

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3650

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | -19.6      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | 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    | 148.9    | ± 3.3 %                          |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 131.8    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 146.8    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 1.63    | 63.01                  | 7.97  | 10.00   | 20.0     | ± 9.6 %                          |
|               |                                               | Y | 1.81    | 62.85                  | 8.32  |         | 20.0     |                                  |
|               |                                               | Z | 2.61    | 67.64                  | 11.02 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 2.17    | 83.31                  | 22.35 | 0.00    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 0.88    | 66.40                  | 14.12 |         | 150.0    |                                  |
|               |                                               | Z | 1.21    | 71.04                  | 17.38 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.21    | 66.64                  | 17.22 | 0.41    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.03    | 63.09                  | 14.69 |         | 150.0    |                                  |
|               |                                               | Z | 1.18    | 64.84                  | 16.17 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.52    | 67.54                  | 17.39 | 1.46    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 4.72    | 66.42                  | 16.97 |         | 150.0    |                                  |
|               |                                               | Z | 4.85    | 66.87                  | 17.28 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 106.28                 | 23.05 | 9.39    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 36.94   | 97.20                  | 21.84 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 113.90                 | 27.05 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 105.41                 | 22.71 | 9.57    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 15.19   | 86.91                  | 19.04 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 113.36                 | 26.86 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 107.19                 | 22.33 | 6.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 105.32                 | 21.93 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 115.23                 | 26.58 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 4.91    | 78.32                  | 30.95 | 12.57   | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 3.44    | 64.47                  | 22.44 |         | 50.0     |                                  |
|               |                                               | Z | 5.40    | 79.71                  | 31.67 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 6.20    | 86.65                  | 31.56 | 9.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 7.20    | 86.71                  | 30.49 |         | 60.0     |                                  |
|               |                                               | Z | 9.84    | 95.91                  | 34.81 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 112.47                 | 23.80 | 4.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 102.75                 | 19.99 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 118.55                 | 27.23 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 126.41                 | 28.80 | 3.55    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 99.28                  | 17.84 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 123.95                 | 28.78 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 4.09    | 76.79                  | 26.19 | 7.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 4.70    | 77.62                  | 25.75 |         | 80.0     |                                  |
|               |                                               | Z | 5.74    | 82.73                  | 28.46 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 104.97                 | 20.86 | 5.30    | 70.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 102.38                 | 20.14 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 114.55                 | 25.80 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 148.10                 | 35.31 | 1.88    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 0.25    | 60.00                  | 4.02  |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 128.83                 | 29.15 |         | 100.0    |                                  |

|           |                                                     |   |        |        |        |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|--------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 347.83 | 106.42 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 37.79  | 305.76 | 4.63   |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 154.91 | 38.00  |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 100.00 | 118.24 | 28.40  | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 7.89   | 88.17  | 22.60  |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 131.66 | 35.63  |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 27.51  | 98.14  | 20.81  | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.99   | 72.14  | 15.28  |       | 100.0 |         |
|           |                                                     | Z | 12.16  | 99.03  | 25.67  |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 7.77   | 85.82  | 17.22  | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.38   | 68.68  | 13.49  |       | 100.0 |         |
|           |                                                     | Z | 4.78   | 86.52  | 21.62  |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00 | 118.94 | 28.70  | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 11.67  | 94.17  | 24.52  |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 132.20 | 35.88  |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 7.16   | 84.89  | 17.39  | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.85   | 71.35  | 14.92  |       | 100.0 |         |
|           |                                                     | Z | 9.68   | 95.89  | 24.76  |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 14.31  | 92.43  | 19.20  | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.40   | 69.11  | 13.80  |       | 100.0 |         |
|           |                                                     | Z | 4.95   | 87.43  | 22.06  |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 1.61   | 71.97  | 12.34  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.26   | 67.65  | 12.53  |       | 150.0 |         |
|           |                                                     | Z | 3.32   | 80.95  | 19.15  |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 102.88 | 20.78  | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 3.94   | 72.53  | 12.92  |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 110.47 | 24.72  |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 122.94 | 1.65   | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.32   | 131.17 | 3.74   |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 113.60 | 4.10   |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 7.36   | 74.14  | 15.01  | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 6.43   | 73.09  | 15.81  |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 110.21 | 26.94  |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 11.64  | 81.72  | 16.59  | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 6.45   | 75.81  | 15.65  |       | 40.0  |         |
|           |                                                     | Z | 100.00 | 111.69 | 26.44  |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 82.79  | 112.74 | 27.70  | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 13.48  | 89.97  | 23.17  |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 124.98 | 33.80  |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 3.36   | 72.94  | 23.66  | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.73   | 73.43  | 23.20  |       | 100.0 |         |
|           |                                                     | Z | 4.39   | 77.09  | 25.26  |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.24   | 67.96  | 17.95  | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.05   | 64.03  | 15.22  |       | 110.0 |         |
|           |                                                     | Z | 1.23   | 66.19  | 16.95  |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 153.88 | 41.81  | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 13.60  | 107.18 | 27.29  |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 146.23 | 39.07  |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 4.25 | 92.64 | 27.51 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 2.24 | 78.00 | 21.09 |      | 110.0 |         |
|           |                                                | Z | 4.44 | 90.66 | 26.75 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.34 | 67.60 | 16.88 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.53 | 66.41 | 16.40 |      | 100.0 |         |
|           |                                                | Z | 4.66 | 66.90 | 16.72 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.35 | 67.71 | 16.98 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.54 | 66.49 | 16.49 |      | 100.0 |         |
|           |                                                | Z | 4.68 | 67.00 | 16.83 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.55 | 67.82 | 17.12 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.82 | 66.76 | 16.73 |      | 100.0 |         |
|           |                                                | Z | 4.96 | 67.24 | 17.04 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.42 | 67.59 | 17.17 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.68 | 66.63 | 16.81 |      | 100.0 |         |
|           |                                                | Z | 4.82 | 67.13 | 17.14 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.41 | 67.50 | 17.26 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.70 | 66.64 | 16.97 |      | 100.0 |         |
|           |                                                | Z | 4.84 | 67.15 | 17.31 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 4.65 | 67.64 | 17.64 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.99 | 66.84 | 17.42 |      | 100.0 |         |
|           |                                                | Z | 5.12 | 67.29 | 17.73 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 4.71 | 67.67 | 17.88 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.02 | 66.84 | 17.62 |      | 100.0 |         |
|           |                                                | Z | 5.16 | 67.31 | 17.95 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 4.74 | 67.57 | 17.98 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.10 | 66.86 | 17.81 |      | 100.0 |         |
|           |                                                | Z | 5.24 | 67.30 | 18.13 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.61 | 67.57 | 17.66 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.81 | 66.49 | 17.26 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 66.94 | 17.57 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.54 | 67.71 | 17.82 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.78 | 66.78 | 17.46 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 67.27 | 17.80 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.60 | 67.94 | 18.17 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.83 | 66.92 | 17.77 |      | 100.0 |         |
|           |                                                | Z | 4.97 | 67.41 | 18.13 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.64 | 67.99 | 18.37 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.82 | 66.80 | 17.90 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 67.28 | 18.26 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.66 | 67.99 | 18.60 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.85 | 66.88 | 18.18 |      | 90.0  |         |
|           |                                                | Z | 4.97 | 67.36 | 18.57 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.69 | 67.80 | 18.74 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.86 | 66.68 | 18.30 |      | 90.0  |         |
|           |                                                | Z | 4.98 | 67.12 | 18.67 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.73 | 67.92 | 18.87 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.89 | 66.75 | 18.40 |      | 90.0  |         |
|           |                                                | Z | 5.00 | 67.19 | 18.77 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.50   | 63.84  | 8.40  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.57   | 62.65  | 9.30  |      | 150.0 |         |
|           |                                                     | Z | 1.10   | 70.49  | 14.72 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.58   | 60.00  | 3.17  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.64   | 60.00  | 3.55  |      | 80.0  |         |
|           |                                                     | Z | 0.66   | 60.00  | 4.29  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 107.19 | 22.35 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 105.44 | 22.01 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 115.27 | 26.61 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 2.95   | 78.41  | 19.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.67   | 67.12  | 15.03 |      | 150.0 |         |
|           |                                                     | Z | 1.98   | 69.69  | 16.84 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 2.90   | 78.46  | 19.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.64   | 67.06  | 14.99 |      | 150.0 |         |
|           |                                                     | Z | 1.94   | 69.67  | 16.83 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 6.25   | 86.84  | 31.63 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 7.25   | 86.82  | 30.53 |      | 60.0  |         |
|           |                                                     | Z | 9.93   | 96.12  | 34.88 |      | 60.0  |         |
| 10100-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.31   | 73.67  | 18.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.92   | 69.59  | 16.23 |      | 150.0 |         |
|           |                                                     | Z | 3.34   | 71.87  | 17.57 |      | 150.0 |         |
| 10101-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.14   | 69.05  | 16.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.08   | 67.04  | 15.65 |      | 150.0 |         |
|           |                                                     | Z | 3.29   | 68.18  | 16.39 |      | 150.0 |         |
| 10102-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.23   | 69.02  | 17.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.19   | 67.05  | 15.77 |      | 150.0 |         |
|           |                                                     | Z | 3.39   | 68.10  | 16.46 |      | 150.0 |         |
| 10103-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 5.55   | 76.81  | 21.34 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.31   | 73.56  | 19.61 |      | 65.0  |         |
|           |                                                     | Z | 6.43   | 77.06  | 21.32 |      | 65.0  |         |
| 10104-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 5.16   | 72.90  | 20.23 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.44   | 71.84  | 19.66 |      | 65.0  |         |
|           |                                                     | Z | 6.12   | 74.09  | 20.85 |      | 65.0  |         |
| 10105-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 4.87   | 71.48  | 19.86 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.06   | 70.23  | 19.23 |      | 65.0  |         |
|           |                                                     | Z | 5.67   | 72.37  | 20.38 |      | 65.0  |         |
| 10108-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.90   | 73.75  | 18.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.54   | 68.92  | 16.08 |      | 150.0 |         |
|           |                                                     | Z | 2.91   | 71.12  | 17.43 |      | 150.0 |         |
| 10109-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.85   | 69.86  | 17.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.73   | 66.91  | 15.51 |      | 150.0 |         |
|           |                                                     | Z | 2.96   | 68.17  | 16.37 |      | 150.0 |         |
| 10110-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.52   | 74.77  | 18.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.02   | 68.04  | 15.58 |      | 150.0 |         |
|           |                                                     | Z | 2.37   | 70.41  | 17.15 |      | 150.0 |         |
| 10111-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 3.06   | 74.22  | 18.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.44   | 67.80  | 15.70 |      | 150.0 |         |
|           |                                                     | Z | 2.73   | 69.53  | 16.91 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 2.97 | 69.91 | 17.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.86 | 66.95 | 15.60 |      | 150.0 |         |
|           |                                                | Z | 3.08 | 68.12 | 16.40 |      | 150.0 |         |
| 10113-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 3.17 | 74.10 | 18.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.60 | 68.00 | 15.88 |      | 150.0 |         |
|           |                                                | Z | 2.89 | 69.61 | 17.00 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 4.81 | 67.73 | 16.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.02 | 67.00 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 5.12 | 67.42 | 16.63 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.03 | 67.77 | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.29 | 67.10 | 16.46 |      | 150.0 |         |
|           |                                                | Z | 5.40 | 67.49 | 16.67 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 4.88 | 67.92 | 16.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.10 | 67.17 | 16.41 |      | 150.0 |         |
|           |                                                | Z | 5.21 | 67.60 | 16.65 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 4.79 | 67.64 | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 66.82 | 16.33 |      | 150.0 |         |
|           |                                                | Z | 5.08 | 67.26 | 16.57 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.08 | 67.87 | 16.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.37 | 67.32 | 16.58 |      | 150.0 |         |
|           |                                                | Z | 5.48 | 67.69 | 16.78 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 4.89 | 67.94 | 16.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.09 | 67.15 | 16.41 |      | 150.0 |         |
|           |                                                | Z | 5.19 | 67.55 | 16.63 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.24 | 69.09 | 16.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.22 | 67.04 | 15.68 |      | 150.0 |         |
|           |                                                | Z | 3.43 | 68.10 | 16.38 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.38 | 69.32 | 17.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.35 | 67.19 | 15.88 |      | 150.0 |         |
|           |                                                | Z | 3.55 | 68.19 | 16.53 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.78 | 77.70 | 18.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.78 | 67.83 | 14.96 |      | 150.0 |         |
|           |                                                | Z | 2.19 | 70.89 | 17.01 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 3.25 | 75.92 | 17.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.25 | 68.16 | 15.01 |      | 150.0 |         |
|           |                                                | Z | 2.70 | 70.94 | 16.86 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 1.80 | 66.98 | 12.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.00 | 65.64 | 13.24 |      | 150.0 |         |
|           |                                                | Z | 2.33 | 67.78 | 14.84 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 0.49 | 60.00 | 5.40  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.87 | 62.02 | 8.97  |      | 150.0 |         |
|           |                                                | Z | 1.34 | 66.95 | 12.66 |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 0.51 | 57.53 | 2.90  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.47 | 63.32 | 9.50  |      | 150.0 |         |
|           |                                                | Z | 2.34 | 68.59 | 12.53 |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 0.70 | 60.00 | 4.63  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.61 | 64.36 | 10.16 |      | 150.0 |         |
|           |                                                | Z | 3.31 | 72.67 | 14.38 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.86 | 69.97 | 17.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.74 | 66.98 | 15.56 |      | 150.0 |         |
|           |                                            | Z | 2.97 | 68.24 | 16.43 |      | 150.0 |         |
| 10150-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 2.99 | 70.01 | 17.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.86 | 67.01 | 15.64 |      | 150.0 |         |
|           |                                            | Z | 3.09 | 68.18 | 16.45 |      | 150.0 |         |
| 10151-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.30 | 81.27 | 23.04 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.60 | 76.24 | 20.79 |      | 65.0  |         |
|           |                                            | Z | 7.05 | 80.47 | 22.80 |      | 65.0  |         |
| 10152-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 4.73 | 73.11 | 19.69 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.96 | 71.70 | 19.25 |      | 65.0  |         |
|           |                                            | Z | 5.69 | 74.23 | 20.63 |      | 65.0  |         |
| 10153-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 5.18 | 74.63 | 20.75 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.33 | 72.78 | 20.13 |      | 65.0  |         |
|           |                                            | Z | 6.07 | 75.23 | 21.43 |      | 65.0  |         |
| 10154-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.63 | 75.55 | 19.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.07 | 68.48 | 15.85 |      | 150.0 |         |
|           |                                            | Z | 2.44 | 70.95 | 17.46 |      | 150.0 |         |
| 10155-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 3.08 | 74.35 | 18.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.44 | 67.82 | 15.72 |      | 150.0 |         |
|           |                                            | Z | 2.74 | 69.55 | 16.93 |      | 150.0 |         |
| 10156-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.87 | 78.71 | 18.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.60 | 67.62 | 14.47 |      | 150.0 |         |
|           |                                            | Z | 2.08 | 71.45 | 16.99 |      | 150.0 |         |
| 10157-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 1.52 | 66.35 | 11.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.80 | 65.86 | 12.97 |      | 150.0 |         |
|           |                                            | Z | 2.23 | 68.83 | 15.09 |      | 150.0 |         |
| 10158-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 3.21 | 74.32 | 18.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.60 | 68.08 | 15.93 |      | 150.0 |         |
|           |                                            | Z | 2.89 | 69.69 | 17.06 |      | 150.0 |         |
| 10159-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 1.58 | 66.53 | 11.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.89 | 66.25 | 13.24 |      | 150.0 |         |
|           |                                            | Z | 2.37 | 69.43 | 15.42 |      | 150.0 |         |
| 10160-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.84 | 72.52 | 18.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.60 | 68.37 | 16.02 |      | 150.0 |         |
|           |                                            | Z | 2.86 | 69.87 | 17.06 |      | 150.0 |         |
| 10161-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.90 | 70.25 | 17.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.76 | 66.95 | 15.54 |      | 150.0 |         |
|           |                                            | Z | 2.99 | 68.18 | 16.40 |      | 150.0 |         |
| 10162-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.02 | 70.57 | 17.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87 | 67.14 | 15.68 |      | 150.0 |         |
|           |                                            | Z | 3.10 | 68.32 | 16.50 |      | 150.0 |         |
| 10166-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.03 | 70.45 | 20.09 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.48 | 69.69 | 19.27 |      | 150.0 |         |
|           |                                            | Z | 3.75 | 71.10 | 20.02 |      | 150.0 |         |
| 10167-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 3.96 | 75.83 | 21.49 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.27 | 72.40 | 19.56 |      | 150.0 |         |
|           |                                            | Z | 4.99 | 75.47 | 20.98 |      | 150.0 |         |

|           |                                            |   |        |        |       |      |       |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.95   | 80.77  | 24.01 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.88   | 75.34  | 21.24 |      | 150.0 |         |
|           |                                            | Z | 5.82   | 78.77  | 22.71 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.68   | 70.04  | 19.90 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.89   | 68.73  | 18.83 |      | 150.0 |         |
|           |                                            | Z | 3.23   | 71.39  | 20.22 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 4.59   | 81.86  | 24.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.01   | 74.77  | 21.24 |      | 150.0 |         |
|           |                                            | Z | 5.53   | 81.65  | 24.08 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.23   | 74.19  | 20.34 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.20   | 70.02  | 18.10 |      | 150.0 |         |
|           |                                            | Z | 4.05   | 74.95  | 20.34 |      | 150.0 |         |
| 10172-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.67   | 82.10  | 26.43 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.60   | 84.28  | 26.14 |      | 65.0  |         |
|           |                                            | Z | 10.10  | 97.83  | 31.48 |      | 65.0  |         |
| 10173-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 25.18  | 116.22 | 34.73 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 10.85  | 92.81  | 27.10 |      | 65.0  |         |
|           |                                            | Z | 100.00 | 134.86 | 38.94 |      | 65.0  |         |
| 10174-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 9.39   | 97.02  | 28.55 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.67   | 83.55  | 23.47 |      | 65.0  |         |
|           |                                            | Z | 35.63  | 114.15 | 33.11 |      | 65.0  |         |
| 10175-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.64   | 69.66  | 19.60 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.85   | 68.37  | 18.55 |      | 150.0 |         |
|           |                                            | Z | 3.18   | 70.98  | 19.92 |      | 150.0 |         |
| 10176-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 4.60   | 81.90  | 24.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.01   | 74.80  | 21.25 |      | 150.0 |         |
|           |                                            | Z | 5.55   | 81.69  | 24.10 |      | 150.0 |         |
| 10177-CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.66   | 69.79  | 19.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87   | 68.54  | 18.65 |      | 150.0 |         |
|           |                                            | Z | 3.21   | 71.17  | 20.03 |      | 150.0 |         |
| 10178-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 4.56   | 81.67  | 24.59 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.97   | 74.55  | 21.12 |      | 150.0 |         |
|           |                                            | Z | 5.45   | 81.33  | 23.93 |      | 150.0 |         |
| 10179-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 3.83   | 77.82  | 22.36 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.55   | 72.17  | 19.49 |      | 150.0 |         |
|           |                                            | Z | 4.70   | 78.07  | 22.04 |      | 150.0 |         |
| 10180-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.22   | 74.14  | 20.30 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.20   | 69.95  | 18.05 |      | 150.0 |         |
|           |                                            | Z | 4.03   | 74.84  | 20.28 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.65   | 69.77  | 19.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87   | 68.52  | 18.65 |      | 150.0 |         |
|           |                                            | Z | 3.21   | 71.15  | 20.02 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 4.54   | 81.63  | 24.57 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.96   | 74.53  | 21.10 |      | 150.0 |         |
|           |                                            | Z | 5.44   | 81.30  | 23.92 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.21   | 74.11  | 20.29 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.19   | 69.93  | 18.04 |      | 150.0 |         |
|           |                                            | Z | 4.02   | 74.81  | 20.27 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.66 | 69.82 | 19.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.88 | 68.56 | 18.67 |      | 150.0 |         |
|           |                                               | Z | 3.22 | 71.20 | 20.05 |      | 150.0 |         |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 4.58 | 81.76 | 24.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.98 | 74.61 | 21.15 |      | 150.0 |         |
|           |                                               | Z | 5.48 | 81.41 | 23.97 |      | 150.0 |         |
| 10186-AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.23 | 74.20 | 20.33 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.21 | 69.99 | 18.07 |      | 150.0 |         |
|           |                                               | Z | 4.04 | 74.90 | 20.31 |      | 150.0 |         |
| 10187-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.68 | 69.95 | 19.81 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.89 | 68.63 | 18.74 |      | 150.0 |         |
|           |                                               | Z | 3.23 | 71.27 | 20.12 |      | 150.0 |         |
| 10188-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 4.82 | 82.88 | 25.17 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.13 | 75.38 | 21.58 |      | 150.0 |         |
|           |                                               | Z | 5.77 | 82.51 | 24.50 |      | 150.0 |         |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 3.34 | 74.85 | 20.71 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.28 | 70.44 | 18.37 |      | 150.0 |         |
|           |                                               | Z | 4.18 | 75.55 | 20.67 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.26 | 67.91 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.38 | 66.37 | 16.03 |      | 150.0 |         |
|           |                                               | Z | 4.52 | 66.88 | 16.36 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.37 | 68.01 | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.54 | 66.67 | 16.17 |      | 150.0 |         |
|           |                                               | Z | 4.69 | 67.19 | 16.48 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.39 | 67.96 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.58 | 66.70 | 16.19 |      | 150.0 |         |
|           |                                               | Z | 4.73 | 67.21 | 16.49 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.23 | 67.85 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.38 | 66.42 | 16.04 |      | 150.0 |         |
|           |                                               | Z | 4.52 | 66.94 | 16.37 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.37 | 68.00 | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.56 | 66.69 | 16.18 |      | 150.0 |         |
|           |                                               | Z | 4.70 | 67.21 | 16.49 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.37 | 67.95 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.58 | 66.72 | 16.20 |      | 150.0 |         |
|           |                                               | Z | 4.73 | 67.23 | 16.51 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.20 | 67.97 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.33 | 66.43 | 16.00 |      | 150.0 |         |
|           |                                               | Z | 4.47 | 66.96 | 16.34 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.36 | 67.96 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.55 | 66.66 | 16.17 |      | 150.0 |         |
|           |                                               | Z | 4.69 | 67.17 | 16.48 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.39 | 67.91 | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.59 | 66.65 | 16.18 |      | 150.0 |         |
|           |                                               | Z | 4.73 | 67.15 | 16.49 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 4.77 | 67.63 | 16.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.94 | 66.82 | 16.32 |      | 150.0 |         |
|           |                                               | Z | 5.06 | 67.28 | 16.57 |      | 150.0 |         |

|           |                                           |   |        |        |       |      |       |         |
|-----------|-------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 4.96   | 67.64  | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.26   | 67.12  | 16.50 |      | 150.0 |         |
|           |                                           | Z | 5.36   | 67.47  | 16.68 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 4.82   | 67.80  | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 4.99   | 66.93  | 16.30 |      | 150.0 |         |
|           |                                           | Z | 5.11   | 67.39  | 16.56 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.67   | 68.42  | 15.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.63   | 65.74  | 14.92 |      | 150.0 |         |
|           |                                           | Z | 2.83   | 66.78  | 15.74 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 32.90  | 121.49 | 36.22 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 11.76  | 94.38  | 27.71 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 135.16 | 39.12 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 30.19  | 117.18 | 34.11 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 11.29  | 92.24  | 26.37 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 131.95 | 37.49 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 4.89   | 88.25  | 28.80 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.31   | 90.06  | 28.32 |      | 65.0  |         |
|           |                                           | Z | 16.48  | 108.22 | 34.76 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 25.61  | 116.51 | 34.81 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.94  | 92.92  | 27.15 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 134.84 | 38.95 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 23.05  | 112.26 | 32.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.46  | 90.85  | 25.84 |      | 65.0  |         |
|           |                                           | Z | 87.39  | 129.36 | 36.79 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 4.61   | 86.91  | 28.22 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.94   | 88.94  | 27.84 |      | 65.0  |         |
|           |                                           | Z | 15.22  | 106.42 | 34.14 |      | 65.0  |         |
| 10232-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 25.49  | 116.45 | 34.80 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.91  | 92.90  | 27.14 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 134.86 | 38.95 |      | 65.0  |         |
| 10233-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 22.80  | 112.09 | 32.70 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.44  | 90.82  | 25.83 |      | 65.0  |         |
|           |                                           | Z | 87.02  | 129.30 | 36.78 |      | 65.0  |         |
| 10234-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 4.45   | 86.05  | 27.77 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.66   | 87.97  | 27.37 |      | 65.0  |         |
|           |                                           | Z | 14.28  | 104.88 | 33.54 |      | 65.0  |         |
| 10235-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 25.60  | 116.55 | 34.83 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.93  | 92.94  | 27.15 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 134.88 | 38.96 |      | 65.0  |         |
| 10236-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 23.53  | 112.57 | 32.81 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.56  | 90.98  | 25.87 |      | 65.0  |         |
|           |                                           | Z | 90.14  | 129.86 | 36.90 |      | 65.0  |         |
| 10237-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 4.60   | 86.91  | 28.23 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.95   | 89.00  | 27.86 |      | 65.0  |         |
|           |                                           | Z | 15.30  | 106.58 | 34.19 |      | 65.0  |         |
| 10238-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 25.43  | 116.43 | 34.79 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.89  | 92.88  | 27.13 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 134.87 | 38.95 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 22.62 | 111.98 | 32.67 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.40 | 90.78  | 25.82 |      | 65.0 |         |
|           |                                            | Z | 86.63 | 129.26 | 36.77 |      | 65.0 |         |
| 10240-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 4.60  | 86.92  | 28.23 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.93  | 88.95  | 27.84 |      | 65.0 |         |
|           |                                            | Z | 15.23 | 106.50 | 34.17 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 7.25  | 85.54  | 27.62 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.25  | 79.43  | 24.67 |      | 65.0 |         |
|           |                                            | Z | 8.72  | 84.09  | 26.88 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.83  | 81.06  | 25.81 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.47  | 77.07  | 23.58 |      | 65.0 |         |
|           |                                            | Z | 7.47  | 80.77  | 25.46 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 4.58  | 75.66  | 24.44 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.28  | 73.84  | 23.07 |      | 65.0 |         |
|           |                                            | Z | 5.80  | 76.26  | 24.49 |      | 65.0 |         |
| 10244-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 2.31  | 64.76  | 10.43 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.65  | 72.71  | 16.83 |      | 65.0 |         |
|           |                                            | Z | 7.19  | 79.77  | 20.13 |      | 65.0 |         |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 2.27  | 64.32  | 10.13 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.52  | 72.01  | 16.47 |      | 65.0 |         |
|           |                                            | Z | 6.79  | 78.59  | 19.61 |      | 65.0 |         |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 2.57  | 69.30  | 13.53 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.98  | 74.16  | 17.55 |      | 65.0 |         |
|           |                                            | Z | 7.36  | 84.27  | 22.19 |      | 65.0 |         |
| 10247-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 3.12  | 68.85  | 14.15 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.02  | 71.14  | 17.04 |      | 65.0 |         |
|           |                                            | Z | 5.21  | 75.56  | 19.51 |      | 65.0 |         |
| 10248-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.98  | 67.80  | 13.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.02  | 70.62  | 16.78 |      | 65.0 |         |
|           |                                            | Z | 5.11  | 74.65  | 19.10 |      | 65.0 |         |
| 10249-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 6.21  | 82.73  | 20.75 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.25  | 78.68  | 20.50 |      | 65.0 |         |
|           |                                            | Z | 8.81  | 87.81  | 24.49 |      | 65.0 |         |
| 10250-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.13  | 76.95  | 20.77 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.97  | 74.16  | 20.28 |      | 65.0 |         |
|           |                                            | Z | 5.94  | 77.44  | 22.01 |      | 65.0 |         |
| 10251-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 4.40  | 72.96  | 18.54 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.73  | 71.97  | 18.90 |      | 65.0 |         |
|           |                                            | Z | 5.56  | 74.88  | 20.53 |      | 65.0 |         |
| 10252-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 7.40  | 86.57  | 24.47 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.64  | 78.88  | 21.77 |      | 65.0 |         |
|           |                                            | Z | 7.80  | 84.89  | 24.49 |      | 65.0 |         |
| 10253-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 4.67  | 72.76  | 19.30 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.88  | 71.24  | 19.00 |      | 65.0 |         |
|           |                                            | Z | 5.56  | 73.64  | 20.35 |      | 65.0 |         |
| 10254-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.04  | 73.98  | 20.15 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.21  | 72.22  | 19.78 |      | 65.0 |         |
|           |                                            | Z | 5.91  | 74.57  | 21.07 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 5.91 | 80.27 | 22.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.33 | 75.55 | 20.72 |      | 65.0 |         |
|           |                                             | Z | 6.58 | 79.42 | 22.61 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 1.55 | 61.02 | 7.00  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.33 | 67.83 | 13.42 |      | 65.0 |         |
|           |                                             | Z | 5.04 | 73.93 | 16.63 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 1.54 | 60.78 | 6.75  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.25 | 67.16 | 12.99 |      | 65.0 |         |
|           |                                             | Z | 4.71 | 72.58 | 15.95 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 1.46 | 62.35 | 8.56  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.76 | 68.59 | 14.07 |      | 65.0 |         |
|           |                                             | Z | 4.91 | 77.26 | 18.59 |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 3.94 | 72.30 | 16.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.41 | 72.37 | 18.26 |      | 65.0 |         |
|           |                                             | Z | 5.52 | 76.32 | 20.44 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 3.89 | 71.74 | 16.48 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.44 | 72.10 | 18.15 |      | 65.0 |         |
|           |                                             | Z | 5.50 | 75.87 | 20.25 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 6.46 | 83.64 | 21.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.13 | 77.89 | 20.70 |      | 65.0 |         |
|           |                                             | Z | 7.63 | 85.03 | 23.96 |      | 65.0 |         |
| 10262-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.09 | 76.81 | 20.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.96 | 74.10 | 20.23 |      | 65.0 |         |
|           |                                             | Z | 5.93 | 77.38 | 21.97 |      | 65.0 |         |
| 10263-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 4.39 | 72.95 | 18.53 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.73 | 71.95 | 18.89 |      | 65.0 |         |
|           |                                             | Z | 5.55 | 74.85 | 20.52 |      | 65.0 |         |
| 10264-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 7.25 | 86.15 | 24.28 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.58 | 78.66 | 21.66 |      | 65.0 |         |
|           |                                             | Z | 7.71 | 84.63 | 24.37 |      | 65.0 |         |
| 10265-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 4.73 | 73.12 | 19.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.96 | 71.70 | 19.26 |      | 65.0 |         |
|           |                                             | Z | 5.69 | 74.24 | 20.64 |      | 65.0 |         |
| 10266-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.18 | 74.61 | 20.74 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.32 | 72.77 | 20.12 |      | 65.0 |         |
|           |                                             | Z | 6.06 | 75.21 | 21.42 |      | 65.0 |         |
| 10267-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.27 | 81.18 | 23.00 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.59 | 76.19 | 20.77 |      | 65.0 |         |
|           |                                             | Z | 7.03 | 80.41 | 22.77 |      | 65.0 |         |
| 10268-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 5.35 | 73.06 | 20.33 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.60 | 71.77 | 19.73 |      | 65.0 |         |
|           |                                             | Z | 6.25 | 73.85 | 20.84 |      | 65.0 |         |
| 10269-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 5.37 | 72.72 | 20.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.60 | 71.39 | 19.61 |      | 65.0 |         |
|           |                                             | Z | 6.21 | 73.36 | 20.67 |      | 65.0 |         |
| 10270-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 5.82 | 76.99 | 21.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.59 | 73.73 | 19.91 |      | 65.0 |         |
|           |                                             | Z | 6.54 | 76.64 | 21.36 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.66   | 70.03  | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.43   | 66.09  | 14.80 |      | 150.0 |         |
|           |                                                                    | Z | 2.65   | 67.37  | 15.78 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 2.42   | 77.93  | 19.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.44   | 67.09  | 14.73 |      | 150.0 |         |
|           |                                                                    | Z | 1.78   | 70.31  | 16.92 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.23   | 58.44  | 3.57  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 1.92   | 60.52  | 6.17  |      | 50.0  |         |
|           |                                                                    | Z | 1.96   | 61.24  | 6.80  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 2.12   | 62.45  | 8.04  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 3.44   | 67.69  | 12.65 |      | 50.0  |         |
|           |                                                                    | Z | 5.93   | 76.42  | 17.10 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 2.15   | 62.56  | 8.16  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 3.55   | 67.99  | 12.85 |      | 50.0  |         |
|           |                                                                    | Z | 6.14   | 76.82  | 17.32 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 0.61   | 63.08  | 8.20  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.01   | 65.06  | 11.00 |      | 150.0 |         |
|           |                                                                    | Z | 1.95   | 73.45  | 16.01 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.48   | 63.41  | 8.17  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.56   | 62.50  | 9.19  |      | 150.0 |         |
|           |                                                                    | Z | 1.06   | 70.02  | 14.49 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 100.00 | 112.06 | 22.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.67   | 65.26  | 10.96 |      | 150.0 |         |
|           |                                                                    | Z | 2.66   | 83.70  | 20.22 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 121.17 | 26.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.11   | 71.11  | 14.12 |      | 150.0 |         |
|           |                                                                    | Z | 30.15  | 119.14 | 30.62 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 94.79  | 112.70 | 28.00 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.82   | 84.73  | 22.73 |      | 50.0  |         |
|           |                                                                    | Z | 12.93  | 92.25  | 26.45 |      | 50.0  |         |
| 10297-AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.93   | 73.95  | 19.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.55   | 69.04  | 16.15 |      | 150.0 |         |
|           |                                                                    | Z | 2.92   | 71.25  | 17.51 |      | 150.0 |         |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 0.87   | 64.10  | 9.64  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.22   | 65.26  | 11.98 |      | 150.0 |         |
|           |                                                                    | Z | 1.81   | 70.53  | 15.47 |      | 150.0 |         |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 0.90   | 60.62  | 6.39  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.19   | 67.53  | 12.78 |      | 150.0 |         |
|           |                                                                    | Z | 3.82   | 74.74  | 16.25 |      | 150.0 |         |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 0.82   | 60.00  | 5.40  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.65   | 63.47  | 10.02 |      | 150.0 |         |
|           |                                                                    | Z | 2.15   | 66.46  | 11.89 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.21   | 66.27  | 17.34 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.59   | 65.35  | 17.33 |      | 50.0  |         |
|           |                                                                    | Z | 4.78   | 65.99  | 17.77 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 4.61   | 66.51  | 17.89 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.02   | 65.68  | 17.86 |      | 50.0  |         |
|           |                                                                    | Z | 5.19   | 66.26  | 18.29 |      | 50.0  |         |

|           |                                                                     |   |       |        |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.40  | 66.31  | 17.71 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.77  | 65.30  | 17.67 |       | 50.0  |         |
|           |                                                                     | Z | 4.94  | 65.89  | 18.12 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.26  | 66.43  | 17.37 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.58  | 65.18  | 17.18 |       | 50.0  |         |
|           |                                                                     | Z | 4.76  | 65.81  | 17.64 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 3.80  | 67.56  | 18.00 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.31  | 67.61  | 19.30 |       | 35.0  |         |
|           |                                                                     | Z | 4.37  | 67.75  | 19.72 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.13  | 66.91  | 18.23 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.59  | 66.47  | 18.91 |       | 35.0  |         |
|           |                                                                     | Z | 4.68  | 66.71  | 19.28 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.01  | 66.88  | 18.09 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.49  | 66.63  | 18.87 |       | 35.0  |         |
|           |                                                                     | Z | 4.58  | 66.87  | 19.25 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.00  | 67.13  | 18.28 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.47  | 66.85  | 19.01 |       | 35.0  |         |
|           |                                                                     | Z | 4.56  | 67.09  | 19.40 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.13  | 66.95  | 18.32 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.64  | 66.66  | 19.05 |       | 35.0  |         |
|           |                                                                     | Z | 4.74  | 66.92  | 19.42 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.09  | 67.02  | 18.27 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.54  | 66.55  | 18.90 |       | 35.0  |         |
|           |                                                                     | Z | 4.63  | 66.77  | 19.26 |       | 35.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.25  | 72.28  | 18.25 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.90  | 68.26  | 15.83 |       | 150.0 |         |
|           |                                                                     | Z | 3.30  | 70.38  | 17.07 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 5.34  | 82.19  | 19.69 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.27  | 68.36  | 13.64 |       | 70.0  |         |
|           |                                                                     | Z | 5.44  | 80.57  | 19.23 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 37.96 | 116.69 | 32.72 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 3.96  | 76.74  | 19.76 |       | 30.0  |         |
|           |                                                                     | Z | 12.32 | 97.31  | 27.76 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.15  | 67.18  | 17.55 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.95  | 63.03  | 14.61 |       | 150.0 |         |
|           |                                                                     | Z | 1.10  | 64.85  | 16.16 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.25  | 67.63  | 16.68 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.43  | 66.39  | 16.16 |       | 150.0 |         |
|           |                                                                     | Z | 4.57  | 66.91  | 16.49 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.25  | 67.63  | 16.68 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.43  | 66.39  | 16.16 |       | 150.0 |         |
|           |                                                                     | Z | 4.57  | 66.91  | 16.49 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.28  | 67.84  | 16.68 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.53  | 66.71  | 16.15 |       | 150.0 |         |
|           |                                                                     | Z | 4.67  | 67.24  | 16.47 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.04  | 67.67  | 16.76 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.31  | 67.11  | 16.46 |       | 150.0 |         |
|           |                                                                     | Z | 5.37  | 67.34  | 16.59 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.33   | 67.90  | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.51   | 67.17  | 16.36 |      | 150.0 |         |
|           |                                                                                 | Z | 5.62   | 67.63  | 16.59 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 0.61   | 63.08  | 8.20  | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.01   | 65.06  | 11.00 |      | 115.0 |         |
|           |                                                                                 | Z | 1.95   | 73.45  | 16.01 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 0.61   | 63.08  | 8.20  | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.01   | 65.06  | 11.00 |      | 115.0 |         |
|           |                                                                                 | Z | 1.95   | 73.45  | 16.01 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 106.62 | 22.05 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 122.01 | 30.41 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 119.23 | 29.11 |      | 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 | 128.94 | 31.79 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 123.26 | 30.47 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 125.96 | 31.84 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.08   | 66.48  | 17.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.89   | 62.38  | 14.10 |      | 150.0 |         |
|           |                                                                                 | Z | 1.02   | 64.02  | 15.57 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.23   | 67.77  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.38   | 66.41  | 16.11 |      | 150.0 |         |
|           |                                                                                 | Z | 4.52   | 66.92  | 16.43 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.23   | 67.77  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.38   | 66.41  | 16.11 |      | 150.0 |         |
|           |                                                                                 | Z | 4.52   | 66.92  | 16.43 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.23   | 68.05  | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.37   | 66.58  | 16.14 |      | 150.0 |         |
|           |                                                                                 | Z | 4.51   | 67.10  | 16.46 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.25   | 67.94  | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.39   | 66.53  | 16.13 |      | 150.0 |         |
|           |                                                                                 | Z | 4.53   | 67.04  | 16.45 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.34   | 67.85  | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.51   | 66.52  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.64   | 67.02  | 16.46 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.44   | 68.07  | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.66   | 66.82  | 16.26 |      | 150.0 |         |
|           |                                                                                 | Z | 4.80   | 67.32  | 16.56 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.37   | 68.01  | 16.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.58   | 66.77  | 16.23 |      | 150.0 |         |
|           |                                                                                 | Z | 4.73   | 67.28  | 16.54 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 4.96   | 67.75  | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.21   | 67.10  | 16.46 |      | 150.0 |         |
|           |                                                                                 | Z | 5.32   | 67.50  | 16.67 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.01   | 67.94  | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.25   | 67.24  | 16.52 |      | 150.0 |         |
|           |                                                                                 | Z | 5.33   | 67.55  | 16.69 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 4.97   | 67.74  | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.24   | 67.13  | 16.47 |      | 150.0 |         |
|           |                                                                | Z | 5.34   | 67.51  | 16.67 |      | 150.0 |         |
| 10430-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 5.74   | 79.57  | 20.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.20   | 71.41  | 18.31 |      | 150.0 |         |
|           |                                                                | Z | 4.42   | 72.10  | 18.85 |      | 150.0 |         |
| 10431-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 3.86   | 68.81  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.03   | 66.95  | 16.02 |      | 150.0 |         |
|           |                                                                | Z | 4.21   | 67.59  | 16.47 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.16   | 68.33  | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.34   | 66.82  | 16.15 |      | 150.0 |         |
|           |                                                                | Z | 4.50   | 67.38  | 16.51 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.40   | 68.06  | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.60   | 66.80  | 16.25 |      | 150.0 |         |
|           |                                                                | Z | 4.74   | 67.32  | 16.56 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 6.42   | 81.24  | 20.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.31   | 72.27  | 18.17 |      | 150.0 |         |
|           |                                                                | Z | 4.62   | 73.31  | 18.93 |      | 150.0 |         |
| 10435-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 128.46 | 31.58 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 123.00 | 30.34 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 125.69 | 31.72 |      | 80.0  |         |
| 10447-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.07   | 68.56  | 14.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.29   | 66.78  | 15.06 |      | 150.0 |         |
|           |                                                                | Z | 3.52   | 67.81  | 15.86 |      | 150.0 |         |
| 10448-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 3.75   | 68.65  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.88   | 66.72  | 15.88 |      | 150.0 |         |
|           |                                                                | Z | 4.05   | 67.38  | 16.34 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.02   | 68.20  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.17   | 66.64  | 16.05 |      | 150.0 |         |
|           |                                                                | Z | 4.32   | 67.23  | 16.43 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.23   | 67.87  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.37   | 66.56  | 16.10 |      | 150.0 |         |
|           |                                                                | Z | 4.51   | 67.10  | 16.43 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 2.68   | 67.28  | 13.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.13   | 66.74  | 14.48 |      | 150.0 |         |
|           |                                                                | Z | 3.42   | 68.03  | 15.46 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.37   | 69.51  | 17.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.13   | 67.72  | 16.66 |      | 150.0 |         |
|           |                                                                | Z | 6.19   | 68.01  | 16.79 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.67   | 66.70  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.67   | 65.06  | 15.81 |      | 150.0 |         |
|           |                                                                | Z | 3.78   | 65.55  | 16.14 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.28   | 70.85  | 15.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.85   | 71.04  | 17.20 |      | 150.0 |         |
|           |                                                                | Z | 4.23   | 72.52  | 18.26 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.74   | 70.46  | 17.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.05   | 69.06  | 18.38 |      | 150.0 |         |
|           |                                                                | Z | 5.17   | 69.19  | 18.54 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 3.83   | 97.35  | 27.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.75   | 67.30  | 14.93 |      | 150.0 |         |
|           |                                                                   | Z | 1.12   | 73.22  | 18.94 |      | 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 | 140.27 | 36.79 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 126.98 | 32.27 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 133.88 | 35.45 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.57   | 60.00  | 6.35  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.27   | 63.39  | 10.03 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 105.86 | 22.53 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.63   | 60.00  | 5.48  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.91   | 60.00  | 7.83  |      | 80.0  |         |
|           |                                                                   | Z | 3.03   | 71.03  | 12.53 |      | 80.0  |         |
| 10464-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 135.46 | 34.40 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.47 | 30.50 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.96 | 33.91 |      | 80.0  |         |
| 10465-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.57   | 60.00  | 6.28  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.16   | 62.46  | 9.53  |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 104.96 | 22.12 |      | 80.0  |         |
| 10466-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.64   | 60.00  | 5.44  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.91   | 60.00  | 7.78  |      | 80.0  |         |
|           |                                                                   | Z | 1.99   | 67.28  | 11.12 |      | 80.0  |         |
| 10467-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 136.26 | 34.74 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.84 | 30.66 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 131.35 | 34.08 |      | 80.0  |         |
| 10468-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.57   | 60.00  | 6.31  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.18   | 62.71  | 9.66  |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 105.23 | 22.24 |      | 80.0  |         |
| 10469-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.64   | 60.00  | 5.45  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.91   | 60.00  | 7.78  |      | 80.0  |         |
|           |                                                                   | Z | 2.01   | 67.39  | 11.16 |      | 80.0  |         |
| 10470-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 136.34 | 34.76 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.85 | 30.65 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 131.41 | 34.10 |      | 80.0  |         |
| 10471-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.57   | 60.00  | 6.30  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.18   | 62.65  | 9.62  |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 105.13 | 22.19 |      | 80.0  |         |
| 10472-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.64   | 60.00  | 5.42  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.91   | 60.00  | 7.77  |      | 80.0  |         |
|           |                                                                   | Z | 1.96   | 67.19  | 11.07 |      | 80.0  |         |
| 10473-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 136.29 | 34.74 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.81 | 30.63 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 131.36 | 34.08 |      | 80.0  |         |
| 10474-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.57   | 60.00  | 6.29  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.17   | 62.62  | 9.61  |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 105.13 | 22.18 |      | 80.0  |         |
| 10475-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.64   | 60.00  | 5.42  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.91   | 60.00  | 7.77  |      | 80.0  |         |
|           |                                                                   | Z | 1.95   | 67.13  | 11.05 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.57   | 60.00  | 6.26  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.15   | 62.40  | 9.48  |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 104.85 | 22.06 |      | 80.0 |         |
| 10478-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.64   | 60.00  | 5.41  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.91   | 60.00  | 7.76  |      | 80.0 |         |
|           |                                                                     | Z | 1.91   | 66.93  | 10.96 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 131.14 | 34.24 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 13.43  | 95.49  | 25.60 |      | 80.0 |         |
|           |                                                                     | Z | 62.29  | 121.00 | 33.03 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 106.96 | 23.06 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.85   | 79.89  | 18.61 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 115.79 | 28.80 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.86   | 73.69  | 13.68 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.56   | 74.14  | 16.19 |      | 80.0 |         |
|           |                                                                     | Z | 45.91  | 103.83 | 25.41 |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.39   | 65.09  | 11.14 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.98   | 67.38  | 14.12 |      | 80.0 |         |
|           |                                                                     | Z | 4.76   | 79.86  | 19.96 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.08   | 60.00  | 7.44  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.32   | 70.24  | 15.02 |      | 80.0 |         |
|           |                                                                     | Z | 9.16   | 84.17  | 20.64 |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.11   | 60.00  | 7.41  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.08   | 69.04  | 14.53 |      | 80.0 |         |
|           |                                                                     | Z | 7.34   | 80.99  | 19.61 |      | 80.0 |         |
| 10485-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.64   | 87.36  | 21.57 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.57   | 70.72  | 16.81 |      | 80.0 |         |
|           |                                                                     | Z | 4.54   | 79.61  | 21.04 |      | 80.0 |         |
| 10486-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.01   | 66.08  | 12.44 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.49   | 66.72  | 14.45 |      | 80.0 |         |
|           |                                                                     | Z | 3.70   | 72.58  | 17.65 |      | 80.0 |         |
| 10487-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.90   | 65.07  | 11.92 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.50   | 66.38  | 14.28 |      | 80.0 |         |
|           |                                                                     | Z | 3.62   | 71.86  | 17.33 |      | 80.0 |         |
| 10488-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.16   | 79.24  | 21.30 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.97   | 70.70  | 17.79 |      | 80.0 |         |
|           |                                                                     | Z | 4.08   | 75.87  | 20.40 |      | 80.0 |         |
| 10489-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.54   | 72.75  | 18.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.00   | 67.62  | 16.44 |      | 80.0 |         |
|           |                                                                     | Z | 3.62   | 70.64  | 18.20 |      | 80.0 |         |
| 10490-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.51   | 72.10  | 17.88 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.09   | 67.50  | 16.41 |      | 80.0 |         |
|           |                                                                     | Z | 3.69   | 70.33  | 18.06 |      | 80.0 |         |
| 10491-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.64   | 74.19  | 19.76 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.25   | 69.45  | 17.46 |      | 80.0 |         |
|           |                                                                     | Z | 4.05   | 73.07  | 19.37 |      | 80.0 |         |
| 10492-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.51   | 70.25  | 17.89 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.37   | 67.08  | 16.61 |      | 80.0 |         |
|           |                                                                     | Z | 3.85   | 69.24  | 17.88 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.54 | 69.96 | 17.73 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.44 | 66.98 | 16.58 |      | 80.0 |         |
|           |                                                                      | Z | 3.91 | 69.05 | 17.80 |      | 80.0 |         |
| 10494-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.03 | 75.96 | 20.47 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.49 | 70.78 | 17.88 |      | 80.0 |         |
|           |                                                                      | Z | 4.55 | 75.17 | 20.06 |      | 80.0 |         |
| 10495-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.53 | 70.38 | 18.17 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.40 | 67.40 | 16.81 |      | 80.0 |         |
|           |                                                                      | Z | 3.90 | 69.67 | 18.11 |      | 80.0 |         |
| 10496-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.58 | 70.01 | 18.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.48 | 67.19 | 16.75 |      | 80.0 |         |
|           |                                                                      | Z | 3.95 | 69.29 | 17.97 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 0.81 | 60.00 | 6.64  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.23 | 61.90 | 10.27 |      | 80.0 |         |
|           |                                                                      | Z | 3.12 | 73.35 | 16.33 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.10 | 60.00 | 5.12  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.25 | 60.00 | 8.18  |      | 80.0 |         |
|           |                                                                      | Z | 1.62 | 62.59 | 10.41 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.16 | 60.00 | 4.91  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.26 | 60.00 | 8.03  |      | 80.0 |         |
|           |                                                                      | Z | 1.54 | 61.77 | 9.83  |      | 80.0 |         |
| 10500-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.65 | 83.86 | 21.48 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.71 | 70.57 | 17.17 |      | 80.0 |         |
|           |                                                                      | Z | 4.15 | 77.36 | 20.54 |      | 80.0 |         |
| 10501-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.99 | 70.66 | 15.44 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.74 | 67.33 | 15.34 |      | 80.0 |         |
|           |                                                                      | Z | 3.67 | 71.80 | 17.86 |      | 80.0 |         |
| 10502-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.88 | 69.78 | 14.96 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.79 | 67.18 | 15.20 |      | 80.0 |         |
|           |                                                                      | Z | 3.71 | 71.54 | 17.68 |      | 80.0 |         |
| 10503-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.06 | 78.83 | 21.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.93 | 70.48 | 17.68 |      | 80.0 |         |
|           |                                                                      | Z | 4.01 | 75.61 | 20.28 |      | 80.0 |         |
| 10504-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.49 | 72.53 | 18.07 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.98 | 67.51 | 16.38 |      | 80.0 |         |
|           |                                                                      | Z | 3.60 | 70.53 | 18.13 |      | 80.0 |         |
| 10505-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.47 | 71.91 | 17.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.07 | 67.40 | 16.34 |      | 80.0 |         |
|           |                                                                      | Z | 3.67 | 70.23 | 18.00 |      | 80.0 |         |
| 10506-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.98 | 75.73 | 20.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.46 | 70.63 | 17.80 |      | 80.0 |         |
|           |                                                                      | Z | 4.51 | 74.99 | 19.98 |      | 80.0 |         |
| 10507-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.51 | 70.29 | 18.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.38 | 67.34 | 16.76 |      | 80.0 |         |
|           |                                                                      | Z | 3.88 | 69.60 | 18.07 |      | 80.0 |         |

|           |                                                                     |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10508-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.56   | 69.90  | 17.95 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.47   | 67.12  | 16.71 |      | 80.0  |         |
|           |                                                                     | Z | 3.94   | 69.21  | 17.92 |      | 80.0  |         |
| 10509-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.09   | 73.01  | 19.31 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.84   | 69.60  | 17.41 |      | 80.0  |         |
|           |                                                                     | Z | 4.67   | 72.86  | 19.08 |      | 80.0  |         |
| 10510-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.82   | 69.02  | 17.83 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.87   | 67.16  | 16.83 |      | 80.0  |         |
|           |                                                                     | Z | 4.32   | 69.01  | 17.88 |      | 80.0  |         |
| 10511-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.88   | 68.80  | 17.75 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.94   | 66.96  | 16.79 |      | 80.0  |         |
|           |                                                                     | Z | 4.35   | 68.69  | 17.78 |      | 80.0  |         |
| 10512-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.35   | 74.76  | 19.91 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.95   | 70.90  | 17.79 |      | 80.0  |         |
|           |                                                                     | Z | 5.07   | 75.09  | 19.83 |      | 80.0  |         |
| 10513-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.73   | 69.14  | 17.94 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.75   | 67.35  | 16.91 |      | 80.0  |         |
|           |                                                                     | Z | 4.22   | 69.37  | 18.04 |      | 80.0  |         |
| 10514-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.76   | 68.71  | 17.77 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.79   | 67.00  | 16.81 |      | 80.0  |         |
|           |                                                                     | Z | 4.22   | 68.84  | 17.86 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.06   | 67.02  | 17.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.85   | 62.54  | 14.13 |      | 150.0 |         |
|           |                                                                     | Z | 0.99   | 64.31  | 15.71 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 100.00 | 175.21 | 49.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.51   | 70.52  | 15.75 |      | 150.0 |         |
|           |                                                                     | Z | 1.10   | 83.30  | 23.52 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 1.06   | 72.96  | 20.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.69   | 64.33  | 14.49 |      | 150.0 |         |
|           |                                                                     | Z | 0.88   | 67.42  | 17.03 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.23   | 67.95  | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.37   | 66.49  | 16.09 |      | 150.0 |         |
|           |                                                                     | Z | 4.51   | 67.01  | 16.41 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.35   | 68.05  | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.54   | 66.71  | 16.20 |      | 150.0 |         |
|           |                                                                     | Z | 4.69   | 67.21  | 16.51 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.22   | 68.00  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.40   | 66.65  | 16.11 |      | 150.0 |         |
|           |                                                                     | Z | 4.54   | 67.19  | 16.45 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.15   | 67.92  | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.33   | 66.63  | 16.09 |      | 150.0 |         |
|           |                                                                     | Z | 4.48   | 67.19  | 16.44 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.16   | 67.92  | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.39   | 66.77  | 16.20 |      | 150.0 |         |
|           |                                                                     | Z | 4.54   | 67.30  | 16.53 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.16 | 68.25 | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.28 | 66.64 | 16.05 |      | 150.0 |         |
|           |                                                            | Z | 4.43 | 67.19 | 16.40 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.14 | 68.05 | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.33 | 66.68 | 16.16 |      | 150.0 |         |
|           |                                                            | Z | 4.48 | 67.21 | 16.50 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.23 | 67.28 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.34 | 65.73 | 15.76 |      | 150.0 |         |
|           |                                                            | Z | 4.48 | 66.28 | 16.10 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.31 | 67.46 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.49 | 66.07 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.64 | 16.24 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.26 | 67.50 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.41 | 66.02 | 15.84 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 66.61 | 16.19 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.27 | 67.48 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.43 | 66.04 | 15.87 |      | 150.0 |         |
|           |                                                            | Z | 4.58 | 66.62 | 16.22 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.27 | 67.48 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.43 | 66.04 | 15.87 |      | 150.0 |         |
|           |                                                            | Z | 4.58 | 66.62 | 16.22 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.22 | 67.46 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.41 | 66.12 | 15.87 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 66.72 | 16.23 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.13 | 67.37 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.28 | 65.96 | 15.79 |      | 150.0 |         |
|           |                                                            | Z | 4.44 | 66.58 | 16.17 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.28 | 67.63 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.44 | 66.10 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 66.68 | 16.22 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 4.81 | 67.06 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.98 | 66.14 | 15.96 |      | 150.0 |         |
|           |                                                            | Z | 5.11 | 66.63 | 16.23 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 4.83 | 67.14 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.06 | 66.35 | 16.06 |      | 150.0 |         |
|           |                                                            | Z | 5.18 | 66.82 | 16.31 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 4.74 | 67.19 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.93 | 66.29 | 16.01 |      | 150.0 |         |
|           |                                                            | Z | 5.05 | 66.79 | 16.28 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 4.82 | 67.26 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.98 | 66.25 | 15.99 |      | 150.0 |         |
|           |                                                            | Z | 5.11 | 66.74 | 16.26 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 4.85 | 67.07 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.06 | 66.26 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 5.19 | 66.73 | 16.29 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 4.79 | 67.04 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.00 | 66.26 | 16.06 |      | 150.0 |         |
|           |                                                            | Z | 5.12 | 66.74 | 16.32 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 4.79 | 67.04 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 4.97 | 66.13 | 15.98 |      | 150.0 |         |
|           |                                                    | Z | 5.10 | 66.63 | 16.25 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 4.92 | 67.07 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.13 | 66.22 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.25 | 66.69 | 16.29 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 4.98 | 67.12 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.19 | 66.24 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.70 | 16.32 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.18 | 66.96 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.31 | 66.24 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.43 | 66.72 | 16.21 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.32 | 67.36 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.73 | 16.16 |      | 150.0 |         |
|           |                                                    | Z | 5.61 | 67.13 | 16.36 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.20 | 67.06 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.36 | 66.42 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.48 | 66.91 | 16.27 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.32 | 67.34 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.44 | 66.49 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 66.95 | 16.28 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.32 | 67.53 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.71 | 67.50 | 16.52 |      | 150.0 |         |
|           |                                                    | Z | 5.77 | 67.79 | 16.67 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.30 | 67.47 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.42 | 66.54 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.51 | 66.95 | 16.30 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.17 | 66.98 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.40 | 66.49 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.52 | 66.98 | 16.27 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.18 | 67.15 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.32 | 66.30 | 15.93 |      | 150.0 |         |
|           |                                                    | Z | 5.44 | 66.80 | 16.19 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.22 | 67.02 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.39 | 66.31 | 15.97 |      | 150.0 |         |
|           |                                                    | Z | 5.52 | 66.81 | 16.23 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.61 | 67.19 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.74 | 66.61 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.84 | 67.06 | 16.28 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.67 | 67.35 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 66.93 | 16.20 |      | 150.0 |         |
|           |                                                    | Z | 5.96 | 67.35 | 16.40 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.73 | 67.52 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.89 | 66.98 | 16.21 |      | 150.0 |         |
|           |                                                    | Z | 5.98 | 67.40 | 16.42 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.67 | 67.37 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.84 | 66.84 | 16.16 |      | 150.0 |         |
|           |                                                    | Z | 5.94 | 67.30 | 16.39 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.64   | 67.30  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.88   | 67.01  | 16.26 |      | 150.0 |         |
|           |                                                                 | Z | 5.99   | 67.46  | 16.48 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 5.68   | 67.29  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.87   | 66.85  | 16.22 |      | 150.0 |         |
|           |                                                                 | Z | 5.98   | 67.30  | 16.44 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.62   | 67.27  | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.81   | 66.85  | 16.26 |      | 150.0 |         |
|           |                                                                 | Z | 5.91   | 67.28  | 16.47 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 5.65   | 67.40  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91   | 67.15  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 6.01   | 67.61  | 16.63 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 5.82   | 67.61  | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.02   | 67.13  | 16.36 |      | 150.0 |         |
|           |                                                                 | Z | 6.14   | 67.62  | 16.60 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.51   | 67.74  | 16.76 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.70   | 66.54  | 16.23 |      | 150.0 |         |
|           |                                                                 | Z | 4.83   | 67.02  | 16.53 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 4.69   | 68.17  | 17.09 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.91   | 67.00  | 16.57 |      | 150.0 |         |
|           |                                                                 | Z | 5.05   | 67.46  | 16.85 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.53   | 67.95  | 16.88 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75   | 66.82  | 16.37 |      | 150.0 |         |
|           |                                                                 | Z | 4.89   | 67.32  | 16.67 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.59   | 68.46  | 17.34 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78   | 67.24  | 16.76 |      | 150.0 |         |
|           |                                                                 | Z | 4.92   | 67.74  | 17.05 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.36   | 67.41  | 16.46 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65   | 66.57  | 16.11 |      | 150.0 |         |
|           |                                                                 | Z | 4.80   | 67.08  | 16.43 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.61   | 68.88  | 17.59 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75   | 67.38  | 16.85 |      | 150.0 |         |
|           |                                                                 | Z | 4.89   | 67.88  | 17.14 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.56   | 68.47  | 17.37 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77   | 67.20  | 16.76 |      | 150.0 |         |
|           |                                                                 | Z | 4.91   | 67.69  | 17.05 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.19   | 67.22  | 17.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.00   | 63.40  | 14.83 |      | 130.0 |         |
|           |                                                                 | Z | 1.17   | 65.37  | 16.46 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.22   | 68.19  | 18.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.01   | 63.95  | 15.19 |      | 130.0 |         |
|           |                                                                 | Z | 1.19   | 66.08  | 16.90 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 167.98 | 47.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.57   | 82.95  | 21.05 |      | 130.0 |         |
|           |                                                                 | Z | 14.96  | 123.92 | 35.40 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.81   | 81.17  | 24.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.08   | 69.70  | 18.11 |      | 130.0 |         |
|           |                                                                 | Z | 1.43   | 74.20  | 21.01 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.28 | 67.48 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.47 | 66.31 | 16.26 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 66.81 | 16.58 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.33 | 67.79 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.50 | 66.49 | 16.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.99 | 16.66 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.46 | 67.97 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 66.78 | 16.51 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 67.27 | 16.82 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.39 | 68.21 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.94 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 67.45 | 16.94 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.09 | 67.07 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.34 | 66.11 | 15.84 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.68 | 16.22 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.08 | 66.98 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.18 | 15.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.72 | 16.24 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.33 | 68.42 | 17.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 66.97 | 16.56 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 67.51 | 16.90 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 3.99 | 66.76 | 15.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.28 | 65.87 | 15.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.42 | 15.99 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.28 | 67.48 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.47 | 66.31 | 16.26 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 66.81 | 16.58 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.33 | 67.79 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.50 | 66.49 | 16.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.99 | 16.66 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.46 | 67.97 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 66.78 | 16.51 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 67.27 | 16.82 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.39 | 68.21 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.94 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 67.45 | 16.94 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.09 | 67.07 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.34 | 66.11 | 15.84 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.68 | 16.22 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.08 | 66.98 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.18 | 15.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.72 | 16.24 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.33 | 68.42 | 17.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 66.97 | 16.56 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 67.51 | 16.90 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 3.99 | 66.76 | 15.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.28 | 65.87 | 15.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.42 | 15.99 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.44 | 67.59 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.63 | 66.39 | 16.38 |      | 130.0 |         |
|           |                                                       | Z | 4.76 | 66.86 | 16.68 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.53 | 67.82 | 16.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.77 | 66.72 | 16.52 |      | 130.0 |         |
|           |                                                       | Z | 4.91 | 67.20 | 16.81 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.45 | 67.71 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.69 | 66.60 | 16.37 |      | 130.0 |         |
|           |                                                       | Z | 4.83 | 67.10 | 16.69 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.51 | 67.90 | 17.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.74 | 66.78 | 16.55 |      | 130.0 |         |
|           |                                                       | Z | 4.89 | 67.28 | 16.85 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.47 | 67.88 | 16.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.71 | 66.73 | 16.44 |      | 130.0 |         |
|           |                                                       | Z | 4.85 | 67.23 | 16.75 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.39 | 67.77 | 16.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.64 | 66.71 | 16.43 |      | 130.0 |         |
|           |                                                       | Z | 4.79 | 67.23 | 16.75 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.35 | 67.64 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.59 | 66.59 | 16.29 |      | 130.0 |         |
|           |                                                       | Z | 4.74 | 67.12 | 16.63 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.39 | 68.04 | 17.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.58 | 66.84 | 16.57 |      | 130.0 |         |
|           |                                                       | Z | 4.72 | 67.37 | 16.90 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.20 | 68.05 | 17.21 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.32 | 66.96 | 16.65 |      | 130.0 |         |
|           |                                                       | Z | 5.42 | 67.31 | 16.84 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.16 | 67.95 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.49 | 67.50 | 16.89 |      | 130.0 |         |
|           |                                                       | Z | 5.55 | 67.72 | 17.02 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.12 | 67.94 | 17.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.35 | 67.17 | 16.74 |      | 130.0 |         |
|           |                                                       | Z | 5.44 | 67.49 | 16.92 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.14 | 67.72 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.48 | 67.31 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 5.55 | 67.57 | 16.88 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.16 | 67.87 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.54 | 67.58 | 17.00 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.84 | 17.14 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.09 | 67.56 | 16.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.40 | 67.16 | 16.77 |      | 130.0 |         |
|           |                                                       | Z | 5.46 | 67.42 | 16.92 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.12 | 67.69 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.47 | 67.38 | 16.88 |      | 130.0 |         |
|           |                                                       | Z | 5.54 | 67.64 | 17.03 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.01 | 67.48 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.17 | 66.54 | 16.31 |      | 130.0 |         |
|           |                                                       | Z | 5.28 | 66.94 | 16.54 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.32 | 67.08 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.47 | 65.70 | 16.01 |      | 130.0 |         |
|           |                                                   | Z | 4.61 | 66.24 | 16.34 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.42 | 67.33 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.64 | 66.09 | 16.17 |      | 130.0 |         |
|           |                                                   | Z | 4.79 | 66.63 | 16.50 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.33 | 67.17 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.53 | 65.91 | 15.98 |      | 130.0 |         |
|           |                                                   | Z | 4.68 | 66.48 | 16.34 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.38 | 67.37 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.58 | 66.09 | 16.16 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.65 | 16.50 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.29 | 67.11 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.49 | 65.88 | 16.00 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.44 | 16.35 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.24 | 67.14 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.50 | 66.02 | 16.04 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.60 | 16.40 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.25 | 66.95 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.49 | 65.87 | 15.90 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.46 | 16.26 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.26 | 67.35 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.45 | 66.09 | 16.16 |      | 130.0 |         |
|           |                                                   | Z | 4.61 | 66.68 | 16.52 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.26 | 66.90 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.49 | 65.69 | 15.75 |      | 130.0 |         |
|           |                                                   | Z | 4.64 | 66.26 | 16.12 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 4.92 | 66.95 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.13 | 66.17 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.64 | 16.49 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 4.94 | 67.00 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.22 | 66.41 | 16.33 |      | 130.0 |         |
|           |                                                   | Z | 5.32 | 66.82 | 16.56 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 4.87 | 67.13 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.10 | 66.40 | 16.34 |      | 130.0 |         |
|           |                                                   | Z | 5.21 | 66.85 | 16.59 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 4.91 | 67.02 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.11 | 66.17 | 16.15 |      | 130.0 |         |
|           |                                                   | Z | 5.22 | 66.62 | 16.41 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 4.92 | 66.82 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.19 | 66.21 | 16.22 |      | 130.0 |         |
|           |                                                   | Z | 5.31 | 66.65 | 16.47 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 4.97 | 67.06 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.20 | 66.37 | 16.43 |      | 130.0 |         |
|           |                                                   | Z | 5.32 | 66.81 | 16.67 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 4.95 | 67.13 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.21 | 66.53 | 16.50 |      | 130.0 |         |
|           |                                                   | Z | 5.33 | 66.97 | 16.74 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 4.86 | 66.72 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.08 | 66.01 | 16.10 |      | 130.0 |         |
|           |                                                    | Z | 5.20 | 66.48 | 16.37 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.02 | 66.91 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.28 | 66.24 | 16.29 |      | 130.0 |         |
|           |                                                    | Z | 5.39 | 66.67 | 16.52 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.11 | 67.10 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.57 | 67.04 | 16.74 |      | 130.0 |         |
|           |                                                    | Z | 5.70 | 67.49 | 16.98 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.28 | 66.82 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.45 | 66.22 | 16.20 |      | 130.0 |         |
|           |                                                    | Z | 5.56 | 66.68 | 16.43 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.47 | 67.40 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.72 | 66.92 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 5.79 | 67.23 | 16.67 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.25 | 66.74 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.47 | 66.27 | 16.11 |      | 130.0 |         |
|           |                                                    | Z | 5.58 | 66.73 | 16.36 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.42 | 67.19 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.38 | 16.16 |      | 130.0 |         |
|           |                                                    | Z | 5.65 | 66.78 | 16.38 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 5.44 | 67.44 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.03 | 68.00 | 16.96 |      | 130.0 |         |
|           |                                                    | Z | 6.03 | 68.11 | 17.04 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.51 | 67.80 | 17.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 67.64 | 17.00 |      | 130.0 |         |
|           |                                                    | Z | 5.97 | 68.04 | 17.20 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.57 | 67.92 | 17.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.69 | 67.01 | 16.70 |      | 130.0 |         |
|           |                                                    | Z | 5.76 | 67.32 | 16.86 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.27 | 66.83 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.53 | 66.44 | 16.23 |      | 130.0 |         |
|           |                                                    | Z | 5.65 | 66.93 | 16.49 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.32 | 67.13 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.51 | 66.47 | 16.31 |      | 130.0 |         |
|           |                                                    | Z | 5.63 | 66.96 | 16.56 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.14 | 66.19 | 15.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.38 | 65.74 | 15.66 |      | 130.0 |         |
|           |                                                    | Z | 5.50 | 66.24 | 15.93 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.73 | 67.08 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.88 | 66.61 | 16.29 |      | 130.0 |         |
|           |                                                    | Z | 5.97 | 67.02 | 16.50 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 5.81 | 67.31 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.05 | 67.05 | 16.50 |      | 130.0 |         |
|           |                                                    | Z | 6.12 | 67.40 | 16.67 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 5.87 | 67.49 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.04 | 67.01 | 16.45 |      | 130.0 |         |
|           |                                                    | Z | 6.12 | 67.37 | 16.64 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 5.80   | 67.29  | 16.69 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.00   | 66.89  | 16.44 |       | 130.0 |         |
|           |                                                        | Z | 6.10   | 67.31  | 16.65 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 5.71   | 67.02  | 16.50 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.00   | 66.89  | 16.38 |       | 130.0 |         |
|           |                                                        | Z | 6.10   | 67.31  | 16.59 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 5.83   | 67.17  | 16.60 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.08   | 66.89  | 16.40 |       | 130.0 |         |
|           |                                                        | Z | 6.15   | 67.24  | 16.58 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 5.86   | 67.40  | 16.89 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.09   | 67.09  | 16.68 |       | 130.0 |         |
|           |                                                        | Z | 6.19   | 67.49  | 16.87 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 5.69   | 67.03  | 16.58 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.94   | 66.79  | 16.42 |       | 130.0 |         |
|           |                                                        | Z | 6.03   | 67.17  | 16.61 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 5.75   | 67.22  | 16.69 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.06   | 67.14  | 16.61 |       | 130.0 |         |
|           |                                                        | Z | 6.16   | 67.59  | 16.84 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 5.91   | 67.42  | 16.76 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.24   | 67.33  | 16.67 |       | 130.0 |         |
|           |                                                        | Z | 6.35   | 67.77  | 16.89 |       | 130.0 |         |
| 10646-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 5.70   | 90.22  | 32.21 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 11.68  | 99.83  | 34.05 |       | 60.0  |         |
|           |                                                        | Z | 24.78  | 120.00 | 41.28 |       | 60.0  |         |
| 10647-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 4.87   | 86.86  | 31.06 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 10.32  | 97.70  | 33.49 |       | 60.0  |         |
|           |                                                        | Z | 19.86  | 115.45 | 40.11 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.30   | 60.00  | 5.66  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.46   | 60.79  | 7.64  |       | 150.0 |         |
|           |                                                        | Z | 0.74   | 65.32  | 11.66 |       | 150.0 |         |
| 10652-AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.48   | 69.40  | 17.08 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.27   | 65.91  | 15.95 |       | 80.0  |         |
|           |                                                        | Z | 3.64   | 67.60  | 17.04 |       | 80.0  |         |
| 10653-AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 3.82   | 67.37  | 17.03 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.82   | 65.39  | 16.26 |       | 80.0  |         |
|           |                                                        | Z | 4.10   | 66.56  | 16.99 |       | 80.0  |         |
| 10654-AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 3.82   | 66.67  | 17.00 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.82   | 65.05  | 16.29 |       | 80.0  |         |
|           |                                                        | Z | 4.07   | 66.14  | 16.97 |       | 80.0  |         |
| 10655-AAD | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 3.90   | 66.38  | 16.98 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.89   | 65.02  | 16.33 |       | 80.0  |         |
|           |                                                        | Z | 4.13   | 66.10  | 16.99 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 5.28   | 73.44  | 13.54 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 4.68   | 72.02  | 13.90 |       | 50.0  |         |
|           |                                                        | Z | 100.00 | 110.55 | 25.81 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 101.17 | 19.91 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 4.13   | 73.04  | 12.99 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 110.02 | 24.48 |       | 60.0  |         |

|           |                             |   |        |        |        |      |       |         |
|-----------|-----------------------------|---|--------|--------|--------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 102.07 | 19.06  | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 1.44   | 66.68  | 8.95   |      | 80.0  |         |
|           |                             | Z | 100.00 | 112.54 | 24.25  |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 109.90 | 21.11  | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 0.32   | 60.00  | 4.45   |      | 100.0 |         |
|           |                             | Z | 100.00 | 119.23 | 25.74  |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 99.98  | 560.16 | 179.73 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 13.96  | 341.39 | 42.94  |      | 120.0 |         |
|           |                             | Z | 100.00 | 149.41 | 35.33  |      | 120.0 |         |

<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.



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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

Client **Auden**

Certificate No: **EX3-3898\_Jun18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3898**

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

Calibration date: **June 26, 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 HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name          | Function              | Signature             |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------------------|
| Calibrated by:                                                                                                  | Leif Klysner  | Laboratory Technician |                       |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |                       |
|                                                                                                                 |               |                       | Issued: June 26, 2018 |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |               |                       |                       |



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 Multilateral Agreement for the recognition of calibration certificates

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

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

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<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).

# Probe EX3DV4

## SN:3898

Manufactured: October 9, 2012  
Calibrated: June 26, 2018

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.38     | 0.35     | 0.32     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 100.1    | 103.5    | 96.5     |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 157.1    | $\pm 3.3 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 155.4    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 161.2    |                           |

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 | 33.50    | 254.8    | 36.71                       | 7.139                               | 0.577                               | 5.024    | 0.179                 | 0.406                 | 1.006 |
| Y | 36.45    | 267.7    | 34.59                       | 7.843                               | 0.296                               | 5.019    | 1.545                 | 0.110                 | 1.005 |
| Z | 32.58    | 250.9    | 37.51                       | 6.306                               | 0.665                               | 5.034    | 0.000                 | 0.434                 | 1.007 |

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

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

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

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.63   | 10.63   | 10.63   | 0.51               | 0.80                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.07   | 10.07   | 10.07   | 0.50               | 0.80                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.82    | 9.82    | 9.82    | 0.39               | 0.89                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.68    | 8.68    | 8.68    | 0.37               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.35    | 8.35    | 8.35    | 0.35               | 0.85                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.33    | 8.33    | 8.33    | 0.30               | 0.85                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.97    | 7.97    | 7.97    | 0.32               | 0.85                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.59    | 7.59    | 7.59    | 0.36               | 0.80                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.37    | 7.37    | 7.37    | 0.36               | 0.86                    | ± 12.0 %  |
| 3500                 | 37.9                               | 2.91                            | 7.21    | 7.21    | 7.21    | 0.25               | 1.20                    | ± 13.1 %  |
| 5250                 | 35.9                               | 4.71                            | 5.40    | 5.40    | 5.40    | 0.40               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.88    | 4.88    | 4.88    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 5.09    | 5.09    | 5.09    | 0.40               | 1.80                    | ± 13.1 %  |

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

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

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

### Calibration Parameter Determined in Body Tissue Simulating Media

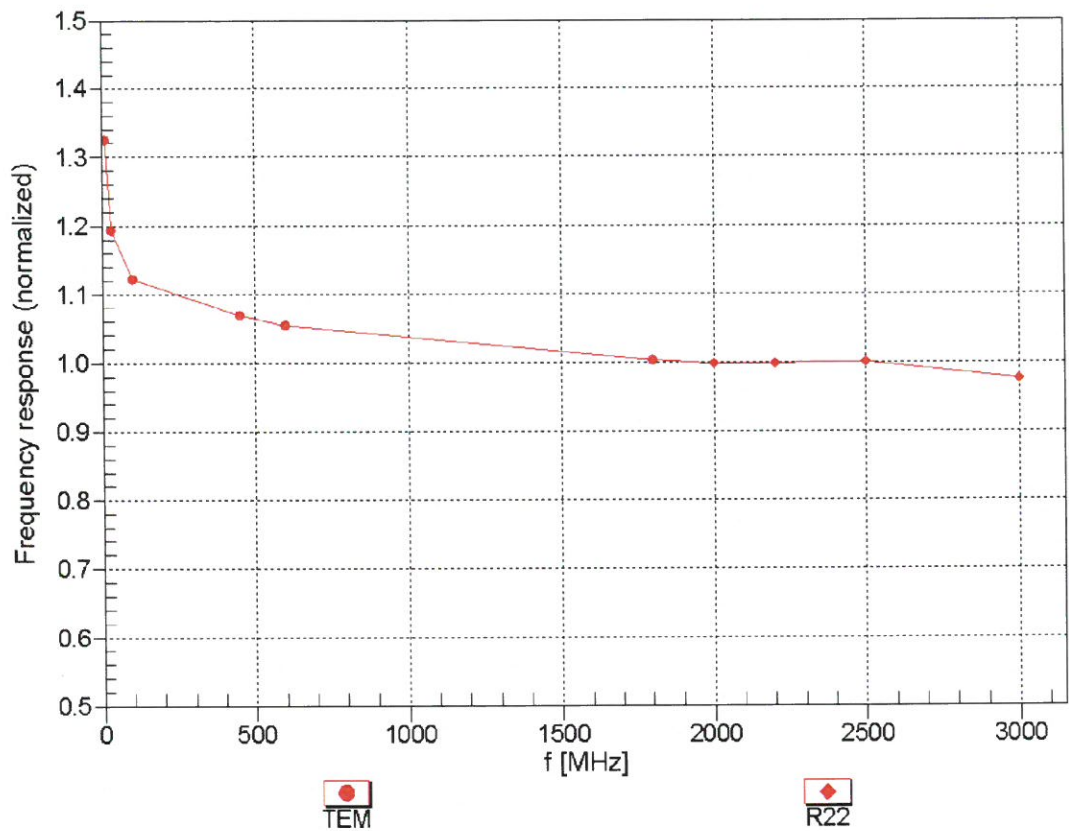
| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 10.28   | 10.28   | 10.28   | 0.42               | 0.88                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 10.25   | 10.25   | 10.25   | 0.38               | 0.96                    | ± 12.0 %  |
| 900                  | 55.0                               | 1.05                            | 10.19   | 10.19   | 10.19   | 0.49               | 0.81                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.28    | 8.28    | 8.28    | 0.40               | 0.85                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 7.97    | 7.97    | 7.97    | 0.43               | 0.80                    | ± 12.0 %  |
| 2000                 | 53.3                               | 1.52                            | 8.15    | 8.15    | 8.15    | 0.34               | 0.90                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 7.75    | 7.75    | 7.75    | 0.45               | 0.85                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.61    | 7.61    | 7.61    | 0.36               | 0.87                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.51    | 7.51    | 7.51    | 0.33               | 0.90                    | ± 12.0 %  |
| 3500                 | 51.3                               | 3.31                            | 6.99    | 6.99    | 6.99    | 0.25               | 1.25                    | ± 13.1 %  |
| 5250                 | 48.9                               | 5.36                            | 4.95    | 4.95    | 4.95    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.17    | 4.17    | 4.17    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.45    | 4.45    | 4.45    | 0.50               | 1.90                    | ± 13.1 %  |

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

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

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

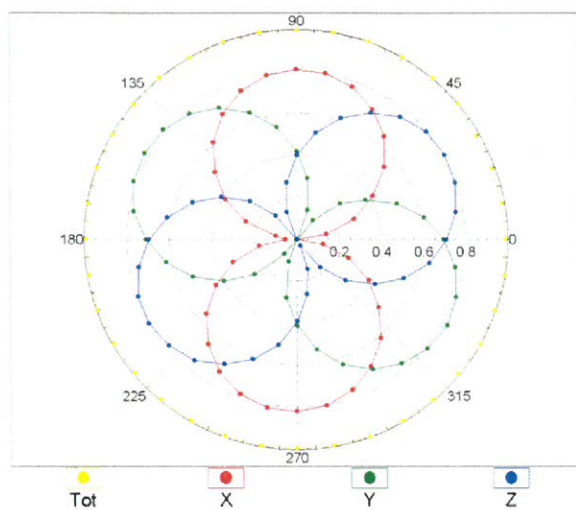
**Frequency Response of E-Field**  
(TEM-Cell:ifi110 EXX, Waveguide: R22)



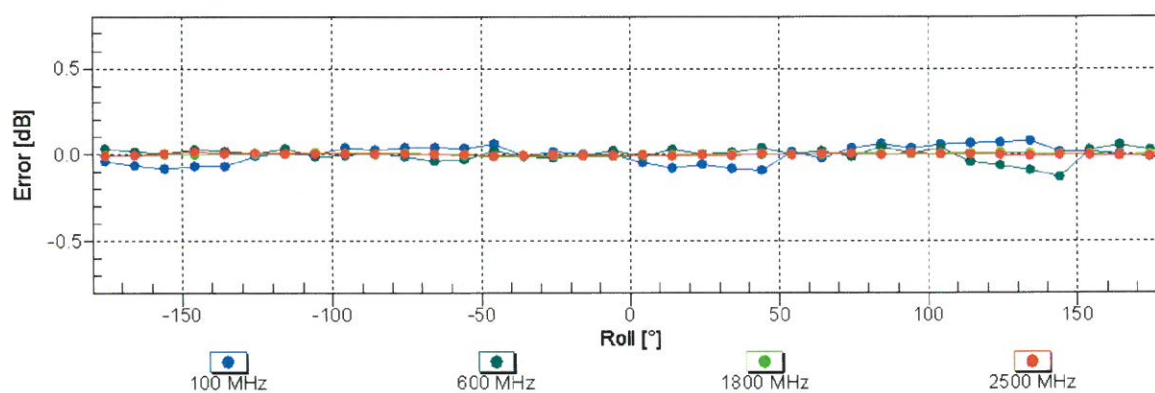
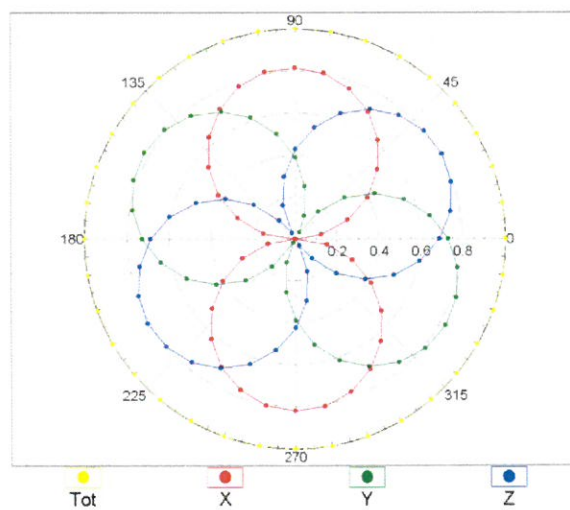
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

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

f=600 MHz,TEM

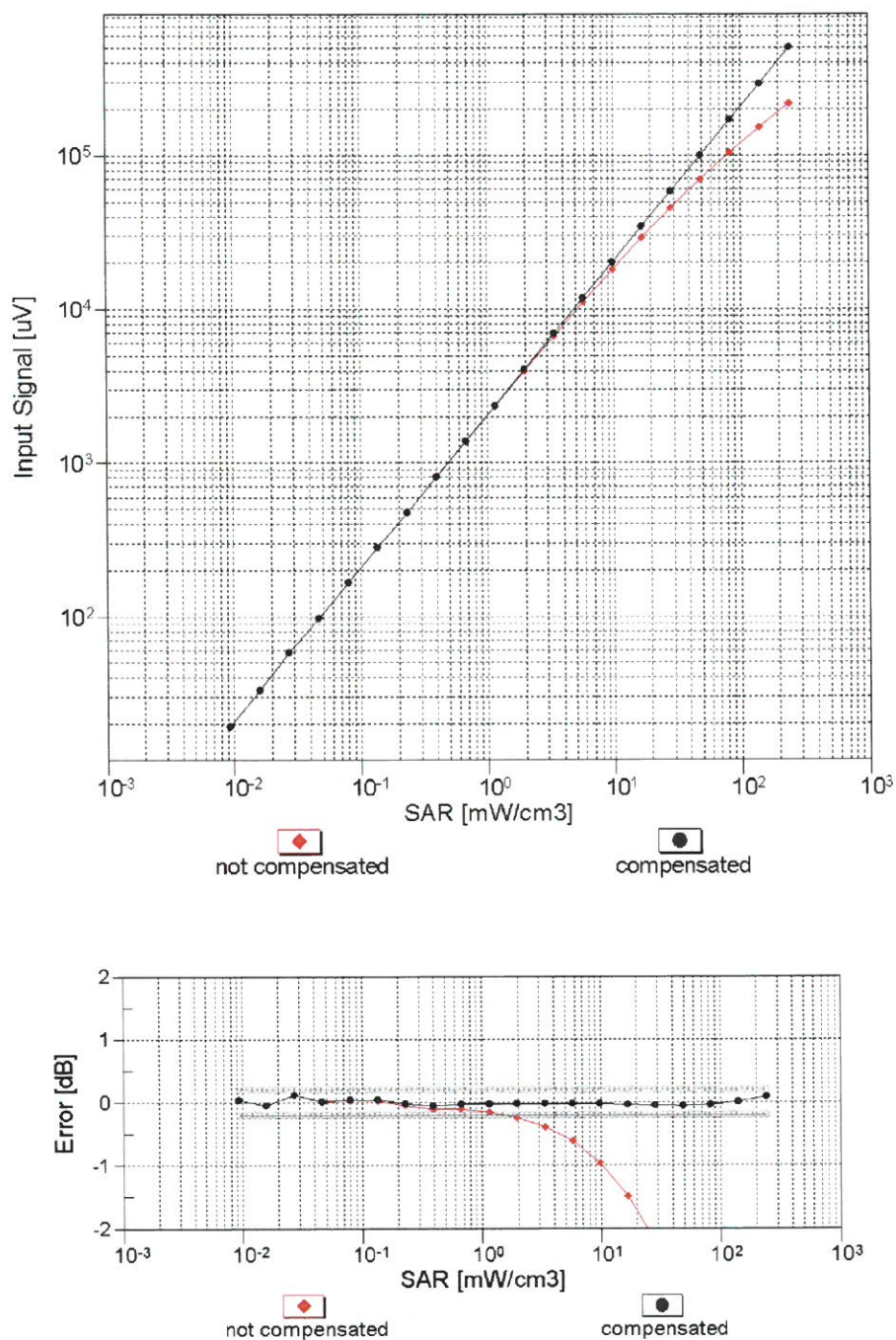


f=1800 MHz,R22



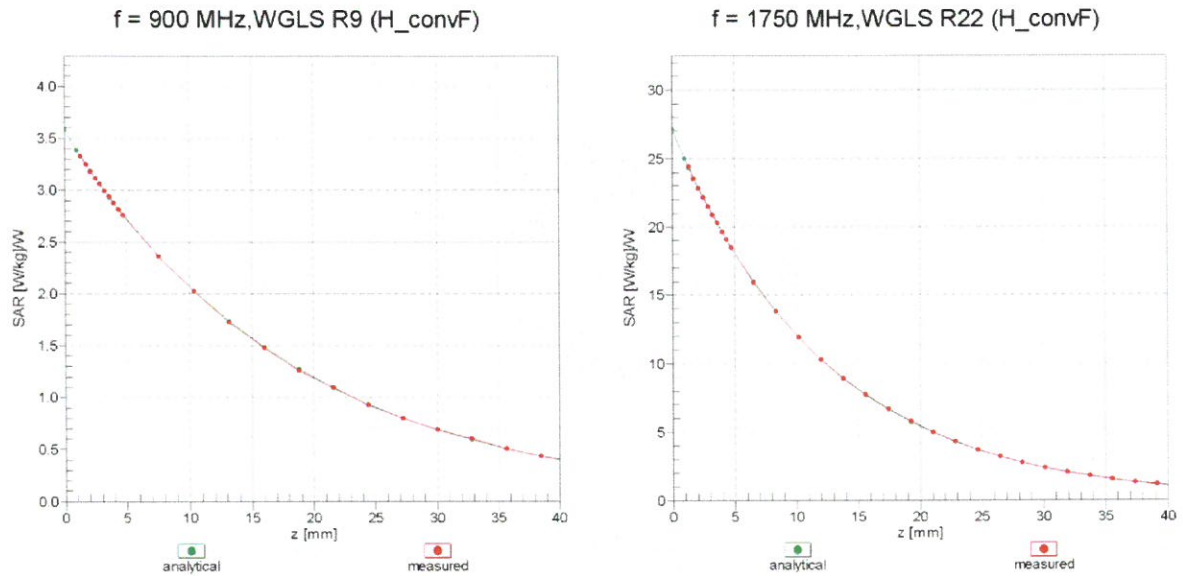
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

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



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

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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

