

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



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **HCT (Dymstec)**

Certificate No: **EX3-3968 Sep18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3968**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,  
QA CAL-25.v6  
Calibration procedure for dosimetric E-field probes**

Calibration date: **September 25, 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-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-18 (No. 217-02673)         | Apr-19                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| 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-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name          | Function              | Signature |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------|
| Calibrated by:                                                                                                  | Jeton Kasrati | Laboratory Technician |           |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |           |
| Issued: September 27, 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 $\theta$  | $\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\theta = 0$ is normal to probe axis |
| Connector Angle        | information used in DASY system to align probe sensor X to the robot coordinate system                                                            |

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

- 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  $\theta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(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 (no uncertainty required).

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# Probe EX3DV4

## SN:3968

|               |                    |
|---------------|--------------------|
| Manufactured: | September 30, 2013 |
| Repaired:     | September 13, 2018 |
| Calibrated:   | September 25, 2018 |

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

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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3968

### Basic Calibration Parameters

|                                       | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---------------------------------------|----------|----------|----------|-----------|
| Norm ( $\mu V/(V/m)^2$ ) <sup>A</sup> | 0.56     | 0.57     | 0.56     | ± 10.1 %  |
| DCP (mV) <sup>B</sup>                 | 98.0     | 99.0     | 97.6     |           |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | 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    | 171.6    | ±2.7 %                    |
|     |                           | Y | 0.0     | 0.0                    | 1.0 |         | 161.8    |                           |
|     |                           | Z | 0.0     | 0.0                    | 1.0 |         | 178.8    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>V <sup>-1</sup> | T1<br>ms.V <sup>-2</sup> | T2<br>ms.V <sup>-1</sup> | T3<br>ms | T4<br>V <sup>-2</sup> | T5<br>V <sup>-1</sup> | T6    |
|---|----------|----------|-----------------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|-------|
| X | 46.84    | 361.8    | 37.71                       | 11.82                    | 0.384                    | 5.084    | 0.048                 | 0.556                 | 1.008 |
| Y | 48.24    | 363.7    | 36.17                       | 17.75                    | 0.176                    | 5.100    | 1.558                 | 0.280                 | 1.009 |
| Z | 45.97    | 356.8    | 37.98                       | 12.75                    | 0.415                    | 5.100    | 0.000                 | 0.555                 | 1.011 |

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

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

<sup>B</sup> 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.



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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3968

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>c</sup> | Relative Permittivity <sup>e</sup> | Conductivity (S/m) <sup>f</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>g</sup> | Depth <sup>h</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 600                  | 42.7                               | 0.88                            | 10.56   | 10.56   | 10.56   | 0.09               | 1.20                    | ± 13.3 %  |
| 750                  | 41.9                               | 0.89                            | 10.04   | 10.04   | 10.04   | 0.34               | 1.05                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 9.86    | 9.86    | 9.86    | 0.47               | 0.84                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.70    | 9.70    | 9.70    | 0.41               | 0.89                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 8.51    | 8.51    | 8.51    | 0.30               | 0.88                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.57    | 8.57    | 8.57    | 0.31               | 0.90                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.19    | 8.19    | 8.19    | 0.37               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.52    | 7.52    | 7.52    | 0.33               | 0.97                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.37    | 7.37    | 7.37    | 0.39               | 0.93                    | ± 12.0 %  |
| 3500                 | 37.9                               | 2.91                            | 7.11    | 7.11    | 7.11    | 0.23               | 1.20                    | ± 13.1 %  |
| 5250                 | 35.9                               | 4.71                            | 5.52    | 5.52    | 5.52    | 0.40               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.78    | 4.78    | 4.78    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 4.94    | 4.94    | 4.94    | 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>e</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.

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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3968

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>c</sup> | Relative Permittivity <sup>e</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) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 600                  | 56.1                               | 0.95                            | 10.50   | 10.50   | 10.50   | 0.10               | 1.20                    | ± 13.3 %  |
| 750                  | 55.5                               | 0.96                            | 10.07   | 10.07   | 10.07   | 0.49               | 0.80                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 9.86    | 9.86    | 9.86    | 0.49               | 0.82                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.19    | 8.19    | 8.19    | 0.36               | 0.92                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 7.76    | 7.76    | 7.76    | 0.39               | 0.92                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.54    | 7.54    | 7.54    | 0.35               | 0.95                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.50    | 7.50    | 7.50    | 0.33               | 1.05                    | ± 12.0 %  |
| 3500                 | 51.3                               | 3.31                            | 7.00    | 7.00    | 7.00    | 0.25               | 1.20                    | ± 13.1 %  |
| 5250                 | 48.9                               | 5.36                            | 4.98    | 4.98    | 4.98    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.28    | 4.28    | 4.28    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.49    | 4.49    | 4.49    | 0.50 <sup>h</sup>  | 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.

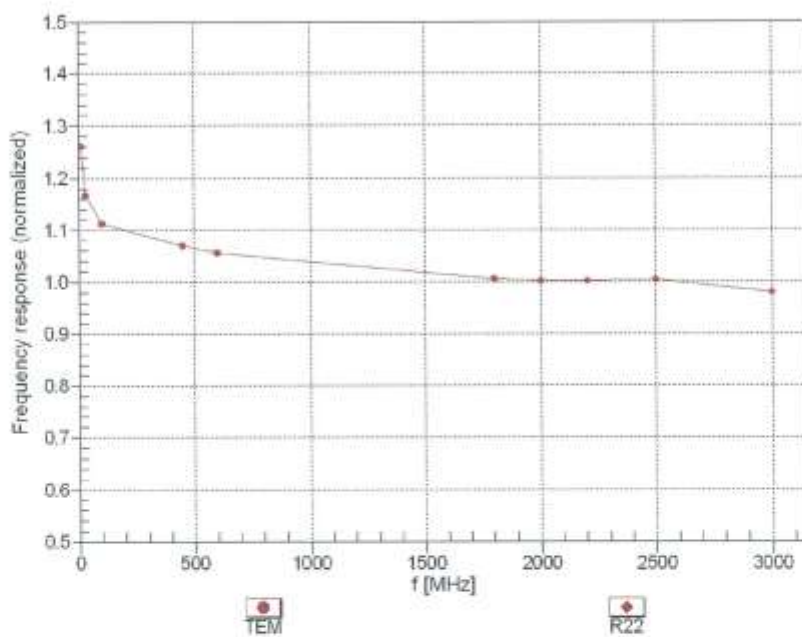
<sup>e</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted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

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

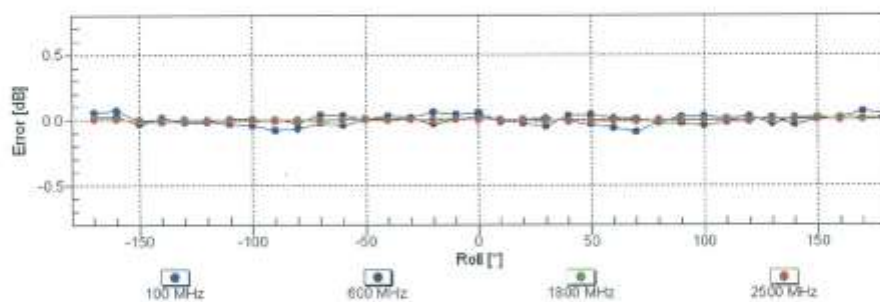
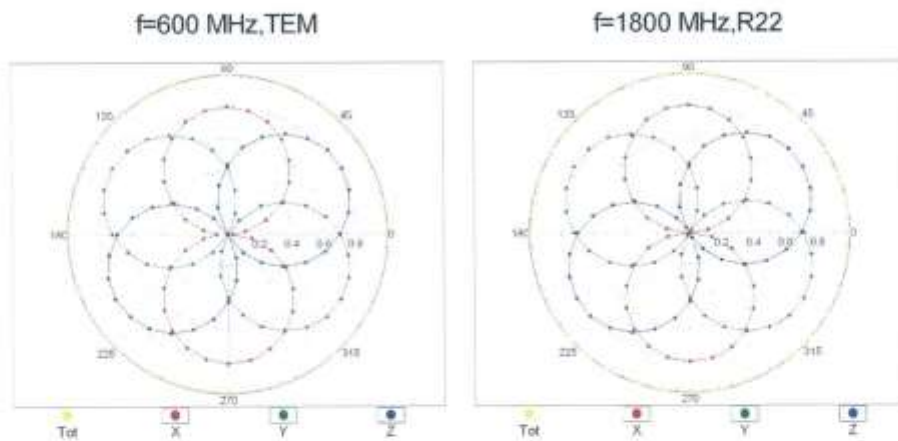


Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

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



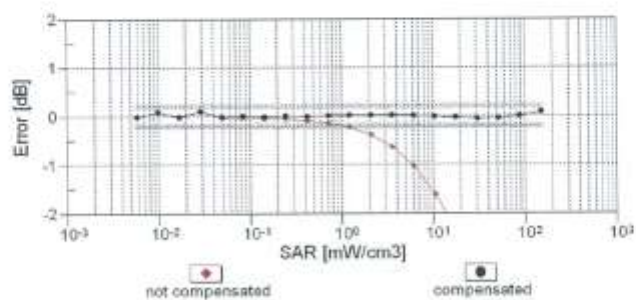
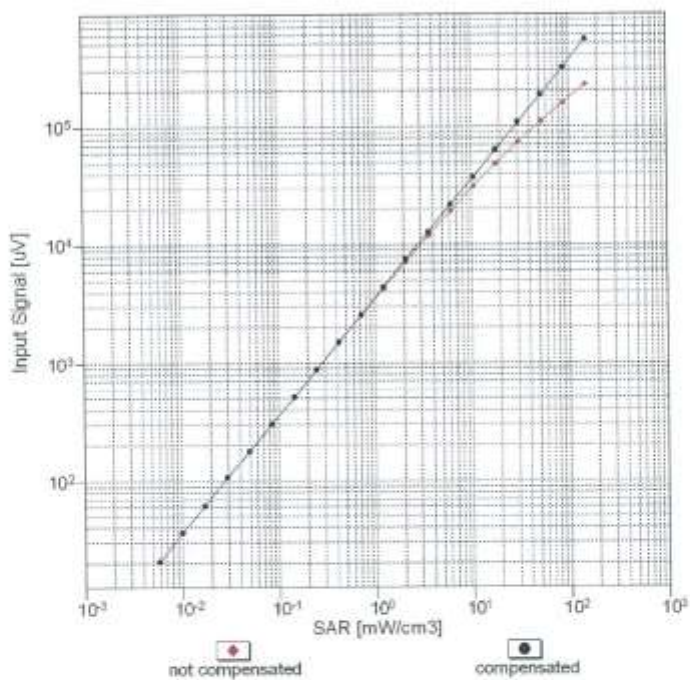
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  (k=2)



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

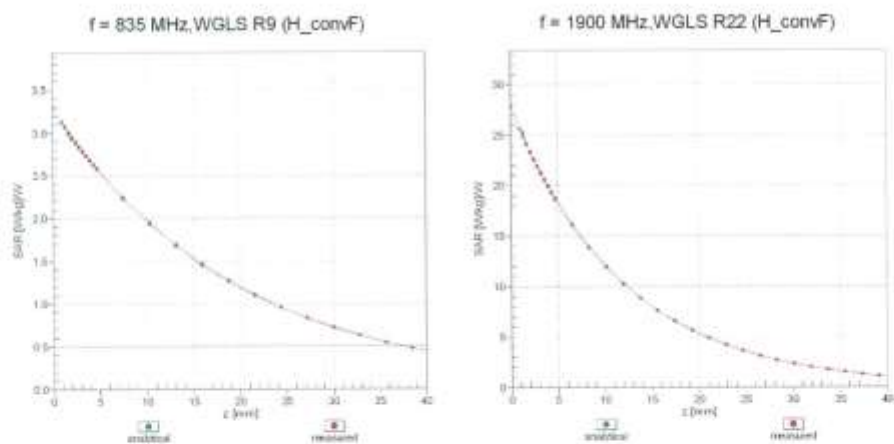


Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

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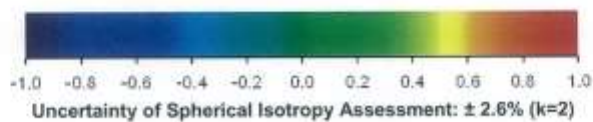
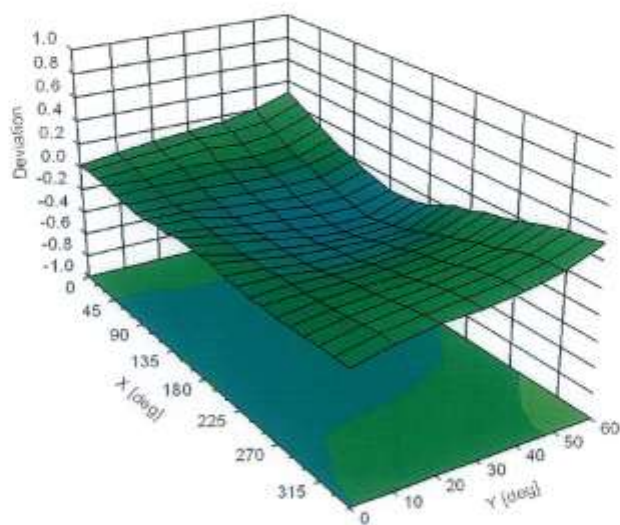
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## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3968

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 89.8       |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

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**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB-μV | 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    | 171.6    | ± 2.7 %                          |
|               |                                               | Y | 0.00    | 0.00       | 1.00  |         | 161.8    |                                  |
|               |                                               | Z | 0.00    | 0.00       | 1.00  |         | 178.8    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 2.04    | 65.17      | 9.68  | 10.00   | 20.0     | ± 9.6 %                          |
|               |                                               | Y | 8.16    | 79.85      | 15.61 |         | 20.0     |                                  |
|               |                                               | Z | 2.07    | 65.29      | 9.80  |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 0.90    | 65.65      | 13.92 | 0.00    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.01    | 66.71      | 14.83 |         | 150.0    |                                  |
|               |                                               | Z | 0.85    | 64.91      | 13.28 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.09    | 63.09      | 14.68 | 0.41    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.18    | 63.85      | 15.22 |         | 150.0    |                                  |
|               |                                               | Z | 1.07    | 62.88      | 14.43 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.82    | 66.49      | 17.05 | 1.46    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 4.90    | 66.72      | 17.19 |         | 150.0    |                                  |
|               |                                               | Z | 4.80    | 66.47      | 17.03 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 112.95     | 26.54 | 8.39    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 116.78     | 28.34 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 113.62     | 26.91 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 112.47     | 26.37 | 9.57    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 116.29     | 28.16 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 113.15     | 26.74 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 112.42     | 25.25 | 6.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 116.67     | 27.49 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 112.63     | 25.42 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 4.17    | 71.31      | 27.26 | 12.57   | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 18.57   | 125.03     | 51.51 |         | 50.0     |                                  |
|               |                                               | Z | 4.56    | 74.25      | 28.97 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 8.55    | 91.99      | 33.25 | 9.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 17.88   | 112.30     | 40.96 |         | 60.0     |                                  |
|               |                                               | Z | 9.37    | 94.40      | 34.22 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 112.80     | 24.64 | 4.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 118.20     | 27.50 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 112.38     | 24.54 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 113.26     | 24.14 | 3.55    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 120.76     | 27.96 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 111.87     | 23.62 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 5.36    | 80.78      | 27.54 | 7.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 8.03    | 90.56      | 31.77 |         | 80.0     |                                  |
|               |                                               | Z | 5.68    | 82.14      | 28.14 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 110.54     | 23.97 | 5.30    | 70.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 115.44     | 26.56 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 110.48     | 24.01 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 102.53     | 18.42 | 1.88    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 120.75     | 26.58 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 98.98      | 17.01 |         | 100.0    |                                  |



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|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 94.07  | 14.33 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 127.26 | 28.22 |       | 100.0 |         |
|           |                                                     | Z | 0.19   | 60.00  | 4.45  |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 33.86  | 113.15 | 30.86 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 131.70 | 35.94 |       | 70.0  |         |
|           |                                                     | Z | 47.35  | 117.79 | 31.89 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 3.06   | 78.07  | 18.40 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.91   | 87.15  | 22.07 |       | 100.0 |         |
|           |                                                     | Z | 3.00   | 77.34  | 17.88 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 1.81   | 71.83  | 15.59 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.81   | 77.49  | 18.37 |       | 100.0 |         |
|           |                                                     | Z | 1.71   | 70.83  | 14.89 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 85.81  | 128.27 | 34.60 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 132.16 | 36.15 |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 129.96 | 34.84 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 2.81   | 77.00  | 17.98 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.36   | 85.87  | 21.63 |       | 100.0 |         |
|           |                                                     | Z | 2.75   | 76.32  | 17.47 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 1.83   | 72.24  | 15.88 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.84   | 77.93  | 18.66 |       | 100.0 |         |
|           |                                                     | Z | 1.73   | 71.23  | 15.18 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 1.37   | 68.10  | 13.32 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.65   | 70.32  | 14.90 |       | 150.0 |         |
|           |                                                     | Z | 1.20   | 66.45  | 12.23 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 108.41 | 23.72 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 112.64 | 25.84 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 108.62 | 23.87 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.05   | 120.80 | 5.80  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 95.70  | 1.57  |       | 150.0 |         |
|           |                                                     | Z | 0.08   | 122.23 | 6.34  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 100.00 | 109.98 | 26.73 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 116.82 | 29.41 |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 111.08 | 27.25 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 100.00 | 111.11 | 26.09 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 114.75 | 27.66 |       | 40.0  |         |
|           |                                                     | Z | 100.00 | 111.84 | 26.47 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 100.00 | 124.74 | 33.65 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 127.81 | 35.22 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 124.78 | 33.70 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.18   | 75.71  | 24.53 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.57   | 81.92  | 27.38 |       | 100.0 |         |
|           |                                                     | Z | 4.36   | 76.62  | 24.94 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.12   | 64.15  | 15.32 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.24   | 65.19  | 16.01 |       | 110.0 |         |
|           |                                                     | Z | 1.10   | 63.98  | 15.09 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 17.73  | 112.41 | 29.57 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 139.22 | 36.38 |       | 110.0 |         |
|           |                                                     | Z | 18.16  | 111.27 | 28.85 |       | 110.0 |         |



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|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 2.73 | 80.78 | 22.58 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 4.63 | 89.02 | 25.72 |      | 110.0 |         |
|           |                                                | Z | 2.93 | 81.74 | 22.80 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.61 | 66.43 | 16.43 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.69 | 66.64 | 16.54 |      | 100.0 |         |
|           |                                                | Z | 4.58 | 66.37 | 16.37 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.63 | 66.53 | 16.53 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.71 | 66.75 | 16.66 |      | 100.0 |         |
|           |                                                | Z | 4.60 | 66.48 | 16.48 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.92 | 66.82 | 16.78 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.01 | 67.04 | 16.90 |      | 100.0 |         |
|           |                                                | Z | 4.89 | 66.77 | 16.74 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.78 | 66.71 | 16.89 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.88 | 66.96 | 17.03 |      | 100.0 |         |
|           |                                                | Z | 4.76 | 66.68 | 16.86 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.80 | 66.75 | 17.07 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.90 | 67.00 | 17.22 |      | 100.0 |         |
|           |                                                | Z | 4.78 | 66.72 | 17.05 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.09 | 66.94 | 17.54 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.19 | 67.20 | 17.70 |      | 100.0 |         |
|           |                                                | Z | 5.08 | 66.95 | 17.54 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.14 | 66.99 | 17.78 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.25 | 67.29 | 17.97 |      | 100.0 |         |
|           |                                                | Z | 5.13 | 67.00 | 17.79 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.22 | 66.99 | 17.97 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.33 | 67.29 | 18.16 |      | 100.0 |         |
|           |                                                | Z | 5.21 | 67.02 | 17.99 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.91 | 66.58 | 17.37 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.00 | 66.84 | 17.53 |      | 100.0 |         |
|           |                                                | Z | 4.90 | 66.59 | 17.37 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.88 | 66.90 | 17.60 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.99 | 67.19 | 17.78 |      | 100.0 |         |
|           |                                                | Z | 4.87 | 66.92 | 17.60 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.94 | 67.06 | 17.93 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.05 | 67.38 | 18.14 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 67.10 | 17.96 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.92 | 66.94 | 18.08 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.03 | 67.28 | 18.32 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 67.00 | 18.13 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.95 | 67.05 | 18.41 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.07 | 67.43 | 18.68 |      | 90.0  |         |
|           |                                                | Z | 4.96 | 67.12 | 18.46 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.96 | 66.81 | 18.52 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.07 | 67.20 | 18.79 |      | 90.0  |         |
|           |                                                | Z | 4.97 | 66.91 | 18.59 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.98 | 66.88 | 18.61 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.09 | 67.26 | 18.89 |      | 90.0  |         |
|           |                                                | Z | 4.99 | 66.97 | 18.68 |      | 90.0  |         |

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|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.67   | 63.43  | 10.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.80   | 65.03  | 12.00 |      | 150.0 |         |
|           |                                                     | Z | 0.60   | 62.42  | 9.53  |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.74   | 60.59  | 4.32  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.77   | 60.00  | 4.71  |      | 80.0  |         |
|           |                                                     | Z | 0.68   | 60.00  | 4.18  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 112.51 | 25.31 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 116.70 | 27.52 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 112.75 | 25.49 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.70   | 66.59  | 14.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.80   | 67.17  | 15.37 |      | 150.0 |         |
|           |                                                     | Z | 1.64   | 66.09  | 14.46 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.66   | 66.53  | 14.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.76   | 67.13  | 15.34 |      | 150.0 |         |
|           |                                                     | Z | 1.60   | 66.03  | 14.41 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 8.62   | 92.18  | 33.31 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 18.17  | 112.67 | 41.07 |      | 60.0  |         |
|           |                                                     | Z | 9.46   | 94.60  | 34.29 |      | 60.0  |         |
| 10100-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 2.94   | 69.26  | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.08   | 69.91  | 16.47 |      | 150.0 |         |
|           |                                                     | Z | 2.86   | 68.79  | 15.77 |      | 150.0 |         |
| 10101-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.13   | 66.93  | 15.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.23   | 67.31  | 15.81 |      | 150.0 |         |
|           |                                                     | Z | 3.08   | 66.69  | 15.39 |      | 150.0 |         |
| 10102-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.24   | 66.93  | 15.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.33   | 67.27  | 15.89 |      | 150.0 |         |
|           |                                                     | Z | 3.19   | 66.70  | 15.51 |      | 150.0 |         |
| 10103-CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 5.89   | 75.24  | 20.52 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.02   | 77.93  | 21.63 |      | 65.0  |         |
|           |                                                     | Z | 6.16   | 76.00  | 20.83 |      | 65.0  |         |
| 10104-CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 5.91   | 73.19  | 20.43 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.61   | 75.57  | 21.49 |      | 65.0  |         |
|           |                                                     | Z | 5.99   | 73.46  | 20.55 |      | 65.0  |         |
| 10105-CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 5.43   | 71.36  | 19.90 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.17   | 73.49  | 20.88 |      | 65.0  |         |
|           |                                                     | Z | 5.70   | 72.30  | 20.34 |      | 65.0  |         |
| 10108-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.57   | 68.54  | 15.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.69   | 69.13  | 16.28 |      | 150.0 |         |
|           |                                                     | Z | 2.49   | 68.09  | 15.58 |      | 150.0 |         |
| 10109-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.78   | 66.74  | 15.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.88   | 67.12  | 15.68 |      | 150.0 |         |
|           |                                                     | Z | 2.73   | 66.46  | 15.20 |      | 150.0 |         |
| 10110-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.06   | 67.61  | 15.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.19   | 68.23  | 15.87 |      | 150.0 |         |
|           |                                                     | Z | 1.99   | 67.12  | 15.05 |      | 150.0 |         |
| 10111-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.47   | 67.39  | 15.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.57   | 67.74  | 15.85 |      | 150.0 |         |
|           |                                                     | Z | 2.40   | 66.99  | 15.24 |      | 150.0 |         |

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|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 2.91 | 66.77 | 15.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.00 | 67.11 | 15.74 |      | 150.0 |         |
|           |                                                | Z | 2.85 | 66.51 | 15.30 |      | 150.0 |         |
| 10113-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.63 | 67.58 | 15.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.72 | 67.88 | 15.98 |      | 150.0 |         |
|           |                                                | Z | 2.56 | 67.21 | 15.43 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.07 | 66.97 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.13 | 67.11 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 5.04 | 66.87 | 16.27 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.36 | 67.10 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.42 | 67.26 | 16.48 |      | 150.0 |         |
|           |                                                | Z | 5.32 | 67.00 | 16.35 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.17 | 67.15 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.31 | 16.42 |      | 150.0 |         |
|           |                                                | Z | 5.13 | 67.04 | 16.28 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.03 | 66.79 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.09 | 66.97 | 16.34 |      | 150.0 |         |
|           |                                                | Z | 4.99 | 66.69 | 16.20 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.45 | 67.34 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.50 | 67.47 | 16.60 |      | 150.0 |         |
|           |                                                | Z | 5.41 | 67.24 | 16.48 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.15 | 67.11 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 67.25 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 5.11 | 67.02 | 16.28 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.27 | 66.94 | 15.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.37 | 67.29 | 15.82 |      | 150.0 |         |
|           |                                                | Z | 3.22 | 66.71 | 15.43 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.40 | 67.07 | 15.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.49 | 67.38 | 15.98 |      | 150.0 |         |
|           |                                                | Z | 3.35 | 66.84 | 15.63 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 1.82 | 67.38 | 14.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.95 | 68.11 | 15.47 |      | 150.0 |         |
|           |                                                | Z | 1.74 | 66.77 | 14.42 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.29 | 67.77 | 15.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.41 | 68.29 | 15.47 |      | 150.0 |         |
|           |                                                | Z | 2.19 | 67.17 | 14.54 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.09 | 65.65 | 13.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.22 | 66.30 | 14.02 |      | 150.0 |         |
|           |                                                | Z | 2.01 | 65.21 | 13.07 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.02 | 63.04 | 10.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.19 | 64.55 | 11.49 |      | 150.0 |         |
|           |                                                | Z | 0.94 | 62.23 | 9.40  |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 1.64 | 64.33 | 10.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.25 | 67.70 | 12.40 |      | 150.0 |         |
|           |                                                | Z | 1.61 | 64.22 | 10.34 |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 1.83 | 65.63 | 11.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.75 | 70.16 | 13.64 |      | 150.0 |         |
|           |                                                | Z | 1.80 | 65.52 | 11.13 |      | 150.0 |         |

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|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.79 | 66.80 | 15.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.89 | 67.17 | 15.72 |      | 150.0 |         |
|           |                                            | Z | 2.74 | 66.52 | 15.25 |      | 150.0 |         |
| 10150-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 2.92 | 66.82 | 15.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.01 | 67.16 | 15.77 |      | 150.0 |         |
|           |                                            | Z | 2.86 | 66.56 | 15.34 |      | 150.0 |         |
| 10151-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.38 | 78.39 | 21.90 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.96 | 81.84 | 23.27 |      | 65.0  |         |
|           |                                            | Z | 6.55 | 78.84 | 22.07 |      | 65.0  |         |
| 10152-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.44 | 73.19 | 20.13 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.39 | 75.81 | 21.33 |      | 65.0  |         |
|           |                                            | Z | 5.54 | 73.50 | 20.26 |      | 65.0  |         |
| 10153-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 5.81 | 74.18 | 20.94 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.76 | 76.68 | 22.05 |      | 65.0  |         |
|           |                                            | Z | 5.90 | 74.49 | 21.07 |      | 65.0  |         |
| 10154-CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.10 | 67.98 | 15.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.23 | 68.58 | 16.10 |      | 150.0 |         |
|           |                                            | Z | 2.03 | 67.46 | 15.28 |      | 150.0 |         |
| 10155-CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.48 | 67.41 | 15.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.58 | 67.75 | 15.87 |      | 150.0 |         |
|           |                                            | Z | 2.41 | 67.01 | 15.26 |      | 150.0 |         |
| 10156-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.65 | 67.22 | 14.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.79 | 68.09 | 15.21 |      | 150.0 |         |
|           |                                            | Z | 1.56 | 66.49 | 13.94 |      | 150.0 |         |
| 10157-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 1.89 | 65.92 | 13.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.04 | 66.73 | 13.98 |      | 150.0 |         |
|           |                                            | Z | 1.81 | 65.34 | 12.80 |      | 150.0 |         |
| 10158-CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.63 | 67.65 | 15.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.73 | 67.93 | 16.02 |      | 150.0 |         |
|           |                                            | Z | 2.56 | 67.26 | 15.47 |      | 150.0 |         |
| 10159-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 1.99 | 66.31 | 13.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.14 | 67.12 | 14.23 |      | 150.0 |         |
|           |                                            | Z | 1.89 | 65.68 | 13.04 |      | 150.0 |         |
| 10160-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.62 | 67.95 | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.71 | 68.30 | 16.11 |      | 150.0 |         |
|           |                                            | Z | 2.56 | 67.61 | 15.57 |      | 150.0 |         |
| 10161-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.81 | 66.75 | 15.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.91 | 67.09 | 15.69 |      | 150.0 |         |
|           |                                            | Z | 2.75 | 66.47 | 15.23 |      | 150.0 |         |
| 10162-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 2.92 | 66.92 | 15.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.01 | 67.23 | 15.81 |      | 150.0 |         |
|           |                                            | Z | 2.86 | 66.66 | 15.36 |      | 150.0 |         |
| 10166-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.47 | 69.06 | 18.90 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.75 | 70.40 | 19.62 |      | 150.0 |         |
|           |                                            | Z | 3.46 | 69.17 | 19.02 |      | 150.0 |         |
| 10167-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.19 | 71.60 | 19.20 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.88 | 74.37 | 20.47 |      | 150.0 |         |
|           |                                            | Z | 4.17 | 71.73 | 19.32 |      | 150.0 |         |

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|-----------|--------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.66   | 73.93  | 20.59 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.47   | 76.81  | 21.82 |      | 150.0 |         |
|           |                                            | Z | 4.64   | 74.07  | 20.71 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.85   | 68.15  | 18.49 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.24   | 70.73  | 19.81 |      | 150.0 |         |
|           |                                            | Z | 2.83   | 68.15  | 18.57 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 3.77   | 73.38  | 20.58 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.05   | 79.05  | 22.92 |      | 150.0 |         |
|           |                                            | Z | 3.72   | 73.34  | 20.65 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.13   | 69.50  | 17.87 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.98   | 74.01  | 19.90 |      | 150.0 |         |
|           |                                            | Z | 3.11   | 69.53  | 17.97 |      | 150.0 |         |
| 10172-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 6.35   | 87.03  | 27.58 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 15.94  | 106.71 | 34.46 |      | 65.0  |         |
|           |                                            | Z | 8.03   | 92.20  | 29.65 |      | 65.0  |         |
| 10173-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 14.65  | 99.05  | 29.57 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 134.50 | 39.08 |      | 65.0  |         |
|           |                                            | Z | 17.81  | 103.32 | 31.13 |      | 65.0  |         |
| 10174-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 10.22  | 91.37  | 26.56 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 131.83 | 37.69 |      | 65.0  |         |
|           |                                            | Z | 13.56  | 96.88  | 28.56 |      | 65.0  |         |
| 10175-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.82   | 67.86  | 18.25 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.20   | 70.41  | 19.56 |      | 150.0 |         |
|           |                                            | Z | 2.80   | 67.86  | 18.33 |      | 150.0 |         |
| 10176-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 3.78   | 73.40  | 20.59 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.06   | 79.08  | 22.94 |      | 150.0 |         |
|           |                                            | Z | 3.73   | 73.36  | 20.66 |      | 150.0 |         |
| 10177-CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.84   | 68.00  | 18.34 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.22   | 70.56  | 19.65 |      | 150.0 |         |
|           |                                            | Z | 2.82   | 68.00  | 18.42 |      | 150.0 |         |
| 10178-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 3.75   | 73.20  | 20.48 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.00   | 78.82  | 22.81 |      | 150.0 |         |
|           |                                            | Z | 3.70   | 73.17  | 20.56 |      | 150.0 |         |
| 10179-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 3.42   | 71.31  | 19.09 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.47   | 76.39  | 21.27 |      | 150.0 |         |
|           |                                            | Z | 3.39   | 71.32  | 19.18 |      | 150.0 |         |
| 10180-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.13   | 69.44  | 17.83 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.97   | 73.93  | 19.85 |      | 150.0 |         |
|           |                                            | Z | 3.10   | 69.48  | 17.93 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.84   | 67.98  | 18.33 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.22   | 70.55  | 19.65 |      | 150.0 |         |
|           |                                            | Z | 2.82   | 67.98  | 18.41 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 3.74   | 73.18  | 20.47 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.99   | 78.80  | 22.80 |      | 150.0 |         |
|           |                                            | Z | 3.69   | 73.15  | 20.55 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.12   | 69.42  | 17.82 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.96   | 73.90  | 19.84 |      | 150.0 |         |
|           |                                            | Z | 3.10   | 69.45  | 17.92 |      | 150.0 |         |



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|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.85 | 68.02 | 18.35 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.23 | 70.59 | 19.67 |      | 150.0 |         |
|           |                                               | Z | 2.83 | 68.02 | 18.43 |      | 150.0 |         |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 3.76 | 73.25 | 20.51 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.02 | 78.88 | 22.84 |      | 150.0 |         |
|           |                                               | Z | 3.71 | 73.22 | 20.58 |      | 150.0 |         |
| 10186-AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.14 | 69.48 | 17.85 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.98 | 73.98 | 19.87 |      | 150.0 |         |
|           |                                               | Z | 3.11 | 69.52 | 17.95 |      | 150.0 |         |
| 10187-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.86 | 68.08 | 18.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.24 | 70.65 | 19.73 |      | 150.0 |         |
|           |                                               | Z | 2.84 | 68.08 | 18.50 |      | 150.0 |         |
| 10188-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 3.87 | 73.87 | 20.88 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.21 | 79.68 | 23.25 |      | 150.0 |         |
|           |                                               | Z | 3.82 | 73.81 | 20.94 |      | 150.0 |         |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 3.20 | 69.87 | 18.12 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.09 | 74.49 | 20.17 |      | 150.0 |         |
|           |                                               | Z | 3.17 | 69.90 | 18.22 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.45 | 66.33 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.52 | 66.51 | 16.09 |      | 150.0 |         |
|           |                                               | Z | 4.41 | 66.22 | 15.89 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.62 | 66.63 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.69 | 66.83 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.57 | 66.52 | 16.03 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.66 | 66.67 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.73 | 66.86 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.61 | 66.56 | 16.05 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.45 | 66.38 | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.52 | 66.57 | 16.10 |      | 150.0 |         |
|           |                                               | Z | 4.41 | 66.27 | 15.91 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.63 | 66.65 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.71 | 66.85 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.59 | 66.54 | 16.04 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.66 | 66.68 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.74 | 66.88 | 16.24 |      | 150.0 |         |
|           |                                               | Z | 4.62 | 66.57 | 16.06 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.40 | 66.39 | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.47 | 66.58 | 16.06 |      | 150.0 |         |
|           |                                               | Z | 4.36 | 66.27 | 15.86 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.62 | 66.62 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.70 | 66.82 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.58 | 66.51 | 16.03 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.67 | 66.62 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.74 | 66.81 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.63 | 66.51 | 16.05 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.01 | 66.80 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.07 | 66.99 | 16.34 |      | 150.0 |         |
|           |                                               | Z | 4.97 | 66.70 | 16.19 |      | 150.0 |         |

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|-----------|-------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.33   | 67.09  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.37   | 67.19  | 16.47 |      | 150.0 |         |
|           |                                           | Z | 5.29   | 67.02  | 16.38 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.05   | 66.91  | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.11   | 67.09  | 16.32 |      | 150.0 |         |
|           |                                           | Z | 5.01   | 66.81  | 16.17 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.70   | 65.61  | 14.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.79   | 65.91  | 15.17 |      | 150.0 |         |
|           |                                           | Z | 2.65   | 65.38  | 14.70 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 15.91  | 100.71 | 30.17 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 134.76 | 39.24 |      | 65.0  |         |
|           |                                           | Z | 19.48  | 105.15 | 31.77 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 15.46  | 98.54  | 28.84 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 131.75 | 37.69 |      | 65.0  |         |
|           |                                           | Z | 19.14  | 103.03 | 30.45 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 8.70   | 93.83  | 30.04 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 31.18  | 120.91 | 38.54 |      | 65.0  |         |
|           |                                           | Z | 9.84   | 96.88  | 31.33 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 14.77  | 99.16  | 29.61 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 134.48 | 39.08 |      | 65.0  |         |
|           |                                           | Z | 17.95  | 103.43 | 31.17 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 14.28  | 97.04  | 28.30 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 131.57 | 37.58 |      | 65.0  |         |
|           |                                           | Z | 17.53  | 101.34 | 29.87 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 8.28   | 92.74  | 29.58 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 28.48  | 118.85 | 37.89 |      | 65.0  |         |
|           |                                           | Z | 9.33   | 95.69  | 30.85 |      | 65.0  |         |
| 10232-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 14.74  | 99.14  | 29.60 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 134.50 | 39.08 |      | 65.0  |         |
|           |                                           | Z | 17.92  | 103.41 | 31.17 |      | 65.0  |         |
| 10233-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 14.24  | 97.01  | 28.29 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 131.59 | 37.58 |      | 65.0  |         |
|           |                                           | Z | 17.48  | 101.31 | 29.86 |      | 65.0  |         |
| 10234-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 7.96   | 91.78  | 29.14 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 26.39  | 116.98 | 37.24 |      | 65.0  |         |
|           |                                           | Z | 8.95   | 94.67  | 30.39 |      | 65.0  |         |
| 10235-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 14.77  | 99.20  | 29.62 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 134.52 | 39.09 |      | 65.0  |         |
|           |                                           | Z | 17.96  | 103.48 | 31.19 |      | 65.0  |         |
| 10236-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 14.45  | 97.22  | 28.35 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 131.52 | 37.55 |      | 65.0  |         |
|           |                                           | Z | 17.77  | 101.56 | 29.93 |      | 65.0  |         |
| 10237-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 8.29   | 92.81  | 29.61 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 28.81  | 119.14 | 37.97 |      | 65.0  |         |
|           |                                           | Z | 9.36   | 95.78  | 30.89 |      | 65.0  |         |
| 10238-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 14.71  | 99.12  | 29.60 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 134.52 | 39.09 |      | 65.0  |         |
|           |                                           | Z | 17.88  | 103.39 | 31.16 |      | 65.0  |         |

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|-----------|--------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10239-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 14.19  | 96.97  | 28.28 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 131.62 | 37.59 |      | 65.0 |         |
|           |                                            | Z | 17.42  | 101.27 | 29.85 |      | 65.0 |         |
| 10240-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 8.26   | 92.76  | 29.59 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 28.65  | 119.04 | 37.94 |      | 65.0 |         |
|           |                                            | Z | 9.32   | 95.73  | 30.87 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 7.59   | 80.37  | 25.35 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.04  | 86.74  | 28.12 |      | 65.0 |         |
|           |                                            | Z | 7.85   | 81.34  | 25.88 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.75   | 77.85  | 24.21 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.43   | 82.90  | 26.54 |      | 65.0 |         |
|           |                                            | Z | 7.30   | 79.75  | 25.14 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.48   | 74.42  | 23.60 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.39   | 77.98  | 25.46 |      | 65.0 |         |
|           |                                            | Z | 5.87   | 76.16  | 24.52 |      | 65.0 |         |
| 10244-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 5.71   | 76.00  | 18.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.34   | 81.60  | 21.07 |      | 65.0 |         |
|           |                                            | Z | 6.18   | 77.32  | 19.29 |      | 65.0 |         |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 5.52   | 75.19  | 18.30 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.93   | 80.50  | 20.60 |      | 65.0 |         |
|           |                                            | Z | 5.92   | 76.37  | 18.84 |      | 65.0 |         |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 5.55   | 79.41  | 20.24 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.48   | 85.64  | 22.77 |      | 65.0 |         |
|           |                                            | Z | 5.70   | 79.66  | 20.24 |      | 65.0 |         |
| 10247-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 4.73   | 73.67  | 18.61 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.88   | 76.83  | 20.12 |      | 65.0 |         |
|           |                                            | Z | 4.60   | 73.85  | 18.62 |      | 65.0 |         |
| 10248-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 4.69   | 72.99  | 18.29 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.79   | 76.03  | 19.77 |      | 65.0 |         |
|           |                                            | Z | 4.76   | 73.16  | 18.29 |      | 65.0 |         |
| 10249-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 6.83   | 83.08  | 22.65 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.11  | 89.16  | 24.96 |      | 65.0 |         |
|           |                                            | Z | 7.14   | 83.71  | 22.81 |      | 65.0 |         |
| 10250-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.54   | 75.91  | 21.31 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.67   | 78.61  | 22.56 |      | 65.0 |         |
|           |                                            | Z | 5.66   | 76.27  | 21.42 |      | 65.0 |         |
| 10251-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.27   | 73.65  | 19.94 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.28   | 76.41  | 21.21 |      | 65.0 |         |
|           |                                            | Z | 5.36   | 73.96  | 20.04 |      | 65.0 |         |
| 10252-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 6.69   | 81.76  | 23.20 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.02   | 86.54  | 25.02 |      | 65.0 |         |
|           |                                            | Z | 6.96   | 82.43  | 23.43 |      | 65.0 |         |
| 10253-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.33   | 72.65  | 19.87 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.21   | 75.13  | 21.03 |      | 65.0 |         |
|           |                                            | Z | 5.42   | 72.95  | 19.99 |      | 65.0 |         |
| 10254-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.67   | 73.57  | 20.59 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.57   | 75.98  | 21.69 |      | 65.0 |         |
|           |                                            | Z | 5.76   | 73.68  | 20.72 |      | 65.0 |         |



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|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.02 | 77.53 | 21.77 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.45 | 80.90 | 23.15 |      | 65.0 |         |
|           |                                             | Z | 6.18 | 78.00 | 21.96 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.22 | 71.25 | 15.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.28 | 76.68 | 18.08 |      | 65.0 |         |
|           |                                             | Z | 4.50 | 72.23 | 16.02 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 4.05 | 70.31 | 15.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.87 | 75.29 | 17.42 |      | 65.0 |         |
|           |                                             | Z | 4.28 | 71.12 | 15.42 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 3.88 | 73.49 | 16.91 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.91 | 79.26 | 19.55 |      | 65.0 |         |
|           |                                             | Z | 3.89 | 73.38 | 16.75 |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 5.06 | 74.57 | 19.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.21 | 77.60 | 21.01 |      | 65.0 |         |
|           |                                             | Z | 5.16 | 74.84 | 19.67 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.08 | 74.24 | 19.47 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.18 | 77.16 | 20.83 |      | 65.0 |         |
|           |                                             | Z | 5.17 | 74.49 | 19.52 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 6.31 | 81.37 | 22.47 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.82 | 86.60 | 24.51 |      | 65.0 |         |
|           |                                             | Z | 6.58 | 82.00 | 22.65 |      | 65.0 |         |
| 10262-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.53 | 75.85 | 21.26 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.66 | 78.76 | 22.52 |      | 65.0 |         |
|           |                                             | Z | 5.64 | 76.21 | 21.38 |      | 65.0 |         |
| 10263-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.26 | 73.62 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.27 | 76.38 | 21.20 |      | 65.0 |         |
|           |                                             | Z | 5.35 | 73.94 | 20.03 |      | 65.0 |         |
| 10264-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 6.61 | 81.54 | 23.09 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.92 | 86.30 | 24.91 |      | 65.0 |         |
|           |                                             | Z | 6.88 | 82.20 | 23.32 |      | 65.0 |         |
| 10265-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.44 | 73.20 | 20.14 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.39 | 75.80 | 21.33 |      | 65.0 |         |
|           |                                             | Z | 5.53 | 73.50 | 20.27 |      | 65.0 |         |
| 10266-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.80 | 74.17 | 20.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.76 | 76.67 | 22.04 |      | 65.0 |         |
|           |                                             | Z | 5.90 | 74.48 | 21.06 |      | 65.0 |         |
| 10267-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.37 | 78.34 | 21.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.94 | 81.79 | 23.25 |      | 65.0 |         |
|           |                                             | Z | 6.54 | 78.79 | 22.05 |      | 65.0 |         |
| 10268-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.05 | 73.02 | 20.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.91 | 75.24 | 21.46 |      | 65.0 |         |
|           |                                             | Z | 6.13 | 73.28 | 20.58 |      | 65.0 |         |
| 10269-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.03 | 72.59 | 20.31 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.85 | 74.73 | 21.29 |      | 65.0 |         |
|           |                                             | Z | 6.11 | 72.84 | 20.43 |      | 65.0 |         |
| 10270-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.16 | 75.30 | 20.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.23 | 77.79 | 21.80 |      | 65.0 |         |
|           |                                             | Z | 6.27 | 75.60 | 20.89 |      | 65.0 |         |



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|-----------|--------------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.48  | 65.89 | 14.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.57  | 66.26 | 15.08 |      | 150.0 |         |
|           |                                                                    | Z | 2.43  | 65.63 | 14.53 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.46  | 66.57 | 14.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.58  | 67.38 | 15.22 |      | 150.0 |         |
|           |                                                                    | Z | 1.40  | 65.98 | 14.11 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.89  | 60.99 | 6.60  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.04  | 61.80 | 7.27  |      | 50.0  |         |
|           |                                                                    | Z | 1.93  | 61.08 | 6.68  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 5.01  | 74.12 | 16.13 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 10.14 | 84.97 | 20.68 |      | 50.0  |         |
|           |                                                                    | Z | 5.05  | 74.09 | 16.12 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 5.19  | 74.51 | 16.36 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 10.43 | 85.32 | 20.88 |      | 50.0  |         |
|           |                                                                    | Z | 5.22  | 74.48 | 16.34 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.14  | 65.76 | 11.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.35  | 67.60 | 13.38 |      | 150.0 |         |
|           |                                                                    | Z | 1.03  | 64.58 | 11.03 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.66  | 63.26 | 10.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.78  | 64.84 | 11.89 |      | 150.0 |         |
|           |                                                                    | Z | 0.59  | 62.30 | 9.44  |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 0.77  | 65.89 | 12.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.96  | 68.30 | 13.99 |      | 150.0 |         |
|           |                                                                    | Z | 0.66  | 64.23 | 10.80 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 1.08  | 70.27 | 14.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.37  | 73.27 | 16.65 |      | 150.0 |         |
|           |                                                                    | Z | 0.87  | 67.38 | 12.83 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 12.10 | 90.80 | 25.88 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 14.51 | 95.81 | 28.29 |      | 50.0  |         |
|           |                                                                    | Z | 13.51 | 92.56 | 26.41 |      | 50.0  |         |
| 10297-AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.58  | 68.64 | 15.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.70  | 69.22 | 16.34 |      | 150.0 |         |
|           |                                                                    | Z | 2.50  | 68.17 | 15.65 |      | 150.0 |         |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.33  | 65.58 | 12.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.50  | 66.88 | 13.65 |      | 150.0 |         |
|           |                                                                    | Z | 1.23  | 64.69 | 11.86 |      | 150.0 |         |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 2.27  | 67.72 | 13.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.10  | 71.52 | 15.11 |      | 150.0 |         |
|           |                                                                    | Z | 2.26  | 67.85 | 13.23 |      | 150.0 |         |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 1.77  | 63.95 | 10.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.17  | 66.06 | 11.91 |      | 150.0 |         |
|           |                                                                    | Z | 1.74  | 63.91 | 10.54 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.74  | 65.53 | 17.46 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.92  | 66.12 | 17.84 |      | 50.0  |         |
|           |                                                                    | Z | 4.67  | 65.40 | 17.36 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.15  | 65.82 | 17.99 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.33  | 66.49 | 18.44 |      | 50.0  |         |
|           |                                                                    | Z | 5.17  | 65.97 | 18.01 |      | 50.0  |         |

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|           |                                                                     |   |       |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.90  | 65.45 | 17.81 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.08  | 66.14 | 18.28 |       | 50.0  |         |
|           |                                                                     | Z | 4.92  | 65.62 | 17.83 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.71  | 65.31 | 17.29 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.88  | 65.94 | 17.70 |       | 50.0  |         |
|           |                                                                     | Z | 4.72  | 65.44 | 17.29 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.32  | 67.25 | 19.33 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.49  | 67.99 | 19.97 |       | 35.0  |         |
|           |                                                                     | Z | 4.43  | 67.86 | 19.55 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.65  | 66.33 | 18.99 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.80  | 66.94 | 19.51 |       | 35.0  |         |
|           |                                                                     | Z | 4.71  | 66.75 | 19.14 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.54  | 66.47 | 18.94 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.70  | 67.11 | 19.48 |       | 35.0  |         |
|           |                                                                     | Z | 4.61  | 66.90 | 19.09 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.52  | 66.66 | 19.07 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.68  | 67.33 | 19.63 |       | 35.0  |         |
|           |                                                                     | Z | 4.59  | 67.13 | 19.24 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.70  | 66.54 | 19.13 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.86  | 67.20 | 19.68 |       | 35.0  |         |
|           |                                                                     | Z | 4.77  | 66.96 | 19.29 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.60  | 66.38 | 18.96 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.75  | 67.00 | 19.48 |       | 35.0  |         |
|           |                                                                     | Z | 4.66  | 66.81 | 19.12 |       | 35.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 2.92  | 67.94 | 15.67 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.06  | 68.53 | 16.01 |       | 150.0 |         |
|           |                                                                     | Z | 2.84  | 67.50 | 15.36 |       | 150.0 |         |
| 10313-AAA | IDEN 1:3                                                            | X | 3.59  | 74.52 | 16.76 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 7.81  | 84.35 | 20.54 |       | 70.0  |         |
|           |                                                                     | Z | 3.75  | 74.74 | 16.77 |       | 70.0  |         |
| 10314-AAA | IDEN 1:6                                                            | X | 6.18  | 85.62 | 23.85 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 11.31 | 96.43 | 27.87 |       | 30.0  |         |
|           |                                                                     | Z | 6.24  | 85.41 | 23.69 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.00  | 62.92 | 14.51 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.08  | 63.58 | 15.01 |       | 150.0 |         |
|           |                                                                     | Z | 0.98  | 62.64 | 14.20 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.51  | 66.40 | 16.17 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.59  | 66.62 | 16.28 |       | 150.0 |         |
|           |                                                                     | Z | 4.47  | 66.32 | 16.09 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.51  | 66.40 | 16.17 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.59  | 66.62 | 16.28 |       | 150.0 |         |
|           |                                                                     | Z | 4.47  | 66.32 | 16.09 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.61  | 66.69 | 16.12 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.69  | 66.90 | 16.22 |       | 150.0 |         |
|           |                                                                     | Z | 4.56  | 66.58 | 16.02 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.36  | 67.03 | 16.39 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.40  | 67.13 | 16.42 |       | 150.0 |         |
|           |                                                                     | Z | 5.33  | 66.97 | 16.33 |       | 150.0 |         |

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|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.57   | 67.19  | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.64   | 67.39  | 16.40 |      | 150.0 |         |
|           |                                                                                 | Z | 5.53   | 67.09  | 16.25 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 1.14   | 65.76  | 11.93 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.35   | 67.60  | 13.38 |      | 115.0 |         |
|           |                                                                                 | Z | 1.03   | 64.58  | 11.03 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 1.14   | 65.76  | 11.93 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.35   | 67.60  | 13.38 |      | 115.0 |         |
|           |                                                                                 | Z | 1.03   | 64.58  | 11.03 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SC32, SCH0, Full Rate                                            | X | 18.73  | 99.86  | 28.25 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 118.69 | 29.03 |      | 100.0 |         |
|           |                                                                                 | Z | 26.61  | 105.17 | 26.73 |      | 100.0 |         |
| 10410-AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 125.74 | 31.85 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 125.21 | 31.67 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 127.36 | 32.62 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 0.94   | 62.19  | 13.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.01   | 62.70  | 14.36 |      | 150.0 |         |
|           |                                                                                 | Z | 0.91   | 61.87  | 13.58 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.45   | 66.36  | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.52   | 66.55  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.41   | 66.26  | 15.97 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.45   | 66.36  | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.52   | 66.55  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.41   | 66.26  | 15.97 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.44   | 66.52  | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.51   | 66.71  | 16.17 |      | 150.0 |         |
|           |                                                                                 | Z | 4.40   | 66.41  | 15.98 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.46   | 66.47  | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.53   | 66.66  | 16.17 |      | 150.0 |         |
|           |                                                                                 | Z | 4.42   | 66.36  | 15.99 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.58   | 66.48  | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.65   | 66.66  | 16.19 |      | 150.0 |         |
|           |                                                                                 | Z | 4.54   | 66.37  | 16.01 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.74   | 66.78  | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.82   | 66.98  | 16.31 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 66.67  | 16.12 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.66   | 66.73  | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.74   | 66.93  | 16.28 |      | 150.0 |         |
|           |                                                                                 | Z | 4.62   | 66.62  | 16.09 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.28   | 67.10  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.34   | 67.25  | 16.47 |      | 150.0 |         |
|           |                                                                                 | Z | 5.24   | 66.99  | 16.34 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.31   | 67.19  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.35   | 67.28  | 16.48 |      | 150.0 |         |
|           |                                                                                 | Z | 5.27   | 67.10  | 16.39 |      | 150.0 |         |



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| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.31   | 67.11  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.36   | 67.25  | 16.47 |      | 150.0 |         |
|           |                                                                | Z | 5.27   | 67.02  | 16.35 |      | 150.0 |         |
| 10430-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.13   | 70.48  | 17.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.14   | 70.12  | 17.76 |      | 150.0 |         |
|           |                                                                | Z | 4.04   | 70.12  | 17.62 |      | 150.0 |         |
| 10431-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.11   | 66.86  | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.20   | 67.07  | 16.12 |      | 150.0 |         |
|           |                                                                | Z | 4.06   | 66.72  | 15.86 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.42   | 66.76  | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.50   | 66.96  | 16.22 |      | 150.0 |         |
|           |                                                                | Z | 4.37   | 66.64  | 16.00 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.67   | 66.76  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.75   | 66.96  | 16.30 |      | 150.0 |         |
|           |                                                                | Z | 4.63   | 66.65  | 16.11 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.21   | 71.23  | 17.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.20   | 70.85  | 17.67 |      | 150.0 |         |
|           |                                                                | Z | 4.08   | 70.76  | 17.43 |      | 150.0 |         |
| 10435-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 125.51 | 31.74 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 124.99 | 31.77 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 127.13 | 32.51 |      | 80.0  |         |
| 10447-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.37   | 66.69  | 15.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.48   | 67.00  | 15.38 |      | 150.0 |         |
|           |                                                                | Z | 3.30   | 66.46  | 14.90 |      | 150.0 |         |
| 10448-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 3.95   | 66.63  | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.04   | 66.85  | 15.98 |      | 150.0 |         |
|           |                                                                | Z | 3.90   | 66.49  | 15.71 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.24   | 66.58  | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.31   | 66.78  | 16.11 |      | 150.0 |         |
|           |                                                                | Z | 4.19   | 66.45  | 15.89 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.44   | 66.52  | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.51   | 66.72  | 16.15 |      | 150.0 |         |
|           |                                                                | Z | 4.40   | 66.40  | 15.95 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.23   | 66.72  | 14.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.36   | 67.12  | 14.96 |      | 150.0 |         |
|           |                                                                | Z | 3.16   | 66.43  | 14.35 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.17   | 67.68  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.21   | 67.80  | 16.63 |      | 150.0 |         |
|           |                                                                | Z | 6.14   | 67.60  | 16.55 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.73   | 65.01  | 15.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.79   | 65.20  | 15.86 |      | 150.0 |         |
|           |                                                                | Z | 3.69   | 64.91  | 15.66 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.82   | 70.31  | 17.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.87   | 70.19  | 17.09 |      | 150.0 |         |
|           |                                                                | Z | 3.70   | 69.82  | 16.64 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.02   | 68.38  | 18.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.01   | 68.01  | 17.87 |      | 150.0 |         |
|           |                                                                | Z | 4.90   | 68.02  | 17.80 |      | 150.0 |         |



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|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.77   | 66.07  | 14.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.87   | 67.17  | 15.47 |      | 150.0 |         |
|           |                                                                   | Z | 0.71   | 65.16  | 13.72 |      | 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 | 129.90 | 33.85 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 132.00 | 35.01 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 132.22 | 34.92 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.87   | 74.90  | 15.06 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.52 | 24.03 |      | 80.0  |         |
|           |                                                                   | Z | 38.61  | 99.17  | 22.00 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.47   | 64.49  | 10.53 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 18.61  | 88.22  | 18.26 |      | 80.0  |         |
|           |                                                                   | Z | 2.38   | 69.36  | 12.68 |      | 80.0  |         |
| 10464-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 126.98 | 32.32 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 129.46 | 33.65 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 129.44 | 33.45 |      | 80.0  |         |
| 10465-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.64   | 70.91  | 13.61 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.75 | 23.67 |      | 80.0  |         |
|           |                                                                   | Z | 9.59   | 84.57  | 18.17 |      | 80.0  |         |
| 10466-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.32   | 63.40  | 9.99  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 7.36   | 79.35  | 15.77 |      | 80.0  |         |
|           |                                                                   | Z | 1.85   | 66.87  | 11.66 |      | 80.0  |         |
| 10467-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 127.32 | 32.47 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 129.78 | 33.79 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 129.78 | 33.60 |      | 80.0  |         |
| 10468-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.89   | 71.87  | 13.98 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.00 | 23.78 |      | 80.0  |         |
|           |                                                                   | Z | 12.94  | 87.74  | 19.07 |      | 80.0  |         |
| 10469-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.32   | 63.43  | 10.00 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 7.57   | 79.64  | 15.85 |      | 80.0  |         |
|           |                                                                   | Z | 1.86   | 66.94  | 11.68 |      | 80.0  |         |
| 10470-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 127.35 | 32.48 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 129.83 | 33.80 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 129.83 | 33.61 |      | 80.0  |         |
| 10471-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.85   | 71.73  | 13.91 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.91 | 23.73 |      | 80.0  |         |
|           |                                                                   | Z | 12.63  | 87.45  | 18.98 |      | 80.0  |         |
| 10472-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.31   | 63.37  | 9.96  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 7.42   | 79.41  | 15.76 |      | 80.0  |         |
|           |                                                                   | Z | 1.85   | 66.84  | 11.63 |      | 80.0  |         |
| 10473-AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 127.31 | 32.46 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 129.79 | 33.78 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 129.79 | 33.59 |      | 80.0  |         |
| 10474-AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.82   | 71.64  | 13.88 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.92 | 23.73 |      | 80.0  |         |
|           |                                                                   | Z | 12.30  | 87.19  | 18.91 |      | 80.0  |         |
| 10475-AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.31   | 63.34  | 9.94  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 7.28   | 79.25  | 15.72 |      | 80.0  |         |
|           |                                                                   | Z | 1.83   | 66.79  | 11.61 |      | 80.0  |         |

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| 10477-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 2.62   | 70.87  | 13.57 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 107.68 | 23.62 |      | 80.0 |         |
|           |                                                                     | Z | 9.80   | 84.77  | 18.21 |      | 80.0 |         |
| 10478-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 1.30   | 63.28  | 9.91  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.06   | 78.93  | 15.61 |      | 80.0 |         |
|           |                                                                     | Z | 1.82   | 66.68  | 11.55 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 9.70   | 91.06  | 24.81 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 17.04  | 100.06 | 27.83 |      | 80.0 |         |
|           |                                                                     | Z | 16.10  | 99.35  | 27.41 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 8.70   | 83.60  | 20.39 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 25.58  | 96.26  | 24.94 |      | 80.0 |         |
|           |                                                                     | Z | 14.49  | 90.66  | 22.64 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.35   | 78.71  | 18.36 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 16.87  | 91.50  | 22.61 |      | 80.0 |         |
|           |                                                                     | Z | 9.60   | 84.24  | 20.25 |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.65   | 70.99  | 16.26 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.76   | 75.55  | 18.44 |      | 80.0 |         |
|           |                                                                     | Z | 2.58   | 70.58  | 15.95 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.26   | 73.54  | 16.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.80   | 79.82  | 19.49 |      | 80.0 |         |
|           |                                                                     | Z | 5.19   | 76.27  | 17.90 |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.91   | 72.14  | 16.30 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.99   | 77.84  | 18.79 |      | 80.0 |         |
|           |                                                                     | Z | 4.59   | 74.40  | 17.21 |      | 80.0 |         |
| 10485-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.05   | 72.90  | 18.14 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.95   | 76.31  | 19.73 |      | 80.0 |         |
|           |                                                                     | Z | 3.06   | 72.88  | 18.03 |      | 80.0 |         |
| 10486-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.92   | 68.63  | 15.74 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.52   | 70.98  | 17.01 |      | 80.0 |         |
|           |                                                                     | Z | 2.89   | 68.46  | 15.56 |      | 80.0 |         |
| 10487-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.91   | 68.22  | 15.54 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.49   | 70.47  | 16.77 |      | 80.0 |         |
|           |                                                                     | Z | 2.88   | 68.04  | 15.36 |      | 80.0 |         |
| 10488-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.32   | 71.98  | 18.56 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.99   | 74.45  | 19.69 |      | 80.0 |         |
|           |                                                                     | Z | 3.34   | 72.06  | 18.55 |      | 80.0 |         |
| 10489-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.25   | 68.48  | 17.05 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.66   | 69.98  | 17.82 |      | 80.0 |         |
|           |                                                                     | Z | 3.25   | 68.52  | 17.02 |      | 80.0 |         |
| 10490-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.34   | 68.33  | 17.00 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.74   | 69.75  | 17.74 |      | 80.0 |         |
|           |                                                                     | Z | 3.34   | 68.37  | 16.96 |      | 80.0 |         |
| 10491-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.55   | 70.45  | 18.07 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.09   | 72.36  | 18.94 |      | 80.0 |         |
|           |                                                                     | Z | 3.56   | 70.52  | 18.06 |      | 80.0 |         |
| 10492-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.60   | 67.75  | 17.07 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.96   | 69.00  | 17.69 |      | 80.0 |         |
|           |                                                                     | Z | 3.61   | 67.80  | 17.06 |      | 80.0 |         |

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|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.67 | 67.64 | 17.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.02 | 68.84 | 17.63 |      | 80.0 |         |
|           |                                                                      | Z | 3.67 | 67.68 | 17.02 |      | 80.0 |         |
| 10494-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.85 | 71.95 | 18.54 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.51 | 74.15 | 19.51 |      | 80.0 |         |
|           |                                                                      | Z | 3.86 | 71.99 | 18.52 |      | 80.0 |         |
| 10495-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.63 | 68.11 | 17.26 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.00 | 69.41 | 17.90 |      | 80.0 |         |
|           |                                                                      | Z | 3.63 | 68.15 | 17.26 |      | 80.0 |         |
| 10496-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.71 | 67.85 | 17.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.07 | 69.08 | 17.79 |      | 80.0 |         |
|           |                                                                      | Z | 3.71 | 67.90 | 17.18 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.75 | 65.66 | 12.81 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.70 | 70.76 | 15.51 |      | 80.0 |         |
|           |                                                                      | Z | 1.67 | 64.98 | 12.32 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.38 | 60.53 | 9.12  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.84 | 63.33 | 11.05 |      | 80.0 |         |
|           |                                                                      | Z | 1.32 | 60.12 | 8.74  |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.34 | 60.07 | 8.72  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.76 | 62.61 | 10.54 |      | 80.0 |         |
|           |                                                                      | Z | 1.33 | 60.00 | 8.53  |      | 80.0 |         |
| 10500-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.11 | 72.23 | 18.21 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.87 | 75.11 | 19.56 |      | 80.0 |         |
|           |                                                                      | Z | 3.13 | 72.29 | 18.15 |      | 80.0 |         |
| 10501-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.08 | 68.70 | 16.31 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.59 | 70.61 | 17.33 |      | 80.0 |         |
|           |                                                                      | Z | 3.07 | 68.64 | 16.19 |      | 80.0 |         |
| 10502-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.14 | 68.55 | 16.17 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.64 | 70.41 | 17.18 |      | 80.0 |         |
|           |                                                                      | Z | 3.12 | 68.48 | 16.06 |      | 80.0 |         |
| 10503-AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.27 | 71.77 | 18.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.94 | 74.25 | 19.60 |      | 80.0 |         |
|           |                                                                      | Z | 3.29 | 71.86 | 18.45 |      | 80.0 |         |
| 10504-AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.23 | 68.38 | 17.00 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.64 | 69.90 | 17.77 |      | 80.0 |         |
|           |                                                                      | Z | 3.24 | 68.42 | 16.96 |      | 80.0 |         |
| 10505-AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.32 | 68.23 | 16.94 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.72 | 69.67 | 17.68 |      | 80.0 |         |
|           |                                                                      | Z | 3.33 | 68.27 | 16.91 |      | 80.0 |         |
| 10506-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.82 | 71.80 | 18.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.48 | 74.01 | 19.44 |      | 80.0 |         |
|           |                                                                      | Z | 3.83 | 71.85 | 18.45 |      | 80.0 |         |
| 10507-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.61 | 68.04 | 17.23 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.99 | 69.36 | 17.87 |      | 80.0 |         |
|           |                                                                      | Z | 3.62 | 68.09 | 17.22 |      | 80.0 |         |



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|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.70 | 67.79 | 17.14 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.06 | 69.02 | 17.75 |      | 80.0  |         |
|           |                                                                     | Z | 3.70 | 67.83 | 17.14 |      | 80.0  |         |
| 10509-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.16 | 70.56 | 17.95 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.71 | 72.27 | 18.72 |      | 80.0  |         |
|           |                                                                     | Z | 4.16 | 70.57 | 17.93 |      | 80.0  |         |
| 10510-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.10 | 67.80 | 17.22 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 68.96 | 17.77 |      | 80.0  |         |
|           |                                                                     | Z | 4.10 | 67.83 | 17.22 |      | 80.0  |         |
| 10511-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.15 | 67.56 | 17.16 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.50 | 68.67 | 17.69 |      | 80.0  |         |
|           |                                                                     | Z | 4.16 | 67.60 | 17.16 |      | 80.0  |         |
| 10512-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.33 | 72.08 | 18.43 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.03 | 74.19 | 19.34 |      | 80.0  |         |
|           |                                                                     | Z | 4.34 | 72.08 | 18.40 |      | 80.0  |         |
| 10513-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.98 | 68.03 | 17.32 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.35 | 68.28 | 17.91 |      | 80.0  |         |
|           |                                                                     | Z | 3.99 | 68.06 | 17.32 |      | 80.0  |         |
| 10514-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.01 | 67.63 | 17.20 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.36 | 68.80 | 17.75 |      | 80.0  |         |
|           |                                                                     | Z | 4.01 | 67.66 | 17.20 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.90 | 62.32 | 13.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.97 | 62.85 | 14.40 |      | 150.0 |         |
|           |                                                                     | Z | 0.87 | 61.98 | 13.57 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.47 | 67.11 | 14.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.56 | 68.58 | 16.14 |      | 150.0 |         |
|           |                                                                     | Z | 0.42 | 65.78 | 13.44 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.73 | 63.74 | 14.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.81 | 64.51 | 14.86 |      | 150.0 |         |
|           |                                                                     | Z | 0.70 | 63.20 | 13.62 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.44 | 66.44 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.52 | 66.63 | 16.13 |      | 150.0 |         |
|           |                                                                     | Z | 4.40 | 66.33 | 15.94 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.62 | 66.67 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.70 | 66.86 | 16.25 |      | 150.0 |         |
|           |                                                                     | Z | 4.58 | 66.56 | 16.06 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.47 | 66.61 | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55 | 66.81 | 16.17 |      | 150.0 |         |
|           |                                                                     | Z | 4.43 | 66.49 | 15.97 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.40 | 66.59 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.48 | 66.80 | 16.15 |      | 150.0 |         |
|           |                                                                     | Z | 4.36 | 66.47 | 15.94 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.47 | 66.71 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.54 | 66.90 | 16.24 |      | 150.0 |         |
|           |                                                                     | Z | 4.42 | 66.60 | 16.05 |      | 150.0 |         |

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|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.35 | 66.57 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.43 | 66.77 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 4.31 | 66.45 | 15.89 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.41 | 66.62 | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.49 | 66.82 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 4.36 | 66.51 | 16.01 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.40 | 65.67 | 15.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.48 | 65.87 | 15.80 |      | 150.0 |         |
|           |                                                            | Z | 4.36 | 65.55 | 15.61 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.56 | 66.02 | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.64 | 66.23 | 15.94 |      | 150.0 |         |
|           |                                                            | Z | 4.51 | 65.90 | 15.75 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.48 | 65.97 | 15.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.18 | 15.88 |      | 150.0 |         |
|           |                                                            | Z | 4.44 | 65.85 | 15.68 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.50 | 65.99 | 15.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 66.20 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.45 | 65.86 | 15.71 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.50 | 65.99 | 15.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 66.20 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.45 | 65.86 | 15.71 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.48 | 66.07 | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.29 | 15.92 |      | 150.0 |         |
|           |                                                            | Z | 4.43 | 65.94 | 15.71 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.35 | 65.92 | 15.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.43 | 66.14 | 15.85 |      | 150.0 |         |
|           |                                                            | Z | 4.30 | 65.78 | 15.63 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.51 | 66.04 | 15.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.59 | 66.25 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.46 | 65.92 | 15.70 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.05 | 66.12 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.11 | 66.31 | 15.98 |      | 150.0 |         |
|           |                                                            | Z | 5.01 | 66.01 | 15.83 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.12 | 66.32 | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.18 | 66.49 | 16.07 |      | 150.0 |         |
|           |                                                            | Z | 5.08 | 66.22 | 15.92 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 4.99 | 66.25 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.05 | 66.44 | 16.02 |      | 150.0 |         |
|           |                                                            | Z | 4.95 | 66.14 | 15.86 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.04 | 66.22 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.11 | 66.41 | 16.01 |      | 150.0 |         |
|           |                                                            | Z | 5.00 | 66.11 | 15.85 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.13 | 66.24 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.20 | 66.43 | 16.06 |      | 150.0 |         |
|           |                                                            | Z | 5.09 | 66.13 | 15.90 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.07 | 66.28 | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.13 | 66.45 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 5.03 | 66.16 | 15.93 |      | 150.0 |         |

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|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.04 | 66.12 | 15.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.10 | 66.31 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.00 | 66.01 | 15.85 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.19 | 66.21 | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.26 | 66.39 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.15 | 66.10 | 15.91 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.27 | 66.24 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.33 | 66.42 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.22 | 66.14 | 15.96 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.37 | 66.24 | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.43 | 66.44 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 5.33 | 66.14 | 15.84 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.57 | 66.70 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 66.84 | 16.14 |      | 150.0 |         |
|           |                                                    | Z | 5.53 | 66.60 | 16.03 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.43 | 66.43 | 15.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.49 | 66.63 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.39 | 66.32 | 15.90 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.50 | 66.49 | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.67 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.46 | 66.39 | 15.92 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.77 | 67.48 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.79 | 67.55 | 16.48 |      | 150.0 |         |
|           |                                                    | Z | 5.72 | 67.37 | 16.39 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.47 | 66.50 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.66 | 16.07 |      | 150.0 |         |
|           |                                                    | Z | 5.43 | 66.41 | 15.95 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.46 | 66.50 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.70 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.42 | 66.39 | 15.90 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.38 | 66.30 | 15.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.44 | 66.50 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.34 | 66.19 | 15.81 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.46 | 66.33 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.54 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.42 | 66.22 | 15.86 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.79 | 66.62 | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.84 | 66.80 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.75 | 66.52 | 15.95 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.92 | 66.94 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.96 | 67.09 | 16.20 |      | 150.0 |         |
|           |                                                    | Z | 5.88 | 66.84 | 16.08 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.94 | 66.98 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.98 | 67.14 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 5.90 | 66.88 | 16.10 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.89 | 66.86 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.95 | 67.04 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.86 | 66.75 | 16.06 |      | 150.0 |         |



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|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.94 | 67.02 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.99 | 67.20 | 16.29 |      | 150.0 |         |
|           |                                                                 | Z | 5.90 | 66.92 | 16.15 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 5.93 | 66.86 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.99 | 67.06 | 16.25 |      | 150.0 |         |
|           |                                                                 | Z | 5.89 | 66.76 | 16.11 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.86 | 66.86 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91 | 67.03 | 16.28 |      | 150.0 |         |
|           |                                                                 | Z | 5.83 | 66.76 | 16.15 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 5.97 | 67.20 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.03 | 67.39 | 16.46 |      | 150.0 |         |
|           |                                                                 | Z | 5.93 | 67.08 | 16.31 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.12 | 67.28 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.21 | 67.56 | 16.50 |      | 150.0 |         |
|           |                                                                 | Z | 6.06 | 67.12 | 16.29 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.77 | 66.53 | 16.22 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.85 | 66.74 | 16.33 |      | 150.0 |         |
|           |                                                                 | Z | 4.73 | 66.44 | 16.14 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 4.99 | 66.98 | 16.54 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.07 | 67.16 | 16.63 |      | 150.0 |         |
|           |                                                                 | Z | 4.95 | 66.88 | 16.46 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.83 | 66.81 | 16.35 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.91 | 67.02 | 16.45 |      | 150.0 |         |
|           |                                                                 | Z | 4.79 | 66.71 | 16.26 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.85 | 67.20 | 16.71 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.93 | 67.36 | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 4.81 | 67.08 | 16.61 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.74 | 66.58 | 16.12 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 66.83 | 16.26 |      | 150.0 |         |
|           |                                                                 | Z | 4.70 | 66.51 | 16.04 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.82 | 67.31 | 16.78 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 67.45 | 16.83 |      | 150.0 |         |
|           |                                                                 | Z | 4.77 | 67.20 | 16.69 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.85 | 67.15 | 16.71 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92 | 67.31 | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 4.80 | 67.05 | 16.62 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.07 | 63.46 | 14.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.18 | 64.36 | 15.50 |      | 130.0 |         |
|           |                                                                 | Z | 1.05 | 63.26 | 14.63 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.08 | 63.96 | 15.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.19 | 64.89 | 15.83 |      | 130.0 |         |
|           |                                                                 | Z | 1.06 | 63.74 | 14.94 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 1.25 | 78.23 | 19.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.96 | 84.50 | 22.78 |      | 130.0 |         |
|           |                                                                 | Z | 1.13 | 76.27 | 18.64 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.12 | 68.84 | 17.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.27 | 70.06 | 18.45 |      | 130.0 |         |
|           |                                                                 | Z | 1.08 | 68.29 | 17.23 |      | 130.0 |         |

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|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.56 | 66.33 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 66.55 | 16.39 |      | 130.0 |         |
|           |                                                                 | Z | 4.52 | 66.26 | 16.21 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.58 | 66.49 | 16.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.66 | 66.70 | 16.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.55 | 66.42 | 16.27 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.78 | 66.79 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86 | 66.98 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 66.70 | 16.44 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.67 | 66.93 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 67.11 | 16.70 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.84 | 16.53 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.44 | 66.18 | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.53 | 66.47 | 16.06 |      | 130.0 |         |
|           |                                                                 | Z | 4.40 | 66.11 | 15.83 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.49 | 66.25 | 15.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 66.53 | 16.10 |      | 130.0 |         |
|           |                                                                 | Z | 4.45 | 66.18 | 15.87 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.57 | 66.95 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 67.15 | 16.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.53 | 66.86 | 16.47 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.38 | 65.95 | 15.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.26 | 15.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.34 | 65.89 | 15.62 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.56 | 66.33 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 66.55 | 16.39 |      | 130.0 |         |
|           |                                                                 | Z | 4.52 | 66.26 | 16.21 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.58 | 66.49 | 16.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.66 | 66.70 | 16.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.55 | 66.42 | 16.27 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.78 | 66.79 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86 | 66.98 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 66.70 | 16.44 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.67 | 66.93 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 67.11 | 16.70 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.84 | 16.53 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.44 | 66.18 | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.53 | 66.47 | 16.06 |      | 130.0 |         |
|           |                                                                 | Z | 4.40 | 66.11 | 15.83 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.49 | 66.25 | 15.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 66.53 | 16.10 |      | 130.0 |         |
|           |                                                                 | Z | 4.45 | 66.18 | 15.87 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.57 | 66.95 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 67.15 | 16.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.53 | 66.86 | 16.47 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.38 | 65.95 | 15.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.26 | 15.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.34 | 65.89 | 15.62 |      | 130.0 |         |

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|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.71 | 66.40 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.79 | 66.60 | 16.49 |      | 130.0 |         |
|           |                                                       | Z | 4.68 | 66.33 | 16.32 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.86 | 66.73 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.94 | 66.93 | 16.62 |      | 130.0 |         |
|           |                                                       | Z | 4.82 | 66.66 | 16.45 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.78 | 66.63 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.86 | 66.85 | 16.50 |      | 130.0 |         |
|           |                                                       | Z | 4.74 | 66.55 | 16.32 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.83 | 66.80 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.91 | 67.00 | 16.65 |      | 130.0 |         |
|           |                                                       | Z | 4.80 | 66.72 | 16.48 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.80 | 66.75 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.88 | 66.96 | 16.55 |      | 130.0 |         |
|           |                                                       | Z | 4.76 | 66.67 | 16.38 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.73 | 66.74 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.82 | 66.96 | 16.56 |      | 130.0 |         |
|           |                                                       | Z | 4.70 | 66.66 | 16.38 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.68 | 66.63 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.77 | 66.87 | 16.44 |      | 130.0 |         |
|           |                                                       | Z | 4.65 | 66.55 | 16.25 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.66 | 66.85 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.74 | 67.06 | 16.68 |      | 130.0 |         |
|           |                                                       | Z | 4.63 | 66.76 | 16.50 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.40 | 66.99 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.46 | 67.17 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 5.37 | 66.92 | 16.59 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.56 | 67.50 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.59 | 67.56 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.52 | 67.44 | 16.82 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.42 | 67.18 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.48 | 67.31 | 16.78 |      | 130.0 |         |
|           |                                                       | Z | 5.39 | 67.11 | 16.68 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.54 | 67.27 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.37 | 16.73 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.23 | 16.66 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.60 | 67.53 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.65 | 67.64 | 16.99 |      | 130.0 |         |
|           |                                                       | Z | 5.58 | 67.49 | 16.92 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.43 | 67.06 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.48 | 67.16 | 16.74 |      | 130.0 |         |
|           |                                                       | Z | 5.41 | 67.03 | 16.68 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.54 | 67.37 | 16.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.47 | 16.90 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.32 | 16.82 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.25 | 66.58 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.33 | 66.83 | 16.44 |      | 130.0 |         |
|           |                                                       | Z | 5.22 | 66.51 | 16.27 |      | 130.0 |         |

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|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.55 | 65.71 | 16.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.63 | 65.91 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 4.51 | 65.62 | 15.93 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.72 | 66.10 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.81 | 66.31 | 16.27 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.01 | 16.10 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.61 | 65.93 | 16.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.70 | 66.17 | 16.12 |      | 130.0 |         |
|           |                                                   | Z | 4.58 | 65.85 | 15.92 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.66 | 66.10 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.75 | 66.31 | 16.27 |      | 130.0 |         |
|           |                                                   | Z | 4.63 | 66.01 | 16.09 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.58 | 65.90 | 16.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.66 | 66.13 | 16.12 |      | 130.0 |         |
|           |                                                   | Z | 4.54 | 65.81 | 15.93 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.58 | 66.05 | 16.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.67 | 66.29 | 16.18 |      | 130.0 |         |
|           |                                                   | Z | 4.55 | 65.96 | 15.98 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.59 | 65.92 | 15.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.68 | 66.17 | 16.06 |      | 130.0 |         |
|           |                                                   | Z | 4.55 | 65.83 | 15.85 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.53 | 66.10 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.62 | 66.32 | 16.26 |      | 130.0 |         |
|           |                                                   | Z | 4.49 | 66.00 | 16.07 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.58 | 65.73 | 15.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.67 | 66.00 | 15.93 |      | 130.0 |         |
|           |                                                   | Z | 4.54 | 65.66 | 15.71 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.21 | 66.20 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.28 | 66.39 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 5.18 | 66.12 | 16.17 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.29 | 66.42 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.34 | 66.57 | 16.38 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.35 | 16.26 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.17 | 66.40 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.23 | 66.57 | 16.38 |      | 130.0 |         |
|           |                                                   | Z | 5.13 | 66.32 | 16.26 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.18 | 66.20 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.25 | 66.39 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 5.15 | 66.12 | 16.09 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.27 | 66.24 | 16.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.34 | 66.43 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 5.24 | 66.17 | 16.17 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.27 | 66.37 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.33 | 66.53 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 5.24 | 66.29 | 16.35 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.29 | 66.54 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.35 | 66.70 | 16.54 |      | 130.0 |         |
|           |                                                   | Z | 5.25 | 66.46 | 16.43 |      | 130.0 |         |

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|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.16 | 66.06 | 16.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.23 | 66.26 | 16.20 |      | 130.0 |         |
|           |                                                    | Z | 5.13 | 65.98 | 16.06 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.35 | 66.27 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.42 | 66.45 | 16.36 |      | 130.0 |         |
|           |                                                    | Z | 5.32 | 66.19 | 16.23 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.70 | 67.19 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.76 | 67.36 | 16.87 |      | 130.0 |         |
|           |                                                    | Z | 5.65 | 67.07 | 16.73 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.52 | 66.27 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.57 | 66.46 | 16.27 |      | 130.0 |         |
|           |                                                    | Z | 5.49 | 66.19 | 16.14 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.77 | 66.91 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.81 | 67.01 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 5.75 | 66.84 | 16.43 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.54 | 66.35 | 16.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.61 | 66.56 | 16.22 |      | 130.0 |         |
|           |                                                    | Z | 5.51 | 66.27 | 16.08 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.62 | 66.41 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.68 | 66.60 | 16.24 |      | 130.0 |         |
|           |                                                    | Z | 5.59 | 66.34 | 16.11 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.09 | 68.03 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.09 | 68.04 | 16.96 |      | 130.0 |         |
|           |                                                    | Z | 6.06 | 67.95 | 16.91 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.94 | 67.68 | 16.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.99 | 67.81 | 17.02 |      | 130.0 |         |
|           |                                                    | Z | 5.90 | 67.57 | 16.91 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.74 | 66.96 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.77 | 67.05 | 16.65 |      | 130.0 |         |
|           |                                                    | Z | 5.71 | 66.89 | 16.60 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.60 | 66.48 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.67 | 66.71 | 16.32 |      | 130.0 |         |
|           |                                                    | Z | 5.56 | 66.40 | 16.18 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.58 | 66.52 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.65 | 66.72 | 16.38 |      | 130.0 |         |
|           |                                                    | Z | 5.55 | 66.43 | 16.25 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.47 | 65.85 | 15.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.54 | 66.13 | 15.85 |      | 130.0 |         |
|           |                                                    | Z | 5.43 | 65.78 | 15.66 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.94 | 66.65 | 16.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.99 | 66.83 | 16.36 |      | 130.0 |         |
|           |                                                    | Z | 5.91 | 66.57 | 16.24 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.11 | 67.07 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.14 | 67.20 | 16.53 |      | 130.0 |         |
|           |                                                    | Z | 6.08 | 67.00 | 16.44 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.10 | 67.03 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.14 | 67.18 | 16.50 |      | 130.0 |         |
|           |                                                    | Z | 6.07 | 66.96 | 16.40 |      | 130.0 |         |

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|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.07   | 66.94  | 16.45 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.12   | 67.13  | 16.51 |       | 130.0 |         |
|           |                                                        | Z | 6.04   | 66.86  | 16.39 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.07   | 66.95  | 16.40 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.13   | 67.15  | 16.48 |       | 130.0 |         |
|           |                                                        | Z | 6.04   | 66.88  | 16.34 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.13   | 66.91  | 16.40 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.17   | 67.07  | 16.45 |       | 130.0 |         |
|           |                                                        | Z | 6.11   | 66.86  | 16.36 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.16   | 67.11  | 16.66 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.21   | 67.28  | 16.71 |       | 130.0 |         |
|           |                                                        | Z | 6.12   | 67.04  | 16.61 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.00   | 66.83  | 16.42 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.05   | 67.00  | 16.48 |       | 130.0 |         |
|           |                                                        | Z | 5.98   | 66.76  | 16.37 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.14   | 67.25  | 16.65 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.20   | 67.47  | 16.74 |       | 130.0 |         |
|           |                                                        | Z | 6.10   | 67.16  | 16.59 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.37   | 67.57  | 16.77 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.47   | 67.90  | 16.92 |       | 130.0 |         |
|           |                                                        | Z | 6.31   | 67.40  | 16.68 |       | 130.0 |         |
| 10646-AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 15.25  | 107.38 | 37.28 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 82.59  | 150.95 | 50.26 |       | 60.0  |         |
|           |                                                        | Z | 18.10  | 112.25 | 39.14 |       | 60.0  |         |
| 10647-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 13.17  | 104.57 | 36.53 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 57.35  | 142.83 | 48.41 |       | 60.0  |         |
|           |                                                        | Z | 15.41  | 109.07 | 38.31 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.56   | 61.68  | 8.92  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.66   | 62.85  | 10.29 |       | 150.0 |         |
|           |                                                        | Z | 0.51   | 60.97  | 8.15  |       | 150.0 |         |
| 10652-AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.43   | 66.30  | 16.29 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.69   | 67.19  | 16.78 |       | 80.0  |         |
|           |                                                        | Z | 3.42   | 66.28  | 16.22 |       | 80.0  |         |
| 10653-AAD | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 3.97   | 65.72  | 16.50 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.20   | 66.48  | 16.89 |       | 80.0  |         |
|           |                                                        | Z | 3.96   | 65.72  | 16.47 |       | 80.0  |         |
| 10654-AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 3.96   | 65.37  | 16.51 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.17   | 66.11  | 16.89 |       | 80.0  |         |
|           |                                                        | Z | 3.96   | 65.37  | 16.48 |       | 80.0  |         |
| 10655-AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.02   | 65.35  | 16.55 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.24   | 66.10  | 16.93 |       | 80.0  |         |
|           |                                                        | Z | 4.02   | 65.35  | 16.53 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 100.00 | 109.96 | 25.46 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 113.08 | 26.90 |       | 50.0  |         |
|           |                                                        | Z | 100.00 | 110.56 | 25.80 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 108.07 | 23.54 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 111.97 | 25.57 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 108.43 | 23.77 |       | 60.0  |         |



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|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 106.10 | 21.40 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 113.15 | 24.95 |      | 80.0  |         |
|           |                             | Z | 100.00 | 105.59 | 21.24 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 101.77 | 18.47 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 116.26 | 25.11 |      | 100.0 |         |
|           |                             | Z | 100.00 | 99.43  | 17.54 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 0.18   | 60.00  | 3.99  | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 121.06 | 25.41 |      | 120.0 |         |
|           |                             | Z | 0.19   | 60.00  | 3.60  |      | 120.0 |         |
| 10670-AAA | Bluetooth Low Energy        | X | 100.00 | 109.06 | 21.78 | 2.19 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 118.52 | 26.46 |      | 100.0 |         |
|           |                             | Z | 100.00 | 106.33 | 20.69 |      | 100.0 |         |

<sup>6</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **HCT (Dymstec)**

Certificate No: **ES3-3076\_Jul18/2**

**CALIBRATION CERTIFICATE(Replacement of No: ES3-3076\_Jul18)**

|                          |                                                                                                             |  |  |
|--------------------------|-------------------------------------------------------------------------------------------------------------|--|--|
| Object                   | ES3DV3 - SN:3076                                                                                            |  |  |
| Calibration procedure(s) | QA CAL-01.v9, QA CAL-12.v9, QA CAL-23.v5, QA CAL-25.v6<br>Calibration procedure for dosimetric field probes |  |  |
| Calibration date:        | July 26, 2018                                                                                               |  |  |

재판장: *[Signature]* *[Signature]*  
 4위/명: SW 17543 53 17543  
 일: 2018 108-23 298 108-23

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

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

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-18 (No. 217-02673)         | Apr-19                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| 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-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-17) | In house check: Oct-18 |

|                |                 |                       |                    |
|----------------|-----------------|-----------------------|--------------------|
| Calibrated by: | Name            | Function              | Signature          |
|                | Claudio Leubler | Laboratory Technician | <i>[Signature]</i> |
| Approved by:   | Name            | Function              | Signature          |
|                | Katja Pokovic   | Technical Manager     | <i>[Signature]</i> |

Issued: August 11, 2018

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Accreditation No.: **SCS 0108**

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

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

- 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  $\theta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(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).



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# Probe ES3DV3

## SN:3076

Manufactured: June 29, 2005  
Calibrated: July 26, 2018

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

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## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3076

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 1.23     | 1.25     | 1.17     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 105.1    | 103.9    | 105.2    |               |

### 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>C</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 229.6    | $\pm 3.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 211.1    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 212.3    |                           |

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 | 77.68    | 554.8    | 35.26                       | 43.42                               | 4.074                               | 5.10     | 0.096                 | 0.829                 | 1.014 |
| Y | 65.81    | 478.9    | 36.19                       | 29.79                               | 3.991                               | 5.10     | 0.000                 | 0.773                 | 1.013 |
| Z | 67.45    | 484.4    | 35.40                       | 34.11                               | 3.613                               | 5.10     | 0.175                 | 0.773                 | 1.012 |

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

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## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3076

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>c</sup> | Relative Permittivity <sup>e</sup> | Conductivity (S/m) <sup>f</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>g</sup> | Depth (mm) <sup>h</sup> | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 6                    | 55.5                               | 0.75                            | 5.48    | 5.48    | 5.48    | 0.10               | 1.20                    | ± 13.3 %  |
| 13                   | 55.5                               | 0.75                            | 5.74    | 5.74    | 5.74    | 0.10               | 1.20                    | ± 13.3 %  |
| 750                  | 41.9                               | 0.89                            | 6.61    | 6.61    | 6.61    | 0.80               | 1.21                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 6.33    | 6.33    | 6.33    | 0.65               | 1.34                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 6.27    | 6.27    | 6.27    | 0.42               | 1.64                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 5.54    | 5.54    | 5.54    | 0.39               | 1.46                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 5.33    | 5.33    | 5.33    | 0.55               | 1.37                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 5.14    | 5.14    | 5.14    | 0.61               | 1.34                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 4.72    | 4.72    | 4.72    | 0.79               | 1.30                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 4.57    | 4.57    | 4.57    | 0.80               | 1.24                    | ± 12.0 %  |

<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>e</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.



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## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3076

### 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 (mm) <sup>g</sup> | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 6.16    | 6.16    | 6.16    | 0.64               | 1.29                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 6.03    | 6.03    | 6.03    | 0.73               | 1.24                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 4.98    | 4.98    | 4.98    | 0.63               | 1.36                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 4.76    | 4.76    | 4.76    | 0.53               | 1.52                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 4.45    | 4.45    | 4.45    | 0.77               | 1.25                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 4.32    | 4.32    | 4.32    | 0.80               | 1.25                    | ± 12.0 %  |

<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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.

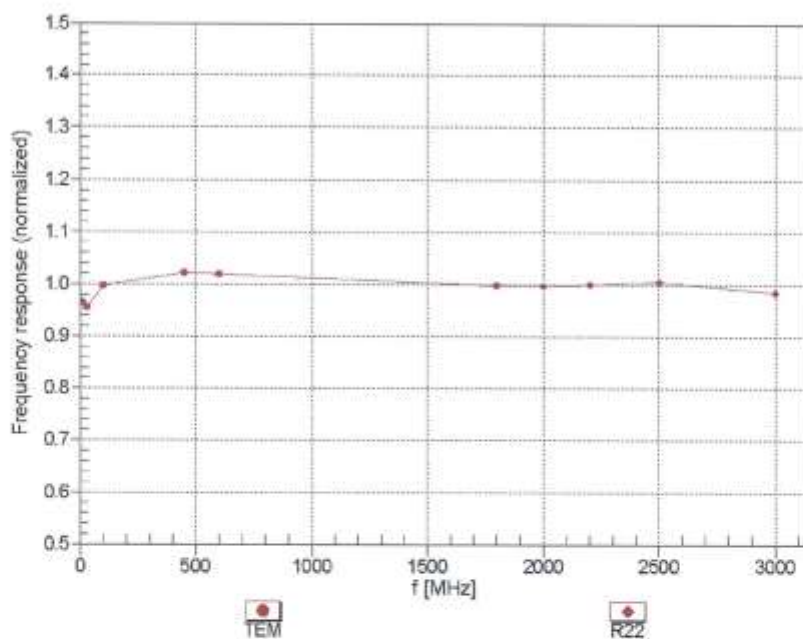
<sup>f</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted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

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

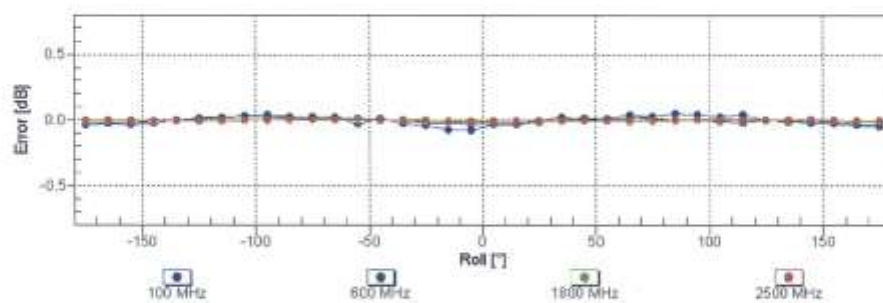
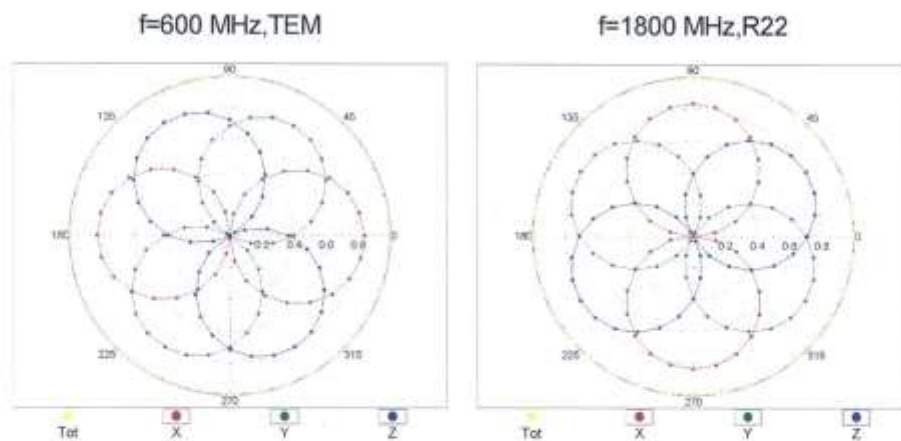


Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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



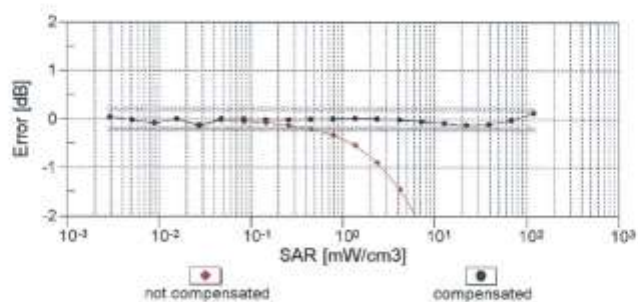
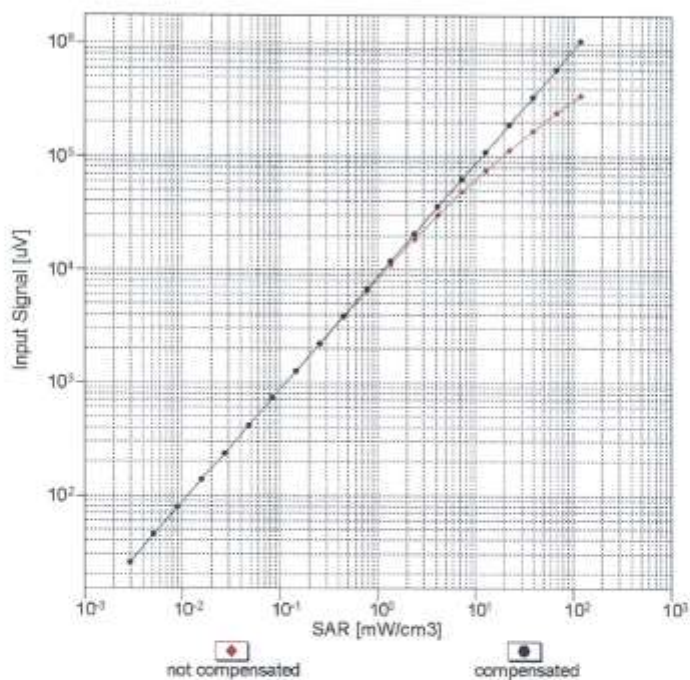
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )



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### Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)

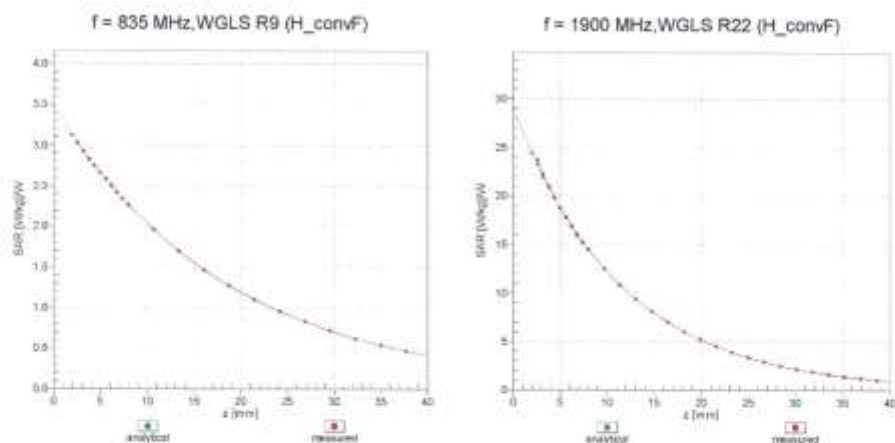


Uncertainty of Linearity Assessment:  $\pm 0.6\%$  (k=2)

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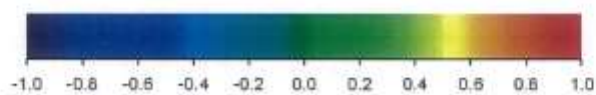
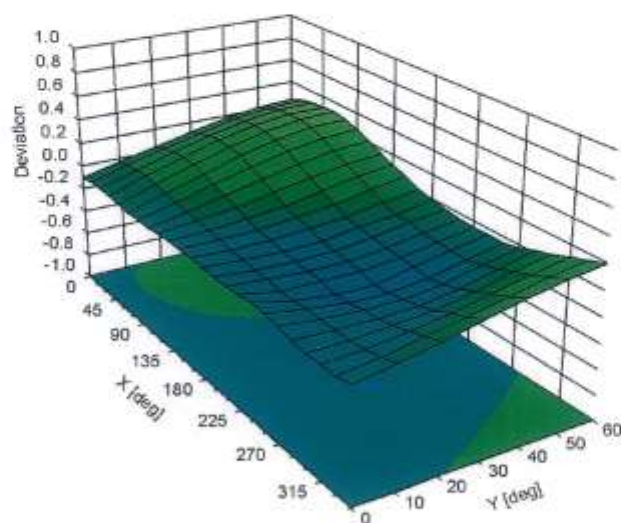
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## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



Uncertainty of Spherical Isotropy Assessment:  $\pm 2.6\%$  ( $k=2$ )

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**DASY/EASY - Parameters of Probe: ES3DV3 - SN:3076****Other Probe Parameters**

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | -35        |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 10 mm      |
| Tip Diameter                                  | 4 mm       |
| Probe Tip to Sensor X Calibration Point       | 2 mm       |
| Probe Tip to Sensor Y Calibration Point       | 2 mm       |
| Probe Tip to Sensor Z Calibration Point       | 2 mm       |
| Recommended Measurement Distance from Surface | 3 mm       |



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**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB-μV | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>2</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00       | 1.00  | 0.00    | 229.6    | ± 3.5 %                          |
|               |                                               | Y | 0.00    | 0.00       | 1.00  |         | 211.1    |                                  |
|               |                                               | Z | 0.00    | 0.00       | 1.00  |         | 212.3    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 9.16    | 78.76      | 19.58 | 10.00   | 25.0     | ± 9.6 %                          |
|               |                                               | Y | 8.10    | 78.11      | 19.28 |         | 25.0     |                                  |
|               |                                               | Z | 8.54    | 78.68      | 19.30 |         | 25.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.31    | 71.44      | 17.59 | 0.00    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 0.96    | 65.85      | 14.05 |         | 150.0    |                                  |
|               |                                               | Z | 1.03    | 66.82      | 14.71 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.43    | 66.81      | 16.97 | 0.41    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.26    | 64.34      | 15.13 |         | 150.0    |                                  |
|               |                                               | Z | 1.31    | 64.93      | 15.53 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.34    | 67.46      | 17.65 | 1.46    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 5.20    | 67.09      | 17.31 |         | 150.0    |                                  |
|               |                                               | Z | 5.23    | 67.21      | 17.38 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 12.26   | 84.63      | 23.29 | 9.39    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 12.55   | 86.63      | 24.10 |         | 50.0     |                                  |
|               |                                               | Z | 13.08   | 86.89      | 23.92 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 12.00   | 84.13      | 23.17 | 9.57    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 12.04   | 85.73      | 23.83 |         | 50.0     |                                  |
|               |                                               | Z | 12.59   | 86.09      | 23.69 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 18.85   | 92.76      | 24.51 | 6.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 23.06   | 97.45      | 25.94 |         | 60.0     |                                  |
|               |                                               | Z | 24.36   | 97.48      | 25.68 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 20.19   | 102.77     | 38.33 | 12.57   | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 13.86   | 93.18      | 34.75 |         | 50.0     |                                  |
|               |                                               | Z | 19.46   | 103.80     | 39.07 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 19.76   | 99.27      | 33.67 | 9.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 14.85   | 93.88      | 31.91 |         | 60.0     |                                  |
|               |                                               | Z | 16.48   | 99.29      | 33.89 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 81.84   | 114.49     | 29.30 | 4.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 118.52     | 30.13 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 117.35     | 29.60 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 116.87     | 28.89 | 3.55    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 117.78     | 28.88 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 116.71     | 28.44 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 15.91   | 95.03      | 31.16 | 7.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 11.38   | 88.87      | 29.06 |         | 80.0     |                                  |
|               |                                               | Z | 13.82   | 93.30      | 30.72 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 30.15   | 99.84      | 25.84 | 5.30    | 70.0     | ± 9.6 %                          |
|               |                                               | Y | 37.21   | 104.19     | 26.92 |         | 70.0     |                                  |
|               |                                               | Z | 41.36   | 104.79     | 26.85 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 118.10     | 27.80 | 1.88    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 116.72     | 26.72 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 116.38     | 26.67 |         | 100.0    |                                  |

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|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 122.30 | 28.43 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 117.44 | 25.86 |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 118.21 | 26.32 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 14.42  | 91.28  | 25.38 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 10.29  | 86.58  | 23.66 |       | 70.0  |         |
|           |                                                     | Z | 12.14  | 89.11  | 24.45 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 10.48  | 91.53  | 24.19 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.76   | 79.75  | 19.71 |       | 100.0 |         |
|           |                                                     | Z | 5.74   | 82.37  | 20.69 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 6.62   | 86.73  | 22.48 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.05   | 75.20  | 17.68 |       | 100.0 |         |
|           |                                                     | Z | 3.60   | 77.51  | 18.67 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 15.95  | 93.13  | 26.03 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 11.34  | 88.37  | 24.34 |       | 70.0  |         |
|           |                                                     | Z | 13.49  | 91.02  | 25.14 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 10.41  | 91.42  | 24.11 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.64   | 79.43  | 19.55 |       | 100.0 |         |
|           |                                                     | Z | 5.62   | 82.11  | 20.56 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 7.03   | 87.87  | 22.93 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.12   | 75.72  | 17.96 |       | 100.0 |         |
|           |                                                     | Z | 3.70   | 78.11  | 18.96 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 2.48   | 75.30  | 18.48 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.66   | 69.18  | 14.85 |       | 150.0 |         |
|           |                                                     | Z | 1.79   | 70.23  | 15.54 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 14.74  | 87.77  | 22.95 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 16.09  | 90.60  | 23.87 |       | 50.0  |         |
|           |                                                     | Z | 16.98  | 90.81  | 23.69 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 123.82 | 2.90  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 116.34 | 0.54  |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 102.58 | 5.27  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 10.75  | 79.68  | 23.38 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 10.01  | 79.38  | 23.29 |       | 25.0  |         |
|           |                                                     | Z | 10.41  | 80.20  | 23.38 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 11.22  | 82.18  | 22.90 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 10.78  | 82.85  | 23.21 |       | 40.0  |         |
|           |                                                     | Z | 11.21  | 83.30  | 23.12 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 11.83  | 83.67  | 23.71 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 10.56  | 82.61  | 23.25 |       | 50.0  |         |
|           |                                                     | Z | 11.42  | 83.99  | 23.67 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 13.01  | 91.59  | 29.27 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 9.03   | 85.01  | 26.94 |       | 100.0 |         |
|           |                                                     | Z | 10.72  | 88.68  | 28.35 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.75   | 69.92  | 18.34 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.44   | 66.31  | 16.08 |       | 110.0 |         |
|           |                                                     | Z | 1.51   | 67.15  | 16.57 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 128.55 | 32.96 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 13.71  | 99.86  | 25.53 |       | 110.0 |         |
|           |                                                     | Z | 37.52  | 113.73 | 29.09 |       | 110.0 |         |

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|           |                                                |   |       |        |       |      |       |         |
|-----------|------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 18.88 | 103.58 | 28.87 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 6.17  | 86.09  | 23.34 |      | 110.0 |         |
|           |                                                | Z | 8.26  | 90.58  | 24.79 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 5.04  | 67.16  | 16.91 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.90  | 66.78  | 16.56 |      | 100.0 |         |
|           |                                                | Z | 4.93  | 66.90  | 16.63 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 5.09  | 67.37  | 17.07 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.95  | 66.96  | 16.71 |      | 100.0 |         |
|           |                                                | Z | 4.97  | 67.08  | 16.78 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.48  | 67.76  | 17.35 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.30  | 67.34  | 17.00 |      | 100.0 |         |
|           |                                                | Z | 5.33  | 67.46  | 17.07 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.38  | 67.84  | 17.54 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.21  | 67.40  | 17.18 |      | 100.0 |         |
|           |                                                | Z | 5.24  | 67.52  | 17.25 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.46  | 68.03  | 17.80 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.28  | 67.56  | 17.42 |      | 100.0 |         |
|           |                                                | Z | 5.31  | 67.69  | 17.49 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.80  | 68.19  | 18.28 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.62  | 67.75  | 17.90 |      | 100.0 |         |
|           |                                                | Z | 5.65  | 67.88  | 17.98 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 6.00  | 68.73  | 18.71 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.79  | 68.20  | 18.31 |      | 100.0 |         |
|           |                                                | Z | 5.82  | 68.34  | 18.40 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 6.06  | 68.56  | 18.86 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.87  | 68.11  | 18.46 |      | 100.0 |         |
|           |                                                | Z | 5.90  | 68.26  | 18.58 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.52  | 67.78  | 18.07 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.37  | 67.37  | 17.72 |      | 100.0 |         |
|           |                                                | Z | 5.39  | 67.50  | 17.79 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.64  | 68.48  | 18.44 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.46  | 67.97  | 18.05 |      | 100.0 |         |
|           |                                                | Z | 5.49  | 68.12  | 18.13 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.82  | 68.95  | 18.91 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.62  | 68.38  | 18.49 |      | 100.0 |         |
|           |                                                | Z | 5.65  | 68.54  | 18.59 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.90  | 69.18  | 19.27 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.68  | 68.51  | 18.78 |      | 100.0 |         |
|           |                                                | Z | 5.71  | 68.70  | 18.90 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 6.16  | 69.98  | 19.91 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.88  | 69.11  | 19.32 |      | 90.0  |         |
|           |                                                | Z | 5.92  | 69.35  | 19.48 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 6.16  | 69.78  | 20.03 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.90  | 68.93  | 19.45 |      | 90.0  |         |
|           |                                                | Z | 5.93  | 69.17  | 19.61 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 6.21  | 69.90  | 20.15 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.94  | 69.02  | 19.55 |      | 90.0  |         |
|           |                                                | Z | 5.97  | 69.27  | 19.72 |      | 90.0  |         |



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|           |                                                     |   |       |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 1.26  | 70.70 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.84  | 64.70 | 12.17 |      | 150.0 |         |
|           |                                                     | Z | 0.90  | 65.61 | 12.90 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 3.15  | 66.05 | 10.71 | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 2.48  | 64.66 | 9.77  |      | 80.0  |         |
|           |                                                     | Z | 2.60  | 64.89 | 9.82  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 18.57 | 92.55 | 24.48 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 22.66 | 97.21 | 25.90 |      | 60.0  |         |
|           |                                                     | Z | 23.88 | 97.21 | 25.64 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.98  | 68.70 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.75  | 66.38 | 14.96 |      | 150.0 |         |
|           |                                                     | Z | 1.80  | 66.87 | 15.30 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.94  | 68.71 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.71  | 66.33 | 14.91 |      | 150.0 |         |
|           |                                                     | Z | 1.77  | 66.83 | 15.26 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 19.63 | 99.08 | 33.60 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 14.80 | 93.76 | 31.87 |      | 60.0  |         |
|           |                                                     | Z | 18.37 | 99.12 | 33.83 |      | 60.0  |         |
| 10100-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.64  | 72.34 | 17.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.12  | 69.65 | 16.07 |      | 150.0 |         |
|           |                                                     | Z | 3.22  | 70.22 | 16.37 |      | 150.0 |         |
| 10101-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.55  | 68.64 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.31  | 67.34 | 15.66 |      | 150.0 |         |
|           |                                                     | Z | 3.36  | 67.65 | 15.84 |      | 150.0 |         |
| 10102-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.64  | 68.45 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.42  | 67.30 | 15.76 |      | 150.0 |         |
|           |                                                     | Z | 3.46  | 67.57 | 15.92 |      | 150.0 |         |
| 10103-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 9.28  | 77.61 | 20.86 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.20  | 76.35 | 20.43 |      | 65.0  |         |
|           |                                                     | Z | 8.60  | 77.04 | 20.64 |      | 65.0  |         |
| 10104-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 9.53  | 77.20 | 21.60 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.47  | 75.78 | 21.04 |      | 65.0  |         |
|           |                                                     | Z | 8.87  | 76.56 | 21.33 |      | 65.0  |         |
| 10105-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 8.43  | 74.79 | 20.82 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.55  | 73.49 | 20.30 |      | 65.0  |         |
|           |                                                     | Z | 7.91  | 74.31 | 20.62 |      | 65.0  |         |
| 10108-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 3.22  | 71.44 | 17.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.77  | 68.89 | 15.90 |      | 150.0 |         |
|           |                                                     | Z | 2.86  | 69.42 | 16.20 |      | 150.0 |         |
| 10109-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 3.23  | 68.43 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.98  | 67.08 | 15.55 |      | 150.0 |         |
|           |                                                     | Z | 3.03  | 67.38 | 15.74 |      | 150.0 |         |
| 10110-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.66  | 70.47 | 17.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.27  | 67.90 | 15.53 |      | 150.0 |         |
|           |                                                     | Z | 2.35  | 68.44 | 15.86 |      | 150.0 |         |
| 10111-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.91  | 68.82 | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.65  | 67.37 | 15.70 |      | 150.0 |         |
|           |                                                     | Z | 2.70  | 67.65 | 15.89 |      | 150.0 |         |

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|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.34 | 68.23 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.10 | 67.04 | 15.61 |      | 150.0 |         |
|           |                                                | Z | 3.15 | 67.31 | 15.78 |      | 150.0 |         |
| 10113-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 3.06 | 68.77 | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.81 | 67.49 | 15.84 |      | 150.0 |         |
|           |                                                | Z | 2.86 | 67.74 | 16.01 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.36 | 67.55 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.10 | 16.30 |      | 150.0 |         |
|           |                                                | Z | 5.25 | 67.22 | 16.36 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.83 | 68.09 | 16.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.61 | 67.46 | 16.49 |      | 150.0 |         |
|           |                                                | Z | 5.64 | 67.58 | 16.55 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.50 | 67.80 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.36 | 67.37 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.38 | 67.48 | 16.41 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.36 | 67.56 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.24 | 67.13 | 16.34 |      | 150.0 |         |
|           |                                                | Z | 5.26 | 67.25 | 16.39 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.82 | 67.96 | 16.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.66 | 67.54 | 16.54 |      | 150.0 |         |
|           |                                                | Z | 5.68 | 67.63 | 16.58 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.46 | 67.73 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.34 | 67.34 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.35 | 67.44 | 16.40 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.70 | 68.45 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.47 | 67.30 | 15.69 |      | 150.0 |         |
|           |                                                | Z | 3.52 | 67.58 | 15.85 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.81 | 68.40 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.59 | 67.37 | 15.85 |      | 150.0 |         |
|           |                                                | Z | 3.63 | 67.61 | 15.99 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.44 | 70.40 | 17.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.04 | 67.65 | 15.24 |      | 150.0 |         |
|           |                                                | Z | 2.12 | 68.22 | 15.62 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.81 | 69.50 | 16.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.49 | 67.76 | 15.47 |      | 150.0 |         |
|           |                                                | Z | 2.55 | 68.08 | 15.71 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.66 | 67.82 | 15.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.36 | 66.19 | 14.27 |      | 150.0 |         |
|           |                                                | Z | 2.43 | 66.57 | 14.56 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.88 | 69.82 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.39 | 65.57 | 12.82 |      | 150.0 |         |
|           |                                                | Z | 1.48 | 66.34 | 13.43 |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 4.50 | 77.19 | 18.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.13 | 71.69 | 15.74 |      | 150.0 |         |
|           |                                                | Z | 3.22 | 71.87 | 15.88 |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 5.51 | 80.43 | 20.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.83 | 74.65 | 17.18 |      | 150.0 |         |
|           |                                                | Z | 3.81 | 74.36 | 17.11 |      | 150.0 |         |

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|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.24 | 68.48 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.99 | 67.13 | 15.59 |      | 150.0 |         |
|           |                                            | Z | 3.04 | 67.43 | 15.77 |      | 150.0 |         |
| 10150-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.35 | 68.28 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.11 | 67.08 | 15.65 |      | 150.0 |         |
|           |                                            | Z | 3.16 | 67.35 | 15.81 |      | 150.0 |         |
| 10151-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 9.61 | 79.23 | 21.61 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.51 | 78.11 | 21.23 |      | 65.0  |         |
|           |                                            | Z | 8.98 | 78.86 | 21.46 |      | 65.0  |         |
| 10152-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 9.23 | 77.46 | 21.56 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.07 | 75.84 | 20.87 |      | 65.0  |         |
|           |                                            | Z | 8.51 | 76.72 | 21.21 |      | 65.0  |         |
| 10153-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 9.51 | 77.96 | 22.07 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.40 | 76.49 | 21.46 |      | 65.0  |         |
|           |                                            | Z | 8.82 | 77.30 | 21.77 |      | 65.0  |         |
| 10154-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.74 | 70.98 | 17.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.32 | 68.30 | 15.79 |      | 150.0 |         |
|           |                                            | Z | 2.40 | 68.83 | 16.11 |      | 150.0 |         |
| 10155-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.91 | 68.81 | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.65 | 67.37 | 15.71 |      | 150.0 |         |
|           |                                            | Z | 2.70 | 67.65 | 15.90 |      | 150.0 |         |
| 10156-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.33 | 70.88 | 17.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.89 | 67.69 | 15.12 |      | 150.0 |         |
|           |                                            | Z | 1.98 | 68.32 | 15.54 |      | 150.0 |         |
| 10157-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.51 | 68.58 | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.18 | 66.57 | 14.30 |      | 150.0 |         |
|           |                                            | Z | 2.25 | 67.01 | 14.63 |      | 150.0 |         |
| 10158-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 3.07 | 68.80 | 16.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.81 | 67.53 | 15.88 |      | 150.0 |         |
|           |                                            | Z | 2.86 | 67.77 | 16.04 |      | 150.0 |         |
| 10159-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.62 | 68.92 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.28 | 66.96 | 14.57 |      | 150.0 |         |
|           |                                            | Z | 2.35 | 67.37 | 14.89 |      | 150.0 |         |
| 10160-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 3.09 | 69.80 | 16.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.79 | 68.06 | 15.82 |      | 150.0 |         |
|           |                                            | Z | 2.85 | 68.41 | 16.03 |      | 150.0 |         |
| 10161-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.23 | 68.12 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.00 | 66.95 | 15.58 |      | 150.0 |         |
|           |                                            | Z | 3.05 | 67.21 | 15.75 |      | 150.0 |         |
| 10162-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.32 | 68.06 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.11 | 67.01 | 15.66 |      | 150.0 |         |
|           |                                            | Z | 3.15 | 67.26 | 15.82 |      | 150.0 |         |
| 10166-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 4.29 | 70.92 | 20.04 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.99 | 69.96 | 19.35 |      | 150.0 |         |
|           |                                            | Z | 4.07 | 70.21 | 19.43 |      | 150.0 |         |
| 10167-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 5.60 | 74.10 | 20.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.05 | 72.81 | 19.82 |      | 150.0 |         |
|           |                                            | Z | 5.22 | 73.20 | 19.95 |      | 150.0 |         |

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|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.00  | 75.56  | 21.53 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.48  | 74.58  | 20.89 |      | 150.0 |         |
|           |                                            | Z | 5.62  | 74.77  | 20.91 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 4.35  | 74.10  | 21.32 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.68  | 71.30  | 19.88 |      | 150.0 |         |
|           |                                            | Z | 3.85  | 72.00  | 20.14 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 6.52  | 80.39  | 23.41 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.25  | 77.06  | 21.95 |      | 150.0 |         |
|           |                                            | Z | 5.54  | 77.68  | 22.09 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 5.43  | 76.38  | 21.00 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.35  | 73.06  | 19.41 |      | 150.0 |         |
|           |                                            | Z | 4.65  | 73.95  | 19.73 |      | 150.0 |         |
| 10172-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 26.11 | 103.14 | 31.43 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 17.44 | 97.23  | 29.74 |      | 65.0  |         |
|           |                                            | Z | 21.81 | 101.08 | 30.82 |      | 65.0  |         |
| 10173-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 21.26 | 95.48  | 27.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 18.61 | 94.80  | 27.59 |      | 65.0  |         |
|           |                                            | Z | 20.35 | 95.83  | 27.76 |      | 65.0  |         |
| 10174-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 18.48 | 92.02  | 26.25 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 15.88 | 91.01  | 25.95 |      | 65.0  |         |
|           |                                            | Z | 17.31 | 91.99  | 26.13 |      | 65.0  |         |
| 10175-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 4.28  | 73.71  | 21.06 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.63  | 70.95  | 19.62 |      | 150.0 |         |
|           |                                            | Z | 3.80  | 71.67  | 19.90 |      | 150.0 |         |
| 10176-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 6.52  | 80.41  | 23.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.26  | 77.08  | 21.96 |      | 150.0 |         |
|           |                                            | Z | 5.55  | 77.70  | 22.10 |      | 150.0 |         |
| 10177-CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 4.32  | 73.90  | 21.17 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.66  | 71.13  | 19.73 |      | 150.0 |         |
|           |                                            | Z | 3.83  | 71.83  | 19.99 |      | 150.0 |         |
| 10178-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 6.42  | 80.09  | 23.26 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.18  | 76.79  | 21.81 |      | 150.0 |         |
|           |                                            | Z | 5.47  | 77.43  | 21.96 |      | 150.0 |         |
| 10179-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 5.91  | 78.18  | 22.04 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.75  | 74.89  | 20.53 |      | 150.0 |         |
|           |                                            | Z | 5.05  | 75.66  | 20.76 |      | 150.0 |         |
| 10180-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 5.40  | 76.26  | 20.93 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.34  | 72.96  | 19.34 |      | 150.0 |         |
|           |                                            | Z | 4.63  | 73.87  | 19.68 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 4.32  | 73.88  | 21.16 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.65  | 71.11  | 19.72 |      | 150.0 |         |
|           |                                            | Z | 3.83  | 71.81  | 19.99 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 6.41  | 80.06  | 23.25 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.17  | 76.77  | 21.80 |      | 150.0 |         |
|           |                                            | Z | 5.46  | 77.41  | 21.96 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 5.39  | 76.24  | 20.92 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.33  | 72.94  | 19.33 |      | 150.0 |         |
|           |                                            | Z | 4.63  | 73.84  | 19.67 |      | 150.0 |         |



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|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 4.33 | 73.92 | 21.18 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.67 | 71.15 | 19.74 |      | 150.0 |         |
|           |                                               | Z | 3.84 | 71.85 | 20.01 |      | 150.0 |         |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 6.44 | 80.13 | 23.28 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.20 | 76.84 | 21.84 |      | 150.0 |         |
|           |                                               | Z | 5.49 | 77.47 | 21.99 |      | 150.0 |         |
| 10186-AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 5.42 | 76.30 | 20.95 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.35 | 73.00 | 19.37 |      | 150.0 |         |
|           |                                               | Z | 4.65 | 73.91 | 19.70 |      | 150.0 |         |
| 10187-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 4.34 | 73.95 | 21.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.67 | 71.19 | 19.79 |      | 150.0 |         |
|           |                                               | Z | 3.85 | 71.89 | 20.05 |      | 150.0 |         |
| 10188-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 6.67 | 80.85 | 23.65 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.38 | 77.54 | 22.22 |      | 150.0 |         |
|           |                                               | Z | 5.66 | 78.11 | 22.33 |      | 150.0 |         |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 5.55 | 76.77 | 21.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.45 | 73.44 | 19.64 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 74.32 | 19.95 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.79 | 66.88 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.65 | 66.47 | 16.06 |      | 150.0 |         |
|           |                                               | Z | 4.68 | 66.60 | 16.13 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 5.01 | 67.29 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.85 | 66.85 | 16.17 |      | 150.0 |         |
|           |                                               | Z | 4.88 | 66.98 | 16.24 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 5.05 | 67.27 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.89 | 66.86 | 16.18 |      | 150.0 |         |
|           |                                               | Z | 4.92 | 66.98 | 16.24 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.82 | 67.00 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.67 | 66.57 | 16.09 |      | 150.0 |         |
|           |                                               | Z | 4.70 | 66.71 | 16.17 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 5.03 | 67.30 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.87 | 66.87 | 16.18 |      | 150.0 |         |
|           |                                               | Z | 4.90 | 67.00 | 16.25 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 5.05 | 67.28 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.90 | 66.87 | 16.19 |      | 150.0 |         |
|           |                                               | Z | 4.93 | 67.00 | 16.25 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.77 | 67.03 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.62 | 66.58 | 16.05 |      | 150.0 |         |
|           |                                               | Z | 4.65 | 66.72 | 16.13 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 5.03 | 67.31 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.87 | 66.86 | 16.18 |      | 150.0 |         |
|           |                                               | Z | 4.90 | 67.00 | 16.25 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 5.06 | 67.23 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.90 | 66.81 | 16.18 |      | 150.0 |         |
|           |                                               | Z | 4.94 | 66.94 | 16.25 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.35 | 67.60 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.22 | 67.15 | 16.34 |      | 150.0 |         |
|           |                                               | Z | 5.24 | 67.28 | 16.39 |      | 150.0 |         |

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|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.72  | 67.80  | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.61  | 67.57  | 16.58 |      | 150.0 |         |
|           |                                           | Z | 5.63  | 67.65  | 16.61 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.42  | 67.76  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.26  | 67.25  | 16.31 |      | 150.0 |         |
|           |                                           | Z | 5.29  | 67.38  | 16.37 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 3.05  | 66.56  | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.88  | 65.73  | 15.22 |      | 150.0 |         |
|           |                                           | Z | 2.92  | 65.94  | 15.38 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 21.78 | 96.01  | 27.97 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 19.26 | 95.51  | 27.89 |      | 65.0  |         |
|           |                                           | Z | 20.99 | 96.47  | 28.03 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 18.78 | 92.42  | 26.46 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.98 | 92.27  | 26.44 |      | 65.0  |         |
|           |                                           | Z | 18.08 | 92.82  | 26.47 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 26.41 | 103.89 | 31.77 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 19.31 | 99.68  | 30.62 |      | 65.0  |         |
|           |                                           | Z | 23.50 | 102.98 | 31.50 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 21.25 | 95.47  | 27.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.64 | 94.82  | 27.60 |      | 65.0  |         |
|           |                                           | Z | 20.37 | 95.83  | 27.76 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 18.37 | 91.97  | 26.25 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.49 | 91.69  | 26.19 |      | 65.0  |         |
|           |                                           | Z | 17.61 | 92.30  | 26.24 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 25.67 | 103.26 | 31.52 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.66 | 98.92  | 30.32 |      | 65.0  |         |
|           |                                           | Z | 22.73 | 102.25 | 31.21 |      | 65.0  |         |
| 10232-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 21.25 | 95.47  | 27.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.63 | 94.81  | 27.60 |      | 65.0  |         |
|           |                                           | Z | 20.36 | 95.83  | 27.76 |      | 65.0  |         |
| 10233-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 18.38 | 91.99  | 26.26 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.48 | 91.69  | 26.19 |      | 65.0  |         |
|           |                                           | Z | 17.62 | 92.31  | 26.24 |      | 65.0  |         |
| 10234-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 24.85 | 102.50 | 31.21 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.00 | 98.09  | 29.97 |      | 65.0  |         |
|           |                                           | Z | 21.91 | 101.40 | 30.87 |      | 65.0  |         |
| 10235-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 21.27 | 95.50  | 27.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.65 | 94.84  | 27.61 |      | 65.0  |         |
|           |                                           | Z | 20.39 | 95.86  | 27.77 |      | 65.0  |         |
| 10236-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 18.47 | 92.06  | 26.28 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.57 | 91.78  | 26.22 |      | 65.0  |         |
|           |                                           | Z | 17.71 | 92.39  | 26.27 |      | 65.0  |         |
| 10237-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 25.88 | 103.44 | 31.57 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.75 | 99.04  | 30.35 |      | 65.0  |         |
|           |                                           | Z | 22.88 | 102.40 | 31.26 |      | 65.0  |         |
| 10238-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 21.25 | 95.48  | 27.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.62 | 94.81  | 27.60 |      | 65.0  |         |
|           |                                           | Z | 20.36 | 95.83  | 27.76 |      | 65.0  |         |

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|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 18.39 | 92.01  | 26.27 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 16.48 | 91.70  | 26.20 |      | 65.0 |         |
|           |                                            | Z | 17.62 | 92.32  | 26.25 |      | 65.0 |         |
| 10240-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 25.82 | 103.40 | 31.56 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 18.70 | 99.00  | 30.34 |      | 65.0 |         |
|           |                                            | Z | 22.82 | 102.36 | 31.24 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 14.17 | 87.13  | 27.74 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 11.90 | 84.38  | 26.55 |      | 65.0 |         |
|           |                                            | Z | 12.90 | 86.01  | 27.18 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 13.75 | 86.43  | 27.41 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.97 | 82.54  | 25.74 |      | 65.0 |         |
|           |                                            | Z | 11.92 | 84.22  | 26.40 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 12.14 | 85.96  | 28.11 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.29  | 80.75  | 25.83 |      | 65.0 |         |
|           |                                            | Z | 10.12 | 82.70  | 26.67 |      | 65.0 |         |
| 10244-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 10.83 | 81.28  | 22.12 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.18  | 79.33  | 21.05 |      | 65.0 |         |
|           |                                            | Z | 9.58  | 79.73  | 21.13 |      | 65.0 |         |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 10.76 | 80.95  | 21.96 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.12  | 78.99  | 20.88 |      | 65.0 |         |
|           |                                            | Z | 9.52  | 79.41  | 20.96 |      | 65.0 |         |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 9.94  | 82.24  | 22.11 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.01  | 79.62  | 20.88 |      | 65.0 |         |
|           |                                            | Z | 8.73  | 80.80  | 21.30 |      | 65.0 |         |
| 10247-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 8.85  | 78.39  | 21.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.43  | 76.23  | 20.06 |      | 65.0 |         |
|           |                                            | Z | 7.90  | 77.13  | 20.43 |      | 65.0 |         |
| 10248-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 8.90  | 78.06  | 21.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.49  | 75.93  | 19.93 |      | 65.0 |         |
|           |                                            | Z | 7.96  | 76.84  | 20.31 |      | 65.0 |         |
| 10249-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 10.29 | 82.74  | 22.67 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.60  | 80.75  | 21.80 |      | 65.0 |         |
|           |                                            | Z | 9.32  | 81.88  | 22.19 |      | 65.0 |         |
| 10250-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 9.43  | 79.37  | 22.43 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.15  | 77.66  | 21.69 |      | 65.0 |         |
|           |                                            | Z | 8.63  | 78.56  | 22.01 |      | 65.0 |         |
| 10251-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 9.08  | 77.69  | 21.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.89  | 76.03  | 20.77 |      | 65.0 |         |
|           |                                            | Z | 8.34  | 76.93  | 21.13 |      | 65.0 |         |
| 10252-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 10.08 | 81.60  | 22.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.72  | 80.20  | 22.10 |      | 65.0 |         |
|           |                                            | Z | 9.33  | 81.16  | 22.40 |      | 65.0 |         |
| 10253-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 9.02  | 76.99  | 21.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.89  | 75.34  | 20.71 |      | 65.0 |         |
|           |                                            | Z | 8.31  | 76.21  | 21.06 |      | 65.0 |         |
| 10254-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 9.34  | 77.53  | 21.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.23  | 76.00  | 21.27 |      | 65.0 |         |
|           |                                            | Z | 8.65  | 76.82  | 21.59 |      | 65.0 |         |

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|           |                                             |   |       |       |       |      |      |         |
|-----------|---------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10255-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 9.45  | 79.15 | 21.83 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.30  | 77.85 | 21.36 |      | 65.0 |         |
|           |                                             | Z | 8.78  | 78.67 | 21.63 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 10.42 | 80.50 | 21.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.51  | 77.93 | 19.85 |      | 65.0 |         |
|           |                                             | Z | 8.90  | 78.34 | 19.94 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 10.37 | 80.09 | 21.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.43  | 77.45 | 19.59 |      | 65.0 |         |
|           |                                             | Z | 8.83  | 77.89 | 19.70 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 9.58  | 81.49 | 21.48 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.31  | 77.96 | 19.76 |      | 65.0 |         |
|           |                                             | Z | 8.00  | 79.20 | 20.24 |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 9.07  | 78.66 | 21.59 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.71  | 76.71 | 20.62 |      | 65.0 |         |
|           |                                             | Z | 8.19  | 77.61 | 20.97 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 9.12  | 78.49 | 21.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.77  | 76.57 | 20.59 |      | 65.0 |         |
|           |                                             | Z | 8.24  | 77.45 | 20.93 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 10.00 | 81.98 | 22.59 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.43  | 80.12 | 21.81 |      | 65.0 |         |
|           |                                             | Z | 9.10  | 81.22 | 22.18 |      | 65.0 |         |
| 10262-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 9.43  | 79.35 | 22.41 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.15  | 77.63 | 21.66 |      | 65.0 |         |
|           |                                             | Z | 8.63  | 78.53 | 21.99 |      | 65.0 |         |
| 10263-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 9.08  | 77.71 | 21.57 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.88  | 76.03 | 20.78 |      | 65.0 |         |
|           |                                             | Z | 8.34  | 76.93 | 21.14 |      | 65.0 |         |
| 10264-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 10.04 | 81.52 | 22.57 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.68  | 80.09 | 22.04 |      | 65.0 |         |
|           |                                             | Z | 9.29  | 81.07 | 22.35 |      | 65.0 |         |
| 10265-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 9.22  | 77.46 | 21.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.07  | 75.84 | 20.87 |      | 65.0 |         |
|           |                                             | Z | 8.51  | 76.73 | 21.22 |      | 65.0 |         |
| 10266-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 9.51  | 77.96 | 22.07 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.40  | 76.48 | 21.48 |      | 65.0 |         |
|           |                                             | Z | 8.82  | 77.30 | 21.77 |      | 65.0 |         |
| 10267-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 9.60  | 79.21 | 21.61 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.51  | 78.09 | 21.22 |      | 65.0 |         |
|           |                                             | Z | 8.97  | 78.84 | 21.45 |      | 65.0 |         |
| 10268-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 9.60  | 76.90 | 21.63 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.59  | 75.57 | 21.09 |      | 65.0 |         |
|           |                                             | Z | 8.97  | 76.30 | 21.37 |      | 65.0 |         |
| 10269-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 9.53  | 76.58 | 21.59 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.54  | 75.23 | 21.03 |      | 65.0 |         |
|           |                                             | Z | 8.90  | 75.97 | 21.31 |      | 65.0 |         |
| 10270-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 9.35  | 77.33 | 21.00 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.40  | 76.30 | 20.65 |      | 65.0 |         |
|           |                                             | Z | 8.77  | 76.91 | 20.83 |      | 65.0 |         |



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|           |                                                                    |   |       |       |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.74  | 66.79 | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.59  | 65.78 | 14.93 |      | 150.0 |         |
|           |                                                                    | Z | 2.63  | 66.05 | 15.13 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.89  | 70.13 | 16.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.56  | 66.71 | 14.72 |      | 150.0 |         |
|           |                                                                    | Z | 1.63  | 67.40 | 15.18 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 7.49  | 72.57 | 16.65 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 6.43  | 70.97 | 15.57 |      | 50.0  |         |
|           |                                                                    | Z | 6.57  | 71.17 | 15.54 |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 10.57 | 80.67 | 21.94 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 8.93  | 78.42 | 20.80 |      | 50.0  |         |
|           |                                                                    | Z | 9.47  | 79.42 | 21.10 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 10.77 | 80.90 | 22.03 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.08  | 78.61 | 20.88 |      | 50.0  |         |
|           |                                                                    | Z | 9.65  | 79.64 | 21.20 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.05  | 72.30 | 16.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.45  | 67.21 | 13.68 |      | 150.0 |         |
|           |                                                                    | Z | 1.55  | 68.14 | 14.34 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.22  | 70.30 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.82  | 64.51 | 12.05 |      | 150.0 |         |
|           |                                                                    | Z | 0.89  | 65.39 | 12.77 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.60  | 75.63 | 18.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.92  | 66.78 | 13.58 |      | 150.0 |         |
|           |                                                                    | Z | 1.01  | 68.06 | 14.48 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 2.25  | 81.24 | 21.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.14  | 69.80 | 15.48 |      | 150.0 |         |
|           |                                                                    | Z | 1.26  | 71.30 | 16.43 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 10.97 | 82.56 | 24.20 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.82  | 80.92 | 23.30 |      | 50.0  |         |
|           |                                                                    | Z | 10.33 | 82.09 | 23.78 |      | 50.0  |         |
| 10297-AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 3.23  | 71.54 | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.78  | 68.97 | 15.96 |      | 150.0 |         |
|           |                                                                    | Z | 2.87  | 69.50 | 16.25 |      | 150.0 |         |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 2.13  | 70.69 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.65  | 66.96 | 14.13 |      | 150.0 |         |
|           |                                                                    | Z | 1.74  | 67.67 | 14.65 |      | 150.0 |         |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 4.48  | 76.39 | 19.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.49  | 72.60 | 16.79 |      | 150.0 |         |
|           |                                                                    | Z | 3.55  | 72.64 | 16.82 |      | 150.0 |         |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 3.52  | 71.59 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.73  | 68.13 | 14.07 |      | 150.0 |         |
|           |                                                                    | Z | 2.85  | 68.55 | 14.32 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 6.46  | 69.98 | 19.94 | 4.17 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 5.96  | 68.39 | 18.82 |      | 80.0  |         |
|           |                                                                    | Z | 6.03  | 68.69 | 19.06 |      | 80.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 6.96  | 70.71 | 20.76 | 4.96 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 6.49  | 69.16 | 19.65 |      | 80.0  |         |
|           |                                                                    | Z | 6.64  | 69.89 | 20.15 |      | 80.0  |         |

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|           |                                                                     |   |       |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 6.95  | 71.26 | 21.07 | 4.96  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.39  | 69.39 | 19.77 |       | 80.0  |         |
|           |                                                                     | Z | 6.57  | 70.24 | 20.35 |       | 80.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 6.39  | 69.94 | 19.92 | 4.17  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.93  | 68.42 | 18.83 |       | 80.0  |         |
|           |                                                                     | Z | 6.07  | 69.09 | 19.29 |       | 80.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 11.13 | 84.88 | 27.64 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 12.22 | 87.98 | 28.58 |       | 50.0  |         |
|           |                                                                     | Z | 9.20  | 80.56 | 25.46 |       | 50.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 8.31  | 76.80 | 24.47 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.10  | 72.89 | 22.06 |       | 50.0  |         |
|           |                                                                     | Z | 7.53  | 74.67 | 23.17 |       | 50.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 8.77  | 78.27 | 24.87 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.27  | 73.71 | 22.23 |       | 50.0  |         |
|           |                                                                     | Z | 7.81  | 75.79 | 23.45 |       | 50.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 9.01  | 79.13 | 25.25 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 9.09  | 80.42 | 25.64 |       | 50.0  |         |
|           |                                                                     | Z | 7.95  | 76.42 | 23.73 |       | 50.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 8.45  | 77.06 | 24.59 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.23  | 73.21 | 22.23 |       | 50.0  |         |
|           |                                                                     | Z | 7.69  | 75.04 | 23.35 |       | 50.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 8.44  | 77.28 | 24.56 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.14  | 73.15 | 22.08 |       | 50.0  |         |
|           |                                                                     | Z | 7.61  | 75.04 | 23.22 |       | 50.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.60  | 70.76 | 17.04 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.12  | 68.32 | 15.67 |       | 150.0 |         |
|           |                                                                     | Z | 3.21  | 68.83 | 15.94 |       | 150.0 |         |
| 10313-AAA | IDEN 1:3                                                            | X | 8.03  | 77.05 | 18.42 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 6.51  | 75.48 | 17.84 |       | 70.0  |         |
|           |                                                                     | Z | 7.11  | 76.37 | 18.07 |       | 70.0  |         |
| 10314-AAA | IDEN 1:6                                                            | X | 9.86  | 81.46 | 22.21 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 7.37  | 78.23 | 21.16 |       | 30.0  |         |
|           |                                                                     | Z | 8.31  | 80.00 | 21.70 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.25  | 66.07 | 16.65 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.11  | 63.75 | 14.78 |       | 150.0 |         |
|           |                                                                     | Z | 1.15  | 64.28 | 15.16 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.91  | 67.11 | 16.64 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.77  | 66.70 | 16.28 |       | 150.0 |         |
|           |                                                                     | Z | 4.80  | 66.83 | 16.35 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.91  | 67.11 | 16.64 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.77  | 66.70 | 16.28 |       | 150.0 |         |
|           |                                                                     | Z | 4.80  | 66.83 | 16.35 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 5.04  | 67.35 | 16.54 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.87  | 66.91 | 16.17 |       | 150.0 |         |
|           |                                                                     | Z | 4.90  | 67.05 | 16.24 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.62  | 67.38 | 16.58 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.49  | 67.04 | 16.29 |       | 150.0 |         |
|           |                                                                     | Z | 5.51  | 67.12 | 16.33 |       | 150.0 |         |

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|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.93   | 67.99  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.79   | 67.58  | 16.40 |      | 150.0 |         |
|           |                                                                                 | Z | 5.82   | 67.69  | 16.45 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 2.05   | 72.30  | 16.99 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.45   | 67.21  | 13.68 |      | 115.0 |         |
|           |                                                                                 | Z | 1.55   | 68.14  | 14.34 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 2.05   | 72.30  | 16.99 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.45   | 67.21  | 13.68 |      | 115.0 |         |
|           |                                                                                 | Z | 1.55   | 68.14  | 14.34 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SC32, SCH0, Full Rate                                            | X | 32.57  | 109.30 | 29.68 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 14.12  | 95.69  | 25.24 |      | 100.0 |         |
|           |                                                                                 | Z | 13.06  | 93.72  | 24.51 |      | 100.0 |         |
| 10410-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 119.59 | 31.23 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 90.23  | 119.10 | 30.90 |      | 80.0  |         |
|           |                                                                                 | Z | 73.63  | 114.99 | 29.70 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.03   | 63.67  | 15.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.96   | 62.27  | 13.90 |      | 150.0 |         |
|           |                                                                                 | Z | 0.99   | 62.66  | 14.24 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.79   | 66.89  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.65   | 66.50  | 16.09 |      | 150.0 |         |
|           |                                                                                 | Z | 4.68   | 66.63  | 16.16 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.79   | 66.89  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.65   | 66.50  | 16.09 |      | 150.0 |         |
|           |                                                                                 | Z | 4.68   | 66.63  | 16.16 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.77   | 67.02  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.63   | 66.62  | 16.08 |      | 150.0 |         |
|           |                                                                                 | Z | 4.66   | 66.75  | 16.15 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.80   | 66.98  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.66   | 66.59  | 16.10 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 66.72  | 16.17 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.93   | 66.99  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.79   | 66.62  | 16.13 |      | 150.0 |         |
|           |                                                                                 | Z | 4.82   | 66.74  | 16.19 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 5.17   | 67.43  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.00   | 67.01  | 16.28 |      | 150.0 |         |
|           |                                                                                 | Z | 5.04   | 67.14  | 16.35 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 5.07   | 67.36  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.91   | 66.93  | 16.23 |      | 150.0 |         |
|           |                                                                                 | Z | 4.94   | 67.06  | 16.30 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.63   | 67.76  | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.49   | 67.36  | 16.45 |      | 150.0 |         |
|           |                                                                                 | Z | 5.51   | 67.45  | 16.49 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.65   | 67.78  | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.51   | 67.40  | 16.46 |      | 150.0 |         |
|           |                                                                                 | Z | 5.53   | 67.49  | 16.50 |      | 150.0 |         |

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|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.68   | 67.84  | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.53   | 67.40  | 16.46 |      | 150.0 |         |
|           |                                                                | Z | 5.55   | 67.50  | 16.50 |      | 150.0 |         |
| 10430-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.47   | 69.87  | 18.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.27   | 69.57  | 17.72 |      | 150.0 |         |
|           |                                                                | Z | 4.28   | 69.46  | 17.67 |      | 150.0 |         |
| 10431-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.58   | 67.49  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.38   | 66.98  | 16.12 |      | 150.0 |         |
|           |                                                                | Z | 4.43   | 67.13  | 16.21 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.86   | 67.41  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.68   | 66.94  | 16.18 |      | 150.0 |         |
|           |                                                                | Z | 4.72   | 67.08  | 16.26 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 5.09   | 67.43  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.92   | 66.98  | 16.26 |      | 150.0 |         |
|           |                                                                | Z | 4.96   | 67.12  | 16.33 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.54   | 70.42  | 18.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.33   | 70.14  | 17.66 |      | 150.0 |         |
|           |                                                                | Z | 4.33   | 70.01  | 17.61 |      | 150.0 |         |
| 10435-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 119.47 | 31.18 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 83.98  | 117.92 | 30.59 |      | 80.0  |         |
|           |                                                                | Z | 69.49  | 114.03 | 29.43 |      | 80.0  |         |
| 10447-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.92   | 67.58  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.68   | 66.87  | 15.56 |      | 150.0 |         |
|           |                                                                | Z | 3.73   | 67.06  | 15.71 |      | 150.0 |         |
| 10448-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.38   | 67.25  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.20   | 66.74  | 15.96 |      | 150.0 |         |
|           |                                                                | Z | 4.24   | 66.89  | 16.06 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.61   | 67.22  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.46   | 66.74  | 16.06 |      | 150.0 |         |
|           |                                                                | Z | 4.49   | 66.88  | 16.14 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.78   | 67.16  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.64   | 66.71  | 16.09 |      | 150.0 |         |
|           |                                                                | Z | 4.67   | 66.85  | 16.17 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.88   | 67.91  | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.60   | 67.09  | 15.29 |      | 150.0 |         |
|           |                                                                | Z | 3.66   | 67.30  | 15.46 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.48   | 68.41  | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.35   | 68.02  | 16.65 |      | 150.0 |         |
|           |                                                                | Z | 6.37   | 68.11  | 16.68 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.91   | 65.57  | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.82   | 65.14  | 15.81 |      | 150.0 |         |
|           |                                                                | Z | 3.85   | 65.28  | 15.90 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 4.04   | 69.06  | 17.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.91   | 69.08  | 17.04 |      | 150.0 |         |
|           |                                                                | Z | 3.92   | 68.98  | 17.03 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.19   | 66.69  | 17.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.12   | 67.13  | 17.73 |      | 150.0 |         |
|           |                                                                | Z | 5.12   | 66.98  | 17.64 |      | 150.0 |         |

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|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.14   | 72.75  | 18.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.80   | 65.97  | 14.46 |      | 150.0 |         |
|           |                                                                   | Z | 0.86   | 67.06  | 15.22 |      | 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 | 120.87 | 31.89 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.92 | 31.94 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 120.69 | 31.42 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 110.91 | 27.12 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 72.92  | 106.78 | 25.65 |      | 80.0  |         |
|           |                                                                   | Z | 38.73  | 98.41  | 23.48 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 109.00 | 26.18 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 26.58  | 93.05  | 21.71 |      | 80.0  |         |
|           |                                                                   | Z | 18.76  | 88.43  | 20.34 |      | 80.0  |         |
| 10464-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 119.54 | 31.14 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.34 | 31.07 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.15 | 30.56 |      | 80.0  |         |
| 10465-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 110.60 | 26.95 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 42.02  | 99.86  | 23.89 |      | 80.0  |         |
|           |                                                                   | Z | 27.42  | 94.07  | 22.27 |      | 80.0  |         |
| 10466-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 86.77  | 106.98 | 25.63 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 18.06  | 88.36  | 20.35 |      | 80.0  |         |
|           |                                                                   | Z | 14.47  | 85.26  | 19.37 |      | 80.0  |         |
| 10467-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 119.68 | 31.20 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.51 | 31.14 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.30 | 30.63 |      | 80.0  |         |
| 10468-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 110.70 | 27.00 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 47.82  | 101.50 | 24.32 |      | 80.0  |         |
|           |                                                                   | Z | 29.82  | 95.15  | 22.57 |      | 80.0  |         |
| 10469-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 90.40  | 107.48 | 25.74 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 18.38  | 88.58  | 20.41 |      | 80.0  |         |
|           |                                                                   | Z | 14.65  | 85.42  | 19.41 |      | 80.0  |         |
| 10470-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 119.70 | 31.21 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.53 | 31.15 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.32 | 30.64 |      | 80.0  |         |
| 10471-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 110.67 | 26.98 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 48.02  | 101.52 | 24.31 |      | 80.0  |         |
|           |                                                                   | Z | 29.90  | 95.16  | 22.57 |      | 80.0  |         |
| 10472-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 91.72  | 107.63 | 25.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 18.43  | 88.59  | 20.41 |      | 80.0  |         |
|           |                                                                   | Z | 14.68  | 85.43  | 19.40 |      | 80.0  |         |
| 10473-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 119.68 | 31.20 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.51 | 31.14 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.30 | 30.62 |      | 80.0  |         |
| 10474-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 110.68 | 26.98 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 47.38  | 101.37 | 24.27 |      | 80.0  |         |
|           |                                                                   | Z | 29.61  | 95.05  | 22.54 |      | 80.0  |         |
| 10475-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 90.31  | 107.45 | 25.73 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 18.22  | 88.47  | 20.37 |      | 80.0  |         |
|           |                                                                   | Z | 14.56  | 85.34  | 19.38 |      | 80.0  |         |

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|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 110.57 | 26.93 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 43.44  | 100.23 | 23.96 |      | 80.0 |         |
|           |                                                                     | Z | 28.02  | 94.31  | 22.32 |      | 80.0 |         |
| 10478-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 88.74  | 107.21 | 25.66 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 18.02  | 88.32  | 20.32 |      | 80.0 |         |
|           |                                                                     | Z | 14.45  | 85.24  | 19.34 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 14.05  | 92.09  | 26.05 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 10.06  | 87.22  | 24.09 |      | 80.0 |         |
|           |                                                                     | Z | 9.68   | 86.17  | 23.66 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 14.07  | 87.63  | 23.41 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 10.81  | 84.09  | 21.75 |      | 80.0 |         |
|           |                                                                     | Z | 10.21  | 82.87  | 21.28 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 13.28  | 86.17  | 22.69 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.95   | 82.31  | 20.89 |      | 80.0 |         |
|           |                                                                     | Z | 9.47   | 81.25  | 20.47 |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.85   | 81.81  | 21.32 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.70   | 74.77  | 18.32 |      | 80.0 |         |
|           |                                                                     | Z | 5.29   | 76.37  | 18.97 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 10.51  | 83.65  | 22.26 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.91   | 79.70  | 20.38 |      | 80.0 |         |
|           |                                                                     | Z | 7.69   | 78.97  | 20.07 |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 10.03  | 82.70  | 21.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.53   | 78.76  | 20.05 |      | 80.0 |         |
|           |                                                                     | Z | 7.39   | 78.17  | 19.79 |      | 80.0 |         |
| 10485-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 8.02   | 82.19  | 21.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.00   | 75.62  | 19.20 |      | 80.0 |         |
|           |                                                                     | Z | 5.60   | 77.18  | 19.80 |      | 80.0 |         |
| 10486-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.92   | 75.00  | 19.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.50   | 71.39  | 17.35 |      | 80.0 |         |
|           |                                                                     | Z | 4.81   | 72.27  | 17.75 |      | 80.0 |         |
| 10487-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.88   | 74.55  | 19.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.51   | 71.09  | 17.24 |      | 80.0 |         |
|           |                                                                     | Z | 4.81   | 71.93  | 17.62 |      | 80.0 |         |
| 10488-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 7.56   | 79.93  | 21.34 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.23   | 74.82  | 19.29 |      | 80.0 |         |
|           |                                                                     | Z | 5.73   | 76.13  | 19.78 |      | 80.0 |         |
| 10489-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.85   | 73.86  | 19.37 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.71   | 70.94  | 17.98 |      | 80.0 |         |
|           |                                                                     | Z | 4.97   | 71.73  | 18.31 |      | 80.0 |         |
| 10490-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.85   | 73.36  | 19.22 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.79   | 70.70  | 17.92 |      | 80.0 |         |
|           |                                                                     | Z | 5.04   | 71.43  | 18.23 |      | 80.0 |         |
| 10491-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.86   | 76.76  | 20.26 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.24   | 73.06  | 18.71 |      | 80.0 |         |
|           |                                                                     | Z | 5.62   | 74.06  | 19.10 |      | 80.0 |         |
| 10492-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.94   | 72.49  | 19.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.00   | 70.16  | 17.89 |      | 80.0 |         |
|           |                                                                     | Z | 5.23   | 70.83  | 18.17 |      | 80.0 |         |



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|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.97 | 72.20 | 18.93 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.06 | 70.00 | 17.85 |      | 80.0 |         |
|           |                                                                      | Z | 5.29 | 70.64 | 18.12 |      | 80.0 |         |
| 10494-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.84 | 78.92 | 20.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.71 | 74.54 | 19.11 |      | 80.0 |         |
|           |                                                                      | Z | 6.18 | 75.67 | 19.52 |      | 80.0 |         |
| 10495-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.11 | 73.22 | 19.25 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.08 | 70.66 | 18.08 |      | 80.0 |         |
|           |                                                                      | Z | 5.33 | 71.38 | 18.37 |      | 80.0 |         |
| 10496-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.09 | 72.66 | 19.08 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.13 | 70.32 | 17.99 |      | 80.0 |         |
|           |                                                                      | Z | 5.36 | 70.99 | 18.26 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.88 | 79.99 | 20.26 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.88 | 72.23 | 16.75 |      | 80.0 |         |
|           |                                                                      | Z | 4.39 | 73.84 | 17.47 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.24 | 73.44 | 17.21 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.35 | 67.80 | 14.16 |      | 80.0 |         |
|           |                                                                      | Z | 3.69 | 69.00 | 14.79 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.20 | 73.01 | 16.94 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.32 | 67.40 | 13.88 |      | 80.0 |         |
|           |                                                                      | Z | 3.66 | 68.60 | 14.51 |      | 80.0 |         |
| 10500-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.45 | 80.46 | 21.41 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.97 | 74.86 | 19.10 |      | 80.0 |         |
|           |                                                                      | Z | 5.50 | 76.26 | 19.64 |      | 80.0 |         |
| 10501-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.84 | 74.32 | 19.17 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.58 | 71.12 | 17.56 |      | 80.0 |         |
|           |                                                                      | Z | 4.87 | 71.94 | 17.92 |      | 80.0 |         |
| 10502-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.84 | 73.94 | 19.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.63 | 70.93 | 17.45 |      | 80.0 |         |
|           |                                                                      | Z | 4.90 | 71.71 | 17.80 |      | 80.0 |         |
| 10503-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.46 | 79.74 | 21.26 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.17 | 74.65 | 19.21 |      | 80.0 |         |
|           |                                                                      | Z | 5.67 | 75.96 | 19.71 |      | 80.0 |         |
| 10504-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.83 | 73.79 | 19.34 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.69 | 70.87 | 17.94 |      | 80.0 |         |
|           |                                                                      | Z | 4.96 | 71.66 | 18.27 |      | 80.0 |         |
| 10505-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.83 | 73.28 | 19.17 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.77 | 70.62 | 17.87 |      | 80.0 |         |
|           |                                                                      | Z | 5.02 | 71.36 | 18.19 |      | 80.0 |         |
| 10506-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 7.78 | 78.78 | 20.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.67 | 74.41 | 19.05 |      | 80.0 |         |
|           |                                                                      | Z | 6.14 | 75.55 | 19.46 |      | 80.0 |         |
| 10507-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 6.09 | 73.16 | 19.22 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.06 | 70.61 | 18.04 |      | 80.0 |         |
|           |                                                                      | Z | 5.31 | 71.32 | 18.34 |      | 80.0 |         |

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|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.07 | 72.60 | 19.05 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.12 | 70.27 | 17.95 |      | 80.0  |         |
|           |                                                                     | Z | 5.35 | 70.94 | 18.23 |      | 80.0  |         |
| 10509-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 7.28 | 75.99 | 19.77 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.79 | 72.84 | 18.47 |      | 80.0  |         |
|           |                                                                     | Z | 6.14 | 73.69 | 18.78 |      | 80.0  |         |
| 10510-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.43 | 72.37 | 18.95 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.52 | 70.24 | 17.97 |      | 80.0  |         |
|           |                                                                     | Z | 5.75 | 70.87 | 18.22 |      | 80.0  |         |
| 10511-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.40 | 71.93 | 18.84 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.54 | 69.94 | 17.91 |      | 80.0  |         |
|           |                                                                     | Z | 5.76 | 70.54 | 18.15 |      | 80.0  |         |
| 10512-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 8.17 | 78.44 | 20.51 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.14 | 74.43 | 18.93 |      | 80.0  |         |
|           |                                                                     | Z | 6.60 | 75.48 | 19.31 |      | 80.0  |         |
| 10513-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.46 | 73.08 | 19.20 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.44 | 70.66 | 18.11 |      | 80.0  |         |
|           |                                                                     | Z | 5.69 | 71.35 | 18.39 |      | 80.0  |         |
| 10514-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.33 | 72.39 | 19.00 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.41 | 70.18 | 17.99 |      | 80.0  |         |
|           |                                                                     | Z | 5.64 | 70.82 | 18.25 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.00 | 64.16 | 15.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.92 | 62.40 | 13.91 |      | 150.0 |         |
|           |                                                                     | Z | 0.95 | 62.82 | 14.27 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 1.25 | 84.84 | 23.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.48 | 66.58 | 14.30 |      | 150.0 |         |
|           |                                                                     | Z | 0.54 | 68.43 | 15.58 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.91 | 67.48 | 17.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.76 | 63.84 | 14.12 |      | 150.0 |         |
|           |                                                                     | Z | 0.80 | 64.54 | 14.68 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.79 | 66.99 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.65 | 66.57 | 16.07 |      | 150.0 |         |
|           |                                                                     | Z | 4.68 | 66.70 | 16.15 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 5.05 | 67.33 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.88 | 66.89 | 16.23 |      | 150.0 |         |
|           |                                                                     | Z | 4.91 | 67.02 | 16.30 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.89 | 67.32 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.72 | 66.85 | 16.14 |      | 150.0 |         |
|           |                                                                     | Z | 4.76 | 66.99 | 16.22 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.82 | 67.34 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.65 | 66.85 | 16.12 |      | 150.0 |         |
|           |                                                                     | Z | 4.69 | 66.99 | 16.20 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.84 | 67.19 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.69 | 66.80 | 16.15 |      | 150.0 |         |
|           |                                                                     | Z | 4.72 | 66.93 | 16.21 |      | 150.0 |         |

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|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.72 | 67.17 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.70 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 4.60 | 66.84 | 16.07 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.81 | 67.19 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.65 | 66.78 | 16.14 |      | 150.0 |         |
|           |                                                            | Z | 4.68 | 66.91 | 16.21 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.74 | 66.22 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.60 | 65.79 | 15.72 |      | 150.0 |         |
|           |                                                            | Z | 4.63 | 65.93 | 15.79 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.97 | 66.65 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.80 | 66.20 | 15.87 |      | 150.0 |         |
|           |                                                            | Z | 4.84 | 66.34 | 15.94 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.89 | 66.66 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.71 | 66.17 | 15.82 |      | 150.0 |         |
|           |                                                            | Z | 4.75 | 66.31 | 15.89 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.91 | 66.68 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.73 | 66.19 | 15.85 |      | 150.0 |         |
|           |                                                            | Z | 4.77 | 66.34 | 15.93 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.91 | 66.68 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.73 | 66.19 | 15.85 |      | 150.0 |         |
|           |                                                            | Z | 4.77 | 66.34 | 15.93 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.94 | 66.85 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.34 | 15.88 |      | 150.0 |         |
|           |                                                            | Z | 4.79 | 66.49 | 15.95 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.78 | 66.78 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.59 | 66.20 | 15.82 |      | 150.0 |         |
|           |                                                            | Z | 4.63 | 66.36 | 15.90 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.92 | 66.68 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.20 | 15.83 |      | 150.0 |         |
|           |                                                            | Z | 4.78 | 66.35 | 15.90 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.41 | 66.88 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.26 | 66.41 | 15.95 |      | 150.0 |         |
|           |                                                            | Z | 5.28 | 66.54 | 16.01 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.49 | 67.03 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.33 | 66.55 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 5.36 | 66.69 | 16.06 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.34 | 67.01 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.19 | 66.53 | 15.97 |      | 150.0 |         |
|           |                                                            | Z | 5.22 | 66.66 | 16.03 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.41 | 66.96 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.26 | 66.51 | 15.97 |      | 150.0 |         |
|           |                                                            | Z | 5.29 | 66.64 | 16.03 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.55 | 67.08 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.38 | 66.61 | 16.06 |      | 150.0 |         |
|           |                                                            | Z | 5.41 | 66.74 | 16.12 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.42 | 66.98 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.27 | 66.54 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 5.30 | 66.66 | 16.09 |      | 150.0 |         |

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|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.43 | 67.00 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.26 | 66.46 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 5.29 | 66.61 | 16.06 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.56 | 66.93 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.41 | 66.50 | 16.03 |      | 150.0 |         |
|           |                                                    | Z | 5.44 | 66.62 | 16.09 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.68 | 67.01 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.50 | 66.51 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.53 | 66.65 | 16.11 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.65 | 66.96 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.53 | 66.53 | 15.94 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 66.65 | 16.00 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.87 | 67.32 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 66.96 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.77 | 67.06 | 16.14 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.78 | 67.30 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.63 | 66.83 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.66 | 66.96 | 16.11 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.88 | 67.41 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.72 | 66.90 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.75 | 67.03 | 16.13 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 6.20 | 68.48 | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.10 | 68.18 | 16.69 |      | 150.0 |         |
|           |                                                    | Z | 6.08 | 68.17 | 16.68 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.79 | 67.22 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.65 | 66.77 | 16.03 |      | 150.0 |         |
|           |                                                    | Z | 5.68 | 66.90 | 16.08 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.82 | 67.34 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.68 | 66.90 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.70 | 67.02 | 16.10 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.71 | 67.10 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.57 | 66.63 | 15.94 |      | 150.0 |         |
|           |                                                    | Z | 5.60 | 66.76 | 16.00 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.81 | 67.12 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.66 | 66.67 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 5.69 | 66.81 | 16.04 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 6.05 | 67.35 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.93 | 66.93 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.95 | 67.05 | 16.10 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.24 | 67.80 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.09 | 67.30 | 16.21 |      | 150.0 |         |
|           |                                                    | Z | 6.12 | 67.42 | 16.26 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.22 | 67.70 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.10 | 67.29 | 16.20 |      | 150.0 |         |
|           |                                                    | Z | 6.12 | 67.40 | 16.24 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.23 | 67.72 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.09 | 67.27 | 16.21 |      | 150.0 |         |
|           |                                                    | Z | 6.11 | 67.40 | 16.26 |      | 150.0 |         |

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|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 6.29   | 67.93  | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.16   | 67.48  | 16.33 |      | 150.0 |         |
|           |                                                                 | Z | 6.18   | 67.60  | 16.38 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.30   | 67.80  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.14   | 67.29  | 16.27 |      | 150.0 |         |
|           |                                                                 | Z | 6.17   | 67.42  | 16.33 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 6.20   | 67.71  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.05   | 67.24  | 16.29 |      | 150.0 |         |
|           |                                                                 | Z | 6.08   | 67.37  | 16.34 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.38   | 68.26  | 16.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.24   | 67.80  | 16.57 |      | 150.0 |         |
|           |                                                                 | Z | 6.25   | 67.90  | 16.61 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.59   | 68.41  | 16.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.53   | 68.21  | 16.72 |      | 150.0 |         |
|           |                                                                 | Z | 6.52   | 68.24  | 16.73 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 5.14   | 67.16  | 16.65 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.00   | 66.75  | 16.29 |      | 150.0 |         |
|           |                                                                 | Z | 5.03   | 66.89  | 16.37 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.43   | 67.66  | 16.97 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.27   | 67.25  | 16.63 |      | 150.0 |         |
|           |                                                                 | Z | 5.30   | 67.37  | 16.69 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.26   | 67.56  | 16.81 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.10   | 67.12  | 16.45 |      | 150.0 |         |
|           |                                                                 | Z | 5.13   | 67.25  | 16.52 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.28   | 67.90  | 17.11 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.12   | 67.47  | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 5.15   | 67.58  | 16.82 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 5.17   | 67.25  | 16.56 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.01   | 66.85  | 16.21 |      | 150.0 |         |
|           |                                                                 | Z | 5.04   | 66.99  | 16.29 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.21   | 67.87  | 17.10 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.05   | 67.47  | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 5.08   | 67.57  | 16.82 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.25   | 67.68  | 17.04 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.10   | 67.32  | 16.72 |      | 150.0 |         |
|           |                                                                 | Z | 5.13   | 67.43  | 16.78 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.53   | 68.13  | 17.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.30   | 65.13  | 15.48 |      | 130.0 |         |
|           |                                                                 | Z | 1.36   | 65.83  | 15.92 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.57   | 68.96  | 17.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.32   | 65.68  | 15.79 |      | 130.0 |         |
|           |                                                                 | Z | 1.38   | 66.42  | 16.25 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 142.62 | 37.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.03   | 80.49  | 20.06 |      | 130.0 |         |
|           |                                                                 | Z | 3.14   | 87.00  | 22.48 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 2.27   | 78.89  | 22.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.48   | 70.93  | 18.18 |      | 130.0 |         |
|           |                                                                 | Z | 1.61   | 72.27  | 18.87 |      | 130.0 |         |

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|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.97 | 67.04 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 66.64 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.86 | 66.77 | 16.47 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.99 | 67.19 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.85 | 66.79 | 16.46 |      | 130.0 |         |
|           |                                                                 | Z | 4.88 | 66.91 | 16.52 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.26 | 67.55 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.09 | 67.14 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 5.12 | 67.26 | 16.71 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 5.15 | 67.72 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.98 | 67.29 | 16.73 |      | 130.0 |         |
|           |                                                                 | Z | 5.01 | 67.40 | 16.78 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.95 | 67.23 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 66.70 | 16.12 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 66.87 | 16.22 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.99 | 67.14 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 66.66 | 16.11 |      | 130.0 |         |
|           |                                                                 | Z | 4.85 | 66.82 | 16.21 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 5.08 | 67.89 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 67.37 | 16.68 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 67.50 | 16.74 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.91 | 66.98 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.72 | 66.46 | 15.92 |      | 130.0 |         |
|           |                                                                 | Z | 4.77 | 66.65 | 16.04 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.97 | 67.04 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 66.64 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.86 | 66.77 | 16.47 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.99 | 67.19 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.85 | 66.79 | 16.46 |      | 130.0 |         |
|           |                                                                 | Z | 4.88 | 66.91 | 16.52 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.26 | 67.55 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.09 | 67.14 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 5.12 | 67.26 | 16.71 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 5.15 | 67.72 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.98 | 67.29 | 16.73 |      | 130.0 |         |
|           |                                                                 | Z | 5.01 | 67.40 | 16.78 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.95 | 67.23 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 66.70 | 16.12 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 66.87 | 16.22 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.99 | 67.14 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 66.66 | 16.11 |      | 130.0 |         |
|           |                                                                 | Z | 4.85 | 66.82 | 16.21 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 5.08 | 67.89 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 67.37 | 16.68 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 67.50 | 16.74 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.91 | 66.98 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.72 | 66.46 | 15.92 |      | 130.0 |         |
|           |                                                                 | Z | 4.77 | 66.65 | 16.04 |      | 130.0 |         |



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|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 5.11 | 67.08 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.98 | 66.71 | 16.50 |      | 130.0 |         |
|           |                                                       | Z | 5.00 | 66.83 | 16.57 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.31 | 67.43 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.15 | 67.05 | 16.62 |      | 130.0 |         |
|           |                                                       | Z | 5.18 | 67.17 | 16.68 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.25 | 67.44 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.09 | 67.01 | 16.53 |      | 130.0 |         |
|           |                                                       | Z | 5.12 | 67.14 | 16.60 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.29 | 67.54 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.13 | 67.14 | 16.67 |      | 130.0 |         |
|           |                                                       | Z | 5.17 | 67.26 | 16.73 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.29 | 67.57 | 16.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.12 | 67.13 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 5.15 | 67.26 | 16.65 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 5.22 | 67.54 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.05 | 67.11 | 16.57 |      | 130.0 |         |
|           |                                                       | Z | 5.08 | 67.25 | 16.64 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 5.18 | 67.53 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.00 | 67.06 | 16.48 |      | 130.0 |         |
|           |                                                       | Z | 5.04 | 67.20 | 16.56 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 5.16 | 67.79 | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.98 | 67.30 | 16.73 |      | 130.0 |         |
|           |                                                       | Z | 5.01 | 67.43 | 16.80 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.79 | 67.75 | 17.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.65 | 67.37 | 16.73 |      | 130.0 |         |
|           |                                                       | Z | 5.67 | 67.45 | 16.77 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 6.05 | 68.52 | 17.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.91 | 68.14 | 17.10 |      | 130.0 |         |
|           |                                                       | Z | 5.92 | 68.21 | 17.13 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.87 | 68.05 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.73 | 67.66 | 16.87 |      | 130.0 |         |
|           |                                                       | Z | 5.74 | 67.74 | 16.90 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 6.00 | 68.19 | 17.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.82 | 67.69 | 16.81 |      | 130.0 |         |
|           |                                                       | Z | 5.85 | 67.81 | 16.86 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 6.11 | 68.53 | 17.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.93 | 68.06 | 17.11 |      | 130.0 |         |
|           |                                                       | Z | 5.96 | 68.18 | 17.17 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.81 | 67.77 | 17.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.66 | 67.35 | 16.75 |      | 130.0 |         |
|           |                                                       | Z | 5.68 | 67.45 | 16.79 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.92 | 68.05 | 17.21 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.78 | 67.66 | 16.91 |      | 130.0 |         |
|           |                                                       | Z | 5.79 | 67.76 | 16.95 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.67 | 67.50 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.55 | 67.13 | 16.51 |      | 130.0 |         |
|           |                                                       | Z | 5.57 | 67.26 | 16.58 |      | 130.0 |         |

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|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.93 | 66.35 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.79 | 65.95 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 4.82 | 66.07 | 16.14 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 5.18 | 66.78 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.01 | 66.38 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 5.04 | 66.50 | 16.30 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 5.07 | 66.72 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.90 | 66.26 | 16.10 |      | 130.0 |         |
|           |                                                   | Z | 4.93 | 66.40 | 16.18 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 5.12 | 66.86 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.95 | 66.41 | 16.26 |      | 130.0 |         |
|           |                                                   | Z | 4.99 | 66.54 | 16.32 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 5.06 | 66.76 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.88 | 66.26 | 16.13 |      | 130.0 |         |
|           |                                                   | Z | 4.92 | 66.40 | 16.20 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 5.08 | 66.88 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.90 | 66.40 | 16.16 |      | 130.0 |         |
|           |                                                   | Z | 4.93 | 66.54 | 16.23 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 5.10 | 66.83 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.91 | 66.34 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 4.95 | 66.49 | 16.15 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 5.02 | 67.04 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.84 | 66.50 | 16.28 |      | 130.0 |         |
|           |                                                   | Z | 4.87 | 66.64 | 16.35 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 5.06 | 66.55 | 16.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.88 | 66.08 | 15.91 |      | 130.0 |         |
|           |                                                   | Z | 4.92 | 66.23 | 16.00 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.60 | 66.99 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.45 | 66.57 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 5.48 | 66.68 | 16.36 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.68 | 67.14 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.52 | 66.69 | 16.33 |      | 130.0 |         |
|           |                                                   | Z | 5.54 | 66.80 | 16.38 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.55 | 67.17 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.41 | 66.74 | 16.38 |      | 130.0 |         |
|           |                                                   | Z | 5.43 | 66.85 | 16.43 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.57 | 66.98 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.43 | 66.56 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 5.45 | 66.68 | 16.28 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.73 | 67.19 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.56 | 66.71 | 16.35 |      | 130.0 |         |
|           |                                                   | Z | 5.59 | 66.83 | 16.41 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.68 | 67.17 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.52 | 66.74 | 16.48 |      | 130.0 |         |
|           |                                                   | Z | 5.55 | 66.85 | 16.52 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.66 | 67.24 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.52 | 66.85 | 16.52 |      | 130.0 |         |
|           |                                                   | Z | 5.54 | 66.94 | 16.56 |      | 130.0 |         |

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|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.60 | 67.04 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.42 | 66.47 | 16.23 |      | 130.0 |         |
|           |                                                    | Z | 5.45 | 66.63 | 16.30 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.74 | 67.00 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.60 | 66.62 | 16.37 |      | 130.0 |         |
|           |                                                    | Z | 5.62 | 66.73 | 16.41 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 6.06 | 67.73 | 17.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.03 | 67.72 | 16.96 |      | 130.0 |         |
|           |                                                    | Z | 6.01 | 67.70 | 16.95 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.82 | 67.00 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.70 | 66.60 | 16.25 |      | 130.0 |         |
|           |                                                    | Z | 5.72 | 66.71 | 16.29 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 6.07 | 67.45 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.98 | 67.19 | 16.49 |      | 130.0 |         |
|           |                                                    | Z | 5.98 | 67.25 | 16.51 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.92 | 67.24 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.78 | 66.81 | 16.25 |      | 130.0 |         |
|           |                                                    | Z | 5.80 | 66.93 | 16.30 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 6.03 | 67.37 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.88 | 66.90 | 16.29 |      | 130.0 |         |
|           |                                                    | Z | 5.90 | 67.04 | 16.35 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.63 | 69.29 | 17.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.54 | 69.01 | 17.33 |      | 130.0 |         |
|           |                                                    | Z | 6.50 | 68.95 | 17.31 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 6.51 | 69.00 | 17.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.33 | 68.48 | 17.25 |      | 130.0 |         |
|           |                                                    | Z | 6.33 | 68.53 | 17.26 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 6.09 | 67.66 | 16.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.94 | 67.24 | 16.65 |      | 130.0 |         |
|           |                                                    | Z | 5.96 | 67.32 | 16.68 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 6.06 | 67.60 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 67.12 | 16.43 |      | 130.0 |         |
|           |                                                    | Z | 5.93 | 67.25 | 16.46 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 6.02 | 67.54 | 16.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.86 | 67.06 | 16.46 |      | 130.0 |         |
|           |                                                    | Z | 5.89 | 67.19 | 16.51 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.91 | 66.93 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 66.41 | 15.88 |      | 130.0 |         |
|           |                                                    | Z | 5.78 | 66.58 | 15.97 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.22 | 67.39 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.11 | 67.02 | 16.36 |      | 130.0 |         |
|           |                                                    | Z | 6.13 | 67.12 | 16.40 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.45 | 67.92 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.30 | 67.45 | 16.56 |      | 130.0 |         |
|           |                                                    | Z | 6.32 | 67.56 | 16.60 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.39 | 67.74 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.29 | 67.39 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 6.30 | 67.48 | 16.54 |      | 130.0 |         |

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|-----------|--------------------------------------------------------|---|-------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.42  | 67.83  | 16.85 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.30  | 67.43  | 16.57 |       | 130.0 |         |
|           |                                                        | Z | 6.31  | 67.53  | 16.61 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.47  | 67.96  | 16.87 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.34  | 67.55  | 16.58 |       | 130.0 |         |
|           |                                                        | Z | 6.36  | 67.66  | 16.63 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.45  | 67.66  | 16.73 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.31  | 67.23  | 16.44 |       | 130.0 |         |
|           |                                                        | Z | 6.33  | 67.35  | 16.49 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.54  | 68.02  | 17.07 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.38  | 67.54  | 16.75 |       | 130.0 |         |
|           |                                                        | Z | 6.40  | 67.66  | 16.80 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.35  | 67.70  | 16.83 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.22  | 67.26  | 16.52 |       | 130.0 |         |
|           |                                                        | Z | 6.24  | 67.39  | 16.57 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.63  | 68.54  | 17.28 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.48  | 68.05  | 16.94 |       | 130.0 |         |
|           |                                                        | Z | 6.49  | 68.15  | 16.98 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.83  | 68.64  | 17.26 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.78  | 68.45  | 17.08 |       | 130.0 |         |
|           |                                                        | Z | 6.76  | 68.46  | 17.09 |       | 130.0 |         |
| 10646-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 23.77 | 102.61 | 33.72 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 20.40 | 101.11 | 33.40 |       | 60.0  |         |
|           |                                                        | Z | 25.01 | 105.52 | 34.77 |       | 60.0  |         |
| 10647-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 25.18 | 104.62 | 34.47 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 20.97 | 102.45 | 33.94 |       | 60.0  |         |
|           |                                                        | Z | 26.28 | 107.39 | 35.47 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.99  | 67.29  | 14.09 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.72  | 63.04  | 10.75 |       | 150.0 |         |
|           |                                                        | Z | 0.77  | 63.65  | 11.35 |       | 150.0 |         |
| 10652-AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 5.04  | 69.84  | 18.09 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.43  | 68.06  | 17.08 |       | 80.0  |         |
|           |                                                        | Z | 4.58  | 68.58  | 17.32 |       | 80.0  |         |
| 10653-AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 5.45  | 69.00  | 18.04 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.93  | 67.54  | 17.22 |       | 80.0  |         |
|           |                                                        | Z | 5.06  | 68.00  | 17.43 |       | 80.0  |         |
| 10654-AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 5.34  | 68.69  | 18.02 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.86  | 67.25  | 17.22 |       | 80.0  |         |
|           |                                                        | Z | 4.99  | 67.71  | 17.43 |       | 80.0  |         |
| 10655-AAD | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 5.40  | 68.79  | 18.07 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.92  | 67.31  | 17.27 |       | 80.0  |         |
|           |                                                        | Z | 5.04  | 67.77  | 17.48 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 11.03 | 81.69  | 22.20 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 10.59 | 82.32  | 22.47 |       | 50.0  |         |
|           |                                                        | Z | 10.99 | 82.66  | 22.36 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 14.51 | 87.74  | 22.90 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 15.68 | 90.34  | 23.71 |       | 60.0  |         |
|           |                                                        | Z | 16.52 | 90.51  | 23.53 |       | 60.0  |         |

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|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 115.63 | 28.65 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 116.20 | 28.51 |      | 80.0  |         |
|           |                             | Z | 100.00 | 115.23 | 28.10 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 116.29 | 27.42 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 115.47 | 26.60 |      | 100.0 |         |
|           |                             | Z | 100.00 | 114.98 | 26.47 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 121.88 | 27.79 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 114.69 | 24.28 |      | 120.0 |         |
|           |                             | Z | 100.00 | 116.25 | 25.08 |      | 120.0 |         |

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