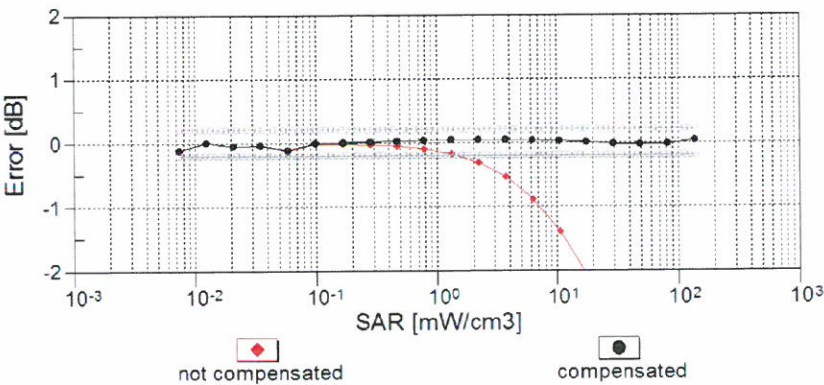
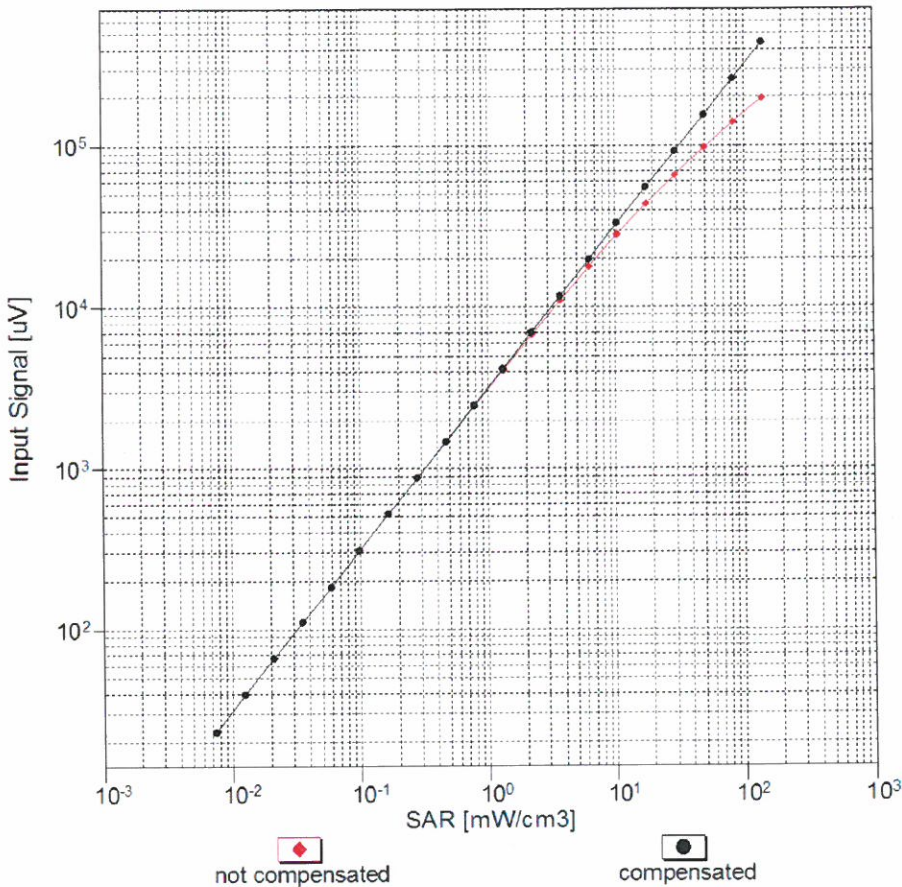
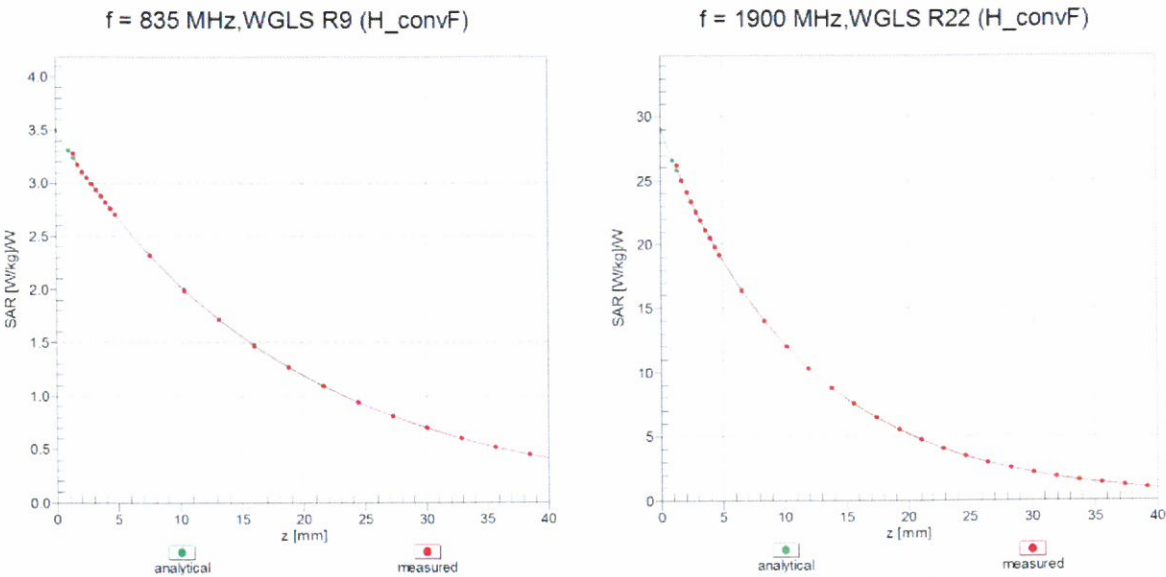


Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)

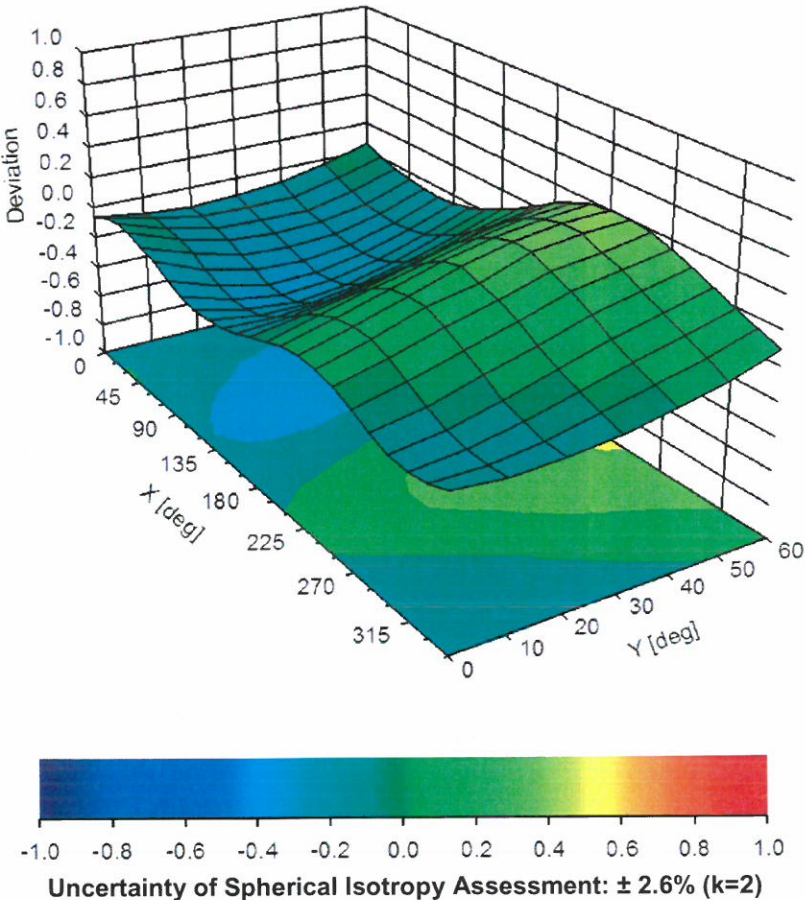


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, ϑ), f = 900 MHz



DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Other Probe Parameters

| | |
|-----------------------------------------------|------------|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | 124.1 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

Appendix: Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB $\sqrt{\mu V}$ | C | D dB | VR mV | Max Unc ^E (k=2) |
|---------------|-----------------------------------------------|---|---------|------------------------|-------|---------|----------|----------------------------------|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 154.2 | $\pm 3.3 \%$ |
| | | Y | 0.00 | 0.00 | 1.00 | | 140.2 | |
| | | Z | 0.00 | 0.00 | 1.00 | | 153.1 | |
| 10010- CAA | SAR Validation (Square, 100ms, 10ms) | X | 3.76 | 69.75 | 13.32 | 10.00 | 20.0 | $\pm 9.6 \%$ |
| | | Y | 5.08 | 73.95 | 15.37 | | 20.0 | |
| | | Z | 3.65 | 69.56 | 13.15 | | 20.0 | |
| 10011- CAB | UMTS-FDD (WCDMA) | X | 0.95 | 65.80 | 14.28 | 0.00 | 150.0 | $\pm 9.6 \%$ |
| | | Y | 1.02 | 67.05 | 15.11 | | 150.0 | |
| | | Z | 0.95 | 65.92 | 14.35 | | 150.0 | |
| 10012- CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | X | 1.20 | 63.58 | 14.72 | 0.41 | 150.0 | $\pm 9.6 \%$ |
| | | Y | 1.24 | 64.23 | 15.30 | | 150.0 | |
| | | Z | 1.19 | 63.50 | 14.73 | | 150.0 | |
| 10013- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.81 | 66.62 | 16.83 | 1.46 | 150.0 | $\pm 9.6 \%$ |
| | | Y | 4.88 | 66.85 | 17.09 | | 150.0 | |
| | | Z | 4.81 | 66.59 | 16.84 | | 150.0 | |
| 10021- DAC | GSM-FDD (TDMA, GMSK) | X | 14.13 | 88.13 | 21.50 | 9.39 | 50.0 | $\pm 9.6 \%$ |
| | | Y | 69.11 | 111.96 | 28.66 | | 50.0 | |
| | | Z | 17.68 | 91.42 | 22.44 | | 50.0 | |
| 10023- DAC | GPRS-FDD (TDMA, GMSK, TN 0) | X | 11.52 | 85.13 | 20.55 | 9.57 | 50.0 | $\pm 9.6 \%$ |
| | | Y | 40.65 | 104.28 | 26.72 | | 50.0 | |
| | | Z | 13.51 | 87.55 | 21.26 | | 50.0 | |
| 10024- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | X | 23.87 | 94.15 | 21.69 | 6.56 | 60.0 | $\pm 9.6 \%$ |
| | | Y | 100.00 | 113.80 | 27.28 | | 60.0 | |
| | | Z | 48.83 | 103.10 | 23.97 | | 60.0 | |
| 10025- DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | X | 5.74 | 75.13 | 27.28 | 12.57 | 50.0 | $\pm 9.6 \%$ |
| | | Y | 13.42 | 101.78 | 39.70 | | 50.0 | |
| | | Z | 5.32 | 73.37 | 26.51 | | 50.0 | |
| 10026- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | X | 10.40 | 90.67 | 30.91 | 9.56 | 60.0 | $\pm 9.6 \%$ |
| | | Y | 15.15 | 100.93 | 35.26 | | 60.0 | |
| | | Z | 9.65 | 89.51 | 30.64 | | 60.0 | |
| 10027- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | X | 100.00 | 109.67 | 24.48 | 4.80 | 80.0 | $\pm 9.6 \%$ |
| | | Y | 100.00 | 112.89 | 26.10 | | 80.0 | |
| | | Z | 100.00 | 110.38 | 24.65 | | 80.0 | |
| 10028- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | X | 100.00 | 109.59 | 23.79 | 3.55 | 100.0 | $\pm 9.6 \%$ |
| | | Y | 100.00 | 113.35 | 25.63 | | 100.0 | |
| | | Z | 100.00 | 110.50 | 24.03 | | 100.0 | |
| 10029- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | X | 7.04 | 82.49 | 26.73 | 7.80 | 80.0 | $\pm 9.6 \%$ |
| | | Y | 8.95 | 88.59 | 29.65 | | 80.0 | |
| | | Z | 6.51 | 81.32 | 26.42 | | 80.0 | |
| 10030- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | X | 15.10 | 88.17 | 19.22 | 5.30 | 70.0 | $\pm 9.6 \%$ |
| | | Y | 100.00 | 111.82 | 25.89 | | 70.0 | |
| | | Z | 26.72 | 94.99 | 21.05 | | 70.0 | |
| 10031- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | X | 99.99 | 108.42 | 22.06 | 1.88 | 100.0 | $\pm 9.6 \%$ |
| | | Y | 100.00 | 113.37 | 24.32 | | 100.0 | |
| | | Z | 100.00 | 109.19 | 22.21 | | 100.0 | |

| | | | | | | | | |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | X | 100.00 | 112.37 | 22.88 | 1.17 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 118.77 | 25.65 | | 100.0 | |
| | | Z | 100.00 | 113.29 | 23.07 | | 100.0 | |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | X | 5.57 | 78.04 | 18.61 | 5.30 | 70.0 | ± 9.6 % |
| | | Y | 10.09 | 87.61 | 22.52 | | 70.0 | |
| | | Z | 5.56 | 78.77 | 19.04 | | 70.0 | |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | X | 2.48 | 71.41 | 14.75 | 1.88 | 100.0 | ± 9.6 % |
| | | Y | 3.81 | 77.36 | 17.52 | | 100.0 | |
| | | Z | 2.41 | 71.63 | 14.99 | | 100.0 | |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | X | 1.86 | 69.49 | 13.81 | 1.17 | 100.0 | ± 9.6 % |
| | | Y | 2.55 | 73.77 | 15.98 | | 100.0 | |
| | | Z | 1.80 | 69.56 | 13.97 | | 100.0 | |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | X | 6.21 | 79.73 | 19.28 | 5.30 | 70.0 | ± 9.6 % |
| | | Y | 12.23 | 90.65 | 23.54 | | 70.0 | |
| | | Z | 6.28 | 80.68 | 19.79 | | 70.0 | |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | X | 2.35 | 70.84 | 14.50 | 1.88 | 100.0 | ± 9.6 % |
| | | Y | 3.54 | 76.48 | 17.18 | | 100.0 | |
| | | Z | 2.28 | 71.03 | 14.73 | | 100.0 | |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | X | 1.87 | 69.72 | 14.01 | 1.17 | 100.0 | ± 9.6 % |
| | | Y | 2.58 | 74.14 | 16.23 | | 100.0 | |
| | | Z | 1.81 | 69.79 | 14.18 | | 100.0 | |
| 10039-CAB | CDMA2000 (1xRTT, RC1) | X | 1.41 | 68.93 | 13.70 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.63 | 70.83 | 14.77 | | 150.0 | |
| | | Z | 1.44 | 69.21 | 13.87 | | 150.0 | |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 13.06 | 86.07 | 19.43 | 7.78 | 50.0 | ± 9.6 % |
| | | Y | 100.00 | 112.69 | 27.00 | | 50.0 | |
| | | Z | 16.81 | 89.43 | 20.38 | | 50.0 | |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | X | 0.01 | 90.86 | 1.88 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.01 | 91.55 | 0.66 | | 150.0 | |
| | | Z | 0.00 | 92.83 | 2.88 | | 150.0 | |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | X | 7.65 | 77.54 | 19.57 | 13.80 | 25.0 | ± 9.6 % |
| | | Y | 12.24 | 86.24 | 23.16 | | 25.0 | |
| | | Z | 8.29 | 78.44 | 19.75 | | 25.0 | |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | X | 8.74 | 80.67 | 19.35 | 10.79 | 40.0 | ± 9.6 % |
| | | Y | 17.02 | 91.54 | 23.46 | | 40.0 | |
| | | Z | 9.35 | 81.70 | 19.63 | | 40.0 | |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | X | 8.29 | 80.45 | 20.34 | 9.03 | 50.0 | ± 9.6 % |
| | | Y | 12.62 | 88.12 | 23.58 | | 50.0 | |
| | | Z | 8.58 | 81.40 | 20.74 | | 50.0 | |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | X | 5.45 | 77.90 | 24.21 | 6.55 | 100.0 | ± 9.6 % |
| | | Y | 6.48 | 82.08 | 26.38 | | 100.0 | |
| | | Z | 5.07 | 76.85 | 23.91 | | 100.0 | |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | X | 1.27 | 64.70 | 15.21 | 0.61 | 110.0 | ± 9.6 % |
| | | Y | 1.33 | 65.68 | 16.00 | | 110.0 | |
| | | Z | 1.24 | 64.56 | 15.21 | | 110.0 | |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | X | 3.82 | 84.17 | 20.61 | 1.30 | 110.0 | ± 9.6 % |
| | | Y | 19.60 | 108.20 | 28.01 | | 110.0 | |
| | | Z | 3.65 | 84.44 | 20.89 | | 110.0 | |

| | | | | | | | | |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) | X | 2.88 | 76.40 | 19.46 | 2.04 | 110.0 | ± 9.6 % |
| | | Y | 4.38 | 83.67 | 22.65 | | 110.0 | |
| | | Z | 2.68 | 75.96 | 19.48 | | 110.0 | |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | X | 4.58 | 66.56 | 16.29 | 0.49 | 100.0 | ± 9.6 % |
| | | Y | 4.64 | 66.73 | 16.49 | | 100.0 | |
| | | Z | 4.59 | 66.55 | 16.31 | | 100.0 | |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | X | 4.60 | 66.65 | 16.37 | 0.72 | 100.0 | ± 9.6 % |
| | | Y | 4.67 | 66.84 | 16.59 | | 100.0 | |
| | | Z | 4.61 | 66.64 | 16.39 | | 100.0 | |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | X | 4.86 | 66.86 | 16.57 | 0.86 | 100.0 | ± 9.6 % |
| | | Y | 4.93 | 67.07 | 16.81 | | 100.0 | |
| | | Z | 4.87 | 66.85 | 16.60 | | 100.0 | |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | X | 4.75 | 66.76 | 16.65 | 1.21 | 100.0 | ± 9.6 % |
| | | Y | 4.82 | 67.00 | 16.91 | | 100.0 | |
| | | Z | 4.75 | 66.75 | 16.67 | | 100.0 | |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | X | 4.77 | 66.79 | 16.80 | 1.46 | 100.0 | ± 9.6 % |
| | | Y | 4.85 | 67.06 | 17.09 | | 100.0 | |
| | | Z | 4.77 | 66.77 | 16.82 | | 100.0 | |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | X | 5.08 | 67.05 | 17.25 | 2.04 | 100.0 | ± 9.6 % |
| | | Y | 5.17 | 67.34 | 17.58 | | 100.0 | |
| | | Z | 5.07 | 67.01 | 17.27 | | 100.0 | |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | X | 5.13 | 67.06 | 17.44 | 2.55 | 100.0 | ± 9.6 % |
| | | Y | 5.23 | 67.40 | 17.80 | | 100.0 | |
| | | Z | 5.13 | 67.02 | 17.45 | | 100.0 | |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | X | 5.21 | 67.10 | 17.64 | 2.67 | 100.0 | ± 9.6 % |
| | | Y | 5.31 | 67.45 | 18.01 | | 100.0 | |
| | | Z | 5.21 | 67.06 | 17.65 | | 100.0 | |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | X | 4.92 | 66.72 | 17.11 | 1.99 | 100.0 | ± 9.6 % |
| | | Y | 5.00 | 66.99 | 17.42 | | 100.0 | |
| | | Z | 4.91 | 66.68 | 17.12 | | 100.0 | |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.91 | 67.03 | 17.30 | 2.30 | 100.0 | ± 9.6 % |
| | | Y | 5.00 | 67.36 | 17.65 | | 100.0 | |
| | | Z | 4.90 | 66.98 | 17.31 | | 100.0 | |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.00 | 67.27 | 17.63 | 2.83 | 100.0 | ± 9.6 % |
| | | Y | 5.10 | 67.64 | 18.02 | | 100.0 | |
| | | Z | 4.98 | 67.20 | 17.64 | | 100.0 | |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.02 | 67.26 | 17.80 | 3.30 | 100.0 | ± 9.6 % |
| | | Y | 5.12 | 67.65 | 18.21 | | 100.0 | |
| | | Z | 5.00 | 67.17 | 17.80 | | 100.0 | |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.09 | 67.42 | 18.10 | 3.82 | 90.0 | ± 9.6 % |
| | | Y | 5.19 | 67.85 | 18.56 | | 90.0 | |
| | | Z | 5.05 | 67.31 | 18.09 | | 90.0 | |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.13 | 67.33 | 18.27 | 4.15 | 90.0 | ± 9.6 % |
| | | Y | 5.24 | 67.76 | 18.74 | | 90.0 | |
| | | Z | 5.10 | 67.20 | 18.25 | | 90.0 | |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.17 | 67.42 | 18.38 | 4.30 | 90.0 | ± 9.6 % |
| | | Y | 5.28 | 67.86 | 18.85 | | 90.0 | |
| | | Z | 5.13 | 67.30 | 18.36 | | 90.0 | |

| | | | | | | | | |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3) | X | 0.72 | 64.25 | 11.06 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.78 | 65.33 | 11.87 | | 150.0 | |
| | | Z | 0.72 | 64.38 | 11.17 | | 150.0 | |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 1.05 | 59.82 | 5.37 | 4.77 | 80.0 | ± 9.6 % |
| | | Y | 1.18 | 60.58 | 6.03 | | 80.0 | |
| | | Z | 0.94 | 59.47 | 5.03 | | 80.0 | |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | X | 22.88 | 93.65 | 21.58 | 6.56 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 113.84 | 27.32 | | 60.0 | |
| | | Z | 45.76 | 102.35 | 23.80 | | 60.0 | |
| 10097-CAB | UMTS-FDD (HSDPA) | X | 1.76 | 67.08 | 15.10 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.82 | 67.70 | 15.57 | | 150.0 | |
| | | Z | 1.76 | 67.12 | 15.15 | | 150.0 | |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2) | X | 1.72 | 67.01 | 15.07 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.79 | 67.65 | 15.54 | | 150.0 | |
| | | Z | 1.72 | 67.06 | 15.12 | | 150.0 | |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | X | 10.43 | 90.68 | 30.90 | 9.56 | 60.0 | ± 9.6 % |
| | | Y | 15.18 | 100.92 | 35.25 | | 60.0 | |
| | | Z | 9.68 | 89.54 | 30.64 | | 60.0 | |
| 10100-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 2.94 | 69.38 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.05 | 69.99 | 16.62 | | 150.0 | |
| | | Z | 2.95 | 69.46 | 16.29 | | 150.0 | |
| 10101-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 3.13 | 67.05 | 15.64 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.19 | 67.35 | 15.88 | | 150.0 | |
| | | Z | 3.14 | 67.08 | 15.67 | | 150.0 | |
| 10102-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 3.24 | 67.08 | 15.76 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.29 | 67.33 | 15.96 | | 150.0 | |
| | | Z | 3.25 | 67.10 | 15.78 | | 150.0 | |
| 10103-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 6.26 | 74.01 | 19.24 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.12 | 76.36 | 20.46 | | 65.0 | |
| | | Z | 6.47 | 74.90 | 19.69 | | 65.0 | |
| 10104-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 6.75 | 73.73 | 19.90 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.25 | 75.18 | 20.78 | | 65.0 | |
| | | Z | 6.53 | 73.39 | 19.84 | | 65.0 | |
| 10105-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 6.13 | 71.84 | 19.36 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 6.72 | 73.65 | 20.42 | | 65.0 | |
| | | Z | 6.39 | 72.91 | 19.94 | | 65.0 | |
| 10108-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X | 2.55 | 68.64 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.65 | 69.26 | 16.44 | | 150.0 | |
| | | Z | 2.57 | 68.72 | 16.10 | | 150.0 | |
| 10109-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | X | 2.78 | 66.90 | 15.49 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.84 | 67.22 | 15.75 | | 150.0 | |
| | | Z | 2.79 | 66.93 | 15.52 | | 150.0 | |
| 10110-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | X | 2.05 | 67.73 | 15.54 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.14 | 68.42 | 16.00 | | 150.0 | |
| | | Z | 2.06 | 67.80 | 15.59 | | 150.0 | |
| 10111-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | X | 2.49 | 67.77 | 15.68 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.55 | 68.10 | 15.96 | | 150.0 | |
| | | Z | 2.50 | 67.82 | 15.73 | | 150.0 | |