

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 6.17  | 67.61  | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91  | 67.37  | 16.36 |      | 150.0 |         |
|           |                                                                 | Z | 6.03  | 67.50  | 16.45 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 6.16  | 67.46  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91  | 67.25  | 16.33 |      | 150.0 |         |
|           |                                                                 | Z | 6.03  | 67.36  | 16.42 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 6.07  | 67.40  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.84  | 67.21  | 16.35 |      | 150.0 |         |
|           |                                                                 | Z | 5.95  | 67.32  | 16.44 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 6.22  | 67.85  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.92  | 67.46  | 16.47 |      | 150.0 |         |
|           |                                                                 | Z | 6.07  | 67.69  | 16.62 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.52  | 68.29  | 16.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.99  | 67.32  | 16.36 |      | 150.0 |         |
|           |                                                                 | Z | 6.31  | 68.00  | 16.73 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 5.01  | 66.94  | 16.54 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.76  | 67.01  | 16.38 |      | 150.0 |         |
|           |                                                                 | Z | 4.89  | 66.99  | 16.48 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.28  | 67.43  | 16.87 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.97  | 67.45  | 16.71 |      | 150.0 |         |
|           |                                                                 | Z | 5.12  | 67.44  | 16.80 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.10  | 67.30  | 16.70 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.80  | 67.27  | 16.51 |      | 150.0 |         |
|           |                                                                 | Z | 4.96  | 67.29  | 16.62 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.14  | 67.70  | 17.05 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.85  | 67.75  | 16.93 |      | 150.0 |         |
|           |                                                                 | Z | 4.99  | 67.70  | 16.98 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 5.01  | 67.01  | 16.44 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69  | 66.96  | 16.21 |      | 150.0 |         |
|           |                                                                 | Z | 4.87  | 67.06  | 16.38 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.07  | 67.72  | 17.07 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83  | 67.94  | 17.05 |      | 150.0 |         |
|           |                                                                 | Z | 4.94  | 67.77  | 17.03 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.12  | 67.55  | 17.00 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.84  | 67.73  | 16.94 |      | 150.0 |         |
|           |                                                                 | Z | 4.98  | 67.62  | 16.97 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.31  | 66.03  | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.19  | 64.69  | 15.51 |      | 130.0 |         |
|           |                                                                 | Z | 1.23  | 65.47  | 16.20 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.34  | 66.74  | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.20  | 65.29  | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 1.25  | 66.13  | 16.59 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 13.02 | 114.66 | 31.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.83  | 83.27  | 22.27 |      | 130.0 |         |
|           |                                                                 | Z | 6.19  | 103.61 | 28.94 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.67  | 74.73  | 20.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.36  | 71.52  | 19.07 |      | 130.0 |         |
|           |                                                                 | Z | 1.50  | 73.38  | 20.14 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.80 | 66.71 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.53 | 66.69 | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 66.73 | 16.47 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.83 | 66.87 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.56 | 66.90 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 66.90 | 16.54 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.06 | 67.20 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 67.15 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.90 | 67.19 | 16.71 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.96 | 67.38 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 67.35 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.80 | 67.36 | 16.82 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.73 | 66.73 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.38 | 66.44 | 15.87 |      | 130.0 |         |
|           |                                                                 | Z | 4.56 | 66.64 | 16.13 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.77 | 66.70 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.42 | 66.49 | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 66.67 | 16.15 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.86 | 67.44 | 16.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.55 | 67.40 | 16.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.70 | 67.40 | 16.76 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.68 | 66.48 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.31 | 66.16 | 15.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.50 | 66.40 | 15.92 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.80 | 66.71 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.53 | 66.69 | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 66.73 | 16.47 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.83 | 66.87 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.56 | 66.90 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 66.90 | 16.54 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.06 | 67.20 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 67.15 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.90 | 67.19 | 16.71 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.96 | 67.38 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 67.35 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.80 | 67.36 | 16.82 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.73 | 66.73 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.38 | 66.44 | 15.87 |      | 130.0 |         |
|           |                                                                 | Z | 4.56 | 66.64 | 16.13 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.77 | 66.70 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.42 | 66.49 | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 66.67 | 16.15 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.86 | 67.44 | 16.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.55 | 67.40 | 16.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.70 | 67.40 | 16.76 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.68 | 66.48 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.31 | 66.16 | 15.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.50 | 66.40 | 15.92 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.95 | 66.76 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.68 | 66.78 | 16.43 |      | 130.0 |         |
|           |                                                       | Z | 4.81 | 66.78 | 16.57 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.12 | 67.11 | 16.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.81 | 67.09 | 16.56 |      | 130.0 |         |
|           |                                                       | Z | 4.97 | 67.12 | 16.70 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.05 | 67.06 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.73 | 66.96 | 16.41 |      | 130.0 |         |
|           |                                                       | Z | 4.89 | 67.03 | 16.58 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.10 | 67.21 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.79 | 67.16 | 16.59 |      | 130.0 |         |
|           |                                                       | Z | 4.95 | 67.20 | 16.73 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.08 | 67.18 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.75 | 67.11 | 16.48 |      | 130.0 |         |
|           |                                                       | Z | 4.91 | 67.15 | 16.63 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 5.01 | 67.17 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.68 | 67.07 | 16.47 |      | 130.0 |         |
|           |                                                       | Z | 4.85 | 67.15 | 16.64 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.97 | 67.11 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.63 | 66.94 | 16.32 |      | 130.0 |         |
|           |                                                       | Z | 4.80 | 67.06 | 16.52 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.95 | 67.37 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.63 | 67.23 | 16.63 |      | 130.0 |         |
|           |                                                       | Z | 4.79 | 67.31 | 16.79 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.61 | 67.34 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.33 | 67.18 | 16.60 |      | 130.0 |         |
|           |                                                       | Z | 5.47 | 67.28 | 16.74 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.79 | 67.86 | 17.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.42 | 67.48 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 5.59 | 67.63 | 16.89 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.65 | 67.55 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.34 | 67.32 | 16.66 |      | 130.0 |         |
|           |                                                       | Z | 5.49 | 67.43 | 16.80 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.74 | 67.54 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.45 | 67.40 | 16.61 |      | 130.0 |         |
|           |                                                       | Z | 5.58 | 67.44 | 16.72 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.84 | 67.90 | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.54 | 67.77 | 16.94 |      | 130.0 |         |
|           |                                                       | Z | 5.66 | 67.76 | 17.01 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.61 | 67.31 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.41 | 67.40 | 16.74 |      | 130.0 |         |
|           |                                                       | Z | 5.47 | 67.25 | 16.75 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.71 | 67.57 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.42 | 67.42 | 16.74 |      | 130.0 |         |
|           |                                                       | Z | 5.57 | 67.54 | 16.89 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.50 | 67.10 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.18 | 66.77 | 16.27 |      | 130.0 |         |
|           |                                                       | Z | 5.34 | 66.96 | 16.47 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.78 | 66.08 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.53 | 66.13 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.12 | 16.20 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 5.00 | 66.51 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.68 | 66.48 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 4.84 | 66.52 | 16.37 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.88 | 66.39 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.57 | 66.30 | 16.04 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.38 | 16.21 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.94 | 66.54 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.62 | 66.49 | 16.22 |      | 130.0 |         |
|           |                                                   | Z | 4.78 | 66.54 | 16.37 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.86 | 66.37 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.54 | 66.27 | 16.05 |      | 130.0 |         |
|           |                                                   | Z | 4.70 | 66.34 | 16.22 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.88 | 66.52 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.53 | 66.38 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.50 | 16.26 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.89 | 66.44 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.52 | 66.21 | 15.93 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.38 | 16.15 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.82 | 66.63 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.50 | 66.50 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 4.66 | 66.58 | 16.39 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.86 | 66.18 | 16.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.52 | 66.05 | 15.79 |      | 130.0 |         |
|           |                                                   | Z | 4.70 | 66.17 | 15.99 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.43 | 66.62 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.15 | 66.47 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 5.29 | 66.57 | 16.37 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.49 | 66.72 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.21 | 66.61 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 5.36 | 66.72 | 16.42 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.39 | 66.81 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.11 | 66.69 | 16.34 |      | 130.0 |         |
|           |                                                   | Z | 5.25 | 66.75 | 16.45 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.41 | 66.63 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.11 | 66.43 | 16.14 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.55 | 16.29 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.52 | 66.72 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.19 | 66.45 | 16.20 |      | 130.0 |         |
|           |                                                   | Z | 5.35 | 66.60 | 16.36 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.50 | 66.80 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.22 | 66.66 | 16.44 |      | 130.0 |         |
|           |                                                   | Z | 5.35 | 66.73 | 16.54 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.50 | 66.90 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.21 | 66.75 | 16.48 |      | 130.0 |         |
|           |                                                   | Z | 5.36 | 66.87 | 16.60 |      | 130.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)   | X | 5.39 | 66.50 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.09 | 66.26 | 16.08 |      | 130.0 |         |
|           |                                                     | Z | 5.24 | 66.41 | 16.25 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)   | X | 5.57 | 66.65 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.28 | 66.50 | 16.27 |      | 130.0 |         |
|           |                                                     | Z | 5.43 | 66.60 | 16.41 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)   | X | 5.95 | 67.60 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.47 | 66.93 | 16.54 |      | 130.0 |         |
|           |                                                     | Z | 5.78 | 67.52 | 16.92 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)   | X | 5.69 | 66.66 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.47 | 66.52 | 16.20 |      | 130.0 |         |
|           |                                                     | Z | 5.58 | 66.62 | 16.32 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)   | X | 5.93 | 67.17 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.68 | 67.03 | 16.42 |      | 130.0 |         |
|           |                                                     | Z | 5.81 | 67.13 | 16.53 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)   | X | 5.75 | 66.83 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.47 | 66.49 | 16.08 |      | 130.0 |         |
|           |                                                     | Z | 5.62 | 66.72 | 16.26 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)   | X | 5.84 | 66.89 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.54 | 66.58 | 16.11 |      | 130.0 |         |
|           |                                                     | Z | 5.69 | 66.77 | 16.28 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)   | X | 6.32 | 68.50 | 17.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.80 | 67.56 | 16.61 |      | 130.0 |         |
|           |                                                     | Z | 6.08 | 68.11 | 16.95 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)   | X | 6.24 | 68.33 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.82 | 67.73 | 16.91 |      | 130.0 |         |
|           |                                                     | Z | 6.02 | 68.04 | 17.10 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)   | X | 5.92 | 67.28 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.67 | 67.20 | 16.66 |      | 130.0 |         |
|           |                                                     | Z | 5.78 | 67.21 | 16.71 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)   | X | 5.85 | 67.08 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.54 | 66.71 | 16.23 |      | 130.0 |         |
|           |                                                     | Z | 5.68 | 66.89 | 16.38 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)   | X | 5.83 | 67.07 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.53 | 66.80 | 16.33 |      | 130.0 |         |
|           |                                                     | Z | 5.67 | 66.93 | 16.46 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)   | X | 5.71 | 66.41 | 15.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.38 | 65.97 | 15.62 |      | 130.0 |         |
|           |                                                     | Z | 5.55 | 66.26 | 15.86 |      | 130.0 |         |
| 10636-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.09 | 67.04 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.89 | 66.86 | 16.27 |      | 130.0 |         |
|           |                                                     | Z | 5.99 | 66.97 | 16.40 |      | 130.0 |         |
| 10637-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.26 | 67.43 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.01 | 67.17 | 16.41 |      | 130.0 |         |
|           |                                                     | Z | 6.13 | 67.33 | 16.55 |      | 130.0 |         |
| 10638-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.26 | 67.39 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.03 | 67.19 | 16.40 |      | 130.0 |         |
|           |                                                     | Z | 6.14 | 67.32 | 16.53 |      | 130.0 |         |

|           |                                                        |   |       |        |       |      |       |         |
|-----------|--------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10639-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)    | X | 6.26  | 67.42  | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.00  | 67.12  | 16.41 |      | 130.0 |         |
|           |                                                        | Z | 6.12  | 67.28  | 16.55 |      | 130.0 |         |
| 10640-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)    | X | 6.28  | 67.48  | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.98  | 67.06  | 16.32 |      | 130.0 |         |
|           |                                                        | Z | 6.13  | 67.29  | 16.50 |      | 130.0 |         |
| 10641-AAA | IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)    | X | 6.28  | 67.23  | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.04  | 67.02  | 16.32 |      | 130.0 |         |
|           |                                                        | Z | 6.16  | 67.17  | 16.46 |      | 130.0 |         |
| 10642-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)    | X | 6.36  | 67.58  | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.09  | 67.33  | 16.65 |      | 130.0 |         |
|           |                                                        | Z | 6.22  | 67.46  | 16.77 |      | 130.0 |         |
| 10643-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)    | X | 6.18  | 67.24  | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.92  | 66.95  | 16.34 |      | 130.0 |         |
|           |                                                        | Z | 6.05  | 67.12  | 16.50 |      | 130.0 |         |
| 10644-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)    | X | 6.39  | 67.89  | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.01  | 67.25  | 16.52 |      | 130.0 |         |
|           |                                                        | Z | 6.21  | 67.63  | 16.78 |      | 130.0 |         |
| 10645-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)    | X | 6.72  | 68.40  | 17.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.11  | 67.20  | 16.45 |      | 130.0 |         |
|           |                                                        | Z | 6.55  | 68.24  | 17.03 |      | 130.0 |         |
| 10646-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 29.42 | 112.83 | 36.95 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 10.25 | 91.82  | 29.43 |      | 60.0  |         |
|           |                                                        | Z | 21.98 | 108.36 | 35.43 |      | 60.0  |         |
| 10647-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 28.52 | 112.91 | 37.11 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 9.40  | 90.67  | 29.15 |      | 60.0  |         |
|           |                                                        | Z | 20.39 | 107.51 | 35.32 |      | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.91  | 66.53  | 13.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.66  | 64.14  | 10.70 |      | 150.0 |         |
|           |                                                        | Z | 0.80  | 65.69  | 12.34 |      | 150.0 |         |

<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.

A2587

Checked M. Nasee  
14/09/2017

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



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Accreditation No.: **SCS 0108**

Client **UL RFI UK**

Certificate No: **ES3-3341\_Aug17**

## CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3341**

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

Calibration date: **August 14, 2017**

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

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

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-17 (No. 217-02521/02522)   | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-17 (No. 217-02521)         | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-17 (No. 217-02525)         | Apr-18                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 07-Apr-17 (No. 217-02528)         | Apr-18                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-16 (No. ES3-3013_Dec16)    | Dec-17                 |
| DAE4                       | SN: 660          | 7-Dec-16 (No. DAE4-660_Dec16)     | Dec-17                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-16) | In house check: Oct-17 |

|                                                                                                                 | Name           | Function              | Signature               |
|-----------------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------------------------|
| Calibrated by:                                                                                                  | Jeton Kastrati | Laboratory Technician |                         |
| Approved by:                                                                                                    | Katja Pokovic  | Technical Manager     |                         |
|                                                                                                                 |                |                       | Issued: August 14, 2017 |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                |                       |                         |



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Accreditation No.: **SCS 0108**

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## Glossary:

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

## Calibration is Performed According to the Following Standards:

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

## Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the  $E^2$ -field uncertainty inside TSL (see below *ConvF*).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# Probe ES3DV3

## SN:3341

Manufactured: March 15, 2012  
Calibrated: August 14, 2017

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

# DASY/EASY - Parameters of Probe: ES3DV3 - SN:3341

## Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 1.01     | 1.12     | 1.05     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 105.8    | 103.9    | 103.8    |               |

## 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    | 192.2    | $\pm 3.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 219.6    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 218.4    |                           |

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 | 48.77    | 343.2    | 34.30                       | 28.07                               | 2.137                               | 5.1      | 0.948                 | 0.414                 | 1.008 |
| Y | 50.86    | 363.2    | 35.25                       | 29.59                               | 3.076                               | 5.1      | 0.444                 | 0.620                 | 1.008 |
| Z | 53.31    | 376.4    | 34.58                       | 29.08                               | 2.610                               | 5.1      | 1.016                 | 0.478                 | 1.011 |

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

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -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: ES3DV3 - SN:3341

### 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                            | 6.69    | 6.69    | 6.69    | 0.47               | 1.51                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 6.42    | 6.42    | 6.42    | 0.56               | 1.37                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 6.32    | 6.32    | 6.32    | 0.80               | 1.12                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 5.65    | 5.65    | 5.65    | 0.68               | 1.21                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 5.47    | 5.47    | 5.47    | 0.74               | 1.22                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 5.28    | 5.28    | 5.28    | 0.70               | 1.22                    | ± 12.0 %  |
| 2100                 | 39.8                               | 1.49                            | 5.24    | 5.24    | 5.24    | 0.59               | 1.44                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 4.90    | 4.90    | 4.90    | 0.80               | 1.24                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 4.64    | 4.64    | 4.64    | 0.80               | 1.26                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 4.50    | 4.50    | 4.50    | 0.73               | 1.35                    | ± 12.0 %  |

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

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

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

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3341

### 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                            | 6.50    | 6.50    | 6.50    | 0.80               | 1.17                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 6.34    | 6.34    | 6.34    | 0.59               | 1.37                    | ± 12.0 %  |
| 900                  | 55.0                               | 1.05                            | 6.24    | 6.24    | 6.24    | 0.80               | 1.14                    | ± 12.0 %  |
| 1450                 | 54.0                               | 1.30                            | 5.41    | 5.41    | 5.41    | 0.75               | 1.17                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 5.12    | 5.12    | 5.12    | 0.66               | 1.36                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 4.92    | 4.92    | 4.92    | 0.52               | 1.53                    | ± 12.0 %  |
| 2100                 | 53.2                               | 1.62                            | 5.16    | 5.16    | 5.16    | 0.52               | 1.59                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 4.66    | 4.66    | 4.66    | 0.66               | 1.43                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 4.50    | 4.50    | 4.50    | 0.80               | 1.14                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 4.32    | 4.32    | 4.32    | 0.80               | 1.17                    | ± 12.0 %  |

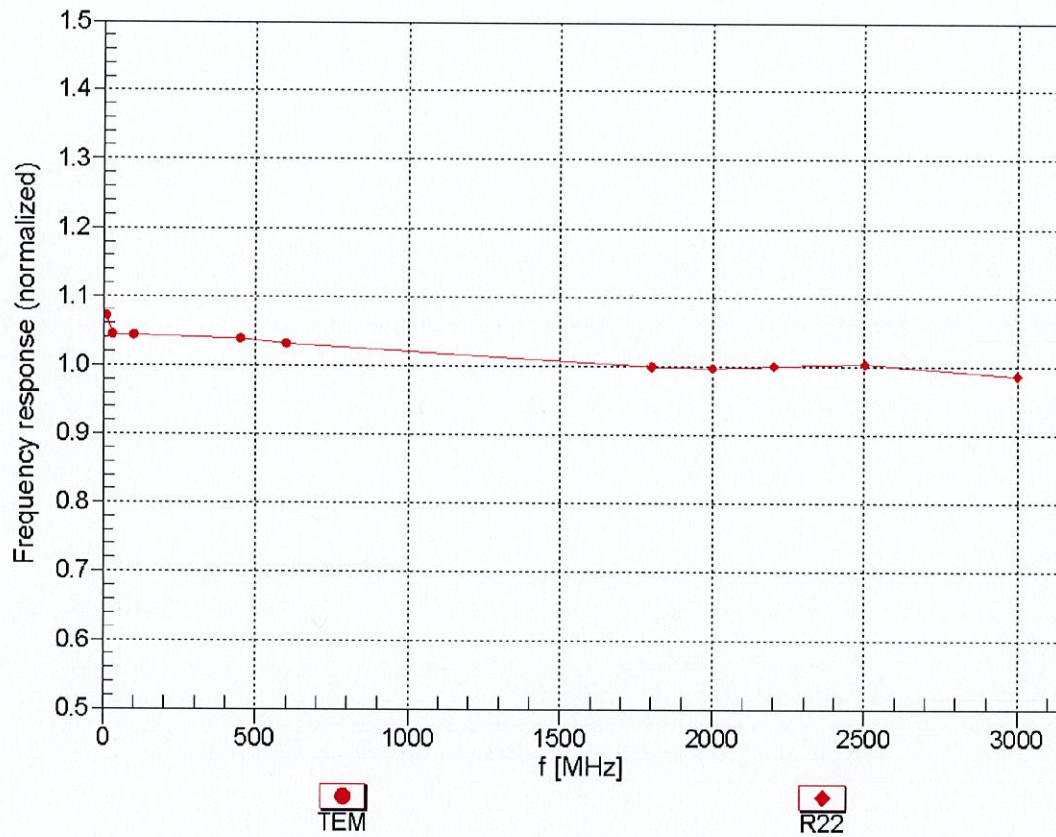
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below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

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

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

## Frequency Response of E-Field

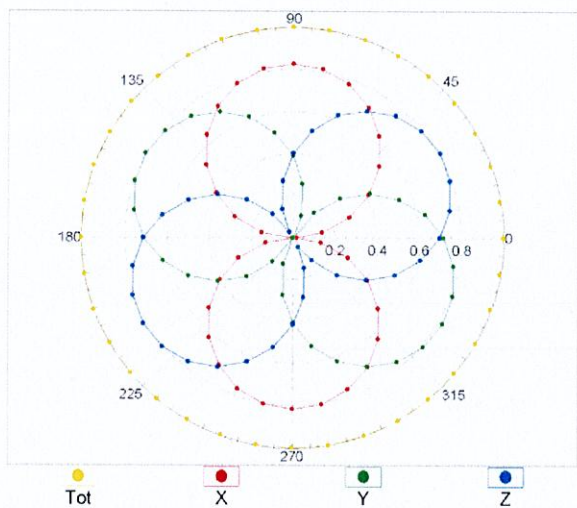
(TEM-Cell:ifi110 EXX, Waveguide: R22)



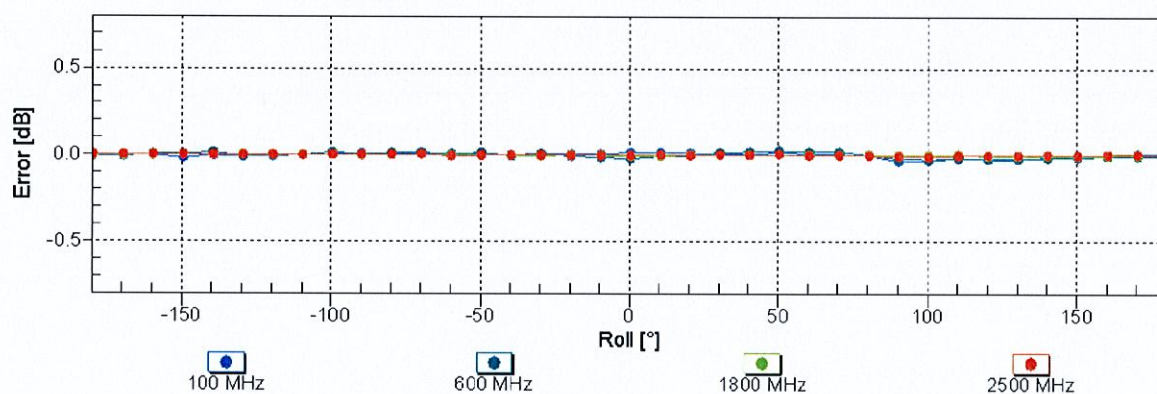
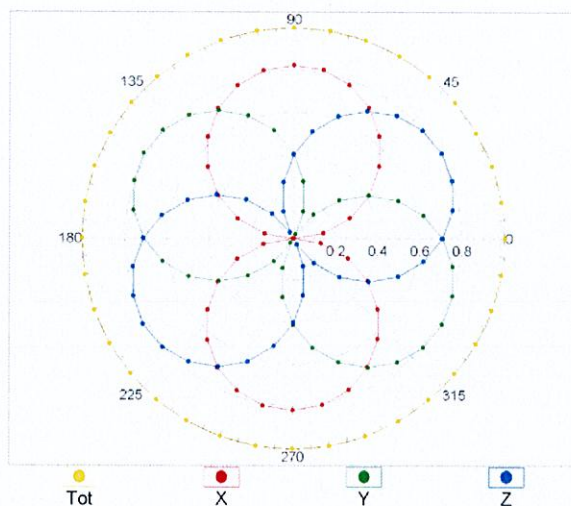
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz,TEM

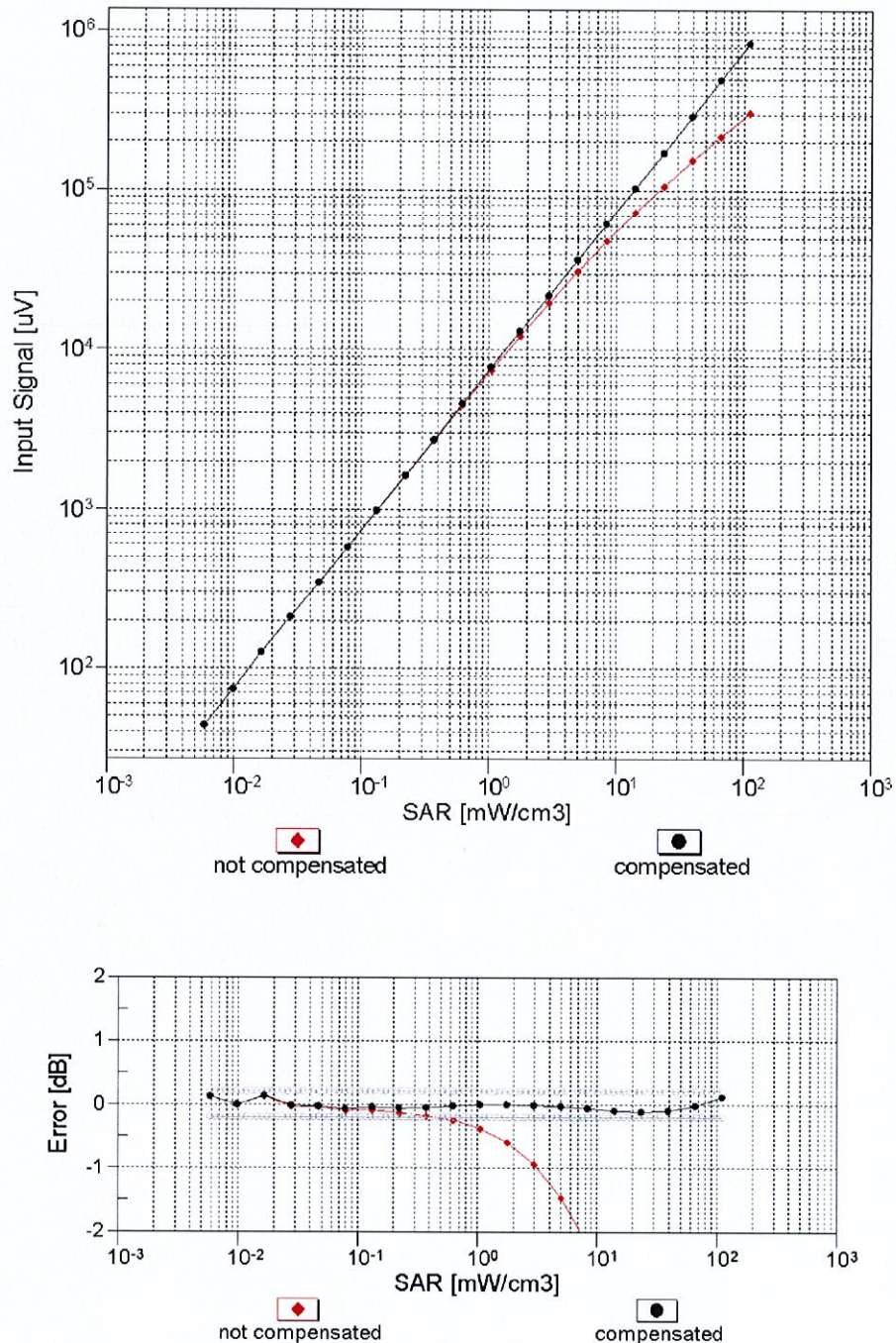


f=1800 MHz,R22



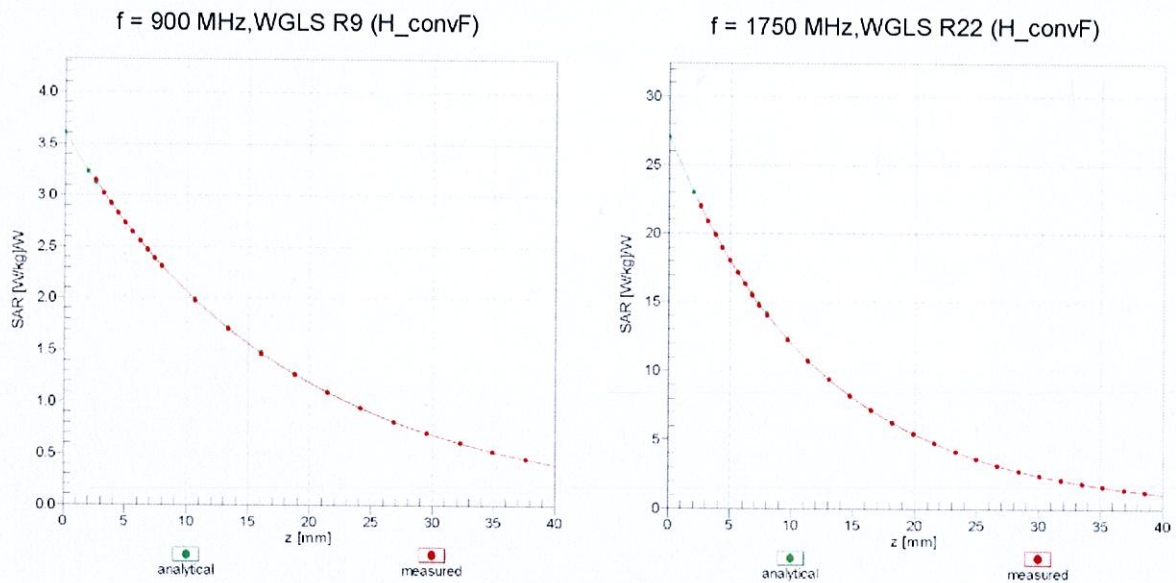
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

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



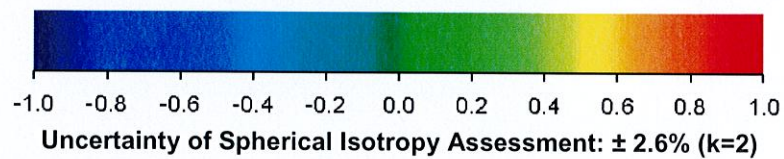
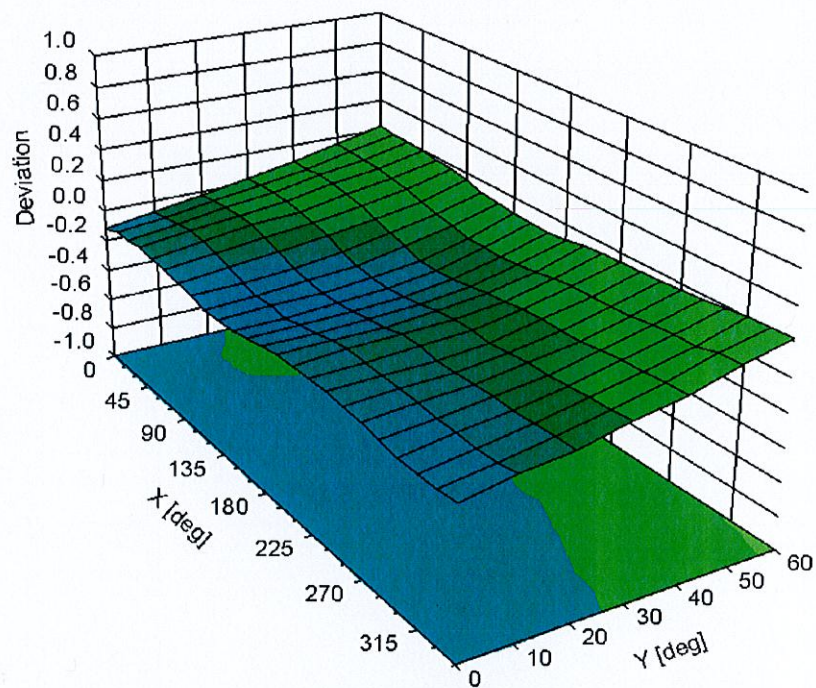
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3341

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 110.5      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 10 mm      |
| Tip Diameter                                  | 4 mm       |
| Probe Tip to Sensor X Calibration Point       | 2 mm       |
| Probe Tip to Sensor Y Calibration Point       | 2 mm       |
| Probe Tip to Sensor Z Calibration Point       | 2 mm       |
| Recommended Measurement Distance from Surface | 3 mm       |

**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    | 192.2    | $\pm 3.5 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 219.6    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 218.4    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 11.77   | 84.95                  | 20.71 | 10.00   | 25.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 11.70   | 85.01                  | 21.67 |         | 25.0     |                                  |
|               |                                               | Z | 11.12   | 83.97                  | 20.79 |         | 25.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.16    | 69.59                  | 16.54 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.23    | 70.45                  | 17.19 |         | 150.0    |                                  |
|               |                                               | Z | 1.33    | 72.17                  | 18.05 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.34    | 65.82                  | 16.33 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.38    | 66.20                  | 16.72 |         | 150.0    |                                  |
|               |                                               | Z | 1.38    | 66.57                  | 16.98 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.08    | 67.51                  | 17.54 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.16    | 67.59                  | 17.67 |         | 150.0    |                                  |
|               |                                               | Z | 5.14    | 67.58                  | 17.67 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 64.07   | 114.61                 | 31.37 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 28.19   | 102.12                 | 29.02 |         | 50.0     |                                  |
|               |                                               | Z | 31.75   | 103.35                 | 28.77 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 46.47   | 109.30                 | 30.01 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 23.81   | 99.02                  | 28.12 |         | 50.0     |                                  |
|               |                                               | Z | 26.57   | 100.24                 | 27.91 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 118.78                 | 30.51 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 121.23                 | 32.20 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 119.63                 | 31.18 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 27.00   | 119.44                 | 45.63 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 14.76   | 97.35                  | 36.91 |         | 50.0     |                                  |
|               |                                               | Z | 22.67   | 112.18                 | 42.82 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 27.01   | 113.06                 | 39.23 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 17.37   | 99.87                  | 34.54 |         | 60.0     |                                  |
|               |                                               | Z | 24.42   | 109.33                 | 37.88 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 118.08                 | 29.30 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 120.43                 | 30.84 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 118.89                 | 29.90 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 118.78                 | 28.82 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 121.13                 | 30.29 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 119.64                 | 29.41 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 15.37   | 99.43                  | 33.58 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 12.37   | 92.65                  | 30.95 |         | 80.0     |                                  |
|               |                                               | Z | 15.60   | 98.89                  | 33.30 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 117.33                 | 29.27 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 119.76                 | 30.87 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 118.25                 | 29.94 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 120.85                 | 28.18 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 123.90                 | 29.85 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 122.64                 | 29.12 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 127.28 | 29.77 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 131.13 | 31.73 |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 130.43 | 31.23 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 28.35  | 104.49 | 28.74 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 19.42  | 98.18  | 27.36 |       | 70.0  |         |
|           |                                                     | Z | 26.15  | 103.39 | 28.77 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 12.89  | 94.95  | 24.24 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 14.66  | 97.12  | 25.29 |       | 100.0 |         |
|           |                                                     | Z | 18.65  | 101.14 | 26.48 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 6.42   | 86.68  | 21.43 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.81   | 89.63  | 22.75 |       | 100.0 |         |
|           |                                                     | Z | 9.39   | 92.83  | 23.84 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 37.95  | 109.43 | 30.15 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 23.85  | 101.81 | 28.49 |       | 70.0  |         |
|           |                                                     | Z | 33.73  | 107.81 | 30.06 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 11.76  | 93.69  | 23.84 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 13.28  | 95.70  | 24.85 |       | 100.0 |         |
|           |                                                     | Z | 17.20  | 99.98  | 26.12 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 6.67   | 87.52  | 21.81 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 8.22   | 90.68  | 23.18 |       | 100.0 |         |
|           |                                                     | Z | 9.97   | 94.04  | 24.31 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 2.26   | 75.31  | 17.21 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.82   | 78.50  | 18.77 |       | 150.0 |         |
|           |                                                     | Z | 3.13   | 80.17  | 19.55 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 117.44 | 30.12 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 120.01 | 31.91 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 118.36 | 30.85 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.01   | 123.42 | 2.27  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.01   | 107.31 | 2.95  |       | 150.0 |         |
|           |                                                     | Z | 0.01   | 124.33 | 13.05 |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 15.99  | 90.67  | 26.29 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 12.70  | 85.67  | 25.48 |       | 25.0  |         |
|           |                                                     | Z | 13.03  | 86.33  | 25.21 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 21.41  | 96.29  | 26.69 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 15.66  | 91.00  | 25.96 |       | 40.0  |         |
|           |                                                     | Z | 16.31  | 91.45  | 25.57 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 17.62  | 93.73  | 26.56 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 13.70  | 88.61  | 25.34 |       | 50.0  |         |
|           |                                                     | Z | 15.26  | 90.81  | 25.87 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 10.40  | 91.17  | 29.91 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 9.39   | 87.53  | 28.39 |       | 100.0 |         |
|           |                                                     | Z | 11.02  | 91.80  | 30.08 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.52   | 68.18  | 17.49 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.60   | 68.72  | 17.92 |       | 110.0 |         |
|           |                                                     | Z | 1.61   | 69.28  | 18.27 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 133.29 | 34.55 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 134.12 | 35.17 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 134.37 | 35.14 |       | 110.0 |         |

|           |                                                |   |       |        |       |      |       |         |
|-----------|------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 16.43 | 105.29 | 29.85 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 14.80 | 103.05 | 29.40 |      | 110.0 |         |
|           |                                                | Z | 25.40 | 112.76 | 32.07 |      | 110.0 |         |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.79  | 67.25  | 16.81 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86  | 67.31  | 16.95 |      | 100.0 |         |
|           |                                                | Z | 4.86  | 67.34  | 16.96 |      | 100.0 |         |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.83  | 67.41  | 16.95 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.91  | 67.49  | 17.09 |      | 100.0 |         |
|           |                                                | Z | 4.90  | 67.50  | 17.10 |      | 100.0 |         |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.13  | 67.69  | 17.20 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.21  | 67.78  | 17.34 |      | 100.0 |         |
|           |                                                | Z | 5.21  | 67.80  | 17.34 |      | 100.0 |         |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.04  | 67.73  | 17.38 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.13  | 67.84  | 17.53 |      | 100.0 |         |
|           |                                                | Z | 5.13  | 67.86  | 17.53 |      | 100.0 |         |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.10  | 67.86  | 17.61 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.20  | 67.99  | 17.76 |      | 100.0 |         |
|           |                                                | Z | 5.19  | 68.00  | 17.76 |      | 100.0 |         |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.43  | 68.13  | 18.11 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.53  | 68.21  | 18.23 |      | 100.0 |         |
|           |                                                | Z | 5.51  | 68.20  | 18.23 |      | 100.0 |         |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.54  | 68.37  | 18.45 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.66  | 68.51  | 18.58 |      | 100.0 |         |
|           |                                                | Z | 5.65  | 68.53  | 18.60 |      | 100.0 |         |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.63  | 68.40  | 18.66 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.75  | 68.51  | 18.78 |      | 100.0 |         |
|           |                                                | Z | 5.73  | 68.51  | 18.80 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.22  | 67.75  | 17.93 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.32  | 67.85  | 18.06 |      | 100.0 |         |
|           |                                                | Z | 5.29  | 67.83  | 18.06 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.28  | 68.29  | 18.26 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.39  | 68.43  | 18.41 |      | 100.0 |         |
|           |                                                | Z | 5.36  | 68.42  | 18.41 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.42  | 68.68  | 18.71 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.55  | 68.84  | 18.85 |      | 100.0 |         |
|           |                                                | Z | 5.51  | 68.81  | 18.85 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.46  | 68.77  | 18.97 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.61  | 68.94  | 19.11 |      | 100.0 |         |
|           |                                                | Z | 5.56  | 68.91  | 19.11 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.60  | 69.19  | 19.44 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.77  | 69.41  | 19.59 |      | 90.0  |         |
|           |                                                | Z | 5.71  | 69.40  | 19.62 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.64  | 69.07  | 19.62 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.81  | 69.28  | 19.75 |      | 90.0  |         |
|           |                                                | Z | 5.74  | 69.24  | 19.77 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.68  | 69.18  | 19.73 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.86  | 69.39  | 19.86 |      | 90.0  |         |
|           |                                                | Z | 5.79  | 69.36  | 19.88 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.99   | 68.53  | 13.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.14   | 70.36  | 15.19 |      | 150.0 |         |
|           |                                                     | Z | 1.29   | 72.41  | 16.26 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 2.06   | 64.03  | 8.76  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 2.50   | 65.44  | 10.06 |      | 80.0  |         |
|           |                                                     | Z | 2.30   | 64.77  | 9.41  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 118.86 | 30.57 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 121.32 | 32.26 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 119.71 | 31.24 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.92   | 68.75  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.99   | 69.24  | 16.73 |      | 150.0 |         |
|           |                                                     | Z | 2.02   | 69.67  | 16.99 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.89   | 68.73  | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.96   | 69.23  | 16.71 |      | 150.0 |         |
|           |                                                     | Z | 1.99   | 69.68  | 16.99 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 26.83  | 112.84 | 39.16 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 17.30  | 99.73  | 34.49 |      | 60.0  |         |
|           |                                                     | Z | 24.24  | 109.11 | 37.81 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.28   | 71.31  | 17.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.39   | 71.75  | 17.51 |      | 150.0 |         |
|           |                                                     | Z | 3.48   | 72.34  | 17.75 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.32   | 68.12  | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.38   | 68.30  | 16.45 |      | 150.0 |         |
|           |                                                     | Z | 3.41   | 68.57  | 16.57 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.41   | 68.03  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.48   | 68.21  | 16.51 |      | 150.0 |         |
|           |                                                     | Z | 3.50   | 68.43  | 16.60 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 9.00   | 79.68  | 21.93 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.91   | 78.91  | 21.73 |      | 65.0  |         |
|           |                                                     | Z | 9.13   | 79.55  | 21.91 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 8.64   | 77.77  | 22.01 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.67   | 77.16  | 21.81 |      | 65.0  |         |
|           |                                                     | Z | 8.82   | 77.78  | 22.06 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 8.20   | 76.71  | 21.86 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.56   | 74.43  | 20.90 |      | 65.0  |         |
|           |                                                     | Z | 7.76   | 75.23  | 21.24 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.86   | 70.55  | 17.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.96   | 71.00  | 17.38 |      | 150.0 |         |
|           |                                                     | Z | 3.05   | 71.55  | 17.61 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.97   | 68.00  | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.04   | 68.24  | 16.42 |      | 150.0 |         |
|           |                                                     | Z | 3.07   | 68.49  | 16.54 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.34   | 69.78  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.43   | 70.25  | 17.11 |      | 150.0 |         |
|           |                                                     | Z | 2.51   | 70.83  | 17.39 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.69   | 68.84  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.78   | 69.29  | 16.86 |      | 150.0 |         |
|           |                                                     | Z | 2.80   | 69.43  | 16.96 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.09 | 67.94 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.16 | 68.17 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 3.19 | 68.37 | 16.54 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.83 | 68.92 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.93 | 69.35 | 16.95 |      | 150.0 |         |
|           |                                                | Z | 2.95 | 69.44 | 17.01 |      | 150.0 |         |
| 10114-CAB | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.18 | 67.58 | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.24 | 67.63 | 16.73 |      | 150.0 |         |
|           |                                                | Z | 5.23 | 67.66 | 16.72 |      | 150.0 |         |
| 10115-CAB | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.47 | 67.72 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.55 | 67.81 | 16.82 |      | 150.0 |         |
|           |                                                | Z | 5.57 | 67.91 | 16.85 |      | 150.0 |         |
| 10116-CAB | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.28 | 67.78 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.35 | 67.86 | 16.77 |      | 150.0 |         |
|           |                                                | Z | 5.35 | 67.91 | 16.77 |      | 150.0 |         |
| 10117-CAB | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.14 | 67.43 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 67.49 | 16.68 |      | 150.0 |         |
|           |                                                | Z | 5.21 | 67.57 | 16.69 |      | 150.0 |         |
| 10118-CAB | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.56 | 67.95 | 16.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.64 | 68.06 | 16.96 |      | 150.0 |         |
|           |                                                | Z | 5.65 | 68.13 | 16.97 |      | 150.0 |         |
| 10119-CAB | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.25 | 67.73 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.32 | 67.80 | 16.75 |      | 150.0 |         |
|           |                                                | Z | 5.32 | 67.84 | 16.75 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.45 | 68.04 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.52 | 68.22 | 16.43 |      | 150.0 |         |
|           |                                                | Z | 3.54 | 68.44 | 16.52 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.57 | 68.10 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.64 | 68.27 | 16.57 |      | 150.0 |         |
|           |                                                | Z | 3.66 | 68.46 | 16.65 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.13 | 69.92 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.23 | 70.57 | 16.97 |      | 150.0 |         |
|           |                                                | Z | 2.31 | 71.18 | 17.31 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.57 | 69.75 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.71 | 70.46 | 16.82 |      | 150.0 |         |
|           |                                                | Z | 2.74 | 70.60 | 16.96 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.34 | 67.50 | 14.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.43 | 67.88 | 15.09 |      | 150.0 |         |
|           |                                                | Z | 2.49 | 68.25 | 15.36 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.35 | 66.69 | 12.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.52 | 68.13 | 13.74 |      | 150.0 |         |
|           |                                                | Z | 1.65 | 69.31 | 14.51 |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 2.39 | 68.75 | 12.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.84 | 70.82 | 14.30 |      | 150.0 |         |
|           |                                                | Z | 4.22 | 76.23 | 16.81 |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 2.97 | 71.46 | 14.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.84 | 74.81 | 16.11 |      | 150.0 |         |
|           |                                                | Z | 6.50 | 82.09 | 19.11 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.98 | 68.05 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.05 | 68.30 | 16.47 |      | 150.0 |         |
|           |                                            | Z | 3.08 | 68.55 | 16.59 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.10 | 67.99 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.17 | 68.22 | 16.48 |      | 150.0 |         |
|           |                                            | Z | 3.19 | 68.42 | 16.58 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 9.85 | 82.63 | 23.13 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 9.61 | 81.54 | 22.83 |      | 65.0  |         |
|           |                                            | Z | 9.90 | 82.28 | 23.06 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 8.31 | 78.11 | 21.87 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.31 | 77.42 | 21.65 |      | 65.0  |         |
|           |                                            | Z | 8.51 | 78.16 | 21.97 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 8.72 | 78.93 | 22.53 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.72 | 78.26 | 22.32 |      | 65.0  |         |
|           |                                            | Z | 8.89 | 78.89 | 22.59 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.39 | 70.16 | 16.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.49 | 70.74 | 17.40 |      | 150.0 |         |
|           |                                            | Z | 2.57 | 71.28 | 17.66 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.69 | 68.86 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.78 | 69.30 | 16.88 |      | 150.0 |         |
|           |                                            | Z | 2.80 | 69.44 | 16.97 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.99 | 70.18 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.12 | 71.04 | 16.98 |      | 150.0 |         |
|           |                                            | Z | 2.21 | 71.75 | 17.38 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.20 | 68.24 | 14.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.31 | 68.86 | 15.35 |      | 150.0 |         |
|           |                                            | Z | 2.38 | 69.29 | 15.67 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.84 | 68.98 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94 | 69.42 | 17.00 |      | 150.0 |         |
|           |                                            | Z | 2.95 | 69.50 | 17.06 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.31 | 68.65 | 15.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.44 | 69.37 | 15.65 |      | 150.0 |         |
|           |                                            | Z | 2.50 | 69.73 | 15.94 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.85 | 69.51 | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.95 | 69.91 | 17.08 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 70.20 | 17.23 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.99 | 67.94 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.06 | 68.19 | 16.44 |      | 150.0 |         |
|           |                                            | Z | 3.09 | 68.37 | 16.54 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.10 | 68.07 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.17 | 68.30 | 16.52 |      | 150.0 |         |
|           |                                            | Z | 3.20 | 68.46 | 16.61 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.81 | 70.86 | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.90 | 70.80 | 19.84 |      | 150.0 |         |
|           |                                            | Z | 4.07 | 71.79 | 20.42 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.93 | 74.58 | 20.52 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.00 | 74.16 | 20.43 |      | 150.0 |         |
|           |                                            | Z | 5.45 | 75.97 | 21.32 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.48  | 76.84  | 21.79 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.57  | 76.54  | 21.78 |      | 150.0 |         |
|           |                                            | Z | 6.08  | 78.33  | 22.61 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.32  | 71.13  | 19.93 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.45  | 71.08  | 19.96 |      | 150.0 |         |
|           |                                            | Z | 3.72  | 73.07  | 21.03 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 4.98  | 78.47  | 22.64 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.06  | 77.78  | 22.45 |      | 150.0 |         |
|           |                                            | Z | 6.07  | 81.80  | 24.15 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 4.04  | 74.02  | 19.88 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.11  | 73.30  | 19.65 |      | 150.0 |         |
|           |                                            | Z | 4.79  | 76.62  | 21.18 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 39.60 | 117.75 | 36.21 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 21.01 | 103.29 | 31.96 |      | 65.0  |         |
|           |                                            | Z | 53.37 | 122.88 | 37.68 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 59.16 | 118.75 | 34.39 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 29.22 | 104.97 | 30.81 |      | 65.0  |         |
|           |                                            | Z | 68.98 | 121.10 | 35.20 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 39.27 | 109.88 | 31.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 22.82 | 99.34  | 28.67 |      | 65.0  |         |
|           |                                            | Z | 47.20 | 112.58 | 32.42 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.28  | 70.83  | 19.70 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.40  | 70.74  | 19.71 |      | 150.0 |         |
|           |                                            | Z | 3.67  | 72.72  | 20.78 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 4.99  | 78.50  | 22.65 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.07  | 77.81  | 22.46 |      | 150.0 |         |
|           |                                            | Z | 6.08  | 81.83  | 24.16 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.31  | 70.98  | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.43  | 70.91  | 19.80 |      | 150.0 |         |
|           |                                            | Z | 3.70  | 72.89  | 20.87 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 4.94  | 78.28  | 22.54 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.01  | 77.56  | 22.34 |      | 150.0 |         |
|           |                                            | Z | 6.00  | 81.53  | 24.02 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 4.48  | 76.14  | 21.13 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.55  | 75.41  | 20.92 |      | 150.0 |         |
|           |                                            | Z | 5.38  | 79.09  | 22.53 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 4.03  | 73.95  | 19.84 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.10  | 73.22  | 19.60 |      | 150.0 |         |
|           |                                            | Z | 4.77  | 76.53  | 21.12 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.30  | 70.96  | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.43  | 70.89  | 19.80 |      | 150.0 |         |
|           |                                            | Z | 3.70  | 72.87  | 20.87 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 4.93  | 78.25  | 22.53 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.00  | 77.54  | 22.33 |      | 150.0 |         |
|           |                                            | Z | 5.98  | 81.50  | 24.01 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 4.03  | 73.92  | 19.82 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.09  | 73.20  | 19.59 |      | 150.0 |         |
|           |                                            | Z | 4.76  | 76.50  | 21.11 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.31 | 71.00 | 19.80 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.44 | 70.93 | 19.82 |      | 150.0 |         |
|           |                                               | Z | 3.71 | 72.91 | 20.89 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 4.96 | 78.33 | 22.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.03 | 77.61 | 22.36 |      | 150.0 |         |
|           |                                               | Z | 6.02 | 81.59 | 24.05 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 4.05 | 74.00 | 19.86 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.11 | 73.26 | 19.63 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 76.58 | 21.15 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.32 | 71.06 | 19.86 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.45 | 70.99 | 19.88 |      | 150.0 |         |
|           |                                               | Z | 3.72 | 72.97 | 20.95 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 5.12 | 79.02 | 22.93 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.20 | 78.33 | 22.75 |      | 150.0 |         |
|           |                                               | Z | 6.26 | 82.43 | 24.46 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 4.14 | 74.45 | 20.14 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.21 | 73.72 | 19.91 |      | 150.0 |         |
|           |                                               | Z | 4.92 | 77.12 | 21.45 |      | 150.0 |         |
| 10193-CAB | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.57 | 66.99 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.62 | 67.03 | 16.44 |      | 150.0 |         |
|           |                                               | Z | 4.63 | 67.08 | 16.47 |      | 150.0 |         |
| 10194-CAB | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.74 | 67.31 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.80 | 67.35 | 16.57 |      | 150.0 |         |
|           |                                               | Z | 4.81 | 67.42 | 16.59 |      | 150.0 |         |
| 10195-CAB | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.78 | 67.34 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.84 | 67.38 | 16.58 |      | 150.0 |         |
|           |                                               | Z | 4.86 | 67.45 | 16.60 |      | 150.0 |         |
| 10196-CAB | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.57 | 67.05 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.63 | 67.10 | 16.47 |      | 150.0 |         |
|           |                                               | Z | 4.64 | 67.17 | 16.50 |      | 150.0 |         |
| 10197-CAB | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.76 | 67.33 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.81 | 67.37 | 16.58 |      | 150.0 |         |
|           |                                               | Z | 4.83 | 67.45 | 16.60 |      | 150.0 |         |
| 10198-CAB | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.79 | 67.35 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.84 | 67.40 | 16.59 |      | 150.0 |         |
|           |                                               | Z | 4.86 | 67.47 | 16.62 |      | 150.0 |         |
| 10219-CAB | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.52 | 67.07 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.58 | 67.12 | 16.43 |      | 150.0 |         |
|           |                                               | Z | 4.59 | 67.18 | 16.46 |      | 150.0 |         |
| 10220-CAB | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.75 | 67.30 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.81 | 67.35 | 16.57 |      | 150.0 |         |
|           |                                               | Z | 4.83 | 67.42 | 16.59 |      | 150.0 |         |
| 10221-CAB | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.79 | 67.28 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.85 | 67.32 | 16.58 |      | 150.0 |         |
|           |                                               | Z | 4.87 | 67.39 | 16.60 |      | 150.0 |         |
| 10222-CAB | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.12 | 67.44 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.18 | 67.50 | 16.67 |      | 150.0 |         |
|           |                                               | Z | 5.18 | 67.59 | 16.69 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAB | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.42  | 67.65  | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.49  | 67.72  | 16.80 |      | 150.0 |         |
|           |                                           | Z | 5.49  | 67.77  | 16.80 |      | 150.0 |         |
| 10224-CAB | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.16  | 67.56  | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.22  | 67.62  | 16.66 |      | 150.0 |         |
|           |                                           | Z | 5.23  | 67.69  | 16.67 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.85  | 66.65  | 15.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.91  | 66.82  | 15.84 |      | 150.0 |         |
|           |                                           | Z | 2.93  | 66.94  | 15.95 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 64.68 | 120.54 | 34.94 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 30.98 | 106.16 | 31.24 |      | 65.0  |         |
|           |                                           | Z | 74.96 | 122.80 | 35.72 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 47.90 | 113.36 | 32.47 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 26.69 | 102.19 | 29.59 |      | 65.0  |         |
|           |                                           | Z | 53.09 | 114.80 | 33.09 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 52.47 | 123.66 | 37.85 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 28.62 | 109.83 | 33.98 |      | 65.0  |         |
|           |                                           | Z | 69.49 | 128.65 | 39.27 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 59.15 | 118.74 | 34.40 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.28 | 104.99 | 30.83 |      | 65.0  |         |
|           |                                           | Z | 68.84 | 121.05 | 35.20 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 44.55 | 111.98 | 32.03 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 25.40 | 101.23 | 29.25 |      | 65.0  |         |
|           |                                           | Z | 49.73 | 113.52 | 32.68 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 48.53 | 121.96 | 37.34 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.05 | 108.60 | 33.56 |      | 65.0  |         |
|           |                                           | Z | 64.18 | 126.90 | 38.75 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 59.21 | 118.77 | 34.40 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.26 | 104.99 | 30.83 |      | 65.0  |         |
|           |                                           | Z | 68.91 | 121.08 | 35.21 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 44.59 | 112.01 | 32.04 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 25.40 | 101.23 | 29.25 |      | 65.0  |         |
|           |                                           | Z | 49.81 | 113.56 | 32.69 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 44.91 | 120.17 | 36.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 25.64 | 107.36 | 33.10 |      | 65.0  |         |
|           |                                           | Z | 59.17 | 125.01 | 38.16 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 59.58 | 118.89 | 34.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.35 | 105.05 | 30.85 |      | 65.0  |         |
|           |                                           | Z | 69.36 | 121.21 | 35.24 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 45.15 | 112.19 | 32.09 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 25.59 | 101.35 | 29.28 |      | 65.0  |         |
|           |                                           | Z | 50.40 | 113.74 | 32.74 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 49.26 | 122.29 | 37.42 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.25 | 108.77 | 33.61 |      | 65.0  |         |
|           |                                           | Z | 65.33 | 127.28 | 38.85 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 59.28 | 118.80 | 34.41 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.26 | 105.00 | 30.83 |      | 65.0  |         |
|           |                                           | Z | 69.05 | 121.13 | 35.22 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 44.60 | 112.03 | 32.05 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 25.38 | 101.24 | 29.25 |      | 65.0 |         |
|           |                                            | Z | 49.88 | 113.60 | 32.70 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 49.07 | 122.22 | 37.40 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 27.18 | 108.73 | 33.59 |      | 65.0 |         |
|           |                                            | Z | 65.07 | 127.21 | 38.83 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 13.71 | 90.37  | 28.82 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 12.80 | 87.53  | 27.71 |      | 65.0 |         |
|           |                                            | Z | 14.36 | 90.69  | 29.07 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 12.40 | 88.18  | 27.94 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 11.29 | 84.79  | 26.57 |      | 65.0 |         |
|           |                                            | Z | 12.89 | 88.28  | 28.10 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 9.72  | 84.74  | 27.62 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.20  | 82.08  | 26.39 |      | 65.0 |         |
|           |                                            | Z | 10.19 | 85.11  | 27.87 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 9.25  | 80.25  | 20.35 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.47  | 80.24  | 20.71 |      | 65.0 |         |
|           |                                            | Z | 10.50 | 82.36  | 21.64 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 8.98  | 79.54  | 20.03 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.25  | 79.62  | 20.42 |      | 65.0 |         |
|           |                                            | Z | 10.22 | 81.67  | 21.33 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 10.09 | 84.72  | 22.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.90  | 84.02  | 22.26 |      | 65.0 |         |
|           |                                            | Z | 10.60 | 85.41  | 22.76 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 7.74  | 78.37  | 20.42 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.89  | 78.13  | 20.56 |      | 65.0 |         |
|           |                                            | Z | 8.08  | 78.84  | 20.88 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 7.64  | 77.73  | 20.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.79  | 77.50  | 20.29 |      | 65.0 |         |
|           |                                            | Z | 8.00  | 78.24  | 20.64 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 11.77 | 87.81  | 24.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 11.04 | 86.23  | 23.77 |      | 65.0 |         |
|           |                                            | Z | 11.86 | 87.69  | 24.27 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 8.81  | 80.88  | 22.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.79  | 80.17  | 22.73 |      | 65.0 |         |
|           |                                            | Z | 8.99  | 80.87  | 23.01 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 8.24  | 78.58  | 21.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.25  | 77.91  | 21.53 |      | 65.0 |         |
|           |                                            | Z | 8.45  | 78.66  | 21.87 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 11.22 | 86.73  | 24.57 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.59 | 85.05  | 24.11 |      | 65.0 |         |
|           |                                            | Z | 11.17 | 86.23  | 24.50 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 8.11  | 77.54  | 21.63 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.13  | 76.89  | 21.43 |      | 65.0 |         |
|           |                                            | Z | 8.29  | 77.56  | 21.74 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 8.50  | 78.32  | 22.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.52  | 77.69  | 22.05 |      | 65.0 |         |
|           |                                            | Z | 8.67  | 78.29  | 22.31 |      | 65.0 |         |

|           |                                             |   |       |       |       |      |      |         |
|-----------|---------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 9.50  | 82.23 | 23.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.28  | 81.12 | 22.87 |      | 65.0 |         |
|           |                                             | Z | 9.56  | 81.89 | 23.13 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 7.55  | 76.58 | 18.01 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.09  | 77.28 | 18.71 |      | 65.0 |         |
|           |                                             | Z | 9.02  | 79.39 | 19.68 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 7.25  | 75.66 | 17.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.82  | 76.43 | 18.28 |      | 65.0 |         |
|           |                                             | Z | 8.67  | 78.44 | 19.23 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 7.76  | 79.90 | 19.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.11  | 80.21 | 20.17 |      | 65.0 |         |
|           |                                             | Z | 8.63  | 81.49 | 20.68 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 8.17  | 79.29 | 21.30 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.24  | 78.86 | 21.32 |      | 65.0 |         |
|           |                                             | Z | 8.44  | 79.56 | 21.64 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 8.12  | 78.90 | 21.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.21  | 78.51 | 21.19 |      | 65.0 |         |
|           |                                             | Z | 8.41  | 79.20 | 21.50 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 10.94 | 86.49 | 24.00 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 10.35 | 84.95 | 23.65 |      | 65.0 |         |
|           |                                             | Z | 11.01 | 86.28 | 24.11 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 8.80  | 80.83 | 22.85 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.77  | 80.11 | 22.69 |      | 65.0 |         |
|           |                                             | Z | 8.98  | 80.82 | 22.98 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 8.23  | 78.56 | 21.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.24  | 77.90 | 21.53 |      | 65.0 |         |
|           |                                             | Z | 8.44  | 78.64 | 21.86 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 11.12 | 86.55 | 24.49 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 10.51 | 84.88 | 24.03 |      | 65.0 |         |
|           |                                             | Z | 11.09 | 86.07 | 24.42 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 8.31  | 78.12 | 21.87 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.31  | 77.43 | 21.65 |      | 65.0 |         |
|           |                                             | Z | 8.51  | 78.16 | 21.97 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 8.72  | 78.92 | 22.52 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.72  | 78.25 | 22.32 |      | 65.0 |         |
|           |                                             | Z | 8.88  | 78.89 | 22.58 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 9.84  | 82.59 | 23.12 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.59  | 81.50 | 22.82 |      | 65.0 |         |
|           |                                             | Z | 9.88  | 82.24 | 23.04 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 8.71  | 77.45 | 22.00 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.76  | 76.90 | 21.81 |      | 65.0 |         |
|           |                                             | Z | 8.88  | 77.44 | 22.04 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 8.63  | 77.01 | 21.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.69  | 76.49 | 21.71 |      | 65.0 |         |
|           |                                             | Z | 8.80  | 77.01 | 21.93 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 8.97  | 79.18 | 21.97 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.96  | 78.55 | 21.81 |      | 65.0 |         |
|           |                                             | Z | 9.08  | 79.00 | 21.93 |      | 65.0 |         |

|           |                                                                    |   |       |       |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.65  | 67.13 | 15.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.70  | 67.29 | 15.83 |      | 150.0 |         |
|           |                                                                    | Z | 2.72  | 67.46 | 15.96 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.73  | 69.37 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.81  | 69.95 | 16.84 |      | 150.0 |         |
|           |                                                                    | Z | 1.88  | 70.81 | 17.28 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 5.09  | 68.71 | 13.09 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 6.06  | 70.67 | 14.82 |      | 50.0  |         |
|           |                                                                    | Z | 5.67  | 69.91 | 14.14 |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 8.76  | 79.21 | 19.95 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.05  | 79.20 | 20.58 |      | 50.0  |         |
|           |                                                                    | Z | 9.28  | 79.97 | 20.69 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 8.90  | 79.39 | 20.04 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.16  | 79.32 | 20.65 |      | 50.0  |         |
|           |                                                                    | Z | 9.42  | 80.16 | 20.78 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.70  | 71.20 | 15.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.97  | 73.19 | 16.38 |      | 150.0 |         |
|           |                                                                    | Z | 2.20  | 74.83 | 17.21 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.97  | 68.22 | 13.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.11  | 69.97 | 15.00 |      | 150.0 |         |
|           |                                                                    | Z | 1.25  | 71.94 | 16.04 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.44  | 74.70 | 17.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.89  | 78.82 | 19.13 |      | 150.0 |         |
|           |                                                                    | Z | 2.30  | 82.09 | 20.51 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 2.67  | 83.94 | 21.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 4.74  | 93.16 | 24.54 |      | 150.0 |         |
|           |                                                                    | Z | 5.66  | 96.41 | 25.74 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 12.83 | 87.84 | 25.32 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 11.83 | 85.37 | 24.71 |      | 50.0  |         |
|           |                                                                    | Z | 12.03 | 86.30 | 25.05 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.87  | 70.64 | 17.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.98  | 71.11 | 17.45 |      | 150.0 |         |
|           |                                                                    | Z | 3.06  | 71.66 | 17.68 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.72  | 69.29 | 14.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.89  | 70.57 | 15.84 |      | 150.0 |         |
|           |                                                                    | Z | 2.01  | 71.53 | 16.41 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 3.25  | 72.46 | 15.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.66  | 74.03 | 16.62 |      | 150.0 |         |
|           |                                                                    | Z | 4.96  | 78.57 | 18.67 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.25  | 66.78 | 12.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.44  | 67.57 | 13.01 |      | 150.0 |         |
|           |                                                                    | Z | 2.96  | 70.24 | 14.50 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.69  | 68.81 | 19.00 | 4.17 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 6.07  | 69.88 | 19.59 |      | 80.0  |         |
|           |                                                                    | Z | 5.85  | 69.05 | 19.23 |      | 80.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 6.22  | 69.66 | 19.91 | 4.96 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 6.35  | 69.57 | 19.82 |      | 80.0  |         |
|           |                                                                    | Z | 6.41  | 70.06 | 20.22 |      | 80.0  |         |

|           |                                                                     |   |       |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 6.07  | 69.74 | 19.95 | 4.96  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.22  | 69.68 | 19.87 |       | 80.0  |         |
|           |                                                                     | Z | 6.29  | 70.24 | 20.32 |       | 80.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.69  | 68.94 | 19.08 | 4.17  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.82  | 68.91 | 19.05 |       | 80.0  |         |
|           |                                                                     | Z | 5.87  | 69.33 | 19.39 |       | 80.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 10.20 | 85.60 | 27.54 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 12.17 | 88.27 | 28.30 |       | 50.0  |         |
|           |                                                                     | Z | 12.27 | 89.65 | 29.34 |       | 50.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 6.68  | 73.28 | 22.21 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 6.89  | 73.07 | 21.97 |       | 50.0  |         |
|           |                                                                     | Z | 7.09  | 74.31 | 22.86 |       | 50.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 6.79  | 74.03 | 22.37 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 8.53  | 79.44 | 25.00 |       | 50.0  |         |
|           |                                                                     | Z | 7.29  | 75.28 | 23.10 |       | 50.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 6.92  | 74.67 | 22.68 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 8.88  | 80.58 | 25.48 |       | 50.0  |         |
|           |                                                                     | Z | 7.44  | 75.97 | 23.42 |       | 50.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 6.79  | 73.62 | 22.41 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.00  | 73.38 | 22.14 |       | 50.0  |         |
|           |                                                                     | Z | 7.22  | 74.71 | 23.07 |       | 50.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 6.72  | 73.59 | 22.27 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 8.19  | 78.37 | 24.65 |       | 50.0  |         |
|           |                                                                     | Z | 7.16  | 74.69 | 22.93 |       | 50.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.24  | 69.84 | 16.68 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.35  | 70.28 | 17.01 |       | 150.0 |         |
|           |                                                                     | Z | 3.43  | 70.77 | 17.21 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 9.12  | 81.98 | 20.06 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 9.00  | 81.47 | 20.30 |       | 70.0  |         |
|           |                                                                     | Z | 9.17  | 81.74 | 20.13 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 12.85 | 90.26 | 25.38 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 11.82 | 87.94 | 24.94 |       | 30.0  |         |
|           |                                                                     | Z | 12.31 | 88.82 | 24.98 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.19  | 65.30 | 16.06 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.23  | 65.72 | 16.50 |       | 150.0 |         |
|           |                                                                     | Z | 1.23  | 66.05 | 16.74 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.67  | 67.19 | 16.55 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.74  | 67.25 | 16.68 |       | 150.0 |         |
|           |                                                                     | Z | 4.74  | 67.29 | 16.70 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.67  | 67.19 | 16.55 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.74  | 67.25 | 16.68 |       | 150.0 |         |
|           |                                                                     | Z | 4.74  | 67.29 | 16.70 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.74  | 67.39 | 16.45 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.80  | 67.42 | 16.57 |       | 150.0 |         |
|           |                                                                     | Z | 4.82  | 67.51 | 16.61 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.45  | 67.60 | 16.63 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.51  | 67.63 | 16.74 |       | 150.0 |         |
|           |                                                                     | Z | 5.50  | 67.63 | 16.72 |       | 150.0 |         |

|           |                                                                                |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 5.69   | 67.82  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.75   | 67.89  | 16.71 |      | 150.0 |         |
|           |                                                                                | Z | 5.76   | 67.98  | 16.73 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                     | X | 1.70   | 71.20  | 15.22 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.97   | 73.19  | 16.38 |      | 115.0 |         |
|           |                                                                                | Z | 2.20   | 74.83  | 17.21 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                     | X | 1.70   | 71.20  | 15.22 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.97   | 73.19  | 16.38 |      | 115.0 |         |
|           |                                                                                | Z | 2.20   | 74.83  | 17.21 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                           | X | 100.00 | 121.00 | 30.18 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 123.65 | 31.77 |      | 100.0 |         |
|           |                                                                                | Z | 100.00 | 123.29 | 31.57 |      | 100.0 |         |
| 10410-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 100.00 | 120.93 | 30.63 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 121.90 | 31.47 |      | 80.0  |         |
|           |                                                                                | Z | 100.00 | 121.97 | 31.42 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.04   | 63.74  | 15.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 1.06   | 64.00  | 15.53 |      | 150.0 |         |
|           |                                                                                | Z | 1.06   | 64.30  | 15.77 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.57   | 67.03  | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.63   | 67.07  | 16.51 |      | 150.0 |         |
|           |                                                                                | Z | 4.63   | 67.13  | 16.53 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.57   | 67.03  | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.63   | 67.07  | 16.51 |      | 150.0 |         |
|           |                                                                                | Z | 4.63   | 67.13  | 16.53 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.56   | 67.20  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.62   | 67.23  | 16.53 |      | 150.0 |         |
|           |                                                                                | Z | 4.63   | 67.29  | 16.55 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.58   | 67.14  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.64   | 67.18  | 16.53 |      | 150.0 |         |
|           |                                                                                | Z | 4.65   | 67.24  | 16.55 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 4.70   | 67.14  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.76   | 67.17  | 16.54 |      | 150.0 |         |
|           |                                                                                | Z | 4.77   | 67.23  | 16.56 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 4.87   | 67.45  | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.93   | 67.50  | 16.66 |      | 150.0 |         |
|           |                                                                                | Z | 4.95   | 67.57  | 16.68 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 4.79   | 67.41  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.85   | 67.45  | 16.63 |      | 150.0 |         |
|           |                                                                                | Z | 4.86   | 67.53  | 16.66 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.39   | 67.71  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.47   | 67.80  | 16.82 |      | 150.0 |         |
|           |                                                                                | Z | 5.46   | 67.84  | 16.82 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.40   | 67.75  | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.47   | 67.83  | 16.83 |      | 150.0 |         |
|           |                                                                                | Z | 5.47   | 67.85  | 16.82 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.41   | 67.71  | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.48   | 67.79  | 16.80 |      | 150.0 |         |
|           |                                                                | Z | 5.48   | 67.82  | 16.80 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.23   | 70.84  | 18.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.40   | 71.50  | 18.65 |      | 150.0 |         |
|           |                                                                | Z | 4.34   | 71.03  | 18.42 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.26   | 67.63  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.32   | 67.70  | 16.56 |      | 150.0 |         |
|           |                                                                | Z | 4.35   | 67.78  | 16.61 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.56   | 67.47  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.62   | 67.53  | 16.60 |      | 150.0 |         |
|           |                                                                | Z | 4.64   | 67.60  | 16.63 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.80   | 67.44  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.86   | 67.49  | 16.65 |      | 150.0 |         |
|           |                                                                | Z | 4.88   | 67.56  | 16.68 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.32   | 71.68  | 18.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.55   | 72.51  | 18.69 |      | 150.0 |         |
|           |                                                                | Z | 4.45   | 71.93  | 18.44 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 120.75 | 30.54 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 121.73 | 31.40 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 121.79 | 31.34 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.56   | 67.71  | 15.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.64   | 67.88  | 16.00 |      | 150.0 |         |
|           |                                                                | Z | 3.67   | 67.99  | 16.12 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.10   | 67.41  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.16   | 67.48  | 16.43 |      | 150.0 |         |
|           |                                                                | Z | 4.18   | 67.56  | 16.48 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.37   | 67.30  | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.43   | 67.36  | 16.51 |      | 150.0 |         |
|           |                                                                | Z | 4.44   | 67.43  | 16.54 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.56   | 67.21  | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.62   | 67.26  | 16.51 |      | 150.0 |         |
|           |                                                                | Z | 4.63   | 67.33  | 16.54 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.46   | 67.92  | 15.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.55   | 68.15  | 15.68 |      | 150.0 |         |
|           |                                                                | Z | 3.60   | 68.31  | 15.84 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.26   | 68.24  | 16.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.33   | 68.30  | 16.93 |      | 150.0 |         |
|           |                                                                | Z | 6.32   | 68.35  | 16.93 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.82   | 65.66  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.86   | 65.69  | 16.22 |      | 150.0 |         |
|           |                                                                | Z | 3.85   | 65.75  | 16.26 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.28   | 67.30  | 14.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.37   | 67.46  | 15.09 |      | 150.0 |         |
|           |                                                                | Z | 3.43   | 67.68  | 15.32 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.40   | 65.67  | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.40   | 65.41  | 15.82 |      | 150.0 |         |
|           |                                                                | Z | 4.52   | 65.78  | 16.10 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.02   | 70.67  | 17.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 1.10   | 71.91  | 18.42 |      | 150.0 |         |
|           |                                                                   | Z | 1.20   | 74.00  | 19.46 |      | 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 | 125.08 | 32.59 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 125.10 | 33.01 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 126.55 | 33.59 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 108.80 | 24.85 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 111.17 | 26.38 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 111.45 | 26.38 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 37.25  | 95.55  | 21.02 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.42 | 25.04 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 108.49 | 24.95 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 123.08 | 31.51 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.36 | 32.05 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 124.80 | 32.62 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 108.31 | 24.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.72 | 26.15 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 110.99 | 26.15 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 18.72  | 88.25  | 19.08 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.98 | 24.82 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 108.04 | 24.73 |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 123.30 | 31.61 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.57 | 32.15 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 125.01 | 32.71 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 108.47 | 24.68 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.87 | 26.23 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 111.15 | 26.22 |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 19.36  | 88.61  | 19.17 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.00 | 24.83 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 108.05 | 24.73 |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 123.33 | 31.61 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.59 | 32.15 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 125.05 | 32.72 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 108.42 | 24.65 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.83 | 26.20 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 111.10 | 26.20 |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 19.31  | 88.55  | 19.14 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.96 | 24.80 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 108.01 | 24.71 |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 123.30 | 31.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.57 | 32.14 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 125.02 | 32.71 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 108.43 | 24.66 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.84 | 26.21 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 111.11 | 26.20 |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 18.97  | 88.38  | 19.10 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.97 | 24.81 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 108.02 | 24.71 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 108.26 | 24.57 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 110.69 | 26.13 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 110.96 | 26.12 |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 18.57  | 88.13  | 19.02 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 107.92 | 24.79 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 107.97 | 24.69 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 26.79  | 103.84 | 28.37 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 32.17  | 106.51 | 29.39 |      | 80.0 |         |
|           |                                                                     | Z | 51.24  | 114.93 | 31.85 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 23.04  | 95.04  | 23.99 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 28.59  | 98.22  | 25.35 |      | 80.0 |         |
|           |                                                                     | Z | 50.42  | 106.87 | 27.79 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 16.75  | 89.80  | 22.11 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 21.79  | 93.49  | 23.66 |      | 80.0 |         |
|           |                                                                     | Z | 35.97  | 100.95 | 25.86 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.06   | 82.13  | 20.58 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 8.65   | 84.78  | 21.75 |      | 80.0 |         |
|           |                                                                     | Z | 9.08   | 85.81  | 22.16 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 8.61   | 81.24  | 19.80 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 11.44  | 85.14  | 21.47 |      | 80.0 |         |
|           |                                                                     | Z | 14.45  | 89.11  | 22.99 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.65   | 79.44  | 19.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.94   | 82.96  | 20.76 |      | 80.0 |         |
|           |                                                                     | Z | 12.26  | 86.56  | 22.20 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.11   | 82.90  | 21.80 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 8.12   | 84.53  | 22.56 |      | 80.0 |         |
|           |                                                                     | Z | 8.51   | 85.53  | 22.94 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.10   | 74.77  | 18.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.68   | 76.02  | 19.07 |      | 80.0 |         |
|           |                                                                     | Z | 5.67   | 76.21  | 19.22 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.97   | 74.06  | 18.07 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.52   | 75.26  | 18.77 |      | 80.0 |         |
|           |                                                                     | Z | 5.51   | 75.44  | 18.91 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.25   | 79.69  | 21.39 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.78   | 80.50  | 21.81 |      | 80.0 |         |
|           |                                                                     | Z | 7.06   | 81.38  | 22.12 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.94   | 73.38  | 19.02 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.27   | 73.98  | 19.41 |      | 80.0 |         |
|           |                                                                     | Z | 5.28   | 74.18  | 19.51 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.98   | 72.98  | 18.88 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.29   | 73.53  | 19.24 |      | 80.0 |         |
|           |                                                                     | Z | 5.29   | 73.71  | 19.34 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.74   | 76.28  | 20.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.10   | 76.81  | 20.58 |      | 80.0 |         |
|           |                                                                     | Z | 6.24   | 77.38  | 20.78 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.06   | 71.87  | 18.72 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.32   | 72.25  | 19.00 |      | 80.0 |         |
|           |                                                                     | Z | 5.33   | 72.45  | 19.08 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.10 | 71.62 | 18.63 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.35 | 71.98 | 18.90 |      | 80.0 |         |
|           |                                                                      | Z | 5.35 | 72.16 | 18.98 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.47 | 78.31 | 20.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.92 | 78.95 | 21.22 |      | 80.0 |         |
|           |                                                                      | Z | 7.18 | 79.71 | 21.46 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.15 | 72.37 | 18.96 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.42 | 72.79 | 19.24 |      | 80.0 |         |
|           |                                                                      | Z | 5.44 | 73.04 | 19.33 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.17 | 71.90 | 18.80 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.42 | 72.28 | 19.06 |      | 80.0 |         |
|           |                                                                      | Z | 5.43 | 72.49 | 19.15 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.03 | 76.72 | 17.72 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.60 | 80.15 | 19.27 |      | 80.0 |         |
|           |                                                                      | Z | 6.92 | 81.19 | 19.75 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.84 | 66.88 | 12.77 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.47 | 68.93 | 13.99 |      | 80.0 |         |
|           |                                                                      | Z | 3.74 | 70.12 | 14.63 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.68 | 65.93 | 12.20 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.25 | 67.85 | 13.39 |      | 80.0 |         |
|           |                                                                      | Z | 3.52 | 69.07 | 14.06 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.47 | 80.96 | 21.44 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 7.16 | 82.08 | 22.01 |      | 80.0 |         |
|           |                                                                      | Z | 7.45 | 82.96 | 22.34 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.03 | 74.16 | 18.59 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.47 | 75.07 | 19.14 |      | 80.0 |         |
|           |                                                                      | Z | 5.46 | 75.23 | 19.26 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.03 | 73.81 | 18.39 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.47 | 74.70 | 18.94 |      | 80.0 |         |
|           |                                                                      | Z | 5.46 | 74.84 | 19.06 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.16 | 79.46 | 21.29 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.67 | 80.24 | 21.70 |      | 80.0 |         |
|           |                                                                      | Z | 6.96 | 81.14 | 22.02 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.92 | 73.28 | 18.97 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.24 | 73.87 | 19.35 |      | 80.0 |         |
|           |                                                                      | Z | 5.25 | 74.09 | 19.46 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.95 | 72.89 | 18.83 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.26 | 73.42 | 19.19 |      | 80.0 |         |
|           |                                                                      | Z | 5.26 | 73.61 | 19.29 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.42 | 78.15 | 20.80 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.85 | 78.77 | 21.14 |      | 80.0 |         |
|           |                                                                      | Z | 7.11 | 79.54 | 21.39 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.13 | 72.31 | 18.92 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.40 | 72.72 | 19.20 |      | 80.0 |         |
|           |                                                                      | Z | 5.42 | 72.98 | 19.30 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.15 | 71.83 | 18.76 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.40 | 72.20 | 19.02 |      | 80.0  |         |
|           |                                                                     | Z | 5.42 | 72.42 | 19.11 |      | 80.0  |         |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.18 | 75.37 | 19.76 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.51 | 75.81 | 20.04 |      | 80.0  |         |
|           |                                                                     | Z | 6.63 | 76.29 | 20.18 |      | 80.0  |         |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.49 | 71.47 | 18.68 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.73 | 71.76 | 18.89 |      | 80.0  |         |
|           |                                                                     | Z | 5.75 | 72.00 | 18.98 |      | 80.0  |         |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.50 | 71.10 | 18.57 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.73 | 71.37 | 18.77 |      | 80.0  |         |
|           |                                                                     | Z | 5.74 | 71.58 | 18.85 |      | 80.0  |         |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.83 | 77.66 | 20.47 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 7.24 | 78.20 | 20.79 |      | 80.0  |         |
|           |                                                                     | Z | 7.49 | 78.93 | 21.01 |      | 80.0  |         |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.44 | 71.94 | 18.86 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.69 | 72.28 | 19.09 |      | 80.0  |         |
|           |                                                                     | Z | 5.72 | 72.58 | 19.20 |      | 80.0  |         |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.39 | 71.35 | 18.68 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.62 | 71.66 | 18.90 |      | 80.0  |         |
|           |                                                                     | Z | 5.64 | 71.91 | 18.99 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.00 | 63.97 | 15.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.03 | 64.27 | 15.65 |      | 150.0 |         |
|           |                                                                     | Z | 1.02 | 64.61 | 15.92 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.81 | 75.95 | 20.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.92 | 78.45 | 21.68 |      | 150.0 |         |
|           |                                                                     | Z | 1.37 | 86.83 | 25.09 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.88 | 66.47 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.91 | 67.09 | 16.84 |      | 150.0 |         |
|           |                                                                     | Z | 0.93 | 68.00 | 17.41 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.56 | 67.11 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.62 | 67.15 | 16.49 |      | 150.0 |         |
|           |                                                                     | Z | 4.63 | 67.21 | 16.51 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.75 | 67.34 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.81 | 67.39 | 16.61 |      | 150.0 |         |
|           |                                                                     | Z | 4.83 | 67.46 | 16.64 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.60 | 67.30 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 67.36 | 16.54 |      | 150.0 |         |
|           |                                                                     | Z | 4.68 | 67.44 | 16.57 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.54 | 67.30 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.60 | 67.36 | 16.53 |      | 150.0 |         |
|           |                                                                     | Z | 4.61 | 67.45 | 16.56 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.60 | 67.40 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 67.45 | 16.61 |      | 150.0 |         |
|           |                                                                     | Z | 4.67 | 67.51 | 16.63 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.48 | 67.27 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.53 | 67.32 | 16.46 |      | 150.0 |         |
|           |                                                            | Z | 4.55 | 67.38 | 16.48 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.54 | 67.32 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.60 | 67.37 | 16.58 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 67.44 | 16.61 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.53 | 66.36 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 66.41 | 16.17 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 66.47 | 16.19 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.70 | 66.73 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.76 | 66.79 | 16.31 |      | 150.0 |         |
|           |                                                            | Z | 4.78 | 66.86 | 16.33 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.62 | 66.69 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.68 | 66.75 | 16.26 |      | 150.0 |         |
|           |                                                            | Z | 4.70 | 66.83 | 16.29 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.63 | 66.71 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.70 | 66.77 | 16.29 |      | 150.0 |         |
|           |                                                            | Z | 4.71 | 66.85 | 16.32 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.63 | 66.71 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.70 | 66.77 | 16.29 |      | 150.0 |         |
|           |                                                            | Z | 4.71 | 66.85 | 16.32 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.62 | 66.81 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.69 | 66.89 | 16.31 |      | 150.0 |         |
|           |                                                            | Z | 4.71 | 66.98 | 16.34 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.49 | 66.67 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.55 | 66.74 | 16.25 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 66.84 | 16.28 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.64 | 66.76 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.71 | 66.82 | 16.28 |      | 150.0 |         |
|           |                                                            | Z | 4.72 | 66.89 | 16.30 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.17 | 66.78 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.23 | 66.85 | 16.32 |      | 150.0 |         |
|           |                                                            | Z | 5.24 | 66.92 | 16.34 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.24 | 66.97 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.30 | 67.04 | 16.41 |      | 150.0 |         |
|           |                                                            | Z | 5.31 | 67.09 | 16.41 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.10 | 66.92 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.17 | 66.99 | 16.37 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 67.06 | 16.38 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.16 | 66.88 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.23 | 66.95 | 16.35 |      | 150.0 |         |
|           |                                                            | Z | 5.23 | 67.02 | 16.36 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.25 | 66.90 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.32 | 66.97 | 16.40 |      | 150.0 |         |
|           |                                                            | Z | 5.33 | 67.05 | 16.42 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.19 | 66.93 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.25 | 67.00 | 16.43 |      | 150.0 |         |
|           |                                                            | Z | 5.25 | 67.06 | 16.44 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.16 | 66.78 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.22 | 66.85 | 16.35 |      | 150.0 |         |
|           |                                                    | Z | 5.22 | 66.92 | 16.36 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.31 | 66.85 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.37 | 66.91 | 16.39 |      | 150.0 |         |
|           |                                                    | Z | 5.38 | 66.98 | 16.40 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.38 | 66.89 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.45 | 66.96 | 16.43 |      | 150.0 |         |
|           |                                                    | Z | 5.46 | 67.01 | 16.44 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.48 | 66.88 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.54 | 66.94 | 16.30 |      | 150.0 |         |
|           |                                                    | Z | 5.53 | 67.00 | 16.31 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.67 | 67.32 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 67.40 | 16.48 |      | 150.0 |         |
|           |                                                    | Z | 5.74 | 67.44 | 16.47 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.54 | 67.09 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.61 | 67.17 | 16.38 |      | 150.0 |         |
|           |                                                    | Z | 5.61 | 67.25 | 16.40 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.61 | 67.13 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.68 | 67.20 | 16.39 |      | 150.0 |         |
|           |                                                    | Z | 5.69 | 67.30 | 16.41 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.87 | 68.10 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.00 | 68.34 | 16.93 |      | 150.0 |         |
|           |                                                    | Z | 5.99 | 68.40 | 16.94 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.57 | 67.12 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.64 | 67.18 | 16.40 |      | 150.0 |         |
|           |                                                    | Z | 5.64 | 67.24 | 16.40 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.58 | 67.15 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.64 | 67.21 | 16.38 |      | 150.0 |         |
|           |                                                    | Z | 5.64 | 67.29 | 16.38 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.49 | 66.95 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.55 | 67.00 | 16.28 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 67.07 | 16.29 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.57 | 66.98 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.63 | 67.03 | 16.32 |      | 150.0 |         |
|           |                                                    | Z | 5.64 | 67.11 | 16.34 |      | 150.0 |         |
| 10554-AAB | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.89 | 67.24 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.95 | 67.29 | 16.38 |      | 150.0 |         |
|           |                                                    | Z | 5.94 | 67.36 | 16.39 |      | 150.0 |         |
| 10555-AAB | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.02 | 67.55 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.09 | 67.62 | 16.52 |      | 150.0 |         |
|           |                                                    | Z | 6.08 | 67.68 | 16.52 |      | 150.0 |         |
| 10556-AAB | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.04 | 67.60 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.11 | 67.67 | 16.54 |      | 150.0 |         |
|           |                                                    | Z | 6.10 | 67.73 | 16.54 |      | 150.0 |         |
| 10557-AAB | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.00 | 67.49 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.07 | 67.56 | 16.51 |      | 150.0 |         |
|           |                                                    | Z | 6.07 | 67.64 | 16.52 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAB | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 6.05   | 67.66  | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.12   | 67.73  | 16.61 |      | 150.0 |         |
|           |                                                                 | Z | 6.12   | 67.82  | 16.62 |      | 150.0 |         |
| 10560-AAB | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.04   | 67.50  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.11   | 67.56  | 16.56 |      | 150.0 |         |
|           |                                                                 | Z | 6.11   | 67.65  | 16.57 |      | 150.0 |         |
| 10561-AAB | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.97   | 67.48  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.04   | 67.55  | 16.59 |      | 150.0 |         |
|           |                                                                 | Z | 6.03   | 67.62  | 16.60 |      | 150.0 |         |
| 10562-AAB | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.09   | 67.86  | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.17   | 67.97  | 16.80 |      | 150.0 |         |
|           |                                                                 | Z | 6.18   | 68.07  | 16.83 |      | 150.0 |         |
| 10563-AAB | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.29   | 68.07  | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.44   | 68.38  | 16.96 |      | 150.0 |         |
|           |                                                                 | Z | 6.51   | 68.64  | 17.06 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.90   | 67.22  | 16.55 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.96   | 67.24  | 16.65 |      | 150.0 |         |
|           |                                                                 | Z | 4.97   | 67.32  | 16.69 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.13   | 67.64  | 16.85 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.19   | 67.68  | 16.97 |      | 150.0 |         |
|           |                                                                 | Z | 5.20   | 67.75  | 16.99 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.96   | 67.51  | 16.68 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.03   | 67.56  | 16.80 |      | 150.0 |         |
|           |                                                                 | Z | 5.04   | 67.63  | 16.83 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.99   | 67.85  | 17.00 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.06   | 67.95  | 17.15 |      | 150.0 |         |
|           |                                                                 | Z | 5.07   | 67.99  | 17.15 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.89   | 67.36  | 16.50 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95   | 67.35  | 16.59 |      | 150.0 |         |
|           |                                                                 | Z | 4.97   | 67.46  | 16.64 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.95   | 67.96  | 17.06 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.02   | 68.05  | 17.22 |      | 150.0 |         |
|           |                                                                 | Z | 5.02   | 68.06  | 17.20 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.98   | 67.82  | 17.01 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.05   | 67.88  | 17.14 |      | 150.0 |         |
|           |                                                                 | Z | 5.06   | 67.92  | 17.15 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.38   | 66.80  | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.44   | 67.27  | 17.22 |      | 130.0 |         |
|           |                                                                 | Z | 1.44   | 67.73  | 17.52 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.41   | 67.51  | 17.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.48   | 68.06  | 17.66 |      | 130.0 |         |
|           |                                                                 | Z | 1.48   | 68.55  | 17.97 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 18.31  | 118.87 | 32.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 29.31  | 127.39 | 35.22 |      | 130.0 |         |
|           |                                                                 | Z | 100.00 | 148.97 | 40.10 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.76   | 75.24  | 20.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.95   | 76.96  | 21.75 |      | 130.0 |         |
|           |                                                                 | Z | 2.04   | 78.36  | 22.40 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.72 | 67.12 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.79 | 67.16 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.21 | 16.81 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.75 | 67.27 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 67.33 | 16.85 |      | 130.0 |         |
|           |                                                                 | Z | 4.82 | 67.37 | 16.86 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.95 | 67.54 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.02 | 67.61 | 17.01 |      | 130.0 |         |
|           |                                                                 | Z | 5.03 | 67.66 | 17.02 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.84 | 67.69 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92 | 67.79 | 17.12 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 67.82 | 17.12 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.63 | 67.08 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 67.11 | 16.46 |      | 130.0 |         |
|           |                                                                 | Z | 4.71 | 67.23 | 16.52 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.67 | 67.13 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74 | 67.14 | 16.47 |      | 130.0 |         |
|           |                                                                 | Z | 4.75 | 67.25 | 16.54 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.75 | 67.77 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 67.87 | 17.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 67.91 | 17.09 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.57 | 66.87 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.63 | 66.87 | 16.25 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 67.01 | 16.33 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.72 | 67.12 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.79 | 67.16 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.21 | 16.81 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.75 | 67.27 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 67.33 | 16.85 |      | 130.0 |         |
|           |                                                                 | Z | 4.82 | 67.37 | 16.86 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.95 | 67.54 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.02 | 67.61 | 17.01 |      | 130.0 |         |
|           |                                                                 | Z | 5.03 | 67.66 | 17.02 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.84 | 67.69 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92 | 67.79 | 17.12 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 67.82 | 17.12 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.63 | 67.08 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 67.11 | 16.46 |      | 130.0 |         |
|           |                                                                 | Z | 4.71 | 67.23 | 16.52 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.67 | 67.13 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74 | 67.14 | 16.47 |      | 130.0 |         |
|           |                                                                 | Z | 4.75 | 67.25 | 16.54 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.75 | 67.77 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 67.87 | 17.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 67.91 | 17.09 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.57 | 66.87 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.63 | 66.87 | 16.25 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 67.01 | 16.33 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.87 | 67.15 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.93 | 67.20 | 16.86 |      | 130.0 |         |
|           |                                                       | Z | 4.93 | 67.23 | 16.88 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.02 | 67.48 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.09 | 67.53 | 16.99 |      | 130.0 |         |
|           |                                                       | Z | 5.10 | 67.58 | 17.00 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.95 | 67.40 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.01 | 67.46 | 16.89 |      | 130.0 |         |
|           |                                                       | Z | 5.02 | 67.52 | 16.91 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.00 | 67.56 | 16.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.07 | 67.62 | 17.04 |      | 130.0 |         |
|           |                                                       | Z | 5.08 | 67.67 | 17.05 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.97 | 67.53 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.04 | 67.58 | 16.94 |      | 130.0 |         |
|           |                                                       | Z | 5.05 | 67.63 | 16.95 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.91 | 67.54 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.98 | 67.60 | 16.95 |      | 130.0 |         |
|           |                                                       | Z | 4.99 | 67.66 | 16.97 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.86 | 67.45 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.93 | 67.51 | 16.84 |      | 130.0 |         |
|           |                                                       | Z | 4.94 | 67.58 | 16.87 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.84 | 67.65 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.91 | 67.75 | 17.10 |      | 130.0 |         |
|           |                                                       | Z | 4.92 | 67.80 | 17.11 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.54 | 67.67 | 16.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.60 | 67.71 | 17.05 |      | 130.0 |         |
|           |                                                       | Z | 5.59 | 67.74 | 17.04 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.67 | 68.10 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.77 | 68.24 | 17.29 |      | 130.0 |         |
|           |                                                       | Z | 5.76 | 68.28 | 17.29 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.56 | 67.83 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.64 | 67.93 | 17.15 |      | 130.0 |         |
|           |                                                       | Z | 5.64 | 67.97 | 17.15 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.66 | 67.89 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.74 | 67.96 | 17.08 |      | 130.0 |         |
|           |                                                       | Z | 5.72 | 67.98 | 17.07 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.73 | 68.16 | 17.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.81 | 68.23 | 17.34 |      | 130.0 |         |
|           |                                                       | Z | 5.81 | 68.28 | 17.35 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.55 | 67.65 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.60 | 67.67 | 17.05 |      | 130.0 |         |
|           |                                                       | Z | 5.60 | 67.70 | 17.05 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.66 | 68.00 | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.74 | 68.07 | 17.26 |      | 130.0 |         |
|           |                                                       | Z | 5.72 | 68.08 | 17.25 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.40 | 67.32 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.47 | 67.38 | 16.77 |      | 130.0 |         |
|           |                                                       | Z | 5.49 | 67.51 | 16.83 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.71 | 66.46 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.77 | 66.52 | 16.50 |      | 130.0 |         |
|           |                                                   | Z | 4.77 | 66.56 | 16.50 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.89 | 66.87 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.96 | 66.93 | 16.66 |      | 130.0 |         |
|           |                                                   | Z | 4.97 | 66.98 | 16.67 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.78 | 66.73 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.85 | 66.80 | 16.51 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 66.86 | 16.53 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.83 | 66.88 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.90 | 66.96 | 16.67 |      | 130.0 |         |
|           |                                                   | Z | 4.91 | 67.00 | 16.68 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.75 | 66.70 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.82 | 66.77 | 16.52 |      | 130.0 |         |
|           |                                                   | Z | 4.83 | 66.83 | 16.54 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.77 | 66.88 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.84 | 66.94 | 16.58 |      | 130.0 |         |
|           |                                                   | Z | 4.85 | 67.02 | 16.60 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.77 | 66.76 | 16.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.84 | 66.82 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 66.91 | 16.50 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.71 | 66.91 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.78 | 67.02 | 16.69 |      | 130.0 |         |
|           |                                                   | Z | 4.79 | 67.07 | 16.71 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.76 | 66.57 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.82 | 66.60 | 16.30 |      | 130.0 |         |
|           |                                                   | Z | 4.84 | 66.69 | 16.34 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.35 | 66.89 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.42 | 66.96 | 16.66 |      | 130.0 |         |
|           |                                                   | Z | 5.42 | 67.01 | 16.66 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.42 | 67.09 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.49 | 67.17 | 16.73 |      | 130.0 |         |
|           |                                                   | Z | 5.49 | 67.18 | 16.72 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.30 | 67.08 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.38 | 67.17 | 16.75 |      | 130.0 |         |
|           |                                                   | Z | 5.37 | 67.21 | 16.74 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.32 | 66.91 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.40 | 67.00 | 16.60 |      | 130.0 |         |
|           |                                                   | Z | 5.40 | 67.05 | 16.61 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.41 | 66.94 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.48 | 67.01 | 16.66 |      | 130.0 |         |
|           |                                                   | Z | 5.49 | 67.09 | 16.67 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.40 | 67.03 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.48 | 67.12 | 16.83 |      | 130.0 |         |
|           |                                                   | Z | 5.47 | 67.15 | 16.81 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.42 | 67.21 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.50 | 67.31 | 16.92 |      | 130.0 |         |
|           |                                                   | Z | 5.49 | 67.33 | 16.89 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.30 | 66.76 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.37 | 66.82 | 16.55 |      | 130.0 |         |
|           |                                                    | Z | 5.37 | 66.88 | 16.56 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.49 | 66.94 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 67.01 | 16.70 |      | 130.0 |         |
|           |                                                    | Z | 5.56 | 67.06 | 16.70 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.85 | 67.92 | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.97 | 68.12 | 17.30 |      | 130.0 |         |
|           |                                                    | Z | 5.98 | 68.18 | 17.32 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.64 | 66.93 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.70 | 66.98 | 16.59 |      | 130.0 |         |
|           |                                                    | Z | 5.69 | 67.03 | 16.59 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.88 | 67.51 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.97 | 67.63 | 16.87 |      | 130.0 |         |
|           |                                                    | Z | 5.95 | 67.63 | 16.85 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.68 | 67.05 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 67.12 | 16.56 |      | 130.0 |         |
|           |                                                    | Z | 5.75 | 67.19 | 16.57 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.75 | 67.09 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.84 | 67.22 | 16.60 |      | 130.0 |         |
|           |                                                    | Z | 5.84 | 67.29 | 16.61 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.21 | 68.67 | 17.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.38 | 69.00 | 17.48 |      | 130.0 |         |
|           |                                                    | Z | 6.37 | 69.06 | 17.49 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 6.07 | 68.33 | 17.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.19 | 68.55 | 17.45 |      | 130.0 |         |
|           |                                                    | Z | 6.19 | 68.62 | 17.45 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.84 | 67.53 | 16.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.93 | 67.65 | 17.02 |      | 130.0 |         |
|           |                                                    | Z | 5.91 | 67.64 | 16.97 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.73 | 67.18 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.80 | 67.24 | 16.65 |      | 130.0 |         |
|           |                                                    | Z | 5.81 | 67.32 | 16.66 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.72 | 67.19 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.79 | 67.27 | 16.72 |      | 130.0 |         |
|           |                                                    | Z | 5.79 | 67.34 | 16.72 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.61 | 66.61 | 16.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.67 | 66.62 | 16.13 |      | 130.0 |         |
|           |                                                    | Z | 5.69 | 66.76 | 16.19 |      | 130.0 |         |
| 10636-AAB | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.05 | 67.28 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.12 | 67.35 | 16.67 |      | 130.0 |         |
|           |                                                    | Z | 6.11 | 67.40 | 16.67 |      | 130.0 |         |
| 10637-AAB | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.21 | 67.68 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.29 | 67.77 | 16.86 |      | 130.0 |         |
|           |                                                    | Z | 6.27 | 67.80 | 16.85 |      | 130.0 |         |
| 10638-AAB | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.21 | 67.65 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.29 | 67.73 | 16.82 |      | 130.0 |         |
|           |                                                    | Z | 6.27 | 67.77 | 16.82 |      | 130.0 |         |

|           |                                                        |   |       |        |       |      |       |         |
|-----------|--------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10639-AAB | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.18  | 67.59  | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.26  | 67.67  | 16.84 |      | 130.0 |         |
|           |                                                        | Z | 6.25  | 67.73  | 16.84 |      | 130.0 |         |
| 10640-AAB | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.19  | 67.63  | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27  | 67.70  | 16.79 |      | 130.0 |         |
|           |                                                        | Z | 6.27  | 67.80  | 16.82 |      | 130.0 |         |
| 10641-AAB | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.24  | 67.53  | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.31  | 67.58  | 16.75 |      | 130.0 |         |
|           |                                                        | Z | 6.29  | 67.62  | 16.75 |      | 130.0 |         |
| 10642-AAB | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.27  | 67.73  | 16.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.34  | 67.81  | 17.03 |      | 130.0 |         |
|           |                                                        | Z | 6.34  | 67.86  | 17.02 |      | 130.0 |         |
| 10643-AAB | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.12  | 67.47  | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.19  | 67.53  | 16.80 |      | 130.0 |         |
|           |                                                        | Z | 6.18  | 67.60  | 16.81 |      | 130.0 |         |
| 10644-AAB | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.28  | 67.96  | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.37  | 68.08  | 17.09 |      | 130.0 |         |
|           |                                                        | Z | 6.38  | 68.20  | 17.13 |      | 130.0 |         |
| 10645-AAB | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.58  | 68.48  | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.80  | 68.93  | 17.47 |      | 130.0 |         |
|           |                                                        | Z | 6.86  | 69.19  | 17.58 |      | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 89.35 | 140.59 | 45.44 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 33.28 | 115.10 | 38.15 |      | 60.0  |         |
|           |                                                        | Z | 70.54 | 133.81 | 43.67 |      | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 95.50 | 143.27 | 46.31 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 34.70 | 116.94 | 38.84 |      | 60.0  |         |
|           |                                                        | Z | 78.38 | 137.32 | 44.76 |      | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.76  | 64.99  | 11.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.84  | 66.12  | 12.58 |      | 150.0 |         |
|           |                                                        | Z | 0.90  | 67.38  | 13.36 |      | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 4.45  | 69.48  | 17.67 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.65  | 69.83  | 17.95 |      | 80.0  |         |
|           |                                                        | Z | 4.62  | 69.89  | 18.01 |      | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.87  | 68.43  | 17.66 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                        | Y | 5.03  | 68.63  | 17.84 |      | 80.0  |         |
|           |                                                        | Z | 5.01  | 68.73  | 17.90 |      | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.82  | 68.04  | 17.65 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.97  | 68.22  | 17.82 |      | 80.0  |         |
|           |                                                        | Z | 4.94  | 68.33  | 17.88 |      | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.88  | 68.01  | 17.68 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                        | Y | 5.02  | 68.19  | 17.85 |      | 80.0  |         |
|           |                                                        | Z | 5.00  | 68.32  | 17.91 |      | 80.0  |         |

<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.