

**Appendix D Calibration certificate**

**Appendix D.1 Calibration certificate for Probe(SN 3791)**

|   |  |  |
|---|--|--|
| <p><b>Calibration Laboratory of</b><br/>                 Schmid &amp; Partner<br/>                 Engineering AG<br/>                 Zeughausstrasse 43, 8004 Zurich, Switzerland</p> <p>Accredited by the Swiss Accreditation Service (SAS)<br/>                 The Swiss Accreditation Service is one of the signatories to the EA<br/>                 Multilateral Agreement for the recognition of calibration certificates</p> |  | <p>S Schweizerischer Kalibrierdienst<br/>                 C Service suisse d'étalonnage<br/>                 S Servizio svizzero di taratura<br/>                 S Swiss Calibration Service</p> <p>Accreditation No.: SCS 0106</p> |
| <p>Client: <b>SGS</b><br/>                 Gyeonggi-do, Republic of Korea</p> <p>Certificate No.: <b>EX-3791_May23</b></p>  |  |  |

**CALIBRATION CERTIFICATE**

|                          |   |  |
|--------------------------|---|--|
| Object                   | EX3DV4 - SN:3791  |  |
| Calibration procedure(s) | QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6, QA CAL-25.v8<br>Calibration procedure for dosimetric E-field probes |  |
| Calibration date         | May 23, 2023  |  |

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.  
 All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.  
 Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|-----------------------|
| Power meter NRP2           | SN: 104778       | 30-Mar-23 (No. 217-03804/03805)   | Mar-24                |
| Power sensor NRP-291       | SN: 103344       | 30-Mar-23 (No. 217-03804)         | Mar-24                |
| OCP DAK-3.5 (weighed)      | SN: 1249         | 29-Oct-22 (OCP-DAK3.5-1249_Oct22) | Oct-23                |
| OCP DAK-12                 | SN: 1016         | 29-Oct-22 (OCP-DAK12-1016_Oct22)  | Oct-23                |
| Reference 26 dB Attenuator | SN: DC2552 (rtv) | 30-Mar-23 (No. 217-03809)         | Mar-24                |
| DAE4                       | SN: 860          | 16-Mar-23 (No. DAE5-660_Mar23)    | Mar-24                |
| Reference Probe ESS0V2     | SN: 3013         | 08-Jun-23 (No. ESS-3013_Jun23)    | Jun-24                |

| Secondary Standards     | ID               | Check Date (in house)             | Scheduled Check        |
|-------------------------|------------------|-----------------------------------|------------------------|
| Power meter E4419B      | SN: GB41262074   | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4419A     | SN: NY41409337   | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4419A     | SN: 000110210    | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| HP generator HP 8648C   | SN: US5842US1700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer E8358A | SN: US41093477   | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

|               |               |                       |           |
|---------------|---------------|-----------------------|-----------|
|               | Name          | Function              | Signature |
| Calibrated by | Jeton Kasrati | Laboratory Technician |           |
| Approved by   | Sven Kiltin   | Technical Manager     |           |

Issued: May 24, 2023

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

Accreditation No.: SCS 0106

**Glossary**

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

**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 4MHz to 10 GHz)", October 2020.
- b) KDB 885864, "SAR Measurement Requirements for 100MHz to 6GHz"

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>: Assessed for E-field polarization  $\theta = 0$  ( $f < 905\text{MHz}$  in TEM-cell;  $f > 1800\text{MHz}$ : R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM<sub>(x,y,z)</sub> = NORM<sub>x,y,z</sub> \* 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.
- DCP<sub>x,y,z</sub>: 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
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; W<sub>(x,y,z)</sub>: 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  $f \leq 800\text{MHz}$ ) and inside waveguide using analytical field distributions based on power measurements for  $f > 800\text{MHz}$ . The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* 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  $\pm 50\text{MHz}$  to  $\pm 100\text{MHz}$ .
- Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

EX3DV4 - SN:3791

May 23, 2023

**Parameters of Probe: EX3DV4 - SN:3791**

**Basic Calibration Parameters**

|                                       | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|---------------------------------------|----------|----------|----------|-------------|
| Norm ( $\mu V/(V/m)^2$ ) <sup>A</sup> | 0.54     | 0.52     | 0.51     | ±10.1%      |
| DCP ( $\mu V$ ) <sup>B</sup>          | 102.0    | 101.5    | 101.0    | ±4.7%       |

**Calibration Results for Modulation Response**

| UID   | Communication System Name   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | C     | D<br>dB | VR<br>mV | Max<br>dev. | Max<br>Unc <sup>C</sup><br>k = 2 |       |
|-------|-----------------------------|---------|------------------------|-------|---------|----------|-------------|----------------------------------|-------|
| 0     | CW                          | X       | 0.00                   | 0.00  | 1.00    | 0.00     | 150.1       | ±2.2%                            | ±4.7% |
|       |                             | Y       | 0.00                   | 0.00  | 1.00    |          | 141.8       |                                  |       |
|       |                             | Z       | 0.00                   | 0.00  | 1.00    |          | 144.5       |                                  |       |
| 10352 | Pulse Waveform (200Hz, 10%) | X       | 20.00                  | 82.83 | 23.15   | 10.00    | 80.0        | ±3.2%                            | ±9.6% |
|       |                             | Y       | 20.00                  | 83.04 | 23.07   |          | 80.0        |                                  |       |
|       |                             | Z       | 20.00                  | 81.96 | 22.27   |          | 80.0        |                                  |       |
| 10353 | Pulse Waveform (200Hz, 20%) | X       | 20.00                  | 82.88 | 21.38   | 6.99     | 80.0        | ±1.9%                            | ±9.6% |
|       |                             | Y       | 20.00                  | 82.64 | 21.62   |          | 80.0        |                                  |       |
|       |                             | Z       | 20.00                  | 81.55 | 20.93   |          | 80.0        |                                  |       |
| 10354 | Pulse Waveform (200Hz, 40%) | X       | 20.00                  | 84.34 | 21.51   | 3.88     | 95.0        | ±1.3%                            | ±9.6% |
|       |                             | Y       | 20.00                  | 83.47 | 20.46   |          | 95.0        |                                  |       |
|       |                             | Z       | 20.00                  | 82.85 | 20.55   |          | 95.0        |                                  |       |
| 10355 | Pulse Waveform (200Hz, 60%) | X       | 20.00                  | 88.17 | 21.64   | 2.22     | 120.0       | ±1.3%                            | ±9.6% |
|       |                             | Y       | 20.00                  | 84.36 | 18.43   |          | 120.0       |                                  |       |
|       |                             | Z       | 20.00                  | 84.47 | 18.87   |          | 120.0       |                                  |       |
| 10387 | QPSK Waveform, 1 MHz        | X       | 1.55                   | 65.02 | 14.22   | 1.00     | 150.0       | ±3.1%                            | ±9.6% |
|       |                             | Y       | 1.46                   | 64.35 | 13.58   |          | 150.0       |                                  |       |
|       |                             | Z       | 1.58                   | 65.46 | 14.37   |          | 150.0       |                                  |       |
| 10388 | QPSK Waveform, 10 MHz       | X       | 2.21                   | 67.89 | 15.45   | 0.00     | 150.0       | ±1.0%                            | ±9.6% |
|       |                             | Y       | 1.84                   | 65.94 | 14.40   |          | 150.0       |                                  |       |
|       |                             | Z       | 2.11                   | 67.25 | 15.16   |          | 150.0       |                                  |       |
| 10396 | 64-QAM Waveform, 100 kHz    | X       | 3.34                   | 72.24 | 19.50   | 3.01     | 150.0       | ±0.7%                            | ±9.6% |
|       |                             | Y       | 3.05                   | 70.35 | 18.63   |          | 150.0       |                                  |       |
|       |                             | Z       | 3.10                   | 70.91 | 18.91   |          | 150.0       |                                  |       |
| 10399 | 64-QAM Waveform, 40 MHz     | X       | 3.37                   | 66.53 | 15.34   | 0.00     | 150.0       | ±2.5%                            | ±9.6% |
|       |                             | Y       | 3.30                   | 65.14 | 15.08   |          | 150.0       |                                  |       |
|       |                             | Z       | 3.43                   | 66.80 | 15.50   |          | 150.0       |                                  |       |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz   | X       | 4.73                   | 65.27 | 15.21   | 0.00     | 150.0       | ±4.5%                            | ±9.6% |
|       |                             | Y       | 4.69                   | 65.13 | 15.14   |          | 150.0       |                                  |       |
|       |                             | Z       | 4.80                   | 65.51 | 15.40   |          | 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%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sub>2</sub>-field uncertainty inside TSI. (see Pages 5 and 6).  
<sup>B</sup> Linearity parameter uncertainty for maximum specified field strength.  
<sup>C</sup> 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:3791

May 23, 2023

**Parameters of Probe: EX3DV4 - SN:3791**

**Sensor Model Parameters**

|   | C1<br>#F | C2<br>#F | $\alpha$<br>V <sup>-1</sup> | T1<br>ms V <sup>-2</sup> | T2<br>ms V <sup>-1</sup> | T3<br>ms | T4<br>V <sup>-2</sup> | T5<br>V <sup>-1</sup> | T6   |
|---|----------|----------|-----------------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|------|
| x | 44.9     | 328.61   | 34.25                       | 26.18                    | 0.85                     | 5.10     | 1.59                  | 0.27                  | 1.01 |
| y | 43.1     | 321.65   | 35.39                       | 23.26                    | 0.92                     | 5.10     | 0.89                  | 0.40                  | 1.01 |
| z | 44.3     | 331.02   | 35.44                       | 25.96                    | 0.67                     | 5.10     | 0.96                  | 0.37                  | 1.01 |

**Other Probe Parameters**

|   |            |
|---|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle                               | -109.5°    |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

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



EX3DV4 - SN:3791

May 23, 2023

**Parameters of Probe: EX3DV4 - SN:3791**

**Calibration Parameter Determined in Head Tissue Simulating Media**

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity <sup>F</sup> (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.88                            | 9.00    | 9.00    | 9.00    | 0.52               | 0.80                    | ±12.0%    |
| 825                  | 41.5                               | 0.90                            | 8.79    | 8.79    | 8.79    | 0.26               | 1.21                    | ±12.0%    |
| 900                  | 41.5                               | 0.97                            | 8.48    | 8.48    | 8.48    | 0.37               | 0.91                    | ±12.0%    |
| 1750                 | 40.1                               | 1.37                            | 7.60    | 7.60    | 7.60    | 0.40               | 0.66                    | ±12.0%    |
| 1900                 | 40.0                               | 1.40                            | 7.41    | 7.41    | 7.41    | 0.31               | 0.66                    | ±12.0%    |
| 1950                 | 40.0                               | 1.40                            | 7.28    | 7.28    | 7.28    | 0.32               | 0.66                    | ±12.0%    |
| 2300                 | 39.5                               | 1.67                            | 6.92    | 6.92    | 6.92    | 0.35               | 0.90                    | ±12.0%    |
| 2450                 | 39.2                               | 1.80                            | 6.80    | 6.80    | 6.80    | 0.41               | 0.90                    | ±12.0%    |
| 2600                 | 39.0                               | 1.96                            | 6.72    | 6.72    | 6.72    | 0.28               | 0.90                    | ±12.0%    |
| 3000                 | 38.2                               | 2.71                            | 6.30    | 6.30    | 6.30    | 0.30               | 1.30                    | ±14.0%    |
| 3600                 | 37.9                               | 2.91                            | 6.25    | 6.25    | 6.25    | 0.35               | 1.30                    | ±14.0%    |
| 3700                 | 37.7                               | 3.12                            | 6.19    | 6.19    | 6.19    | 0.35               | 1.30                    | ±14.0%    |
| 3900                 | 37.5                               | 3.32                            | 5.98    | 5.98    | 5.98    | 0.35               | 1.50                    | ±14.0%    |
| 4100                 | 37.2                               | 3.53                            | 5.91    | 5.91    | 5.91    | 0.35               | 1.50                    | ±14.0%    |
| 5200                 | 36.0                               | 4.66                            | 4.89    | 4.89    | 4.89    | 0.40               | 1.80                    | ±14.0%    |
| 5300                 | 35.9                               | 4.76                            | 4.74    | 4.74    | 4.74    | 0.40               | 1.80                    | ±14.0%    |
| 5500                 | 35.6                               | 4.96                            | 4.61    | 4.61    | 4.61    | 0.40               | 1.80                    | ±14.0%    |
| 5600                 | 35.5                               | 5.07                            | 4.52    | 4.52    | 4.52    | 0.40               | 1.80                    | ±14.0%    |
| 5800                 | 35.3                               | 5.27                            | 4.49    | 4.49    | 4.49    | 0.40               | 1.80                    | ±14.0%    |

<sup>C</sup> Frequency validity above 300 MHz of ±100 MHz only applies for DAS7 v1.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±12, 25, 40, 50 and 70 MHz for ConvF assessments at 35, 64, 126, 150 and 220 MHz respectively. Validity of ConvF assessed at 0 MHz is 4-8 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon'$  and  $\sigma$  by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 12.1% for 3 - 6 GHz.

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



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EX3DV4 - SN:3791

May 23, 2023

**Parameters of Probe: EX3DV4 - SN:3791**

**Calibration Parameter Determined in Head Tissue Simulating Media**

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity <sup>F</sup> (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 6500                 | 34.5                               | 8.07                            | 5.00    | 5.00    | 5.00    | 0.20               | 2.50                    | ±18.6%    |

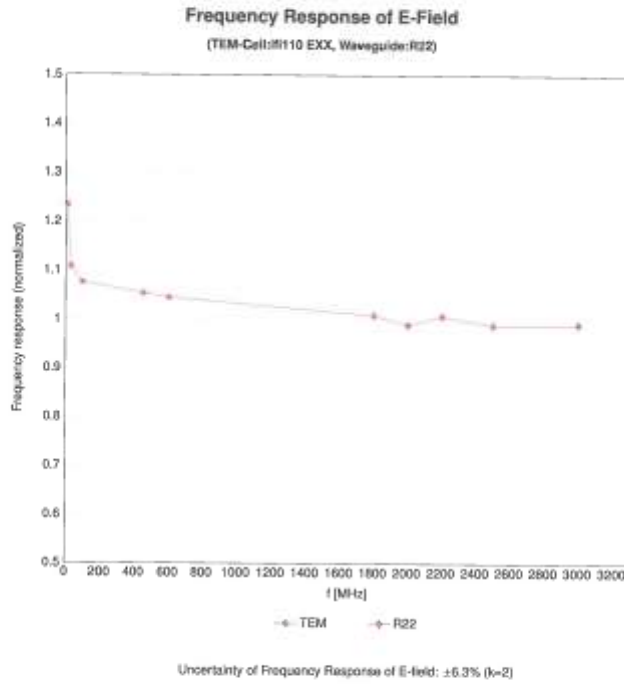
<sup>C</sup> Frequency validity at 6.5 GHz is ~900~1700 MHz, and ~700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon'$  and  $\sigma$  by less than  $\pm 10\%$  from the target values (typically better than  $\pm 8\%$ ) and are valid for TSL with deviations of up to  $\pm 10\%$ .

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

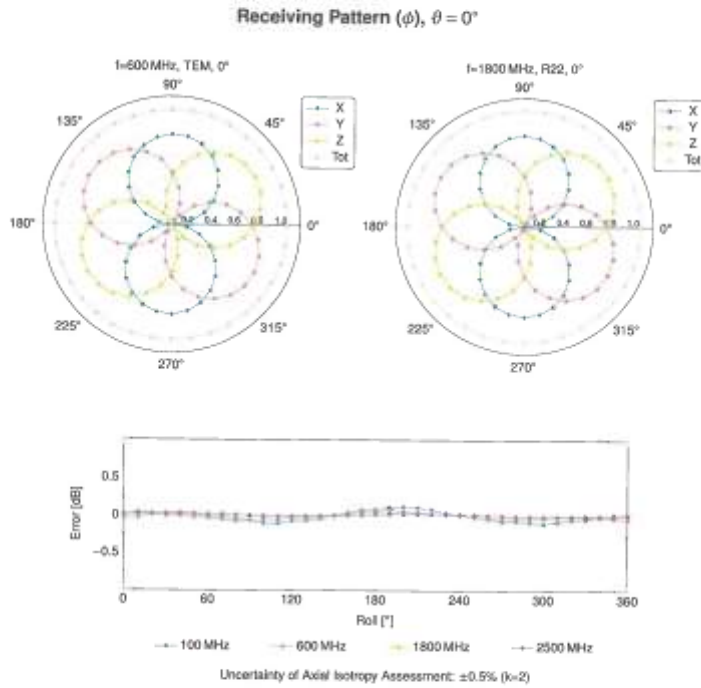
EX30M4 - SN:3791

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EX3DN4 - SN:3791

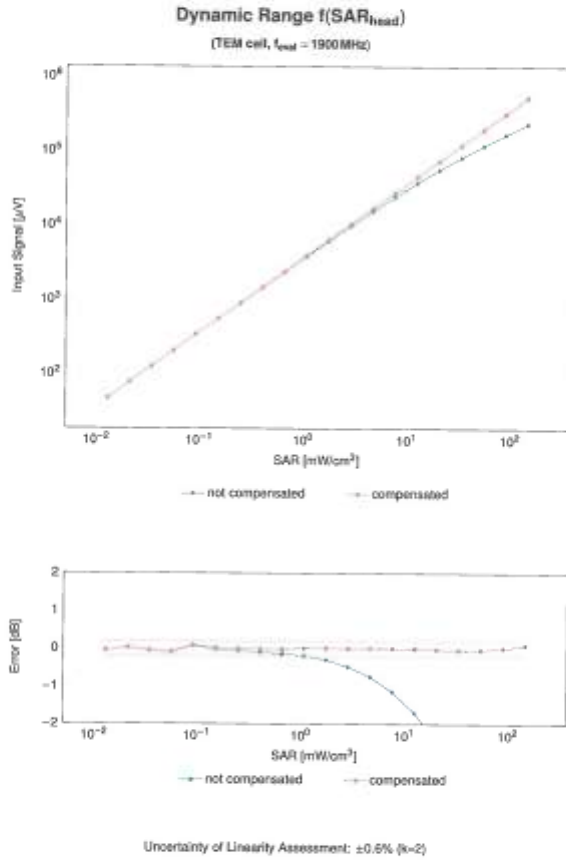
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EX3DW4 - SN:3791

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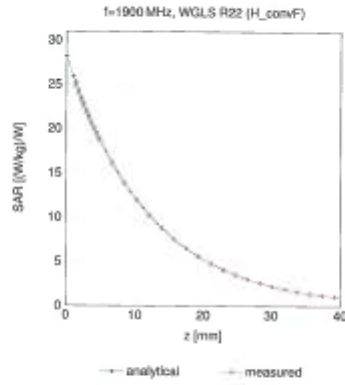
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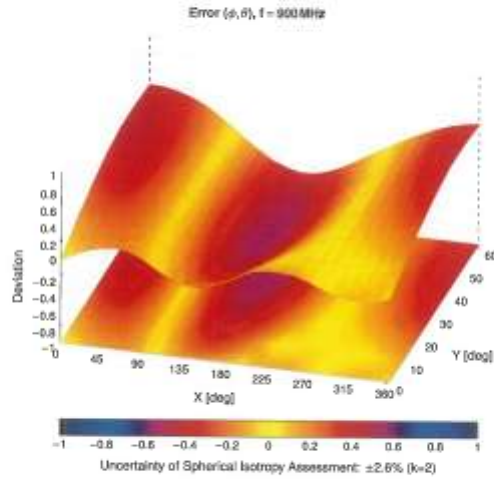
EXSDM4 - SN-3791

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**Conversion Factor Assessment**



**Deviation from Isotropy in Liquid**





EX3DW4 - SN:3791

May 23, 2023

Appendix: Modulation Calibration Parameters

| UID   | Rev | Communication System Name                          | Group     | PAR (dB) | Unc <sup>k</sup> k = 2 |
|-------|-----|--|-----------|----------|------------------------|
| 0     |     | CW   | CW        | 0.00     | ±1.7                   |
| 10103 | CAB | SAR Validation (Square, 100ma, 10ma)               | Test      | 10.00    | ±0.0                   |
| 10101 | CAC | UMTS-FDD (WCDMA)                                   | WCDMA     | 2.91     | ±0.0                   |
| 10102 | CAB | IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps)             | WLAN      | 1.87     | ±0.0                   |
| 10103 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 6Mbps)        | WLAN      | 2.46     | ±0.0                   |
| 10201 | DAC | GSM-FDD (TDMA, GMSK)                               | GSM       | 9.39     | ±0.0                   |
| 10202 | DAC | GPRS-FDD (TDMA, GMSK, TN 0)                        | GSM       | 9.57     | ±0.0                   |
| 10203 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                      | GSM       | 9.58     | ±0.0                   |
| 10204 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)                    | GSM       | 12.02    | ±0.0                   |
| 10205 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                        | GSM       | 9.55     | ±0.0                   |
| 10206 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                      | GSM       | 4.80     | ±0.0                   |
| 10207 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)                    | GSM       | 3.95     | ±0.0                   |
| 10208 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)                  | GSM       | 3.70     | ±0.0                   |
| 10209 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)                    | GSM       | 5.30     | ±0.0                   |
| 10000 | CAA | IEEE 802.15.1 Bluetooth (QPSK, DH1)                | Bluetooth | 1.67     | ±0.0                   |
| 10001 | CAA | IEEE 802.15.1 Bluetooth (QPSK, DH2)                | Bluetooth | 1.16     | ±0.0                   |
| 10002 | CAA | IEEE 802.15.1 Bluetooth (QPSK, DH3)                | Bluetooth | 1.16     | ±0.0                   |
| 10003 | CAA | IEEE 802.15.1 Bluetooth (14-DQPSK, DH1)            | Bluetooth | 7.74     | ±0.0                   |
| 10004 | CAA | IEEE 802.15.1 Bluetooth (14-DQPSK, DH2)            | Bluetooth | 4.23     | ±0.0                   |
| 10005 | CAA | IEEE 802.15.1 Bluetooth (14-DQPSK, DH3)            | Bluetooth | 3.65     | ±0.0                   |
| 10006 | CAA | IEEE 802.15.1 Bluetooth (0-DPSK, DH1)              | Bluetooth | 8.07     | ±0.0                   |
| 10007 | CAA | IEEE 802.15.1 Bluetooth (0-DPSK, DH2)              | Bluetooth | 4.77     | ±0.0                   |
| 10008 | CAA | IEEE 802.15.1 Bluetooth (0-DPSK, DH3)              | Bluetooth | 4.10     | ±0.0                   |
| 10105 | CAB | CDMA2000 (1xRTT, RC1)                              | CDMA2000  | 4.57     | ±0.0                   |
| 10104 | CAB | IS-94 / IS-136 FDD (TDMA/FDD, PSK-DQPSK, Fullrate) | AMPS      | 7.78     | ±0.0                   |
| 10104 | CAA | IS-94/IS-136 FDD (TDMA, FM)                        | AMPS      | 0.00     | ±0.0                   |
| 10108 | CAA | DECT (CO, TDMA/FDM, QPSK, Full Slot, 24)           | DECT      | 13.00    | ±0.0                   |
| 10109 | CAA | DECT (CO, TDMA/FDM, QPSK, Double Slot, 12)         | DECT      | 93.79    | ±0.0                   |
| 10106 | CAA | UMTS-TDD (HSPA, 1.28Mbps)                          | TD-SCDMA  | 11.25    | ±0.0                   |
| 10107 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                  | GSM       | 9.52     | ±0.0                   |
| 10108 | CAB | IEEE 802.11b WiFi 2.4GHz (DSSS, 2Mbps)             | WLAN      | 2.12     | ±0.0                   |
| 10109 | CAB | IEEE 802.11b WiFi 2.4GHz (DSSS, 5.5Mbps)           | WLAN      | 2.83     | ±0.0                   |
| 10110 | CAB | IEEE 802.11b WiFi 2.4GHz (DSSS, 11Mbps)            | WLAN      | 3.60     | ±0.0                   |
| 10102 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 6Mbps)             | WLAN      | 8.88     | ±0.0                   |
| 10103 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 9Mbps)             | WLAN      | 8.93     | ±0.0                   |
| 10104 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 12Mbps)            | WLAN      | 9.09     | ±0.0                   |
| 10105 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 18Mbps)            | WLAN      | 9.00     | ±0.0                   |
| 10106 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 24Mbps)            | WLAN      | 9.28     | ±0.0                   |
| 10107 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 30Mbps)            | WLAN      | 10.24    | ±0.0                   |
| 10108 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 48Mbps)            | WLAN      | 10.56    | ±0.0                   |
| 10109 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 54Mbps)            | WLAN      | 9.03     | ±0.0                   |
| 10101 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 9Mbps)        | WLAN      | 9.02     | ±0.0                   |
| 10102 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 12Mbps)       | WLAN      | 9.94     | ±0.0                   |
| 10103 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 18Mbps)       | WLAN      | 9.94     | ±0.0                   |
| 10104 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 24Mbps)       | WLAN      | 10.30    | ±0.0                   |
| 10105 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 26Mbps)       | WLAN      | 10.77    | ±0.0                   |
| 10106 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 48Mbps)       | WLAN      | 10.94    | ±0.0                   |
| 10107 | CAB | IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 54Mbps)       | WLAN      | 11.00    | ±0.0                   |
| 10108 | CAB | CDMA2000 (1xRTT, RC3)                              | CDMA2000  | 4.77     | ±0.0                   |
| 10109 | CAB | IS-94 / IS-136 FDD (TDMA/FDD, PSK-DQPSK, Fullrate) | AMPS      | 3.97     | ±0.0                   |
| 10101 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                      | GSM       | 2.56     | ±0.0                   |
| 10102 | CAC | UMTS-FDD (HSPA)                                    | WCDMA     | 3.88     | ±0.0                   |
| 10103 | CAC | UMTS-FDD (HSPA, Subcat 2)                          | WCDMA     | 3.88     | ±0.0                   |
| 10104 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                      | GSM       | 9.55     | ±0.0                   |
| 10105 | CAT | LTE-FDD (SC-FDMA, 100% RB, 20MHz, QPSK)            | LTE-FDD   | 5.87     | ±0.0                   |
| 10106 | CAT | LTE-FDD (SC-FDMA, 100% RB, 20MHz, 16-QAM)          | LTE-FDD   | 6.42     | ±0.0                   |
| 10107 | CAT | LTE-FDD (SC-FDMA, 100% RB, 20MHz, 64-QAM)          | LTE-FDD   | 6.80     | ±0.0                   |
| 10108 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20MHz, QPSK)            | LTE-TDD   | 9.29     | ±0.0                   |
| 10109 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM)          | LTE-TDD   | 9.97     | ±0.0                   |
| 10110 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM)          | LTE-TDD   | 10.01    | ±0.0                   |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10MHz, QPSK)            | LTE-FDD   | 5.30     | ±0.0                   |
| 10112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10MHz, 16-QAM)          | LTE-FDD   | 6.43     | ±0.0                   |
| 10113 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10MHz, 64-QAM)          | LTE-FDD   | 5.75     | ±0.0                   |
| 10114 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)           | LTE-FDD   | 6.64     | ±0.0                   |

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| UID   | Rev | Communication System Name                      | Group   | FAR (%) | unc# k = 2 |
|-------|-----|--|---------|---------|------------|
| 10112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10MHz, 64-QAM)      | LTE-FDD | 6.58    | ±0.6       |
| 10113 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)       | LTE-FDD | 6.62    | ±0.6       |
| 10114 | CAD | IEEE 802.11n (HT Greenfield, 13.5Mbps, BPSK)   | WLAN    | 8.19    | ±0.6       |
| 10115 | CAD | IEEE 802.11n (HT Greenfield, 13.5Mbps, 64-QAM) | WLAN    | 8.44    | ±0.6       |
| 10116 | CAD | IEEE 802.11n (HT Greenfield, 13.5Mbps, 64-QAM) | WLAN    | 8.15    | ±0.6       |
| 10117 | CAD | IEEE 802.11n (HT Mixed, 13.5Mbps, BPSK)        | WLAN    | 8.07    | ±0.6       |
| 10118 | CAD | IEEE 802.11n (HT Mixed, 13.5Mbps, 64-QAM)      | WLAN    | 8.29    | ±0.6       |
| 10119 | CAD | IEEE 802.11n (HT Mixed, 13.5Mbps, 64-QAM)      | WLAN    | 8.13    | ±0.6       |
| 10140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)      | LTE-FDD | 6.49    | ±0.6       |
| 10141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)      | LTE-FDD | 6.93    | ±0.6       |
| 10142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)         | LTE-FDD | 5.73    | ±0.6       |
| 10143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)       | LTE-FDD | 6.25    | ±0.6       |
| 10144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)       | LTE-FDD | 6.65    | ±0.6       |
| 10146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, QPSK)       | LTE-FDD | 5.76    | ±0.6       |
| 10147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM)     | LTE-FDD | 6.41    | ±0.6       |
| 10148 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20MHz, 16-QAM)       | LTE-FDD | 6.72    | ±0.6       |
| 10150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)       | LTE-FDD | 6.60    | ±0.6       |
| 10161 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20MHz, QPSK)         | LTE-TDD | 5.29    | ±0.6       |
| 10162 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM)       | LTE-TDD | 5.90    | ±0.6       |
| 10163 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)       | LTE-TDD | 10.05   | ±0.6       |
| 10164 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10MHz, QPSK)         | LTE-FDD | 5.76    | ±0.6       |
| 10165 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)       | LTE-FDD | 6.43    | ±0.6       |
| 10166 | CAH | LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)          | LTE-FDD | 5.79    | ±0.6       |
| 10167 | CAH | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)        | LTE-FDD | 6.46    | ±0.6       |
| 10168 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10MHz, 64-QAM)       | LTE-FDD | 6.62    | ±0.6       |
| 10169 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)        | LTE-FDD | 6.56    | ±0.6       |
| 10181 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)         | LTE-FDD | 5.32    | ±0.6       |
| 10181 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)       | LTE-FDD | 6.43    | ±0.6       |
| 10182 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)       | LTE-FDD | 6.54    | ±0.6       |
| 10184 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)        | LTE-FDD | 5.48    | ±0.6       |
| 10187 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)      | LTE-FDD | 6.21    | ±0.6       |
| 10188 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM)      | LTE-FDD | 6.79    | ±0.6       |
| 10190 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)           | LTE-FDD | 5.73    | ±0.6       |
| 10190 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)         | LTE-FDD | 6.53    | ±0.6       |
| 10192 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK)           | LTE-TDD | 6.49    | ±0.6       |
| 10192 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)         | LTE-TDD | 9.21    | ±0.6       |
| 10193 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)         | LTE-TDD | 12.48   | ±0.6       |
| 10174 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)         | LTE-TDD | 10.25   | ±0.6       |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK)           | LTE-FDD | 5.75    | ±0.6       |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)         | LTE-FDD | 6.92    | ±0.6       |
| 10177 | CAH | LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)            | LTE-FDD | 5.73    | ±0.6       |
| 10178 | CAH | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)          | LTE-FDD | 6.52    | ±0.6       |
| 10179 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, 64-QAM)         | LTE-FDD | 6.50    | ±0.6       |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)          | LTE-FDD | 6.90    | ±0.6       |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)           | LTE-FDD | 6.50    | ±0.6       |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)         | LTE-FDD | 5.72    | ±0.6       |
| 10183 | AAG | LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)         | LTE-FDD | 6.52    | ±0.6       |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)            | LTE-FDD | 5.75    | ±0.6       |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)          | LTE-FDD | 6.51    | ±0.6       |
| 10186 | AAP | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)          | LTE-FDD | 6.90    | ±0.6       |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, QPSK)          | LTE-FDD | 5.73    | ±0.6       |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)        | LTE-FDD | 6.52    | ±0.6       |
| 10189 | AAG | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)        | LTE-FDD | 6.50    | ±0.6       |
| 10193 | CAD | IEEE 802.11n (HT Greenfield, 6.5Mbps, BPSK)    | WLAN    | 8.06    | ±0.6       |
| 10194 | CAD | IEEE 802.11n (HT Greenfield, 6.5Mbps, 64-QAM)  | WLAN    | 8.12    | ±0.6       |
| 10195 | CAD | IEEE 802.11n (HT Greenfield, 6.5Mbps, 64-QAM)  | WLAN    | 8.16    | ±0.6       |
| 10196 | CAD | IEEE 802.11n (HT Mixed, 6.5Mbps, BPSK)         | WLAN    | 8.15    | ±0.6       |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 6.5Mbps, 64-QAM)       | WLAN    | 8.13    | ±0.6       |
| 10198 | CAD | IEEE 802.11n (HT Mixed, 6.5Mbps, 64-QAM)       | WLAN    | 8.27    | ±0.6       |
| 10219 | CAD | IEEE 802.11n (HT Mixed, 7.5Mbps, BPSK)         | WLAN    | 8.03    | ±0.6       |
| 10220 | CAD | IEEE 802.11n (HT Mixed, 43.3Mbps, 16-QAM)      | WLAN    | 8.13    | ±0.6       |
| 10221 | CAD | IEEE 802.11n (HT Mixed, 72.2Mbps, 64-QAM)      | WLAN    | 8.27    | ±0.6       |
| 10222 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, BPSK)         | WLAN    | 8.36    | ±0.6       |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)       | WLAN    | 8.48    | ±0.6       |
| 10224 | CAD | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)      | WLAN    | 8.95    | ±0.6       |

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| UID   | Rev | Communication System Name  | Group    | PAR (dB) | Sinc <sup>2</sup> k = 3 |
|-------|-----|--|----------|----------|-------------------------|
| 10225 | CAC | UMTS FDD (HSPA+)   | WCDMA    | 5.57     | ±9.6                    |
| 10226 | CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)                          | LTE-FDD  | 9.46     | ±9.6                    |
| 10227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)                          | LTE-TDD  | 10.26    | ±9.6                    |
| 10228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, QPSK)                            | LTE-TDD  | 9.22     | ±9.6                    |
| 10229 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)                            | LTE-TDD  | 9.48     | ±9.6                    |
| 10230 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)                            | LTE-TDD  | 9.48     | ±9.6                    |
| 10231 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK)                              | LTE-TDD  | 10.35    | ±9.6                    |
| 10232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)                            | LTE-TDD  | 9.59     | ±9.6                    |
| 10233 | CAH | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)                            | LTE-TDD  | 9.48     | ±9.6                    |
| 10234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK)                              | LTE-TDD  | 10.25    | ±9.6                    |
| 10235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)                           | LTE-TDD  | 9.21     | ±9.6                    |
| 10236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-QAM)                           | LTE-TDD  | 9.68     | ±9.6                    |
| 10237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK)                             | LTE-TDD  | 10.36    | ±9.6                    |
| 10238 | CAH | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)                           | LTE-TDD  | 9.21     | ±9.6                    |
| 10239 | CAH | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)                           | LTE-TDD  | 9.48     | ±9.6                    |
| 10240 | CAH | LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)                             | LTE-TDD  | 10.26    | ±9.6                    |
| 10241 | CAE | LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)                        | LTE-TDD  | 9.21     | ±9.6                    |
| 10242 | CAE | LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM)                        | LTE-TDD  | 9.82     | ±9.6                    |
| 10243 | CAE | LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)                          | LTE-TDD  | 9.06     | ±9.6                    |
| 10244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)                          | LTE-TDD  | 9.46     | ±9.6                    |
| 10245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)                          | LTE-TDD  | 10.06    | ±9.6                    |
| 10246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)                            | LTE-TDD  | 9.30     | ±9.6                    |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)                          | LTE-TDD  | 9.91     | ±9.6                    |
| 10248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)                          | LTE-TDD  | 10.09    | ±9.6                    |
| 10249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)                            | LTE-TDD  | 9.39     | ±9.6                    |
| 10250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)                         | LTE-TDD  | 9.81     | ±9.6                    |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM)                         | LTE-TDD  | 10.17    | ±9.6                    |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10MHz, QPSK)                           | LTE-TDD  | 9.24     | ±9.6                    |
| 10253 | CAH | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)                         | LTE-TDD  | 9.89     | ±9.6                    |
| 10254 | CAH | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)                         | LTE-TDD  | 10.14    | ±9.6                    |
| 10255 | CAH | LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK)                           | LTE-TDD  | 9.20     | ±9.6                    |
| 10256 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM)                       | LTE-TDD  | 9.98     | ±9.6                    |
| 10257 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM)                       | LTE-TDD  | 10.98    | ±9.6                    |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, QPSK)                         | LTE-TDD  | 9.34     | ±9.6                    |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)                         | LTE-TDD  | 9.98     | ±9.6                    |
| 10260 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)                         | LTE-TDD  | 9.97     | ±9.6                    |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)                           | LTE-TDD  | 9.34     | ±9.6                    |
| 10262 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)                         | LTE-TDD  | 9.60     | ±9.6                    |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)                         | LTE-TDD  | 10.18    | ±9.6                    |
| 10264 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)                           | LTE-TDD  | 9.29     | ±9.6                    |
| 10265 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM)                        | LTE-TDD  | 9.92     | ±9.6                    |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM)                        | LTE-TDD  | 10.07    | ±9.6                    |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)                          | LTE-TDD  | 9.30     | ±9.6                    |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)                        | LTE-TDD  | 10.06    | ±9.6                    |
| 10269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)                        | LTE-TDD  | 10.15    | ±9.6                    |
| 10270 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)                          | LTE-TDD  | 9.58     | ±9.6                    |
| 10274 | CAC | UMTS FDD (HSPA, Scramble 5, SCPP Rate 10)                        | WCDMA    | 4.87     | ±9.6                    |
| 10275 | CAC | UMTS FDD (HSPA, Scramble 5, SCPP Rate 4)                         | WCDMA    | 3.96     | ±9.6                    |
| 10277 | CAA | PHS (QPSK, BW 884MHz, Roll-off 0.5)                              | PHS      | 11.81    | ±9.6                    |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Roll-off 0.35)                             | PHS      | 12.18    | ±9.6                    |
| 10290 | AAB | CDMA2000, RC1, SC06, Full Rate                                   | CDMA2000 | 3.91     | ±9.6                    |
| 10291 | AAB | CDMA2000, RC3, SC06, Full Rate                                   | CDMA2000 | 3.48     | ±9.6                    |
| 10292 | AAB | CDMA2000, RC3, SC02, Full Rate                                   | CDMA2000 | 3.39     | ±9.6                    |
| 10293 | AAB | CDMA2000, RC3, SC00, Full Rate                                   | CDMA2000 | 3.50     | ±9.6                    |
| 10294 | AAB | CDMA2000, RC1, SC00, 1/8th Rate 25.9                             | CDMA2000 | 12.49    | ±9.6                    |
| 10297 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)                            | LTE-FDD  | 5.81     | ±9.6                    |
| 10298 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)                          | LTE-FDD  | 6.78     | ±9.6                    |
| 10299 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)                          | LTE-FDD  | 6.99     | ±9.6                    |
| 10300 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)                          | LTE-FDD  | 6.00     | ±9.6                    |
| 10301 | AAA | IEEE 802.16e WMAX (20-18, 5 ms, 10MHz, QPSK, PUSC)               | WMAX     | 12.03    | ±9.6                    |
| 10302 | AAA | IEEE 802.16e WMAX (20-18, 5 ms, 10MHz, QPSK, 3 CTRL symbols)     | WMAX     | 12.57    | ±9.6                    |
| 10303 | AAA | IEEE 802.16e WMAX (20-18, 5 ms, 10MHz, 64QAM, PUSC)              | WMAX     | 12.62    | ±9.6                    |
| 10304 | AAA | IEEE 802.16e WMAX (20-18, 5 ms, 10MHz, 64QAM, PUSC)              | WMAX     | 11.88    | ±9.6                    |
| 10305 | AAA | IEEE 802.16e WMAX (20-18, 10 ms, 10MHz, 64QAM, PUSC, 10 symbols) | WMAX     | 15.24    | ±9.6                    |
| 10306 | AAA | IEEE 802.16e WMAX (20-18, 10 ms, 10MHz, 64QAM, PUSC, 10 symbols) | WMAX     | 14.67    | ±9.6                    |

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| IRD   | Rev | Communication System Name  | Group    | RRR (dB) | Unc <sup>2</sup> A = 2 |
|-------|-----|--|----------|----------|------------------------|
| 10307 | AAA | IEEE 802.16e WMAX (20-16, 10ms, 10MHz, QPSK, PUSC, 16 symbols)                 | WMAX     | 14.48    | +0.6                   |
| 10308 | AAA | IEEE 802.16e WMAX (20-16, 10ms, 10MHz, 16QAM, PUSC)                            | WMAX     | 14.48    | +0.6                   |
| 10309 | AAA | IEEE 802.16e WMAX (20-16, 10ms, 10MHz, 16QAM, PUSC)                            | WMAX     | 14.58    | +0.6                   |
| 10310 | AAA | IEEE 802.16e WMAX (20-16, 10ms, 10MHz, 16QAM, AMC 2x3, 16 symbols)             | WMAX     | 14.57    | +0.6                   |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)  | LTE-FDD  | 8.98     | +0.6                   |
| 10313 | AAA | TDEN 1-3   | TDEN     | 10.51    | +0.6                   |
| 10314 | AAA | TDEN 1-6   | TDEN     | 10.48    | +0.6                   |
| 10315 | AAE | IEEE 802.11g WiFi 2.4GHz (DSSS, 1Mbps, 90pc duty cycle)                        | WLAN     | 1.71     | +0.6                   |
| 10316 | AAE | IEEE 802.11g WiFi 2.4GHz (ERP-OFDM, 6Mbps, 90pc duty cycle)                    | WLAN     | 3.36     | +0.6                   |
| 10317 | AAE | IEEE 802.11g WiFi 5GHz (OFDM, 6Mbps, 90pc duty cycle)                          | WLAN     | 3.36     | +0.6                   |
| 10322 | AAA | Pulse Waveform (200Hz, 10%)  | Generic  | 10.00    | +0.6                   |
| 10323 | AAA | Pulse Waveform (200Hz, 20%)  | Generic  | 0.99     | +0.6                   |
| 10324 | AAA | Pulse Waveform (200Hz, 40%)  | Generic  | 2.98     | +0.6                   |
| 10325 | AAA | Pulse Waveform (200Hz, 60%)  | Generic  | 2.22     | +0.6                   |
| 10326 | AAA | Pulse Waveform (200Hz, 80%)  | Generic  | 0.97     | +0.6                   |
| 10328 | AAA | QPSK Waveform, 1MHz  | Generic  | 5.10     | +0.6                   |
| 10329 | AAA | 64-QAM Waveform, 100MHz  | Generic  | 6.37     | +0.6                   |
| 10330 | AAA | 64-QAM Waveform, 40MHz   | Generic  | 6.27     | +0.6                   |
| 10400 | AAE | IEEE 802.11ac WiFi (80MHz, 64-QAM, 90pc duty cycle)                            | WLAN     | 8.37     | +0.6                   |
| 10401 | AAE | IEEE 802.11ac WiFi (40MHz, 64-QAM, 90pc duty cycle)                            | WLAN     | 8.60     | +0.6                   |
| 10402 | AAE | IEEE 802.11ac WiFi (80MHz, 64-QAM, 90pc duty cycle)                            | WLAN     | 8.53     | +0.6                   |
| 10403 | AAE | CDMA2000 (1xEV-DO, Rev. 0)   | CDMA2000 | 3.76     | +0.6                   |
| 10404 | AAE | CDMA2000 (1xEV-DO, Rev. A)   | CDMA2000 | 3.77     | +0.6                   |
| 10406 | AAE | CDMA2000 (1xEV-DO, Rev. A)   | CDMA2000 | 3.77     | +0.6                   |
| 10410 | AAE | LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont=1) | LTE-TDD  | 5.22     | +0.6                   |
| 10414 | AAA | WLAN CSF, 64-QAM, 40MHz  | Generic  | 7.82     | +0.6                   |
| 10416 | AAA | IEEE 802.11n WiFi 2.4GHz (DSSS, 1Mbps, 90pc duty cycle)                        | WLAN     | 8.54     | +0.6                   |
| 10418 | AAA | IEEE 802.11n WiFi 2.4GHz (ERP-OFDM, 6Mbps, 90pc duty cycle)                    | WLAN     | 8.23     | +0.6                   |
| 10417 | AAE | IEEE 802.11n WiFi 5GHz (OFDM, 6Mbps, 90pc duty cycle)                          | WLAN     | 8.23     | +0.6                   |
| 10418 | AAA | IEEE 802.11n WiFi 2.4GHz (DSSS-OFDM, 6Mbps, 90pc duty cycle, Long preamble)    | WLAN     | 8.14     | +0.6                   |
| 10419 | AAA | IEEE 802.11n WiFi 2.4GHz (DSSS-OFDM, 6Mbps, 90pc duty cycle, Short preamble)   | WLAN     | 8.19     | +0.6                   |
| 10422 | AAE | IEEE 802.11n (HT Greenfield, 7.2Mbps, 16-QAM)                                  | WLAN     | 8.32     | +0.6                   |
| 10423 | AAE | IEEE 802.11n (HT Greenfield, 43.3Mbps, 16-QAM)                                 | WLAN     | 8.47     | +0.6                   |
| 10424 | AAE | IEEE 802.11n (HT Greenfield, 72.2Mbps, 64-QAM)                                 | WLAN     | 8.40     | +0.6                   |
| 10425 | AAE | IEEE 802.11n (HT Greenfield, 15Mbps, QPSK)                                     | WLAN     | 8.41     | +0.6                   |
| 10426 | AAE | IEEE 802.11n (HT Greenfield, 30Mbps, 16-QAM)                                   | WLAN     | 8.45     | +0.6                   |
| 10427 | AAE | IEEE 802.11n (HT Greenfield, 100Mbps, 64-QAM)                                  | WLAN     | 8.41     | +0.6                   |
| 10430 | AAE | LTE-FDD (OFDMA, 5MHz, E-TM 3.1)  | LTE-FDD  | 8.26     | +0.6                   |
| 10431 | AAE | LTE-FDD (OFDMA, 10MHz, E-TM 3.1)   | LTE-FDD  | 8.38     | +0.6                   |
| 10432 | AAE | LTE-FDD (OFDMA, 10MHz, E-TM 3.1)   | LTE-FDD  | 8.34     | +0.6                   |
| 10433 | AAE | LTE-FDD (OFDMA, 20MHz, E-TM 3.1)   | LTE-FDD  | 8.34     | +0.6                   |
| 10434 | AAE | W-CDMA (HS Test Model 1, 64-QAM)   | WCDMA    | 6.00     | +0.6                   |
| 10435 | AAE | LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | +0.6                   |
| 10447 | AAE | LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)                                  | LTE-FDD  | 7.56     | +0.6                   |
| 10448 | AAE | LTE-FDD (OFDMA, 10MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.52     | +0.6                   |
| 10449 | AAE | LTE-FDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.51     | +0.6                   |
| 10450 | AAE | LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.48     | +0.6                   |
| 10451 | AAE | W-CDMA (HS Test Model 1, 64-QAM, Clipping 44%)                                 | WCDMA    | 7.56     | +0.6                   |
| 10452 | AAE | Validation (Square, 10ms, 1ms)   | Test     | 10.00    | +0.6                   |
| 10456 | AAE | IEEE 802.11ac WiFi (80MHz, 64-QAM, 90pc duty cycle)                            | WLAN     | 8.63     | +0.6                   |
| 10457 | AAE | UMTS-FDD (DC-HSDPA)  | WCDMA    | 6.62     | +0.6                   |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)   | CDMA2000 | 6.55     | +0.6                   |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)   | CDMA2000 | 6.35     | +0.6                   |
| 10460 | AAE | UMTS-FDD (WCDMA, AMR)  | WCDMA    | 3.39     | +0.6                   |
| 10462 | AAE | LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 7.82     | +0.6                   |
| 10463 | AAE | LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.30     | +0.6                   |
| 10464 | AAE | LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.26     | +0.6                   |
| 10465 | AAE | LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | +0.6                   |
| 10466 | AAE | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | +0.6                   |
| 10467 | AAE | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.37     | +0.6                   |
| 10468 | AAE | LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | +0.6                   |
| 10469 | AAE | LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | +0.6                   |
| 10470 | AAE | LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.30     | +0.6                   |
| 10471 | AAE | LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | +0.6                   |
| 10472 | AAE | LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                | LTE-TDD  | 8.32     | +0.6                   |

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| OID   | Rev | Communication System Name  | Group   | PAR (dB) | Line# k = 2 |
|-------|-----|--|---------|----------|-------------|
| 16432 | AAQ | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.57     | ±0.5        |
| 16473 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2.3.4.7.8.9)       | LTE-TDD | 7.68     | ±0.5        |
| 16474 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.32     | ±0.5        |
| 16475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.57     | ±0.5        |
| 16476 | AAQ | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.32     | ±0.5        |
| 16478 | AAQ | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.57     | ±0.5        |
| 16479 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 7.74     | ±0.5        |
| 16480 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.18     | ±0.5        |
| 16481 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.45     | ±0.5        |
| 16482 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2.3.4.7.8.9)      | LTE-TDD | 7.71     | ±0.5        |
| 16483 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 8.39     | ±0.5        |
| 16484 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 8.47     | ±0.5        |
| 16485 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2.3.4.7.8.9)      | LTE-TDD | 7.59     | ±0.5        |
| 16486 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 8.38     | ±0.5        |
| 16487 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 8.60     | ±0.5        |
| 16488 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 7.70     | ±0.5        |
| 16489 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.54     | ±0.5        |
| 16490 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.31     | ±0.5        |
| 16491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 7.74     | ±0.5        |
| 16492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.41     | ±0.5        |
| 16493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.55     | ±0.5        |
| 16494 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 7.74     | ±0.5        |
| 16495 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.37     | ±0.5        |
| 16496 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.54     | ±0.5        |
| 16497 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 7.67     | ±0.5        |
| 16498 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9) | LTE-TDD | 8.40     | ±0.5        |
| 16499 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9) | LTE-TDD | 8.68     | ±0.5        |
| 16500 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.44     | ±0.5        |
| 16501 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.52     | ±0.5        |
| 16502 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 7.72     | ±0.5        |
| 16503 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2.3.4.7.8.9)     | LTE-TDD | 8.31     | ±0.5        |
| 16504 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)   | LTE-TDD | 8.54     | ±0.5        |
| 16505 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 7.74     | ±0.5        |
| 16506 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.38     | ±0.5        |
| 16507 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.55     | ±0.5        |
| 16508 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 7.99     | ±0.5        |
| 16509 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.49     | ±0.5        |
| 16510 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.51     | ±0.5        |
| 16511 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2.3.4.7.8.9)    | LTE-TDD | 7.74     | ±0.5        |
| 16512 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.42     | ±0.5        |
| 16513 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)  | LTE-TDD | 8.65     | ±0.5        |
| 16514 | AAA | IEEE 802.11b WFI 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)             | WLAN    | 1.58     | ±0.5        |
| 16515 | AAA | IEEE 802.11b WFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)           | WLAN    | 1.57     | ±0.5        |
| 16516 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)               | WLAN    | 1.58     | ±0.5        |
| 16517 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)              | WLAN    | 8.23     | ±0.5        |
| 16518 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)              | WLAN    | 8.29     | ±0.5        |
| 16519 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)              | WLAN    | 8.12     | ±0.5        |
| 16520 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)              | WLAN    | 7.57     | ±0.5        |
| 16521 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)              | WLAN    | 8.45     | ±0.5        |
| 16522 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)              | WLAN    | 8.06     | ±0.5        |
| 16523 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 60 Mbps, 99pc duty cycle)              | WLAN    | 8.27     | ±0.5        |
| 16524 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 66 Mbps, 99pc duty cycle)              | WLAN    | 8.36     | ±0.5        |
| 16525 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 72 Mbps, 99pc duty cycle)              | WLAN    | 8.42     | ±0.5        |
| 16526 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 78 Mbps, 99pc duty cycle)              | WLAN    | 8.21     | ±0.5        |
| 16527 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 84 Mbps, 99pc duty cycle)              | WLAN    | 8.36     | ±0.5        |
| 16528 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 90 Mbps, 99pc duty cycle)              | WLAN    | 8.29     | ±0.5        |
| 16529 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 96 Mbps, 99pc duty cycle)              | WLAN    | 8.43     | ±0.5        |
| 16530 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 102 Mbps, 99pc duty cycle)             | WLAN    | 8.38     | ±0.5        |
| 16531 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 108 Mbps, 99pc duty cycle)             | WLAN    | 8.25     | ±0.5        |
| 16532 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 114 Mbps, 99pc duty cycle)             | WLAN    | 8.39     | ±0.5        |
| 16533 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 120 Mbps, 99pc duty cycle)             | WLAN    | 8.28     | ±0.5        |
| 16534 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 126 Mbps, 99pc duty cycle)             | WLAN    | 8.45     | ±0.5        |
| 16535 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 132 Mbps, 99pc duty cycle)             | WLAN    | 8.33     | ±0.5        |
| 16536 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 138 Mbps, 99pc duty cycle)             | WLAN    | 8.44     | ±0.5        |
| 16537 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 144 Mbps, 99pc duty cycle)             | WLAN    | 8.54     | ±0.5        |
| 16538 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 150 Mbps, 99pc duty cycle)             | WLAN    | 8.54     | ±0.5        |
| 16539 | AAA | IEEE 802.11a WFI 5 GHz (OFDM, 156 Mbps, 99pc duty cycle)             | WLAN    | 8.39     | ±0.5        |

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| IRD   | Rate | Communication System Name                                      | Group | PAR(dB) | Unc <sup>k</sup> k = 2 |
|-------|------|--|-------|---------|------------------------|
| 10541 | AAC  | IEEE 802.11ac WFI 140 MHz, MCS7, 90pc duty cycle)              | WLAN  | 0.46    | +0.0                   |
| 10542 | AAC  | IEEE 802.11ac WFI 140 MHz, MCS8, 90pc duty cycle)              | WLAN  | 0.65    | +0.0                   |
| 10543 | AAC  | IEEE 802.11ac WFI 160 MHz, MCS9, 90pc duty cycle)              | WLAN  | 0.66    | +0.0                   |
| 10544 | AAC  | IEEE 802.11ac WFI 180 MHz, MCS1, 90pc duty cycle)              | WLAN  | 0.47    | +0.0                   |
| 10545 | AAC  | IEEE 802.11ac WFI 200 MHz, MCS2, 90pc duty cycle)              | WLAN  | 0.55    | +0.0                   |
| 10546 | AAC  | IEEE 802.11ac WFI 220 MHz, MCS3, 90pc duty cycle)              | WLAN  | 0.35    | +0.0                   |
| 10547 | AAC  | IEEE 802.11ac WFI 240 MHz, MCS4, 90pc duty cycle)              | WLAN  | 0.40    | +0.0                   |
| 10548 | AAC  | IEEE 802.11ac WFI 260 MHz, MCS4, 90pc duty cycle)              | WLAN  | 0.37    | +0.0                   |
| 10550 | AAC  | IEEE 802.11ac WFI 280 MHz, MCS5, 90pc duty cycle)              | WLAN  | 0.38    | +0.0                   |
| 10551 | AAC  | IEEE 802.11ac WFI 300 MHz, MCS7, 90pc duty cycle)              | WLAN  | 0.50    | +0.0                   |
| 10552 | AAC  | IEEE 802.11ac WFI 320 MHz, MCS8, 90pc duty cycle)              | WLAN  | 0.42    | +0.0                   |
| 10553 | AAC  | IEEE 802.11ac WFI 340 MHz, MCS8, 90pc duty cycle)              | WLAN  | 0.45    | +0.0                   |
| 10554 | AAC  | IEEE 802.11ac WFI 360 MHz, MCS9, 90pc duty cycle)              | WLAN  | 0.48    | +0.0                   |
| 10555 | AAC  | IEEE 802.11ac WFI 380 MHz, MCS1, 90pc duty cycle)              | WLAN  | 0.47    | +0.0                   |
| 10556 | AAC  | IEEE 802.11ac WFI 400 MHz, MCS3, 90pc duty cycle)              | WLAN  | 0.50    | +0.0                   |
| 10557 | AAC  | IEEE 802.11ac WFI 420 MHz, MCS3, 90pc duty cycle)              | WLAN  | 0.52    | +0.0                   |
| 10558 | AAC  | IEEE 802.11ac WFI 440 MHz, MCS4, 90pc duty cycle)              | WLAN  | 0.47    | +0.0                   |
| 10559 | AAC  | IEEE 802.11ac WFI 460 MHz, MCS4, 90pc duty cycle)              | WLAN  | 0.33    | +0.0                   |
| 10561 | AAC  | IEEE 802.11ac WFI 480 MHz, MCS7, 90pc duty cycle)              | WLAN  | 0.56    | +0.0                   |
| 10562 | AAC  | IEEE 802.11ac WFI 500 MHz, MCS8, 90pc duty cycle)              | WLAN  | 0.69    | +0.0                   |
| 10563 | AAC  | IEEE 802.11ac WFI 520 MHz, MCS9, 90pc duty cycle)              | WLAN  | 0.77    | +0.0                   |
| 10564 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | WLAN  | 0.25    | +0.0                   |
| 10565 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN  | 0.45    | +0.0                   |
| 10566 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN  | 0.13    | +0.0                   |
| 10567 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN  | 0.00    | +0.0                   |
| 10568 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN  | 0.37    | +0.0                   |
| 10569 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN  | 0.10    | +0.0                   |
| 10570 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN  | 0.30    | +0.0                   |
| 10571 | AAA  | IEEE 802.11b WFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | WLAN  | 1.29    | +0.0                   |
| 10572 | AAA  | IEEE 802.11b WFI 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | WLAN  | 1.39    | +0.0                   |
| 10573 | AAA  | IEEE 802.11b WFI 2.4 GHz (DSSS, 3.5 Mbps, 90pc duty cycle)     | WLAN  | 1.98    | +0.0                   |
| 10574 | AAA  | IEEE 802.11b WFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | WLAN  | 1.99    | +0.0                   |
| 10575 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | WLAN  | 0.59    | +0.0                   |
| 10576 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | WLAN  | 0.60    | +0.0                   |
| 10577 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN  | 0.70    | +0.0                   |
| 10578 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN  | 0.49    | +0.0                   |
| 10579 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN  | 0.36    | +0.0                   |
| 10580 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN  | 0.70    | +0.0                   |
| 10581 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN  | 0.25    | +0.0                   |
| 10582 | AAA  | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN  | 0.67    | +0.0                   |
| 10583 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)         | WLAN  | 0.58    | +0.0                   |
| 10584 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)         | WLAN  | 0.60    | +0.0                   |
| 10585 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)        | WLAN  | 0.70    | +0.0                   |
| 10586 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)        | WLAN  | 0.49    | +0.0                   |
| 10587 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)        | WLAN  | 0.38    | +0.0                   |
| 10588 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)        | WLAN  | 0.78    | +0.0                   |
| 10589 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)        | WLAN  | 0.35    | +0.0                   |
| 10590 | AAC  | IEEE 802.11a WFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)        | WLAN  | 0.67    | +0.0                   |
| 10591 | AAC  | IEEE 802.11n HT Mixed, 20 MHz, MCS0, 90pc duty cycle)          | WLAN  | 0.63    | +0.0                   |
| 10592 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS1, 90pc duty cycle)          | WLAN  | 0.79    | +0.0                   |
| 10593 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS2, 90pc duty cycle)          | WLAN  | 0.84    | +0.0                   |
| 10594 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS3, 90pc duty cycle)          | WLAN  | 0.74    | +0.0                   |
| 10595 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS4, 90pc duty cycle)          | WLAN  | 0.74    | +0.0                   |
| 10596 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS5, 90pc duty cycle)          | WLAN  | 0.71    | +0.0                   |
| 10597 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS6, 90pc duty cycle)          | WLAN  | 0.72    | +0.0                   |
| 10598 | AAC  | IEEE 802.11n HT Mixed, 25 MHz, MCS7, 90pc duty cycle)          | WLAN  | 0.90    | +0.0                   |
| 10599 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS0, 90pc duty cycle)          | WLAN  | 0.39    | +0.0                   |
| 10600 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS1, 90pc duty cycle)          | WLAN  | 0.80    | +0.0                   |
| 10601 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS2, 90pc duty cycle)          | WLAN  | 0.80    | +0.0                   |
| 10602 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS3, 90pc duty cycle)          | WLAN  | 0.94    | +0.0                   |
| 10603 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS4, 90pc duty cycle)          | WLAN  | 0.93    | +0.0                   |
| 10604 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS5, 90pc duty cycle)          | WLAN  | 0.76    | +0.0                   |
| 10605 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS6, 90pc duty cycle)          | WLAN  | 0.97    | +0.0                   |
| 10606 | AAC  | IEEE 802.11n HT Mixed, 40 MHz, MCS7, 90pc duty cycle)          | WLAN  | 0.82    | +0.0                   |
| 10607 | AAC  | IEEE 802.11ac WFI 25 MHz, MCS0, 90pc duty cycle)               | WLAN  | 0.64    | +0.0                   |
| 10608 | AAC  | IEEE 802.11ac WFI 25 MHz, MCS1, 90pc duty cycle)               | WLAN  | 0.77    | +0.0                   |

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| UID   | Rev | Communication System Name                               | Group     | PAR (dB) | Unc <sup>2</sup> k = 2 |
|-------|-----|---|-----------|----------|------------------------|
| 10609 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS9, 90pc duty cycle)      | WLAN      | 8.67     | +0.6                   |
| 10610 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS9, 90pc duty cycle)      | WLAN      | 8.78     | +0.6                   |
| 10611 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)      | WLAN      | 8.79     | +0.6                   |
| 10612 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)      | WLAN      | 8.77     | +0.6                   |
| 10613 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)      | WLAN      | 8.94     | +0.6                   |
| 10614 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)      | WLAN      | 8.94     | +0.6                   |
| 10615 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)      | WLAN      | 8.82     | +0.6                   |
| 10616 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS9, 90pc duty cycle)      | WLAN      | 8.82     | +0.6                   |
| 10617 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)      | WLAN      | 8.81     | +0.6                   |
| 10618 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)      | WLAN      | 8.58     | +0.6                   |
| 10619 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)      | WLAN      | 8.86     | +0.6                   |
| 10620 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)      | WLAN      | 8.87     | +0.6                   |
| 10621 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)      | WLAN      | 8.77     | +0.6                   |
| 10622 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)      | WLAN      | 8.68     | +0.6                   |
| 10623 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)      | WLAN      | 8.69     | +0.6                   |
| 10624 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)      | WLAN      | 8.96     | +0.6                   |
| 10625 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)      | WLAN      | 8.96     | +0.6                   |
| 10626 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)      | WLAN      | 8.83     | +0.6                   |
| 10627 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)      | WLAN      | 8.68     | +0.6                   |
| 10628 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)      | WLAN      | 8.71     | +0.6                   |
| 10629 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)      | WLAN      | 8.85     | +0.6                   |
| 10630 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)      | WLAN      | 8.72     | +0.6                   |
| 10631 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)      | WLAN      | 8.81     | +0.6                   |
| 10632 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)      | WLAN      | 8.74     | +0.6                   |
| 10633 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)      | WLAN      | 8.83     | +0.6                   |
| 10634 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)      | WLAN      | 8.90     | +0.6                   |
| 10635 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)      | WLAN      | 8.81     | +0.6                   |
| 10636 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)     | WLAN      | 8.82     | +0.6                   |
| 10637 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)     | WLAN      | 8.79     | +0.6                   |
| 10638 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.99     | +0.6                   |
| 10639 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.85     | +0.6                   |
| 10640 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.93     | +0.6                   |
| 10641 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)     | WLAN      | 9.06     | +0.6                   |
| 10642 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)     | WLAN      | 9.06     | +0.6                   |
| 10643 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.89     | +0.6                   |
| 10644 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)     | WLAN      | 9.05     | +0.6                   |
| 10645 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)     | WLAN      | 9.11     | +0.6                   |
| 10646 | AAR | LTE-TDD (SC-FDMA, 1 PRB, 5 MHz, QPSK, UL, Subframe=2,7) | LTE-TDD   | 11.96    | +0.6                   |
| 10647 | AAC | LTE-TDD (SC-FDMA, 1 PRB, 5 MHz, QPSK, UL, Subframe=2,7) | LTE-TDD   | 11.96    | +0.6                   |
| 10648 | AAA | CDMA2000(1x Advancd)                                    | CDMA2000  | 3.45     | +0.6                   |
| 10649 | AAC | LTE-TDD (QPSK, 5 MHz, E-TM 3.1, Clipping 44%)           | LTE-TDD   | 6.51     | +0.6                   |
| 10650 | AAC | LTE-TDD (QPSK, 10 MHz, E-TM 3.1, Clipping 44%)          | LTE-TDD   | 7.42     | +0.6                   |
| 10651 | AAC | LTE-TDD (QPSK, 15 MHz, E-TM 3.1, Clipping 44%)          | LTE-TDD   | 8.86     | +0.6                   |
| 10652 | AAC | LTE-TDD (QPSK, 20 MHz, E-TM 3.1, Clipping 44%)          | LTE-TDD   | 7.21     | +0.6                   |
| 10653 | AAB | Pulse Waveform (200Hz, 10%)                             | Test      | 10.00    | +0.6                   |
| 10654 | AAB | Pulse Waveform (200Hz, 20%)                             | Test      | 6.99     | +0.6                   |
| 10655 | AAB | Pulse Waveform (200Hz, 30%)                             | Test      | 3.98     | +0.6                   |
| 10656 | AAB | Pulse Waveform (200Hz, 40%)                             | Test      | 2.22     | +0.6                   |
| 10657 | AAB | Pulse Waveform (200Hz, 50%)                             | Test      | 0.97     | +0.6                   |
| 10675 | AAA | Bluetooth Low Energy                                    | Bluetooth | 2.19     | +0.6                   |
| 10676 | AAC | IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)           | WLAN      | 9.09     | +0.6                   |
| 10677 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)           | WLAN      | 8.57     | +0.6                   |
| 10678 | AAC | IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)           | WLAN      | 8.78     | +0.6                   |
| 10679 | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)           | WLAN      | 8.74     | +0.6                   |
| 10680 | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)           | WLAN      | 8.90     | +0.6                   |
| 10681 | AAC | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)           | WLAN      | 8.77     | +0.6                   |
| 10682 | AAC | IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)           | WLAN      | 8.75     | +0.6                   |
| 10683 | AAC | IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)           | WLAN      | 8.98     | +0.6                   |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)           | WLAN      | 8.80     | +0.6                   |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)           | WLAN      | 8.82     | +0.6                   |
| 10686 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)           | WLAN      | 8.82     | +0.6                   |
| 10687 | AAC | IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)           | WLAN      | 8.26     | +0.6                   |
| 10688 | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)           | WLAN      | 8.33     | +0.6                   |
| 10689 | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)           | WLAN      | 8.28     | +0.6                   |



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| ID    | Rev | Communication System Name                      | Group | PAR (dB) | Unc <sup>a</sup> k = 2 |
|-------|-----|--|-------|----------|------------------------|
| 10887 | AAC | IEEE 802.11ax (30MHz), MCS4, 99pc duty cycle)  | WLAN  | 0.45     | ±0.6                   |
| 10888 | AAC | IEEE 802.11ax (30MHz), MCS5, 99pc duty cycle)  | WLAN  | 0.39     | ±0.6                   |
| 10889 | AAC | IEEE 802.11ax (30MHz), MCS6, 99pc duty cycle)  | WLAN  | 0.95     | ±0.6                   |
| 10890 | AAC | IEEE 802.11ax (30MHz), MCS7, 99pc duty cycle)  | WLAN  | 0.29     | ±0.6                   |
| 10891 | AAC | IEEE 802.11ax (30MHz), MCS8, 99pc duty cycle)  | WLAN  | 0.25     | ±0.6                   |
| 10892 | AAC | IEEE 802.11ax (30MHz), MCS9, 99pc duty cycle)  | WLAN  | 0.29     | ±0.6                   |
| 10893 | AAC | IEEE 802.11ax (30MHz), MCS10, 99pc duty cycle) | WLAN  | 0.57     | ±0.6                   |
| 10894 | AAC | IEEE 802.11ax (30MHz), MCS11, 99pc duty cycle) | WLAN  | 0.70     | ±0.6                   |
| 10895 | AAC | IEEE 802.11ax (40MHz), MCS0, 99pc duty cycle)  | WLAN  | 0.91     | ±0.6                   |
| 10896 | AAC | IEEE 802.11ax (40MHz), MCS1, 99pc duty cycle)  | WLAN  | 0.61     | ±0.6                   |
| 10897 | AAC | IEEE 802.11ax (40MHz), MCS2, 99pc duty cycle)  | WLAN  | 0.69     | ±0.6                   |
| 10898 | AAC | IEEE 802.11ax (40MHz), MCS3, 99pc duty cycle)  | WLAN  | 0.82     | ±0.6                   |
| 10899 | AAC | IEEE 802.11ax (40MHz), MCS4, 99pc duty cycle)  | WLAN  | 0.73     | ±0.6                   |
| 10900 | AAC | IEEE 802.11ax (40MHz), MCS5, 99pc duty cycle)  | WLAN  | 0.86     | ±0.6                   |
| 10901 | AAC | IEEE 802.11ax (40MHz), MCS6, 99pc duty cycle)  | WLAN  | 0.76     | ±0.6                   |
| 10902 | AAC | IEEE 802.11ax (40MHz), MCS7, 99pc duty cycle)  | WLAN  | 0.82     | ±0.6                   |
| 10903 | AAC | IEEE 802.11ax (40MHz), MCS8, 99pc duty cycle)  | WLAN  | 0.58     | ±0.6                   |
| 10904 | AAC | IEEE 802.11ax (40MHz), MCS9, 99pc duty cycle)  | WLAN  | 0.69     | ±0.6                   |
| 10905 | AAC | IEEE 802.11ax (40MHz), MCS10, 99pc duty cycle) | WLAN  | 0.66     | ±0.6                   |
| 10906 | AAC | IEEE 802.11ax (40MHz), MCS11, 99pc duty cycle) | WLAN  | 0.32     | ±0.6                   |
| 10907 | AAC | IEEE 802.11ax (40MHz), MCS0, 99pc duty cycle)  | WLAN  | 0.55     | ±0.6                   |
| 10908 | AAC | IEEE 802.11ax (40MHz), MCS1, 99pc duty cycle)  | WLAN  | 0.33     | ±0.6                   |
| 10909 | AAC | IEEE 802.11ax (40MHz), MCS2, 99pc duty cycle)  | WLAN  | 0.29     | ±0.6                   |
| 10910 | AAC | IEEE 802.11ax (40MHz), MCS3, 99pc duty cycle)  | WLAN  | 0.39     | ±0.6                   |
| 10911 | AAC | IEEE 802.11ax (40MHz), MCS4, 99pc duty cycle)  | WLAN  | 0.67     | ±0.6                   |
| 10912 | AAC | IEEE 802.11ax (40MHz), MCS5, 99pc duty cycle)  | WLAN  | 0.33     | ±0.6                   |
| 10913 | AAC | IEEE 802.11ax (40MHz), MCS6, 99pc duty cycle)  | WLAN  | 0.28     | ±0.6                   |
| 10914 | AAC | IEEE 802.11ax (40MHz), MCS7, 99pc duty cycle)  | WLAN  | 0.45     | ±0.6                   |
| 10915 | AAC | IEEE 802.11ax (40MHz), MCS8, 99pc duty cycle)  | WLAN  | 0.30     | ±0.6                   |
| 10916 | AAC | IEEE 802.11ax (40MHz), MCS9, 99pc duty cycle)  | WLAN  | 0.40     | ±0.6                   |
| 10917 | AAC | IEEE 802.11ax (40MHz), MCS10, 99pc duty cycle) | WLAN  | 0.24     | ±0.6                   |
| 10918 | AAC | IEEE 802.11ax (40MHz), MCS11, 99pc duty cycle) | WLAN  | 0.01     | ±0.6                   |
| 10919 | AAC | IEEE 802.11ax (80MHz), MCS0, 99pc duty cycle)  | WLAN  | 0.87     | ±0.6                   |
| 10920 | AAC | IEEE 802.11ax (80MHz), MCS1, 99pc duty cycle)  | WLAN  | 0.76     | ±0.6                   |
| 10921 | AAC | IEEE 802.11ax (80MHz), MCS2, 99pc duty cycle)  | WLAN  | 0.58     | ±0.6                   |
| 10922 | AAC | IEEE 802.11ax (80MHz), MCS3, 99pc duty cycle)  | WLAN  | 0.70     | ±0.6                   |
| 10923 | AAC | IEEE 802.11ax (80MHz), MCS4, 99pc duty cycle)  | WLAN  | 0.60     | ±0.6                   |
| 10924 | AAC | IEEE 802.11ax (80MHz), MCS5, 99pc duty cycle)  | WLAN  | 0.74     | ±0.6                   |
| 10925 | AAC | IEEE 802.11ax (80MHz), MCS6, 99pc duty cycle)  | WLAN  | 0.72     | ±0.6                   |
| 10926 | AAC | IEEE 802.11ax (80MHz), MCS7, 99pc duty cycle)  | WLAN  | 0.66     | ±0.6                   |
| 10927 | AAC | IEEE 802.11ax (80MHz), MCS8, 99pc duty cycle)  | WLAN  | 0.65     | ±0.6                   |
| 10928 | AAC | IEEE 802.11ax (80MHz), MCS9, 99pc duty cycle)  | WLAN  | 0.64     | ±0.6                   |
| 10929 | AAC | IEEE 802.11ax (80MHz), MCS10, 99pc duty cycle) | WLAN  | 0.67     | ±0.6                   |
| 10930 | AAC | IEEE 802.11ax (80MHz), MCS11, 99pc duty cycle) | WLAN  | 0.42     | ±0.6                   |
| 10931 | AAC | IEEE 802.11ax (80MHz), MCS0, 99pc duty cycle)  | WLAN  | 0.46     | ±0.6                   |
| 10932 | AAC | IEEE 802.11ax (80MHz), MCS1, 99pc duty cycle)  | WLAN  | 0.40     | ±0.6                   |
| 10933 | AAC | IEEE 802.11ax (80MHz), MCS2, 99pc duty cycle)  | WLAN  | 0.35     | ±0.6                   |
| 10934 | AAC | IEEE 802.11ax (80MHz), MCS3, 99pc duty cycle)  | WLAN  | 0.33     | ±0.6                   |
| 10935 | AAC | IEEE 802.11ax (80MHz), MCS4, 99pc duty cycle)  | WLAN  | 0.27     | ±0.6                   |
| 10936 | AAC | IEEE 802.11ax (80MHz), MCS5, 99pc duty cycle)  | WLAN  | 0.36     | ±0.6                   |
| 10937 | AAC | IEEE 802.11ax (80MHz), MCS6, 99pc duty cycle)  | WLAN  | 0.42     | ±0.6                   |
| 10938 | AAC | IEEE 802.11ax (80MHz), MCS7, 99pc duty cycle)  | WLAN  | 0.29     | ±0.6                   |
| 10939 | AAC | IEEE 802.11ax (80MHz), MCS8, 99pc duty cycle)  | WLAN  | 0.48     | ±0.6                   |
| 10940 | AAC | IEEE 802.11ax (80MHz), MCS9, 99pc duty cycle)  | WLAN  | 0.40     | ±0.6                   |
| 10941 | AAC | IEEE 802.11ax (80MHz), MCS10, 99pc duty cycle) | WLAN  | 0.43     | ±0.6                   |
| 10942 | AAC | IEEE 802.11ax (80MHz), MCS11, 99pc duty cycle) | WLAN  | 0.94     | ±0.6                   |
| 10943 | AAC | IEEE 802.11ax (160MHz), MCS0, 99pc duty cycle) | WLAN  | 0.93     | ±0.6                   |
| 10944 | AAC | IEEE 802.11ax (160MHz), MCS1, 99pc duty cycle) | WLAN  | 0.11     | ±0.6                   |
| 10945 | AAC | IEEE 802.11ax (160MHz), MCS2, 99pc duty cycle) | WLAN  | 0.04     | ±0.6                   |
| 10946 | AAC | IEEE 802.11ax (160MHz), MCS3, 99pc duty cycle) | WLAN  | 0.23     | ±0.6                   |
| 10947 | AAC | IEEE 802.11ax (160MHz), MCS4, 99pc duty cycle) | WLAN  | 0.90     | ±0.6                   |
| 10948 | AAC | IEEE 802.11ax (160MHz), MCS5, 99pc duty cycle) | WLAN  | 0.79     | ±0.6                   |
| 10949 | AAC | IEEE 802.11ax (160MHz), MCS6, 99pc duty cycle) | WLAN  | 0.82     | ±0.6                   |
| 10950 | AAC | IEEE 802.11ax (160MHz), MCS7, 99pc duty cycle) | WLAN  | 0.81     | ±0.6                   |
| 10951 | AAC | IEEE 802.11ax (160MHz), MCS8, 99pc duty cycle) | WLAN  |          |                        |
| 10952 | AAC | IEEE 802.11ax (160MHz), MCS9, 99pc duty cycle) | WLAN  |          |                        |

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May 23, 2023

| UID   | Rev | Communication System Name                      | Group         | PAR (dB) | Line# k = 2 |
|-------|-----|--|---------------|----------|-------------|
| 10753 | AAC | IEEE 802.11ax (160MHz, MCS10, 80pc duty cycle) | WLAN          | 8.06     | -19.6       |
| 10754 | AAC | IEEE 802.11ax (160MHz, MCS11, 80pc duty cycle) | WLAN          | 8.54     | -19.6       |
| 10755 | AAC | IEEE 802.11ax (160MHz, MCS0, 80pc duty cycle)  | WLAN          | 8.64     | -19.6       |
| 10756 | AAC | IEEE 802.11ax (160MHz, MCS1, 80pc duty cycle)  | WLAN          | 8.77     | -19.6       |
| 10757 | AAC | IEEE 802.11ax (160MHz, MCS2, 80pc duty cycle)  | WLAN          | 8.77     | -19.6       |
| 10758 | AAC | IEEE 802.11ax (160MHz, MCS3, 80pc duty cycle)  | WLAN          | 8.89     | -19.6       |
| 10759 | AAC | IEEE 802.11ax (160MHz, MCS4, 80pc duty cycle)  | WLAN          | 8.58     | -19.6       |
| 10760 | AAC | IEEE 802.11ax (160MHz, MCS5, 80pc duty cycle)  | WLAN          | 8.58     | -19.6       |
| 10761 | AAC | IEEE 802.11ax (160MHz, MCS6, 80pc duty cycle)  | WLAN          | 8.58     | -19.6       |
| 10762 | AAC | IEEE 802.11ax (160MHz, MCS7, 80pc duty cycle)  | WLAN          | 8.58     | -19.6       |
| 10763 | AAC | IEEE 802.11ax (160MHz, MCS8, 80pc duty cycle)  | WLAN          | 8.53     | -19.6       |
| 10764 | AAC | IEEE 802.11ax (160MHz, MCS9, 80pc duty cycle)  | WLAN          | 8.54     | -19.6       |
| 10765 | AAC | IEEE 802.11ax (160MHz, MCS10, 80pc duty cycle) | WLAN          | 8.54     | -19.6       |
| 10766 | AAC | IEEE 802.11ax (160MHz, MCS11, 80pc duty cycle) | WLAN          | 8.51     | -19.6       |
| 10767 | AAD | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 7.99     | -19.6       |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.01     | -19.6       |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.01     | -19.6       |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.02     | -19.6       |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.02     | -19.6       |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.23     | -19.6       |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.23     | -19.6       |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.02     | -19.6       |
| 10775 | AAD | 5G NR (CP-OFDM, 60% RB, 5 MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.31     | -19.6       |
| 10776 | AAD | 5G NR (CP-OFDM, 60% RB, 10 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.36     | -19.6       |
| 10777 | AAD | 5G NR (CP-OFDM, 60% RB, 15 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.36     | -19.6       |
| 10778 | AAD | 5G NR (CP-OFDM, 60% RB, 20 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.34     | -19.6       |
| 10779 | AAD | 5G NR (CP-OFDM, 60% RB, 25 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.42     | -19.6       |
| 10780 | AAD | 5G NR (CP-OFDM, 60% RB, 30 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.38     | -19.6       |
| 10781 | AAD | 5G NR (CP-OFDM, 60% RB, 40 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.38     | -19.6       |
| 10782 | AAD | 5G NR (CP-OFDM, 60% RB, 50 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.43     | -19.6       |
| 10783 | AAD | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.31     | -19.6       |
| 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.29     | -19.6       |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.40     | -19.6       |
| 10786 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.35     | -19.6       |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.44     | -19.6       |
| 10788 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.39     | -19.6       |
| 10789 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.37     | -19.6       |
| 10790 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)  | 5G NR FR1 TDD | 8.30     | -19.6       |
| 10791 | AAD | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.83     | -19.6       |
| 10792 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.92     | -19.6       |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.95     | -19.6       |
| 10794 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.82     | -19.6       |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.84     | -19.6       |
| 10796 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.82     | -19.6       |
| 10797 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 8.01     | -19.6       |
| 10798 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.89     | -19.6       |
| 10799 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.89     | -19.6       |
| 10800 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.87     | -19.6       |
| 10801 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 7.93     | -19.6       |
| 10802 | AAD | 5G NR (CP-OFDM, 1 RB, 120 MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 7.93     | -19.6       |
| 10803 | AAD | 5G NR (CP-OFDM, 1 RB, 140 MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.34     | -19.6       |
| 10804 | AAD | 5G NR (CP-OFDM, 60% RB, 10 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.37     | -19.6       |
| 10805 | AAD | 5G NR (CP-OFDM, 60% RB, 15 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.34     | -19.6       |
| 10806 | AAD | 5G NR (CP-OFDM, 60% RB, 20 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.34     | -19.6       |
| 10807 | AAD | 5G NR (CP-OFDM, 60% RB, 25 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.35     | -19.6       |
| 10808 | AAD | 5G NR (CP-OFDM, 60% RB, 30 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.35     | -19.6       |
| 10809 | AAD | 5G NR (CP-OFDM, 60% RB, 40 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.34     | -19.6       |
| 10810 | AAD | 5G NR (CP-OFDM, 60% RB, 50 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.33     | -19.6       |
| 10811 | AAD | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.30     | -19.6       |
| 10812 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.31     | -19.6       |
| 10813 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.31     | -19.6       |
| 10814 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.41     | -19.6       |
| 10815 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.41     | -19.6       |
| 10816 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.41     | -19.6       |
| 10817 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.38     | -19.6       |
| 10818 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.39     | -19.6       |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.41     | -19.6       |
| 10820 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.42     | -19.6       |
| 10821 | AAD | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30kHz)  | 5G NR FR1 TDD | 8.45     | -19.6       |

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May 23, 2023

| UID   | Rev | Communication System Name                       | Group         | PAR (dB) | Use# R = 2 |
|-------|-----|---|---------------|----------|------------|
| 10820 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 36 kHz) | 5G NR FRI TDD | 6.40     | ±0.6       |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.03     | ±0.6       |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.70     | ±0.6       |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.74     | ±0.6       |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.76     | ±0.6       |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.75     | ±0.6       |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 35 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.70     | ±0.6       |
| 10836 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.66     | ±0.6       |
| 10837 | AAD | 5G NR (CP-OFDM, 1 RB, 45 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.68     | ±0.6       |
| 10838 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.70     | ±0.6       |
| 10839 | AAD | 5G NR (CP-OFDM, 1 RB, 55 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.67     | ±0.6       |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)     | 5G NR FRI TDD | 7.71     | ±0.6       |
| 10841 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)   | 5G NR FRI TDD | 8.48     | ±0.6       |
| 10842 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)   | 5G NR FRI TDD | 8.34     | ±0.6       |
| 10843 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10844 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.34     | ±0.6       |
| 10845 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.38     | ±0.6       |
| 10846 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.37     | ±0.6       |
| 10847 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.35     | ±0.6       |
| 10848 | AAD | 5G NR (CP-OFDM, 100% RB, 35 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.36     | ±0.6       |
| 10849 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.34     | ±0.6       |
| 10850 | AAD | 5G NR (CP-OFDM, 100% RB, 45 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10851 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.40     | ±0.6       |
| 10852 | AAD | 5G NR (CP-OFDM, 100% RB, 55 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10853 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.37     | ±0.6       |
| 10854 | AAD | 5G NR (CP-OFDM, 100% RB, 65 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.37     | ±0.6       |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 70 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10856 | AAD | 5G NR (CP-OFDM, 100% RB, 75 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.39     | ±0.6       |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10858 | AAD | 5G NR (CP-OFDM, 100% RB, 85 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.39     | ±0.6       |
| 10859 | AAD | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10860 | AAD | 5G NR (CP-OFDM, 100% RB, 95 MHz, QPSK, 60 kHz)  | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10861 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10862 | AAD | 5G NR (CP-OFDM, 100% RB, 105 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10863 | AAD | 5G NR (CP-OFDM, 100% RB, 110 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10864 | AAD | 5G NR (CP-OFDM, 100% RB, 115 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10865 | AAD | 5G NR (CP-OFDM, 100% RB, 120 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10866 | AAD | 5G NR (CP-OFDM, 100% RB, 125 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10867 | AAD | 5G NR (CP-OFDM, 100% RB, 130 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10868 | AAD | 5G NR (CP-OFDM, 100% RB, 135 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10869 | AAD | 5G NR (CP-OFDM, 100% RB, 140 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10870 | AAD | 5G NR (CP-OFDM, 100% RB, 145 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10871 | AAD | 5G NR (CP-OFDM, 100% RB, 150 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10872 | AAD | 5G NR (CP-OFDM, 100% RB, 155 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10873 | AAD | 5G NR (CP-OFDM, 100% RB, 160 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10874 | AAD | 5G NR (CP-OFDM, 100% RB, 165 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10875 | AAD | 5G NR (CP-OFDM, 100% RB, 170 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 175 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10877 | AAD | 5G NR (CP-OFDM, 100% RB, 180 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 185 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10879 | AAD | 5G NR (CP-OFDM, 100% RB, 190 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 195 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10881 | AAD | 5G NR (CP-OFDM, 100% RB, 200 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10882 | AAD | 5G NR (CP-OFDM, 100% RB, 205 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10883 | AAD | 5G NR (CP-OFDM, 100% RB, 210 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10884 | AAD | 5G NR (CP-OFDM, 100% RB, 215 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10885 | AAD | 5G NR (CP-OFDM, 100% RB, 220 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10886 | AAD | 5G NR (CP-OFDM, 100% RB, 225 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10887 | AAD | 5G NR (CP-OFDM, 100% RB, 230 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 235 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10889 | AAD | 5G NR (CP-OFDM, 100% RB, 240 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 245 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10891 | AAD | 5G NR (CP-OFDM, 100% RB, 250 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 255 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10893 | AAD | 5G NR (CP-OFDM, 100% RB, 260 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10894 | AAD | 5G NR (CP-OFDM, 100% RB, 265 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10895 | AAD | 5G NR (CP-OFDM, 100% RB, 270 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10896 | AAD | 5G NR (CP-OFDM, 100% RB, 275 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10897 | AAD | 5G NR (CP-OFDM, 100% RB, 280 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10898 | AAD | 5G NR (CP-OFDM, 100% RB, 285 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10899 | AAD | 5G NR (CP-OFDM, 100% RB, 290 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10900 | AAD | 5G NR (CP-OFDM, 100% RB, 295 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10901 | AAD | 5G NR (CP-OFDM, 100% RB, 300 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10902 | AAD | 5G NR (CP-OFDM, 100% RB, 305 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10903 | AAD | 5G NR (CP-OFDM, 100% RB, 310 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10904 | AAD | 5G NR (CP-OFDM, 100% RB, 315 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10905 | AAD | 5G NR (CP-OFDM, 100% RB, 320 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10906 | AAD | 5G NR (CP-OFDM, 100% RB, 325 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10907 | AAD | 5G NR (CP-OFDM, 100% RB, 330 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10908 | AAD | 5G NR (CP-OFDM, 100% RB, 335 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10909 | AAD | 5G NR (CP-OFDM, 100% RB, 340 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |
| 10910 | AAD | 5G NR (CP-OFDM, 100% RB, 345 MHz, QPSK, 60 kHz) | 5G NR FRI TDD | 8.41     | ±0.6       |

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EX3D04 - SN:3791

May 23, 2023

| UID   | Rev | Communication System Name                           | Group         | PAR (dB) | Unc <sup>2</sup> k=2 |
|-------|-----|---|---------------|----------|----------------------|
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.53     | ±0.6                 |
| 10912 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.85     | ±0.6                 |
| 10915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.83     | ±0.6                 |
| 10916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.87     | ±0.6                 |
| 10917 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.94     | ±0.6                 |
| 10918 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.96     | ±0.6                 |
| 10919 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.95     | ±0.6                 |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.97     | ±0.6                 |
| 10921 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.94     | ±0.6                 |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.92     | ±0.6                 |
| 10923 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10924 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10925 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10926 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.86     | ±0.6                 |
| 10927 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)      | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10928 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.94     | ±0.6                 |
| 10929 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.92     | ±0.6                 |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.92     | ±0.6                 |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.92     | ±0.6                 |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.91     | ±0.6                 |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.91     | ±0.6                 |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.91     | ±0.6                 |
| 10935 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.91     | ±0.6                 |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.91     | ±0.6                 |
| 10937 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.90     | ±0.6                 |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.77     | ±0.6                 |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.90     | ±0.6                 |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.90     | ±0.6                 |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.89     | ±0.6                 |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.89     | ±0.6                 |
| 10943 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.85     | ±0.6                 |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.85     | ±0.6                 |
| 10945 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.85     | ±0.6                 |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.83     | ±0.6                 |
| 10947 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.87     | ±0.6                 |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.84     | ±0.6                 |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.87     | ±0.6                 |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 5.94     | ±0.6                 |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)      | 5G NR FRI TDD | 5.92     | ±0.6                 |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)     | 5G NR FRI FDD | 3.25     | ±0.8                 |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)    | 5G NR FRI FDD | 3.15     | ±0.8                 |
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)    | 5G NR FRI FDD | 3.23     | ±0.8                 |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz)    | 5G NR FRI FDD | 3.32     | ±0.8                 |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)     | 5G NR FRI FDD | 3.14     | ±0.8                 |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz)    | 5G NR FRI FDD | 3.31     | ±0.8                 |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)    | 5G NR FRI FDD | 3.33     | ±0.8                 |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)    | 5G NR FRI FDD | 3.32     | ±0.8                 |
| 10960 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)     | 5G NR FRI TDD | 3.32     | ±0.8                 |
| 10961 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)    | 5G NR FRI TDD | 3.36     | ±0.8                 |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)    | 5G NR FRI TDD | 3.40     | ±0.8                 |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz)    | 5G NR FRI TDD | 3.56     | ±0.8                 |
| 10964 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)     | 5G NR FRI TDD | 3.29     | ±0.8                 |
| 10965 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz)    | 5G NR FRI TDD | 3.37     | ±0.8                 |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)    | 5G NR FRI TDD | 3.55     | ±0.8                 |
| 10967 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)    | 5G NR FRI TDD | 3.42     | ±0.8                 |
| 10968 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 30MHz, 64-QAM, 30kHz)    | 5G NR FRI TDD | 3.49     | ±0.8                 |
| 10972 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 100MHz, QPSK, 15kHz)       | 5G NR FRI TDD | 11.99    | ±0.6                 |
| 10973 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 100MHz, QPSK, 15kHz)       | 5G NR FRI TDD | 9.95     | ±0.6                 |
| 10974 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 100MHz, 256-QAM, 30kHz) | 5G NR FRI TDD | 10.28    | ±0.6                 |
| 10979 | AAA | ULLA BDR  | ULLA          | 1.16     | ±0.8                 |
| 10979 | AAA | ULLA HDR4   | ULLA          | 3.88     | ±0.6                 |
| 10980 | AAA | ULLA HDR6   | ULLA          | 10.32    | ±0.6                 |
| 10981 | AAA | ULLA HDR8   | ULLA          | 3.19     | ±0.6                 |
| 10982 | AAA | ULLA HDR9   | ULLA          | 3.43     | ±0.6                 |

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May 23, 2023

| UID   | Raw | Communication System Name                          | Group         | PAR (dB) | Unc <sup>2</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     | ±0.4                   |
| 10984 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.42     | ±0.4                   |
| 10985 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54     | ±0.4                   |
| 10986 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.56     | ±0.4                   |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.63     | ±0.4                   |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38     | ±0.4                   |
| 10989 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33     | ±0.4                   |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52     | ±0.4                   |
| 11000 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24    | ±0.4                   |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73    | ±0.4                   |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.79     | ±0.4                   |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55     | ±0.4                   |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.46     | ±0.4                   |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51     | ±0.4                   |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76     | ±0.4                   |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.99     | ±0.4                   |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.99     | ±0.4                   |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.69     | ±0.4                   |
| 11013 | AAA | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)     | WLAN          | 8.27     | ±0.4                   |
| 11014 | AAA | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)     | WLAN          | 8.49     | ±0.4                   |
| 11015 | AAA | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)     | WLAN          | 8.44     | ±0.4                   |
| 11016 | AAA | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)     | WLAN          | 8.44     | ±0.4                   |
| 11017 | AAA | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)     | WLAN          | 8.61     | ±0.4                   |
| 11018 | AAA | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)     | WLAN          | 8.40     | ±0.4                   |
| 11019 | AAA | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)     | WLAN          | 8.20     | ±0.4                   |
| 11020 | AAA | IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)     | WLAN          | 8.37     | ±0.4                   |
| 11021 | AAA | IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)     | WLAN          | 8.36     | ±0.4                   |
| 11022 | AAA | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)    | WLAN          | 8.06     | ±0.4                   |
| 11023 | AAA | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)    | WLAN          | 8.06     | ±0.4                   |
| 11024 | AAA | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)    | WLAN          | 8.42     | ±0.4                   |
| 11025 | AAA | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)    | WLAN          | 8.37     | ±0.4                   |
| 11026 | AAA | IEEE 802.11be (320 MHz, MCS14, 99pc duty cycle)    | WLAN          | 8.36     | ±0.4                   |

<sup>2</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

**Appendix D.2 Calibration certificate for Probe(SN 7574)**

| <p><b>Calibration Laboratory of</b><br/>                 Schmid &amp; Partner<br/>                 Engineering AG<br/>                 Zeughausstrasse 43, 8004 Zurich, Switzerland</p> <p>Accredited by the Swiss Accreditation Service (SAS)<br/>                 The Swiss Accreditation Service is one of the signatories to the EA<br/>                 Multilateral Agreement for the recognition of calibration certificates</p>  | <br>   | <p>S Schweizerischer Kalibrierdienst<br/>                 C Service suisse d'étalonnage<br/>                 S Servizio svizzero di taratura<br/>                 S Swiss Calibration Service</p> <p>Accreditation No.: <b>SCS 0108</b></p> |                        |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
|--|--|---|------------------------|----------------------------|--|-----------------------|------------------|------------------------|------------------------------------|------------|----------------------|------------|---------------------------|--------|------------------------|----------|-----------------------------------|--------|------------|----------|----------------------------------|--------|----------------------------|------------------|---------------------------|--------|------|---------|--------------------------------|--------|------------------------|----------|--------------------------------|--------|---------------------|----|-----------------------|-----------------|--------------------|----------------|-----------------------------------|------------------------|---------------------|----------------|-----------------------------------|------------------------|---------------------|---------------|-----------------------------------|------------------------|-----------------------|------------------|-----------------------------------|------------------------|-------------------------|----------------|-----------------------------------|------------------------|
| <p>Client: <b>SGS</b><br/>                 Gyeonggi-do, Republic of Korea</p>  | <p>Certificate No.: <b>EX-7574_Jul23</b></p> |   |                        |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| <b>CALIBRATION CERTIFICATE</b>   |  |   |                        |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| <p>Object: <b>EX3DV4 - SN:7574</b></p> <p>Calibration procedure(s): <b>QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6, QA CAL-25.v8</b><br/>                 Calibration procedure for dosimetric E-field probes</p> <p>Calibration date: <b>July 18, 2023</b></p> <p><small>This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.<br/>                 All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3) °C and humidity &lt; 70%.<br/>                 Calibration Equipment used (MATE critical for calibration)</small></p>  |  |   |                        |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
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| Primary Standards  | ID   | Cal Date (Certificate No.)  | Scheduled Calibration  |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Power meter NRP2   | SN: 104778                                   | 30-Mar-23 (No. 217-03804/03805)   | Mar-24                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Power sensor NRP-Z91   | SN: 103244                                   | 30-Mar-23 (No. 217-03804)   | Mar-24                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| OCP DAK-3.5 (weighted)   | SN: 1249                                     | 20-Oct-22 (OCP-DAK3.5-1249_Oct22)   | Oct-23                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| OCP DAK-12   | SN: 1016                                     | 20-Oct-22 (OCP-DAK12-1016_Oct22)  | Oct-23                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Reference 20 dB Attenuator   | SN: CC2552 (20v)                             | 30-Mar-23 (No. 217-03806)   | Mar-24                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| DAE4   | SN: 690                                      | 16-Mar-23 (No. DAE4-690_Mar23)  | Mar-24                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Reference Probe EB3DV2   | SN: 3013                                     | 06-Jan-23 (No. EB3-3013_Jan23)  | Jan-24                 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Secondary Standards  | ID   | Check Date (in house)   | Scheduled Check        |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Power meter E4419B   | SN: GB41250874                               | 06-Apr-16 (in house check Jun-22)   | In house check: Jun-24 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Power sensor E4412A  | SN: MY41698087                               | 06-Apr-16 (in house check Jun-22)   | In house check: Jun-24 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Power sensor E4412A  | SN: 020110210                                | 06-Apr-16 (in house check Jun-22)   | In house check: Jun-24 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| RF generator HP 8646C  | SN: US3442U01700                             | 04-Aug-09 (in house check Jun-22)   | In house check: Jun-24 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Network Analyzer E6359A  | SN: US41560477                               | 31-Mar-14 (in house check Oct-22)   | In house check: Oct-24 |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| <table border="0" style="width:100%"> <tr> <td style="width:30%">Calibrated by</td> <td style="width:30%">Name: <b>Lail Klyssner</b></td> <td style="width:20%">Function: <b>Laboratory Technician</b></td> <td style="width:20%">Signature: </td> </tr> <tr> <td>Approved by</td> <td>Name: <b>Sven Kohn</b></td> <td>Function: <b>Technical Manager</b></td> <td>Signature: </td> </tr> </table> <p><small>This calibration certificate shall not be reproduced except in full without written approval of the laboratory.</small></p> <p align="right">Issued: July 19, 2023</p>  |  |   | Calibrated by          | Name: <b>Lail Klyssner</b> | Function: <b>Laboratory Technician</b> | Signature:            | Approved by      | Name: <b>Sven Kohn</b> | Function: <b>Technical Manager</b> | Signature: |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Calibrated by  | Name: <b>Lail Klyssner</b>                   | Function: <b>Laboratory Technician</b>  | Signature:             |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| Approved by  | Name: <b>Sven Kohn</b>                       | Function: <b>Technical Manager</b>  | Signature:             |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |
| <p>Certificate No: EX-7574_Jul23 <span style="float:right">Page 1 of 22</span></p>   |  |   |                        |                            |  |                       |                  |                        |                                    |            |                      |            |                           |        |                        |          |                                   |        |            |          |                                  |        |                            |                  |                           |        |      |         |                                |        |                        |          |                                |        |                     |    |                       |                 |                    |                |                                   |                        |                     |                |                                   |                        |                     |               |                                   |                        |                       |                  |                                   |                        |                         |                |                                   |                        |

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**Glossary**

|                        |  |
|------------------------|--|
| TSL                    | tissue simulating liquid   |
| NORM <sub>x,y,z</sub>  | sensitivity in free space  |
| ConvF                  | sensitivity in TSL / NORM <sub>x,y,z</sub>   |
| DCP                    | diode compression point  |
| CF                     | crest factor (1/duty_cycle) of the RF signal   |
| A, B, C, D             | modulation dependent linearization parameters  |
| Polarization $\varphi$ | $\varphi$ rotation around probe axis   |
| Polarization $\theta$  | $\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis |
| Connector Angle        | information used in DAS4 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 865684, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>: Assessed for E-field polarization  $\theta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM<sub>x,y,z</sub> \* ConvF = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DAS4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>: 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
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>: 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  $f \geq 800$  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 DAS4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DAS4 version 4.4 and higher which allows extending the validity from  $\approx 50$  MHz to  $\approx 100$  MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).



EX3DV4 - SN:7574

July 18, 2023

**Parameters of Probe: EX3DV4 - SN:7574**

**Basic Calibration Parameters**

|                                     | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|-------------------------------------|----------|----------|----------|-------------|
| Norm ( $\mu V/V/m^2$ ) <sup>A</sup> | 0.50     | 0.52     | 0.48     | ±10.1%      |
| DCP (mV) <sup>B</sup>               | 108.0    | 103.5    | 109.5    | ±4.7%       |

**Calibration Results for Modulation Response**

| UID   | Communication System Name   |   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | C     | D<br>dB | VR<br>mV | Max<br>dev. | Max<br>Unc <sup>C</sup><br>k = 2 |
|-------|-----------------------------|---|---------|------------------------|-------|---------|----------|-------------|----------------------------------|
| 0     | CW                          | X | 0.00    | 0.00                   | 1.00  | 0.00    | 167.4    | ±2.7%       | ±4.7%                            |
|       |                             | Y | 0.00    | 0.00                   | 1.00  |         | 164.8    |             |                                  |
|       |                             | Z | 0.00    | 0.00                   | 1.00  |         | 159.7    |             |                                  |
| 10352 | Pulse Waveform (200Hz, 10%) | X | 1.39    | 80.03                  | 5.99  | 10.00   | 60.0     | ±2.8%       | ±9.6%                            |
|       |                             | Y | 1.50    | 80.70                  | 6.33  |         | 60.0     |             |                                  |
|       |                             | Z | 1.36    | 80.00                  | 5.91  |         | 60.0     |             |                                  |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 20.00   | 74.00                  | 9.00  | 6.99    | 80.0     | ±2.6%       | ±9.6%                            |
|       |                             | Y | 0.79    | 80.00                  | 4.78  |         | 80.0     |             |                                  |
|       |                             | Z | 0.82    | 80.00                  | 4.72  |         | 80.0     |             |                                  |
| 10354 | Pulse Waveform (200Hz, 40%) | X | 0.11    | 139.75                 | 0.01  | 3.98    | 95.0     | ±2.6%       | ±9.6%                            |
|       |                             | Y | 0.06    | 123.67                 | 0.78  |         | 95.0     |             |                                  |
|       |                             | Z | 0.05    | 136.27                 | 0.01  |         | 95.0     |             |                                  |
| 10355 | Pulse Waveform (200Hz, 60%) | X | 5.22    | 71.39                  | 0.19  | 2.22    | 120.0    | ±1.6%       | ±9.6%                            |
|       |                             | Y | 1.09    | 159.88                 | 2.98  |         | 120.0    |             |                                  |
|       |                             | Z | 0.36    | 60.00                  | 2.47  |         | 120.0    |             |                                  |
| 10387 | QPSK Waveform, 1 MHz        | X | 0.82    | 70.89                  | 16.77 | 1.00    | 150.0    | ±3.6%       | ±9.6%                            |
|       |                             | Y | 0.45    | 64.14                  | 12.92 |         | 150.0    |             |                                  |
|       |                             | Z | 0.88    | 75.09                  | 19.87 |         | 150.0    |             |                                  |
| 10388 | QPSK Waveform, 10 MHz       | X | 1.85    | 89.88                  | 18.19 | 0.00    | 150.0    | ±1.3%       | ±9.6%                            |
|       |                             | Y | 1.28    | 88.88                  | 14.14 |         | 150.0    |             |                                  |
|       |                             | Z | 1.85    | 73.16                  | 17.07 |         | 150.0    |             |                                  |
| 10396 | 64-QAM Waveform, 100kHz     | X | 1.67    | 64.64                  | 16.36 | 3.01    | 150.0    | ±1.1%       | ±9.6%                            |
|       |                             | Y | 1.61    | 63.97                  | 15.91 |         | 150.0    |             |                                  |
|       |                             | Z | 1.82    | 66.55                  | 17.38 |         | 150.0    |             |                                  |
| 10399 | 64-QAM Waveform, 40 MHz     | X | 2.94    | 67.23                  | 15.84 | 0.00    | 150.0    | ±2.1%       | ±9.6%                            |
|       |                             | Y | 2.83    | 67.07                  | 15.58 |         | 150.0    |             |                                  |
|       |                             | Z | 2.93    | 68.24                  | 16.30 |         | 150.0    |             |                                  |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz   | X | 4.01    | 67.05                  | 16.00 | 0.00    | 150.0    | ±3.5%       | ±9.6%                            |
|       |                             | Y | 3.75    | 66.82                  | 15.59 |         | 150.0    |             |                                  |
|       |                             | Z | 3.78    | 67.48                  | 16.03 |         | 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%.

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

EX3DV4 - SN:7574

July 18, 2023

**Parameters of Probe: EX3DV4 - SN:7574**

**Sensor Model Parameters**

|   | C1<br>fF | C2<br>fF | $\alpha$<br>V <sup>-1</sup> | T1<br>mV <sup>2</sup> | T2<br>mV <sup>-1</sup> | T3<br>ms | T4<br>V <sup>-2</sup> | T5<br>V <sup>-1</sup> | T6   |
|---|----------|----------|-----------------------------|-----------------------|------------------------|----------|-----------------------|-----------------------|------|
| x | 8.7      | 70.28    | 35.85                       | 3.20                  | 0.00                   | 4.50     | 0.17                  | 0.04                  | 1.00 |
| y | 8.0      | 69.84    | 35.20                       | 2.89                  | 0.00                   | 4.33     | 0.06                  | 0.07                  | 1.00 |
| z | 7.0      | 51.16    | 34.07                       | 3.57                  | 0.00                   | 4.90     | 0.50                  | 0.00                  | 1.00 |

**Other Probe Parameters**

|   |            |
|---|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle                               | 154.8°     |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

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

EX3DV4 - SN:7574

July 18, 2023

**Parameters of Probe: EX3DV4 - SN:7574**

**Calibration Parameter Determined in Head Tissue Simulating Media**

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity <sup>F</sup> (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 9.60    | 9.60    | 9.60    | 0.40               | 0.93                    | ±12.0%    |
| 835                  | 41.5                               | 0.90                            | 9.24    | 9.24    | 9.24    | 0.26               | 1.22                    | ±12.0%    |
| 900                  | 41.5                               | 0.97                            | 9.03    | 9.03    | 9.03    | 0.46               | 0.80                    | ±12.0%    |
| 1750                 | 40.1                               | 1.37                            | 8.39    | 8.39    | 8.39    | 0.27               | 0.86                    | ±12.0%    |
| 1900                 | 40.0                               | 1.40                            | 7.94    | 7.94    | 7.94    | 0.27               | 0.86                    | ±12.0%    |
| 1950                 | 40.0                               | 1.40                            | 7.75    | 7.75    | 7.75    | 0.35               | 0.86                    | ±12.0%    |
| 2300                 | 39.5                               | 1.67                            | 7.66    | 7.66    | 7.66    | 0.29               | 0.90                    | ±12.0%    |
| 2450                 | 39.2                               | 1.80                            | 7.32    | 7.32    | 7.32    | 0.27               | 0.90                    | ±12.0%    |
| 2900                 | 39.0                               | 1.96                            | 7.11    | 7.11    | 7.11    | 0.41               | 0.90                    | ±12.0%    |
| 3000                 | 38.2                               | 2.71                            | 6.81    | 6.81    | 6.81    | 0.30               | 1.35                    | ±14.0%    |
| 3500                 | 37.9                               | 2.91                            | 6.61    | 6.61    | 6.61    | 0.30               | 1.35                    | ±14.0%    |
| 3700                 | 37.7                               | 3.12                            | 6.52    | 6.52    | 6.52    | 0.30               | 1.35                    | ±14.0%    |
| 3900                 | 37.5                               | 3.32                            | 6.39    | 6.39    | 6.39    | 0.40               | 1.60                    | ±14.0%    |
| 4100                 | 37.2                               | 3.53                            | 6.33    | 6.33    | 6.33    | 0.40               | 1.60                    | ±14.0%    |
| 4400                 | 36.9                               | 3.94                            | 5.87    | 5.87    | 5.87    | 0.40               | 1.70                    | ±14.0%    |
| 4600                 | 36.7                               | 4.04                            | 5.82    | 5.82    | 5.82    | 0.40               | 1.70                    | ±14.0%    |
| 4800                 | 36.4                               | 4.25                            | 5.88    | 5.88    | 5.88    | 0.40               | 1.80                    | ±14.0%    |
| 4950                 | 36.3                               | 4.40                            | 5.65    | 5.65    | 5.65    | 0.40               | 1.80                    | ±14.0%    |
| 5200                 | 36.0                               | 4.66                            | 5.27    | 5.27    | 5.27    | 0.40               | 1.80                    | ±14.0%    |
| 5300                 | 35.9                               | 4.76                            | 5.06    | 5.06    | 5.06    | 0.40               | 1.80                    | ±14.0%    |
| 5500                 | 35.6                               | 4.96                            | 4.81    | 4.81    | 4.81    | 0.40               | 1.80                    | ±14.0%    |
| 5600                 | 35.5                               | 5.07                            | 4.61    | 4.61    | 4.61    | 0.40               | 1.80                    | ±14.0%    |
| 5800                 | 35.3                               | 5.27                            | 4.60    | 4.60    | 4.60    | 0.40               | 1.80                    | ±14.0%    |

<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 RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is a 10, 25, 40, 55 and 70 MHz for ConvF assessments at 30, 64, 156, 150 and 225 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-8 MHz, and ConvF assessed at 13 MHz is 9-18 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon'$  and  $\sigma$  by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to a 10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

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

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**Parameters of Probe: EX3DV4 - SN:7574**

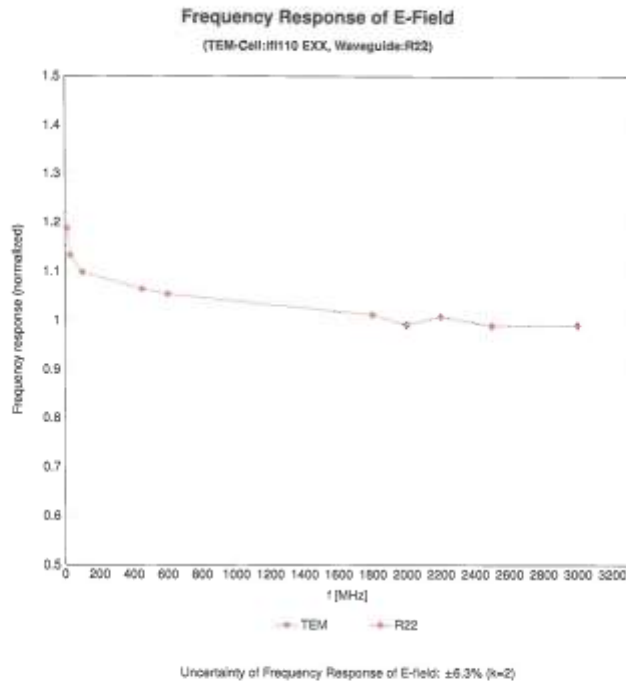
**Calibration Parameter Determined in Head Tissue Simulating Media**

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity <sup>F</sup> (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 6500                 | 34.5                               | 6.07                            | 5.10    | 5.10    | 5.10    | 0.20               | 2.50                    | ±18.6%    |
| 7000                 | 33.9                               | 6.55                            | 5.05    | 5.05    | 5.05    | 0.30               | 2.80                    | ±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> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon'$  and  $\sigma$  by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.  
<sup>G</sup> Alpha/Depth are determined during calibration. SP5AG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz as any distance larger than half the probe tip diameter from the boundary.

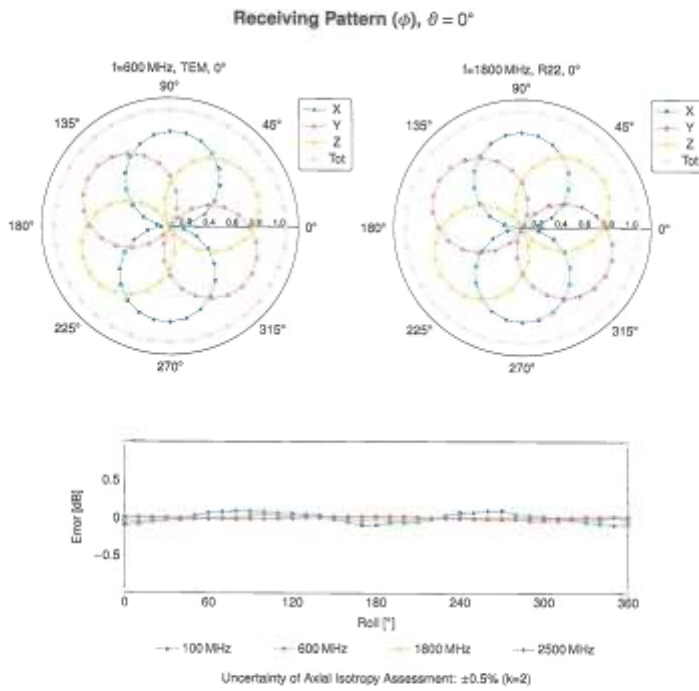
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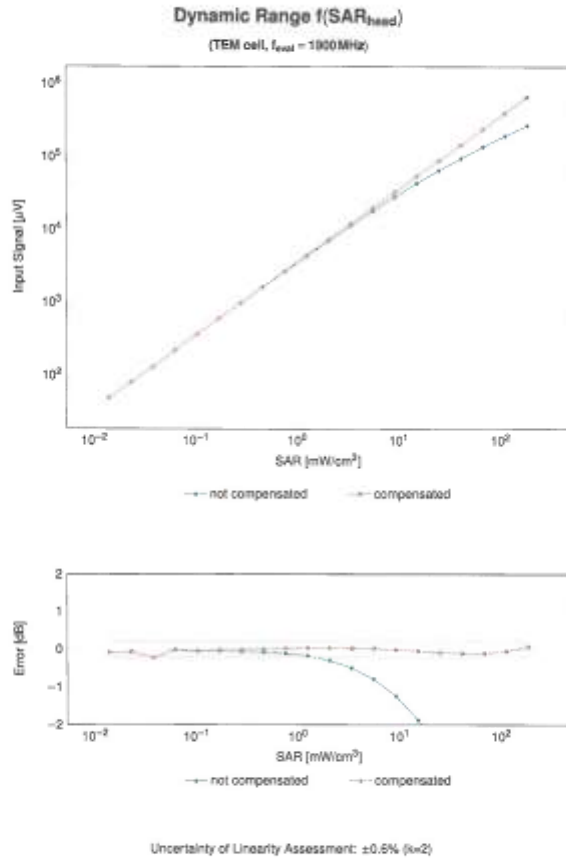


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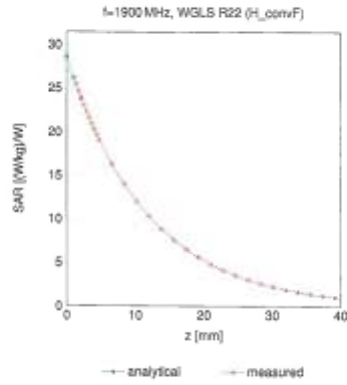
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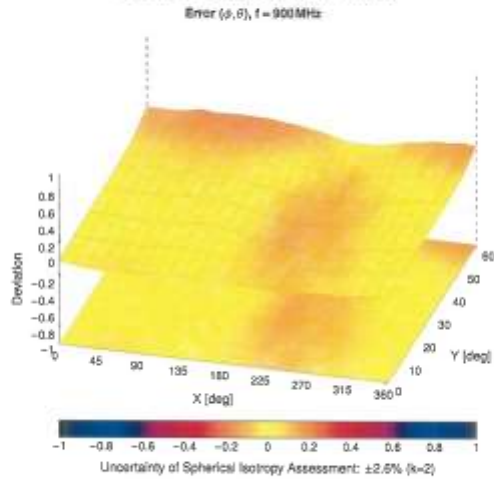
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**Conversion Factor Assessment**



**Deviation from Isotropy in Liquid**



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Appendix: Modulation Calibration Parameters

| URI   | Rev | Communication System Name                         | Group     | PAR (dB) | Unc <sup>2</sup> k = 2 |
|-------|-----|---|-----------|----------|------------------------|
| 9     |     | CW  | CW        | 0.00     | ±4.7                   |
| 10010 | CAR | SAR Validation (Square, 100ma, 10ms)              | SAR       | 10.00    | ±0.0                   |
| 10011 | CAC | UMTS-FDD (WCDMA)                                  | WCDMA     | 2.91     | ±0.0                   |
| 10012 | CAR | IEEE 802.11b WiFi 2.4GHz (DSSS, 1 Mbps)           | WLAN      | 2.87     | ±0.0                   |
| 10013 | CAR | IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 6Mbps)       | WLAN      | 3.44     | ±0.0                   |
| 10021 | DAC | GSM-FDD (TDMA, GMSK)                              | GSM       | 3.39     | ±0.0                   |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0)                       | GSM       | 3.57     | ±0.0                   |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                     | GSM       | 3.58     | ±0.0                   |
| 10025 | DAC | EDGE-FDD (TDMA, GMSK, TN 0)                       | GSM       | 12.62    | ±0.0                   |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                     | GSM       | 3.56     | ±0.0                   |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)                   | GSM       | 4.85     | ±0.0                   |
| 10029 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)                 | GSM       | 3.55     | ±0.0                   |
| 10029 | DAC | EDGE-FDD (TDMA, GMSK, TN 0-1-2)                   | GSM       | 7.78     | ±0.0                   |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (QPSK, DH1)               | Bluetooth | 5.36     | ±0.0                   |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (QPSK, DH2)               | Bluetooth | 7.87     | ±0.0                   |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (QPSK, DH3)               | Bluetooth | 1.16     | ±0.0                   |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (P4-DQPSK, CH1)           | Bluetooth | 7.74     | ±0.0                   |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (P4-DQPSK, CH3)           | Bluetooth | 4.53     | ±0.0                   |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (P4-DQPSK, CH5)           | Bluetooth | 3.83     | ±0.0                   |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)             | Bluetooth | 8.01     | ±0.0                   |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)             | Bluetooth | 4.77     | ±0.0                   |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, CH3)             | Bluetooth | 4.10     | ±0.0                   |
| 10038 | CAR | CDMA2000 (1xRTT, FC1)                             | CDMA2000  | 4.57     | ±0.0                   |
| 10042 | CAR | IS-54 / IS-136 FDD (TDMA-FDM, P4-DQPSK, Fullrate) | AMPS      | 7.78     | ±0.0                   |
| 10044 | CAA | IS-97/IS-TIA-553 FDD (TDMA, FH)                   | AMPS      | 0.00     | ±0.0                   |
| 10048 | CAA | DECT (TDD, TDMA/FDM, QPSK, Full Slot, 24)         | DECT      | 13.00    | ±0.0                   |
| 10049 | CAA | DECT (TDD, TDMA/FDM, QPSK, Double Slot, 12)       | DECT      | 10.70    | ±0.0                   |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28Mbps)                     | TD-SCDMA  | 11.01    | ±0.0                   |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                 | GSM       | 6.50     | ±0.0                   |
| 10059 | CAR | IEEE 802.11b WiFi 2.4GHz (QSSS, 2Mbps)            | WLAN      | 2.12     | ±0.0                   |
| 10060 | CAR | IEEE 802.11b WiFi 2.4GHz (QSSS, 5.5Mbps)          | WLAN      | 2.85     | ±0.0                   |
| 10061 | CAR | IEEE 802.11b WiFi 2.4GHz (QSSS, 11Mbps)           | WLAN      | 3.00     | ±0.0                   |
| 10062 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 6Mbps)            | WLAN      | 3.88     | ±0.0                   |
| 10063 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 9Mbps)            | WLAN      | 6.63     | ±0.0                   |
| 10064 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 12Mbps)           | WLAN      | 9.00     | ±0.0                   |
| 10065 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 18Mbps)           | WLAN      | 9.00     | ±0.0                   |
| 10066 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 24Mbps)           | WLAN      | 9.39     | ±0.0                   |
| 10067 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 30Mbps)           | WLAN      | 10.12    | ±0.0                   |
| 10068 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 48Mbps)           | WLAN      | 10.34    | ±0.0                   |
| 10069 | CAD | IEEE 802.11a/n WiFi 5GHz (OFDM, 54Mbps)           | WLAN      | 10.96    | ±0.0                   |
| 10071 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 9Mbps)       | WLAN      | 0.83     | ±0.0                   |
| 10072 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 12Mbps)      | WLAN      | 0.82     | ±0.0                   |
| 10073 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 18Mbps)      | WLAN      | 0.94     | ±0.0                   |
| 10074 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 24Mbps)      | WLAN      | 10.30    | ±0.0                   |
| 10075 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 36Mbps)      | WLAN      | 10.77    | ±0.0                   |
| 10076 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 48Mbps)      | WLAN      | 10.94    | ±0.0                   |
| 10077 | CAR | IEEE 802.11g WiFi 2.4GHz (QSSS/OFDM, 54Mbps)      | WLAN      | 11.00    | ±0.0                   |
| 10081 | CAR | CDMA2000 (1xRTT, FC3)                             | CDMA2000  | 3.97     | ±0.0                   |
| 10082 | CAR | IS-54 / IS-136 FDD (TDMA-FDM, P4-DQPSK, Fullrate) | AMPS      | 4.77     | ±0.0                   |
| 10083 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                     | GSM       | 6.56     | ±0.0                   |
| 10087 | CAC | UMTS-FDD (HSPA)                                   | WCDMA     | 3.99     | ±0.0                   |
| 10088 | CAC | UMTS-FDD (HSPA, Subrate 2)                        | WCDMA     | 3.99     | ±0.0                   |
| 10089 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                     | GSM       | 3.55     | ±0.0                   |
| 10103 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20MHz, QPSK)           | LTE-FDD   | 5.37     | ±0.0                   |
| 10101 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20MHz, 16-QAM)         | LTE-FDD   | 9.42     | ±0.0                   |
| 10102 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20MHz, 64-QAM)         | LTE-FDD   | 8.83     | ±0.0                   |
| 10103 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20MHz, QPSK)           | LTE-TDD   | 9.29     | ±0.0                   |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM)         | LTE-TDD   | 9.29     | ±0.0                   |
| 10105 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM)         | LTE-TDD   | 10.21    | ±0.0                   |
| 10108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10MHz, QPSK)           | LTE-FDD   | 5.80     | ±0.0                   |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10MHz, 16-QAM)         | LTE-FDD   | 8.43     | ±0.0                   |
| 10110 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, QPSK)            | LTE-FDD   | 5.75     | ±0.0                   |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)          | LTE-FDD   | 6.44     | ±0.0                   |

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| UBD   | Rev | Communication System Name                      | Group   | FAR (dB) | Unc <sup>2</sup> (dB) |
|-------|-----|--|---------|----------|-----------------------|
| 10112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)      | LTE-FDD | 6.59     | ±0.6                  |
| 10113 | CAH | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)      | LTE-FDD | 6.60     | ±0.6                  |
| 10114 | CAD | IEEE 802.11n (HT Greenfield, 13.5Mbps, BPSK)   | WLAN    | 8.10     | ±0.6                  |
| 10116 | CAD | IEEE 802.11n (HT Greenfield, 13.5Mbps, 64-QAM) | WLAN    | 8.49     | ±0.6                  |
| 10117 | CAD | IEEE 802.11n (HT Mixed, 13.5Mbps, BPSK)        | WLAN    | 8.57     | ±0.6                  |
| 10118 | CAD | IEEE 802.11n (HT Mixed, 81Mbps, 16-QAM)        | WLAN    | 8.99     | ±0.6                  |
| 10119 | CAD | IEEE 802.11n (HT Mixed, 135Mbps, 64-QAM)       | WLAN    | 8.13     | ±0.6                  |
| 10140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)      | LTE-FDD | 6.49     | ±0.6                  |
| 10141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)      | LTE-FDD | 6.33     | ±0.6                  |
| 10142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)         | LTE-FDD | 6.73     | ±0.6                  |
| 10143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)       | LTE-FDD | 6.35     | ±0.6                  |
| 10144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)       | LTE-FDD | 6.65     | ±0.6                  |
| 10146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, QPSK)       | LTE-FDD | 5.78     | ±0.6                  |
| 10148 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM)     | LTE-FDD | 6.41     | ±0.6                  |
| 10147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM)     | LTE-FDD | 6.72     | ±0.6                  |
| 10149 | CAF | LTE-FDD (SC-FDMA, 50% RB, 30MHz, 16-QAM)       | LTE-FDD | 6.42     | ±0.6                  |
| 10150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 30MHz, 64-QAM)       | LTE-FDD | 6.60     | ±0.6                  |
| 10151 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20MHz, QPSK)         | LTE-FDD | 5.28     | ±0.6                  |
| 10152 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM)       | LTE-FDD | 6.60     | ±0.6                  |
| 10153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)       | LTE-FDD | 10.08    | ±0.6                  |
| 10154 | CAH | LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)         | LTE-FDD | 5.75     | ±0.6                  |
| 10156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)       | LTE-FDD | 6.40     | ±0.6                  |
| 10156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)       | LTE-FDD | 6.70     | ±0.6                  |
| 10157 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)        | LTE-FDD | 6.40     | ±0.6                  |
| 10158 | CAH | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)       | LTE-FDD | 6.82     | ±0.6                  |
| 10159 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)        | LTE-FDD | 6.56     | ±0.6                  |
| 10160 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)         | LTE-FDD | 5.82     | ±0.6                  |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)       | LTE-FDD | 6.43     | ±0.6                  |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)       | LTE-FDD | 6.58     | ±0.6                  |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)        | LTE-FDD | 6.44     | ±0.6                  |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)      | LTE-FDD | 6.21     | ±0.6                  |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM)      | LTE-FDD | 6.79     | ±0.6                  |
| 10169 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)           | LTE-FDD | 5.73     | ±0.6                  |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)         | LTE-FDD | 6.52     | ±0.6                  |
| 10171 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)         | LTE-FDD | 6.48     | ±0.6                  |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK)           | LTE-TDD | 6.21     | ±0.6                  |
| 10173 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)         | LTE-TDD | 6.48     | ±0.6                  |
| 10174 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)         | LTE-TDD | 10.25    | ±0.6                  |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK)           | LTE-FDD | 5.72     | ±0.6                  |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)         | LTE-FDD | 6.52     | ±0.6                  |
| 10177 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, 64-QAM)         | LTE-FDD | 6.73     | ±0.6                  |
| 10177 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)            | LTE-FDD | 5.73     | ±0.6                  |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)          | LTE-FDD | 6.52     | ±0.6                  |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)          | LTE-FDD | 6.50     | ±0.6                  |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)          | LTE-FDD | 6.50     | ±0.6                  |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)           | LTE-FDD | 5.72     | ±0.6                  |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)         | LTE-FDD | 6.52     | ±0.6                  |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)         | LTE-FDD | 6.50     | ±0.6                  |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)            | LTE-FDD | 6.73     | ±0.6                  |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)          | LTE-FDD | 6.51     | ±0.6                  |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)          | LTE-FDD | 6.90     | ±0.6                  |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, QPSK)          | LTE-FDD | 5.73     | ±0.6                  |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)        | LTE-FDD | 6.52     | ±0.6                  |
| 10189 | AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)        | LTE-FDD | 6.90     | ±0.6                  |
| 10193 | CAD | IEEE 802.11n (HT Greenfield, 6.5Mbps, BPSK)    | WLAN    | 8.39     | ±0.6                  |
| 10194 | CAD | IEEE 802.11n (HT Greenfield, 6.5Mbps, 16-QAM)  | WLAN    | 8.12     | ±0.6                  |
| 10195 | CAD | IEEE 802.11n (HT Greenfield, 6.5Mbps, 64-QAM)  | WLAN    | 8.21     | ±0.6                  |
| 10196 | CAD | IEEE 802.11n (HT Mixed, 6.5Mbps, BPSK)         | WLAN    | 8.10     | ±0.6                  |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 30Mbps, 16-QAM)        | WLAN    | 8.13     | ±0.6                  |
| 10198 | CAD | IEEE 802.11n (HT Mixed, 65Mbps, 64-QAM)        | WLAN    | 8.27     | ±0.6                  |
| 10218 | CAD | IEEE 802.11n (HT Mixed, 7.3Mbps, BPSK)         | WLAN    | 8.53     | ±0.6                  |
| 10220 | CAD | IEEE 802.11n (HT Mixed, 15.3Mbps, 16-QAM)      | WLAN    | 8.13     | ±0.6                  |
| 10221 | CAD | IEEE 802.11n (HT Mixed, 72.2Mbps, 64-QAM)      | WLAN    | 8.27     | ±0.6                  |
| 10222 | CAD | IEEE 802.11n (HT Mixed, 15Mbps, BPSK)          | WLAN    | 8.06     | ±0.6                  |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 30Mbps, 16-QAM)        | WLAN    | 8.48     | ±0.6                  |
| 10224 | CAD | IEEE 802.11n (HT Mixed, 150Mbps, 64-QAM)       | WLAN    | 8.58     | ±0.6                  |

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| UID   | Rev | Communication System Name  | Group    | PAR (dB) | Use# | n = 2 |
|-------|-----|--|----------|----------|------|-------|
| 10225 | CAC | UMTS-FDD (HSR4-)   | WCDMA    | 9.97     |      | ±0.5  |
| 10226 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)                               | LTE-TDD  | 9.49     |      | ±0.5  |
| 10227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)                               | LTE-TDD  | 10.25    |      | ±0.5  |
| 10228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)                                 | LTE-TDD  | 9.22     |      | ±0.5  |
| 10229 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)                                 | LTE-TDD  | 9.49     |      | ±0.5  |
| 10230 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)                                 | LTE-TDD  | 10.25    |      | ±0.5  |
| 10231 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)                                   | LTE-TDD  | 9.19     |      | ±0.5  |
| 10232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)                                 | LTE-TDD  | 9.49     |      | ±0.5  |
| 10233 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)                                 | LTE-TDD  | 10.25    |      | ±0.5  |
| 10234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)                                   | LTE-TDD  | 9.21     |      | ±0.5  |
| 10235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)                                | LTE-TDD  | 9.48     |      | ±0.5  |
| 10236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)                                | LTE-TDD  | 10.25    |      | ±0.5  |
| 10237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)                                  | LTE-TDD  | 9.21     |      | ±0.5  |
| 10238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)                                | LTE-TDD  | 9.48     |      | ±0.5  |
| 10239 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)                                | LTE-TDD  | 10.25    |      | ±0.5  |
| 10240 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)                                  | LTE-TDD  | 9.21     |      | ±0.5  |
| 10241 | CAG | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)                             | LTE-TDD  | 9.22     |      | ±0.4  |
| 10242 | CAG | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)                             | LTE-TDD  | 9.86     |      | ±0.5  |
| 10243 | CAG | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)                               | LTE-TDD  | 9.46     |      | ±0.5  |
| 10244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                               | LTE-TDD  | 10.05    |      | ±0.5  |
| 10245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                               | LTE-TDD  | 10.05    |      | ±0.4  |
| 10246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                                 | LTE-TDD  | 9.30     |      | ±0.5  |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)                               | LTE-TDD  | 9.91     |      | ±0.5  |
| 10248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)                               | LTE-TDD  | 10.09    |      | ±0.5  |
| 10249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)                                 | LTE-TDD  | 9.29     |      | ±0.5  |
| 10250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)                              | LTE-TDD  | 9.81     |      | ±0.5  |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)                              | LTE-TDD  | 10.17    |      | ±0.5  |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)                                | LTE-TDD  | 9.24     |      | ±0.5  |
| 10253 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)                              | LTE-TDD  | 9.90     |      | ±0.5  |
| 10254 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)                              | LTE-TDD  | 10.14    |      | ±0.5  |
| 10255 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)                                | LTE-TDD  | 9.20     |      | ±0.5  |
| 10256 | CAG | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)                            | LTE-TDD  | 9.26     |      | ±0.5  |
| 10257 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)                            | LTE-TDD  | 10.08    |      | ±0.5  |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)                              | LTE-TDD  | 9.34     |      | ±0.5  |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)                              | LTE-TDD  | 9.28     |      | ±0.5  |
| 10260 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)                              | LTE-TDD  | 9.97     |      | ±0.5  |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)                                | LTE-TDD  | 9.34     |      | ±0.5  |
| 10262 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)                              | LTE-TDD  | 9.83     |      | ±0.5  |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)                              | LTE-TDD  | 10.18    |      | ±0.5  |
| 10264 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)                                | LTE-TDD  | 9.23     |      | ±0.5  |
| 10265 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)                             | LTE-TDD  | 9.82     |      | ±0.5  |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)                             | LTE-TDD  | 10.27    |      | ±0.5  |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)                               | LTE-TDD  | 9.33     |      | ±0.5  |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)                             | LTE-TDD  | 10.24    |      | ±0.5  |
| 10269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)                             | LTE-TDD  | 10.13    |      | ±0.5  |
| 10270 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                               | LTE-TDD  | 9.58     |      | ±0.5  |
| 10274 | CAC | UMTS-FDD (HSR4, Subnet 5, 30PP RAB 70)                                 | WCDMA    | 4.87     |      | ±0.5  |
| 10275 | CAC | UMTS-FDD (HSR4, Subnet 5, 30PP RAB 4)                                  | WCDMA    | 3.95     |      | ±0.5  |
| 10277 | CAA | PHS (QPSK)   | PHS      | 11.81    |      | ±0.5  |
| 10278 | CAA | PHS (QPSK, BW 800 kHz, Roll-off 0.2)                                   | PHS      | 11.81    |      | ±0.5  |
| 10279 | CAA | PHS (QPSK, BW 800 kHz, Roll-off 0.38)                                  | PHS      | 12.18    |      | ±0.5  |
| 10280 | ANB | CDMA2000, 1X, SC8S, Full Rate  | CDMA2000 | 3.91     |      | ±0.5  |
| 10281 | ANB | CDMA2000, 1X, SC8S, Full Rate  | CDMA2000 | 3.45     |      | ±0.5  |
| 10282 | ANB | CDMA2000, 1X, SC8S, Full Rate  | CDMA2000 | 3.38     |      | ±0.5  |
| 10283 | ANB | CDMA2000, 1X, SC8S, Full Rate  | CDMA2000 | 3.50     |      | ±0.5  |
| 10284 | ANB | CDMA2000, 1X, SC8S, 1/8th Rate 25%                                     | CDMA2000 | 12.49    |      | ±0.5  |
| 10287 | AAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                                | LTE-FDD  | 5.81     |      | ±0.5  |
| 10288 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                                 | LTE-FDD  | 6.72     |      | ±0.5  |
| 10289 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                               | LTE-FDD  | 6.38     |      | ±0.5  |
| 10300 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                               | LTE-FDD  | 6.80     |      | ±0.5  |
| 10301 | AAA | IEEE 802.11a WIMAX (20-18, 5.5ms, 10 MHz, QPSK, PUSC)                  | WIMAX    | 12.03    |      | ±0.5  |
| 10302 | AAA | IEEE 802.11a WIMAX (20-18, 5.5ms, 10 MHz, QPSK, PUSC, 3 CTRF, symbols) | WIMAX    | 12.57    |      | ±0.5  |
| 10303 | AAA | IEEE 802.11a WIMAX (20-18, 5.5ms, 10 MHz, 64QAM, PUSC)                 | WIMAX    | 12.52    |      | ±0.5  |
| 10304 | AAA | IEEE 802.11a WIMAX (20-18, 5.5ms, 10 MHz, 64QAM, PUSC, 15 symbols)     | WIMAX    | 11.38    |      | ±0.5  |
| 10305 | AAA | IEEE 802.11a WIMAX (20-18, 10ms, 10 MHz, 64QAM, PUSC, 15 symbols)      | WIMAX    | 12.24    |      | ±0.5  |
| 10306 | AAA | IEEE 802.11a WIMAX (20-18, 10ms, 10 MHz, 64QAM, PUSC, 15 symbols)      | WIMAX    | 14.67    |      | ±0.5  |

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| UID   | Rev | Communication System Name  | Group    | PRN (dB) | Time <sup>1</sup> s = 2 |
|-------|-----|--|----------|----------|-------------------------|
| 10307 | AAA | IEEE 802.11e WMAX (2S-1E, 10ms, 10 MHz, QPSK, PUSC, 18 symbols)                  | WMAX     | 14.48    | ±0.0                    |
| 10308 | AAA | IEEE 802.11e WMAX (2S-1E, 10ms, 10 MHz, 16QAM, PUSC)                             | WMAX     | 14.48    | ±0.0                    |
| 10309 | AAA | IEEE 802.11e WMAX (2S-1E, 10ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)              | WMAX     | 14.58    | ±0.0                    |
| 10310 | AAA | IEEE 802.11e WMAX (2S-1E, 10ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)               | WMAX     | 14.57    | ±0.0                    |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% PR, 15 MHz, QPSK)   | LTE-FDD  | 6.06     | ±0.0                    |
| 10313 | AAA | IDEN 1-3   | IDEN     | 10.51    | ±0.0                    |
| 10314 | AAA | IDEN 1-5   | IDEN     | 13.48    | ±0.0                    |
| 10315 | AAE | IEEE 802.11b WFI 3.4 GHz (QSSS, 1 Mbps, 90pc duty cycle)                         | WLAN     | 1.71     | ±0.0                    |
| 10316 | AAE | IEEE 802.11g WFI 3.4 GHz (ERP-OFDM, 6 Mbps, 90pc duty cycle)                     | WLAN     | 1.36     | ±0.0                    |
| 10317 | AAE | IEEE 802.11g WFI 3.4 GHz (ERP-OFDM, 6 Mbps, 90pc duty cycle)                     | WLAN     | 1.36     | ±0.0                    |
| 10322 | AAA | Pulse Waveform (200Hz, 10%)  | Generic  | 10.00    | ±0.0                    |
| 10323 | AAA | Pulse Waveform (200Hz, 20%)  | Generic  | 6.00     | ±0.0                    |
| 10324 | AAA | Pulse Waveform (200Hz, 40%)  | Generic  | 3.00     | ±0.0                    |
| 10325 | AAA | Pulse Waveform (200Hz, 60%)  | Generic  | 3.00     | ±0.0                    |
| 10326 | AAA | Pulse Waveform (200Hz, 80%)  | Generic  | 0.07     | ±0.0                    |
| 10327 | AAA | QPSK Waveform, 1 MHz   | Generic  | 5.10     | ±0.0                    |
| 10328 | AAA | QPSK Waveform, 10 MHz  | Generic  | 5.00     | ±0.0                    |
| 10329 | AAA | 64-QAM Waveform, 100 kHz   | Generic  | 6.07     | ±0.0                    |
| 10330 | AAA | 64-QAM Waveform, 40 MHz  | Generic  | 6.07     | ±0.0                    |
| 10400 | AAE | IEEE 802.11ac WFI 20 MHz (64-QAM, 90pc duty cycle)                               | WLAN     | 6.07     | ±0.0                    |
| 10401 | AAE | IEEE 802.11ac WFI 10 MHz (64-QAM, 90pc duty cycle)                               | WLAN     | 6.00     | ±0.0                    |
| 10402 | AAE | IEEE 802.11ac WFI 80 MHz (64-QAM, 90pc duty cycle)                               | WLAN     | 6.00     | ±0.0                    |
| 10403 | AAE | CDMA2000 (1xEV-DO, Rev. 0)   | CDMA2000 | 3.76     | ±0.0                    |
| 10404 | AAE | CDMA2000 (1xEV-DO, Rev. A)   | CDMA2000 | 3.77     | ±0.0                    |
| 10406 | AAE | CDMA2000, RCS, QCS2, SCX3, Full Rate   | CDMA2000 | 5.22     | ±0.0                    |
| 10410 | AAH | LTE-TDD (SC-FDMA, 1 RB, 18 MHz, QPSK, UL, Subframe=2,3,4,7,8,9, Subframe Cont=4) | LTE-TDD  | 7.82     | ±0.0                    |
| 10414 | AAA | WLAN CDF, 64-QAM, 40MHz  | Generic  | 8.54     | ±0.0                    |
| 10415 | AAA | IEEE 802.11n WFI 2.4 GHz (QSSS, 1 Mbps, 90pc duty cycle)                         | WLAN     | 1.54     | ±0.0                    |
| 10416 | AAA | IEEE 802.11g WFI 2.4 GHz (ERP-OFDM, 6 Mbps, 90pc duty cycle)                     | WLAN     | 1.23     | ±0.0                    |
| 10417 | AAE | IEEE 802.11n WFI 2.4 GHz (ERP-OFDM, 6 Mbps, 90pc duty cycle)                     | WLAN     | 1.23     | ±0.0                    |
| 10418 | AAA | IEEE 802.11g WFI 2.4 GHz (QSSS-OFDM, 6 Mbps, 90pc duty cycle, Long preamble)     | WLAN     | 1.14     | ±0.0                    |
| 10419 | AAA | IEEE 802.11g WFI 2.4 GHz (QSSS-OFDM, 6 Mbps, 90pc duty cycle, Short preamble)    | WLAN     | 1.13     | ±0.0                    |
| 10422 | AAE | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                     | WLAN     | 1.32     | ±0.0                    |
| 10423 | AAE | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                  | WLAN     | 1.47     | ±0.0                    |
| 10424 | AAE | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                  | WLAN     | 1.40     | ±0.0                    |
| 10425 | AAE | IEEE 802.11n (HT Greenfield, 156 Mbps, BPSK)                                     | WLAN     | 1.41     | ±0.0                    |
| 10426 | AAE | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                    | WLAN     | 1.45     | ±0.0                    |
| 10427 | AAE | IEEE 802.11n (HT Greenfield, 156 Mbps, 64-QAM)                                   | WLAN     | 1.41     | ±0.0                    |
| 10430 | AAE | LTE-FDD (SC-FDMA, 3 MHz, E-TM 3.1)   | LTE-FDD  | 6.28     | ±0.0                    |
| 10431 | AAE | LTE-FDD (SC-FDMA, 10 MHz, E-TM 3.1)  | LTE-FDD  | 6.38     | ±0.0                    |
| 10432 | AAE | LTE-FDD (SC-FDMA, 15 MHz, E-TM 3.1)  | LTE-FDD  | 6.34     | ±0.0                    |
| 10433 | AAE | LTE-FDD (SC-FDMA, 20 MHz, E-TM 3.1)  | LTE-FDD  | 6.34     | ±0.0                    |
| 10434 | AAE | W-CDMA (HS Test Model 1, 54 DPCCH)   | WCDMA    | 6.00     | ±0.0                    |
| 10435 | AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL, Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | ±0.0                    |
| 10447 | AAE | LTE-FDD (SC-FDMA, 5 MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.56     | ±0.0                    |
| 10448 | AAE | LTE-FDD (SC-FDMA, 10 MHz, E-TM 3.1, Clipping 44%)                                | LTE-FDD  | 7.50     | ±0.0                    |
| 10449 | AAE | LTE-FDD (SC-FDMA, 15 MHz, E-TM 3.1, Clipping 44%)                                | LTE-FDD  | 7.51     | ±0.0                    |
| 10450 | AAE | LTE-FDD (SC-FDMA, 20 MHz, E-TM 3.1, Clipping 44%)                                | LTE-FDD  | 7.40     | ±0.0                    |
| 10451 | AAE | W-CDMA (HS Test Model 1, 64 DPCCH, Clipping 44%)                                 | WCDMA    | 7.59     | ±0.0                    |
| 10453 | AAE | Validation (Square, 16ms, 1 ms)  | Test     | 10.00    | ±0.0                    |
| 10456 | AAE | IEEE 802.11ac WFI (160 MHz, 64-QAM, 90pc duty cycle)                             | WLAN     | 6.00     | ±0.0                    |
| 10457 | AAE | UMTS FDD (SC-FSS)  | WCDMA    | 6.00     | ±0.0                    |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)   | CDMA2000 | 6.00     | ±0.0                    |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)   | CDMA2000 | 6.00     | ±0.0                    |
| 10460 | AAE | UMTS FDD (WCDMA, AVF)  | WCDMA    | 2.00     | ±0.0                    |
| 10481 | AAE | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL, Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 7.82     | ±0.0                    |
| 10482 | AAE | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.00     | ±0.0                    |
| 10483 | AAE | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.00     | ±0.0                    |
| 10484 | AAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL, Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | ±0.0                    |
| 10485 | AAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | ±0.0                    |
| 10486 | AAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.57     | ±0.0                    |
| 10487 | AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL, Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | ±0.0                    |
| 10488 | AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | ±0.0                    |
| 10489 | AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.58     | ±0.0                    |
| 10490 | AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL, Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | ±0.0                    |
| 10491 | AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9)                | LTE-TDD  | 8.32     | ±0.0                    |



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EX3DV4 - SN:7574

July 18, 2023

| SRD   | Rev | Communication System Name   | Group   | PAR (dB) | Unc <sup>2</sup> k = 2 |
|-------|-----|---|---------|----------|------------------------|
| 10472 | AAQ | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.57     | ±0.1                   |
| 10473 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)       | LTE-TDD | 7.92     | ±0.6                   |
| 10474 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.32     | ±0.6                   |
| 10475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.57     | ±0.6                   |
| 10477 | AAQ | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.32     | ±0.6                   |
| 10478 | AAQ | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.57     | ±0.6                   |
| 10479 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.74     | ±0.6                   |
| 10480 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.18     | ±0.6                   |
| 10481 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.45     | ±0.6                   |
| 10482 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)      | LTE-TDD | 7.71     | ±0.6                   |
| 10483 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.29     | ±0.6                   |
| 10484 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.47     | ±0.6                   |
| 10485 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)      | LTE-TDD | 7.55     | ±0.6                   |
| 10486 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.34     | ±0.6                   |
| 10487 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.69     | ±0.6                   |
| 10488 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.70     | ±0.6                   |
| 10489 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.31     | ±0.6                   |
| 10490 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±0.6                   |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.74     | ±0.6                   |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.41     | ±0.6                   |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.55     | ±0.6                   |
| 10494 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 20MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.74     | ±0.6                   |
| 10495 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.37     | ±0.6                   |
| 10496 | AAQ | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±0.6                   |
| 10497 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.67     | ±0.4                   |
| 10498 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.45     | ±0.4                   |
| 10499 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.68     | ±0.4                   |
| 10500 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.67     | ±0.6                   |
| 10501 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.44     | ±0.6                   |
| 10502 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.52     | ±0.6                   |
| 10503 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.72     | ±0.6                   |
| 10504 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.31     | ±0.6                   |
| 10505 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±0.6                   |
| 10506 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.74     | ±0.6                   |
| 10507 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.36     | ±0.6                   |
| 10508 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.55     | ±0.6                   |
| 10509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.69     | ±0.6                   |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.49     | ±0.6                   |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.51     | ±0.6                   |
| 10512 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 20MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.74     | ±0.6                   |
| 10513 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.42     | ±0.6                   |
| 10514 | AAQ | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.45     | ±0.6                   |
| 10515 | AAA | IEEE 802.11d WIF 2.4 GHz (256Q, 2Mbps, 90pc duty cycle)             | WLAN    | 1.58     | ±0.4                   |
| 10516 | AAA | IEEE 802.11b WIF 2.4 GHz (256Q, 5.5Mbps, 90pc duty cycle)           | WLAN    | 1.57     | ±0.6                   |
| 10517 | AAA | IEEE 802.11g WIF 2.4 GHz (256Q, 11Mbps, 90pc duty cycle)            | WLAN    | 1.58     | ±0.6                   |
| 10518 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 9Mbps, 90pc duty cycle)              | WLAN    | 8.23     | ±0.6                   |
| 10519 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 18Mbps, 90pc duty cycle)             | WLAN    | 8.39     | ±0.6                   |
| 10520 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 18Mbps, 90pc duty cycle)             | WLAN    | 8.12     | ±0.6                   |
| 10521 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 24Mbps, 90pc duty cycle)             | WLAN    | 7.97     | ±0.6                   |
| 10522 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 36Mbps, 90pc duty cycle)             | WLAN    | 8.45     | ±0.6                   |
| 10523 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 48Mbps, 90pc duty cycle)             | WLAN    | 8.08     | ±0.6                   |
| 10524 | AAQ | IEEE 802.11ac WIF 5 GHz (QPSK, 54Mbps, 90pc duty cycle)             | WLAN    | 8.27     | ±0.6                   |
| 10525 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS3, 90pc duty cycle)                   | WLAN    | 8.35     | ±0.6                   |
| 10526 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS1, 90pc duty cycle)                   | WLAN    | 8.42     | ±0.6                   |
| 10527 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS2, 90pc duty cycle)                   | WLAN    | 8.21     | ±0.6                   |
| 10528 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS3, 90pc duty cycle)                   | WLAN    | 8.39     | ±0.6                   |
| 10529 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS4, 90pc duty cycle)                   | WLAN    | 8.35     | ±0.6                   |
| 10530 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS5, 90pc duty cycle)                   | WLAN    | 8.43     | ±0.6                   |
| 10531 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS7, 90pc duty cycle)                   | WLAN    | 8.29     | ±0.6                   |
| 10532 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS8, 90pc duty cycle)                   | WLAN    | 8.35     | ±0.6                   |
| 10533 | AAQ | IEEE 802.11ac WIF (20 MHz, MCS9, 90pc duty cycle)                   | WLAN    | 8.45     | ±0.6                   |
| 10534 | AAQ | IEEE 802.11ac WIF (40 MHz, MCS3, 90pc duty cycle)                   | WLAN    | 8.45     | ±0.6                   |
| 10535 | AAQ | IEEE 802.11ac WIF (40 MHz, MCS1, 90pc duty cycle)                   | WLAN    | 8.33     | ±0.6                   |
| 10536 | AAQ | IEEE 802.11ac WIF (40 MHz, MCS2, 90pc duty cycle)                   | WLAN    | 8.43     | ±0.6                   |
| 10537 | AAQ | IEEE 802.11ac WIF (40 MHz, MCS3, 90pc duty cycle)                   | WLAN    | 8.44     | ±0.6                   |
| 10538 | AAQ | IEEE 802.11ac WIF (40 MHz, MCS4, 90pc duty cycle)                   | WLAN    | 8.54     | ±0.6                   |
| 10540 | AAQ | IEEE 802.11ac WIF (40 MHz, MCS8, 90pc duty cycle)                   | WLAN    | 8.29     | ±0.6                   |

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| MRD   | Rev | Communication System Name                                       | Group | PAR (dB) | Time <sup>1</sup> A = 2 |
|-------|-----|---|-------|----------|-------------------------|
| 10541 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)              | WLAN  | 8.48     | ±0.5                    |
| 10542 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)              | WLAN  | 8.55     | ±0.5                    |
| 10543 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)              | WLAN  | 8.62     | ±0.5                    |
| 10544 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)              | WLAN  | 8.47     | ±0.5                    |
| 10545 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS11, 90pc duty cycle)             | WLAN  | 8.55     | ±0.5                    |
| 10546 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)              | WLAN  | 8.38     | ±0.5                    |
| 10547 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)              | WLAN  | 8.48     | ±0.5                    |
| 10548 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)              | WLAN  | 8.37     | ±0.5                    |
| 10550 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)              | WLAN  | 8.38     | ±0.5                    |
| 10551 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)              | WLAN  | 8.50     | ±0.5                    |
| 10562 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)              | WLAN  | 8.45     | ±0.5                    |
| 10563 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)              | WLAN  | 8.45     | ±0.5                    |
| 10564 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)              | WLAN  | 8.48     | ±0.5                    |
| 10565 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)             | WLAN  | 8.27     | ±0.5                    |
| 10566 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)             | WLAN  | 8.50     | ±0.5                    |
| 10567 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)             | WLAN  | 8.52     | ±0.5                    |
| 10568 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)             | WLAN  | 8.51     | ±0.5                    |
| 10569 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)             | WLAN  | 8.73     | ±0.5                    |
| 10569 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)             | WLAN  | 8.56     | ±0.5                    |
| 10569 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)             | WLAN  | 8.69     | ±0.5                    |
| 10569 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)             | WLAN  | 8.77     | ±0.5                    |
| 10594 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | WLAN  | 8.25     | ±0.5                    |
| 10595 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN  | 8.45     | ±0.5                    |
| 10596 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN  | 8.13     | ±0.5                    |
| 10597 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN  | 8.00     | ±0.5                    |
| 10598 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 30 Mbps, 90pc duty cycle) | WLAN  | 8.37     | ±0.5                    |
| 10599 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN  | 8.10     | ±0.5                    |
| 10600 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN  | 8.30     | ±0.5                    |
| 10601 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN  | 8.39     | ±0.5                    |
| 10602 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | WLAN  | 1.99     | ±0.5                    |
| 10603 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | WLAN  | 1.99     | ±0.5                    |
| 10604 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | WLAN  | 1.38     | ±0.5                    |
| 10604 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | WLAN  | 1.84     | ±0.5                    |
| 10605 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | WLAN  | 3.59     | ±0.5                    |
| 10606 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 2 Mbps, 90pc duty cycle)  | WLAN  | 3.53     | ±0.5                    |
| 10607 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN  | 3.70     | ±0.5                    |
| 10608 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN  | 3.49     | ±0.5                    |
| 10609 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN  | 3.58     | ±0.5                    |
| 10610 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 30 Mbps, 90pc duty cycle) | WLAN  | 3.76     | ±0.5                    |
| 10611 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN  | 3.38     | ±0.5                    |
| 10612 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN  | 3.67     | ±0.5                    |
| 10613 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN  | 3.59     | ±0.5                    |
| 10614 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 9 Mbps, 90pc duty cycle)        | WLAN  | 8.65     | ±0.5                    |
| 10615 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 12 Mbps, 90pc duty cycle)       | WLAN  | 8.70     | ±0.5                    |
| 10616 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 18 Mbps, 90pc duty cycle)       | WLAN  | 8.49     | ±0.5                    |
| 10617 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 24 Mbps, 90pc duty cycle)       | WLAN  | 8.58     | ±0.5                    |
| 10618 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 30 Mbps, 90pc duty cycle)       | WLAN  | 8.76     | ±0.5                    |
| 10619 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 48 Mbps, 90pc duty cycle)       | WLAN  | 8.38     | ±0.5                    |
| 10620 | AAC | IEEE 802.11ah WiFi 8 GHz (OFDM, 54 Mbps, 90pc duty cycle)       | WLAN  | 8.67     | ±0.5                    |
| 10681 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)          | WLAN  | 8.68     | ±0.5                    |
| 10682 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)          | WLAN  | 8.70     | ±0.5                    |
| 10683 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)          | WLAN  | 8.64     | ±0.5                    |
| 10684 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)          | WLAN  | 8.74     | ±0.5                    |
| 10685 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)          | WLAN  | 8.74     | ±0.5                    |
| 10686 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)          | WLAN  | 8.71     | ±0.5                    |
| 10687 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)          | WLAN  | 8.72     | ±0.5                    |
| 10688 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)          | WLAN  | 8.60     | ±0.5                    |
| 10689 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS8, 90pc duty cycle)          | WLAN  | 8.79     | ±0.5                    |
| 10690 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS9, 90pc duty cycle)          | WLAN  | 8.68     | ±0.5                    |
| 10691 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)          | WLAN  | 8.82     | ±0.5                    |
| 10692 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)          | WLAN  | 8.94     | ±0.5                    |
| 10693 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)          | WLAN  | 8.93     | ±0.5                    |
| 10694 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)          | WLAN  | 8.70     | ±0.5                    |
| 10695 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)          | WLAN  | 8.97     | ±0.5                    |
| 10696 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)          | WLAN  | 8.82     | ±0.5                    |
| 10697 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)              | WLAN  | 8.64     | ±0.5                    |
| 10698 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)              | WLAN  | 8.77     | ±0.5                    |

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| UID   | Rev | Communication System Name                             | Group      | PAR (dB) | Unc <sup>2</sup> k = 2 |
|-------|-----|---|------------|----------|------------------------|
| 10603 | AAC | IEEE 802.11ac WPI (20MHz, MCS9, 90pc duty cycle)      | WLAN       | 3.57     | +0.5                   |
| 10610 | AAC | IEEE 802.11ac WPI (20MHz, MCS9, 90pc duty cycle)      | WLAN       | 3.73     | +0.5                   |
| 10611 | AAC | IEEE 802.11ac WPI (20MHz, MCS4, 90pc duty cycle)      | WLAN       | 3.73     | +0.5                   |
| 10612 | AAC | IEEE 802.11ac WPI (20MHz, MCS5, 90pc duty cycle)      | WLAN       | 3.77     | +0.5                   |
| 10613 | AAC | IEEE 802.11ac WPI (20MHz, MCS6, 90pc duty cycle)      | WLAN       | 3.84     | +0.5                   |
| 10614 | AAC | IEEE 802.11ac WPI (20MHz, MCS7, 90pc duty cycle)      | WLAN       | 3.92     | +0.5                   |
| 10615 | AAC | IEEE 802.11ac WPI (20MHz, MCS8, 90pc duty cycle)      | WLAN       | 3.82     | +0.5                   |
| 10616 | AAC | IEEE 802.11ac WPI (40MHz, MCS0, 90pc duty cycle)      | WLAN       | 3.69     | +0.5                   |
| 10617 | AAC | IEEE 802.11ac WPI (40MHz, MCS1, 90pc duty cycle)      | WLAN       | 3.81     | +0.5                   |
| 10618 | AAC | IEEE 802.11ac WPI (40MHz, MCS2, 90pc duty cycle)      | WLAN       | 3.98     | +0.5                   |
| 10619 | AAC | IEEE 802.11ac WPI (40MHz, MCS3, 90pc duty cycle)      | WLAN       | 3.98     | +0.5                   |
| 10620 | AAC | IEEE 802.11ac WPI (40MHz, MCS4, 90pc duty cycle)      | WLAN       | 3.97     | +0.5                   |
| 10621 | AAC | IEEE 802.11ac WPI (40MHz, MCS5, 90pc duty cycle)      | WLAN       | 4.07     | +0.5                   |
| 10622 | AAC | IEEE 802.11ac WPI (40MHz, MCS6, 90pc duty cycle)      | WLAN       | 3.98     | +0.5                   |
| 10623 | AAC | IEEE 802.11ac WPI (40MHz, MCS7, 90pc duty cycle)      | WLAN       | 4.02     | +0.5                   |
| 10624 | AAC | IEEE 802.11ac WPI (40MHz, MCS8, 90pc duty cycle)      | WLAN       | 3.96     | +0.5                   |
| 10625 | AAC | IEEE 802.11ac WPI (40MHz, MCS9, 90pc duty cycle)      | WLAN       | 3.96     | +0.5                   |
| 10626 | AAC | IEEE 802.11ac WPI (80MHz, MCS0, 90pc duty cycle)      | WLAN       | 3.83     | +0.5                   |
| 10627 | AAC | IEEE 802.11ac WPI (80MHz, MCS1, 90pc duty cycle)      | WLAN       | 3.89     | +0.5                   |
| 10628 | AAC | IEEE 802.11ac WPI (80MHz, MCS2, 90pc duty cycle)      | WLAN       | 3.71     | +0.5                   |
| 10629 | AAC | IEEE 802.11ac WPI (80MHz, MCS3, 90pc duty cycle)      | WLAN       | 3.85     | +0.5                   |
| 10630 | AAC | IEEE 802.11ac WPI (80MHz, MCS4, 90pc duty cycle)      | WLAN       | 3.79     | +0.5                   |
| 10631 | AAC | IEEE 802.11ac WPI (80MHz, MCS5, 90pc duty cycle)      | WLAN       | 3.87     | +0.5                   |
| 10632 | AAC | IEEE 802.11ac WPI (80MHz, MCS6, 90pc duty cycle)      | WLAN       | 3.74     | +0.5                   |
| 10633 | AAC | IEEE 802.11ac WPI (80MHz, MCS7, 90pc duty cycle)      | WLAN       | 3.83     | +0.5                   |
| 10634 | AAC | IEEE 802.11ac WPI (80MHz, MCS8, 90pc duty cycle)      | WLAN       | 3.85     | +0.5                   |
| 10635 | AAC | IEEE 802.11ac WPI (80MHz, MCS9, 90pc duty cycle)      | WLAN       | 3.87     | +0.5                   |
| 10636 | AAD | IEEE 802.11ac WPI (160MHz, MCS0, 90pc duty cycle)     | WLAN       | 3.83     | +0.5                   |
| 10637 | AAD | IEEE 802.11ac WPI (160MHz, MCS1, 90pc duty cycle)     | WLAN       | 3.79     | +0.5                   |
| 10638 | AAD | IEEE 802.11ac WPI (160MHz, MCS2, 90pc duty cycle)     | WLAN       | 3.86     | +0.5                   |
| 10639 | AAD | IEEE 802.11ac WPI (160MHz, MCS3, 90pc duty cycle)     | WLAN       | 3.85     | +0.5                   |
| 10640 | AAD | IEEE 802.11ac WPI (160MHz, MCS4, 90pc duty cycle)     | WLAN       | 3.98     | +0.5                   |
| 10641 | AAD | IEEE 802.11ac WPI (160MHz, MCS5, 90pc duty cycle)     | WLAN       | 3.96     | +0.5                   |
| 10642 | AAD | IEEE 802.11ac WPI (160MHz, MCS6, 90pc duty cycle)     | WLAN       | 3.95     | +0.5                   |
| 10643 | AAD | IEEE 802.11ac WPI (160MHz, MCS7, 90pc duty cycle)     | WLAN       | 3.99     | +0.5                   |
| 10644 | AAD | IEEE 802.11ac WPI (160MHz, MCS8, 90pc duty cycle)     | WLAN       | 3.95     | +0.5                   |
| 10645 | AAD | IEEE 802.11ac WPI (160MHz, MCS9, 90pc duty cycle)     | WLAN       | 3.91     | +0.5                   |
| 10646 | AAL | LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL, Subframe=2,7) | LTE-TDD    | 11.96    | +0.5                   |
| 10647 | AAL | LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL, Subframe=2,7) | LTE-TDD    | 11.96    | +0.5                   |
| 10648 | AAL | CDMA2000 (1x Advanced)                                | CDMA2000   | 3.45     | +0.5                   |
| 10652 | AAP | LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)         | LTE-TDD    | 6.91     | +0.5                   |
| 10653 | AAP | LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD    | 7.42     | +0.5                   |
| 10654 | AAP | LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD    | 6.96     | +0.5                   |
| 10655 | AAP | LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)         | LTE-TDD    | 7.21     | +0.5                   |
| 10658 | AAB | Pulse Waveform (200Hz, 10%)                           | Test       | 10.93    | +0.5                   |
| 10659 | AAB | Pulse Waveform (200Hz, 20%)                           | Test       | 6.99     | +0.5                   |
| 10660 | AAB | Pulse Waveform (200Hz, 40%)                           | Test       | 3.99     | +0.5                   |
| 10661 | AAB | Pulse Waveform (200Hz, 60%)                           | Test       | 2.99     | +0.5                   |
| 10662 | AAB | Pulse Waveform (200Hz, 80%)                           | Test       | 0.97     | +0.5                   |
| 10670 | AAN | Bussesseth Low Energy                                 | Bussesseth | 2.73     | +0.5                   |
| 10671 | AAC | IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)          | WLAN       | 3.89     | +0.5                   |
| 10672 | AAC | IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)          | WLAN       | 3.57     | +0.5                   |
| 10673 | AAC | IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)          | WLAN       | 3.73     | +0.5                   |
| 10674 | AAC | IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)          | WLAN       | 3.74     | +0.5                   |
| 10675 | AAC | IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)          | WLAN       | 3.86     | +0.5                   |
| 10676 | AAC | IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)          | WLAN       | 3.77     | +0.5                   |
| 10677 | AAC | IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)          | WLAN       | 3.73     | +0.5                   |
| 10678 | AAC | IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)          | WLAN       | 3.76     | +0.5                   |
| 10679 | AAC | IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)          | WLAN       | 3.89     | +0.5                   |
| 10680 | AAC | IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)          | WLAN       | 3.80     | +0.5                   |
| 10681 | AAC | IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)         | WLAN       | 3.62     | +0.5                   |
| 10682 | AAC | IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)         | WLAN       | 3.83     | +0.5                   |
| 10683 | AAC | IEEE 802.11ax (20MHz, MCS12, 90pc duty cycle)         | WLAN       | 3.42     | +0.5                   |
| 10684 | AAC | IEEE 802.11ax (20MHz, MCS13, 90pc duty cycle)         | WLAN       | 3.26     | +0.5                   |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS14, 90pc duty cycle)         | WLAN       | 3.33     | +0.5                   |
| 10686 | AAC | IEEE 802.11ax (20MHz, MCS15, 90pc duty cycle)         | WLAN       | 3.28     | +0.5                   |



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EX3DV4 - SN:7574

July 10, 2023

| UID   | Rev | Communication System Name                      | Group | PRF (dB) | Line <sup>1</sup> k = 3 |
|-------|-----|--|-------|----------|-------------------------|
| 10687 | AAC | IEEE 802.11ax (30 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.45     | ±0.8                    |
| 10688 | AAC | IEEE 802.11ax (30 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.29     | ±0.8                    |
| 10689 | AAC | IEEE 802.11ax (30 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.55     | ±0.8                    |
| 10690 | AAC | IEEE 802.11ax (30 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.20     | ±0.8                    |
| 10691 | AAC | IEEE 802.11ax (30 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.25     | ±0.8                    |
| 10692 | AAC | IEEE 802.11ax (30 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.20     | ±0.8                    |
| 10693 | AAC | IEEE 802.11ax (30 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.25     | ±0.8                    |
| 10694 | AAC | IEEE 802.11ax (30 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.27     | ±0.8                    |
| 10695 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.78     | ±0.8                    |
| 10696 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.81     | ±0.8                    |
| 10697 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.81     | ±0.8                    |
| 10698 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.82     | ±0.8                    |
| 10699 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.82     | ±0.8                    |
| 10700 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.75     | ±0.8                    |
| 10701 | AAC | IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.88     | ±0.8                    |
| 10702 | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.70     | ±0.8                    |
| 10703 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.62     | ±0.8                    |
| 10704 | AAC | IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.56     | ±0.8                    |
| 10705 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.69     | ±0.8                    |
| 10706 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.66     | ±0.8                    |
| 10707 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.32     | ±0.8                    |
| 10708 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.25     | ±0.8                    |
| 10709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.33     | ±0.8                    |
| 10710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.20     | ±0.8                    |
| 10711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.29     | ±0.8                    |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.87     | ±0.8                    |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.33     | ±0.8                    |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.28     | ±0.8                    |
| 10715 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.45     | ±0.8                    |
| 10716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.30     | ±0.8                    |
| 10717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.48     | ±0.8                    |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.24     | ±0.8                    |
| 10719 | AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.21     | ±0.8                    |
| 10720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.67     | ±0.8                    |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.78     | ±0.8                    |
| 10722 | AAC | IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.55     | ±0.8                    |
| 10723 | AAC | IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.70     | ±0.8                    |
| 10724 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.90     | ±0.8                    |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.74     | ±0.8                    |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.72     | ±0.8                    |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.60     | ±0.8                    |
| 10728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.69     | ±0.8                    |
| 10729 | AAC | IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.54     | ±0.8                    |
| 10730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.27     | ±0.8                    |
| 10731 | AAC | IEEE 802.11ax (90 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.42     | ±0.8                    |
| 10732 | AAC | IEEE 802.11ax (90 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.44     | ±0.8                    |
| 10733 | AAC | IEEE 802.11ax (90 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.43     | ±0.8                    |
| 10734 | AAC | IEEE 802.11ax (90 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.25     | ±0.8                    |
| 10735 | AAC | IEEE 802.11ax (90 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.33     | ±0.8                    |
| 10736 | AAC | IEEE 802.11ax (90 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.27     | ±0.8                    |
| 10737 | AAC | IEEE 802.11ax (90 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.38     | ±0.8                    |
| 10738 | AAC | IEEE 802.11ax (90 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.42     | ±0.8                    |
| 10739 | AAC | IEEE 802.11ax (90 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.20     | ±0.8                    |
| 10740 | AAC | IEEE 802.11ax (90 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.48     | ±0.8                    |
| 10741 | AAC | IEEE 802.11ax (90 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.40     | ±0.8                    |
| 10742 | AAC | IEEE 802.11ax (90 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.43     | ±0.8                    |
| 10743 | AAC | IEEE 802.11ax (100 MHz, MCS0, 90pc duty cycle) | WLAN  | 8.94     | ±0.8                    |
| 10744 | AAC | IEEE 802.11ax (100 MHz, MCS1, 90pc duty cycle) | WLAN  | 9.16     | ±0.8                    |
| 10745 | AAC | IEEE 802.11ax (100 MHz, MCS2, 90pc duty cycle) | WLAN  | 8.20     | ±0.8                    |
| 10746 | AAC | IEEE 802.11ax (100 MHz, MCS3, 90pc duty cycle) | WLAN  | 8.11     | ±0.8                    |
| 10747 | AAC | IEEE 802.11ax (100 MHz, MCS4, 90pc duty cycle) | WLAN  | 9.04     | ±0.8                    |
| 10748 | AAC | IEEE 802.11ax (100 MHz, MCS5, 90pc duty cycle) | WLAN  | 8.93     | ±0.8                    |
| 10749 | AAC | IEEE 802.11ax (100 MHz, MCS6, 90pc duty cycle) | WLAN  | 8.99     | ±0.8                    |
| 10750 | AAC | IEEE 802.11ax (100 MHz, MCS7, 90pc duty cycle) | WLAN  | 8.79     | ±0.8                    |
| 10751 | AAC | IEEE 802.11ax (100 MHz, MCS8, 90pc duty cycle) | WLAN  | 8.82     | ±0.8                    |
| 10752 | AAC | IEEE 802.11ax (100 MHz, MCS9, 90pc duty cycle) | WLAN  | 8.81     | ±0.8                    |

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July 10, 2023

| UID   | Rev | Communication System Name                      | Group         | PAR (dB) | Unc <sup>2</sup> k = 2 |
|-------|-----|--|---------------|----------|------------------------|
| 10753 | AAC | IEEE 802.11ax (160MHz, MCS15, 90pc duty cycle) | WLAN          | 8.00     | ±0.5                   |
| 10754 | AAC | IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) | WLAN          | 8.54     | ±0.5                   |
| 10755 | AAC | IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)  | WLAN          | 8.64     | ±0.5                   |
| 10756 | AAC | IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)  | WLAN          | 8.77     | ±0.5                   |
| 10757 | AAC | IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)  | WLAN          | 8.77     | ±0.5                   |
| 10758 | AAC | IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)  | WLAN          | 8.68     | ±0.5                   |
| 10759 | AAC | IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)  | WLAN          | 8.49     | ±0.5                   |
| 10761 | AAC | IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)  | WLAN          | 8.58     | ±0.5                   |
| 10762 | AAC | IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)  | WLAN          | 8.40     | ±0.5                   |
| 10763 | AAC | IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)  | WLAN          | 8.33     | ±0.5                   |
| 10764 | AAC | IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)  | WLAN          | 8.54     | ±0.5                   |
| 10765 | AAC | IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle) | WLAN          | 8.54     | ±0.5                   |
| 10766 | AAC | IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) | WLAN          | 8.51     | ±0.5                   |
| 10767 | AAE | 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15kHz)       | 5G NR FR1 TDD | 7.99     | ±0.5                   |
| 10768 | AAE | 5G NR (CP-OFDM, 1 RB, 10MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.01     | ±0.5                   |
| 10769 | AAE | 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.01     | ±0.5                   |
| 10770 | AAE | 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.02     | ±0.5                   |
| 10771 | AAE | 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.02     | ±0.5                   |
| 10772 | AAE | 5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.03     | ±0.5                   |
| 10773 | AAE | 5G NR (CP-OFDM, 1 RB, 40MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.03     | ±0.5                   |
| 10774 | AAE | 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 15kHz)      | 5G NR FR1 TDD | 8.03     | ±0.5                   |
| 10775 | AAE | 5G NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15kHz)     | 5G NR FR1 TDD | 8.31     | ±0.5                   |
| 10776 | AAE | 5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.30     | ±0.5                   |
| 10777 | AAE | 5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.30     | ±0.5                   |
| 10778 | AAE | 5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.34     | ±0.5                   |
| 10779 | AAE | 5G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.43     | ±0.5                   |
| 10780 | AAE | 5G NR (CP-OFDM, 50% RB, 30MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.38     | ±0.5                   |
| 10781 | AAE | 5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.38     | ±0.5                   |
| 10782 | AAE | 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.43     | ±0.5                   |
| 10783 | AAE | 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz)    | 5G NR FR1 TDD | 8.31     | ±0.5                   |
| 10784 | AAE | 5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.39     | ±0.5                   |
| 10785 | AAE | 5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.40     | ±0.5                   |
| 10786 | AAE | 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.35     | ±0.5                   |
| 10787 | AAE | 5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.44     | ±0.5                   |
| 10788 | AAE | 5G NR (CP-OFDM, 100% RB, 30MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.39     | ±0.5                   |
| 10789 | AAE | 5G NR (CP-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.37     | ±0.5                   |
| 10790 | AAE | 5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   | 5G NR FR1 TDD | 8.39     | ±0.5                   |
| 10791 | AAE | 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30kHz)       | 5G NR FR1 TDD | 7.80     | ±0.5                   |
| 10792 | AAE | 5G NR (CP-OFDM, 1 RB, 10MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.92     | ±0.5                   |
| 10793 | AAE | 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.95     | ±0.5                   |
| 10794 | AAE | 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.92     | ±0.5                   |
| 10795 | AAE | 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.84     | ±0.5                   |
| 10796 | AAE | 5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.82     | ±0.5                   |
| 10797 | AAE | 5G NR (CP-OFDM, 1 RB, 40MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 8.01     | ±0.5                   |
| 10798 | AAE | 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.89     | ±0.5                   |
| 10799 | AAE | 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.93     | ±0.5                   |
| 10801 | AAE | 5G NR (CP-OFDM, 1 RB, 60MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.89     | ±0.5                   |
| 10802 | AAE | 5G NR (CP-OFDM, 1 RB, 80MHz, QPSK, 30kHz)      | 5G NR FR1 TDD | 7.87     | ±0.5                   |
| 10803 | AAE | 5G NR (CP-OFDM, 1 RB, 100MHz, QPSK, 30kHz)     | 5G NR FR1 TDD | 7.93     | ±0.5                   |
| 10805 | AAE | 5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.34     | ±0.5                   |
| 10806 | AAE | 5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.37     | ±0.5                   |
| 10807 | AAE | 5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.34     | ±0.5                   |
| 10810 | AAE | 5G NR (CP-OFDM, 50% RB, 30MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.34     | ±0.5                   |
| 10811 | AAE | 5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.34     | ±0.5                   |
| 10812 | AAE | 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.38     | ±0.5                   |
| 10817 | AAE | 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30kHz)    | 5G NR FR1 TDD | 8.35     | ±0.5                   |
| 10818 | AAE | 5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.34     | ±0.5                   |
| 10819 | AAE | 5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.38     | ±0.5                   |
| 10820 | AAE | 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.30     | ±0.5                   |
| 10821 | AAE | 5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.41     | ±0.5                   |
| 10822 | AAE | 5G NR (CP-OFDM, 100% RB, 30MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.41     | ±0.5                   |
| 10823 | AAE | 5G NR (CP-OFDM, 100% RB, 40MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.36     | ±0.5                   |
| 10824 | AAE | 5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.39     | ±0.5                   |
| 10825 | AAE | 5G NR (CP-OFDM, 100% RB, 60MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.41     | ±0.5                   |
| 10827 | AAE | 5G NR (CP-OFDM, 100% RB, 80MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.42     | ±0.5                   |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90MHz, QPSK, 30kHz)   | 5G NR FR1 TDD | 8.43     | ±0.5                   |

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EX3DV4 - SN:7574

July 18, 2023

| UID   | Rev | Communication System Name                          | Group         | PAR (dB) | Unc <sup>k</sup> k = 2 |
|-------|-----|--|---------------|----------|------------------------|
| 10826 | AAD | 5G NR (CP-OFDM, 100% RB, 120 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 8.40     | ±0.6                   |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.65     | ±0.6                   |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.75     | ±0.6                   |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.74     | ±0.6                   |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.70     | ±0.6                   |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.75     | ±0.6                   |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.70     | ±0.6                   |
| 10836 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.55     | ±0.6                   |
| 10837 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.60     | ±0.6                   |
| 10838 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.70     | ±0.6                   |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 7.87     | ±0.6                   |
| 10841 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 7.71     | ±0.6                   |
| 10843 | AAD | 5G NR (CP-OFDM, 60% RB, 15 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.43     | ±0.6                   |
| 10844 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.34     | ±0.6                   |
| 10846 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41     | ±0.6                   |
| 10864 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.34     | ±0.6                   |
| 10866 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.36     | ±0.6                   |
| 10868 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.37     | ±0.6                   |
| 10867 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.36     | ±0.6                   |
| 10868 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.36     | ±0.6                   |
| 10869 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.34     | ±0.6                   |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.41     | ±0.6                   |
| 10891 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.40     | ±0.6                   |
| 10893 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.61     | ±0.6                   |
| 10894 | AAD | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 8.37     | ±0.6                   |
| 10895 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)    | 5G NR FR1 TDD | 8.41     | ±0.6                   |
| 10896 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.65     | ±0.6                   |
| 10898 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.89     | ±0.6                   |
| 10899 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75     | ±0.6                   |
| 10900 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.85     | ±0.6                   |
| 10901 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 180QAM, 120 kHz)    | 5G NR FR2 TDD | 5.75     | ±0.6                   |
| 10902 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 180QAM, 120 kHz) | 5G NR FR2 TDD | 5.52     | ±0.6                   |
| 10903 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 4.61     | ±0.6                   |
| 10904 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)  | 5G NR FR2 TDD | 4.65     | ±0.6                   |
| 10905 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 7.78     | ±0.6                   |
| 10906 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 8.39     | ±0.6                   |
| 10907 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 180QAM, 120 kHz)    | 5G NR FR2 TDD | 7.25     | ±0.6                   |
| 10908 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 180QAM, 120 kHz) | 5G NR FR2 TDD | 8.41     | ±0.6                   |
| 10909 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 8.12     | ±0.6                   |
| 10910 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)  | 5G NR FR2 TDD | 8.38     | ±0.6                   |
| 10911 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)       | 5G NR FR2 TDD | 5.75     | ±0.6                   |
| 10912 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)    | 5G NR FR2 TDD | 5.98     | ±0.6                   |
| 10913 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 180QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57     | ±0.6                   |
| 10914 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 180QAM, 120 kHz)  | 5G NR FR2 TDD | 5.53     | ±0.6                   |
| 10915 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)      | 5G NR FR2 TDD | 6.61     | ±0.6                   |
| 10916 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   | 5G NR FR2 TDD | 6.66     | ±0.6                   |
| 10917 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)       | 5G NR FR2 TDD | 7.76     | ±0.6                   |
| 10918 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)    | 5G NR FR2 TDD | 8.35     | ±0.6                   |
| 10919 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 180QAM, 120 kHz)     | 5G NR FR2 TDD | 8.02     | ±0.6                   |
| 10920 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 180QAM, 120 kHz)  | 5G NR FR2 TDD | 6.40     | ±0.6                   |
| 10921 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)      | 5G NR FR2 TDD | 6.13     | ±0.6                   |
| 10922 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   | 5G NR FR2 TDD | 6.41     | ±0.6                   |
| 10923 | AAD | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)         | 5G NR FR1 TDD | 5.65     | ±0.6                   |
| 10924 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.97     | ±0.6                   |
| 10925 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.97     | ±0.6                   |
| 10926 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10927 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.93     | ±0.6                   |
| 10928 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.89     | ±0.6                   |
| 10929 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.89     | ±0.6                   |
| 10930 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.89     | ±0.6                   |
| 10931 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10932 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10933 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10934 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10935 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10936 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.88     | ±0.6                   |
| 10937 | AAD | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.78     | ±0.6                   |
| 10938 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.93     | ±0.6                   |
| 10939 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.96     | ±0.6                   |
| 10940 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.83     | ±0.6                   |

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EX30V4 - SN:7574

July 18, 2023

| Mod   | Filter | Communication System Name                         | Group         | PAR (dB) | Use# k = 2 |
|-------|--------|---|---------------|----------|------------|
| 10911 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 55MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.93     | ±0.6       |
| 10912 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 55MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10913 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 40MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10914 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.85     | ±0.6       |
| 10915 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 60MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.83     | ±0.6       |
| 10916 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 60MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.87     | ±0.6       |
| 10917 | AAB    | 5G NR (DFT-s-OFDM, 50% RB, 100MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10918 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30kHz)    | 5G NR FRI TDD | 5.86     | ±0.6       |
| 10919 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.86     | ±0.6       |
| 10920 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.87     | ±0.6       |
| 10921 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 20MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10922 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.82     | ±0.6       |
| 10923 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10924 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 40MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10925 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.95     | ±0.6       |
| 10926 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 60MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.84     | ±0.6       |
| 10927 | AAB    | 5G NR (DFT-s-OFDM, 100% RB, 80MHz, QPSK, 30kHz)   | 5G NR FRI TDD | 5.94     | ±0.6       |
| 10928 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)       | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10929 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 10MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10930 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10931 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 20MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.91     | ±0.6       |
| 10932 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.91     | ±0.6       |
| 10933 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 30MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.91     | ±0.6       |
| 10934 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 40MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.91     | ±0.6       |
| 10935 | AAC    | 5G NR (DFT-s-OFDM, 1 RB, 50MHz, QPSK, 15kHz)      | 5G NR FRI FDD | 5.91     | ±0.6       |
| 10936 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz)     | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10937 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 10MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10938 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10939 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10940 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10941 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 30MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10942 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 40MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10943 | AAC    | 5G NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10944 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)    | 5G NR FRI FDD | 5.91     | ±0.6       |
| 10945 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10946 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10947 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10948 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.94     | ±0.6       |
| 10949 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10950 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.94     | ±0.6       |
| 10951 | AAC    | 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   | 5G NR FRI FDD | 5.92     | ±0.6       |
| 10952 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   | 5G NR FRI FDD | 6.25     | ±0.6       |
| 10953 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)  | 5G NR FRI FDD | 6.15     | ±0.6       |
| 10954 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)  | 5G NR FRI FDD | 6.23     | ±0.6       |
| 10955 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz)  | 5G NR FRI FDD | 6.42     | ±0.6       |
| 10956 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   | 5G NR FRI FDD | 6.14     | ±0.6       |
| 10957 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz)  | 5G NR FRI FDD | 6.31     | ±0.6       |
| 10958 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)  | 5G NR FRI FDD | 6.61     | ±0.6       |
| 10959 | AAA    | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)  | 5G NR FRI FDD | 6.33     | ±0.6       |
| 10960 | AAC    | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   | 5G NR FRI TDD | 6.32     | ±0.6       |
| 10961 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)  | 5G NR FRI TDD | 6.36     | ±0.6       |
| 10962 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)  | 5G NR FRI TDD | 6.45     | ±0.6       |
| 10963 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz)  | 5G NR FRI TDD | 6.55     | ±0.6       |
| 10964 | AAC    | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   | 5G NR FRI TDD | 6.39     | ±0.6       |
| 10965 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz)  | 5G NR FRI TDD | 6.37     | ±0.6       |
| 10966 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)  | 5G NR FRI TDD | 6.58     | ±0.6       |
| 10967 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)  | 5G NR FRI TDD | 6.42     | ±0.6       |
| 10968 | AAB    | 5G NR DL (CP-OFDM, TM 3.1, 100MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 6.46     | ±0.6       |
| 10970 | AAB    | 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 15kHz)         | 5G NR FRI TDD | 11.56    | ±0.6       |
| 10975 | AAB    | 5G NR (CP-OFDM, 1 RB, 100MHz, QPSK, 30kHz)        | 5G NR FRI TDD | 6.06     | ±0.6       |
| 10974 | AAB    | 5G NR (CP-OFDM, 1 RB, 100MHz, 256-QAM, 30kHz)     | 5G NR FRI TDD | 10.28    | ±0.6       |
| 10976 | AAA    | ULLA B2R  | ULLA          | 1.16     | ±0.6       |
| 10979 | AAA    | ULLA HDRM   | ULLA          | 6.56     | ±0.6       |
| 10980 | AAA    | ULLA HDRB   | ULLA          | 10.32    | ±0.6       |
| 10981 | AAA    | ULLA HDRp4  | ULLA          | 5.19     | ±0.6       |
| 10982 | AAA    | ULLA HDRp8  | ULLA          | 3.49     | ±0.6       |



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| UID   | Rev | Communication System Details                     | Group         | PAR (dB) | Unc <sup>2</sup> A = 2 |
|-------|-----|--|---------------|----------|------------------------|
| 10983 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 48MHz, 64-QAM, 15kHz) | 5G NR FRI TDD | 9.51     | ±0.6                   |
| 10984 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 56MHz, 64-QAM, 15kHz) | 5G NR FRI TDD | 9.42     | ±0.6                   |
| 10985 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 48MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 9.54     | ±0.6                   |
| 10986 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 56MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 9.50     | ±0.6                   |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 9.53     | ±0.6                   |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 9.38     | ±0.6                   |
| 10989 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 80MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 9.33     | ±0.6                   |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 9.52     | ±0.6                   |
| 11000 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30MHz, 64-QAM, 15kHz) | 5G NR FRI TDD | 10.06    | ±0.6                   |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30MHz, 64-QAM, 30kHz) | 5G NR FRI TDD | 10.79    | ±0.6                   |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz) | 5G NR FRI FDD | 9.70     | ±0.6                   |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30MHz, 64-QAM, 15kHz) | 5G NR FRI FDD | 9.55     | ±0.6                   |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40MHz, 64-QAM, 15kHz) | 5G NR FRI FDD | 9.45     | ±0.6                   |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40MHz, 64-QAM, 15kHz) | 5G NR FRI FDD | 9.51     | ±0.6                   |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25MHz, 64-QAM, 30kHz) | 5G NR FRI FDD | 9.78     | ±0.6                   |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30MHz, 64-QAM, 30kHz) | 5G NR FRI FDD | 9.95     | ±0.6                   |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 48MHz, 64-QAM, 30kHz) | 5G NR FRI FDD | 9.96     | ±0.6                   |
| 11013 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60MHz, 64-QAM, 30kHz) | 5G NR FRI FDD | 9.58     | ±0.6                   |
| 11013 | AAA | IEEE 802.11be (320MHz, MCS1, 99pc duty cycle)    | WLAN          | 8.47     | ±0.6                   |
| 11014 | AAA | IEEE 802.11be (320MHz, MCS2, 99pc duty cycle)    | WLAN          | 8.48     | ±0.6                   |
| 11015 | AAA | IEEE 802.11be (320MHz, MCS3, 99pc duty cycle)    | WLAN          | 8.44     | ±0.6                   |
| 11016 | AAA | IEEE 802.11be (320MHz, MCS4, 99pc duty cycle)    | WLAN          | 8.44     | ±0.6                   |
| 11017 | AAA | IEEE 802.11be (320MHz, MCS5, 99pc duty cycle)    | WLAN          | 8.41     | ±0.6                   |
| 11018 | AAA | IEEE 802.11be (320MHz, MCS6, 99pc duty cycle)    | WLAN          | 8.40     | ±0.6                   |
| 11019 | AAA | IEEE 802.11be (320MHz, MCS7, 99pc duty cycle)    | WLAN          | 8.29     | ±0.6                   |
| 11020 | AAA | IEEE 802.11be (320MHz, MCS8, 99pc duty cycle)    | WLAN          | 8.27     | ±0.6                   |
| 11021 | AAA | IEEE 802.11be (320MHz, MCS9, 99pc duty cycle)    | WLAN          | 8.45     | ±0.6                   |
| 11022 | AAA | IEEE 802.11be (320MHz, MCS10, 99pc duty cycle)   | WLAN          | 8.39     | ±0.6                   |
| 11023 | AAA | IEEE 802.11be (320MHz, MCS11, 99pc duty cycle)   | WLAN          | 8.29     | ±0.6                   |
| 11024 | AAA | IEEE 802.11be (320MHz, MCS12, 99pc duty cycle)   | WLAN          | 8.42     | ±0.6                   |
| 11025 | AAA | IEEE 802.11be (320MHz, MCS13, 99pc duty cycle)   | WLAN          | 8.37     | ±0.6                   |
| 11026 | AAA | IEEE 802.11be (320MHz, MCS14, 99pc duty cycle)   | WLAN          | 8.38     | ±0.6                   |

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