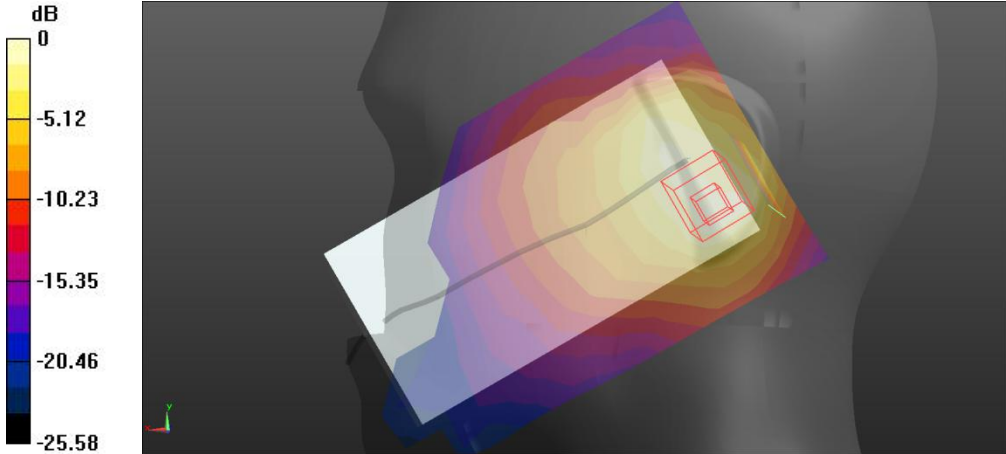
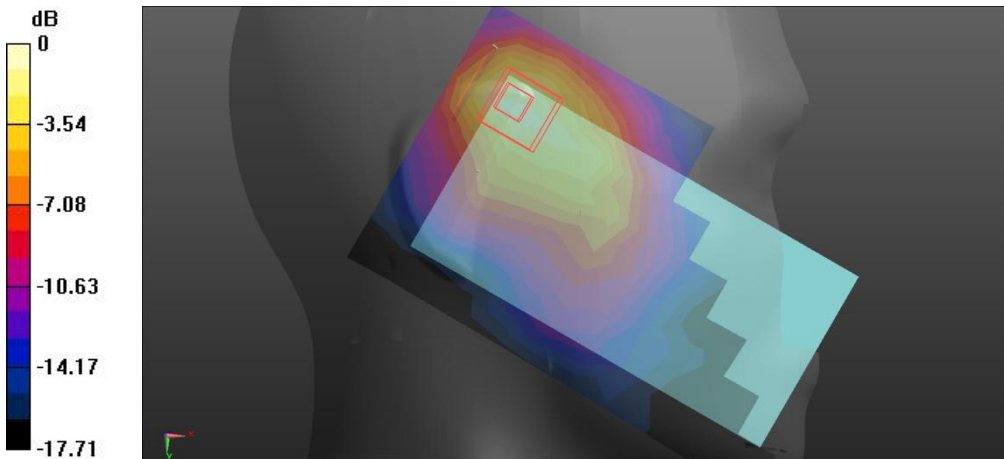
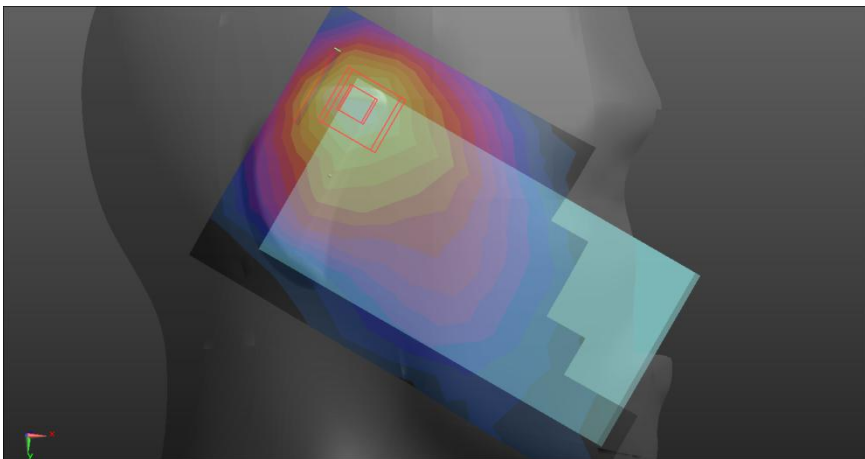


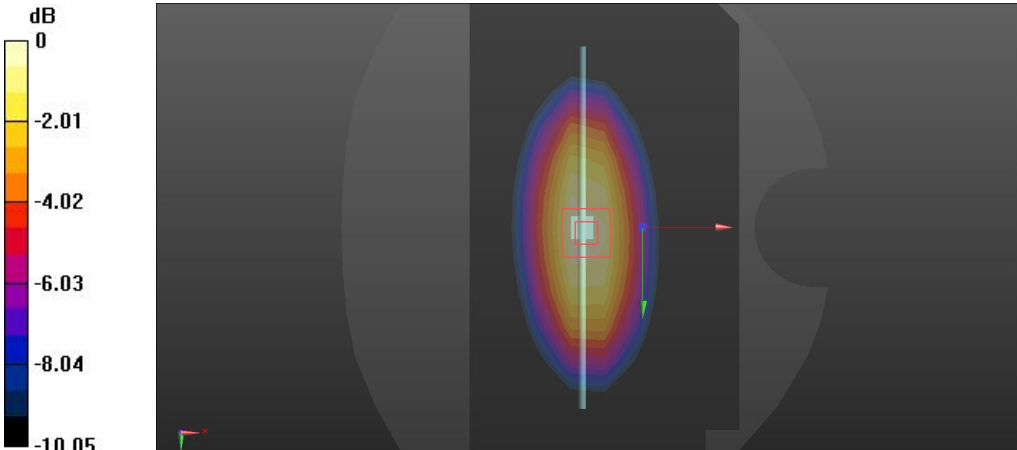
| Left Side | Tilt |
|---|------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz</p> <p>Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.782$ S/m; $\epsilon_r = 39.236$; $\rho = 1000$ kg/m³</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.61, 4.61, 4.61); Calibrated: 8/29/2016; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 8/22/2016 Phantom: SAM 1560; Type: QD000P40CD; Serial: TP:1560 Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 <p>Head-Section Left HSL WIFI/WIFI tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm</p> <p>Maximum value of SAR (measured) = 0.056 W/kg</p> <p>Head-Section Left HSL WIFI/WIFI tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm</p> <p>Reference Value = 9.24 V/m; Power Drift = 0.03 dB</p> <p>Peak SAR (extrapolated) = 0.32 W/kg</p> <p>SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.029 W/kg</p> <p>Maximum value of SAR (measured) = 0.074 W/kg</p> | |
|  <p>0 dB = 0.074 W/kg = -11.31 dBW/kg</p> | |

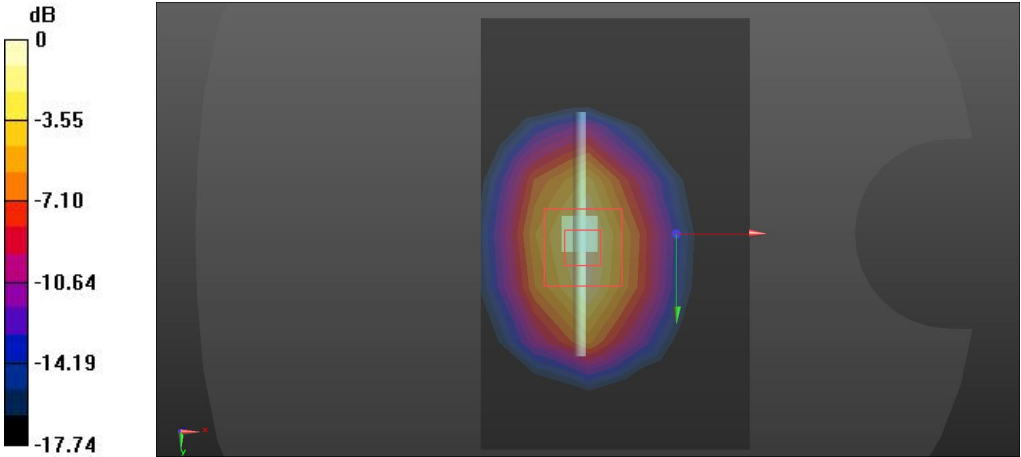
| Right Side | Cheek |
|---|-------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz</p> <p>Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.782 \text{ S/m}$; $\epsilon_r = 39.236$; $\rho = 1000 \text{ kg/m}^3$</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.61, 4.61, 4.61); Calibrated: 8/29/2016; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 8/22/2016 Phantom: SAM 1560; Type: QD000P40CD; Serial: TP:1560 Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 <p>Head-Section Right HSL WIFI/WIFI touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$</p> <p>Maximum value of SAR (measured) = 0.084 W/kg</p> <p>Head-Section Right HSL WIFI/WIFI touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$</p> <p>Reference Value = 5.324 V/m; Power Drift = 0.12 dB</p> <p>Peak SAR (extrapolated) = 0.186 W/kg</p> <p>SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.048 W/kg</p> <p>Maximum value of SAR (measured) = 0.095 W/kg</p> | |
|  <p>0 dB = 0.095 W/kg = -10.22 dBW/kg</p> | |

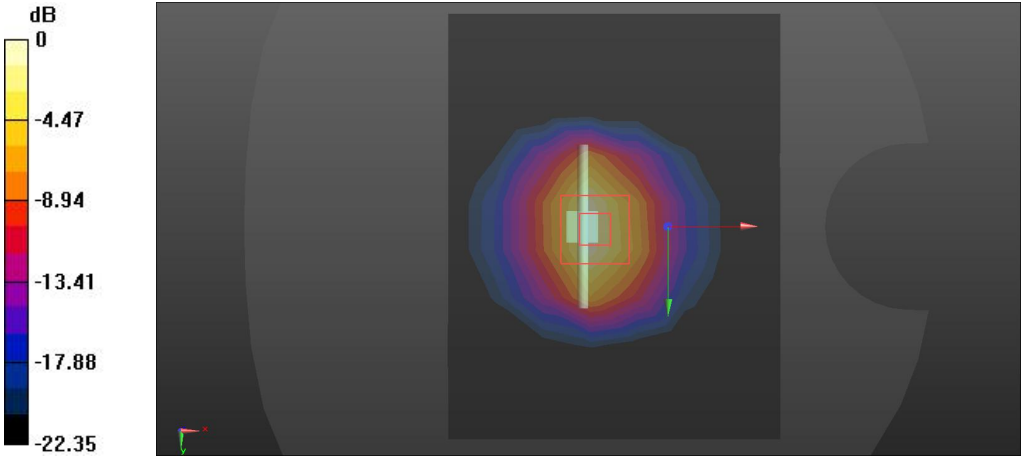
| Right Side | Tilt |
|---|------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz</p> <p>Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.782 \text{ S/m}$; $\epsilon_r = 39.236$; $\rho = 1000 \text{ kg/m}^3$</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.61, 4.61, 4.61); Calibrated: 8/29/2016; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 8/22/2016 Phantom: SAM 1560; Type: QD000P40CD; Serial: TP:1560 Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 <p>Head-Section Right HSL WIFI/WIFI tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$</p> <p>Maximum value of SAR (measured) = 0.041 W/kg</p> <p>Head-Section Right HSL WIFI/WIFI tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$</p> <p>Reference Value = 4.243 V/m; Power Drift = -0.15 dB</p> <p>Peak SAR (extrapolated) = 0.080 W/kg</p> <p>SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.029 W/kg</p> <p>Maximum value of SAR (measured) = 0.043 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0</p> <p>-4.15</p> <p>-8.31</p> <p>-12.46</p> <p>-16.62</p> <p>-20.77</p> </div>  </div> <p>0 dB = 0.043 W/kg = -13.67 dBW/kg</p> | |

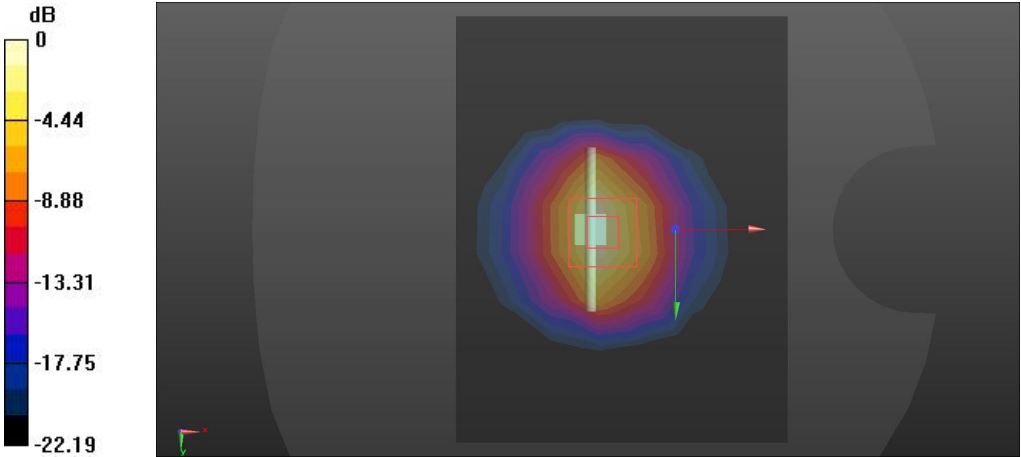
NEW TEST

SYSTEM CHECK

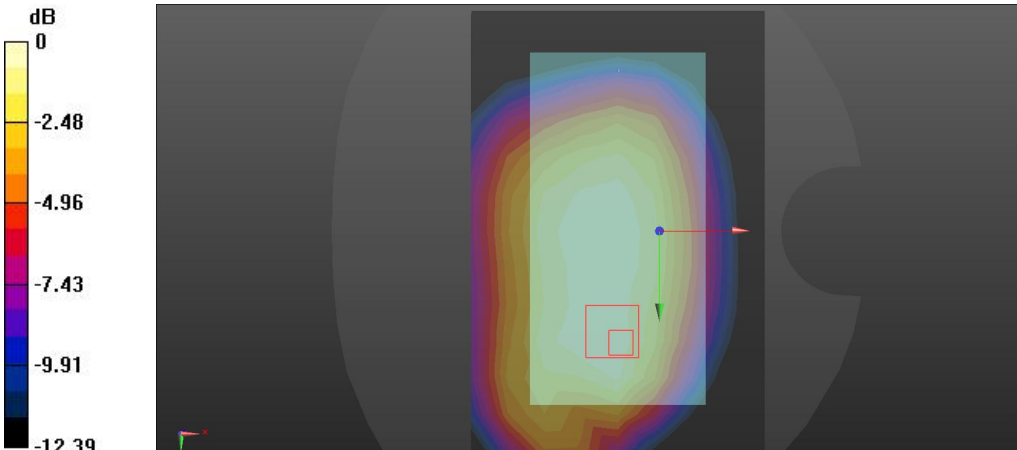
| SYSTEM CHECKING SCANS | 835MHz Flat |
|--|-------------|
| <p>Communication System: UID 0, CW (0); Frequency: 835 MHz Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ S/m}$; $\epsilon_r = 54.36$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>System Performance Check at Frequencies 835MHz Body/d=15mm, Pin=250 mW, dist=4.0mm (ES-Probe)/Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 2.49 W/kg</p> <p>System Performance Check at Frequencies 835MHz Body/d=15mm, Pin=250 mW, dist=4.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 47.61 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 3.56 W/kg SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.61 W/kg Maximum value of SAR (measured) = 2.64 W/kg</p> <div>  <p>0 dB = 2.64 W/kg = 4.22 dBW/kg</p> </div> | |

| SYSTEM CHECKING SCANS | 1900MHz Flat |
|--|--------------|
| <p>Communication System: UID 0, CW (0); Frequency: 1900 MHz Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 54.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>System Performance Check at Frequencies 1900MHz Body/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (6x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 11.7 W/kg</p> <p>System Performance Check at Frequencies 1900MHz Body/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 68.14 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 17.5 W/kg SAR(1 g) = 9.8 W/kg; SAR(10 g) = 5.15 W/kg Maximum value of SAR (measured) = 12.4 W/kg</p> <div>  <p>0 dB = 12.4 W/kg = 10.93 dBW/kg</p> </div> | |

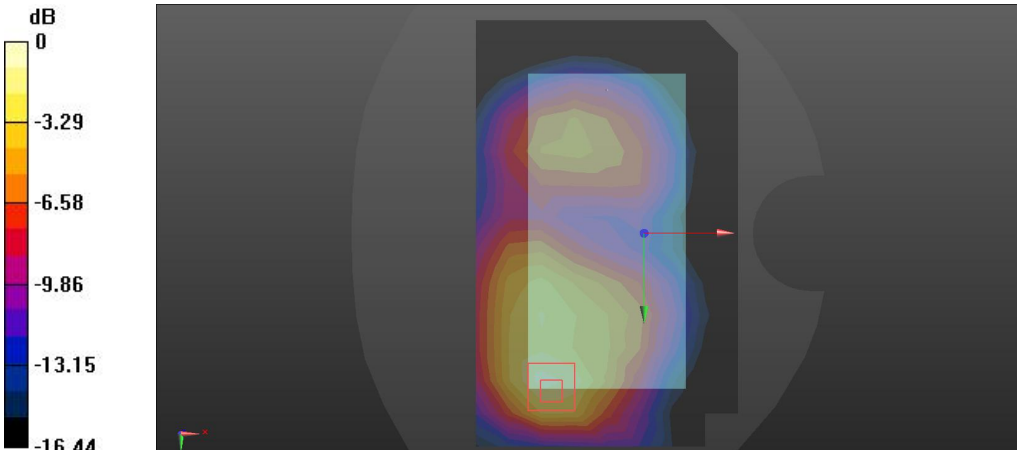
| SYSTEM CHECKING SCANS | 2450MHz Head |
|--|--------------|
| <p>Communication System: UID 0, CW (0); Frequency: 2450 MHz Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.84 \text{ S/m}$; $\epsilon_r = 39.95$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: SAM 1559; Type: QD 000 P40 CD; Serial: 1559 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>System Performance Check at Frequencies 2450 MHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (8x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 14.7 W/kg</p> <p>System Performance Check at Frequencies 2450 MHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 88.14 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 25.5 W/kg SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.11 W/kg Maximum value of SAR (measured) = 16.7 W/kg</p> <div>  <p>0 dB = $16.7 \text{ W/kg} = 12.23 \text{ dBW/kg}$</p> </div> | |

| SYSTEM CHECKING SCANS | 2450MHz Flat |
|---|--------------|
| <p>Communication System: UID 0, CW (0); Frequency: 2450 MHz Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.97 \text{ S/m}$; $\epsilon_r = 53.48$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>System Performance Check at Frequencies 2450 MHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (8x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 14.5 W/kg</p> <p>System Performance Check at Frequencies 2450 MHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 81.32 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 25.8 W/kg SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.81 W/kg Maximum value of SAR (measured) = 16.6 W/kg</p> <div>  <p>0 dB = $16.6 \text{ W/kg} = 12.20 \text{ dBW/kg}$</p> </div> | |

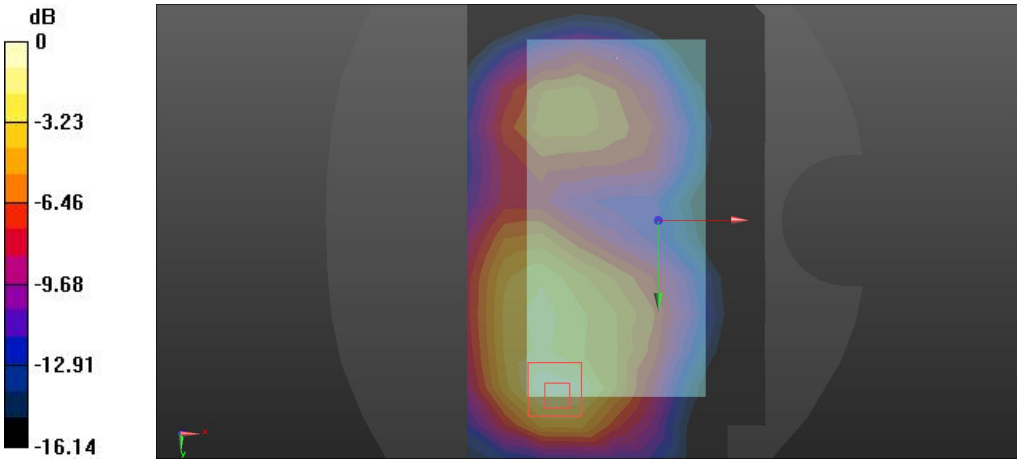
GSM850 (EGPRS)

| FLAT | Towards Ground |
|--|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.976$ S/m; $\epsilon_r = 55.195$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section GSM850 TG/EGPRS850 TG M/Area Scan (9x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.731 W/kg</p> <p>Flat-Section GSM850 TG/EGPRS850 TG M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 28.61 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 1.09 W/kg SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.388 W/kg Maximum value of SAR (measured) = 0.744 W/kg</p> <div>  <p>0 dB = 0.744 W/kg = -1.28 dBW/kg</p> </div> | |

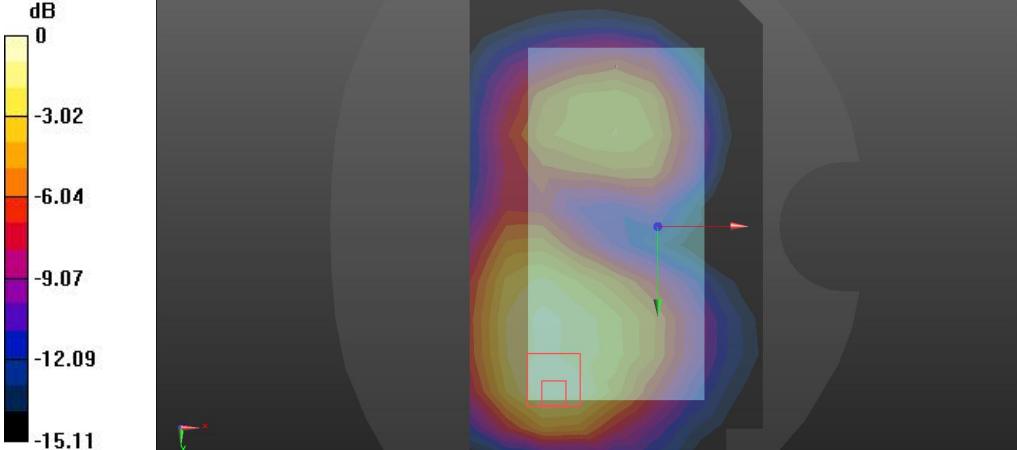
GSM1900 (EGPRS)

| FLAT | Towards Ground |
|--|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.526$ S/m; $\epsilon_r = 53.291$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section GSM1900 TG/EGPRS1900 TG M/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.538 W/kg</p> <p>Flat-Section GSM1900 TG/EGPRS1900 TG M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.016 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 1.76 W/kg SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.206 W/kg Maximum value of SAR (measured) = 0.562 W/kg</p> <div>  <p>0 dB = 0.562 W/kg = -2.50 dBW/kg</p> </div> | |

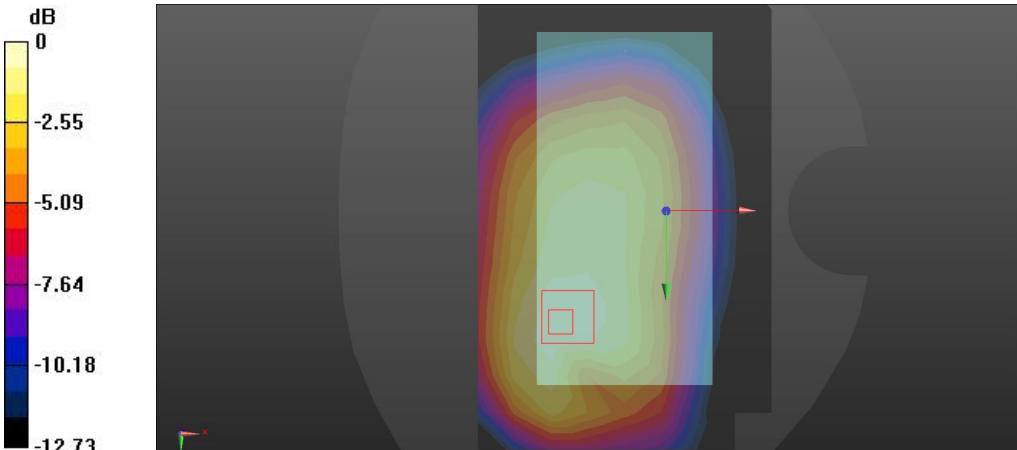
WCDMA Band2 (Voice)

| FLAT | Towards Ground |
|---|----------------|
| <p>Communication System: UID 0, WCDMA band 02 (0); Frequency: 1880 MHz Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.526$ S/m; $\epsilon_r = 53.291$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section WCDMA Band2 TG/WCDMA Band2 TG M Voice/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.615 W/kg</p> <p>Flat-Section WCDMA Band2 TG/WCDMA Band2 TG M Voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.098 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.02 W/kg SAR(1 g) = 0.554 W/kg; SAR(10 g) = 0.301 W/kg Maximum value of SAR (measured) = 0.648 W/kg</p> <div>  <p>0 dB = 0.648 W/kg = -1.88 dBW/kg</p> </div> | |

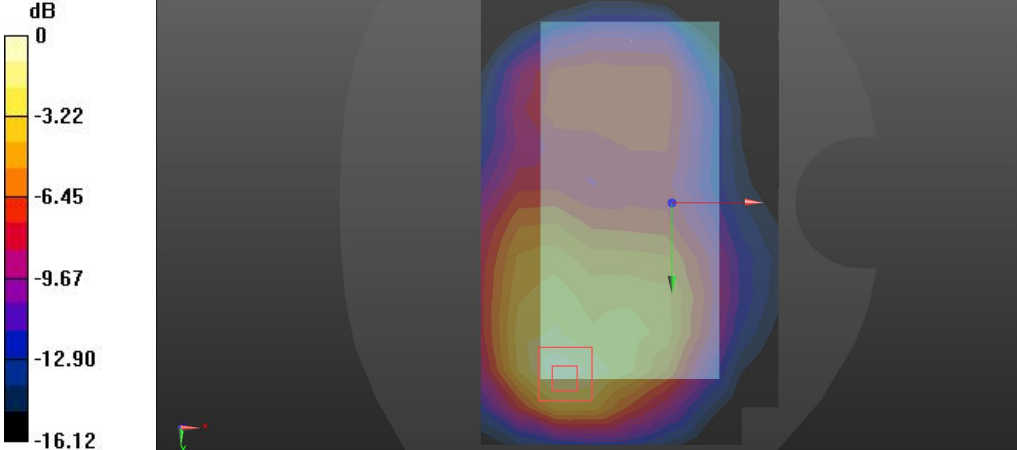
WCDMA Band4 (Data)

| FLAT | Towards Ground |
|---|----------------|
| <p>Communication System: UID 0, WCDMA band 04 (0); Frequency: 1732.4 MHz Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 53.461$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section WCDMA Band4 TG/WCDMA Band4 TG M Data/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.493 W/kg</p> <p>Flat-Section WCDMA Band4 TG/WCDMA Band4 TG M Data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.935 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.819 W/kg SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.295 W/kg Maximum value of SAR (measured) = 0.504 W/kg</p> <div>  <p>0 dB = 0.504 W/kg = -2.98 dBW/kg</p> </div> | |

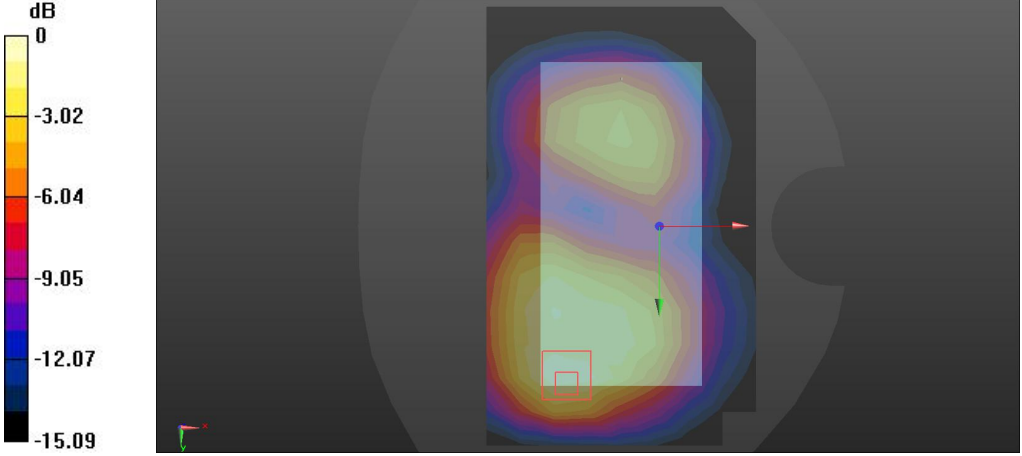
WCDMA Band5 (Voice)

| FLAT | Towards Ground |
|--|----------------|
| <p>Communication System: UID 0, wcdma band5 (0); Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.976$ S/m; $\epsilon_r = 55.195$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section WCDMA Band5 TG/WCDMA Band5 TG M Voice/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.316 W/kg</p> <p>Flat-Section WCDMA Band5 TG/WCDMA Band5 TG M Voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 15.46 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.441 W/kg SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.210 W/kg Maximum value of SAR (measured) = 0.324 W/kg</p> <div>  <p>0 dB = 0.324 W/kg = -4.89 dBW/kg</p> </div> | |

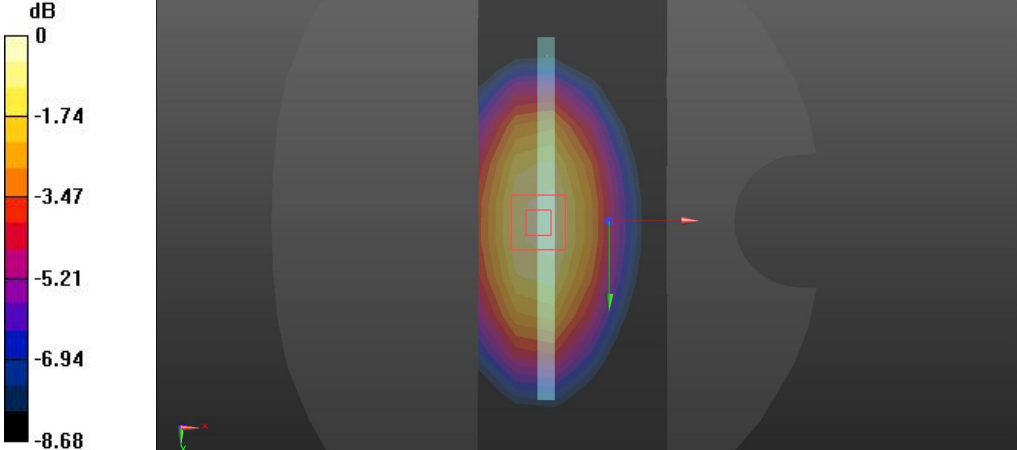
LTE Band2 (1RB)

| FLAT | Towards Ground |
|---|----------------|
| <p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz</p> <p>Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.526$ S/m; $\epsilon_r = 53.291$; $\rho = 1000$ kg/m³</p> <p>Phantom section: Flat Section</p> <p>Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section LTE Band2 TG/LTE Band2 TG M 1RB/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm</p> <p>Maximum value of SAR (measured) = 0.776 W/kg</p> <p>Flat-Section LTE Band2 TG/LTE Band2 TG M 1RB/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm</p> <p>Reference Value = 8.187 V/m; Power Drift = -0.11 dB</p> <p>Peak SAR (extrapolated) = 1.144 W/kg</p> <p>SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.302 W/kg</p> <p>Maximum value of SAR (measured) = 0.605 W/kg</p> <div>  <p>0 dB = 0.605 W/kg = -2.18 dBW/kg</p> </div> | |

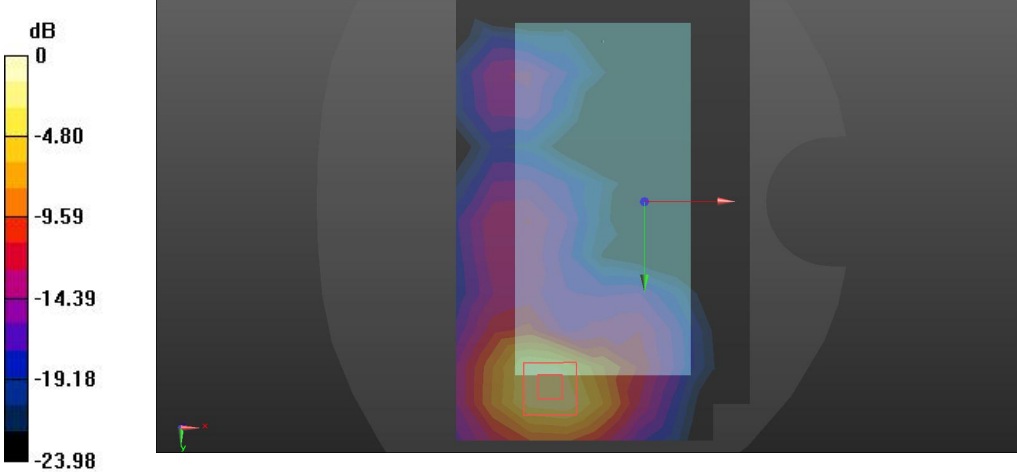
LTE Band4 (50%RB)

| FLAT | Towards Ground |
|--|----------------|
| <p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 1732.5 MHz</p> <p>Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 53.46$; $\rho = 1000$ kg/m³</p> <p>Phantom section: Flat Section</p> <p>Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section LTE Band4 TG/LTE Band4 TG M 50%RB/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm</p> <p>Maximum value of SAR (measured) = 0.308 W/kg</p> <p>Flat-Section LTE Band4 TG/LTE Band4 TG M 50%RB/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm</p> <p>Reference Value = 4.725 V/m; Power Drift = -0.12 dB</p> <p>Peak SAR (extrapolated) = 0.494 W/kg</p> <p>SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.173 W/kg</p> <p>Maximum value of SAR (measured) = 0.323 W/kg</p> | |
|  <p>0 dB = 0.323 W/kg = -4.91 dBW/kg</p> | |

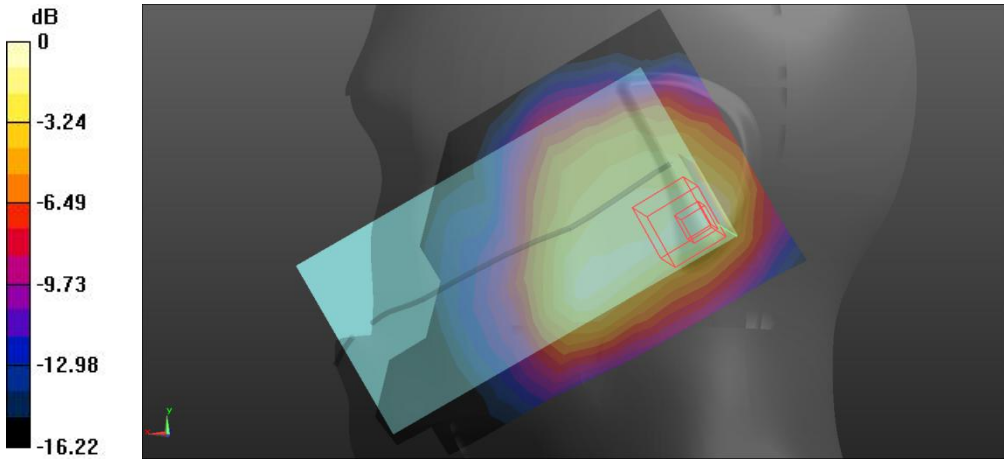
LTE Band5 (1RB)

| FLAT | EDGE3 |
|--|-------|
| <p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 836.5 MHz</p> <p>Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.976$ S/m; $\epsilon_r = 55.195$; $\rho = 1000$ kg/m³</p> <p>Phantom section: Flat Section</p> <p>Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section LTE Band5 TG/LTE Band5 Edge3 M 1RB/Area Scan (6x14x1): Measurement grid: $dx=15$mm, $dy=15$mm</p> <p>Maximum value of SAR (measured) = 0.218 W/kg</p> <p>Flat-Section LTE Band5 TG/LTE Band5 Edge3 M 1RB/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm</p> <p>Reference Value = 14.30 V/m; Power Drift = 0.17 dB</p> <p>Peak SAR (extrapolated) = 0.293 W/kg</p> <p>SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.154 W/kg</p> <p>Maximum value of SAR (measured) = 0.232 W/kg</p> <div style="display: flex; align-items: center;">  </div> <p>0 dB = 0.232 W/kg = -6.35 dBW/kg</p> | |

LTE Band7 (1RB)

| FLAT | Towards Ground |
|--|----------------|
| <p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz</p> <p>Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 2.067$ S/m; $\epsilon_r = 52.592$; $\rho = 1000$ kg/m³</p> <p>Phantom section: Flat Section</p> <p>Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.07, 4.07, 4.07); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section LTE Band7 TG/LTE Band7 TG M 1RB/Area Scan (9x14x1): Measurement grid: $dx=15$mm, $dy=15$mm</p> <p>Maximum value of SAR (measured) = 0.553 W/kg</p> <p>Flat-Section LTE Band7 TG/LTE Band7 TG M 1RB/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm</p> <p>Reference Value = 3.311 V/m; Power Drift = 0.03 dB</p> <p>Peak SAR (extrapolated) = 0.964 W/kg</p> <p>SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.350 W/kg</p> <p>Maximum value of SAR (measured) = 0.673 W/kg</p> <div style="display: flex; align-items: center;">  </div> <p>0 dB = 0.673 W/kg = -1.72 dBW/kg</p> | |

Wifi 2.4GHz

| Left Side | Cheek |
|--|-------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz</p> <p>Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 39.619$; $\rho = 1000$ kg/m³</p> <p>Phantom section: Left Section</p> <p>Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 9/15/2017 Phantom: SAM 1559; Type: QD 000 P40 CD; Serial: 1559 DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section Left HSL WIFI/WIFI touch M 2/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm</p> <p>Maximum value of SAR (measured) = 0.108 W/kg</p> <p>Head-Section Left HSL WIFI/WIFI touch M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm</p> <p>Reference Value = 5.638 V/m; Power Drift = 0.03 dB</p> <p>Peak SAR (extrapolated) = 0.203 W/kg</p> <p>SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.052 W/kg</p> <p>Maximum value of SAR (measured) = 0.108 W/kg</p> | |
|  <p>0 dB = 0.108 W/kg = -9.67 dBW/kg</p> | |

ANNEX B - RELEVANT PAGES FROM CALIBRATION REPORTS

DAE4 Sn:546

Calibration Laboratory of
Schneid & Partner
Engineering AG
Bismarckstrasse 10, 8090 Zurich, Switzerland

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client: SRTC (YH46) Certificate No.: DAE4-546_Aug16

CALIBRATION CERTIFICATE

Object: DAE4 - SD-500 D04 (Bn - Sfr) S46

Calibration procedure(s): DA-CAL-06 v09
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 22, 2016

This calibration certificate documents the traceability to national standards, which define the physical units of measurements (SI).
The measurement and the uncertainty level of calibration is given on the following pages and are part of the certificate.

All calibrations have been conducted in the client laboratory facility, environmental temperature (20 ± 0.2 °C) and humidity < 10%.

Calibration is performed using DAE4-546 (Bn - Sfr) S46

| Parameter | Unit | Cal Date | Cal Date | Uncertainty | Calibration |
|----------------------|------|------------|------------|-------------|-------------|
| Frequency | Hz | 2016/08/22 | 2016/08/22 | 10 Hz | 10 Hz |
| Amplitude | V | 2016/08/22 | 2016/08/22 | 10 V | 10 V |
| Auto DAE Calibration | Hz | 2016/08/22 | 2016/08/22 | 10 Hz | 10 Hz |
| Calibration Day 10 | Hz | 2016/08/22 | 2016/08/22 | 10 Hz | 10 Hz |

Calibration by: [Signature]
Reviewed by: [Signature]
Approved by: [Signature]

This calibration certificate shall not be reproduced, copied or used without written approval of the laboratory.

Certificate No.: DAE4-546_Aug16 Page 1 of 5

Calibration Laboratory of
Schneid & Partner
Engineering AG
Bismarckstrasse 10, 8090 Zurich, Switzerland

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client: SRTC (YH46) Certificate No.: DAE4-546_Aug16

Glossary

DAE: data acquisition electronics
Connector angle: information used in DAE4 system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DAE4 system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed by measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
- DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
- Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
- Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
- AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage.
- Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
- Input Offset Current: Typical value for information. Maximum channel input offset current, not considering the input resistance.
- Input resistance: Typical value for information. DAE input resistance of the connector, during internal auto-ranging and during measurement.
- Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
- Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No.: DAE4-546_Aug16 Page 2 of 5

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| High Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 20021.74 | -2.15 | -0.00 |
| Channel X - Input | 20021.66 | -0.75 | -0.00 |
| Channel X + Input | -20021.68 | 3.77 | -0.02 |
| Channel Y + Input | 20021.10 | -12.53 | -0.01 |
| Channel Y - Input | 20022.22 | -2.13 | -0.01 |
| Channel Y + Input | -20023.78 | 1.68 | -0.01 |
| Channel Z + Input | 20025.91 | -7.99 | -0.00 |
| Channel Z - Input | 19999.97 | -4.36 | -0.02 |
| Channel Z + Input | -20005.55 | 0.07 | -0.00 |

| Low Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2000.82 | -0.12 | -0.01 |
| Channel X - Input | 201.00 | 0.23 | 0.11 |
| Channel X + Input | -198.76 | 0.38 | -0.19 |
| Channel Y + Input | 2000.36 | -0.29 | -0.01 |
| Channel Y - Input | 200.22 | -0.57 | -0.29 |
| Channel Y + Input | -200.24 | -0.93 | 0.47 |
| Channel Z + Input | 2000.61 | 0.13 | 0.01 |
| Channel Z - Input | 199.06 | -1.52 | -0.76 |
| Channel Z + Input | -201.43 | -1.99 | 1.00 |

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Common mode Input Voltage (mV) | High Range Average Reading (µV) | Low Range Average Reading (µV) |
|--------------------------------|---------------------------------|--------------------------------|
| Channel X | 200 | 1.49 |
| Channel X | -200 | 1.41 |
| Channel Y | 200 | -0.40 |
| Channel Y | -200 | -1.08 |
| Channel Z | 200 | 2.19 |
| Channel Z | -200 | -4.93 |

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|--------------------|----------------|----------------|----------------|
| Channel X | 200 | -3.01 | -3.43 |
| Channel Y | 200 | 9.77 | -1.00 |
| Channel Z | 200 | 5.39 | 7.02 |

Certificate No.: DAE4-546_Aug16

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15845 | 16442 |
| Channel Y | 16150 | 14493 |
| Channel Z | 15907 | 16531 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Input (mV) | Average (µV) | min. Offset (µV) | max. Offset (µV) | Std. Deviation (µV) |
|------------|--------------|------------------|------------------|---------------------|
| Channel X | 1.22 | 0.21 | 1.94 | 0.35 |
| Channel Y | 0.27 | -1.07 | 1.43 | 0.50 |
| Channel Z | -0.65 | -1.46 | 0.11 | 0.35 |

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9 |
| Supply (- Vcc) | -7.6 |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

Certificate No.: DAE4-546_Aug16

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DAE4 Sn:546

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15845 | 16442 |
| Channel Y | 16150 | 14493 |
| Channel Z | 15807 | 16531 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Input (0mV) | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|-------------|--------------|------------------|------------------|---------------------|
| Channel X | 1.22 | 0.21 | 1.94 | 0.35 |
| Channel Y | 0.27 | -1.07 | 1.43 | 0.50 |
| Channel Z | -0.85 | -1.46 | 0.11 | 0.35 |

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9 |
| Supply (- Vcc) | -7.6 |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

Certificate No: DAE4-546_Aug16

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DAE4 Sn:720

Calibration Laboratory of
Sofrest & Partner
Engineering AG
Bergstrasse 10, 8080 Zurich, Switzerland

Accreditation No.: SCS 8108

Calibration Certificate No: DAE4-720_S016

CALIBRATION CERTIFICATE

Client: SRTC (TNC)

Item: DAE4 - 00-000 DAE4 BW - SCS 720

Calibration procedure: QA CAL-001019
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: October 31, 2016

This calibration certificate documents the traceability to national standards, which realize the physical units of measurement (SI).
The measurement and the calibration self-assessment uncertainty are given on the following pages and are part of the certificate.

All calibration have been conducted in the closed laboratory facility, environmental temperature (20 ± 0.5 °C) and humidity < 10%.

Calibration Equipment used (DAE4) verified for calibration:

| Primary Standard | SI Unit | Cal Date (Certificate No.) | Expiry Date |
|---------------------------------|---------|----------------------------|-------------|
| Measuring Multimeter 1-pole 001 | SI Unit | 01.01.2016 | 01.01.2017 |

Secondary Standard:

| SI Unit | Cal Date (Certificate No.) | Expiry Date |
|----------------------------|----------------------------|-------------|
| Peak-DAC Calibration (DAE) | 01.01.2016 | 01.01.2017 |
| Calibration Test (V1.1) | 01.01.2016 | 01.01.2017 |

Calibrated by: Name: Christoph Boller, Position: Technician, Signature: [Signature]

Reviewed by: Name: [Name], Position: Quality Manager, Signature: [Signature]

This calibration certificate shall not be reproduced or copied in full without written approval of the laboratory.

Calibration No: DAE4-720_S016

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DAE4 Sn:720

Calibration Laboratory of
Suzhou & Partner
Engineering AG
Baugrabenstrasse 10, 8000 Zurich, Switzerland

ISO 9001

Service center for electronic
services and repair
Service Calibration Service

Accreditation No.: SCS 0108

Recognized by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the ILAC
Mutual Recognition Agreement for the recognition of calibration certificates

Glossary
DAS: data acquisition electronics
Connector angle: information used in DAS system to align probe sensor X to the robot
coordinate system.

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DAS system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** This angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage.
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information. Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** Typical value for information. DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

AD-Converter Resolution (nominal)
High Range: 11.99 mV
Low Range: 11.99 mV

Full range: -100...+200 mV
Full range: -10...+200 mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Y | Z |
|---------------------|------------------------|------------------------|------------------------|
| High Range | -400.000 ± 0.001% (3σ) | -400.000 ± 0.001% (3σ) | -400.000 ± 0.001% (3σ) |
| Low Range | -400.000 ± 0.001% (3σ) | -400.000 ± 0.001% (3σ) | -400.000 ± 0.001% (3σ) |

Connector Angle

| | |
|---|------------|
| Connector angle to the used in DAS system | 89.0° ± 1° |
|---|------------|

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 200030.00 | -2.83 | -0.00 |
| Channel X + Input | 20005.59 | 1.21 | 0.01 |
| Channel X - Input | -20002.63 | 2.74 | -0.01 |
| Channel Y + Input | 200031.46 | -1.44 | -0.00 |
| Channel Y + Input | 20003.49 | -0.90 | -0.00 |
| Channel Y - Input | -20003.62 | 1.72 | -0.01 |
| Channel Z + Input | 200030.86 | -1.63 | -0.00 |
| Channel Z + Input | 20001.58 | -2.67 | -0.01 |
| Channel Z - Input | -20009.93 | -4.50 | 0.02 |

| | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 1999.86 | -0.99 | -0.05 |
| Channel X + Input | 200.42 | -0.42 | -0.21 |
| Channel X - Input | -199.45 | -0.24 | 0.12 |
| Channel Y + Input | 2000.78 | -0.01 | -0.00 |
| Channel Y + Input | 200.66 | -0.06 | -0.03 |
| Channel Y - Input | -199.50 | -0.28 | 0.14 |
| Channel Z + Input | 2000.45 | -0.29 | -0.01 |
| Channel Z + Input | 199.41 | -1.33 | -0.66 |
| Channel Z - Input | -200.21 | -0.92 | 0.46 |

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (µV) | Low Range Average Reading (µV) |
|-----------|--------------------------------|---------------------------------|--------------------------------|
| Channel X | 200 | -2.59 | -3.72 |
| | -200 | 7.16 | 5.57 |
| Channel Y | 200 | 15.89 | 15.82 |
| | -200 | -16.62 | -17.01 |
| Channel Z | 200 | -16.19 | -16.08 |
| | -200 | 14.56 | 14.81 |

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200 | - | 0.26 | -3.89 |
| Channel Y | 200 | 8.74 | - | 0.77 |
| Channel Z | 200 | 6.36 | 7.07 | - |

Certificate No: DAE4-720_Oct16

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16156 | 16521 |
| Channel Y | 16178 | 16048 |
| Channel Z | 16424 | 15774 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Average (µV) | min. Offset (µV) | max. Offset (µV) | Std. Deviation (µV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 0.75 | -1.14 | 2.77 | 0.62 |
| Channel Y | -0.03 | -1.04 | 0.90 | 0.43 |
| Channel Z | -0.18 | -2.07 | 1.75 | 0.69 |

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9 |
| Supply (- Vcc) | -7.6 |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

Certificate No: DAE4-720_Oct16

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ES3DV3 Sn:3127

[illegible]

**California Laboratory of
Signal & Power
Engineering AG**
Ausp. Nr. 100-100, München



Schweitzer-Kohnen
Service center, planning
and construction of antenna
Dachstuhl-Service

Document No.: **SCB 010**

Approved by the Swiss Association (Swiss AGS)
The Swiss Association, however, is not responsible for the AGS
members or signatories for the installation of antennas on buildings.

Glossary:

| |
|--|
| <p>NORMS: a) EN 60330-1 b) EN 60330-2 c) EN 60330-3 d) EN 60330-4 e) EN 60330-5 f) EN 60330-6 g) EN 60330-7 h) EN 60330-8 i) EN 60330-9 j) EN 60330-10 k) EN 60330-11 l) EN 60330-12 m) EN 60330-13 n) EN 60330-14 o) EN 60330-15 p) EN 60330-16 q) EN 60330-17 r) EN 60330-18 s) EN 60330-19 t) EN 60330-20 u) EN 60330-21 v) EN 60330-22 w) EN 60330-23 x) EN 60330-24 y) EN 60330-25 z) EN 60330-26 aa) EN 60330-27 ab) EN 60330-28 ac) EN 60330-29 ad) EN 60330-30 ae) EN 60330-31 af) EN 60330-32 ag) EN 60330-33 ah) EN 60330-34 ai) EN 60330-35 aj) EN 60330-36 ak) EN 60330-37 al) EN 60330-38 am) EN 60330-39 an) EN 60330-40 ao) EN 60330-41 ap) EN 60330-42 aq) EN 60330-43 ar) EN 60330-44 as) EN 60330-45 at) EN 60330-46 au) EN 60330-47 av) EN 60330-48 aw) EN 60330-49 ax) EN 60330-50 ay) EN 60330-51 az) EN 60330-52 ba) EN 60330-53 bb) EN 60330-54 bc) EN 60330-55 bd) EN 60330-56 be) EN 60330-57 bf) EN 60330-58 bg) EN 60330-59 bh) EN 60330-60 bi) EN 60330-61 bj) EN 60330-62 bk) EN 60330-63 bl) EN 60330-64 bm) EN 60330-65 bn) EN 60330-66 bo) EN 60330-67 bp) EN 60330-68 bq) EN 60330-69 br) EN 60330-70 bs) EN 60330-71 bt) EN 60330-72 bu) EN 60330-73 bv) EN 60330-74 bw) EN 60330-75 bx) EN 60330-76 by) EN 60330-77 bz) EN 60330-78 ca) EN 60330-79 cb) EN 60330-80 cc) EN 60330-81 cd) EN 60330-82 ce) EN 60330-83 cf) EN 60330-84 cg) EN 60330-85 ch) EN 60330-86 ci) EN 60330-87 cj) EN 60330-88 ck) EN 60330-89 cl) EN 60330-90 cm) EN 60330-91 cn) EN 60330-92 co) EN 60330-93 cp) EN 60330-94 cq) EN 60330-95 cr) EN 60330-96 cs) EN 60330-97 ct) EN 60330-98 cu) EN 60330-99 cv) EN 60330-100 cw) EN 60330-101 cx) EN 60330-102 cy) EN 60330-103 cz) EN 60330-104 da) EN 60330-105 db) EN 60330-106 dc) EN 60330-107 dd) EN 60330-108 de) EN 60330-109 df) EN 60330-110 dg) EN 60330-111 dh) EN 60330-112 di) EN 60330-113 dj) EN 60330-114 dk) EN 60330-115 dl) EN 60330-116 dm) EN 60330-117 dn) EN 60330-118 do) EN 60330-119 dp) EN 60330-120 dq) EN 60330-121 dr) EN 60330-122 ds) EN 60330-123 dt) EN 60330-124 du) EN 60330-125 dv) EN 60330-126 dw) EN 60330-127 dx) EN 60330-128 dy) EN 60330-129 dz) EN 60330-130 ea) EN 60330-131 eb) EN 60330-132 ec) EN 60330-133 ed) EN 60330-134 ee) EN 60330-135 ef) EN 60330-136 eg) EN 60330-137 eh) EN 60330-138 ei) EN 60330-139 ej) EN 60330-140 ek) EN 60330-141 el) EN 60330-142 em) EN 60330-143 en) EN 60330-144 eo) EN 60330-145 ep) EN 60330-146 eq) EN 60330-147 er) EN 60330-148 es) EN 60330-149 et) EN 60330-150 eu) EN 60330-151 ev) EN 60330-152 ew) EN 60330-153 ex) EN 60330-154 ey) EN 60330-155 ez) EN 60330-156 fa) EN 60330-157 fb) EN 60330-158 fc) EN 60330-159 fd) EN 60330-160 fe) EN 60330-161 ff) EN 60330-162 fg) EN 60330-163 fh) EN 60330-164 fi) EN 60330-165 fj) EN 60330-166 fk) EN 60330-167 fl) EN 60330-168 fm) EN 60330-169 fn) EN 60330-170 fo) EN 60330-171 fp) EN 60330-172 fq) EN 60330-173 fr) EN 60330-174 fs) EN 60330-175 ft) EN 60330-176 fu) EN 60330-177 fv) EN 60330-178 fw) EN 60330-179 fx) EN 60330-180 fy) EN 60330-181 fz) EN 60330-182 ga) EN 603</p> |
|--|

ES3DV3 - SN 3127

August 29, 2016

Probe ES3DV3

SN:3127

Manufactured: July 11, 2006
Calibrated: August 29, 2016

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

Certificate No: ES3-3127 Aug16

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ES3DV3-SN:3127

August 29, 2016

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---------------------------|----------|----------|----------|--------------|
| Norm $(\mu V/(V/m))^2)^A$ | 1.26 | 1.23 | 1.18 | $\pm 10.1\%$ |
| DCP (mV) ^B | 102.7 | 101.6 | 103.7 | |

Modulation Calibration Parameters

| UID | Communication System Name | A dB | B dB μ V | C | D dB | VR mV | Unc ^k (k=2) |
|-----|---------------------------|---------|-----------------|-----|---------|----------|---------------------------|
| 0 | CW | X 0.0 | 0.0 | 1.0 | 0.0 | 209.2 | $\pm 3.3\%$ |
| | | Y 0.0 | 0.0 | 1.0 | | 213.6 | |
| | | Z 0.0 | 0.0 | 1.0 | | 202.7 | |

Note: For details on UID parameters see Appendix

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%.

^a The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 6 and 61)

^a Numerical linearization parameter; uncertainty not required.

^g Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

ES3DV3 Sn:3127

ES3DV3-SN:3127

August 29, 2016

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) | Relative Permittivity ϵ_r | Conductivity σ (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha $^\circ$ | Depth (mm) | Unc (k=2) |
|---------|------------------------------------|-----------------------------|---------|---------|---------|----------------|------------|--------------|
| 450 | 43.5 | 0.87 | 6.74 | 6.74 | 6.74 | 0.21 | 2.30 | $\pm 13.3\%$ |
| 750 | 41.9 | 0.89 | 6.55 | 6.55 | 6.55 | 0.62 | 1.37 | $\pm 12.0\%$ |
| 900 | 41.5 | 0.97 | 6.20 | 6.20 | 6.20 | 0.54 | 1.41 | $\pm 12.0\%$ |
| 1450 | 40.5 | 1.20 | 5.44 | 5.44 | 5.44 | 0.80 | 1.06 | $\pm 12.0\%$ |
| 1810 | 40.0 | 1.40 | 5.15 | 5.15 | 5.15 | 0.80 | 1.16 | $\pm 12.0\%$ |
| 2000 | 40.0 | 1.40 | 5.11 | 5.11 | 5.11 | 0.68 | 1.28 | $\pm 12.0\%$ |
| 2300 | 39.5 | 1.67 | 4.83 | 4.83 | 4.83 | 0.80 | 1.19 | $\pm 12.0\%$ |
| 2450 | 39.2 | 1.80 | 4.61 | 4.61 | 4.61 | 0.67 | 1.38 | $\pm 12.0\%$ |
| 2600 | 39.0 | 1.96 | 4.40 | 4.40 | 4.40 | 0.70 | 1.36 | $\pm 12.0\%$ |

^c 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.
At frequencies below 3 GHz, the validity of tissue parameters (ϵ_r and σ) can be relaxed to $\pm 10\%$ if liquid compensation formula is applied to measured S4S values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ_r and σ) is restricted to $\pm 5\%$. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
^d AlphaDepth are determined during calibration. SP540 warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1\%$ for frequencies below 3 GHz and below $\pm 2\%$ for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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August 29, 2016

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127

Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) | Relative Permittivity ϵ_r | Conductivity σ (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha $^\circ$ | Depth (mm) | Unc (k=2) |
|---------|------------------------------------|-----------------------------|---------|---------|---------|----------------|------------|--------------|
| 450 | 56.7 | 0.94 | 6.99 | 6.99 | 6.99 | 0.12 | 2.10 | $\pm 13.3\%$ |
| 750 | 55.5 | 0.96 | 6.12 | 6.12 | 6.12 | 0.80 | 1.14 | $\pm 12.0\%$ |
| 900 | 55.0 | 1.05 | 6.16 | 6.16 | 6.16 | 0.46 | 1.53 | $\pm 12.0\%$ |
| 1450 | 54.0 | 1.30 | 5.29 | 5.29 | 5.29 | 0.74 | 1.21 | $\pm 12.0\%$ |
| 1810 | 53.3 | 1.52 | 4.90 | 4.90 | 4.90 | 0.43 | 1.69 | $\pm 12.0\%$ |
| 2000 | 53.3 | 1.52 | 4.92 | 4.92 | 4.92 | 0.55 | 1.48 | $\pm 12.0\%$ |
| 2300 | 52.9 | 1.81 | 4.63 | 4.63 | 4.63 | 0.80 | 1.24 | $\pm 12.0\%$ |
| 2450 | 52.7 | 1.95 | 4.36 | 4.36 | 4.36 | 0.71 | 1.22 | $\pm 12.0\%$ |
| 2600 | 52.5 | 2.16 | 4.17 | 4.17 | 4.17 | 0.80 | 1.11 | $\pm 12.0\%$ |

^c 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.
At frequencies below 3 GHz, the validity of tissue parameters (ϵ_r and σ) can be relaxed to $\pm 10\%$ if liquid compensation formula is applied to measured S4S values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ_r and σ) is restricted to $\pm 5\%$. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
^d AlphaDepth are determined during calibration. SP540 warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1\%$ for frequencies below 3 GHz and below $\pm 2\%$ for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

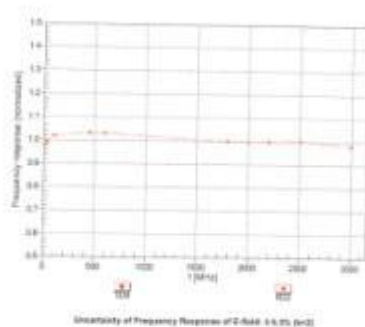
Certificate No: ES3-3127_Aug16

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ES3DV3-SN:3127

Aug 16, 2016

Frequency Response of E-Field (TEM-Cal: 6119 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-Field: $\pm 0.2\%$ (k=2)

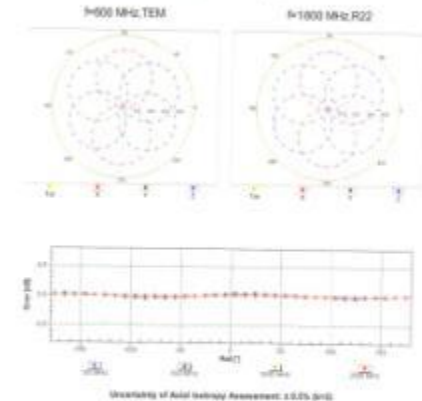
Certificate No: ES3-3127_Aug16

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August 29, 2016

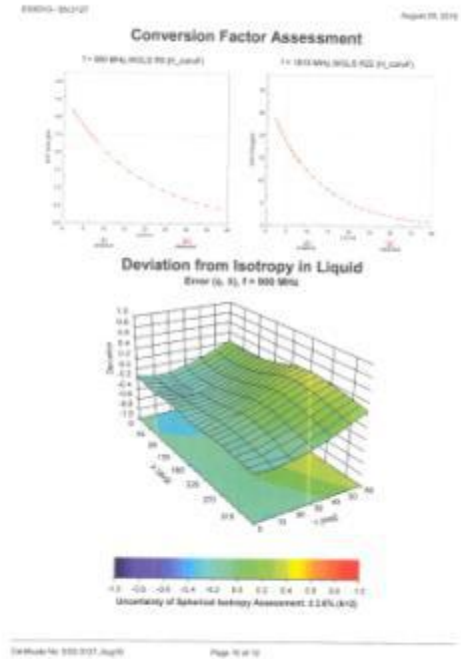
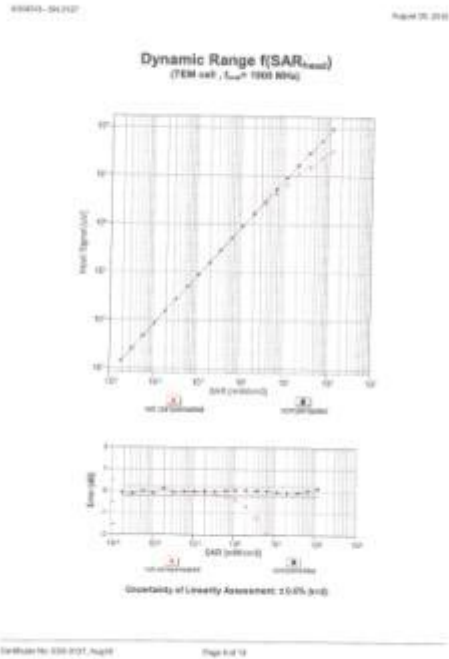
Receiving Pattern (ϕ), $\theta = 0^\circ$



Certificate No: ES3-3127_Aug16

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ES3DV3 Sn:3127



ES3DV3-SN:3127 August 29, 2016

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127

Other Probe Parameters

| | |
|---|------------|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | ~15.8 |
| 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 |

Certificate No: ES3-3127_Aug16

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ES3DV3-SN:3127 August 29, 2016

Appendix: Modulation Calibration Parameters

| UID | Communication System Name | A dB | B dBμV | C | D dB | VR mV | Unc ¹ (k=2) |
|-----------|--|-------------------------------|----------------------|----------------------|---------|----------|---------------------------|
| 0 | CW | X: 0.0 Y: 0.0 Z: 0.0 | 0.0 0.0 0.0 | 1.0 1.0 1.0 | 0.00 | 289.2 | ±5.3 % |
| 10012-CAB | IEEE 802.11b WIF 2.4 GHz (DSSS, 1 Mbps) | X: 3.29 Y: 2.75 Z: 3.10 | 71.4 67.3 70.4 | 20.2 17.9 19.7 | 1.87 | 125.8 | ±0.7 % |
| 10108-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X: 6.43 Y: 6.43 Z: 6.36 | 67.7 67.5 67.6 | 20.1 19.7 20.0 | 5.80 | 137.8 | ±1.4 % |
| 10110-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | X: 6.17 Y: 6.14 Z: 6.02 | 67.4 67.0 67.0 | 20.0 19.8 19.7 | 5.79 | 134.4 | ±1.4 % |
| 10154-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | X: 6.13 Y: 6.19 Z: 6.04 | 67.3 67.3 67.1 | 19.9 19.8 19.8 | 5.75 | 133.5 | ±1.2 % |
| 10169-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | X: 5.00 Y: 5.04 Z: 4.89 | 66.6 66.9 66.5 | 19.8 19.7 19.7 | 5.73 | 117.2 | ±0.9 % |
| 10175-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X: 4.97 Y: 4.93 Z: 4.87 | 66.6 66.3 66.5 | 19.7 19.4 18.6 | 5.72 | 117.2 | ±0.9 % |
| 10297-AAA | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | X: 4.51 Y: 4.46 Z: 6.37 | 68.0 67.6 67.6 | 20.3 19.9 20.0 | 5.81 | 137.1 | ±1.4 % |

¹ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the test value.

Certificate No: ES3-3127_Aug16

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EX3DV4 Sn:3708

November 10, 2014

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Calibration Performed Determined in Head Tissue Stimulating Media

| [X] (mg) | Calculated results | | | | | | [X] ₀ (mg) | [X] ₀ (mg) |
|----------|--------------------|-------------------------|----------------|----------------|----------------|----------------|-----------------------|-----------------------|
| | Relative Frequency | Standard Deviation (SD) | Mean \bar{x} | Mean \bar{x} | Mean \bar{x} | Mean \bar{x} | | |
| 100 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 100 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.71 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 7.04 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | 0.00 | ± 0.10 |
| 1000 | 0.17 | 0.17 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | ± 0.12 |
| 1000 | 0.17 | 1.40 | 7.04 | 7.04 | 7.04 | 0.00 | | |

[illegible]

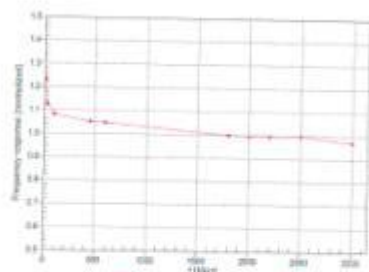
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November 12, 2008

Frequency Response of E-Field

(TDM-Cell: BT110 EXX, Waveguide: R12)



Uncertainty of Frequency Response of E-400: 0.3% (avg)

Certificate No. 010-0100, Nov 10 Pages 4 of 10

40 pages of text

012714-061790 November 10, 2004

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Calibration Parameter Determined in Body Tissue Simulating Media

| 136MeV | Relative Polarization | Uncertainty | Count \times | Count \times | Count \times | Alpha \times | Ratio (90%) | Ratio (95%) |
|-----------------|--------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0001 | 33.2 | 1.00 | 9.10 | 9.10 | 9.10 | 0.44 | 0.60 | $\pm 12.0\%$ |
| 0010 | 35.0 | 1.02 | 7.70 | 7.70 | 7.70 | 0.44 | 0.60 | $\pm 12.0\%$ |
| 0030 | 33.9 | 1.02 | 7.71 | 7.71 | 7.71 | 0.43 | 0.59 | $\pm 12.0\%$ |
| 0050 | 32.7 | 1.06 | 7.27 | 7.27 | 7.27 | 0.40 | 0.58 | $\pm 12.0\%$ |
| 0070 | 40.0 | 0.98 | 4.82 | 4.82 | 4.82 | 0.40 | 0.59 | $\pm 13.1\%$ |
| 0090 | 48.3 | 0.82 | 4.81 | 4.81 | 4.81 | 0.42 | 0.60 | $\pm 13.1\%$ |
| 0100 | 49.8 | 0.86 | 4.07 | 4.07 | 4.07 | 0.50 | 0.66 | $\pm 13.1\%$ |
| 0120 | 49.3 | 0.77 | 3.06 | 3.06 | 3.06 | 0.60 | 0.78 | $\pm 13.1\%$ |
| 0140 | 47.4 | 0.82 | 4.10 | 4.10 | 4.10 | 0.50 | 0.66 | $\pm 13.1\%$ |

[illegible]

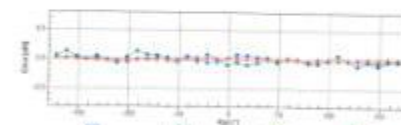
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0022-0474/04/040224-06\$15.00/0
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Receiving Pattern (d), $\theta = 0^\circ$

Author's note: This article is based on the author's research for her book, *How to Be a Good Parent* (New York: HarperCollins, 2010).



(University of Saskatchewan, Saskatoon, S4N 0A2, Canada)

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