

**Appendix C. Calibration Certificate**

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Huawei (Auden)**

Certificate No: **EX3-7489\_Jan18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7489**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6  
Calibration procedure for dosimetric E-field probes**

Calibration date: **January 9, 2018**

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

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

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-17 (No. 217-02521/02522)   | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-17 (No. 217-02521)         | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-17 (No. 217-02525)         | Apr-18                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 07-Apr-17 (No. 217-02528)         | Apr-18                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name                  | Function                     | Signature |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|-----------|
| Calibrated by:                                                                                                  | <b>Jeton Kastrati</b> | <b>Laboratory Technician</b> |           |
| Approved by:                                                                                                    | <b>Katja Pokovic</b>  | <b>Technical Manager</b>     |           |
| Issued: January 9, 2018                                                                                         |                       |                              |           |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                       |                              |           |



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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 $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

## Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "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  $\vartheta = 0$  ( $f \leq 900$  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  $E^2$ -field uncertainty inside TSL (see below ConvF).
- NORM(f)<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 (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- 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  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to 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  $\pm 50$  MHz to  $\pm 100$  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).

# Probe EX3DV4

## SN:7489

Manufactured: March 20, 2017  
Calibrated: January 9, 2018

**Calibrated for DASY/EASY Systems**  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7489

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.49     | 0.42     | 0.49     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 99.8     | 97.0     | 96.7     |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 143.2    | $\pm 3.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 148.6    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 141.5    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms} \cdot \text{V}^{-2}$ | T2<br>$\text{ms} \cdot \text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|---------------------------------------|---------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 36.71    | 276.6    | 36.19                       | 9.955                                 | 0.073                                 | 5.100    | 0.937                 | 0.267                 | 1.006 |
| Y | 32.91    | 255.5    | 38.06                       | 4.407                                 | 0.290                                 | 5.039    | 0.002                 | 0.387                 | 1.007 |
| Z | 43.65    | 326.4    | 35.75                       | 12.41                                 | 0.181                                 | 5.097    | 0.587                 | 0.413                 | 1.006 |

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  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7489

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.79   | 10.79   | 10.79   | 0.36               | 1.06                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.39   | 10.39   | 10.39   | 0.47               | 0.84                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.90    | 8.90    | 8.90    | 0.40               | 0.84                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.66    | 8.66    | 8.66    | 0.33               | 0.84                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 8.46    | 8.46    | 8.46    | 0.31               | 0.92                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 8.04    | 8.04    | 8.04    | 0.31               | 0.93                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.76    | 7.76    | 7.76    | 0.34               | 0.95                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.62    | 5.62    | 5.62    | 0.35               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.93    | 4.93    | 4.93    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 5.17    | 5.17    | 5.17    | 0.40               | 1.80                    | ± 13.1 %  |

<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7489

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>c</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 11.10   | 11.10   | 11.10   | 0.28               | 1.14                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 10.80   | 10.80   | 10.80   | 0.44               | 0.87                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.99    | 8.99    | 8.99    | 0.42               | 0.88                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 8.61    | 8.61    | 8.61    | 0.38               | 0.86                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 8.34    | 8.34    | 8.34    | 0.37               | 0.89                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 8.24    | 8.24    | 8.24    | 0.33               | 0.93                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.91    | 7.91    | 7.91    | 0.31               | 0.96                    | ± 12.0 %  |
| 5250                 | 48.9                               | 5.36                            | 4.90    | 4.90    | 4.90    | 0.45               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.20    | 4.20    | 4.20    | 0.45               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.60    | 4.60    | 4.60    | 0.45               | 1.90                    | ± 13.1 %  |

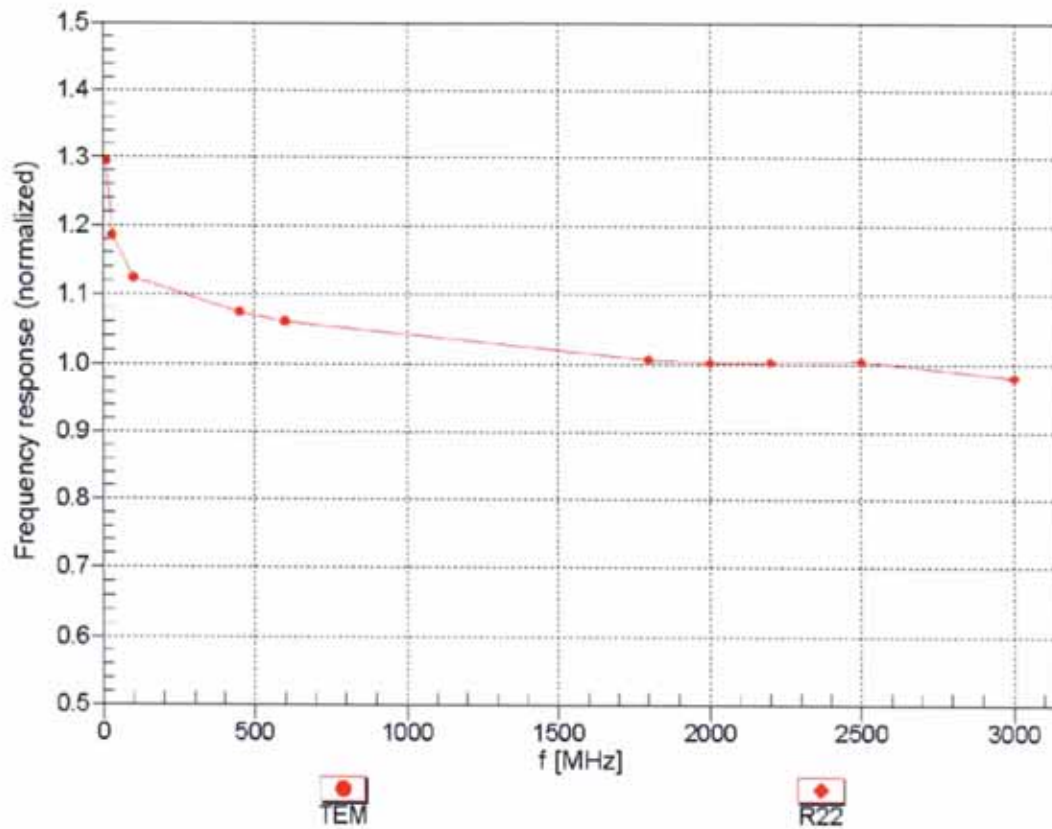
<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<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 ± 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.

## Frequency Response of E-Field

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



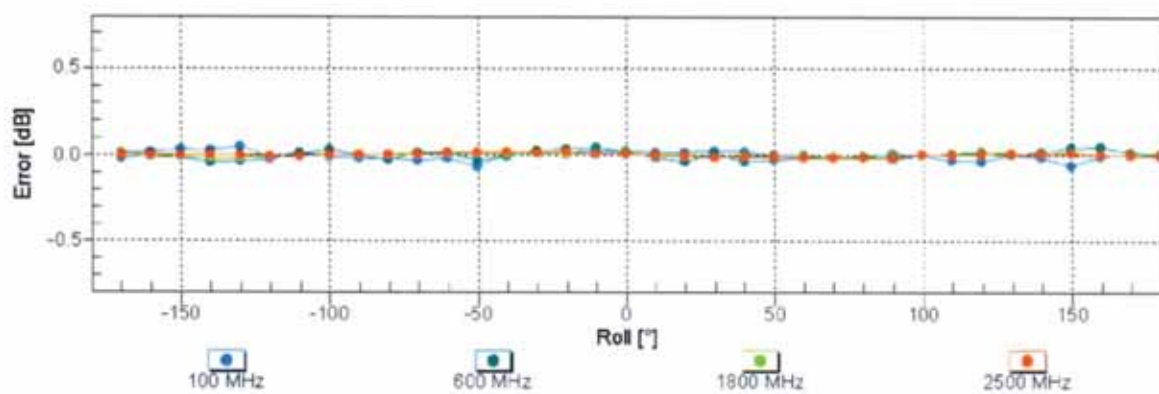
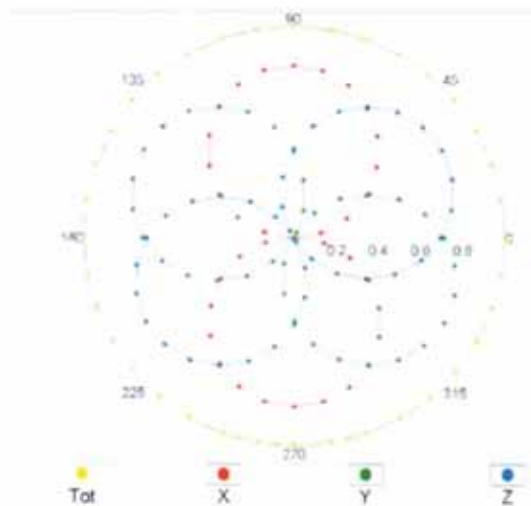
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$

f=600 MHz,TEM

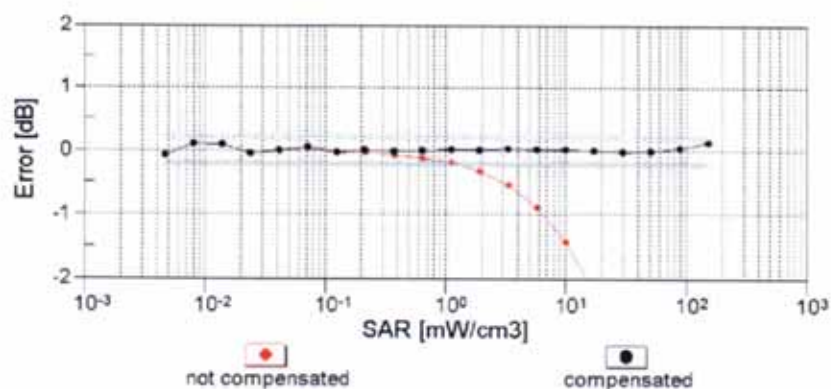
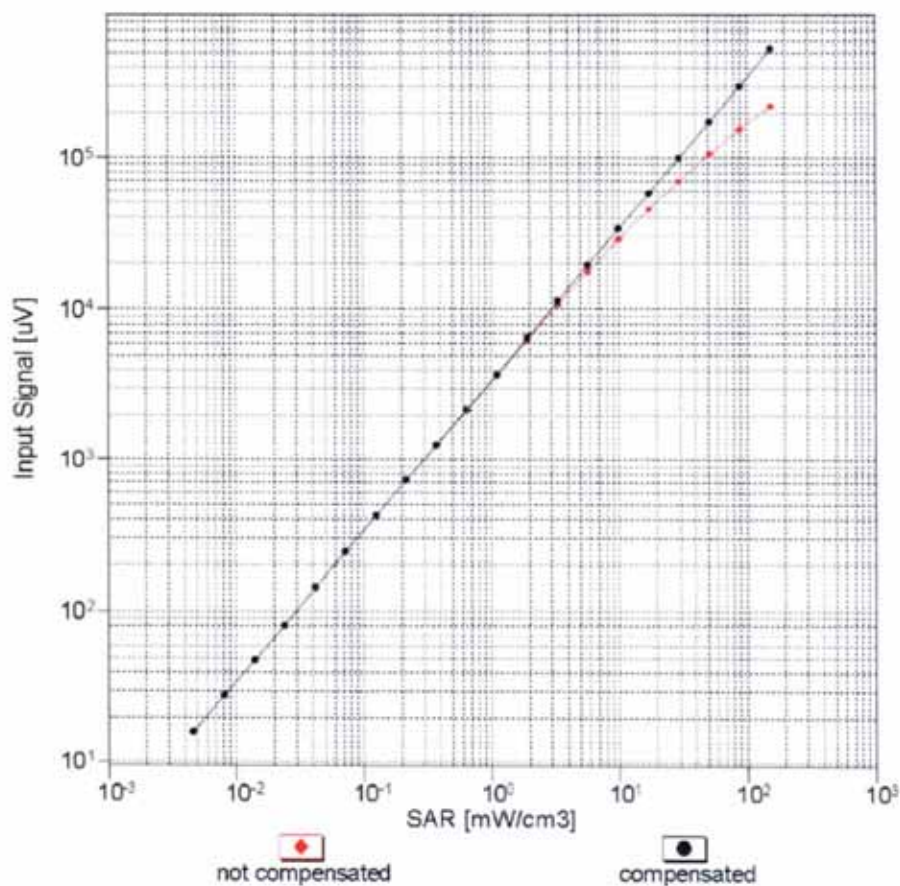


f=1800 MHz,R22



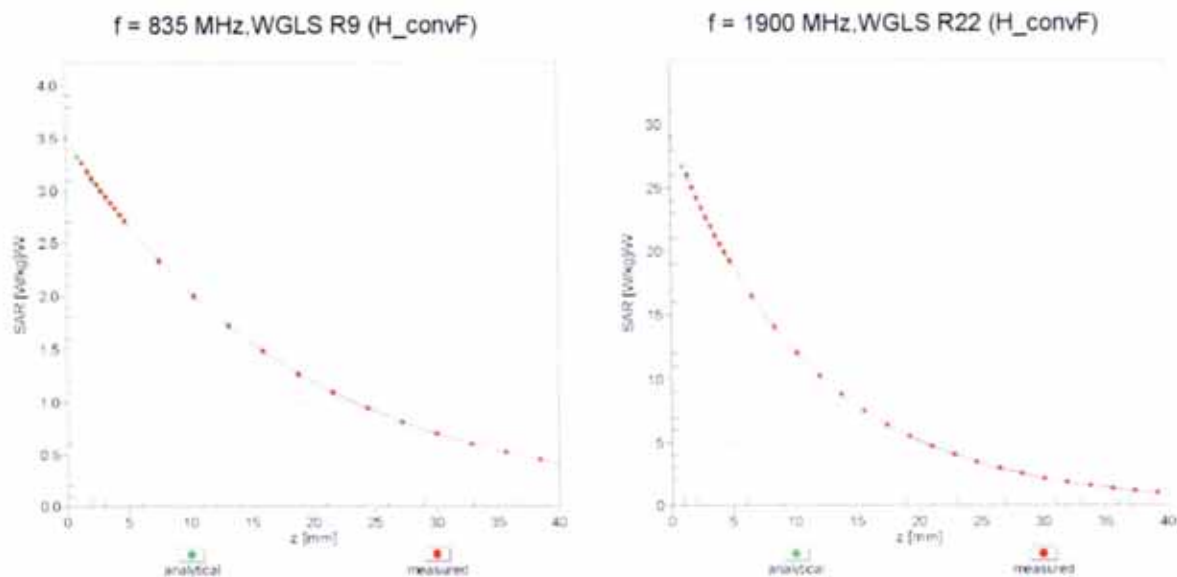
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$ )



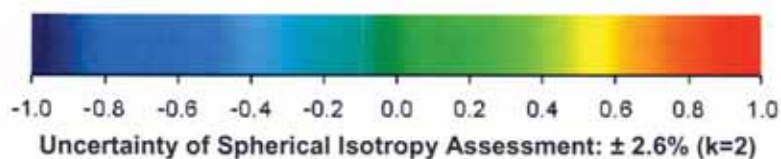
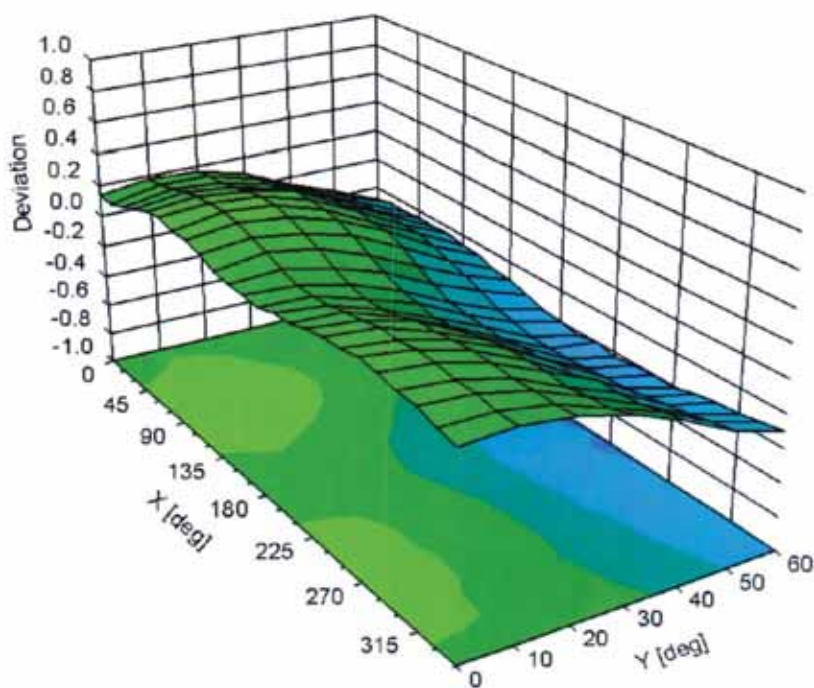
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi, \theta$ ),  $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7489

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 9.7        |
| 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     |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\mu$ V | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|-----------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00            | 1.00  | 0.00    | 143.2    | $\pm 3.5\%$                      |
|               |                                               | Y | 0.00    | 0.00            | 1.00  |         | 148.6    |                                  |
|               |                                               | Z | 0.00    | 0.00            | 1.00  |         | 141.5    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 2.59    | 68.41           | 11.06 | 10.00   | 20.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 1.71    | 63.33           | 8.31  |         | 20.0     |                                  |
|               |                                               | Z | 3.28    | 70.58           | 12.21 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.00    | 67.77           | 15.29 | 0.00    | 150.0    | $\pm 9.6\%$                      |
|               |                                               | Y | 0.85    | 65.60           | 13.65 |         | 150.0    |                                  |
|               |                                               | Z | 1.04    | 68.09           | 15.64 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.14    | 63.98           | 15.39 | 0.41    | 150.0    | $\pm 9.6\%$                      |
|               |                                               | Y | 1.04    | 62.79           | 14.39 |         | 150.0    |                                  |
|               |                                               | Z | 1.16    | 64.15           | 15.55 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.73    | 66.91           | 17.25 | 1.46    | 150.0    | $\pm 9.6\%$                      |
|               |                                               | Y | 4.58    | 66.51           | 16.90 |         | 150.0    |                                  |
|               |                                               | Z | 4.83    | 66.84           | 17.24 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 116.14          | 27.71 | 9.39    | 50.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 100.00  | 107.06          | 23.50 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 116.48          | 28.10 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 115.05          | 27.27 | 9.57    | 50.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 100.00  | 106.47          | 23.30 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 115.72          | 27.79 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 120.71          | 28.65 | 6.56    | 60.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 100.00  | 106.03          | 21.77 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 119.01          | 28.22 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 6.52    | 89.09           | 37.47 | 12.57   | 50.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 3.41    | 65.69           | 23.74 |         | 50.0     |                                  |
|               |                                               | Z | 5.80    | 83.51           | 34.27 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 7.87    | 92.96           | 34.75 | 9.56    | 60.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 5.07    | 80.29           | 28.61 |         | 60.0     |                                  |
|               |                                               | Z | 9.97    | 97.49           | 35.91 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 127.37          | 30.68 | 4.80    | 80.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 100.00  | 105.92          | 20.86 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 123.18          | 29.26 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 136.07          | 33.51 | 3.55    | 100.0    | $\pm 9.6\%$                      |
|               |                                               | Y | 100.00  | 105.27          | 19.88 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 128.89          | 30.93 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 4.77    | 79.83           | 27.92 | 7.80    | 80.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 3.55    | 72.57           | 24.00 |         | 80.0     |                                  |
|               |                                               | Z | 5.72    | 83.14           | 28.94 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 120.13          | 27.89 | 5.30    | 70.0     | $\pm 9.6\%$                      |
|               |                                               | Y | 100.00  | 102.91          | 19.88 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 118.34          | 27.47 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 136.81          | 31.97 | 1.88    | 100.0    | $\pm 9.6\%$                      |
|               |                                               | Y | 0.18    | 60.00           | 4.14  |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 131.19          | 30.23 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 153.80 | 37.18 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.03   | 185.64 | 4.29  |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 145.67 | 34.70 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 100.00 | 131.67 | 35.27 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 4.71   | 81.27  | 19.58 |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 132.94 | 36.21 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 9.96   | 94.18  | 23.09 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.26   | 67.03  | 11.99 |       | 100.0 |         |
|           |                                                     | Z | 9.72   | 95.24  | 24.39 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 3.16   | 79.62  | 18.04 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.96   | 64.91  | 10.62 |       | 100.0 |         |
|           |                                                     | Z | 3.56   | 81.76  | 19.73 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00 | 132.33 | 35.57 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 6.28   | 85.57  | 21.11 |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 133.52 | 36.48 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 7.21   | 90.09  | 21.90 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.17   | 66.33  | 11.67 |       | 100.0 |         |
|           |                                                     | Z | 7.87   | 92.39  | 23.53 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 3.22   | 80.22  | 18.41 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.96   | 65.11  | 10.85 |       | 100.0 |         |
|           |                                                     | Z | 3.62   | 82.37  | 20.09 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 1.36   | 69.25  | 13.19 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.78   | 63.31  | 9.23  |       | 150.0 |         |
|           |                                                     | Z | 1.89   | 72.92  | 15.69 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 112.80 | 25.45 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 9.55   | 81.62  | 15.52 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 112.96 | 25.77 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 107.35 | 6.00  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.29   | 119.33 | 13.49 |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 105.33 | 4.81  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 100.00 | 109.76 | 26.32 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 6.60   | 72.98  | 15.06 |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 112.27 | 27.59 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 803.82 | 136.38 | 31.16 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 7.27   | 77.08  | 15.45 |       | 40.0  |         |
|           |                                                     | Z | 100.00 | 113.17 | 26.94 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 100.00 | 126.07 | 33.92 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 17.60  | 93.88  | 23.68 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 127.05 | 34.68 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 3.79   | 74.79  | 24.72 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.99   | 69.51  | 21.76 |       | 100.0 |         |
|           |                                                     | Z | 4.38   | 77.23  | 25.52 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.17   | 65.11  | 16.11 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.04   | 63.39  | 14.77 |       | 110.0 |         |
|           |                                                     | Z | 1.21   | 65.42  | 16.33 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 146.82 | 39.21 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 2.12   | 83.69  | 21.50 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 144.81 | 38.53 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 3.07 | 84.81 | 24.88 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 1.49 | 72.01 | 18.92 |      | 110.0 |         |
|           |                                                | Z | 3.92 | 88.19 | 25.92 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.52 | 66.82 | 16.59 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.38 | 66.47 | 16.31 |      | 100.0 |         |
|           |                                                | Z | 4.63 | 66.79 | 16.61 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.54 | 66.94 | 16.71 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.39 | 66.56 | 16.40 |      | 100.0 |         |
|           |                                                | Z | 4.65 | 66.90 | 16.73 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.79 | 67.15 | 16.92 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.62 | 66.76 | 16.61 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 67.14 | 16.95 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.67 | 67.04 | 17.04 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.49 | 66.58 | 16.68 |      | 100.0 |         |
|           |                                                | Z | 4.80 | 67.05 | 17.08 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.68 | 67.05 | 17.22 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.50 | 66.56 | 16.82 |      | 100.0 |         |
|           |                                                | Z | 4.81 | 67.07 | 17.25 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 4.98 | 67.35 | 17.74 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.78 | 66.85 | 17.31 |      | 100.0 |         |
|           |                                                | Z | 5.10 | 67.28 | 17.73 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.00 | 67.28 | 17.93 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.80 | 66.75 | 17.47 |      | 100.0 |         |
|           |                                                | Z | 5.14 | 67.29 | 17.95 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.07 | 67.31 | 18.13 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.87 | 66.78 | 17.66 |      | 100.0 |         |
|           |                                                | Z | 5.22 | 67.30 | 18.14 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.83 | 67.00 | 17.58 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.67 | 66.57 | 17.20 |      | 100.0 |         |
|           |                                                | Z | 4.93 | 66.92 | 17.56 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.79 | 67.28 | 17.81 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.61 | 66.75 | 17.36 |      | 100.0 |         |
|           |                                                | Z | 4.90 | 67.25 | 17.80 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.85 | 67.49 | 18.19 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.66 | 66.92 | 17.69 |      | 100.0 |         |
|           |                                                | Z | 4.96 | 67.42 | 18.16 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.85 | 67.41 | 18.35 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.66 | 66.86 | 17.84 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 67.31 | 18.31 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.87 | 67.43 | 18.64 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.68 | 66.83 | 18.07 |      | 90.0  |         |
|           |                                                | Z | 4.97 | 67.39 | 18.63 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.90 | 67.28 | 18.81 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.72 | 66.71 | 18.25 |      | 90.0  |         |
|           |                                                | Z | 4.98 | 67.18 | 18.75 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.93 | 67.37 | 18.92 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.75 | 66.79 | 18.36 |      | 90.0  |         |
|           |                                                | Z | 5.01 | 67.25 | 18.85 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.64   | 64.11  | 10.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.43   | 60.63  | 7.12  |      | 150.0 |         |
|           |                                                     | Z | 0.81   | 66.18  | 12.28 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 4.00   | 66.94  | 6.22  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 6.14   | 62.58  | 2.96  |      | 80.0  |         |
|           |                                                     | Z | 0.66   | 60.00  | 4.34  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 120.76 | 28.69 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 106.11 | 21.82 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 119.05 | 28.26 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.81   | 68.37  | 15.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.63   | 67.09  | 14.59 |      | 150.0 |         |
|           |                                                     | Z | 1.85   | 68.24  | 15.89 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.77   | 68.32  | 15.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.60   | 67.02  | 14.56 |      | 150.0 |         |
|           |                                                     | Z | 1.81   | 68.20  | 15.87 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 7.95   | 93.21  | 34.84 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 5.10   | 80.41  | 28.65 |      | 60.0  |         |
|           |                                                     | Z | 10.08  | 97.75  | 36.00 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 2.98   | 70.17  | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.75   | 68.94  | 16.07 |      | 150.0 |         |
|           |                                                     | Z | 3.12   | 70.56  | 16.87 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.11   | 67.40  | 15.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.97   | 66.74  | 15.51 |      | 150.0 |         |
|           |                                                     | Z | 3.20   | 67.60  | 16.00 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.21   | 67.39  | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.08   | 66.80  | 15.63 |      | 150.0 |         |
|           |                                                     | Z | 3.31   | 67.56  | 16.09 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 5.95   | 76.75  | 21.49 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.58   | 72.29  | 19.32 |      | 65.0  |         |
|           |                                                     | Z | 6.72   | 78.07  | 21.85 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 5.66   | 73.50  | 20.79 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.76   | 70.43  | 19.13 |      | 65.0  |         |
|           |                                                     | Z | 6.15   | 74.35  | 21.05 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 5.29   | 71.89  | 20.34 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.50   | 69.03  | 18.75 |      | 65.0  |         |
|           |                                                     | Z | 5.94   | 73.49  | 20.98 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.58   | 69.52  | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.36   | 68.34  | 15.87 |      | 150.0 |         |
|           |                                                     | Z | 2.71   | 69.82  | 16.70 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.75   | 67.35  | 15.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.60   | 66.66  | 15.27 |      | 150.0 |         |
|           |                                                     | Z | 2.86   | 67.50  | 15.91 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.07   | 68.78  | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.85   | 67.45  | 15.15 |      | 150.0 |         |
|           |                                                     | Z | 2.19   | 69.01  | 16.31 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.48   | 68.49  | 15.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.29   | 67.59  | 15.21 |      | 150.0 |         |
|           |                                                     | Z | 2.59   | 68.53  | 16.23 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 2.88 | 67.40 | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.73 | 66.78 | 15.38 |      | 150.0 |         |
|           |                                                | Z | 2.98 | 67.51 | 15.96 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.63 | 68.66 | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.44 | 67.82 | 15.38 |      | 150.0 |         |
|           |                                                | Z | 2.74 | 68.67 | 16.36 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 4.96 | 67.11 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.88 | 66.92 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.08 | 67.23 | 16.48 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.21 | 67.19 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.12 | 67.00 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 5.34 | 67.29 | 16.51 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.05 | 67.31 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.95 | 67.07 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.16 | 67.40 | 16.49 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 4.95 | 67.07 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 66.80 | 16.32 |      | 150.0 |         |
|           |                                                | Z | 5.04 | 67.09 | 16.42 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.28 | 67.38 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 67.23 | 16.52 |      | 150.0 |         |
|           |                                                | Z | 5.41 | 67.48 | 16.62 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.04 | 67.30 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.96 | 67.11 | 16.39 |      | 150.0 |         |
|           |                                                | Z | 5.14 | 67.36 | 16.48 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.23 | 67.41 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.09 | 66.82 | 15.54 |      | 150.0 |         |
|           |                                                | Z | 3.34 | 67.57 | 16.01 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.36 | 67.55 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.22 | 67.02 | 15.76 |      | 150.0 |         |
|           |                                                | Z | 3.46 | 67.68 | 16.18 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 1.83 | 68.73 | 15.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.57 | 66.88 | 14.02 |      | 150.0 |         |
|           |                                                | Z | 1.97 | 69.10 | 15.93 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.29 | 68.95 | 15.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.97 | 67.06 | 13.69 |      | 150.0 |         |
|           |                                                | Z | 2.46 | 69.38 | 15.87 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 1.98 | 66.05 | 13.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.72 | 64.49 | 11.82 |      | 150.0 |         |
|           |                                                | Z | 2.18 | 66.72 | 14.07 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 0.81 | 61.78 | 8.48  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.63 | 60.00 | 6.37  |      | 150.0 |         |
|           |                                                | Z | 1.10 | 64.40 | 10.97 |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 1.12 | 61.40 | 7.53  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.87 | 60.00 | 6.02  |      | 150.0 |         |
|           |                                                | Z | 1.61 | 64.38 | 10.21 |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 1.19 | 61.90 | 7.90  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.88 | 60.00 | 6.08  |      | 150.0 |         |
|           |                                                | Z | 1.82 | 65.79 | 11.04 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.76 | 67.42 | 15.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.61 | 66.73 | 15.32 |      | 150.0 |         |
|           |                                            | Z | 2.87 | 67.57 | 15.96 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 2.88 | 67.46 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.74 | 66.84 | 15.42 |      | 150.0 |         |
|           |                                            | Z | 2.99 | 67.56 | 16.01 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.57 | 80.60 | 23.13 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.74 | 74.90 | 20.44 |      | 65.0  |         |
|           |                                            | Z | 7.20 | 81.16 | 23.19 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.24 | 73.75 | 20.53 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.28 | 70.28 | 18.57 |      | 65.0  |         |
|           |                                            | Z | 5.72 | 74.55 | 20.85 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 5.61 | 74.81 | 21.35 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.62 | 71.43 | 19.49 |      | 65.0  |         |
|           |                                            | Z | 6.10 | 75.55 | 21.64 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.11 | 69.15 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.89 | 67.79 | 15.36 |      | 150.0 |         |
|           |                                            | Z | 2.24 | 69.43 | 16.56 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.49 | 68.53 | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.30 | 67.64 | 15.24 |      | 150.0 |         |
|           |                                            | Z | 2.59 | 68.55 | 16.25 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.64 | 68.47 | 14.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.35 | 66.08 | 13.05 |      | 150.0 |         |
|           |                                            | Z | 1.82 | 69.20 | 15.67 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 1.78 | 66.23 | 12.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.47 | 64.10 | 11.09 |      | 150.0 |         |
|           |                                            | Z | 2.02 | 67.31 | 14.06 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.64 | 68.74 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.45 | 67.91 | 15.44 |      | 150.0 |         |
|           |                                            | Z | 2.75 | 68.74 | 16.41 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 1.86 | 66.57 | 13.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.52 | 64.27 | 11.22 |      | 150.0 |         |
|           |                                            | Z | 2.13 | 67.77 | 14.34 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.62 | 68.87 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.45 | 68.04 | 15.80 |      | 150.0 |         |
|           |                                            | Z | 2.72 | 68.92 | 16.46 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.77 | 67.43 | 15.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.61 | 66.77 | 15.23 |      | 150.0 |         |
|           |                                            | Z | 2.89 | 67.53 | 15.93 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 2.89 | 67.65 | 15.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.72 | 67.03 | 15.40 |      | 150.0 |         |
|           |                                            | Z | 3.00 | 67.70 | 16.05 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.29 | 69.50 | 19.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.01 | 68.24 | 18.69 |      | 150.0 |         |
|           |                                            | Z | 3.48 | 69.56 | 19.13 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.02 | 72.82 | 19.81 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.42 | 70.51 | 18.88 |      | 150.0 |         |
|           |                                            | Z | 4.28 | 72.57 | 19.61 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.55  | 75.55  | 21.36 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.85  | 73.24  | 20.54 |      | 150.0 |         |
|           |                                            | Z | 4.79  | 75.04  | 21.04 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.69  | 68.25  | 18.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.43  | 66.31  | 17.78 |      | 150.0 |         |
|           |                                            | Z | 2.88  | 68.73  | 18.78 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 3.64  | 74.53  | 21.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94  | 70.75  | 19.74 |      | 150.0 |         |
|           |                                            | Z | 3.94  | 74.76  | 21.17 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 2.98  | 70.36  | 18.37 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.48  | 67.23  | 17.01 |      | 150.0 |         |
|           |                                            | Z | 3.23  | 70.61  | 18.38 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 5.17  | 86.51  | 28.29 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 2.90  | 74.24  | 22.75 |      | 65.0  |         |
|           |                                            | Z | 9.01  | 95.56  | 30.88 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 19.68 | 109.44 | 33.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.68  | 82.05  | 24.07 |      | 65.0  |         |
|           |                                            | Z | 25.29 | 110.65 | 33.22 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 11.41 | 97.86  | 29.35 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 3.69  | 77.31  | 21.70 |      | 65.0  |         |
|           |                                            | Z | 18.96 | 103.68 | 30.56 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.66  | 67.98  | 18.44 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.40  | 66.06  | 17.54 |      | 150.0 |         |
|           |                                            | Z | 2.84  | 68.44  | 18.54 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 3.65  | 74.55  | 21.23 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94  | 70.77  | 19.75 |      | 150.0 |         |
|           |                                            | Z | 3.94  | 74.78  | 21.18 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.68  | 68.10  | 18.51 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.42  | 66.16  | 17.61 |      | 150.0 |         |
|           |                                            | Z | 2.86  | 68.58  | 18.63 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 3.62  | 74.40  | 21.15 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.92  | 70.64  | 19.67 |      | 150.0 |         |
|           |                                            | Z | 3.91  | 74.59  | 21.08 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 3.28  | 72.35  | 19.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.68  | 68.87  | 18.24 |      | 150.0 |         |
|           |                                            | Z | 3.55  | 72.57  | 19.65 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 2.98  | 70.32  | 18.34 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.48  | 67.20  | 16.98 |      | 150.0 |         |
|           |                                            | Z | 3.22  | 70.55  | 18.34 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.68  | 68.09  | 18.51 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.41  | 66.15  | 17.61 |      | 150.0 |         |
|           |                                            | Z | 2.86  | 68.56  | 18.62 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 3.62  | 74.37  | 21.14 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.92  | 70.62  | 19.66 |      | 150.0 |         |
|           |                                            | Z | 3.90  | 74.56  | 21.06 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 2.97  | 70.30  | 18.33 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.47  | 67.18  | 16.97 |      | 150.0 |         |
|           |                                            | Z | 3.22  | 70.53  | 18.33 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.69 | 68.12 | 18.53 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.42 | 66.18 | 17.63 |      | 150.0 |         |
|           |                                               | Z | 2.87 | 68.60 | 18.64 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 3.63 | 74.45 | 21.18 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.93 | 70.69 | 19.70 |      | 150.0 |         |
|           |                                               | Z | 3.92 | 74.64 | 21.10 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 2.99 | 70.37 | 18.37 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.48 | 67.23 | 17.00 |      | 150.0 |         |
|           |                                               | Z | 3.23 | 70.60 | 18.36 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.70 | 68.20 | 18.61 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.43 | 66.26 | 17.71 |      | 150.0 |         |
|           |                                               | Z | 2.88 | 68.66 | 18.71 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 3.74 | 75.05 | 21.53 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.00 | 71.20 | 20.04 |      | 150.0 |         |
|           |                                               | Z | 4.04 | 75.27 | 21.47 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 3.05 | 70.76 | 18.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.52 | 67.55 | 17.25 |      | 150.0 |         |
|           |                                               | Z | 3.30 | 71.01 | 18.63 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.37 | 66.74 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.26 | 66.52 | 15.96 |      | 150.0 |         |
|           |                                               | Z | 4.47 | 66.69 | 16.17 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.51 | 66.99 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.39 | 66.74 | 16.11 |      | 150.0 |         |
|           |                                               | Z | 4.63 | 66.99 | 16.30 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.55 | 67.01 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.42 | 66.75 | 16.12 |      | 150.0 |         |
|           |                                               | Z | 4.67 | 67.02 | 16.32 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.35 | 66.75 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.24 | 66.50 | 15.94 |      | 150.0 |         |
|           |                                               | Z | 4.47 | 66.74 | 16.18 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.52 | 67.00 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 66.74 | 16.11 |      | 150.0 |         |
|           |                                               | Z | 4.64 | 67.00 | 16.31 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.54 | 67.01 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.41 | 66.75 | 16.12 |      | 150.0 |         |
|           |                                               | Z | 4.67 | 67.03 | 16.33 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.31 | 66.78 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.19 | 66.54 | 15.91 |      | 150.0 |         |
|           |                                               | Z | 4.42 | 66.76 | 16.15 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.51 | 66.96 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.39 | 66.70 | 16.10 |      | 150.0 |         |
|           |                                               | Z | 4.63 | 66.97 | 16.30 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.56 | 66.95 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.43 | 66.70 | 16.11 |      | 150.0 |         |
|           |                                               | Z | 4.68 | 66.96 | 16.31 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 4.92 | 67.04 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.83 | 66.81 | 16.31 |      | 150.0 |         |
|           |                                               | Z | 5.02 | 67.09 | 16.42 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.20  | 67.26  | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.08  | 66.97  | 16.41 |      | 150.0 |         |
|           |                                           | Z | 5.32  | 67.34  | 16.56 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 4.96  | 67.16  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 4.87  | 66.93  | 16.30 |      | 150.0 |         |
|           |                                           | Z | 5.06  | 67.20  | 16.40 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.64  | 66.22  | 14.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.49  | 65.58  | 14.30 |      | 150.0 |         |
|           |                                           | Z | 2.76  | 66.29  | 15.30 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 22.13 | 111.87 | 34.22 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.94  | 83.12  | 24.56 |      | 65.0  |         |
|           |                                           | Z | 28.31 | 112.95 | 33.96 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 23.79 | 111.05 | 33.16 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.00  | 82.51  | 23.67 |      | 65.0  |         |
|           |                                           | Z | 27.84 | 110.48 | 32.51 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 6.89  | 92.93  | 30.66 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.42  | 77.87  | 24.38 |      | 65.0  |         |
|           |                                           | Z | 10.48 | 99.07  | 32.13 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 19.85 | 109.57 | 33.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.71  | 82.14  | 24.11 |      | 65.0  |         |
|           |                                           | Z | 25.51 | 110.79 | 33.26 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 20.87 | 108.53 | 32.38 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.72  | 81.44  | 23.21 |      | 65.0  |         |
|           |                                           | Z | 24.88 | 108.33 | 31.84 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 6.58  | 91.86  | 30.21 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.31  | 77.21  | 24.02 |      | 65.0  |         |
|           |                                           | Z | 9.91  | 97.82  | 31.64 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 19.81 | 109.56 | 33.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.70  | 82.12  | 24.11 |      | 65.0  |         |
|           |                                           | Z | 25.48 | 110.78 | 33.26 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 20.76 | 108.46 | 32.37 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.70  | 81.40  | 23.20 |      | 65.0  |         |
|           |                                           | Z | 24.79 | 108.29 | 31.82 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 6.37  | 91.04  | 29.80 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.24  | 76.70  | 23.69 |      | 65.0  |         |
|           |                                           | Z | 9.49  | 96.75  | 31.17 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 19.89 | 109.65 | 33.50 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.70  | 82.14  | 24.12 |      | 65.0  |         |
|           |                                           | Z | 25.56 | 110.86 | 33.28 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 21.29 | 108.86 | 32.47 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.75  | 81.55  | 23.24 |      | 65.0  |         |
|           |                                           | Z | 25.32 | 108.62 | 31.91 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 6.58  | 91.92  | 30.24 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.31  | 77.21  | 24.03 |      | 65.0  |         |
|           |                                           | Z | 9.93  | 97.92  | 31.67 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 19.77 | 109.53 | 33.47 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.69  | 82.09  | 24.09 |      | 65.0  |         |
|           |                                           | Z | 25.42 | 110.76 | 33.25 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 20.65 | 108.39 | 32.35 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.69  | 81.36  | 23.18 |      | 65.0 |         |
|           |                                            | Z | 24.68 | 108.24 | 31.81 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 6.57  | 91.89  | 30.23 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.30  | 77.19  | 24.02 |      | 65.0 |         |
|           |                                            | Z | 9.90  | 97.86  | 31.66 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 7.70  | 83.53  | 26.99 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.78  | 77.68  | 24.25 |      | 65.0 |         |
|           |                                            | Z | 8.11  | 82.69  | 26.41 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.81  | 80.91  | 25.85 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.18  | 75.48  | 23.22 |      | 65.0 |         |
|           |                                            | Z | 7.67  | 81.52  | 25.86 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.34  | 76.17  | 24.76 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.42  | 72.32  | 22.66 |      | 65.0 |         |
|           |                                            | Z | 6.02  | 77.34  | 25.05 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 4.97  | 74.62  | 17.24 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.82  | 66.77  | 12.83 |      | 65.0 |         |
|           |                                            | Z | 6.37  | 77.94  | 19.30 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 4.69  | 73.49  | 16.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.77  | 66.28  | 12.53 |      | 65.0 |         |
|           |                                            | Z | 6.05  | 76.86  | 18.81 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 5.91  | 81.45  | 20.58 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.51  | 68.72  | 14.25 |      | 65.0 |         |
|           |                                            | Z | 7.75  | 85.29  | 22.53 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 4.54  | 74.11  | 18.36 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.06  | 68.06  | 14.71 |      | 65.0 |         |
|           |                                            | Z | 5.28  | 75.93  | 19.63 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 4.39  | 73.04  | 17.86 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.04  | 67.51  | 14.43 |      | 65.0 |         |
|           |                                            | Z | 5.14  | 74.95  | 19.18 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 8.10  | 87.54  | 24.15 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.75  | 74.77  | 18.43 |      | 65.0 |         |
|           |                                            | Z | 9.36  | 89.16  | 25.00 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.44  | 76.95  | 21.74 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.17  | 72.39  | 19.22 |      | 65.0 |         |
|           |                                            | Z | 6.00  | 77.84  | 22.23 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.06  | 74.30  | 20.17 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.95  | 70.19  | 17.75 |      | 65.0 |         |
|           |                                            | Z | 5.61  | 75.25  | 20.72 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 7.28  | 85.22  | 24.77 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.52  | 76.83  | 20.96 |      | 65.0 |         |
|           |                                            | Z | 8.08  | 85.89  | 24.96 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.16  | 73.32  | 20.24 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.24  | 70.00  | 18.29 |      | 65.0 |         |
|           |                                            | Z | 5.60  | 73.99  | 20.57 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.49  | 74.25  | 20.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.53  | 70.96  | 19.06 |      | 65.0 |         |
|           |                                            | Z | 5.95  | 74.90  | 21.27 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.16 | 79.60 | 22.90 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.53 | 74.26 | 20.28 |      | 65.0 |         |
|           |                                             | Z | 6.71 | 80.08 | 22.99 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 3.14 | 67.95 | 12.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.00 | 62.84 | 9.42  |      | 65.0 |         |
|           |                                             | Z | 4.48 | 72.33 | 15.80 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 2.98 | 66.96 | 12.35 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 1.98 | 62.48 | 9.11  |      | 65.0 |         |
|           |                                             | Z | 4.22 | 71.11 | 15.16 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 3.34 | 72.16 | 15.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 1.72 | 63.65 | 10.39 |      | 65.0 |         |
|           |                                             | Z | 4.99 | 77.61 | 18.65 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 4.95 | 75.43 | 19.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.50 | 69.87 | 16.45 |      | 65.0 |         |
|           |                                             | Z | 5.59 | 76.73 | 20.60 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 4.92 | 74.92 | 19.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.54 | 69.63 | 16.32 |      | 65.0 |         |
|           |                                             | Z | 5.56 | 76.25 | 20.39 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 7.12 | 85.15 | 23.89 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.94 | 75.09 | 19.21 |      | 65.0 |         |
|           |                                             | Z | 7.97 | 86.13 | 24.42 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.42 | 76.87 | 21.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.15 | 72.30 | 19.16 |      | 65.0 |         |
|           |                                             | Z | 5.98 | 77.78 | 22.18 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.05 | 74.27 | 20.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.94 | 70.17 | 17.74 |      | 65.0 |         |
|           |                                             | Z | 5.59 | 75.22 | 20.71 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 7.18 | 84.94 | 24.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.47 | 76.62 | 20.84 |      | 65.0 |         |
|           |                                             | Z | 7.98 | 85.62 | 24.84 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.24 | 73.75 | 20.53 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.28 | 70.29 | 18.58 |      | 65.0 |         |
|           |                                             | Z | 5.72 | 74.56 | 20.86 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.61 | 74.79 | 21.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.62 | 71.41 | 19.48 |      | 65.0 |         |
|           |                                             | Z | 6.10 | 75.53 | 21.63 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.56 | 80.54 | 23.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.73 | 74.85 | 20.41 |      | 65.0 |         |
|           |                                             | Z | 7.18 | 81.10 | 23.17 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 5.81 | 73.40 | 20.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.94 | 70.54 | 19.25 |      | 65.0 |         |
|           |                                             | Z | 6.28 | 74.12 | 21.04 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 5.80 | 72.95 | 20.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.97 | 70.26 | 19.13 |      | 65.0 |         |
|           |                                             | Z | 6.24 | 73.62 | 20.87 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.13 | 76.54 | 21.59 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.91 | 72.72 | 19.68 |      | 65.0 |         |
|           |                                             | Z | 6.62 | 77.08 | 21.66 |      | 65.0 |         |

|           |                                                                    |   |       |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.49  | 66.85  | 15.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.33  | 66.12  | 14.32 |      | 150.0 |         |
|           |                                                                    | Z | 2.57  | 66.78  | 15.29 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.55  | 68.25  | 15.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.36  | 66.59  | 14.26 |      | 150.0 |         |
|           |                                                                    | Z | 1.62  | 68.43  | 15.78 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.52  | 60.04  | 5.41  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 1.39  | 58.96  | 4.34  |      | 50.0  |         |
|           |                                                                    | Z | 1.82  | 61.02  | 6.51  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 4.02  | 71.35  | 14.19 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.44  | 64.05  | 9.73  |      | 50.0  |         |
|           |                                                                    | Z | 7.15  | 79.52  | 18.25 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 4.16  | 71.74  | 14.44 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.50  | 64.24  | 9.90  |      | 50.0  |         |
|           |                                                                    | Z | 7.38  | 79.91  | 18.46 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.03  | 65.80  | 11.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.67  | 61.82  | 8.13  |      | 150.0 |         |
|           |                                                                    | Z | 1.39  | 68.75  | 13.60 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.63  | 63.91  | 10.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.43  | 60.55  | 7.05  |      | 150.0 |         |
|           |                                                                    | Z | 0.79  | 65.93  | 12.13 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 0.90  | 68.79  | 12.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.48  | 62.20  | 8.30  |      | 150.0 |         |
|           |                                                                    | Z | 1.17  | 71.85  | 15.26 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 2.30  | 80.35  | 17.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.68  | 65.55  | 10.46 |      | 150.0 |         |
|           |                                                                    | Z | 2.63  | 83.09  | 20.01 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 62.80 | 118.41 | 33.12 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 26.35 | 98.00  | 25.51 |      | 50.0  |         |
|           |                                                                    | Z | 18.90 | 99.88  | 29.04 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.59  | 69.62  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.37  | 68.44  | 15.94 |      | 150.0 |         |
|           |                                                                    | Z | 2.72  | 69.93  | 16.77 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.20  | 65.49  | 11.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.89  | 62.48  | 9.38  |      | 150.0 |         |
|           |                                                                    | Z | 1.49  | 67.61  | 13.75 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 1.74  | 65.34  | 10.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.24  | 62.29  | 8.70  |      | 150.0 |         |
|           |                                                                    | Z | 2.35  | 68.44  | 13.29 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 1.35  | 62.12  | 8.51  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.05  | 60.42  | 6.94  |      | 150.0 |         |
|           |                                                                    | Z | 1.73  | 64.05  | 10.42 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.66  | 66.22  | 17.65 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.27  | 65.05  | 16.90 |      | 50.0  |         |
|           |                                                                    | Z | 4.73  | 65.76  | 17.54 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.04  | 66.40  | 18.14 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.72  | 65.47  | 17.52 |      | 50.0  |         |
|           |                                                                    | Z | 5.19  | 66.31  | 18.23 |      | 50.0  |         |

|           |                                                                     |   |       |        |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.79  | 66.03  | 17.94 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.51  | 65.48  | 17.55 |       | 50.0  |         |
|           |                                                                     | Z | 4.93  | 65.94  | 18.05 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.62  | 65.95  | 17.45 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.30  | 65.05  | 16.84 |       | 50.0  |         |
|           |                                                                     | Z | 4.75  | 65.83  | 17.54 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.21  | 67.85  | 19.21 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 3.84  | 66.36  | 17.96 |       | 35.0  |         |
|           |                                                                     | Z | 4.35  | 67.75  | 19.57 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.53  | 66.95  | 19.01 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.22  | 65.83  | 18.07 |       | 35.0  |         |
|           |                                                                     | Z | 4.67  | 66.78  | 19.20 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.41  | 66.97  | 18.90 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.09  | 65.78  | 17.93 |       | 35.0  |         |
|           |                                                                     | Z | 4.56  | 66.89  | 19.14 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.40  | 67.20  | 19.06 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.07  | 65.96  | 18.06 |       | 35.0  |         |
|           |                                                                     | Z | 4.54  | 67.11  | 19.30 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.56  | 67.06  | 19.12 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.23  | 65.88  | 18.16 |       | 35.0  |         |
|           |                                                                     | Z | 4.72  | 66.97  | 19.34 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.48  | 67.00  | 18.99 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.17  | 65.87  | 18.05 |       | 35.0  |         |
|           |                                                                     | Z | 4.62  | 66.84  | 19.18 |       | 35.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 2.95  | 68.83  | 16.27 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.73  | 67.70  | 15.67 |       | 150.0 |         |
|           |                                                                     | Z | 3.09  | 69.17  | 16.40 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 6.22  | 84.48  | 21.04 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 1.96  | 68.79  | 14.44 |       | 70.0  |         |
|           |                                                                     | Z | 7.12  | 84.83  | 20.91 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 11.85 | 99.96  | 29.33 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 3.84  | 78.99  | 21.37 |       | 30.0  |         |
|           |                                                                     | Z | 14.21 | 101.42 | 29.45 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.05  | 63.90  | 15.27 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.97  | 62.81  | 14.34 |       | 150.0 |         |
|           |                                                                     | Z | 1.07  | 64.03  | 15.43 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.41  | 66.78  | 16.32 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.28  | 66.44  | 16.06 |       | 150.0 |         |
|           |                                                                     | Z | 4.53  | 66.77  | 16.36 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.41  | 66.78  | 16.32 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.28  | 66.44  | 16.06 |       | 150.0 |         |
|           |                                                                     | Z | 4.53  | 66.77  | 16.36 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.48  | 67.02  | 16.26 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.34  | 66.71  | 16.07 |       | 150.0 |         |
|           |                                                                     | Z | 4.61  | 67.03  | 16.30 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.15  | 66.87  | 16.30 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.02  | 66.52  | 16.13 |       | 150.0 |         |
|           |                                                                     | Z | 5.32  | 67.17  | 16.45 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.48   | 67.38  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.39   | 67.14  | 16.35 |      | 150.0 |         |
|           |                                                                                 | Z | 5.58   | 67.45  | 16.45 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 1.03   | 65.80  | 11.30 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.67   | 61.82  | 8.13  |      | 115.0 |         |
|           |                                                                                 | Z | 1.39   | 68.75  | 13.60 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 1.03   | 65.80  | 11.30 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.67   | 61.82  | 8.13  |      | 115.0 |         |
|           |                                                                                 | Z | 1.39   | 68.75  | 13.60 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 117.32 | 27.69 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 120.15 | 28.62 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 120.91 | 29.80 |      | 100.0 |         |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 130.76 | 33.54 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 7.91   | 94.46  | 23.98 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 127.51 | 32.55 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 0.99   | 63.16  | 14.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.93   | 62.37  | 13.93 |      | 150.0 |         |
|           |                                                                                 | Z | 1.00   | 63.21  | 14.80 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.36   | 66.74  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.25   | 66.49  | 16.03 |      | 150.0 |         |
|           |                                                                                 | Z | 4.47   | 66.72  | 16.25 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.36   | 66.74  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.25   | 66.49  | 16.03 |      | 150.0 |         |
|           |                                                                                 | Z | 4.47   | 66.72  | 16.25 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.36   | 66.94  | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.24   | 66.70  | 16.10 |      | 150.0 |         |
|           |                                                                                 | Z | 4.46   | 66.90  | 16.28 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.37   | 66.88  | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.26   | 66.63  | 16.08 |      | 150.0 |         |
|           |                                                                                 | Z | 4.48   | 66.84  | 16.27 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.48   | 66.85  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.36   | 66.61  | 16.10 |      | 150.0 |         |
|           |                                                                                 | Z | 4.59   | 66.83  | 16.28 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.61   | 67.11  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.48   | 66.86  | 16.18 |      | 150.0 |         |
|           |                                                                                 | Z | 4.74   | 67.12  | 16.39 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.54   | 67.07  | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.41   | 66.80  | 16.16 |      | 150.0 |         |
|           |                                                                                 | Z | 4.67   | 67.08  | 16.37 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.16   | 67.27  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.07   | 67.06  | 16.43 |      | 150.0 |         |
|           |                                                                                 | Z | 5.27   | 67.31  | 16.52 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.19   | 67.36  | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.11   | 67.21  | 16.50 |      | 150.0 |         |
|           |                                                                                 | Z | 5.29   | 67.39  | 16.56 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.15   | 67.15  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.05   | 66.92  | 16.35 |      | 150.0 |         |
|           |                                                                | Z | 5.29   | 67.32  | 16.52 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.13   | 71.63  | 18.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.04   | 71.80  | 17.87 |      | 150.0 |         |
|           |                                                                | Z | 4.24   | 71.33  | 18.28 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 3.98   | 67.33  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.82   | 66.99  | 15.77 |      | 150.0 |         |
|           |                                                                | Z | 4.13   | 67.31  | 16.22 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.30   | 67.17  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.16   | 66.88  | 16.04 |      | 150.0 |         |
|           |                                                                | Z | 4.44   | 67.15  | 16.31 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.56   | 67.10  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.43   | 66.84  | 16.18 |      | 150.0 |         |
|           |                                                                | Z | 4.68   | 67.11  | 16.38 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.21   | 72.43  | 17.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.02   | 72.13  | 17.33 |      | 150.0 |         |
|           |                                                                | Z | 4.36   | 72.29  | 18.24 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 130.49 | 33.41 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 7.23   | 93.06  | 23.51 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 127.27 | 32.44 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.23   | 67.15  | 14.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.99   | 66.38  | 14.22 |      | 150.0 |         |
|           |                                                                | Z | 3.41   | 67.32  | 15.43 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 3.85   | 67.13  | 15.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.70   | 66.79  | 15.65 |      | 150.0 |         |
|           |                                                                | Z | 3.98   | 67.10  | 16.09 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.14   | 66.99  | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.01   | 66.70  | 15.93 |      | 150.0 |         |
|           |                                                                | Z | 4.26   | 66.99  | 16.21 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.35   | 66.88  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.24   | 66.60  | 16.03 |      | 150.0 |         |
|           |                                                                | Z | 4.46   | 66.89  | 16.24 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.03   | 66.94  | 14.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.74   | 65.82  | 13.24 |      | 150.0 |         |
|           |                                                                | Z | 3.28   | 67.41  | 14.95 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.09   | 67.84  | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.04   | 67.64  | 16.64 |      | 150.0 |         |
|           |                                                                | Z | 6.16   | 67.89  | 16.69 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.71   | 65.47  | 15.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.63   | 65.29  | 15.77 |      | 150.0 |         |
|           |                                                                | Z | 3.76   | 65.38  | 15.96 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.68   | 70.87  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.22   | 69.09  | 15.19 |      | 150.0 |         |
|           |                                                                | Z | 3.98   | 71.44  | 17.50 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.80   | 68.74  | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.67   | 68.78  | 17.44 |      | 150.0 |         |
|           |                                                                | Z | 5.01   | 68.70  | 18.12 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.89   | 68.93  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.74   | 66.32  | 14.37 |      | 150.0 |         |
|           |                                                                   | Z | 0.92   | 69.15  | 16.62 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 137.30 | 36.57 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 6.13   | 92.80  | 24.45 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 133.20 | 35.21 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 15.12  | 88.86  | 18.44 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 7.86  |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 108.13 | 23.63 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.99   | 62.79  | 9.19  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.67   | 60.00  | 7.14  |      | 80.0  |         |
|           |                                                                   | Z | 2.42   | 69.75  | 12.56 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 134.21 | 34.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.13   | 86.25  | 21.66 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.41 | 33.73 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.03   | 76.34  | 14.86 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 7.79  |      | 80.0  |         |
|           |                                                                   | Z | 15.84  | 89.39  | 19.16 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.89   | 61.75  | 8.65  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.67   | 60.00  | 7.09  |      | 80.0  |         |
|           |                                                                   | Z | 1.81   | 66.98  | 11.45 |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 134.66 | 35.13 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.79   | 88.41  | 22.38 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.77 | 33.89 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.49   | 79.30  | 15.79 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 7.82  |      | 80.0  |         |
|           |                                                                   | Z | 24.36  | 93.78  | 20.29 |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.89   | 61.79  | 8.68  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.67   | 60.00  | 7.10  |      | 80.0  |         |
|           |                                                                   | Z | 1.83   | 67.07  | 11.49 |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 134.72 | 35.15 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.83   | 88.57  | 22.42 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.82 | 33.90 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.29   | 78.91  | 15.65 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 7.80  |      | 80.0  |         |
|           |                                                                   | Z | 23.55  | 93.39  | 20.18 |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.88   | 61.71  | 8.62  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.67   | 60.00  | 7.08  |      | 80.0  |         |
|           |                                                                   | Z | 1.80   | 66.95  | 11.42 |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 134.68 | 35.13 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.79   | 88.44  | 22.37 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.78 | 33.88 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.16   | 78.70  | 15.59 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 7.80  |      | 80.0  |         |
|           |                                                                   | Z | 22.73  | 93.06  | 20.09 |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.88   | 61.69  | 8.61  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.67   | 60.00  | 7.08  |      | 80.0  |         |
|           |                                                                   | Z | 1.79   | 66.89  | 11.40 |      | 80.0  |         |

|           |                                                                     |   |       |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 4.09  | 76.45  | 14.87 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.66  | 60.00  | 7.77  |      | 80.0 |         |
|           |                                                                     | Z | 16.45 | 89.73  | 19.22 |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.87  | 61.63  | 8.57  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.67  | 60.00  | 7.06  |      | 80.0 |         |
|           |                                                                     | Z | 1.77  | 66.77  | 11.34 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 64.96 | 122.20 | 32.88 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 8.24  | 90.55  | 23.79 |      | 80.0 |         |
|           |                                                                     | Z | 18.96 | 102.19 | 28.11 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 48.00 | 105.39 | 25.52 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.01  | 71.68  | 14.83 |      | 80.0 |         |
|           |                                                                     | Z | 20.12 | 94.99  | 23.64 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 14.61 | 89.35  | 20.77 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.97  | 66.45  | 12.25 |      | 80.0 |         |
|           |                                                                     | Z | 12.07 | 87.22  | 20.93 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.30  | 75.03  | 17.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.18  | 62.23  | 10.62 |      | 80.0 |         |
|           |                                                                     | Z | 4.24  | 78.18  | 19.24 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.42  | 71.22  | 14.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.39  | 61.12  | 9.38  |      | 80.0 |         |
|           |                                                                     | Z | 5.32  | 76.71  | 17.86 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.01  | 69.44  | 14.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.38  | 60.75  | 9.17  |      | 80.0 |         |
|           |                                                                     | Z | 4.65  | 74.70  | 17.12 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.87  | 77.94  | 20.02 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.86  | 67.39  | 14.76 |      | 80.0 |         |
|           |                                                                     | Z | 4.22  | 78.52  | 20.59 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.07  | 70.51  | 16.11 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.79  | 63.46  | 11.95 |      | 80.0 |         |
|           |                                                                     | Z | 3.54  | 71.97  | 17.29 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.00  | 69.76  | 15.76 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.79  | 63.16  | 11.77 |      | 80.0 |         |
|           |                                                                     | Z | 3.48  | 71.29  | 16.97 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.54  | 74.57  | 19.88 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.42  | 68.75  | 16.87 |      | 80.0 |         |
|           |                                                                     | Z | 3.90  | 75.19  | 20.14 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.33  | 70.09  | 17.76 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.60  | 66.53  | 15.60 |      | 80.0 |         |
|           |                                                                     | Z | 3.55  | 70.38  | 18.05 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.39  | 69.82  | 17.63 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.68  | 66.43  | 15.54 |      | 80.0 |         |
|           |                                                                     | Z | 3.62  | 70.10  | 17.92 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.61  | 72.02  | 19.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.77  | 67.99  | 16.85 |      | 80.0 |         |
|           |                                                                     | Z | 3.94  | 72.64  | 19.22 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.57  | 68.74  | 17.59 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.01  | 66.25  | 16.06 |      | 80.0 |         |
|           |                                                                     | Z | 3.80  | 69.07  | 17.79 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.63 | 68.57 | 17.51 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.07 | 66.16 | 16.01 |      | 80.0 |         |
|           |                                                                      | Z | 3.86 | 68.89 | 17.71 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.95 | 73.72 | 19.61 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.92 | 69.02 | 17.24 |      | 80.0 |         |
|           |                                                                      | Z | 4.37 | 74.57 | 19.86 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.60 | 69.01 | 17.81 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.03 | 66.45 | 16.29 |      | 80.0 |         |
|           |                                                                      | Z | 3.84 | 69.45 | 18.01 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.67 | 68.71 | 17.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.12 | 66.33 | 16.26 |      | 80.0 |         |
|           |                                                                      | Z | 3.90 | 69.09 | 17.88 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.56 | 65.21 | 11.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 0.90 | 60.00 | 7.81  |      | 80.0 |         |
|           |                                                                      | Z | 2.71 | 71.48 | 15.42 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.15 | 60.00 | 7.82  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.09 | 60.00 | 6.55  |      | 80.0 |         |
|           |                                                                      | Z | 1.48 | 61.69 | 9.75  |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.17 | 60.00 | 7.64  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.11 | 60.00 | 6.38  |      | 80.0 |         |
|           |                                                                      | Z | 1.41 | 60.95 | 9.19  |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.62 | 76.17 | 19.83 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.10 | 68.11 | 15.69 |      | 80.0 |         |
|           |                                                                      | Z | 3.94 | 76.57 | 20.21 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.25 | 70.74 | 16.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.16 | 65.12 | 13.56 |      | 80.0 |         |
|           |                                                                      | Z | 3.56 | 71.41 | 17.61 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.28 | 70.43 | 16.68 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.19 | 64.94 | 13.39 |      | 80.0 |         |
|           |                                                                      | Z | 3.61 | 71.16 | 17.42 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.49 | 74.33 | 19.77 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.39 | 68.57 | 16.76 |      | 80.0 |         |
|           |                                                                      | Z | 3.84 | 74.95 | 20.03 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.31 | 69.98 | 17.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.59 | 66.42 | 15.53 |      | 80.0 |         |
|           |                                                                      | Z | 3.53 | 70.27 | 17.98 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.37 | 69.72 | 17.57 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.66 | 66.34 | 15.48 |      | 80.0 |         |
|           |                                                                      | Z | 3.60 | 70.00 | 17.86 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.92 | 73.56 | 19.53 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.90 | 68.89 | 17.16 |      | 80.0 |         |
|           |                                                                      | Z | 4.33 | 74.40 | 19.77 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.58 | 68.95 | 17.77 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.02 | 66.39 | 16.25 |      | 80.0 |         |
|           |                                                                      | Z | 3.82 | 69.38 | 17.97 |      | 80.0 |         |