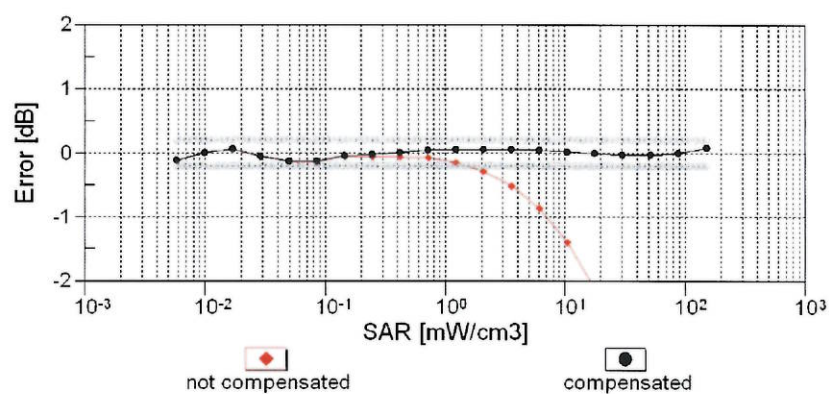
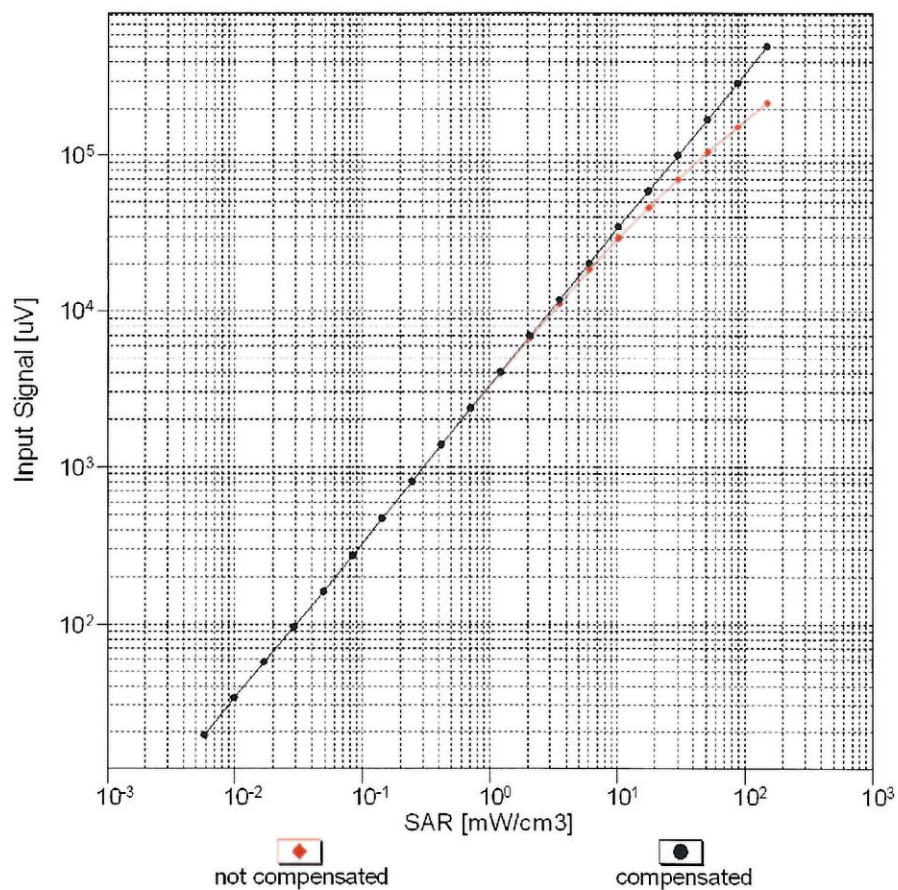
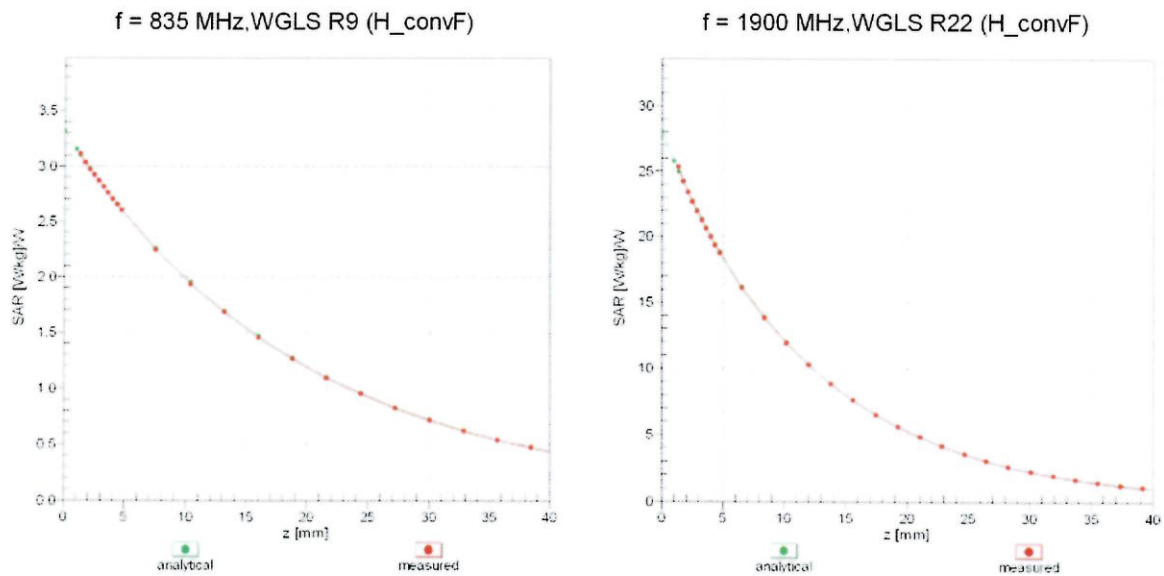


## Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$ )



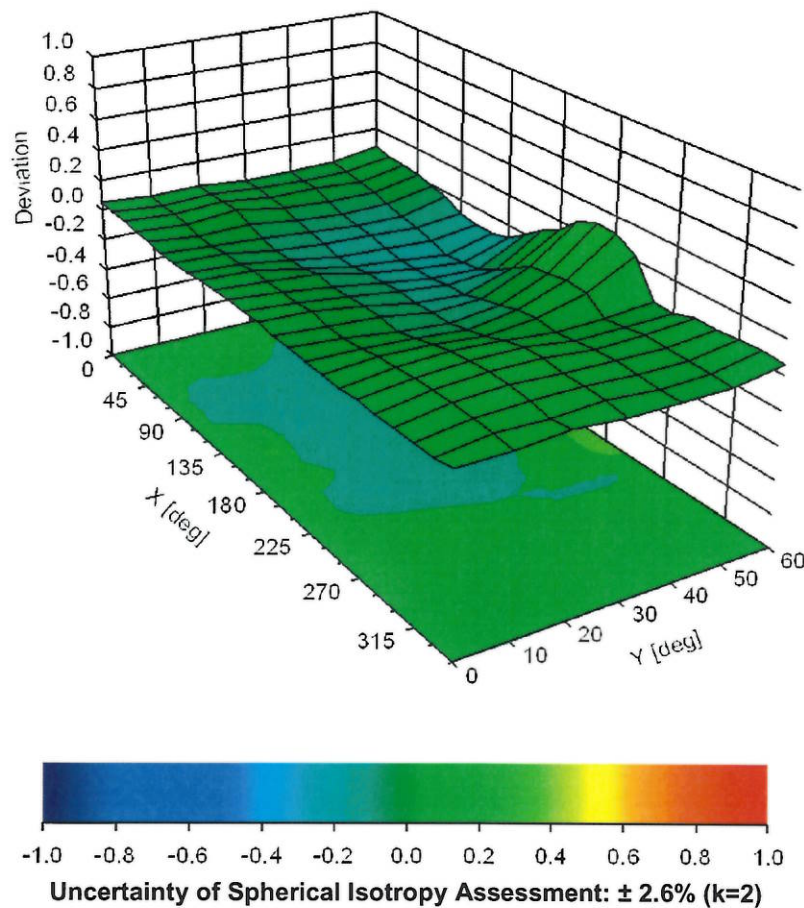
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7376

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 71         |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\mu$ V | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|-----------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00            | 1.00  | 0.00    | 153.9    | $\pm 3.5 \%$                     |
|               |                                               | Y | 0.00    | 0.00            | 1.00  |         | 141.2    |                                  |
|               |                                               | Z | 0.00    | 0.00            | 1.00  |         | 140.1    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 1.49    | 62.55           | 7.67  | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.52    | 62.64           | 7.86  |         | 20.0     |                                  |
|               |                                               | Z | 1.55    | 63.28           | 8.18  |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.09    | 69.38           | 16.33 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.91    | 66.08           | 14.17 |         | 150.0    |                                  |
|               |                                               | Z | 0.93    | 65.88           | 14.19 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.13    | 64.08           | 15.55 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.06    | 62.91           | 14.69 |         | 150.0    |                                  |
|               |                                               | Z | 1.11    | 63.03           | 14.59 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.71    | 66.73           | 17.09 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.76    | 66.42           | 17.05 |         | 150.0    |                                  |
|               |                                               | Z | 4.70    | 66.53           | 16.91 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 106.02          | 22.83 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 108.56          | 24.11 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 107.80          | 23.60 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 105.48          | 22.64 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 108.00          | 23.92 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 107.13          | 23.35 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 106.56          | 21.99 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 109.22          | 23.18 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 109.43          | 23.25 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 4.65    | 76.89           | 30.49 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 3.61    | 67.94           | 25.53 |         | 50.0     |                                  |
|               |                                               | Z | 5.33    | 82.13           | 33.60 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 6.47    | 87.15           | 31.68 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 6.03    | 84.83           | 30.81 |         | 60.0     |                                  |
|               |                                               | Z | 6.10    | 85.84           | 31.37 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 109.20          | 22.38 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 110.46          | 22.86 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 112.79          | 23.95 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 114.10          | 23.75 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 110.93          | 22.30 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 117.59          | 25.28 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 4.14    | 76.39           | 25.86 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.00    | 75.27           | 25.47 |         | 80.0     |                                  |
|               |                                               | Z | 3.99    | 75.38           | 25.48 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 105.04          | 20.89 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 107.25          | 21.83 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 108.06          | 22.21 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 107.34          | 19.74 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.19    | 60.00           | 4.46  |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 111.69          | 21.61 |         | 100.0    |                                  |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 2.12 | 78.39 | 22.09 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 1.80 | 75.57 | 20.95 |      | 110.0 |         |
|           |                                                | Z | 1.67 | 73.19 | 19.63 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.53 | 66.79 | 16.57 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.57 | 66.42 | 16.45 |      | 100.0 |         |
|           |                                                | Z | 4.52 | 66.53 | 16.34 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.54 | 66.86 | 16.65 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.58 | 66.50 | 16.55 |      | 100.0 |         |
|           |                                                | Z | 4.53 | 66.60 | 16.43 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.79 | 67.07 | 16.85 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 66.77 | 16.79 |      | 100.0 |         |
|           |                                                | Z | 4.78 | 66.83 | 16.64 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.65 | 66.90 | 16.91 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.72 | 66.64 | 16.88 |      | 100.0 |         |
|           |                                                | Z | 4.64 | 66.67 | 16.72 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.66 | 66.88 | 17.05 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.73 | 66.64 | 17.05 |      | 100.0 |         |
|           |                                                | Z | 4.65 | 66.65 | 16.87 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 4.94 | 67.09 | 17.50 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.01 | 66.84 | 17.51 |      | 100.0 |         |
|           |                                                | Z | 4.93 | 66.91 | 17.35 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 4.95 | 66.99 | 17.65 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.04 | 66.81 | 17.71 |      | 100.0 |         |
|           |                                                | Z | 4.95 | 66.81 | 17.51 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.02 | 67.01 | 17.84 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.12 | 66.84 | 17.91 |      | 100.0 |         |
|           |                                                | Z | 5.02 | 66.85 | 17.71 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.79 | 66.76 | 17.36 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.84 | 66.48 | 17.35 |      | 100.0 |         |
|           |                                                | Z | 4.79 | 66.57 | 17.20 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.74 | 66.99 | 17.54 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.80 | 66.74 | 17.55 |      | 100.0 |         |
|           |                                                | Z | 4.73 | 66.79 | 17.38 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.78 | 67.10 | 17.84 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.84 | 66.86 | 17.86 |      | 100.0 |         |
|           |                                                | Z | 4.78 | 66.91 | 17.69 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.76 | 66.98 | 17.96 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.81 | 66.71 | 17.99 |      | 100.0 |         |
|           |                                                | Z | 4.76 | 66.80 | 17.83 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.77 | 66.97 | 18.21 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.83 | 66.74 | 18.27 |      | 90.0  |         |
|           |                                                | Z | 4.77 | 66.79 | 18.08 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.79 | 66.79 | 18.35 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.84 | 66.52 | 18.39 |      | 90.0  |         |
|           |                                                | Z | 4.79 | 66.64 | 18.24 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.81 | 66.85 | 18.44 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.86 | 66.57 | 18.48 |      | 90.0  |         |
|           |                                                | Z | 4.82 | 66.70 | 18.34 |      | 90.0  |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 2.95 | 67.82 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.89 | 66.86 | 15.59 |      | 150.0 |         |
|           |                                                | Z | 2.86 | 66.92 | 15.52 |      | 150.0 |         |
| 10113-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.75 | 69.37 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.62 | 67.79 | 15.82 |      | 150.0 |         |
|           |                                                | Z | 2.58 | 67.87 | 15.69 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.01 | 67.26 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.06 | 67.00 | 16.42 |      | 150.0 |         |
|           |                                                | Z | 4.99 | 66.99 | 16.31 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.26 | 67.32 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.33 | 67.10 | 16.49 |      | 150.0 |         |
|           |                                                | Z | 5.24 | 67.08 | 16.36 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.10 | 67.46 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.14 | 67.17 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 5.07 | 67.19 | 16.34 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.00 | 67.20 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.01 | 66.82 | 16.35 |      | 150.0 |         |
|           |                                                | Z | 4.98 | 66.94 | 16.30 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.33 | 67.50 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.42 | 67.33 | 16.61 |      | 150.0 |         |
|           |                                                | Z | 5.31 | 67.26 | 16.46 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.09 | 67.44 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.13 | 67.15 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 5.06 | 67.17 | 16.34 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.30 | 67.77 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.25 | 66.98 | 15.69 |      | 150.0 |         |
|           |                                                | Z | 3.23 | 67.04 | 15.64 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.43 | 67.90 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.38 | 67.12 | 15.88 |      | 150.0 |         |
|           |                                                | Z | 3.35 | 67.19 | 15.83 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 1.98 | 69.97 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.80 | 67.62 | 14.97 |      | 150.0 |         |
|           |                                                | Z | 1.76 | 67.48 | 14.80 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.50 | 70.25 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.27 | 67.95 | 14.99 |      | 150.0 |         |
|           |                                                | Z | 2.22 | 67.94 | 14.75 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.11 | 66.91 | 13.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.04 | 65.65 | 13.34 |      | 150.0 |         |
|           |                                                | Z | 1.98 | 65.58 | 13.05 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 0.94 | 63.26 | 9.74  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.94 | 62.46 | 9.48  |      | 150.0 |         |
|           |                                                | Z | 0.88 | 62.08 | 8.96  |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 1.26 | 62.34 | 8.22  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.49 | 63.97 | 10.09 |      | 150.0 |         |
|           |                                                | Z | 1.10 | 61.14 | 7.54  |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 1.37 | 63.09 | 8.72  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.69 | 65.37 | 10.93 |      | 150.0 |         |
|           |                                                | Z | 1.15 | 61.58 | 7.88  |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.14  | 77.81  | 22.26 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.42  | 74.21  | 21.06 |      | 150.0 |         |
|           |                                            | Z | 3.96  | 72.57  | 19.89 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.82  | 69.52  | 19.29 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.63  | 67.53  | 18.58 |      | 150.0 |         |
|           |                                            | Z | 2.46  | 66.40  | 17.53 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 4.39  | 78.60  | 22.89 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.33  | 72.72  | 20.81 |      | 150.0 |         |
|           |                                            | Z | 2.97  | 70.69  | 19.36 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.31  | 72.62  | 19.29 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.77  | 68.82  | 17.98 |      | 150.0 |         |
|           |                                            | Z | 2.54  | 67.54  | 16.90 |      | 150.0 |         |
| 10172-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 4.37  | 83.13  | 26.34 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.79  | 84.21  | 27.28 |      | 65.0  |         |
|           |                                            | Z | 3.84  | 79.67  | 24.81 |      | 65.0  |         |
| 10173-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 17.82 | 106.07 | 31.42 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 9.76  | 95.66  | 29.33 |      | 65.0  |         |
|           |                                            | Z | 5.67  | 85.07  | 24.86 |      | 65.0  |         |
| 10174-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 8.97  | 92.67  | 26.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.47  | 91.67  | 27.35 |      | 65.0  |         |
|           |                                            | Z | 5.11  | 82.43  | 23.31 |      | 65.0  |         |
| 10175-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.78  | 69.18  | 19.01 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.60  | 67.24  | 18.33 |      | 150.0 |         |
|           |                                            | Z | 2.44  | 66.18  | 17.32 |      | 150.0 |         |
| 10176-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 4.40  | 78.63  | 22.90 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.33  | 72.75  | 20.83 |      | 150.0 |         |
|           |                                            | Z | 2.97  | 70.71  | 19.37 |      | 150.0 |         |
| 10177-CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.80  | 69.33  | 19.11 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.62  | 67.38  | 18.42 |      | 150.0 |         |
|           |                                            | Z | 2.46  | 66.28  | 17.39 |      | 150.0 |         |
| 10178-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 4.35  | 78.38  | 22.77 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.30  | 72.55  | 20.71 |      | 150.0 |         |
|           |                                            | Z | 2.96  | 70.59  | 19.30 |      | 150.0 |         |
| 10179-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 3.79  | 75.41  | 20.93 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.02  | 70.68  | 19.27 |      | 150.0 |         |
|           |                                            | Z | 2.73  | 69.04  | 18.01 |      | 150.0 |         |
| 10180-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.30  | 72.55  | 19.24 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.76  | 68.76  | 17.93 |      | 150.0 |         |
|           |                                            | Z | 2.53  | 67.51  | 16.87 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.80  | 69.31  | 19.10 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.61  | 67.37  | 18.41 |      | 150.0 |         |
|           |                                            | Z | 2.45  | 66.27  | 17.39 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 4.34  | 78.34  | 22.76 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.30  | 72.53  | 20.70 |      | 150.0 |         |
|           |                                            | Z | 2.95  | 70.57  | 19.29 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.30  | 72.52  | 19.23 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.76  | 68.74  | 17.92 |      | 150.0 |         |
|           |                                            | Z | 2.53  | 67.49  | 16.86 |      | 150.0 |         |



|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.24  | 67.38  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.30  | 67.12  | 16.52 |      | 150.0 |         |
|           |                                           | Z | 5.23  | 67.13  | 16.41 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.01  | 67.29  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.03  | 66.93  | 16.33 |      | 150.0 |         |
|           |                                           | Z | 4.98  | 67.02  | 16.26 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.72  | 66.60  | 15.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.67  | 65.69  | 14.93 |      | 150.0 |         |
|           |                                           | Z | 2.65  | 65.82  | 14.76 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 20.51 | 108.83 | 32.32 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.57 | 97.32  | 29.97 |      | 65.0  |         |
|           |                                           | Z | 5.98  | 86.09  | 25.32 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 20.45 | 106.40 | 30.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 11.42 | 97.12  | 29.15 |      | 65.0  |         |
|           |                                           | Z | 6.10  | 85.29  | 24.33 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 5.84  | 89.17  | 28.60 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.32  | 86.78  | 28.36 |      | 65.0  |         |
|           |                                           | Z | 3.97  | 80.44  | 25.15 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 18.04 | 106.25 | 31.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.85  | 95.80  | 29.38 |      | 65.0  |         |
|           |                                           | Z | 5.72  | 85.17  | 24.90 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 17.70 | 103.78 | 29.92 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.48 | 95.45  | 28.54 |      | 65.0  |         |
|           |                                           | Z | 5.76  | 84.27  | 23.90 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 5.57  | 88.12  | 28.14 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.12  | 85.88  | 27.94 |      | 65.0  |         |
|           |                                           | Z | 3.85  | 79.82  | 24.82 |      | 65.0  |         |
| 10232-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 17.99 | 106.23 | 31.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.83  | 95.77  | 29.37 |      | 65.0  |         |
|           |                                           | Z | 5.71  | 85.15  | 24.90 |      | 65.0  |         |
| 10233-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 17.61 | 103.71 | 29.91 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.43 | 95.39  | 28.53 |      | 65.0  |         |
|           |                                           | Z | 5.74  | 84.24  | 23.89 |      | 65.0  |         |
| 10234-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 5.37  | 87.27  | 27.71 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.97  | 85.17  | 27.55 |      | 65.0  |         |
|           |                                           | Z | 3.77  | 79.31  | 24.50 |      | 65.0  |         |
| 10235-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 18.05 | 106.31 | 31.50 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.84  | 95.81  | 29.39 |      | 65.0  |         |
|           |                                           | Z | 5.71  | 85.17  | 24.91 |      | 65.0  |         |
| 10236-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 18.04 | 104.06 | 29.99 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.62 | 95.66  | 28.60 |      | 65.0  |         |
|           |                                           | Z | 5.81  | 84.41  | 23.94 |      | 65.0  |         |
| 10237-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 5.57  | 88.16  | 28.16 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.12  | 85.92  | 27.96 |      | 65.0  |         |
|           |                                           | Z | 3.85  | 79.84  | 24.84 |      | 65.0  |         |
| 10238-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 17.94 | 106.19 | 31.47 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.80  | 95.73  | 29.36 |      | 65.0  |         |
|           |                                           | Z | 5.69  | 85.12  | 24.89 |      | 65.0  |         |



|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 5.27 | 76.55 | 21.35 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.98 | 75.23 | 21.02 |      | 65.0 |         |
|           |                                             | Z | 4.98 | 75.35 | 20.82 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 2.69 | 66.04 | 11.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.33 | 69.29 | 14.56 |      | 65.0 |         |
|           |                                             | Z | 2.46 | 64.97 | 11.27 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 2.61 | 65.39 | 11.37 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.20 | 68.32 | 13.98 |      | 65.0 |         |
|           |                                             | Z | 2.42 | 64.48 | 10.91 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 2.55 | 68.59 | 13.86 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.78 | 69.95 | 15.19 |      | 65.0 |         |
|           |                                             | Z | 2.39 | 67.66 | 13.45 |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 4.26 | 72.86 | 18.42 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.17 | 72.35 | 18.68 |      | 65.0 |         |
|           |                                             | Z | 4.04 | 71.81 | 17.92 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 4.27 | 72.52 | 18.25 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.20 | 72.07 | 18.54 |      | 65.0 |         |
|           |                                             | Z | 4.07 | 71.53 | 17.78 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 5.24 | 79.68 | 21.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.84 | 78.27 | 21.41 |      | 65.0 |         |
|           |                                             | Z | 4.63 | 77.36 | 20.61 |      | 65.0 |         |
| 10262-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 4.77 | 74.47 | 20.45 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.60 | 73.56 | 20.40 |      | 65.0 |         |
|           |                                             | Z | 4.54 | 73.38 | 19.93 |      | 65.0 |         |
| 10263-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 4.53 | 72.27 | 19.07 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.44 | 71.61 | 19.12 |      | 65.0 |         |
|           |                                             | Z | 4.39 | 71.54 | 18.71 |      | 65.0 |         |
| 10264-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 5.61 | 80.20 | 22.51 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.16 | 78.56 | 22.15 |      | 65.0 |         |
|           |                                             | Z | 5.05 | 78.14 | 21.66 |      | 65.0 |         |
| 10265-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 4.78 | 71.99 | 19.50 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.67 | 71.26 | 19.40 |      | 65.0 |         |
|           |                                             | Z | 4.66 | 71.40 | 19.21 |      | 65.0 |         |
| 10266-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.12 | 73.02 | 20.33 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.99 | 72.19 | 20.20 |      | 65.0 |         |
|           |                                             | Z | 4.99 | 72.36 | 20.00 |      | 65.0 |         |
| 10267-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 5.56 | 77.35 | 21.50 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.25 | 76.03 | 21.15 |      | 65.0 |         |
|           |                                             | Z | 5.23 | 76.05 | 20.94 |      | 65.0 |         |
| 10268-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 5.40 | 71.96 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.29 | 71.25 | 19.80 |      | 65.0 |         |
|           |                                             | Z | 5.31 | 71.50 | 19.70 |      | 65.0 |         |
| 10269-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 5.41 | 71.58 | 19.79 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.30 | 70.86 | 19.66 |      | 65.0 |         |
|           |                                             | Z | 5.33 | 71.15 | 19.58 |      | 65.0 |         |
| 10270-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 5.50 | 74.45 | 20.41 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.28 | 73.43 | 20.14 |      | 65.0 |         |
|           |                                             | Z | 5.31 | 73.65 | 20.05 |      | 65.0 |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.61 | 65.26 | 17.65 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.73 | 65.06 | 17.62 |       | 50.0  |         |
|           |                                                                     | Z | 4.61 | 65.06 | 17.49 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.46 | 65.28 | 17.24 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.56 | 64.99 | 17.15 |       | 50.0  |         |
|           |                                                                     | Z | 4.44 | 65.04 | 17.03 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 3.87 | 65.95 | 18.42 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.03 | 66.15 | 18.69 |       | 35.0  |         |
|           |                                                                     | Z | 3.83 | 65.55 | 18.13 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.28 | 65.52 | 18.37 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.43 | 65.59 | 18.55 |       | 35.0  |         |
|           |                                                                     | Z | 4.26 | 65.26 | 18.17 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.14 | 65.49 | 18.25 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.30 | 65.63 | 18.46 |       | 35.0  |         |
|           |                                                                     | Z | 4.12 | 65.20 | 18.03 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.12 | 65.65 | 18.38 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.27 | 65.79 | 18.58 |       | 35.0  |         |
|           |                                                                     | Z | 4.09 | 65.35 | 18.15 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.30 | 65.64 | 18.48 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.47 | 65.77 | 18.69 |       | 35.0  |         |
|           |                                                                     | Z | 4.29 | 65.38 | 18.28 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.22 | 65.53 | 18.33 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.37 | 65.61 | 18.51 |       | 35.0  |         |
|           |                                                                     | Z | 4.20 | 65.26 | 18.13 |       | 35.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.09 | 69.60 | 16.70 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.92 | 68.08 | 15.81 |       | 150.0 |         |
|           |                                                                     | Z | 2.88 | 68.02 | 15.78 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 2.77 | 73.14 | 16.27 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.30 | 71.02 | 15.52 |       | 70.0  |         |
|           |                                                                     | Z | 2.47 | 71.82 | 15.95 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 5.65 | 85.95 | 24.00 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 4.67 | 82.91 | 23.03 |       | 30.0  |         |
|           |                                                                     | Z | 3.80 | 80.04 | 22.26 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.06 | 64.20 | 15.59 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.98 | 62.87 | 14.59 |       | 150.0 |         |
|           |                                                                     | Z | 1.04 | 63.00 | 14.51 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.44 | 66.81 | 16.35 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.47 | 66.40 | 16.20 |       | 150.0 |         |
|           |                                                                     | Z | 4.42 | 66.52 | 16.10 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.44 | 66.81 | 16.35 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.47 | 66.40 | 16.20 |       | 150.0 |         |
|           |                                                                     | Z | 4.42 | 66.52 | 16.10 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.54 | 67.16 | 16.37 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.57 | 66.72 | 16.18 |       | 150.0 |         |
|           |                                                                     | Z | 4.51 | 66.84 | 16.11 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.22 | 67.07 | 16.42 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.36 | 67.14 | 16.50 |       | 150.0 |         |
|           |                                                                     | Z | 5.20 | 66.85 | 16.23 |       | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.20   | 67.31  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.28   | 67.13  | 16.49 |      | 150.0 |         |
|           |                                                                | Z | 5.18   | 67.06  | 16.34 |      | 150.0 |         |
| 10430-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.33   | 72.45  | 18.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.14   | 70.84  | 18.03 |      | 150.0 |         |
|           |                                                                | Z | 4.05   | 70.88  | 17.75 |      | 150.0 |         |
| 10431-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.06   | 67.53  | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.07   | 66.93  | 16.03 |      | 150.0 |         |
|           |                                                                | Z | 4.00   | 67.06  | 15.93 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.37   | 67.33  | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.39   | 66.81  | 16.17 |      | 150.0 |         |
|           |                                                                | Z | 4.33   | 66.95  | 16.09 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.61   | 67.25  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.64   | 66.79  | 16.27 |      | 150.0 |         |
|           |                                                                | Z | 4.58   | 66.92  | 16.20 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.51   | 73.58  | 18.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.22   | 71.61  | 17.87 |      | 150.0 |         |
|           |                                                                | Z | 4.10   | 71.57  | 17.53 |      | 150.0 |         |
| 10435-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.04 | 30.19 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 132.75 | 34.46 |      | 80.0  |         |
|           |                                                                | Z | 4.95   | 85.64  | 20.66 |      | 80.0  |         |
| 10447-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.33   | 67.56  | 15.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.32   | 66.74  | 15.08 |      | 150.0 |         |
|           |                                                                | Z | 3.24   | 66.80  | 14.84 |      | 150.0 |         |
| 10448-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 3.92   | 67.33  | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.92   | 66.70  | 15.89 |      | 150.0 |         |
|           |                                                                | Z | 3.86   | 66.85  | 15.79 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.20   | 67.16  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.21   | 66.63  | 16.06 |      | 150.0 |         |
|           |                                                                | Z | 4.16   | 66.77  | 15.99 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.40   | 67.03  | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.41   | 66.55  | 16.11 |      | 150.0 |         |
|           |                                                                | Z | 4.37   | 66.70  | 16.05 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.17   | 67.51  | 14.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.17   | 66.71  | 14.51 |      | 150.0 |         |
|           |                                                                | Z | 3.05   | 66.64  | 14.18 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.15   | 68.02  | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.18   | 67.75  | 16.70 |      | 150.0 |         |
|           |                                                                | Z | 6.13   | 67.83  | 16.63 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.73   | 65.58  | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.71   | 65.06  | 15.83 |      | 150.0 |         |
|           |                                                                | Z | 3.72   | 65.28  | 15.77 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 4.01   | 72.23  | 17.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.80   | 70.55  | 16.99 |      | 150.0 |         |
|           |                                                                | Z | 3.64   | 70.29  | 16.46 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.99   | 69.33  | 18.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.98   | 68.55  | 18.09 |      | 150.0 |         |
|           |                                                                | Z | 4.81   | 68.39  | 17.62 |      | 150.0 |         |

|           |                                                                     |   |       |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10477-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.68  | 60.00  | 7.18  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.14  | 74.69  | 14.75 |      | 80.0 |         |
|           |                                                                     | Z | 0.68  | 60.00  | 7.60  |      | 80.0 |         |
| 10478-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.71  | 60.00  | 6.50  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.88  | 61.62  | 8.89  |      | 80.0 |         |
|           |                                                                     | Z | 0.70  | 60.00  | 6.94  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 14.94 | 98.61  | 26.34 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 16.95 | 102.32 | 28.51 |      | 80.0 |         |
|           |                                                                     | Z | 3.50  | 76.77  | 19.20 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 7.97  | 82.43  | 18.72 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 17.85 | 94.77  | 23.76 |      | 80.0 |         |
|           |                                                                     | Z | 2.57  | 69.15  | 14.13 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.09  | 73.88  | 15.39 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.82  | 85.73  | 20.61 |      | 80.0 |         |
|           |                                                                     | Z | 2.06  | 66.13  | 12.43 |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.23  | 69.92  | 15.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.11  | 68.84  | 15.22 |      | 80.0 |         |
|           |                                                                     | Z | 1.72  | 66.16  | 13.53 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.50  | 67.46  | 13.25 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.42  | 75.07  | 17.40 |      | 80.0 |         |
|           |                                                                     | Z | 1.81  | 63.45  | 11.29 |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.34  | 66.42  | 12.79 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.87  | 73.05  | 16.62 |      | 80.0 |         |
|           |                                                                     | Z | 1.78  | 62.99  | 11.05 |      | 80.0 |         |
| 10485-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.84  | 73.23  | 18.04 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.56  | 71.27  | 17.48 |      | 80.0 |         |
|           |                                                                     | Z | 2.23  | 69.21  | 16.21 |      | 80.0 |         |
| 10486-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.59  | 68.12  | 15.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.53  | 67.33  | 15.05 |      | 80.0 |         |
|           |                                                                     | Z | 2.27  | 65.96  | 13.94 |      | 80.0 |         |
| 10487-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.57  | 67.61  | 14.77 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.53  | 66.94  | 14.85 |      | 80.0 |         |
|           |                                                                     | Z | 2.28  | 65.64  | 13.76 |      | 80.0 |         |
| 10488-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.03  | 71.93  | 18.58 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.88  | 70.61  | 18.10 |      | 80.0 |         |
|           |                                                                     | Z | 2.66  | 69.39  | 17.32 |      | 80.0 |         |
| 10489-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.02  | 68.51  | 16.92 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.94  | 67.54  | 16.67 |      | 80.0 |         |
|           |                                                                     | Z | 2.82  | 67.03  | 16.11 |      | 80.0 |         |
| 10490-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.10  | 68.33  | 16.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.03  | 67.43  | 16.62 |      | 80.0 |         |
|           |                                                                     | Z | 2.91  | 66.96  | 16.08 |      | 80.0 |         |
| 10491-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.26  | 70.28  | 18.05 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.17  | 69.33  | 17.70 |      | 80.0 |         |
|           |                                                                     | Z | 3.00  | 68.57  | 17.16 |      | 80.0 |         |
| 10492-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.35  | 67.64  | 16.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.31  | 66.92  | 16.75 |      | 80.0 |         |
|           |                                                                     | Z | 3.21  | 66.64  | 16.36 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.44 | 67.61 | 17.02 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.40 | 66.95 | 16.84 |      | 80.0  |         |
|           |                                                                     | Z | 3.31 | 66.66 | 16.47 |      | 80.0  |         |
| 10509-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.87 | 70.39 | 17.96 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.77 | 69.53 | 17.63 |      | 80.0  |         |
|           |                                                                     | Z | 3.61 | 68.95 | 17.22 |      | 80.0  |         |
| 10510-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.83 | 67.53 | 17.10 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.80 | 66.98 | 16.94 |      | 80.0  |         |
|           |                                                                     | Z | 3.71 | 66.75 | 16.64 |      | 80.0  |         |
| 10511-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.89 | 67.33 | 17.04 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.86 | 66.77 | 16.88 |      | 80.0  |         |
|           |                                                                     | Z | 3.78 | 66.60 | 16.60 |      | 80.0  |         |
| 10512-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.01 | 71.86 | 18.44 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.87 | 70.90 | 18.06 |      | 80.0  |         |
|           |                                                                     | Z | 3.65 | 70.02 | 17.54 |      | 80.0  |         |
| 10513-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.71 | 67.71 | 17.19 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.68 | 67.16 | 17.02 |      | 80.0  |         |
|           |                                                                     | Z | 3.59 | 66.85 | 16.69 |      | 80.0  |         |
| 10514-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.75 | 67.34 | 17.07 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.72 | 66.80 | 16.91 |      | 80.0  |         |
|           |                                                                     | Z | 3.64 | 66.57 | 16.61 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.97 | 63.90 | 15.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.90 | 62.49 | 14.13 |      | 150.0 |         |
|           |                                                                     | Z | 0.95 | 62.67 | 14.12 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.80 | 76.75 | 20.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.50 | 68.45 | 15.36 |      | 150.0 |         |
|           |                                                                     | Z | 0.51 | 67.00 | 15.18 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.84 | 66.40 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.73 | 64.08 | 14.45 |      | 150.0 |         |
|           |                                                                     | Z | 0.78 | 64.01 | 14.42 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.40 | 66.98 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.42 | 66.48 | 16.10 |      | 150.0 |         |
|           |                                                                     | Z | 4.38 | 66.65 | 16.05 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.56 | 67.15 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.59 | 66.70 | 16.22 |      | 150.0 |         |
|           |                                                                     | Z | 4.53 | 66.83 | 16.14 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.42 | 67.10 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.44 | 66.64 | 16.13 |      | 150.0 |         |
|           |                                                                     | Z | 4.38 | 66.76 | 16.05 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.35 | 67.09 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.37 | 66.62 | 16.11 |      | 150.0 |         |
|           |                                                                     | Z | 4.32 | 66.73 | 16.03 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.41 | 67.21 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.43 | 66.75 | 16.22 |      | 150.0 |         |
|           |                                                                     | Z | 4.37 | 66.86 | 16.13 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 4.98 | 66.48 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.01 | 66.13 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 4.95 | 66.19 | 15.91 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.14 | 66.57 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.17 | 66.22 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.11 | 66.30 | 15.98 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.20 | 66.61 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.24 | 66.25 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.18 | 66.35 | 16.04 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.34 | 66.59 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.36 | 66.25 | 15.98 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.33 | 15.92 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.52 | 67.02 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.74 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.49 | 66.76 | 16.09 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.38 | 66.73 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.41 | 66.42 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.35 | 66.46 | 15.95 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.45 | 66.81 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.49 | 66.50 | 16.07 |      | 150.0 |         |
|           |                                                    | Z | 5.43 | 66.55 | 15.99 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.62 | 67.51 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 67.50 | 16.54 |      | 150.0 |         |
|           |                                                    | Z | 5.58 | 67.22 | 16.30 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.43 | 66.87 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.46 | 66.55 | 16.12 |      | 150.0 |         |
|           |                                                    | Z | 5.40 | 66.62 | 16.04 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.38 | 66.72 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.44 | 66.49 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.35 | 66.45 | 15.92 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.35 | 66.70 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.36 | 66.30 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.43 | 15.91 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.41 | 66.66 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.43 | 66.31 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 5.38 | 66.40 | 15.93 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.76 | 66.92 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.78 | 66.62 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.73 | 66.68 | 16.01 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.86 | 67.17 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.91 | 66.94 | 16.23 |      | 150.0 |         |
|           |                                                    | Z | 5.83 | 66.93 | 16.11 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.89 | 67.26 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.93 | 66.99 | 16.24 |      | 150.0 |         |
|           |                                                    | Z | 5.87 | 67.02 | 16.15 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.85 | 67.13 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.88 | 66.85 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.82 | 66.89 | 16.11 |      | 150.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.48 | 66.71 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.32 | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.47 | 66.44 | 16.21 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.51 | 66.91 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.50 | 16.38 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.63 | 16.28 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.68 | 67.15 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.78 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 66.87 | 16.43 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.59 | 67.31 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.63 | 66.92 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 4.56 | 66.99 | 16.53 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.34 | 66.49 | 16.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.15 | 15.92 |      | 130.0 |         |
|           |                                                                 | Z | 4.32 | 66.23 | 15.81 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.38 | 66.55 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 66.22 | 15.95 |      | 130.0 |         |
|           |                                                                 | Z | 4.36 | 66.30 | 15.84 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.50 | 67.38 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.95 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.47 | 67.04 | 16.48 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.27 | 66.25 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 65.92 | 15.70 |      | 130.0 |         |
|           |                                                                 | Z | 4.26 | 66.01 | 15.60 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.48 | 66.71 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.32 | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.47 | 66.44 | 16.21 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.51 | 66.91 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.50 | 16.38 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.63 | 16.28 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.68 | 67.15 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.78 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 66.87 | 16.43 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.59 | 67.31 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.63 | 66.92 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 4.56 | 66.99 | 16.53 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.34 | 66.49 | 16.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.15 | 15.92 |      | 130.0 |         |
|           |                                                                 | Z | 4.32 | 66.23 | 15.81 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.38 | 66.55 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 66.22 | 15.95 |      | 130.0 |         |
|           |                                                                 | Z | 4.36 | 66.30 | 15.84 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.50 | 67.38 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.95 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.47 | 67.04 | 16.48 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.27 | 66.25 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 65.92 | 15.70 |      | 130.0 |         |
|           |                                                                 | Z | 4.26 | 66.01 | 15.60 |      | 130.0 |         |



|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.49 | 66.16 | 16.21 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.51 | 65.72 | 16.05 |      | 130.0 |         |
|           |                                                   | Z | 4.47 | 65.86 | 15.96 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.64 | 66.51 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.68 | 66.10 | 16.21 |      | 130.0 |         |
|           |                                                   | Z | 4.61 | 66.19 | 16.11 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.54 | 66.34 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.57 | 65.93 | 16.03 |      | 130.0 |         |
|           |                                                   | Z | 4.51 | 66.03 | 15.93 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.59 | 66.51 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.62 | 66.10 | 16.20 |      | 130.0 |         |
|           |                                                   | Z | 4.56 | 66.19 | 16.10 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.50 | 66.31 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.54 | 65.90 | 16.05 |      | 130.0 |         |
|           |                                                   | Z | 4.47 | 65.99 | 15.94 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.50 | 66.44 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.54 | 66.04 | 16.09 |      | 130.0 |         |
|           |                                                   | Z | 4.46 | 66.12 | 15.98 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.49 | 66.26 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.54 | 65.90 | 15.95 |      | 130.0 |         |
|           |                                                   | Z | 4.46 | 65.96 | 15.84 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.46 | 66.50 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.49 | 66.09 | 16.19 |      | 130.0 |         |
|           |                                                   | Z | 4.42 | 66.15 | 16.07 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.49 | 66.13 | 15.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.53 | 65.73 | 15.82 |      | 130.0 |         |
|           |                                                   | Z | 4.47 | 65.84 | 15.73 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.13 | 66.48 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.18 | 66.19 | 16.28 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.23 | 16.17 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.19 | 66.64 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.26 | 66.44 | 16.38 |      | 130.0 |         |
|           |                                                   | Z | 5.17 | 66.39 | 16.23 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.09 | 66.71 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.14 | 66.42 | 16.38 |      | 130.0 |         |
|           |                                                   | Z | 5.07 | 66.44 | 16.26 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.10 | 66.48 | 16.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.15 | 66.20 | 16.21 |      | 130.0 |         |
|           |                                                   | Z | 5.08 | 66.24 | 16.10 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.18 | 66.49 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.24 | 66.24 | 16.28 |      | 130.0 |         |
|           |                                                   | Z | 5.16 | 66.26 | 16.16 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.19 | 66.63 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.25 | 66.38 | 16.47 |      | 130.0 |         |
|           |                                                   | Z | 5.17 | 66.37 | 16.33 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.18 | 66.74 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.26 | 66.54 | 16.54 |      | 130.0 |         |
|           |                                                   | Z | 5.16 | 66.47 | 16.38 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 5.99   | 67.12  | 16.54 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.05   | 66.93  | 16.50 |       | 130.0 |         |
|           |                                                        | Z | 5.98   | 66.91  | 16.37 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 5.97   | 67.06  | 16.45 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.05   | 66.93  | 16.44 |       | 130.0 |         |
|           |                                                        | Z | 5.96   | 66.86  | 16.29 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.05   | 67.08  | 16.48 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.13   | 66.95  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 6.04   | 66.90  | 16.33 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.08   | 67.29  | 16.76 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.14   | 67.11  | 16.72 |       | 130.0 |         |
|           |                                                        | Z | 6.06   | 67.08  | 16.59 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 5.92   | 66.99  | 16.50 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.00   | 66.84  | 16.48 |       | 130.0 |         |
|           |                                                        | Z | 5.91   | 66.80  | 16.34 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.00   | 67.23  | 16.64 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.10   | 67.18  | 16.67 |       | 130.0 |         |
|           |                                                        | Z | 5.98   | 67.02  | 16.47 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.13   | 67.28  | 16.63 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.29   | 67.37  | 16.73 |       | 130.0 |         |
|           |                                                        | Z | 6.12   | 67.09  | 16.47 |       | 130.0 |         |
| 10646-AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 9.60   | 100.15 | 35.24 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 9.35   | 98.61  | 35.11 |       | 60.0  |         |
|           |                                                        | Z | 7.53   | 94.04  | 33.11 |       | 60.0  |         |
| 10647-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 8.03   | 96.41  | 34.10 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 8.13   | 95.76  | 34.24 |       | 60.0  |         |
|           |                                                        | Z | 6.54   | 91.13  | 32.18 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.58   | 63.03  | 9.56  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.53   | 61.42  | 8.47  |       | 150.0 |         |
|           |                                                        | Z | 0.54   | 61.58  | 8.62  |       | 150.0 |         |
| 10652-AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.29   | 66.64  | 16.31 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.23   | 65.78  | 16.06 |       | 80.0  |         |
|           |                                                        | Z | 3.18   | 65.76  | 15.76 |       | 80.0  |         |
| 10653-AAD | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 3.81   | 65.82  | 16.47 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.78   | 65.22  | 16.30 |       | 80.0  |         |
|           |                                                        | Z | 3.75   | 65.30  | 16.12 |       | 80.0  |         |
| 10654-AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 3.82   | 65.42  | 16.48 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.78   | 64.87  | 16.32 |       | 80.0  |         |
|           |                                                        | Z | 3.77   | 64.96  | 16.16 |       | 80.0  |         |
| 10655-AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 3.89   | 65.35  | 16.51 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.85   | 64.84  | 16.36 |       | 80.0  |         |
|           |                                                        | Z | 3.84   | 64.91  | 16.20 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 5.96   | 75.11  | 14.21 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 14.21  | 85.12  | 17.92 |       | 50.0  |         |
|           |                                                        | Z | 12.03  | 83.02  | 16.94 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 101.69 | 20.11 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 104.13 | 21.23 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 103.71 | 20.99 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 101.30 | 18.74 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 100.83 | 18.47 |      | 80.0  |         |
|           |                             | Z | 100.00 | 104.54 | 20.15 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 101.60 | 17.86 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 90.88  | 13.42 |      | 100.0 |         |
|           |                             | Z | 100.00 | 106.12 | 19.79 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 90.84  | 12.60 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 17.25  | 60.40  | 1.37  |      | 120.0 |         |
|           |                             | Z | 100.00 | 104.25 | 17.84 |      | 120.0 |         |
| 10670-AAA | Bluetooth Low Energy        | X | 100.00 | 116.11 | 23.97 | 2.19 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 104.68 | 19.12 |      | 100.0 |         |
|           |                             | Z | 100.00 | 117.03 | 24.48 |      | 100.0 |         |

<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.