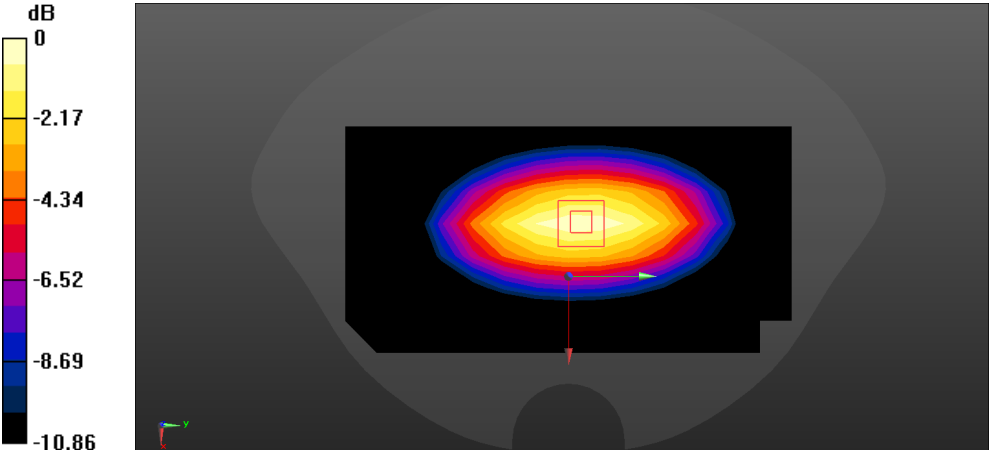
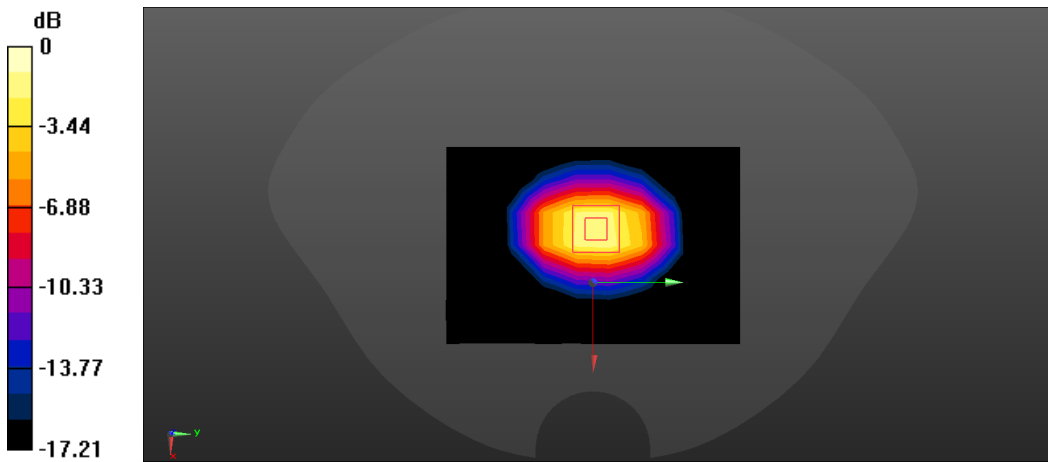
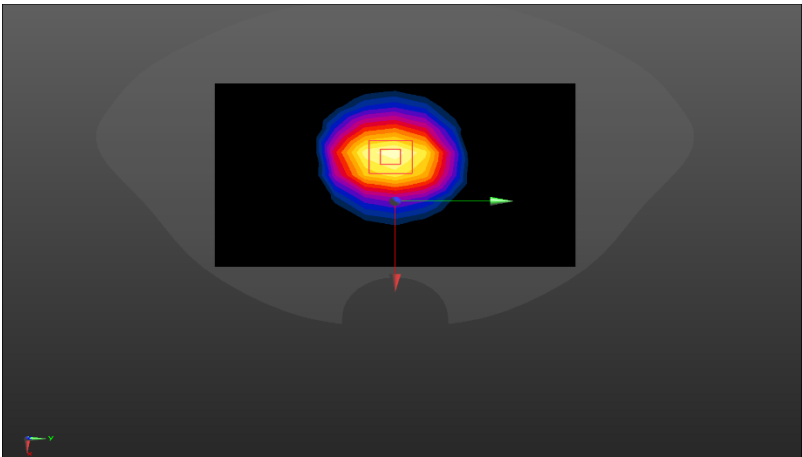


ANNEX A – TEST PLOTS

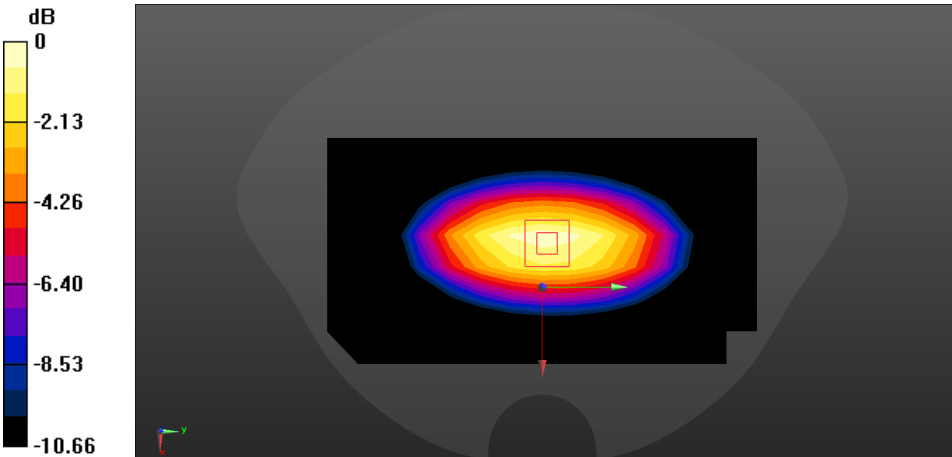
Head liquid

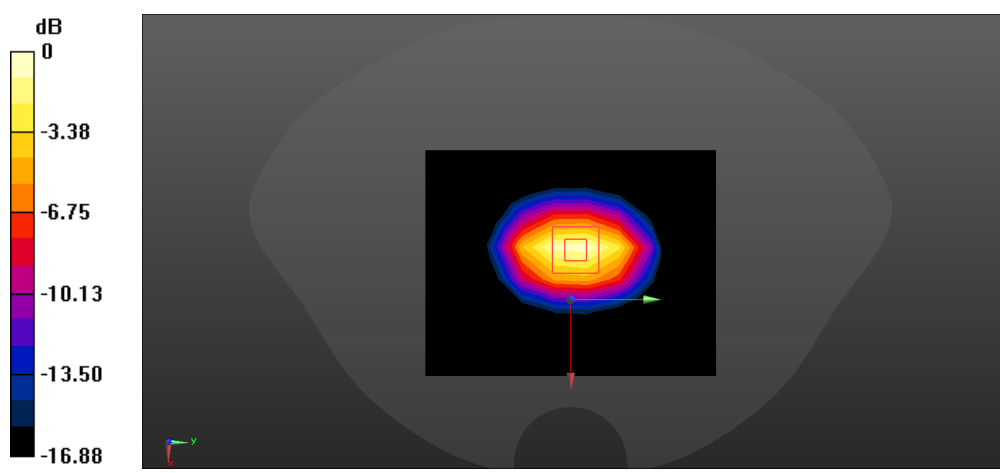
System check	835MHz
Communication System: UID 0, CW (0); Frequency: 835 MHz Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.87 W/kg Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 52.13 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.66 W/kg SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.55 W/kg Maximum value of SAR (measured) = 2.67 W/kg	
 0 dB = 2.67 W/kg = 4.27 dBW/kg	

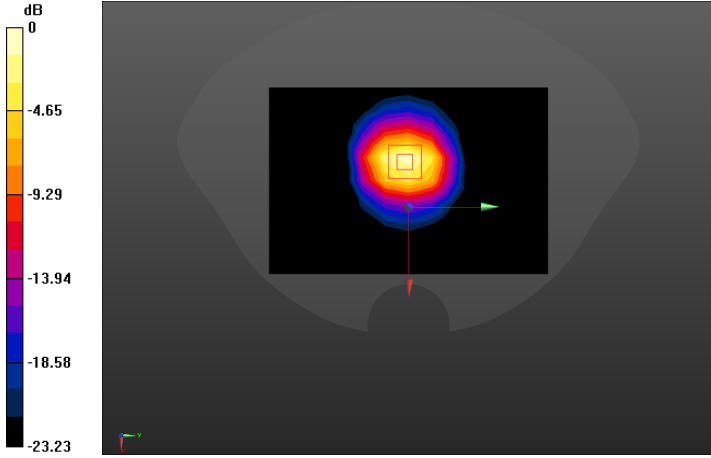
System check	1800MHz
Communication System: UID 0, CW (0); Frequency: 1800 MHz Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.411 \text{ S/m}$; $\epsilon_r = 40.607$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration 1800/1800/Area Scan (7x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 8.31 W/kg Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 76.60 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 17.5 W/kg SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.96 W/kg Maximum value of SAR (measured) = 12.1 W/kg  0 dB = 12.1 W/kg = 10.83 dBW/kg	

System check	2450MHz
Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz Medium parameters used: $f = 2450$ MHz; $\sigma = 1.833$ S/m; $\epsilon_r = 39.583$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Area Scan (9x13x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 21.87 W/kg System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 98.95 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 27.9 W/kg SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.96 W/kg Maximum value of SAR (measured) = 12.56 W/kg dB 0 -4.66 -9.31 -13.97 -18.62 -23.28  0 dB = 12.56 W/kg = 10.99 dBW/kg	

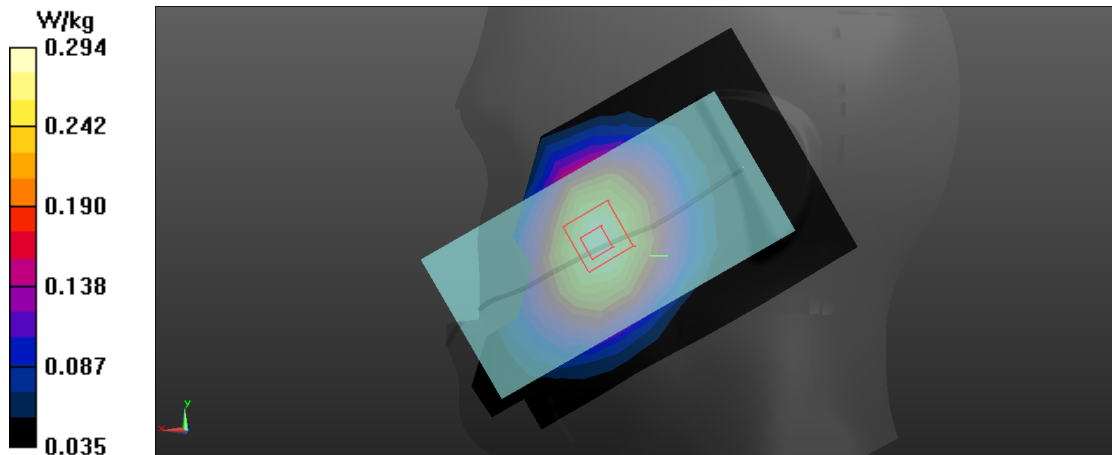
Body liquid

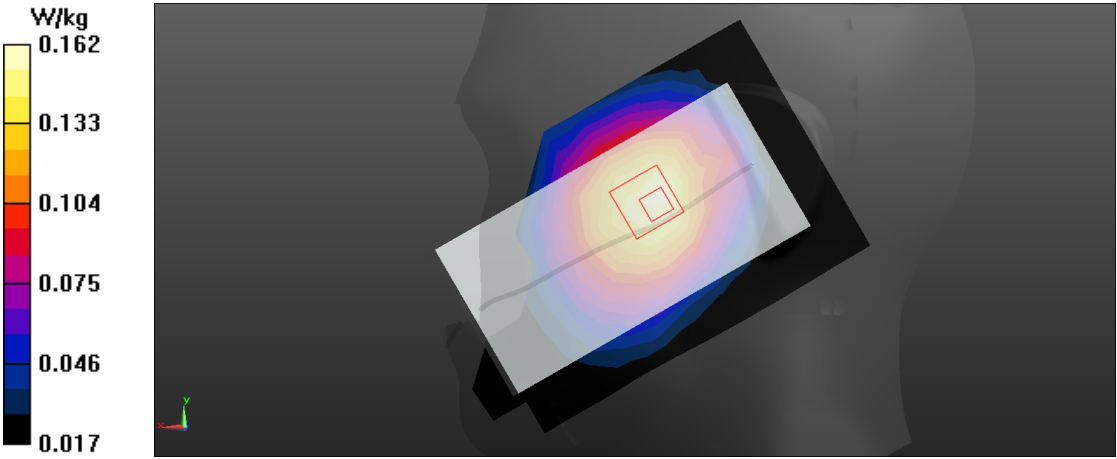
System check	835MHz
Communication System: UID 0, CW (0); Frequency: 835 MHz Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 56.196$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration 835/835/Area Scan (8x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 2.57 W/kg Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 51.34 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 3.26 W/kg SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.49 W/kg Maximum value of SAR (measured) = 2.58 W/kg	
 0 dB = 2.58 W/kg = 4.11 dBW/kg	

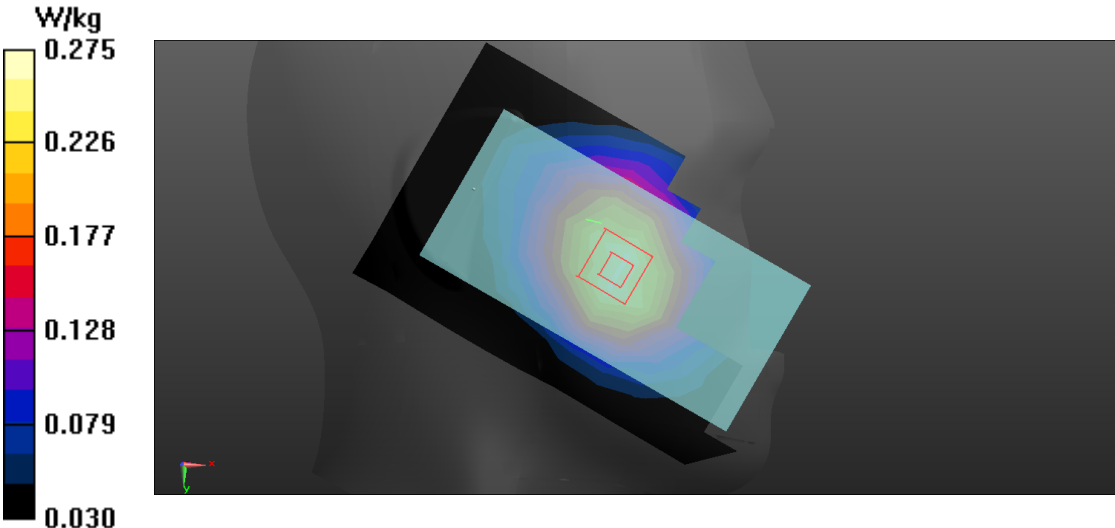
System check	1800MHz
Communication System: UID 0, CW (0); Frequency: 1800 MHz Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.542 \text{ S/m}$; $\epsilon_r = 51.717$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration 1800/1800/Area Scan (8x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 11.5 W/kg Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 80.17 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 17.8 W/kg SAR(1 g) = 9.67 W/kg; SAR(10 g) = 5.03 W/kg Maximum value of SAR (measured) = 12.4 W/kg	
 0 dB = 12.4 W/kg = 10.93 dBW/kg	

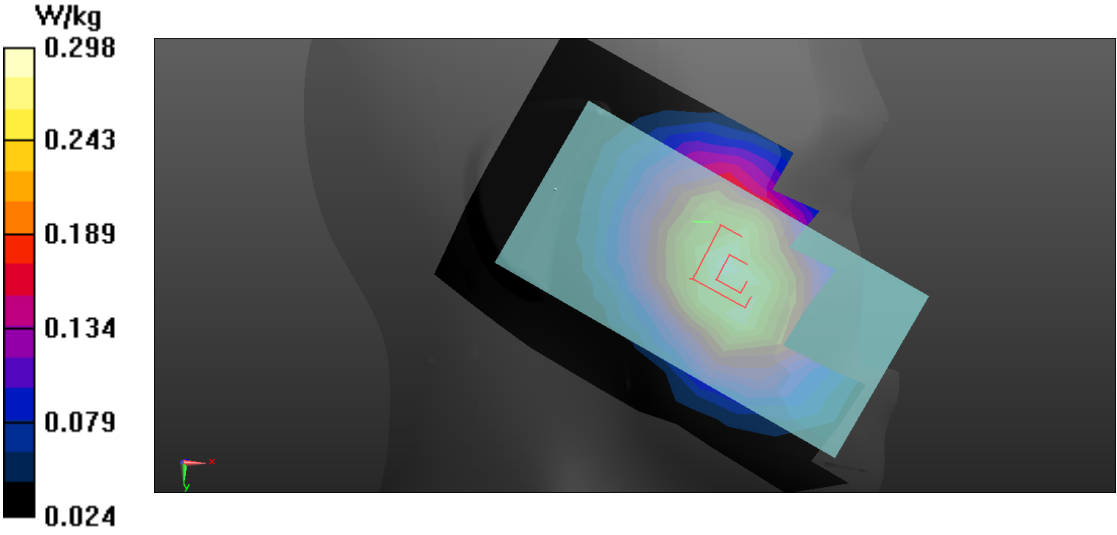
System check	2450MHz
Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 2.027$ S/m; $\epsilon_r = 51.046$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Area Scan (9x13x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 13.4 W/kg System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 62.29 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 29.3 W/kg SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.13 W/kg Maximum value of SAR (measured) = 18.9 W/kg  0 dB = 18.9 W/kg = 12.76 dBW/kg	

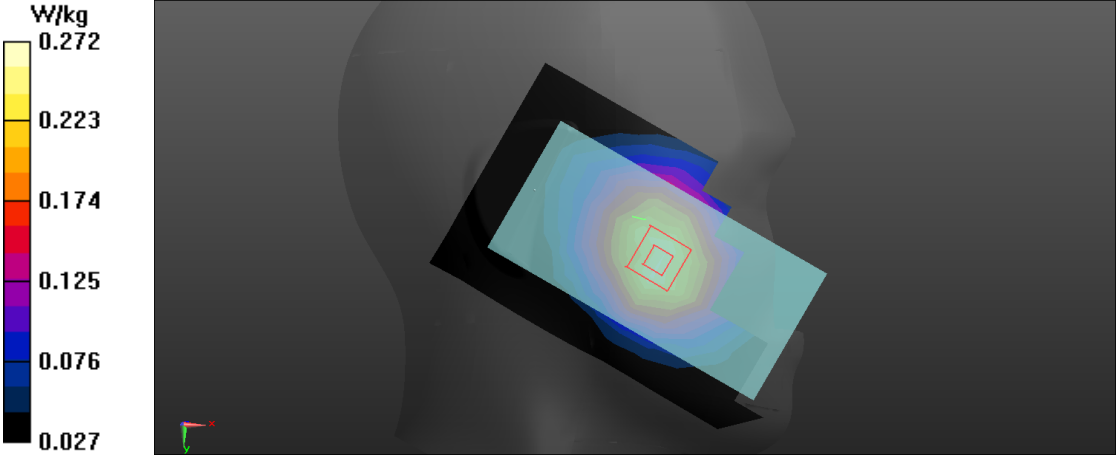
GSM (850MHz/Head)

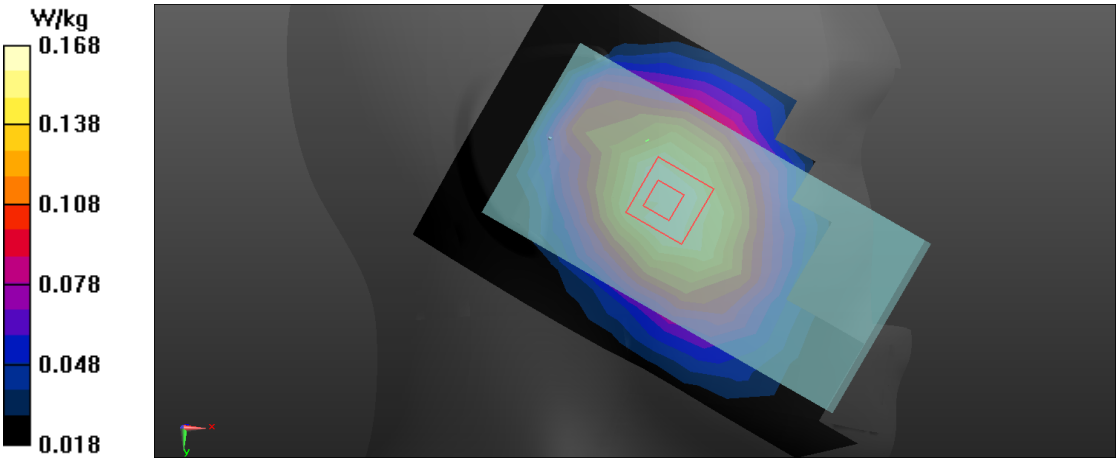
Left Side	Cheek
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL 850/850GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.295 W/kg Head-Section Left HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.846 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.333 W/kg SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.200 W/kg Maximum value of SAR (measured) = 0.294 W/kg	
	

Left Side	Tilt
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL 850/850GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.159 W/kg Head-Section Left HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.423 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.187 W/kg SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.107 W/kg Maximum value of SAR (measured) = 0.162 W/kg 	

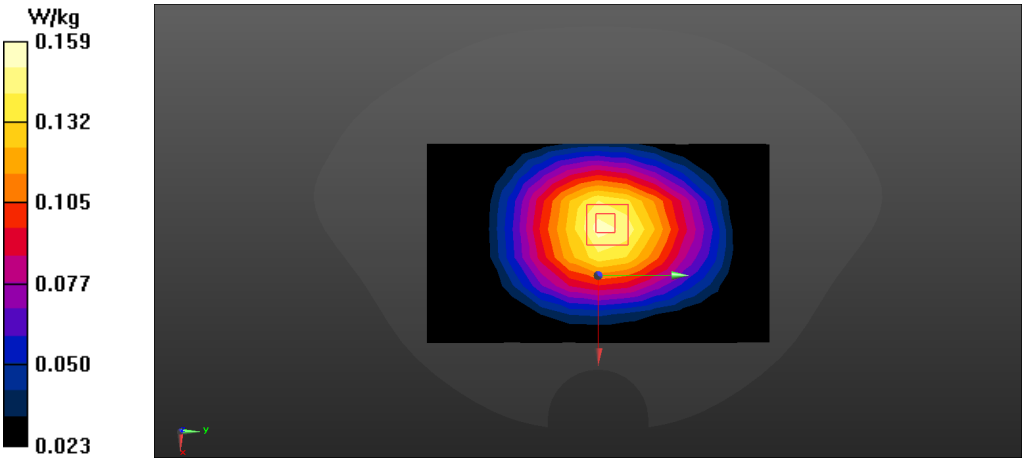
Right Side	Cheek
Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz; Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.593$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 850/850GSM HSL touch L/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.263 W/kg Head-Section Right HSL 850/850GSM HSL touch L/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.718 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.321 W/kg SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.180 W/kg Maximum value of SAR (measured) = 0.275 W/kg 	

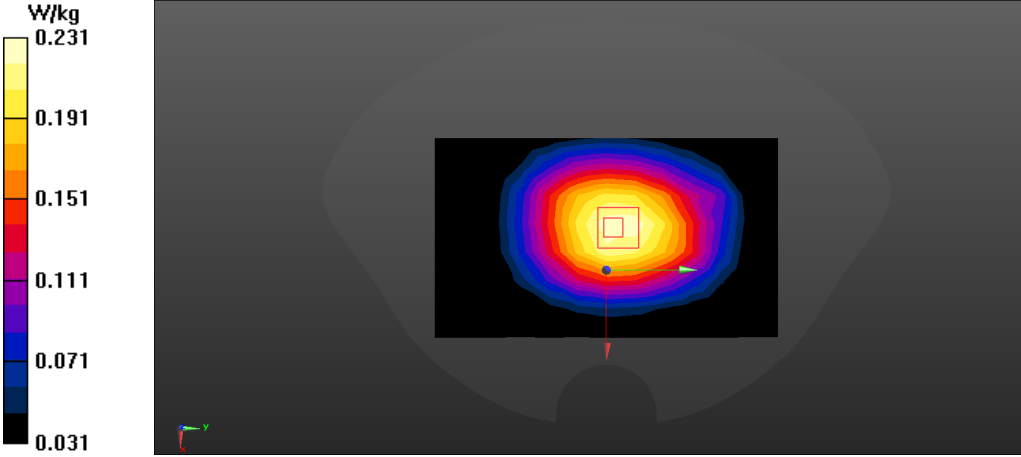
Right Side	Cheek
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 850/850GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.292 W/kg Head-Section Right HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.837 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.338 W/kg SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.204 W/kg Maximum value of SAR (measured) = 0.298 W/kg 	

Right Side	Cheek
Communication System: UID 0, Generic GSM (0); Frequency: 848.6 MHz; Medium parameters used (interpolated): $f = 848.6$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 42.449$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 850/850GSM HSL touch H/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.260 W/kg Head-Section Right HSL 850/850GSM HSL touch H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.300 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.316 W/kg SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.178 W/kg Maximum value of SAR (measured) = 0.272 W/kg 	

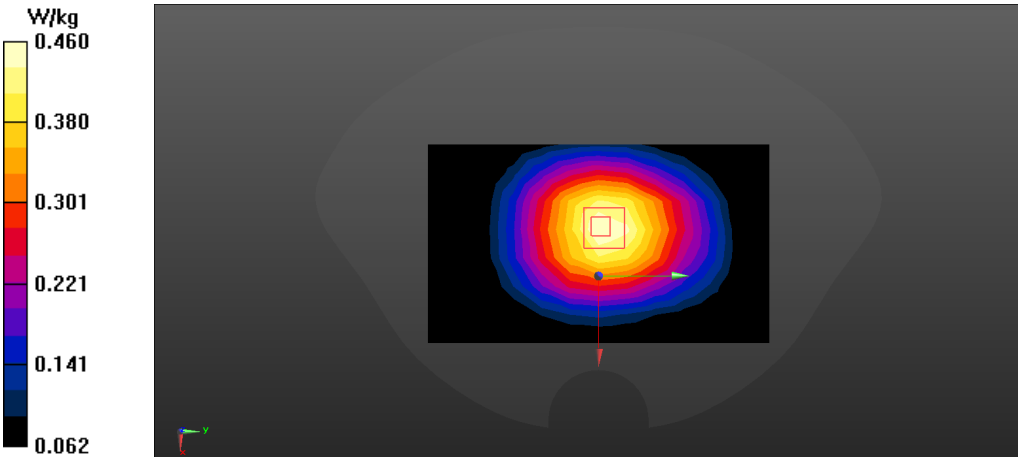
Right Side	Tilt
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 850/850GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.167 W/kg Head-Section Right HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.010 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 0.195 W/kg SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.115 W/kg Maximum value of SAR (measured) = 0.168 W/kg 	

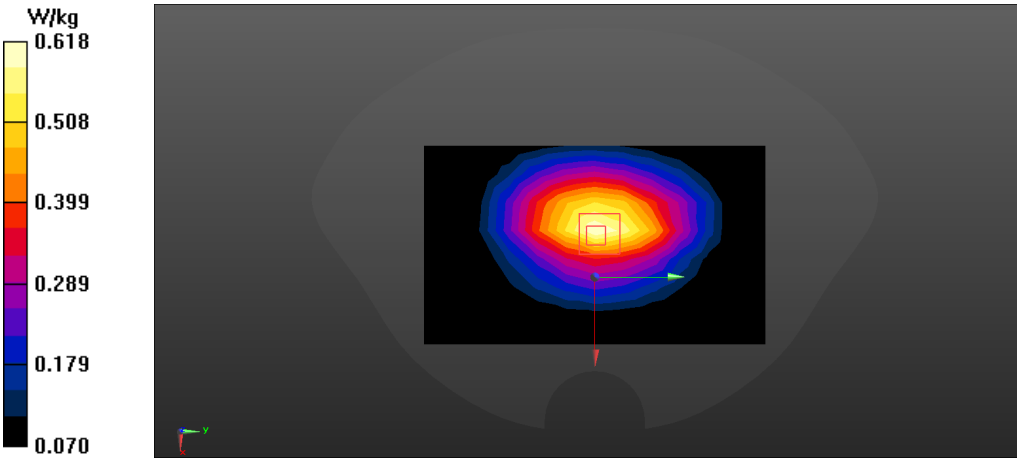
GSM with headset (850MHz/Flat)

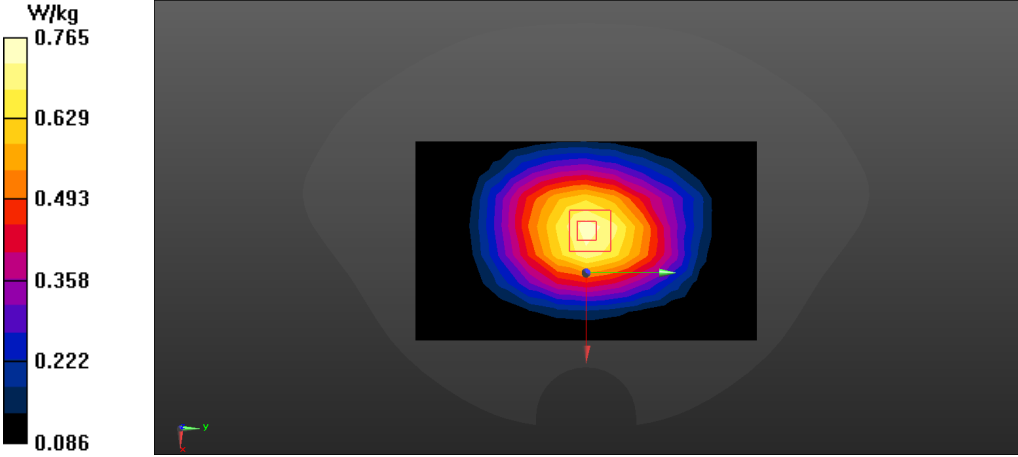
FLAT	Towards phantom
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/GSM850 TP M 10mm M 2 2 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.155 W/kg Configuration/GSM850 TP M 10mm M 2 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.63 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.187 W/kg SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.105 W/kg Maximum value of SAR (measured) = 0.159 W/kg	
	

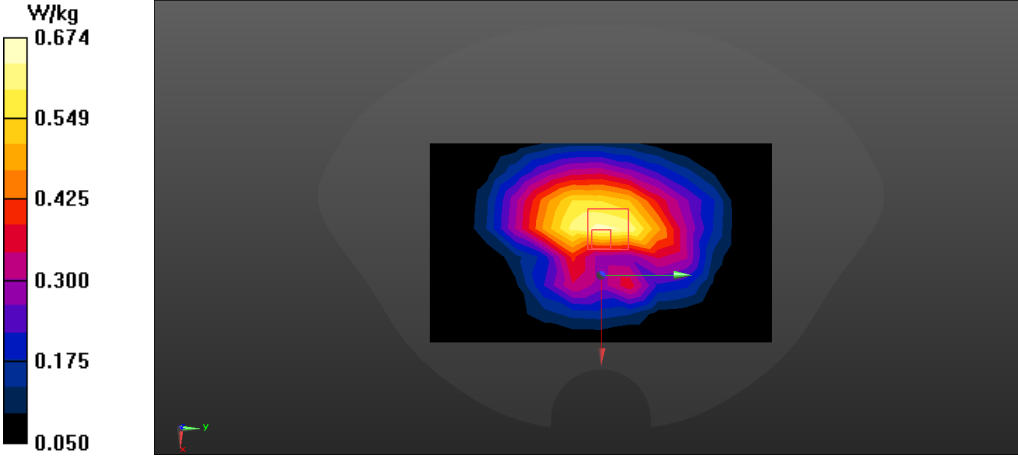
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/GSM850 TG M 10mm M 2 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.228 W/kg Configuration/GSM850 TG M 10mm M 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 15.53 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.270 W/kg SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.157 W/kg Maximum value of SAR (measured) = 0.231 W/kg 	

GSM (850MHz with GPRS/Flat)

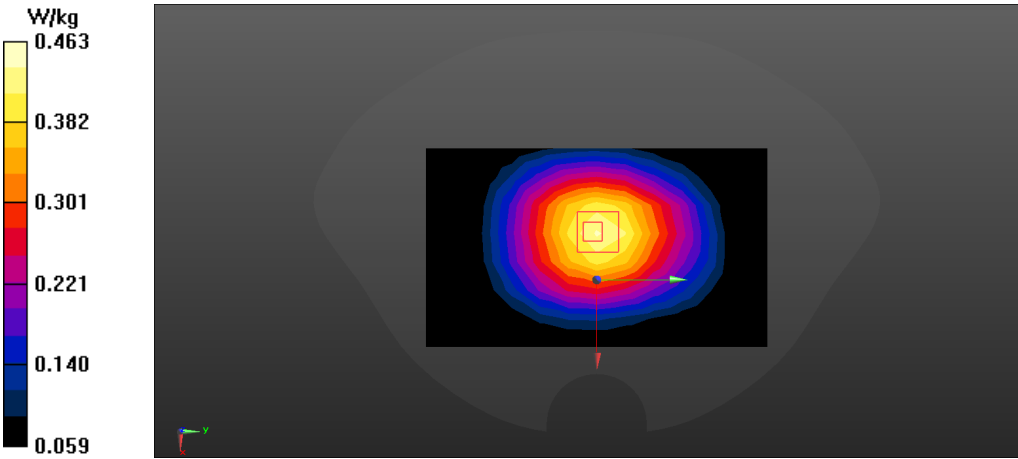
FLAT	Towards phantom
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/GPRS850 TP M 10mm M 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.469 W/kg Configuration/GPRS850 TP M 10mm M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.99 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.536 W/kg SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.301 W/kg Maximum value of SAR (measured) = 0.460 W/kg	
	

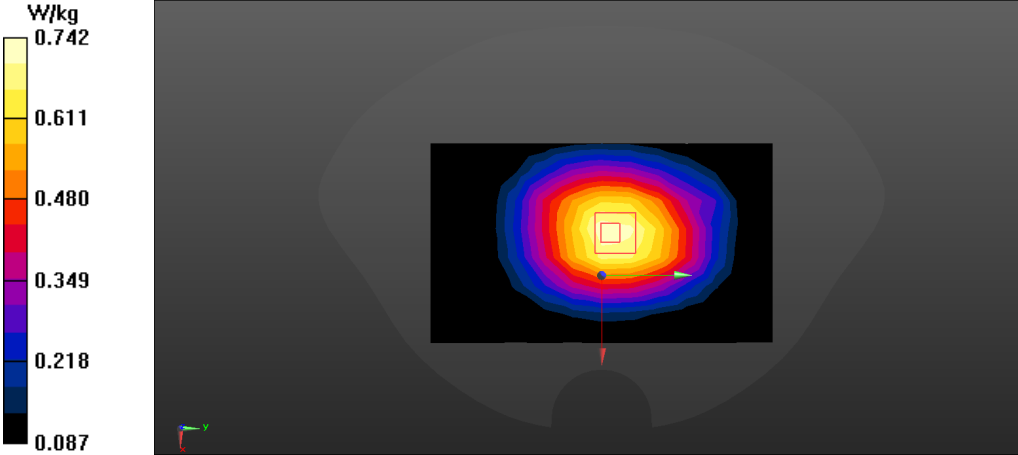
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz; Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.969$ S/m; $\epsilon_r = 54.581$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/GPRS850 TG M 10mm L/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.622 W/kg Configuration/GPRS850 TG M 10mm L/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 20.46 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.744 W/kg SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.400 W/kg Maximum value of SAR (measured) = 0.618 W/kg  W/kg 0.618 0.508 0.399 0.289 0.179 0.070	

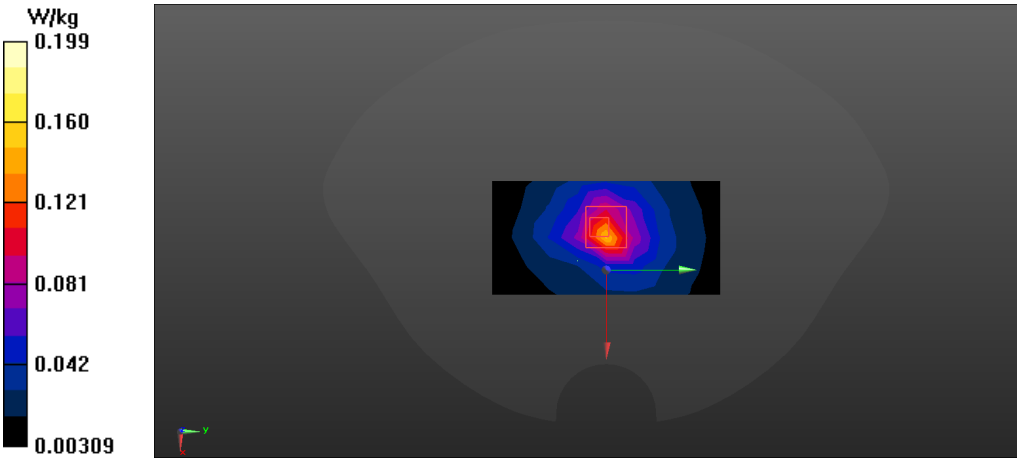
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/GPRS850 TG M 10mm M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.750 W/kg Configuration/GPRS850 TG M 10mm M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 28.46 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.915 W/kg SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.491 W/kg Maximum value of SAR (measured) = 0.765 W/kg 	

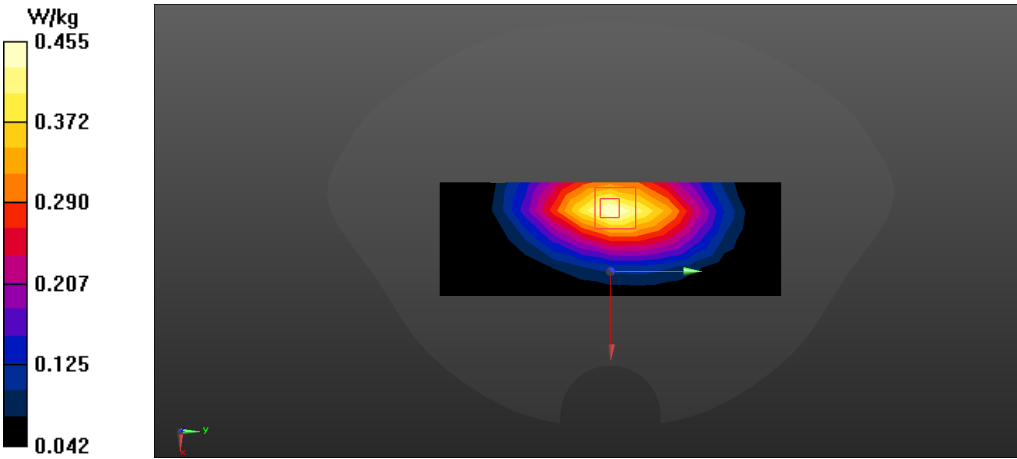
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 848.6 MHz; Medium parameters used (interpolated): $f = 848.6$ MHz; $\sigma = 0.982$ S/m; $\epsilon_r = 54.49$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/GPRS850 TG M 10mm H/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.649 W/kg Configuration/GPRS850 TG M 10mm H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.79 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 1.31 W/kg SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.432 W/kg Maximum value of SAR (measured) = 0.674 W/kg  W/kg 0.674 0.549 0.425 0.300 0.175 0.050	

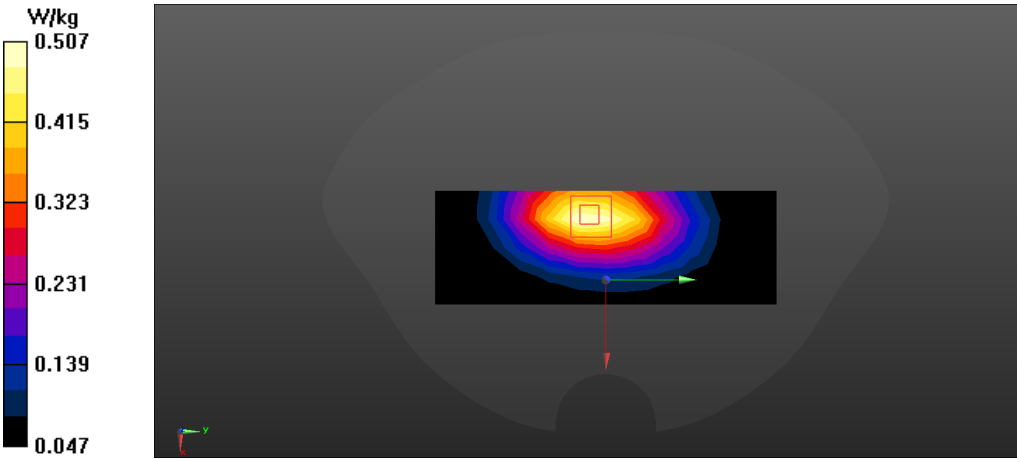
GSM (850MHz with EGPRS/Flat)

FLAT	Towards phantom
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/EGPRS850 TP M 10mm M 2 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.441 W/kg Configuration/EGPRS850 TP M 10mm M 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.80 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.550 W/kg SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.301 W/kg Maximum value of SAR (measured) = 0.463 W/kg	
	

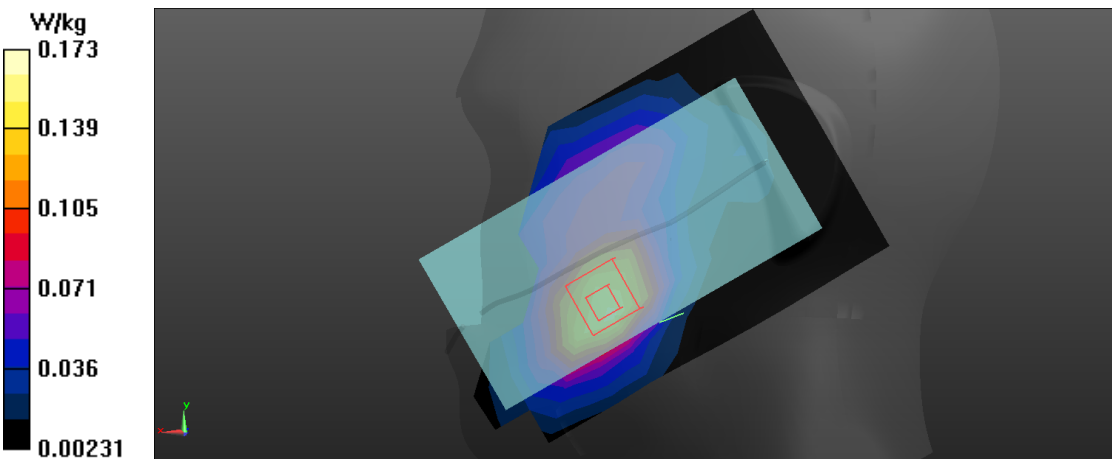
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration/EGPRS850 TG M 10mm M 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.739 W/kg Configuration/EGPRS850 TG M 10mm M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 27.94 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.905 W/kg SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.482 W/kg Maximum value of SAR (measured) = 0.742 W/kg 	

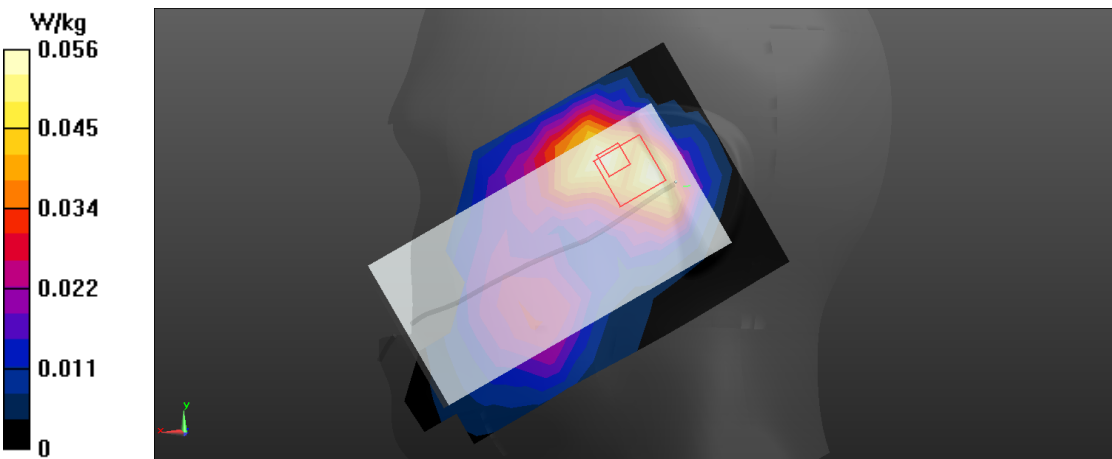
FLAT	EDGE2
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) HOT/GPRS850 M edge 2/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.150 W/kg HOT/GPRS850 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.87 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.495 W/kg SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.064 W/kg Maximum value of SAR (measured) = 0.199 W/kg 	

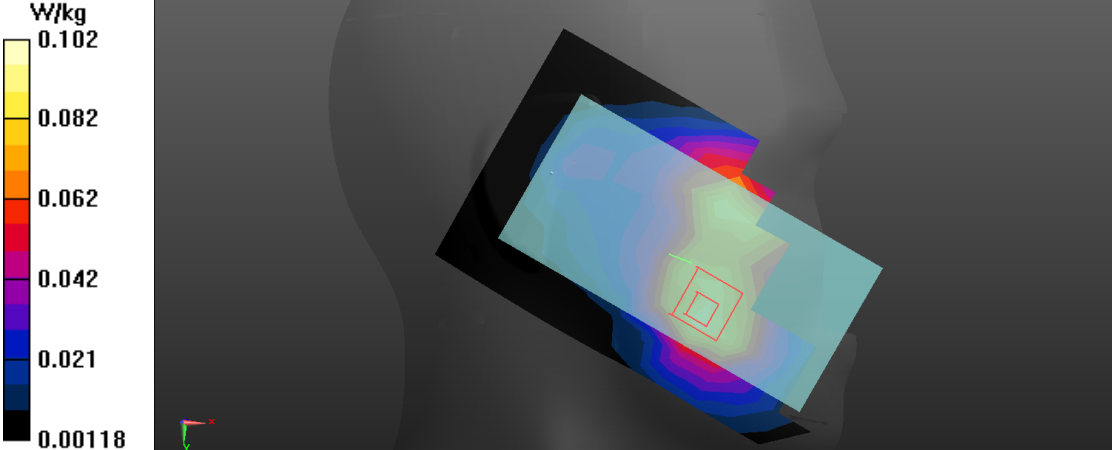
FLAT	EDGE3
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) HOT/GPRS850 M edge 3 M/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.468 W/kg HOT/GPRS850 M edge 3 M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.23 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.605 W/kg SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.255 W/kg Maximum value of SAR (measured) = 0.455 W/kg	
	

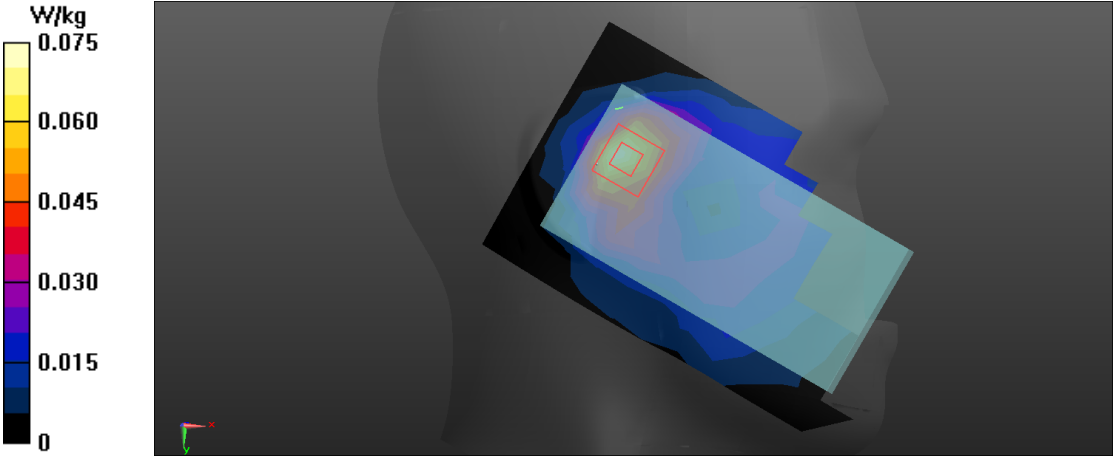
FLAT	EDGE4
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 10/23/2017 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) HOT/GPRS850 M edge 4 M 2/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.508 W/kg HOT/GPRS850 M edge 4 M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 18.44 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 0.640 W/kg SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.294 W/kg Maximum value of SAR (measured) = 0.507 W/kg	
	

GSM (1900MHz/Head)

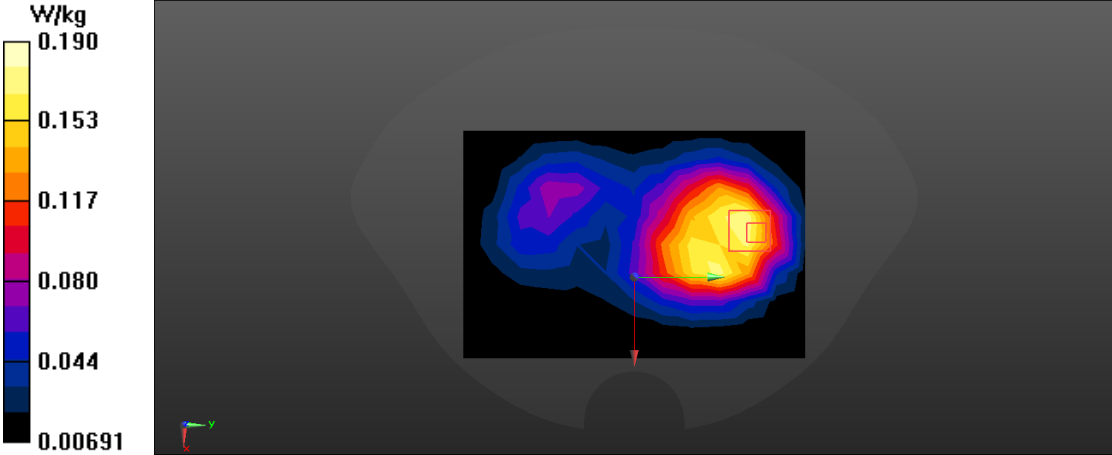
Left Side	Cheek
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL 1900/1900GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.156 W/kg Head-Section Left HSL 1900/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.908 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.230 W/kg SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.088 W/kg Maximum value of SAR (measured) = 0.173 W/kg	
	

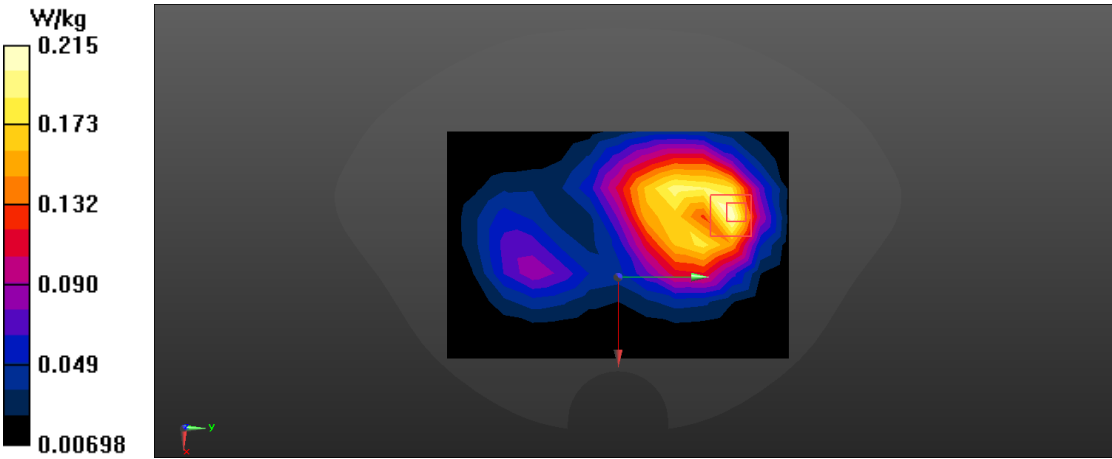
Left Side	Tilt
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL 1900/1900GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0571 W/kg Head-Section Left HSL 1900/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.634 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.120 W/kg SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.028 W/kg Maximum value of SAR (measured) = 0.0561 W/kg  W/kg 0.056 0.045 0.034 0.022 0.011 0	

Right Side	Cheek
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 1900/1900GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0945 W/kg Head-Section Right HSL 1900/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.880 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.131 W/kg SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.055 W/kg Maximum value of SAR (measured) = 0.102 W/kg 	

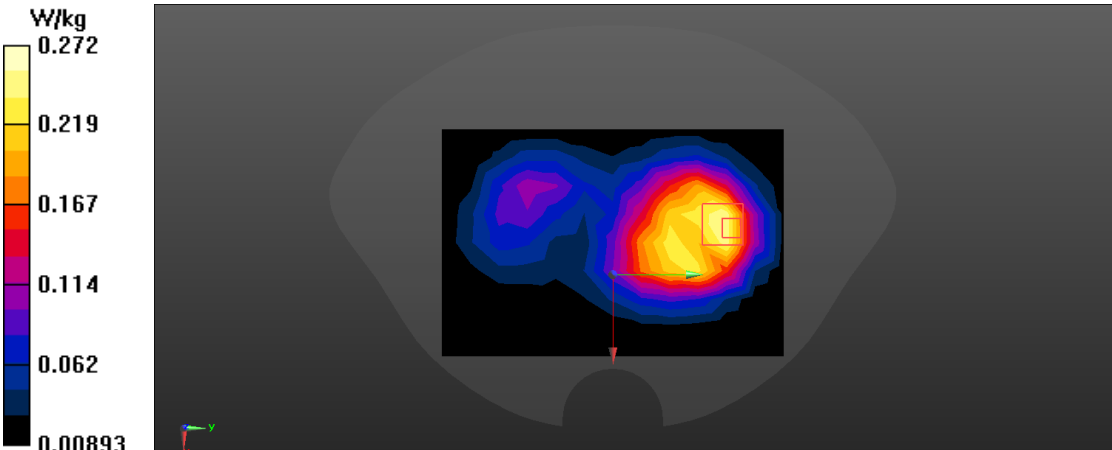
Right Side	Tilt
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 1900/1900GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0747 W/kg Head-Section Right HSL 1900/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.946 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.107 W/kg SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.034 W/kg Maximum value of SAR (measured) = 0.0765 W/kg 	

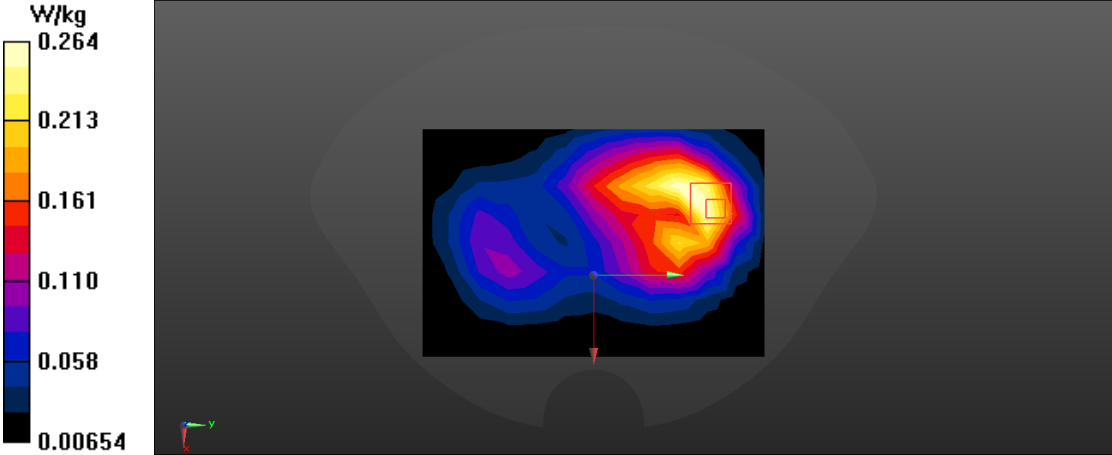
GSM with headset (1900MHz/Flat)

FLAT	Towards phantom
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 TP/GSM1900 TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.173 W/kg Flat-Section MSL GSM1900 TP/GSM1900 TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.267 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.263 W/kg SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.092 W/kg. Maximum value of SAR (measured) = 0.190 W/kg	
	

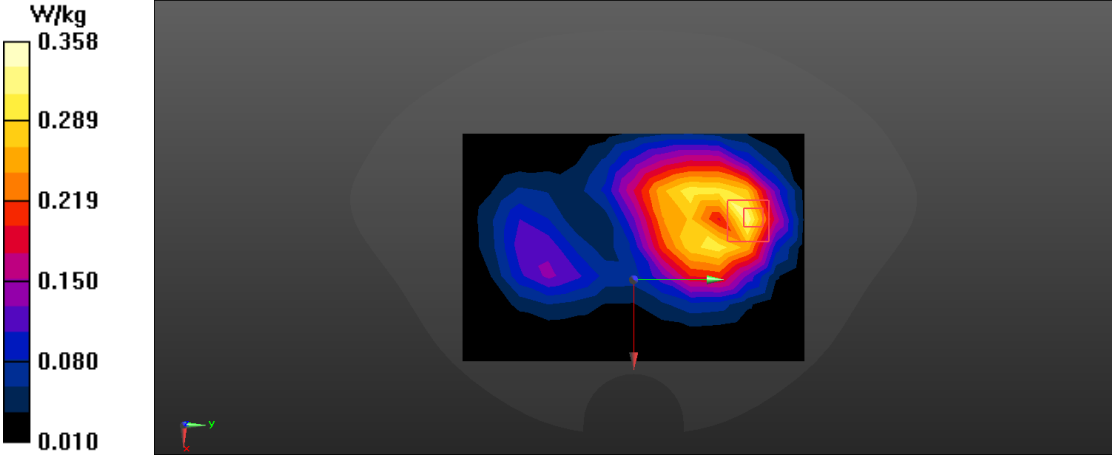
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880 \text{ MHz}$; $\sigma = 1.538 \text{ S/m}$; $\epsilon_r = 52.717$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 TG/GSM1900 TG M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.214 W/kg Flat-Section MSL GSM1900 TG/GSM1900 TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.289 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.301 W/kg SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.100 W/kg Maximum value of SAR (measured) = 0.215 W/kg	
	

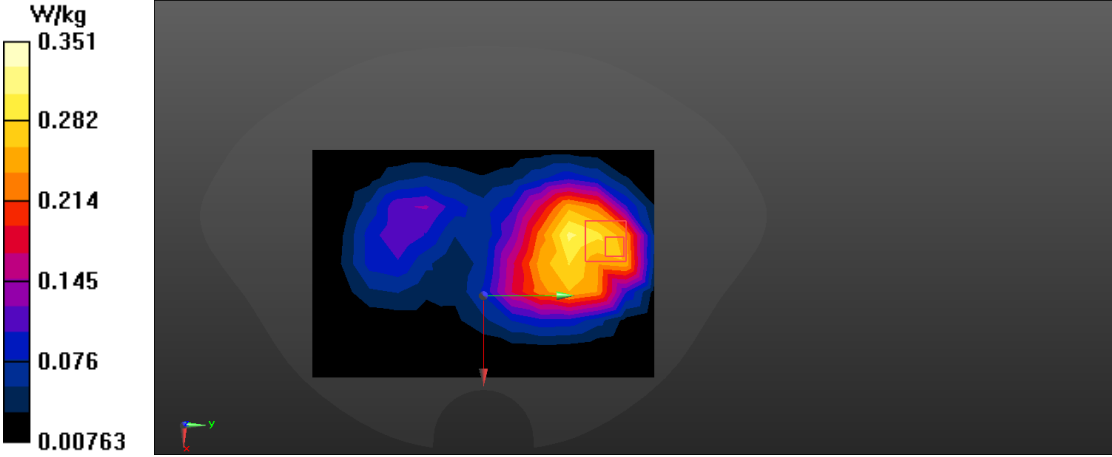
GSM (1900MHz with GPRS/Flat)

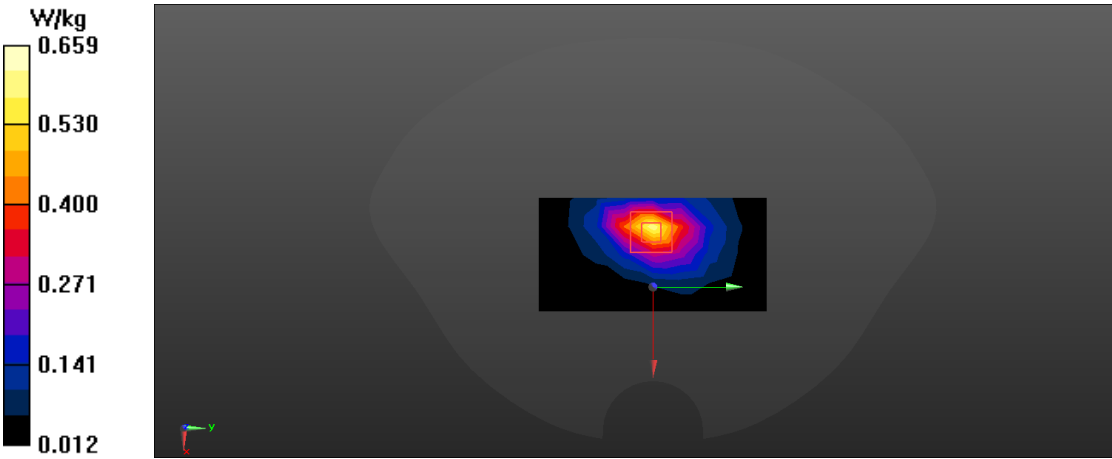
FLAT	Towards phantom
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 TP/GPRS1900 TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.248 W/kg Flat-Section MSL GSM1900 TP/GPRS1900 TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.804 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.373 W/kg SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.129 W/kg Maximum value of SAR (measured) = 0.272 W/kg	
	

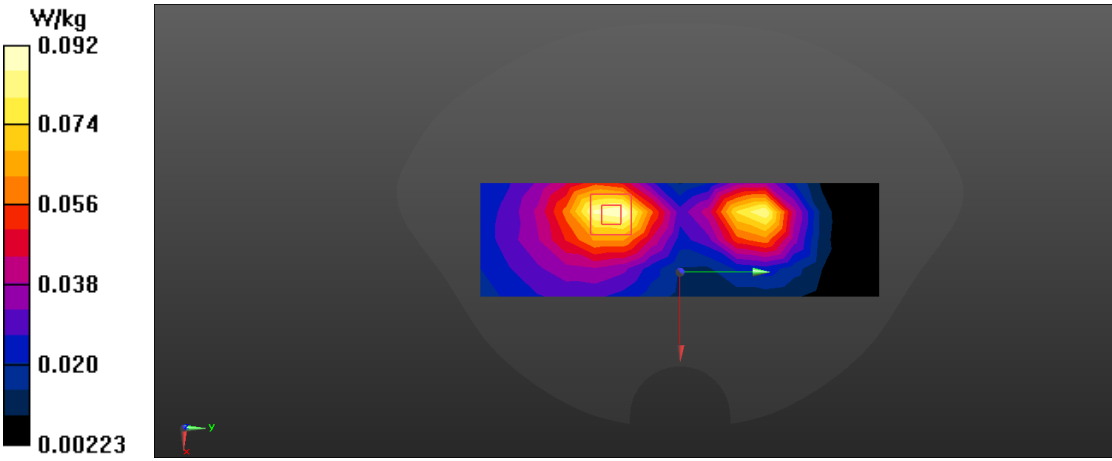
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 TG/GPRS1900 TG M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.261 W/kg Flat-Section MSL GSM1900 TG/GPRS1900 TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.061 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.389 W/kg SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.120 W/kg Maximum value of SAR (measured) = 0.264 W/kg	
	

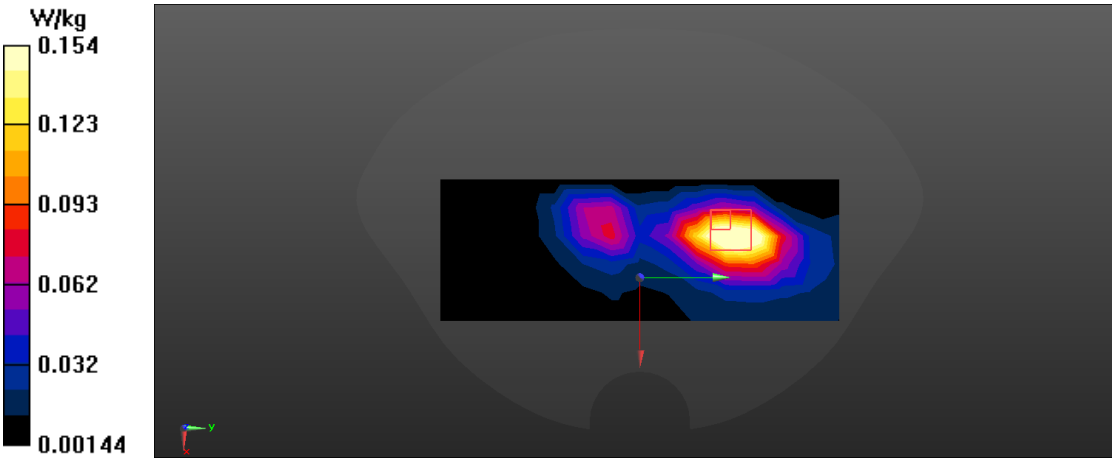
GSM (1900MHz with EGPRS/Flat)

FLAT	Towards phantom
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 TP/EGPRS1900 TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.331 W/kg Flat-Section MSL GSM1900 TP/EGPRS1900 TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.733 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.506 W/kg SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.161 W/kg Maximum value of SAR (measured) = 0.358 W/kg	
	

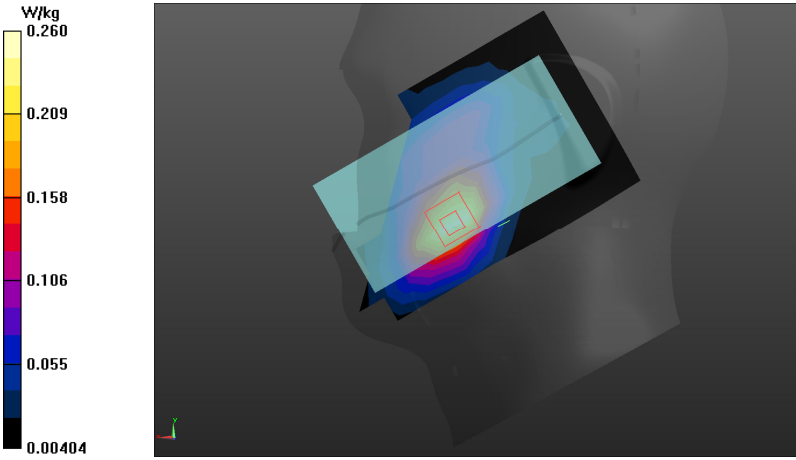
FLAT	Towards ground
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880 \text{ MHz}$; $\sigma = 1.538 \text{ S/m}$; $\epsilon_r = 52.717$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 TG/EGPRS1900 TG M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.312 W/kg Flat-Section MSL GSM1900 TG/EGPRS1900 TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.581 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.483 W/kg SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.162 W/kg Maximum value of SAR (measured) = 0.351 W/kg	
	

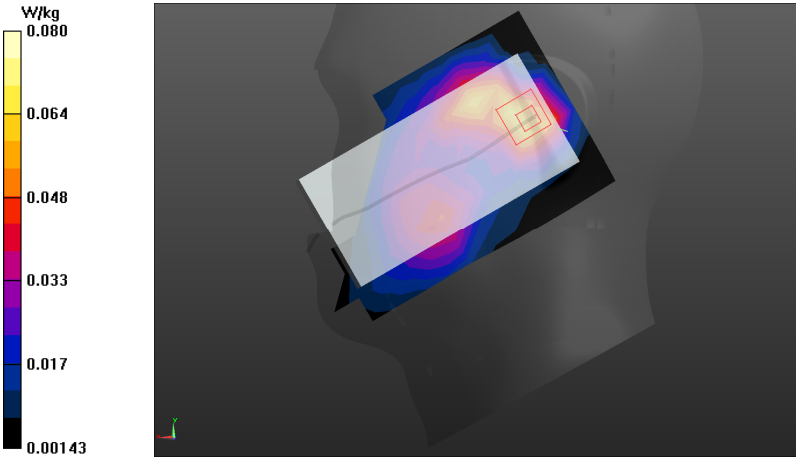
FLAT	EDGE2
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880 \text{ MHz}$; $\sigma = 1.538 \text{ S/m}$; $\epsilon_r = 52.717$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 HOT/GSM1900 M edge 2/Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.615 W/kg Flat-Section MSL GSM1900 HOT/GSM1900 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 14.02 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.916 W/kg SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.269 W/kg Maximum value of SAR (measured) = 0.659 W/kg	
	

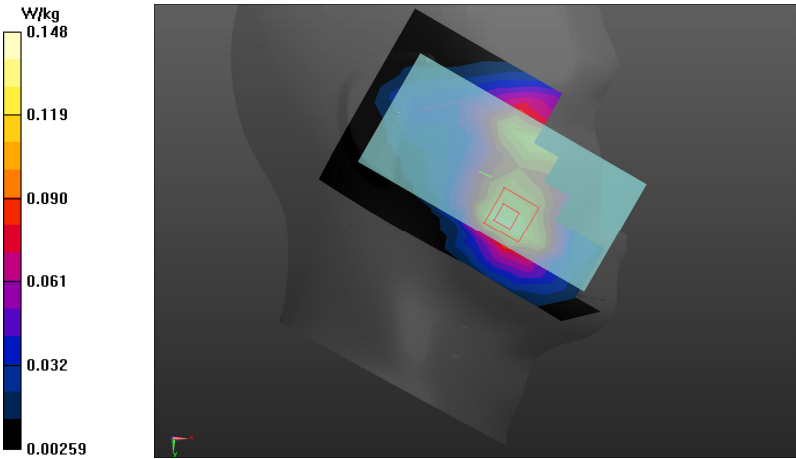
FLAT	EDGE3
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880 \text{ MHz}$; $\sigma = 1.538 \text{ S/m}$; $\epsilon_r = 52.717$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 HOT/GSM1900 M edge 3/Area Scan (5x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0926 W/kg Flat-Section MSL GSM1900 HOT/GSM1900 M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.251 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.126 W/kg SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.045 W/kg Maximum value of SAR (measured) = 0.0924 W/kg 	

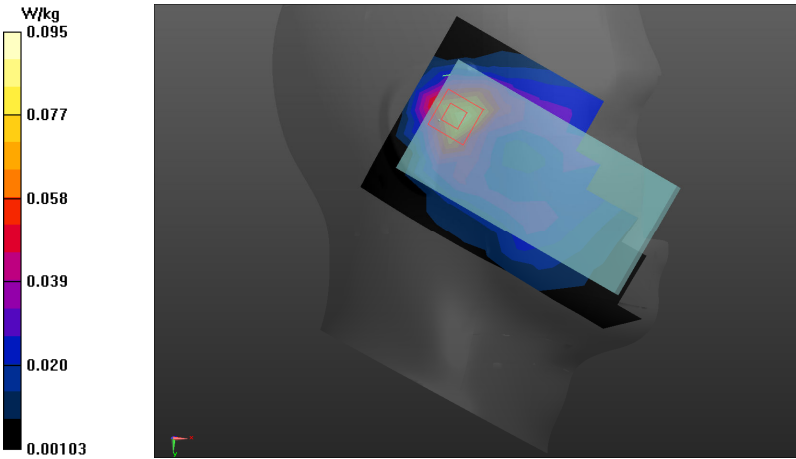
FLAT	EDGE4
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL GSM1900 HOT/GSM1900 M edge 4/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.190 W/kg Flat-Section MSL GSM1900 HOT/GSM1900 M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.457 V/m; Power Drift = -0.18 dB Peak SAR (extrapolated) = 0.222 W/kg SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.056 W/kg Maximum value of SAR (measured) = 0.154 W/kg 	

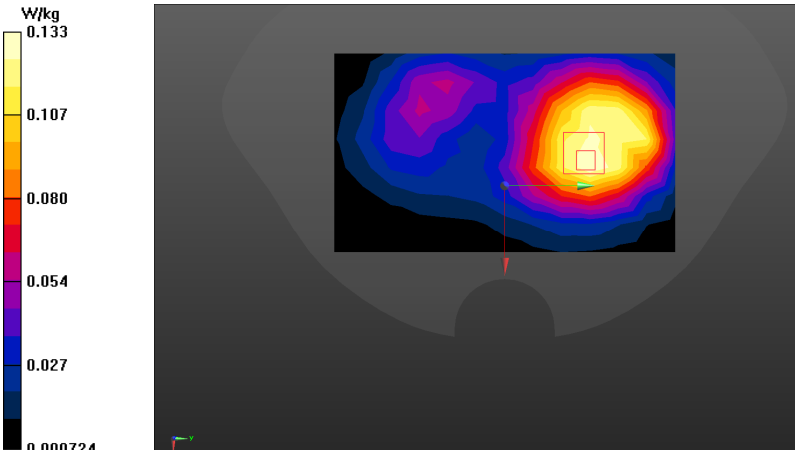
WCDMA Band 2

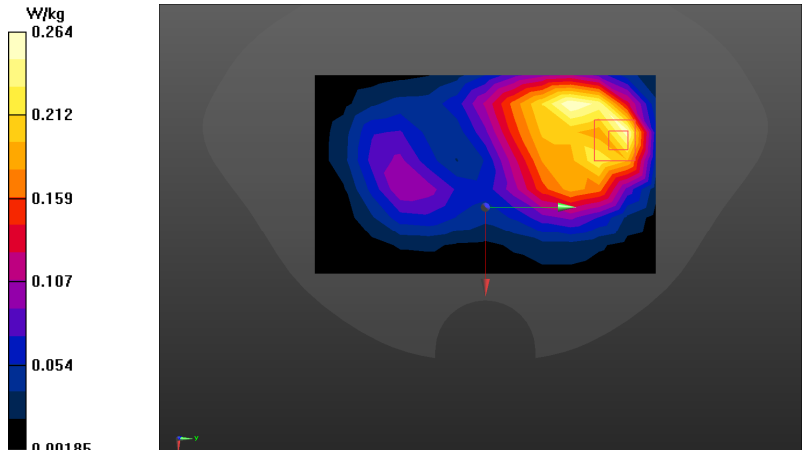
Left Side	Cheek
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.253 W/kg Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.419 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.358 W/kg SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.134 W/kg Maximum value of SAR (measured) = 0.260 W/kg 	

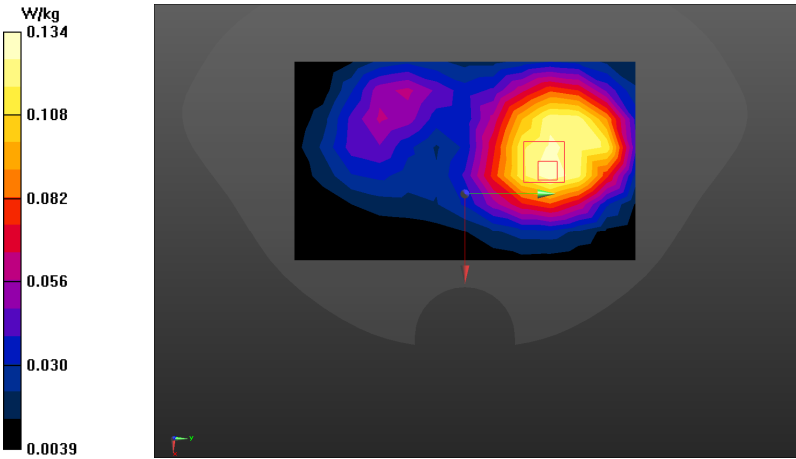
Left Side	Tilt
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0672 W/kg Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.825 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.109 W/kg SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.037 W/kg Maximum value of SAR (measured) = 0.0798 W/kg 	

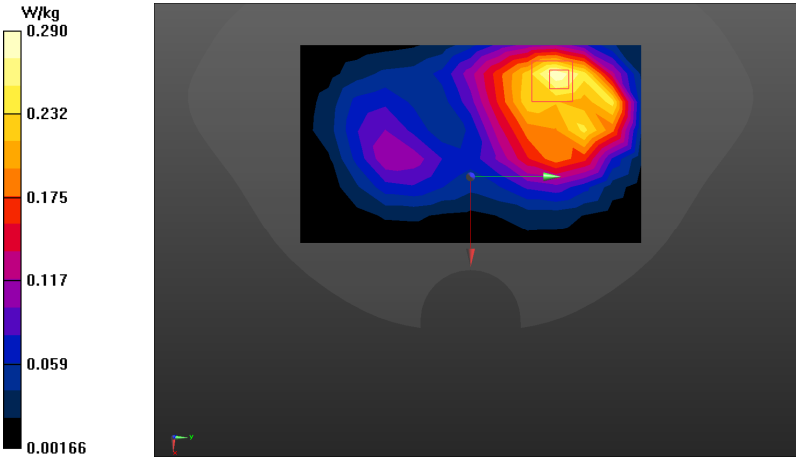
Right Side	Cheek
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BAND2 Right Head/WCDMA BAND2 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.134 W/kg Head-Section HSL WCDMA BAND2 Right Head/WCDMA BAND2 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.860 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.194 W/kg SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.078 W/kg Maximum value of SAR (measured) = 0.148 W/kg 	

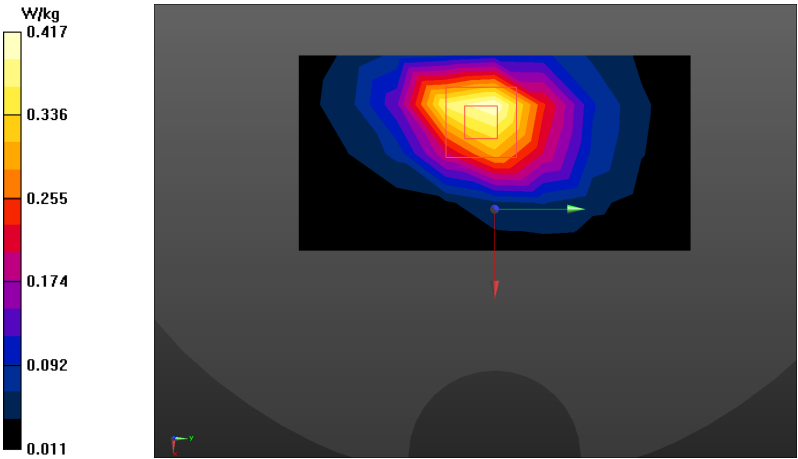
Right Side	Tilt
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BAND2 Right Head/WCDMA BNAD2 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0858 W/kg Head-Section HSL WCDMA BAND2 Right Head/WCDMA BNAD2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 7.046 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.133 W/kg SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.042 W/kg Maximum value of SAR (measured) = 0.0954 W/kg 	

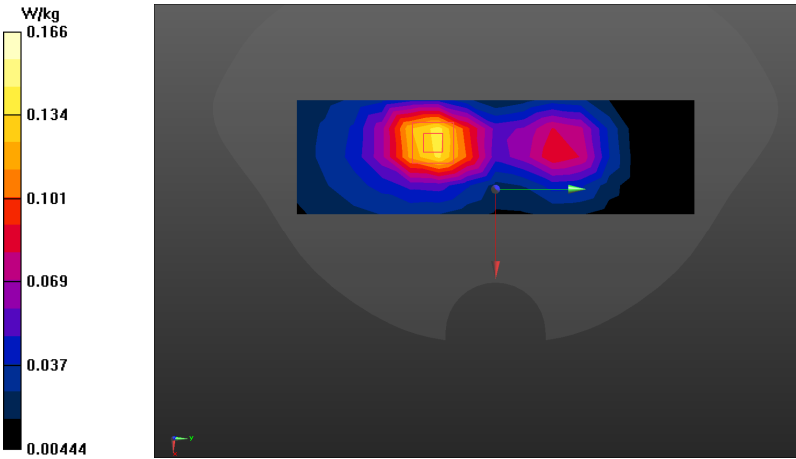
FLAT(VIOCE)	Towards phantom
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.133 W/kg Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.013 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.183 W/kg SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.070 W/kg Maximum value of SAR (measured) = 0.132 W/kg 	

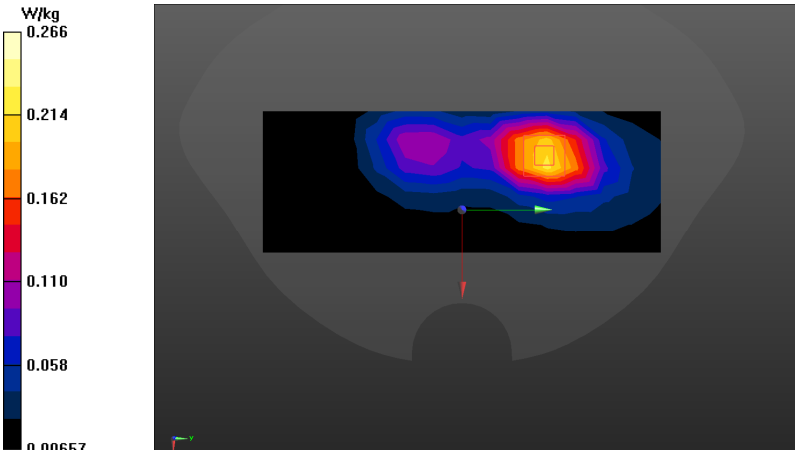
FLAT(VIOCE)	Towards ground
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.264 W/kg Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.473 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.403 W/kg SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.132 W/kg Maximum value of SAR (measured) = 0.286 W/kg 	

FLAT(DATA)	Towards phantom
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.132 W/kg Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.996 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.186 W/kg SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.071 W/kg Maximum value of SAR (measured) = 0.134 W/kg 	

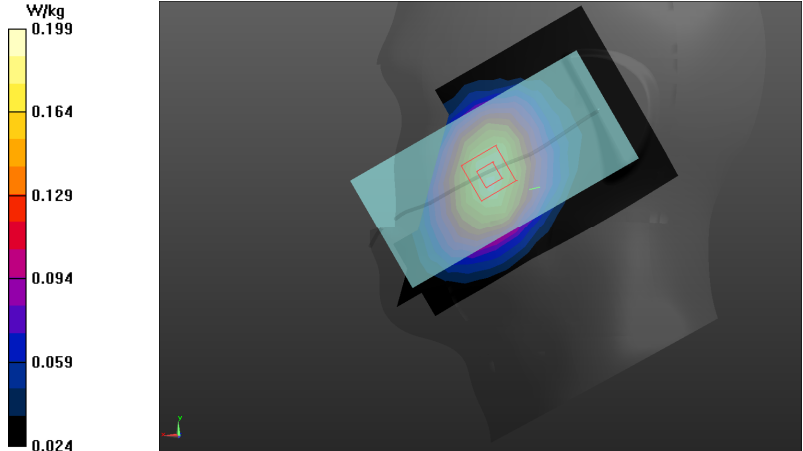
FLAT(DATA)	Towards ground
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.290 W/kg Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.564 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.426 W/kg SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.139 W/kg Maximum value of SAR (measured) = 0.298 W/kg 	

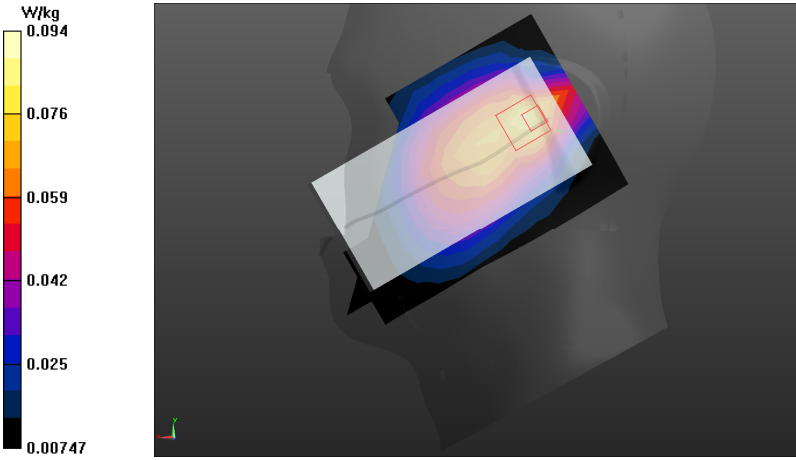
FLAT	EDGE2
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 2/Area Scan (5x9x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.417 W/kg Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 14.47 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.733 W/kg SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.222 W/kg Maximum value of SAR (measured) = 0.530 W/kg 	

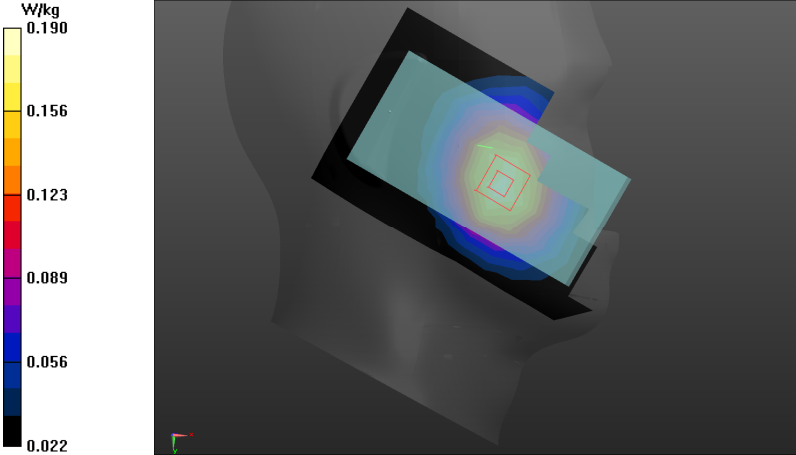
FLAT	EDGE3
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 3/Area Scan (5x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.139 W/kg Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.058 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.228 W/kg SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.080 W/kg Maximum value of SAR (measured) = 0.166 W/kg 	

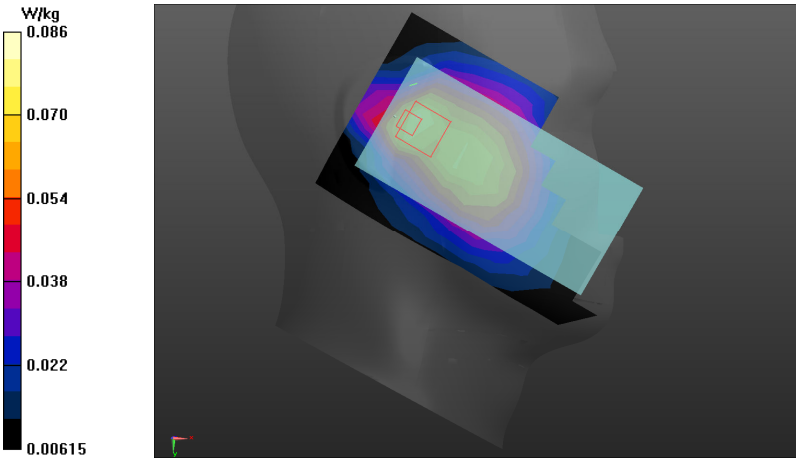
FLAT	EDGE4
Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 4/Area Scan (6x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.221 W/kg Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.175 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.369 W/kg SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.124 W/kg Maximum value of SAR (measured) = 0.266 W/kg 	

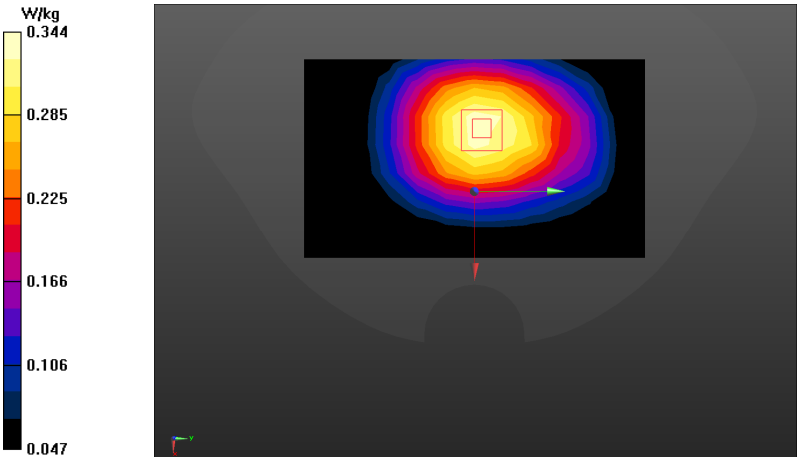
WCDMA Band 5

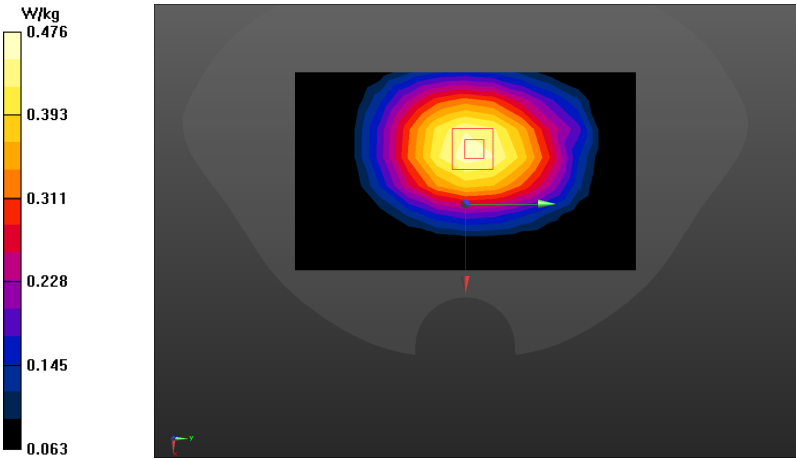
Left Side	Cheek
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.193 W/kg Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.234 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.227 W/kg SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.136 W/kg Maximum value of SAR (measured) = 0.199 W/kg 	

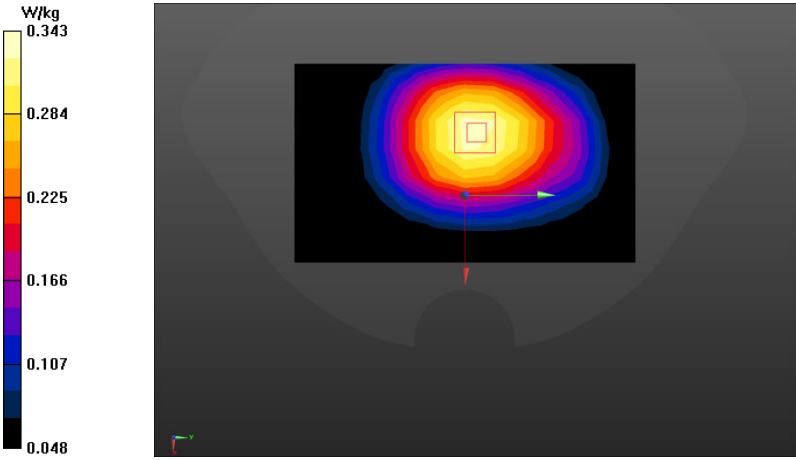
Left Side	Tilt
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 41.114$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0842 W/kg Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.071 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.129 W/kg SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.051 W/kg Maximum value of SAR (measured) = 0.0935 W/kg 	

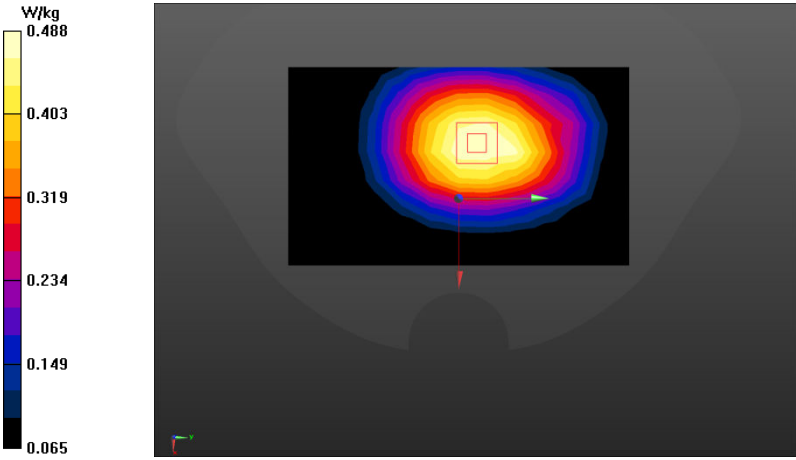
Right Side	Cheek
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BAND5 Right Head/WCDMA BNAD5 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.190 W/kg Head-Section HSL WCDMA BAND5 Right Head/WCDMA BNAD5 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 3.840 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.219 W/kg SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.130 W/kg	
	

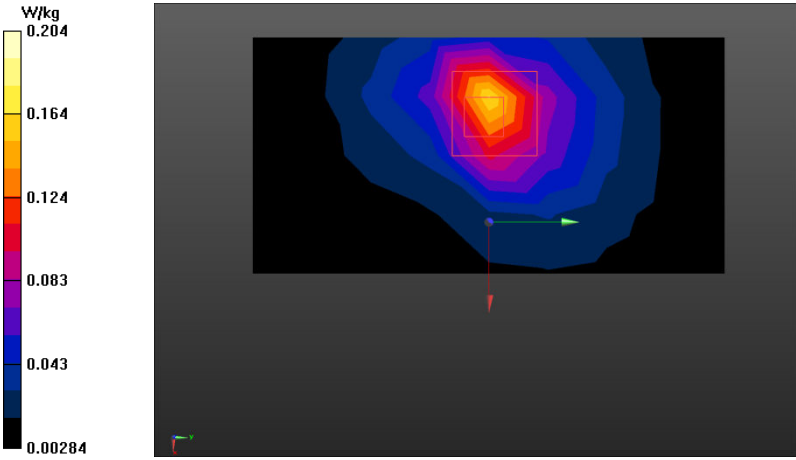
Right Side	Tilt
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL WCDMA BAND5 Right Head/WCDMA BAND5 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0764 W/kg Head-Section HSL WCDMA BAND5 Right Head/WCDMA BAND5 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 8.507 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.119 W/kg SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.048 W/kg Maximum value of SAR (measured) = 0.0857 W/kg 	

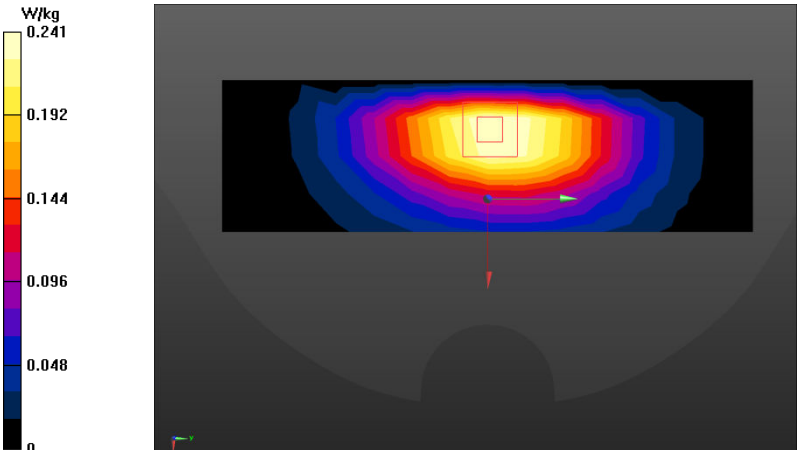
FLAT(VIOCE)	Towards phantom
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.336 W/kg Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 18.38 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.400 W/kg SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.233 W/kg Maximum value of SAR (measured) = 0.344 W/kg 	

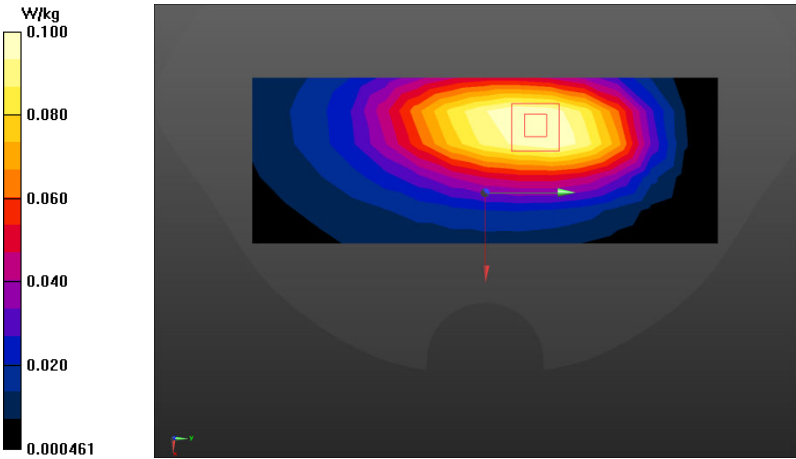
FLAT(VIOCE)	Towards ground
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.466 W/kg Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 22.02 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.554 W/kg SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.319 W/kg Maximum value of SAR (measured) = 0.476 W/kg 	

FLAT(DATA)	Towards phantom
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 56.196$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.331 W/kg Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 18.24 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.398 W/kg SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.233 W/kg Maximum value of SAR (measured) = 0.343 W/kg 	

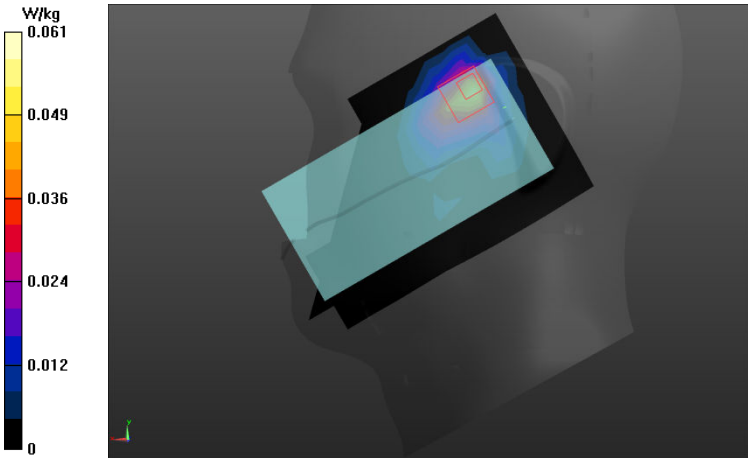
FLAT(DATA)	Towards ground
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.483 W/kg Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 21.98 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.565 W/kg SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.331 W/kg Maximum value of SAR (measured) = 0.488 W/kg 	

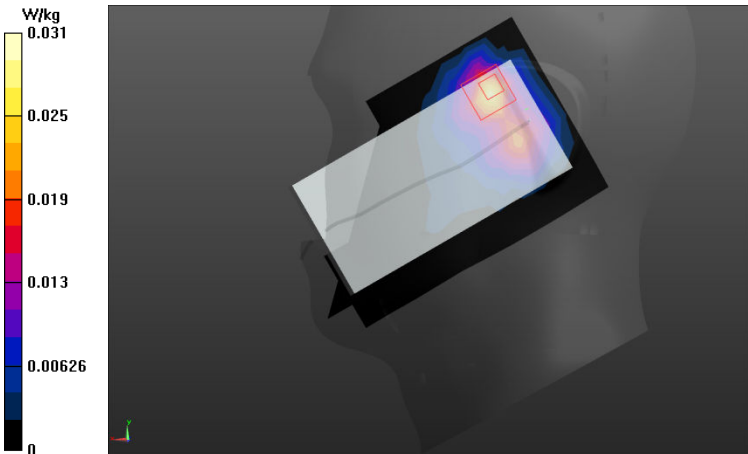
FLAT	EDGE2
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 56.196$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 2/Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.166 W/kg Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.653 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.514 W/kg SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.061 W/kg Maximum value of SAR (measured) = 0.204 W/kg 	

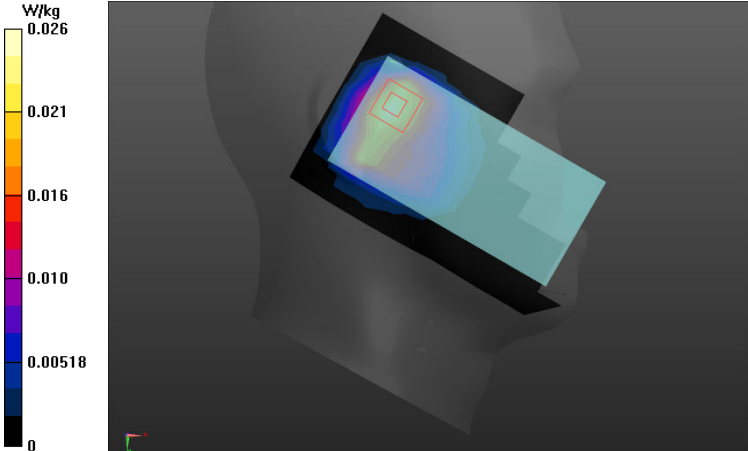
FLAT	EDGE3
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 3/Area Scan (5x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.241 W/kg Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 15.83 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.148 W/kg SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.070 W/kg Maximum value of SAR (measured) = 0.119 W/kg 	

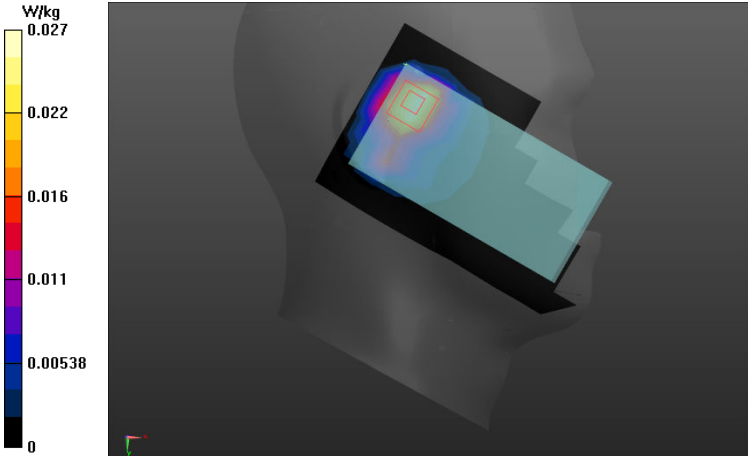
FLAT	EDGE4
Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 4/Area Scan (6x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0998 W/kg Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 9.075 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.166 W/kg SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.066 W/kg Maximum value of SAR (measured) = 0.122 W/kg 	

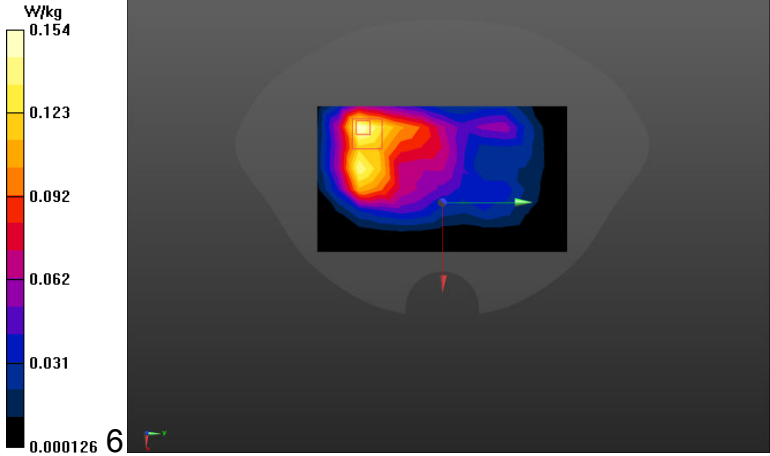
WLAN 2.4GHz

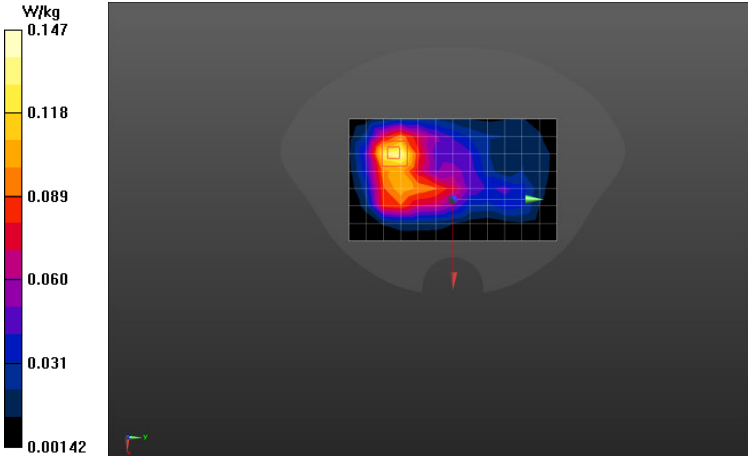
Left Side	Cheek
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL wifi Left Head/wifi HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.0531 W/kg Head-Section HSL wifi Left Head/wifi HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.388 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.111 W/kg SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.020 W/kg Maximum value of SAR (measured) = 0.0607 W/kg	
	

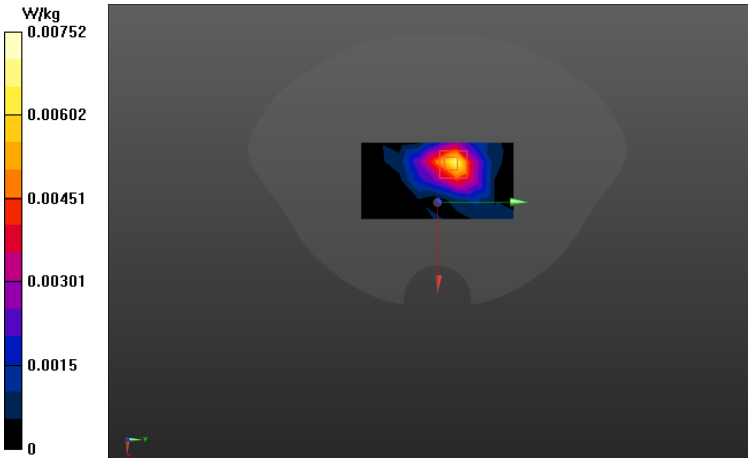
Left Side	Tilt
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL wifi Left Head/wifi HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.0292 W/kg Head-Section HSL wifi Left Head/wifi HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.631 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.0550 W/kg SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.00921 W/kg Maximum value of SAR (measured) = 0.0313 W/kg 	

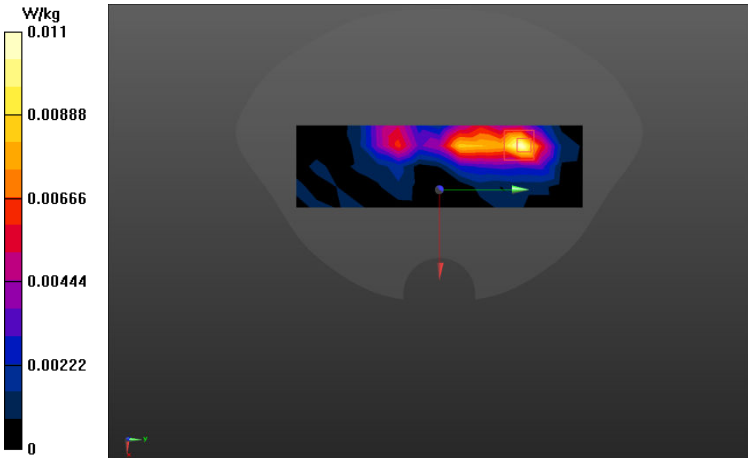
Right Side	Cheek
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL wifi Right Head/wifi HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.0259 W/kg Head-Section HSL wifi Right Head/wifi HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 2.982 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.0460 W/kg SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.012 W/kg Maximum value of SAR (measured) = 0.0296 W/kg 	

Right Side	Tilt
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Head-Section HSL wifi Right Head/wifi HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.0269 W/kg Head-Section HSL wifi Right Head/wifi HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.003 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.0570 W/kg SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.014 W/kg Maximum value of SAR (measured) = 0.0362 W/kg 	

FLAT	Towards phantom
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WIFI2.4G TG&TP/WIFI TP M 10mm/Area Scan (8x13x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.154 W/kg Flat-Section MSL WIFI2.4G TG&TP/WIFI TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.529 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.245 W/kg SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.067 W/kg	
	

FLAT	Towards ground
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WIFI2.4G TG&TP/WIFI TG M 10mm/Area Scan (8x13x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.139 W/kg Flat-Section MSL WIFI2.4G TG&TP/WIFI TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.963 V/m; Power Drift = -0.19 dB Peak SAR (extrapolated) = 0.217 W/kg SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.068 W/kg Maximum value of SAR (measured) = 0.147 W/kg 	

FLAT	EDGE1
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WIFI HOT/WIFI M edge 1/Area Scan (5x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.00684 W/kg Flat-Section MSL WIFI HOT/WIFI M edge 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.175 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.0110 W/kg SAR(1 g) = 0.00559 W/kg; SAR(10 g) = 0.00241 W/kg Maximum value of SAR (measured) = 0.00752 W/kg  The figure displays SAR measurement results. On the left, a vertical color scale bar indicates SAR values in W/kg, ranging from 0 (dark blue) to 0.00752 (yellow). The scale has intermediate markers at 0.0015, 0.00301, 0.00451, and 0.00602. To the right of the scale is a large, dark gray rectangular area representing the measurement field. Within this field, there is a smaller, more detailed heatmap showing a localized area of high SAR (red/yellow) surrounded by lower values (blue/green). A small red arrow points to the center of this high-SAR region. A small inset image in the top right corner of the heatmap shows a 3D model of the phantom being tested, with a red arrow indicating the position of the measurement area.	

FLAT	EDGE3
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; - Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ - Electronics: DAE4 Sn546; Calibrated: 2017/9/15 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) Flat-Section MSL WIFI HOT/WIFI M edge 3/Area Scan (5x15x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.0112 W/kg Flat-Section MSL WIFI HOT/WIFI M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 0.8120 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.0160 W/kg SAR(1 g) = 0.00844 W/kg; SAR(10 g) = 0.00395 W/kg Maximum value of SAR (measured) = 0.0111 W/kg 	

ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS

DAE4 Sn:546

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Client: SRTC Certificate No: Z17-97141

CALIBRATION CERTIFICATE

Object: DAE4 - SN: 546

Calibration Procedure(s): FF-Z11-002-01
Calibration Procedure for the Data Acquisition Electronics (DAEx)

Calibration date: September 15, 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±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date/(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	27-Jun-17 (CTTL, No J17X05859)	June-18

Calibrated by: Yu Zongying SAR Test Engineer Signature: [Signature]

Reviewed by: Lin Hao SAR Test Engineer Signature: [Signature]

Approved by: Qi Dianyuan SAR Project Leader Signature: [Signature]

Issued: September 18, 2017

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Glossary:
DAE: data acquisition electronics
Connector angle: information used in DASY 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 DASY 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 measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

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DC Voltage Measurement
A/D Converter Resolution nominal
High Range: 1LSB = 6.1μV full range = -100...+300 mV
Low Range: 1LSB = 61nV full range = -1...+3mV
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	405.337 ± 0.15% (k=2)	404.085 ± 0.15% (k=2)	404.215 ± 0.15% (k=2)
Low Range	3.98726 ± 0.7% (k=2)	3.95731 ± 0.7% (k=2)	3.97839 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	236.5° ± 1°
---	-------------

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ES3DV3 Sn:3127



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

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth (mm) ^g	Unc. (k=2)
750	41.9	0.89	6.26	6.26	6.26	0.60	1.20	±12.1%
900	41.5	0.97	6.15	6.15	6.15	0.37	1.62	±12.1%
1810	40.0	1.40	5.06	5.06	5.06	0.67	1.23	±12.1%
2000	40.0	1.40	4.88	4.88	4.88	0.67	1.23	±12.1%
2300	39.5	1.67	4.71	4.71	4.71	0.90	1.06	±12.1%
2450	39.2	1.80	4.58	4.58	4.58	0.90	1.10	±12.1%
2600	39.0	1.96	4.32	4.32	4.32	0.90	1.09	±12.1%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of 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.

^f At frequency below 3 GHz, the validity of tissue parameters (ε and σ) 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 (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^g 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 the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz] ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth (mm) ^g	Unc. (k=2)
750	55.5	0.96	6.18	6.18	6.18	0.45	1.45	±12.1%
900	55.0	1.05	6.06	6.06	6.06	0.46	1.48	±12.1%
1810	53.3	1.52	4.83	4.83	4.83	0.65	1.29	±12.1%
2000	53.3	1.52	4.69	4.69	4.69	0.44	1.69	±12.1%
2300	52.9	1.91	4.43	4.43	4.43	0.90	1.15	±12.1%
2450	52.7	1.95	4.28	4.28	4.28	0.72	1.34	±12.1%
2600	52.5	2.16	4.07	4.07	4.07	0.90	1.16	±12.1%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of 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.

^f At frequency below 3 GHz, the validity of tissue parameters (ε and σ) 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 (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^g 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 the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

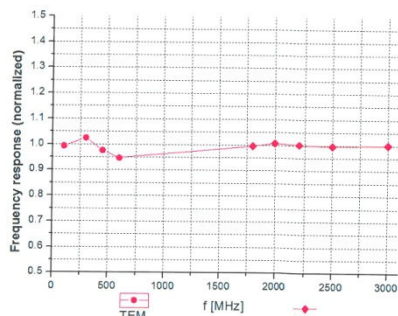
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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

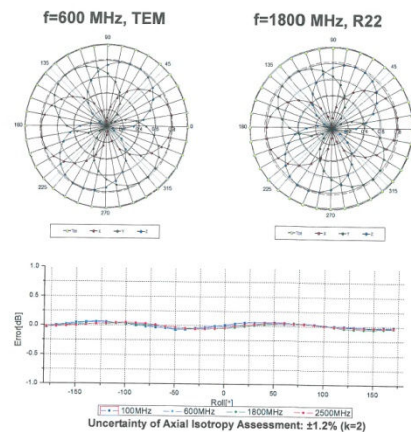
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Receiving Pattern (Φ, θ=0°)



Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)

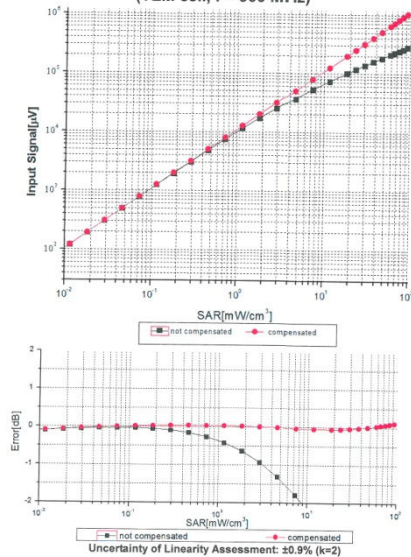
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ES3DV3 Sn:3127



Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



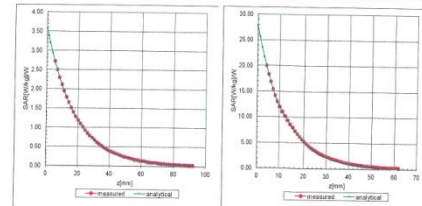
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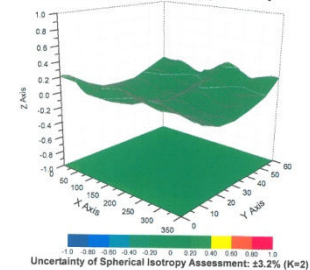


Conversion Factor Assessment

f=900 MHz, WGLS R9(H_convF) f=1810 MHz, WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Certificate No: Z17-97142

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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	165.1
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	4mm
Probe Tip to Sensor X Calibration Point	2mm
Probe Tip to Sensor Y Calibration Point	2mm
Probe Tip to Sensor Z Calibration Point	2mm
Recommended Measurement Distance from Surface	3mm

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Appendix: Modulation Calibration Parameters

UID	Communication System Name	PAR	A dB	B dB-μV	C	VR mV	Unc ¹ (k=2)
0	CW	0.00	X 0.0 Y 0.0 Z 0.0	0.0 0.0 1.0	282.3 280.9 275.1		$\pm 2.5\%$
10012	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	1.87	X 2.77 Y 2.75 Z 2.71	68.02 68.05 67.79	18.46 18.52 18.25	143.0 145.0 142.3	$\pm 1.8\%$
10100	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	5.67	X 6.13 Y 6.15 Z 6.09	66.4 66.49 66.32	18.97 19.06 18.90	141.9 144.2 140.9	$\pm 1.9\%$
10108	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	5.80	X 6.09 Y 6.10 Z 6.05	66.24 66.33 66.19	19.07 19.15 19.05	139.5 141.5 138.0	$\pm 1.9\%$
10154	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	5.75	X 5.81 Y 5.82 Z 5.79	65.85 65.92 65.89	18.93 19.01 18.97	136.1 137.8 134.7	$\pm 1.9\%$
10169	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	5.73	X 4.84 Y 4.82 Z 4.80	65.92 65.98 66.00	19.20 19.27 19.29	130.8 131.3 129.1	$\pm 1.9\%$
10175	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	5.72	X 4.88 Y 4.83 Z 4.79	66.14 66.08 66.02	19.40 19.33 19.29	131.6 130.9 129.3	$\pm 1.9\%$
10297	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	5.81	X 6.19 Y 6.13 Z 6.14	66.61 66.43 66.52	19.42 19.26 19.33	141.9 140.7 139.6	$\pm 1.9\%$

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D835V2 Sn:4d023

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Client: **SRTC** Certificate No: **Z17-97135**

CALIBRATION CERTIFICATE

Object: D835V2 - SN: 4d023

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: September 13, 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(23±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRV0	102186	02-Mar-17 (CTTL No.J17X01254)	Mar-18
Power sensor NRV-Z5	100590	02-Mar-17 (CTTL No.J17X01254)	Mar-18
Reference Probe EX3DV4	SN 7433	26-Sep-16(SPEAG No.EK3-7433_Sep16)	Sep-17
DAE4	SN 1331	19-Jan-17(CTTL-SPEAG No.Z17-97019)	Jan-18

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	13-Jan-17 (CTTL No.J17X00286)	Jan-18
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL No.J17X00286)	Jan-18

Calibrated by: Zhao Jing SAR Test Engineer Signature: [Signature]

Reviewed by: Yu Zongying SAR Test Engineer Signature: [Signature]

Approved by: Qi Dianyan SAR Project Leader Signature: [Signature]

Issued: September 16, 2017

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Glossary:

TSL: tissue simulating liquid

ConvF: sensitivity in TSL / NORMx,y,z

N/A: not applicable or not measured

Calibration is Performed According to the Following Standards:

a) 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

b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016

c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010

d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.0.1446
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 nH/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.3 ± 6 %	0.90 nH/m ± 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

	Condition	
SAR averaged over 1 cm ³ (1 g) of Head TSL		
SAR measured	250 mW input power	2.35 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	9.37 mW / g ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL		
SAR measured	250 mW input power	1.52 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	6.06 mW / g ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 nH/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.7 ± 6 %	0.96 nH/m ± 6 %
Body TSL temperature change during test	<1.0 °C	---	---

SAR result with Body TSL

	Condition	
SAR averaged over 1 cm ³ (1 g) of Body TSL		
SAR measured	250 mW input power	2.34 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	9.47 mW / g ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL		
SAR measured	250 mW input power	1.53 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	6.17 mW / g ± 18.7 % (k=2)

Certificate No: Z17-97135

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.0Ω - 2.7jΩ
Return Loss	- 30.7dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.6Ω - 3.6jΩ
Return Loss	- 25.8dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.495 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

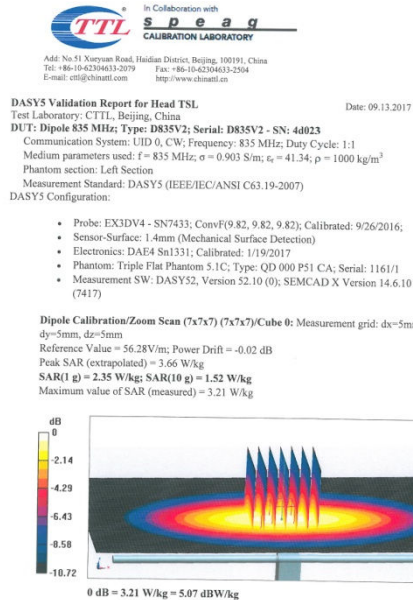
Additional EUT Data

Manufactured by	SPEAG

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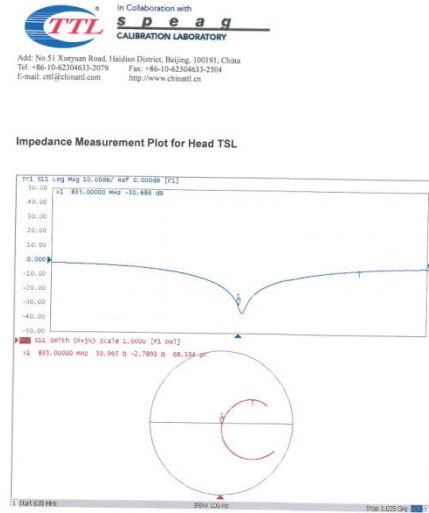
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D835V2 Sn:4d023



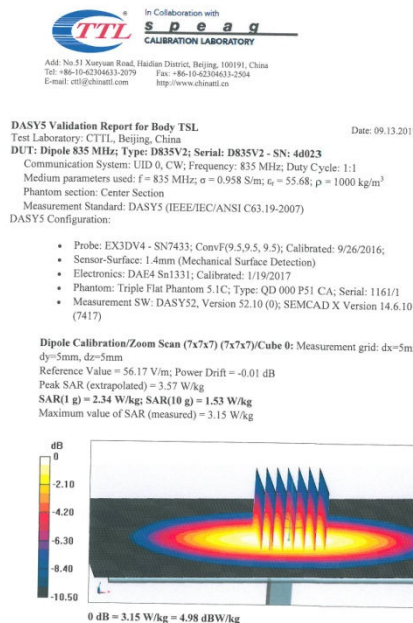
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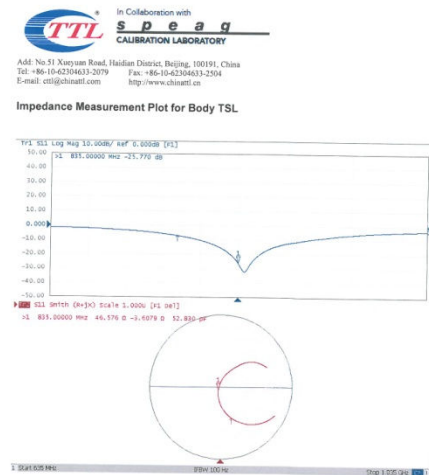
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D1800V2 Sn:2d084

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CNAS L0570

Client: **SRTC** Certificate No: **Z17-97138**

CALIBRATION CERTIFICATE

Object: D1800V2 - SN: 2d084

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: September 15, 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±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	102196	02-Mar-17 (CTTL, No.J17X01254)	Mar-18
Power sensor NRP-Z91	100596	02-Mar-17 (CTTL, No.J17X01254)	Mar-18
Reference Probe EX3DV4	SN 7433	26-Sep-16(SPEAG No EX3-7433_Sep16)	Sep-17
DAE4	SN 1331	19-Jan-17(CTTL-SPEAG No Z17-97015)	Jan-18

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	13-Jan-17 (CTTL, No.J17X00286)	Jan-18
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL, No.J17X00286)	Jan-18

Calibrated by: Name: Zhao Jing Function: SAR Test Engineer Signature: [Signature]

Reviewed by: Yu Zongying SAR Test Engineer [Signature]

Approved by: Qi Dianyuan SAR Project Leader [Signature]

Issued: September 18, 2017

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Glossary:

TSL: tissue simulating liquid
ConvF: sensitivity in TSL / NORMx,y,z
N/A: not applicable or not measured

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, "Procedure to measure the Specific Absorption Rate (SAR) For hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB855664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.0.1446
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1800 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.4 ± 6 %	1.42 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.79 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	38.9 mW / g ± 18.8 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.12 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	20.4 mW / g ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.9 ± 6 %	1.50 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	---	---

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.84 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	39.7 mW / g ± 18.8 % (k=2)

SAR averaged over 10 cm ² (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	5.18 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	20.8 mW / g ± 18.7 % (k=2)

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.3Ω - 1.55jΩ
Return Loss	- 35.4dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.0Ω - 1.32jΩ
Return Loss	- 27.1dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.316 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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D1800V2 Sn:2d084

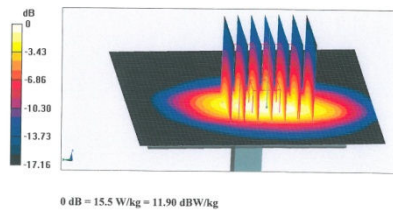
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DASY5 Validation Report for Head TSL Date: 09.15.2017
Test Laboratory: CTTI, Beijing, China
DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2d084
Communication System: UTD 0, CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 40.37$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(7.97, 7.97, 7.97); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5mm, dy=5mm, dz=5mm$
Reference Value = 93.90 W/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 9.79 W/kg; SAR(10 g) = 5.12 W/kg
Maximum value of SAR (measured) = 15.5 W/kg



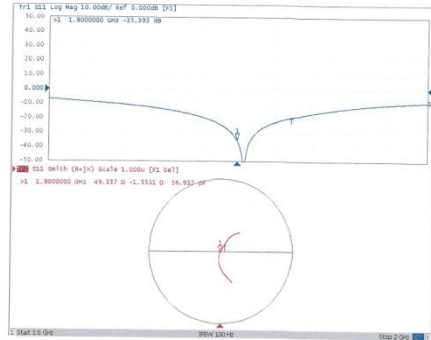
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Impedance Measurement Plot for Head TSL



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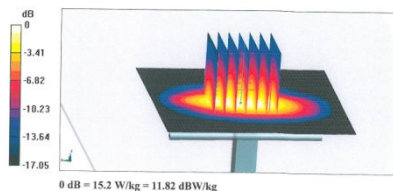
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DASY5 Validation Report for Body TSL Date: 09.14.2017
Test Laboratory: CTTI, Beijing, China
DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2d084
Communication System: UTD 0, CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 53.79$; $\rho = 1000$ kg/m³
Phantom section: Center Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(7.75, 7.75, 7.75); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7413)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5mm, dy=5mm, dz=5mm$
Reference Value = 97.57 W/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 18.0 W/kg
SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.18 W/kg
Maximum value of SAR (measured) = 15.2 W/kg



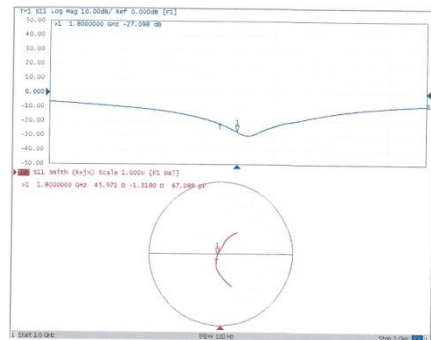
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Impedance Measurement Plot for Body TSL



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D2450V2 Sn:738

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CNAS CALIBRATION CNAS L6570

Client: **SRTC** Certificate No: **Z17-97140**

CALIBRATION CERTIFICATE

Object: D2450V2 - SN: 738

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: September 18, 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±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRVD	102196	02-Mar-17 (CTTL, No.J17X01254)	Mar-18
Power sensor NR.V.25	100596	02-Mar-17 (CTTL, No.J17X01254)	Mar-18
Reference Probe EX3DV4	SN 7433	26-Sep-16(SPEAG, No EX3-7433_Sep16)	Sep-17
D4E4	SN 1331	19-Jan-17(CTTL-SPEAG, No Z17-97015)	Jan-18
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	13-Jan-17 (CTTL, No.J17X00286)	Jan-18
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL, No.J17X00286)	Jan-18

Calibrated by: **Zhao Jing** SAR Test Engineer Signature

Reviewed by: **Yu Zongying** SAR Test Engineer

Approved by: **Qi Dianyuan** SAR Project Leader

Issued: September 21, 2017

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Glossary:
TSL tissue simulating liquid
ConvF sensitivity in TSL / NORMx.y.z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:
a) 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
b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
d) KDB85664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:
e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:
• **Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
• **Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
• **Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
• **Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
• **SAR measured:** SAR measured at the stated antenna input power.
• **SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
• **SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.0.1446
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.7 ± 6 %	1.79 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

	Condition	
SAR averaged over 1 cm ³ (1 g) of Head TSL	250 mW input power	13.1 mW / g
SAR measured	normalized to 1W	52.4 mW / g ± 18.8 % (k=2)
SAR for nominal Head TSL parameters	Condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL	250 mW input power	6.10 mW / g
SAR measured	normalized to 1W	24.4 mW / g ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.5 ± 6 %	1.96 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	---	---

SAR result with Body TSL

	Condition	
SAR averaged over 1 cm ³ (1 g) of Body TSL	250 mW input power	13.2 mW / g
SAR measured	normalized to 1W	52.3 mW / g ± 18.8 % (k=2)
SAR for nominal Body TSL parameters	Condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL	250 mW input power	6.10 mW / g
SAR measured	normalized to 1W	24.3 mW / g ± 18.7 % (k=2)

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.30 ± 5.92Ω
Return Loss	- 24.5dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.60 ± 6.39Ω
Return Loss	- 23.1dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.268 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

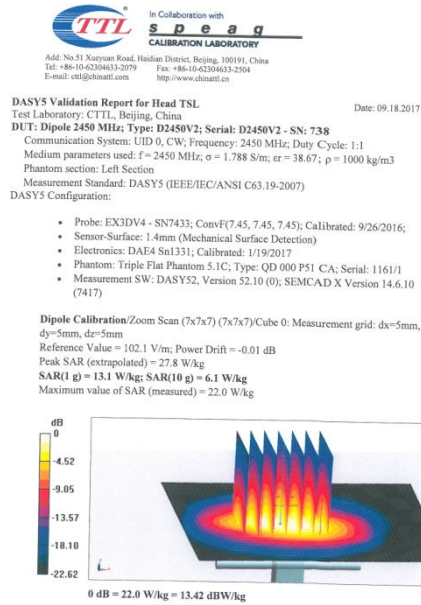
Additional EUT Data

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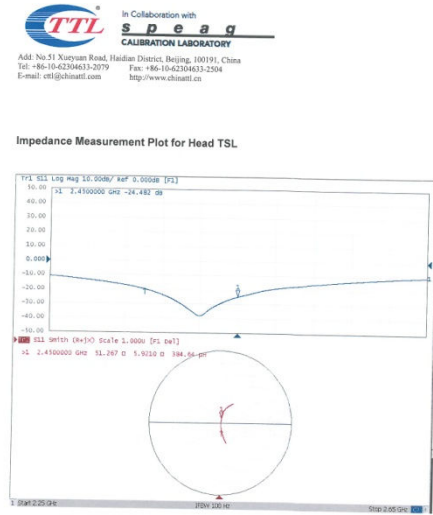
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D2450V2 Sn:738



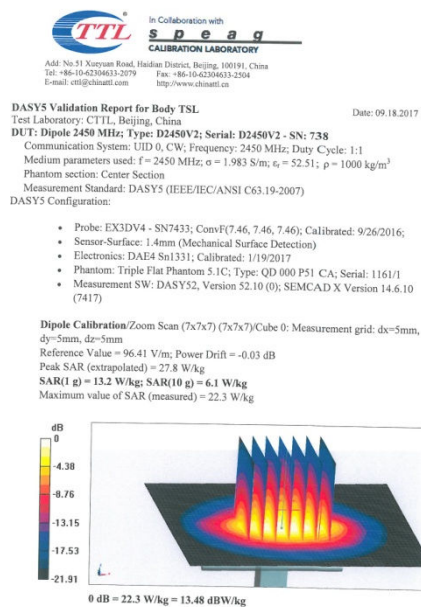
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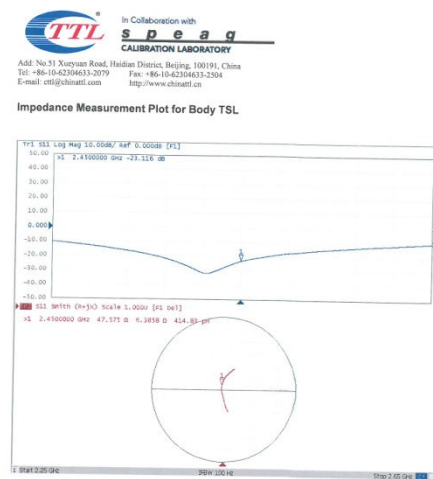
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-----End of the test report-----