

34_LTE Band 7_20M_QPSK_1RB_0Offset_Back_10mm_Ch21100

Communication System: Band 7, E-UTRA/FDD; Frequency: 2535.0

Medium: HSL. Medium parameters used: $f = 2535.0$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

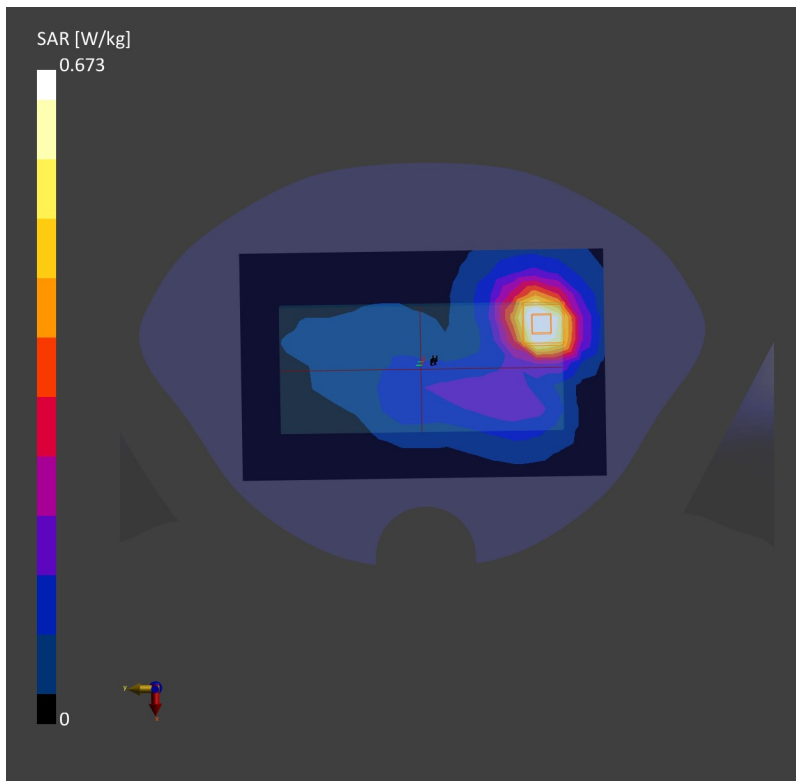
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.647 W/kg; SAR (10g) = 0.336 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = -0.03 dB

SAR (1g) = 0.673 W/kg; SAR (10g) = 0.342 W/kg;



35_LTE Band 41_HPUE_20M_QPSK_1RB_0Offset_Back_10mm_Ch40620

Communication System: Band 41, E-UTRA/TDD; Frequency: 2593.0

Medium: HSL. Medium parameters used: $f = 2593.0$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 40.6$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

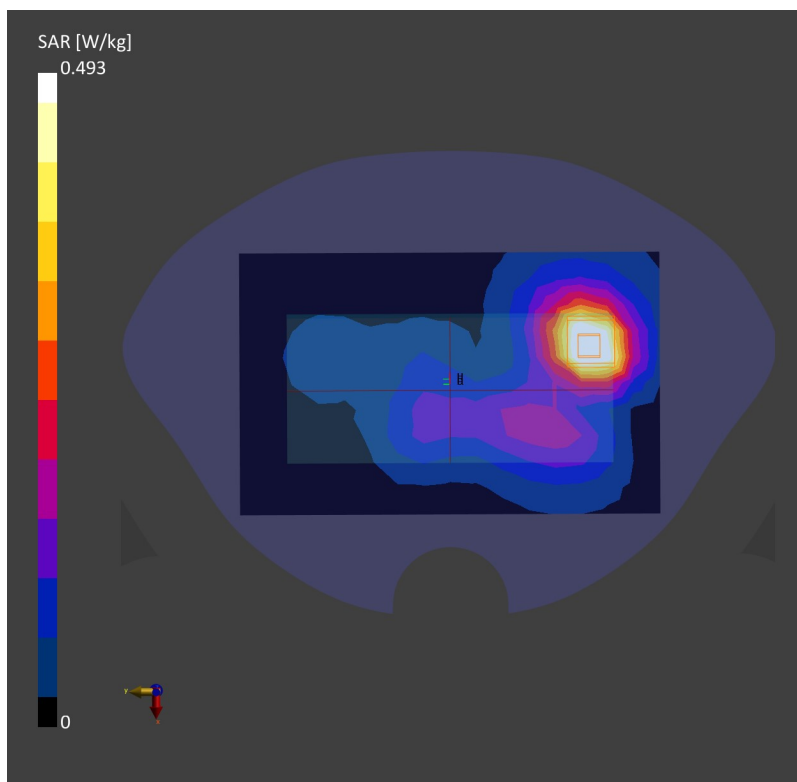
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.484 W/kg; SAR (10g) = 0.252 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = -0.13 dB

SAR (1g) = 0.493 W/kg; SAR (10g) = 0.250 W/kg;



36_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ch11

Communication System: WLAN 2.4GHz; Frequency: 2462.0

Medium: HSL. Medium parameters used: $f = 2462.0$ MHz; $\sigma = 1.88$ S/m; $\epsilon_r = 40.8$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

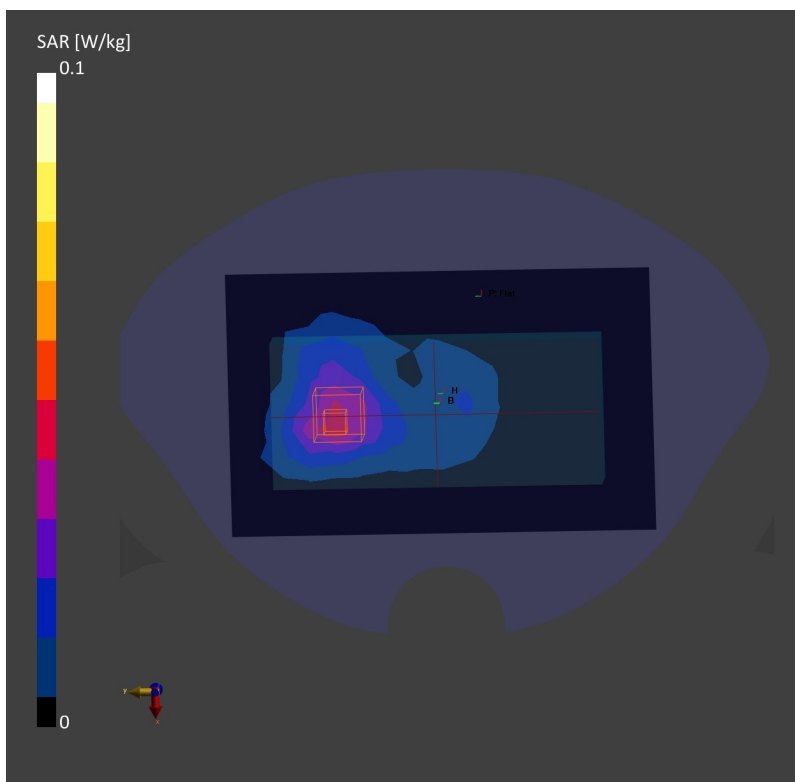
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.040 W/kg; SAR (10g) = 0.021 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = 0.02 dB

SAR (1g) = 0.041 W/kg; SAR (10g) = 0.021 W/kg;



37_Bluetooth_1Mbps_Top Side_10mm_Ch39

Communication System: ISM 2.4 GHz Band; Frequency: 2441.0

Medium: HSL. Medium parameters used: $f = 2441.0$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 40.8$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

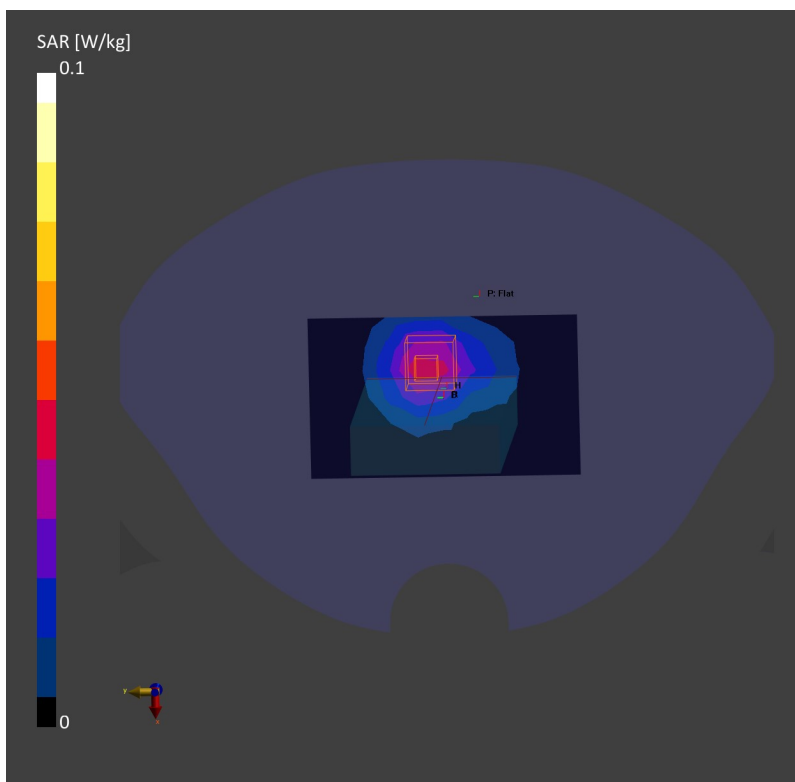
Area Scan (72.0 mm x 120.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.040 W/kg; SAR (10g) = 0.021 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = -0.03 dB

SAR (1g) = 0.042 W/kg; SAR (10g) = 0.022 W/kg;



38_WLAN5GHz_802.11n-HT40 MCS0_Left Side_10mm_Ch46

Communication System: WLAN 5GHz; Frequency: 5230.0

Medium: HSL. Medium parameters used: $f = 5230.0$ MHz; $\sigma = 4.53$ S/m; $\epsilon_r = 35.0$

Ambient Temperature: 23.4°C; Liquid Temperature: 22.8°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(5.38, 5.38, 5.38); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

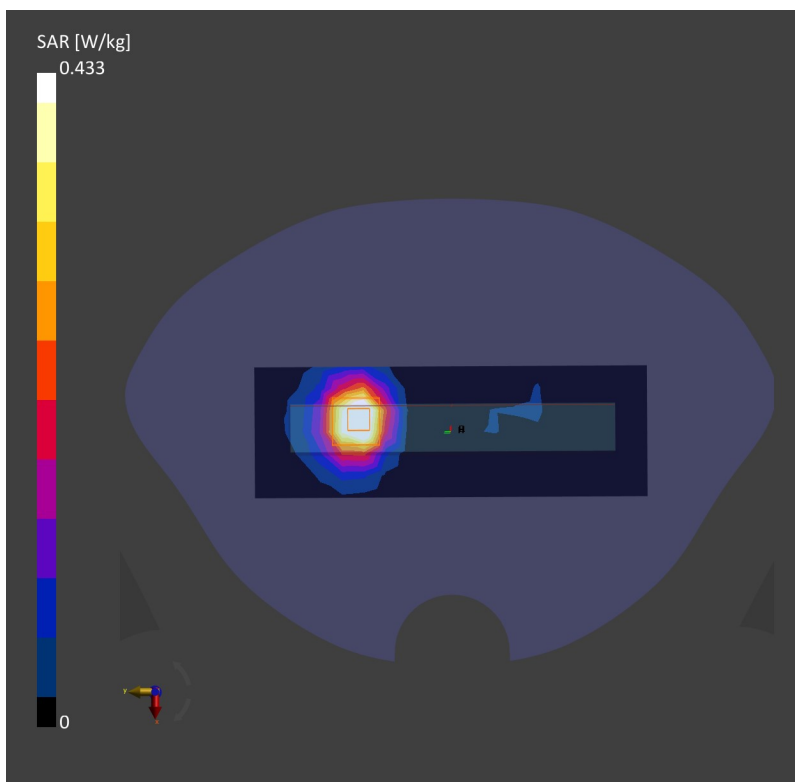
Area Scan (60.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 0.410 W/kg; SAR (10g) = 0.157 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.07 dB

SAR (1g) = 0.433 W/kg; SAR (10g) = 0.162 W/kg;



39_WLAN5GHz_802.11n-HT40 MCS0_Back_10mm_Ch151

Communication System: WLAN 5GHz; Frequency: 5755.0

Medium: HSL. Medium parameters used: $f = 5755.0$ MHz; $\sigma = 5.13$ S/m; $\epsilon_r = 34.1$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

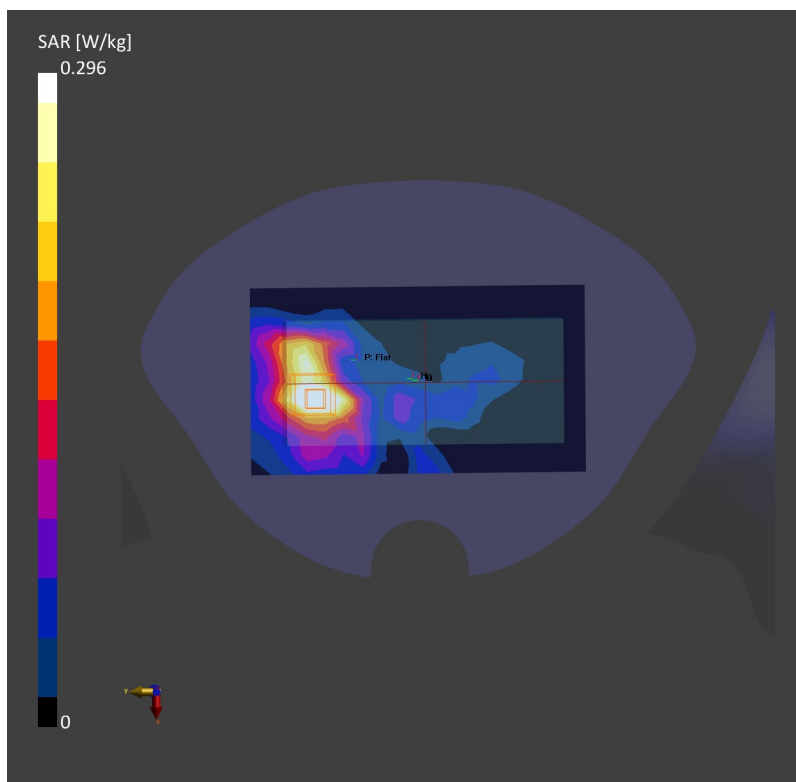
Area Scan (100.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 0.289 W/kg; SAR (10g) = 0.111 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.01 dB

SAR (1g) = 0.296 W/kg; SAR (10g) = 0.111 W/kg;



40_LTE Band 12_10M_QPSK_1RB_0Offset_Front_10mm_Ch23095

Communication System: Band 12, E-UTRA/FDD; Frequency: 707.5

Medium: HSL. Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 43.5$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

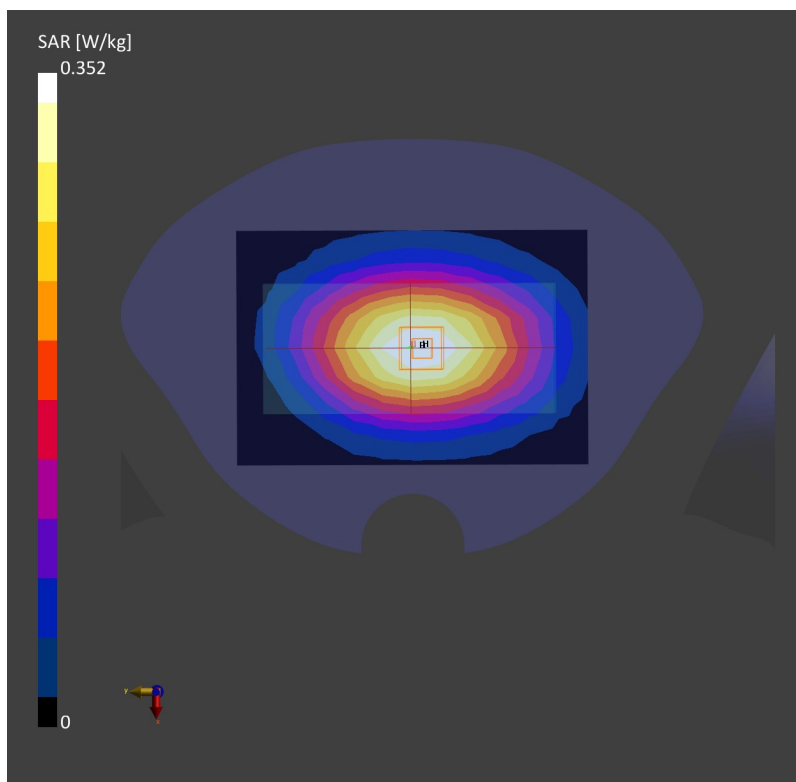
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.321 W/kg; SAR (10g) = 0.227 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.08 dB

SAR (1g) = 0.352 W/kg; SAR (10g) = 0.258 W/kg;



41_LTE Band 13_10M_QPSK_1RB_0Offset_Back_10mm_Ch23230

Communication System: Band 13, E-UTRA/FDD; Frequency: 782.0

Medium: HSL. Medium parameters used: $f = 782.0$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 43.3$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

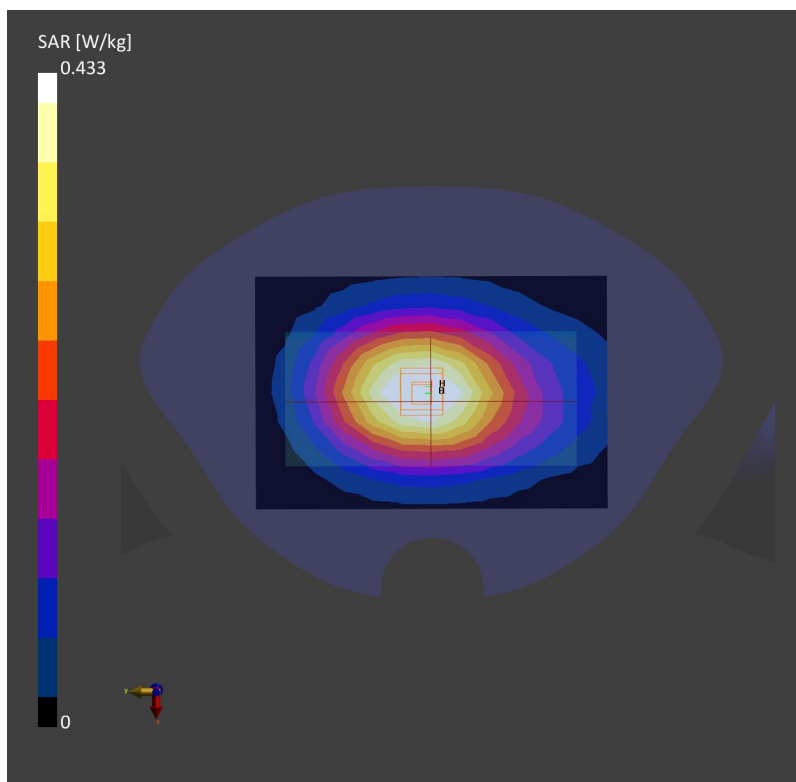
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.419 W/kg; SAR (10g) = 0.293 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.01 dB

SAR (1g) = 0.433 W/kg; SAR (10g) = 0.318 W/kg;



42_LTE Band 14_10M_QPSK_1RB_0Offset_Back_10mm_Ch23330

Communication System: Band 14, E-UTRA/FDD; Frequency: 793.0

Medium: HSL. Medium parameters used: $f = 793.0$ MHz; $\sigma = 0.930$ S/m; $\epsilon_r = 43.3$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

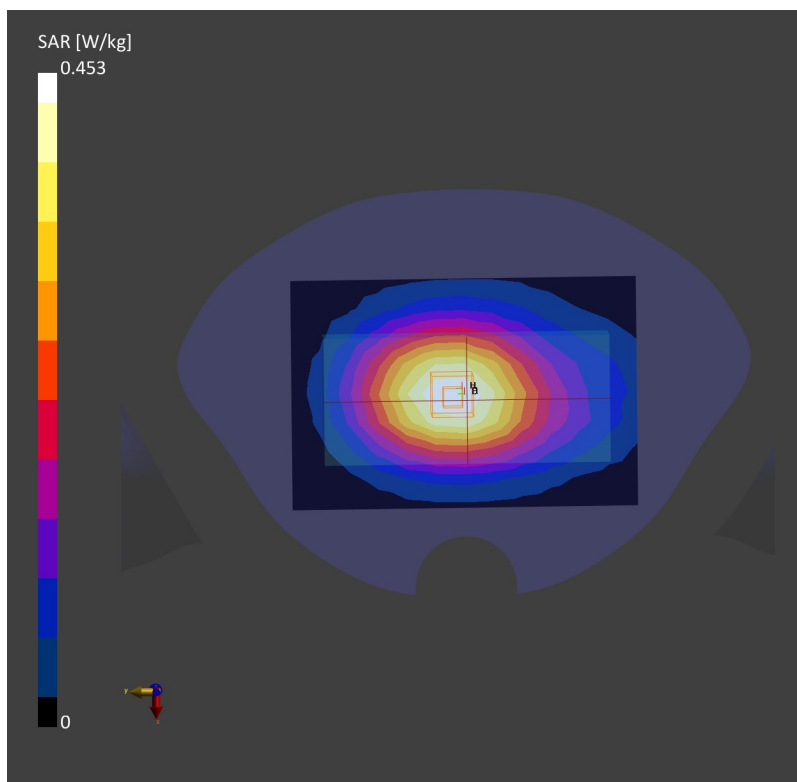
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.410 W/kg; SAR (10g) = 0.288 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.04 dB

SAR (1g) = 0.453 W/kg; SAR (10g) = 0.333 W/kg;



43_LTE Band 71_20M_QPSK_1RB_0Offset_Back_10mm_Ch133322

Communication System: Band 71, E-UTRA/FDD; Frequency: 683.0

Medium: HSL. Medium parameters used: $f = 683.0$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 43.6$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

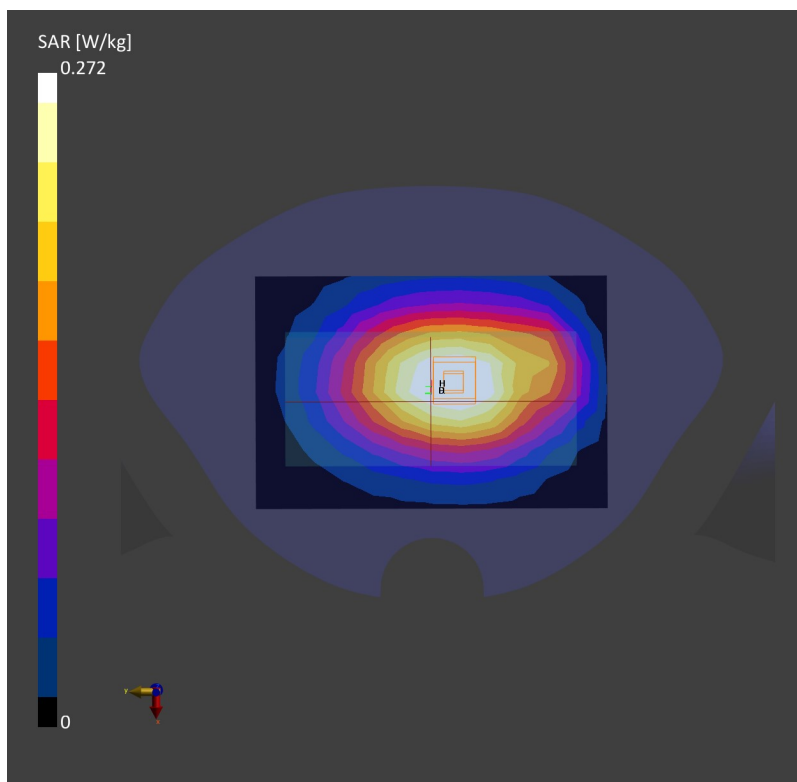
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.261 W/kg; SAR (10g) = 0.185 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.06 dB

SAR (1g) = 0.272 W/kg; SAR (10g) = 0.200 W/kg;



44_GSM850_GPRS (1 Tx slots)_Back_10mm_Ch189

Communication System: GSM 850; Frequency: 836.4

Medium: HSL. Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.5$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.9°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

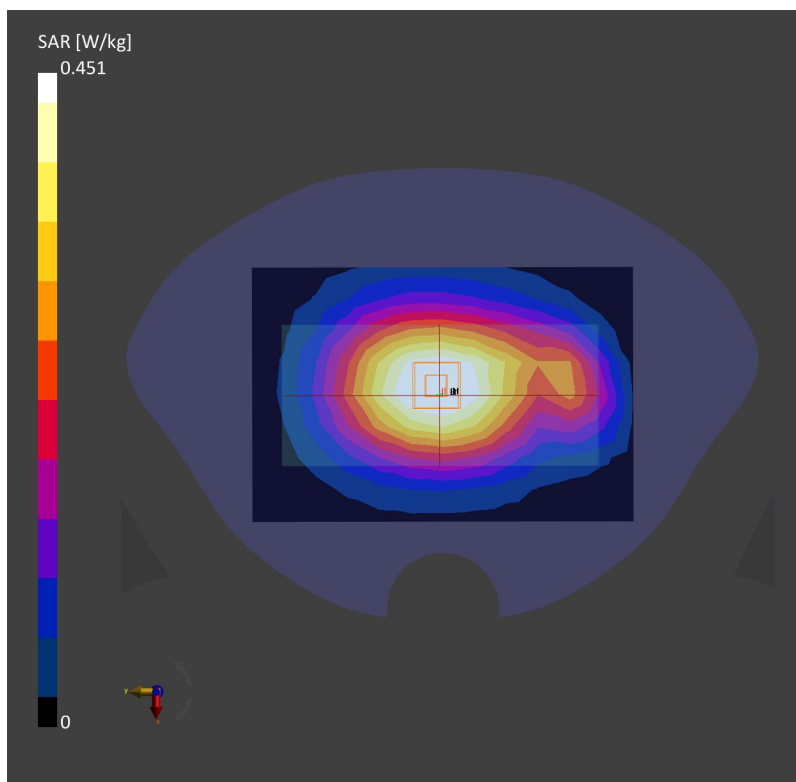
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.435 W/kg; SAR (10g) = 0.303 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.05dB

SAR (1g) = 0.451 W/kg; SAR (10g) = 0.328 W/kg;



45_WCDMA V_RMC 12.2Kbps_Back_10mm_Ch4182

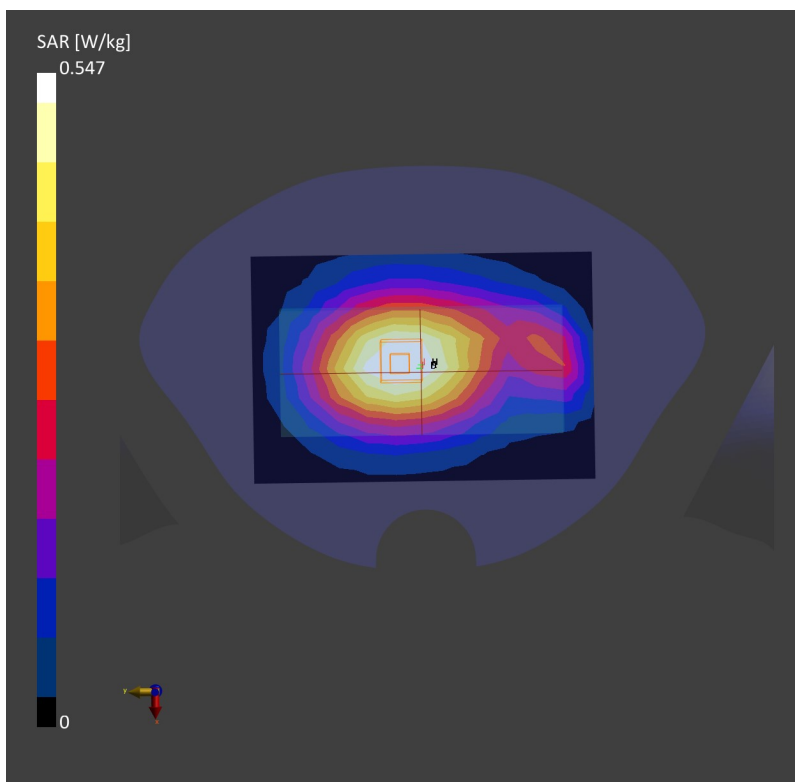
Communication System: Band 5, UTRA/FDD; Frequency: 836.4
Medium: HSL. Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.5$
Ambient Temperature: 23.3°C; Liquid Temperature: 22.9°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm
SAR (1g) = 0.509 W/kg; SAR (10g) = 0.355 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm
Power Drift = 0.09 dB
SAR (1g) = 0.547 W/kg; SAR (10g) = 0.397 W/kg;



46_LTE Band 26_15M_QPSK_1RB_0Offset_Back_10mm_Ch26865

Communication System: Band 26 E-UTRA/FDD; Frequency: 831.5

Medium: HSL. Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.5$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.9°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

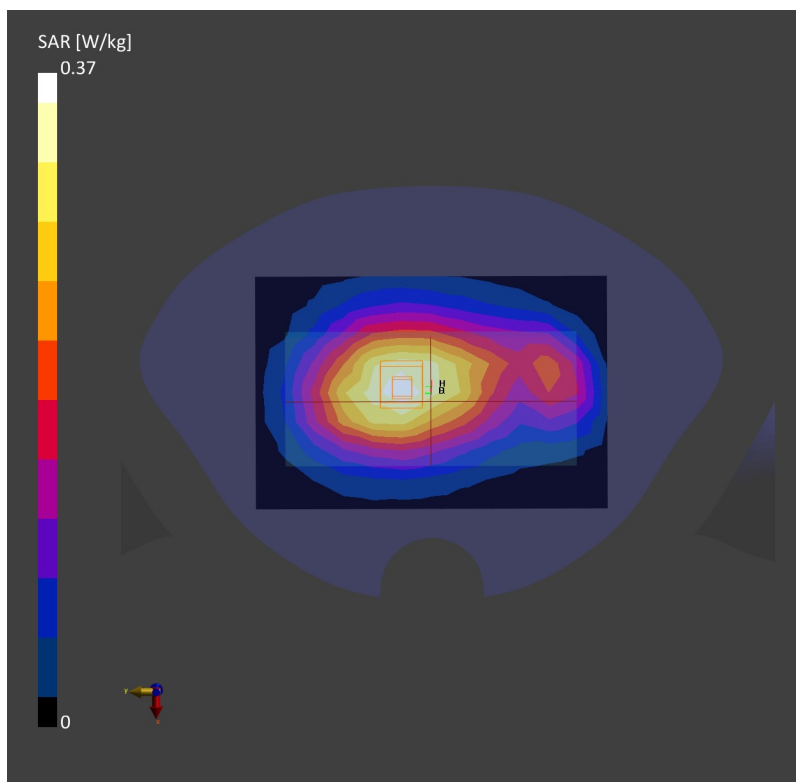
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.325 W/kg; SAR (10g) = 0.225 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.04 dB

SAR (1g) = 0.370 W/kg; SAR (10g) = 0.269 W/kg;



47_WCDMA IV_RMC 12.2Kbps_Back_10mm_Ch1312

Communication System: Band 4, UTRA/FDD; Frequency: 1712.4

Medium: HSL. Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.0$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

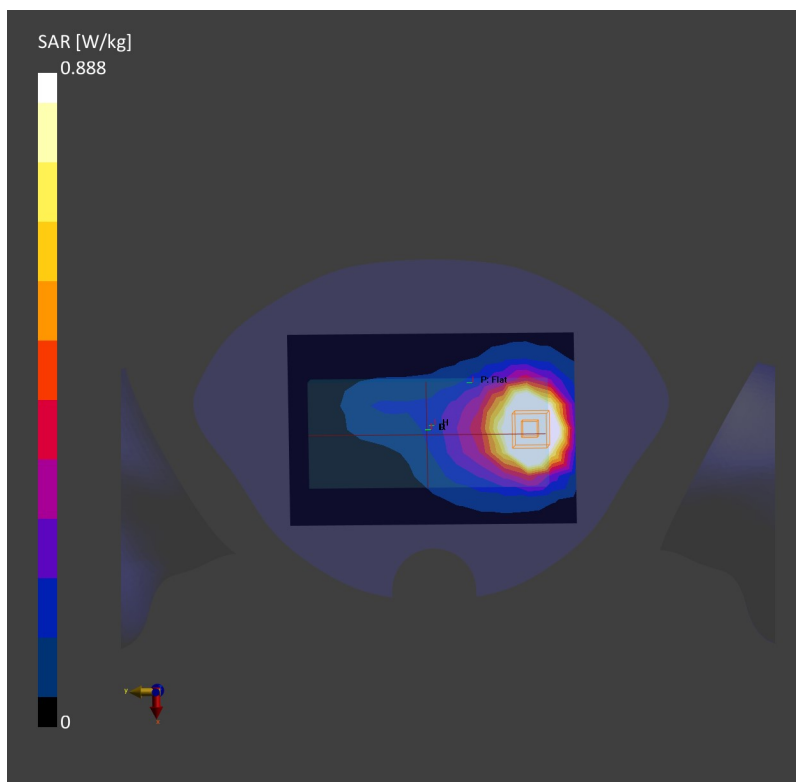
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.804 W/kg; SAR (10g) = 0.512 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.02 dB

SAR (1g) = 0.888 W/kg; SAR (10g) = 0.519 W/kg;



48_LTE Band 66_20M_QPSK_1RB_0Offset_Back_10mm_Ch132322

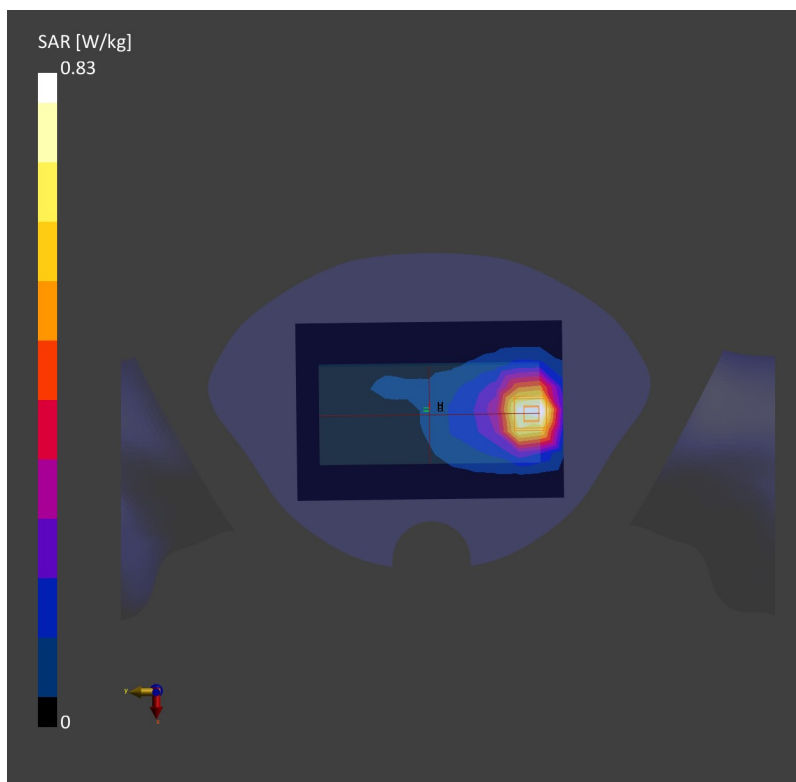
Communication System: Band 66, E-UTRA/FDD; Frequency: 1745.0
Medium: HSL. Medium parameters used: $f = 1745.0$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 39.9$
Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm
SAR (1g) = 0.764 W/kg; SAR (10g) = 0.452 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm
Power Drift = -0.05 dB
SAR (1g) = 0.830 W/kg; SAR (10g) = 0.493 W/kg;



49_GSM1900_GPRS (3 Tx slots)_Back_10mm_Ch661

Communication System: PCS 1900; Frequency: 1880.0

Medium: HSL. Medium parameters used: $f = 1880.0$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.8$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.9°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

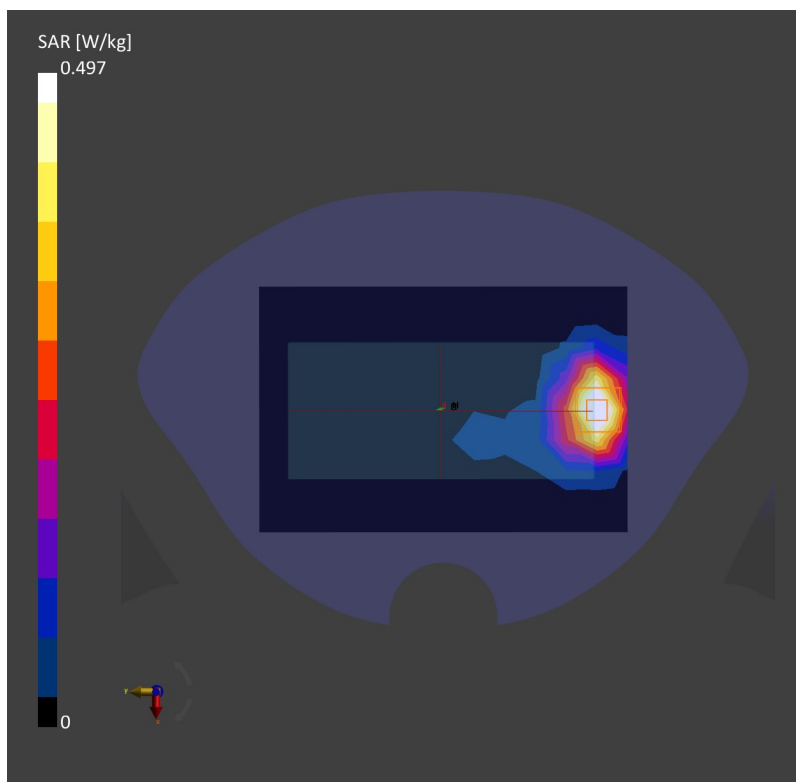
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.498 W/kg; SAR (10g) = 0.273 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.14 dB

SAR (1g) = 0.497 W/kg; SAR (10g) = 0.270 W/kg;



50_WCDMA II_RMC 12.2Kbps_Back_10mm_Ch9262

Communication System: Band 2, UTRA/FDD; Frequency: 1852.4

Medium: HSL. Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.8$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.9°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

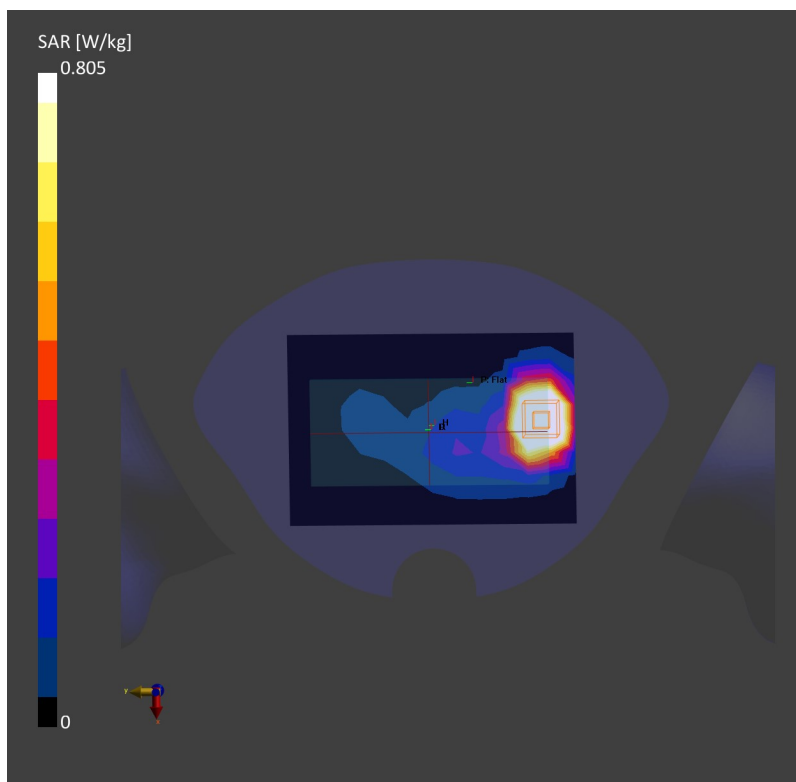
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.789 W/kg; SAR (10g) = 0.426 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.01 dB

SAR (1g) = 0.805 W/kg; SAR (10g) = 0.449 W/kg;



51_LTE Band 25_20M_QPSK_1RB_0Offset_Back_10mm_Ch26340

Communication System: Band 25, E-UTRA/FDD; Frequency: 1880.0

Medium: HSL. Medium parameters used: $f = 1880.0$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.8$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.9°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

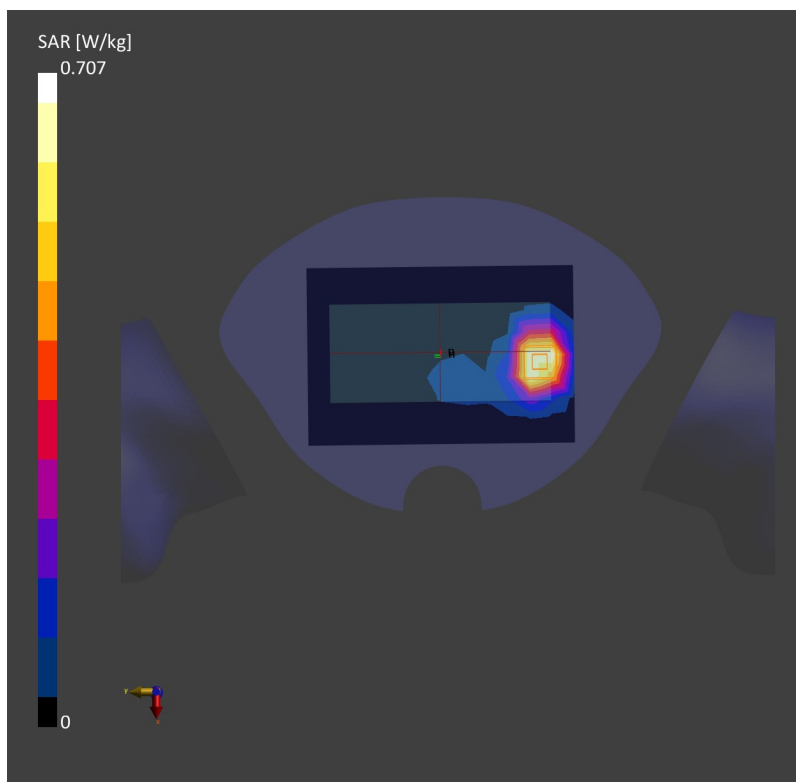
Area Scan (120.0 mm x 180.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.640 W/kg; SAR (10g) = 0.366 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.09 dB

SAR (1g) = 0.707 W/kg; SAR (10g) = 0.384 W/kg;



52_LTE Band 30_10M_QPSK_1RB_0Offset_Back_10mm_Ch27710

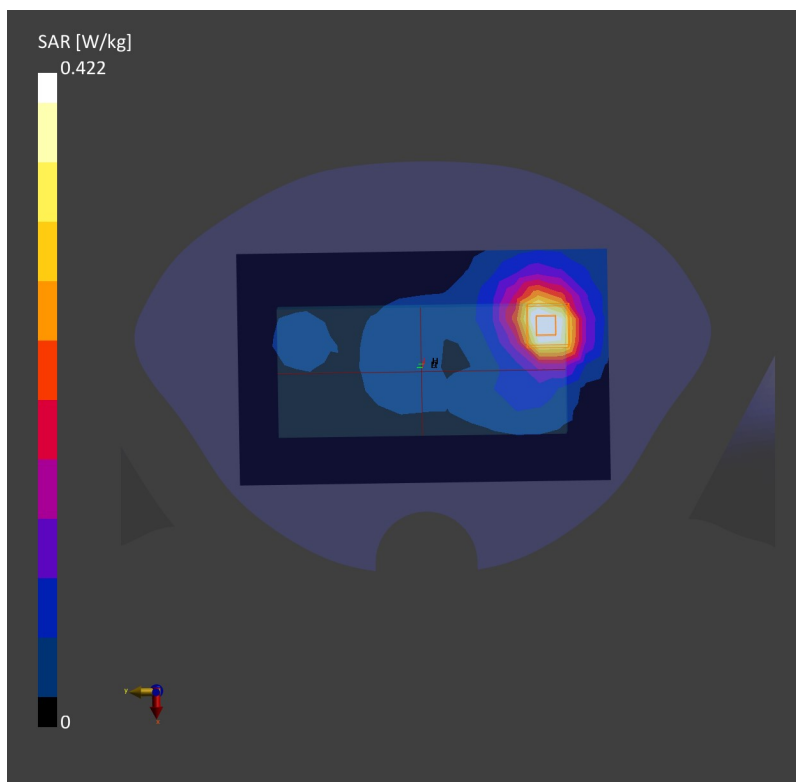
Communication System: Band 30, E-UTRA/FDD; Frequency: 2310.0
Medium: HSL. Medium parameters used: $f = 2310.0$ MHz; $\sigma = 1.72$ S/m; $\epsilon_r = 38.7$
Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.74, 7.74, 7.74); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 0.399 W/kg; SAR (10g) = 0.212 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm
Power Drift = -0.01dB
SAR (1g) = 0.422 W/kg; SAR (10g) = 0.216 W/kg;



53_LTE Band 7_20M_QPSK_1RB_0Offset_Back_10mm_Ch21100

Communication System: Band 7, E-UTRA/FDD; Frequency: 2535.0

Medium: HSL. Medium parameters used: $f = 2535.0$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 40.6$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

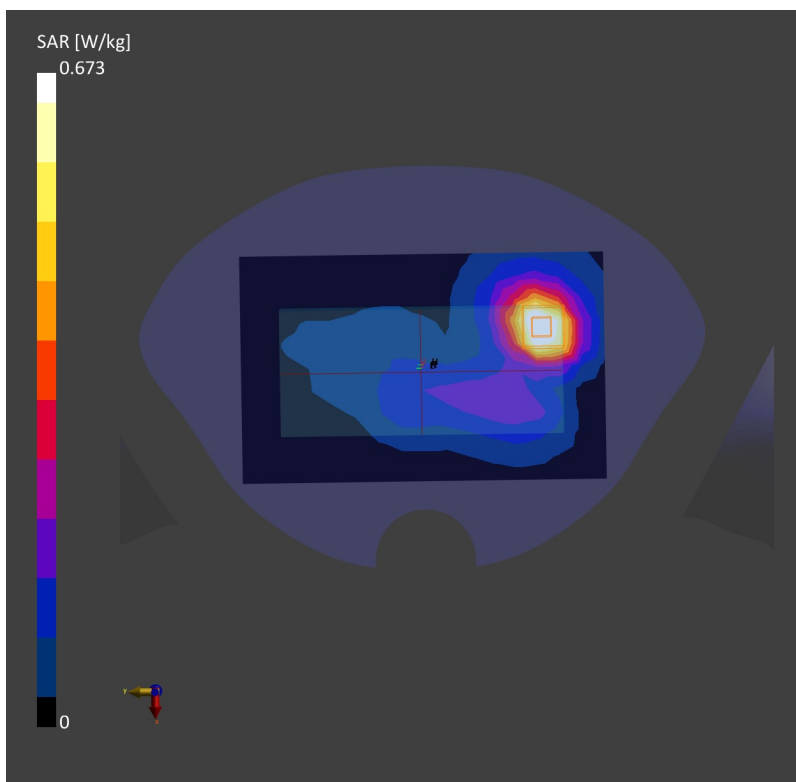
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.647 W/kg; SAR (10g) = 0.336 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = -0.03 dB

SAR (1g) = 0.673 W/kg; SAR (10g) = 0.342 W/kg;



54_LTE Band 41_HPUE_20M_QPSK_1RB_0Offset_Back_10mm_Ch40620

Communication System: Band 41, E-UTRA/TDD; Frequency: 2593.0

Medium: HSL. Medium parameters used: $f = 2593.0$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 40.6$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

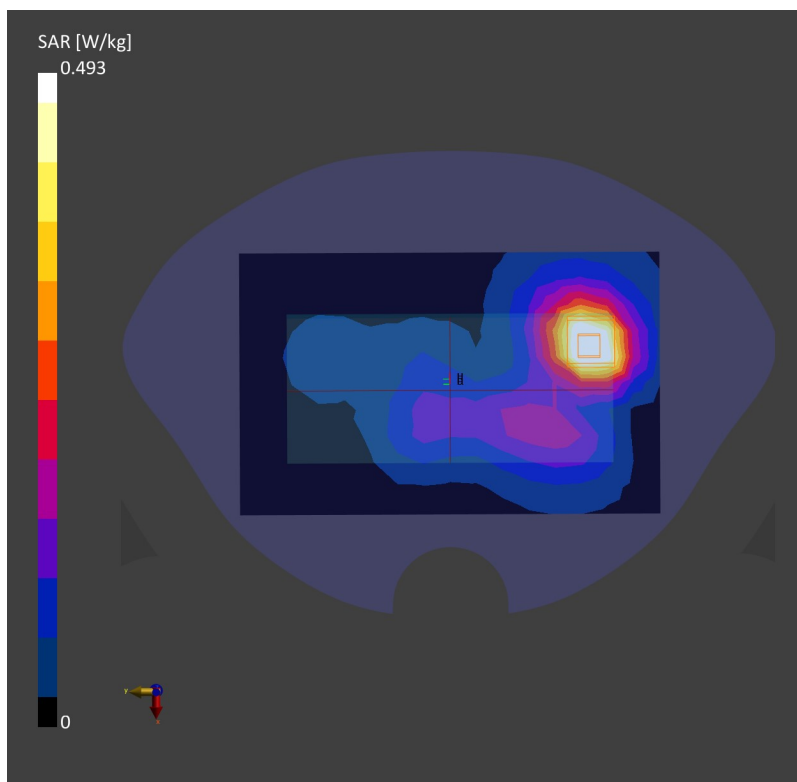
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.484 W/kg; SAR (10g) = 0.252 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = -0.13 dB

SAR (1g) = 0.493 W/kg; SAR (10g) = 0.250 W/kg;



55_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ch11

Communication System: WLAN 2.4GHz; Frequency: 2462.0

Medium: HSL. Medium parameters used: $f = 2462.0$ MHz; $\sigma = 1.88$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

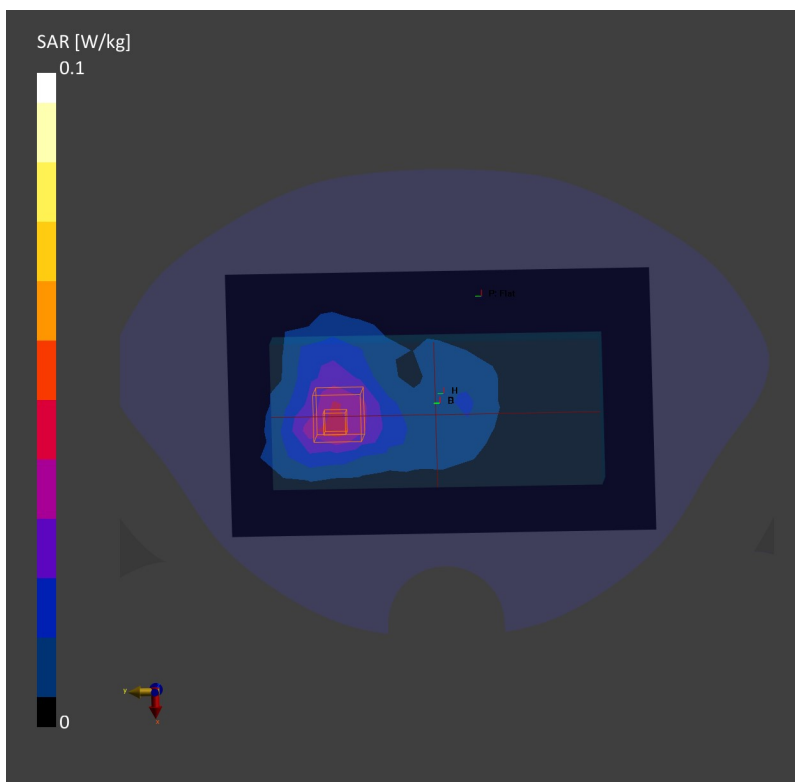
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.040 W/kg; SAR (10g) = 0.021 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = 0.02 dB

SAR (1g) = 0.041 W/kg; SAR (10g) = 0.021 W/kg;



56_Bluetooth_1Mbps_Back_10mm_Ch39

Communication System: ISM 2.4 GHz Band; Frequency: 2441.0

Medium: HSL. Medium parameters used: $f=2441.0$ MHz; $\sigma=1.86$ S/m; $\epsilon_r=40.8$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

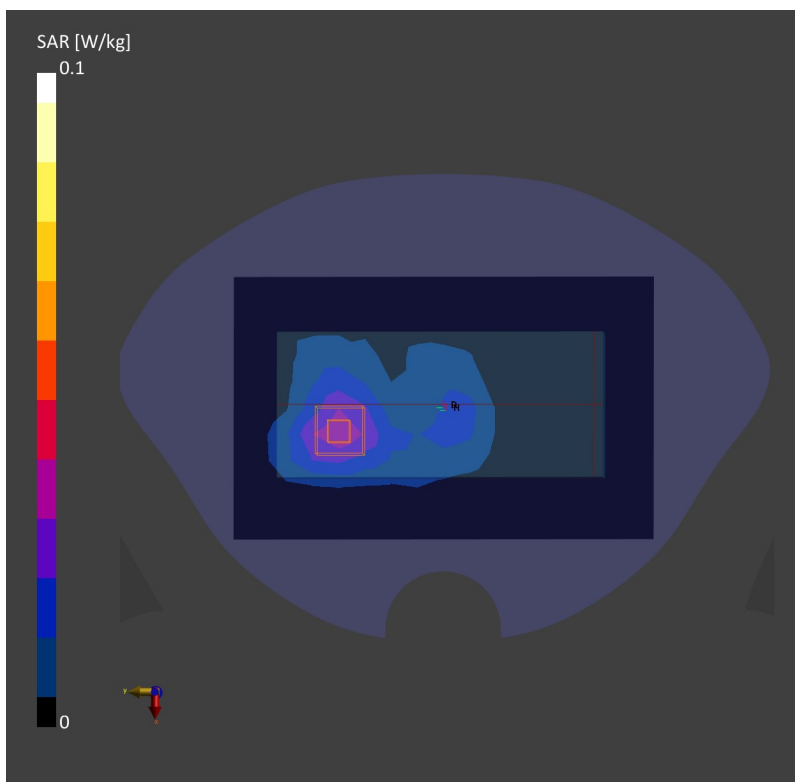
Area Scan (120.0 mm x 192.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 0.033 W/kg; SAR (10g) = 0.018 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = 0.01 dB

SAR (1g) = 0.036 W/kg; SAR (10g) = 0.019 W/kg;



57_WLAN5GHz_802.11n-HT40 MCS0_Back_10mm_Ch54

Communication System: WLAN 5GHz; Frequency: 5270.0

Medium: HSL. Medium parameters used: $f = 5270.0$ MHz; $\sigma = 4.59$ S/m; $\epsilon_r = 35.0$

Ambient Temperature: 23.4°C; Liquid Temperature: 22.8°C

DASY6 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(5.04, 5.04, 5.04); Calibrated: 2021-04-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

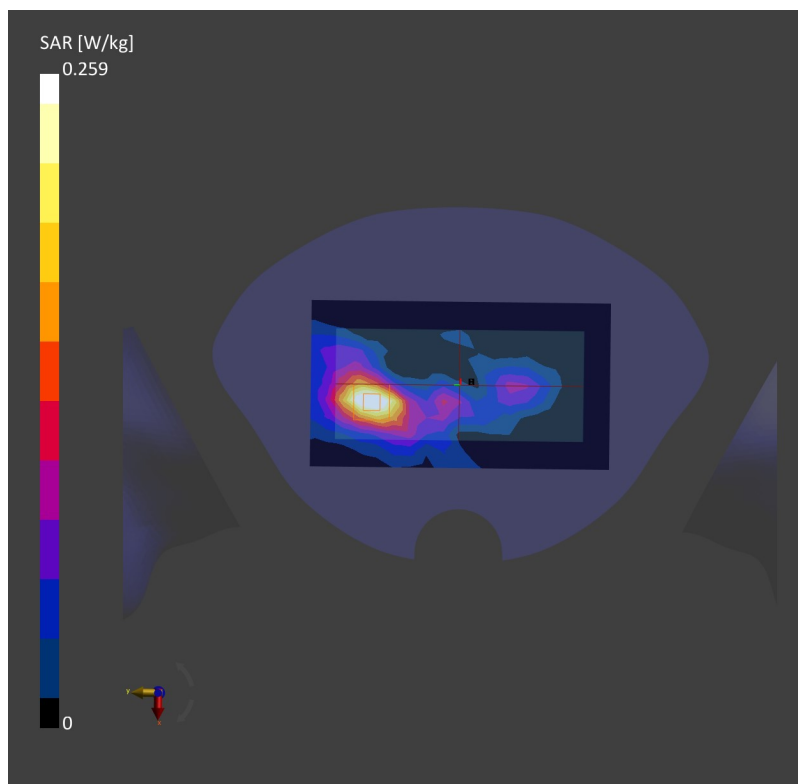
Area Scan (100.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 0.252 W/kg; SAR (10g) = 0.098 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.01 dB

SAR (1g) = 0.259 W/kg; SAR (10g) = 0.098 W/kg;



58_WLAN5GHz_802.11n-HT40 MCS0_Back_10mm_Ch110

Communication System: WLAN 5GHz; Frequency: 5550.0

Medium: HSL. Medium parameters used: $f = 5550.0$ MHz; $\sigma = 4.89$ S/m; $\epsilon_r = 34.5$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.68, 4.68, 4.68); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

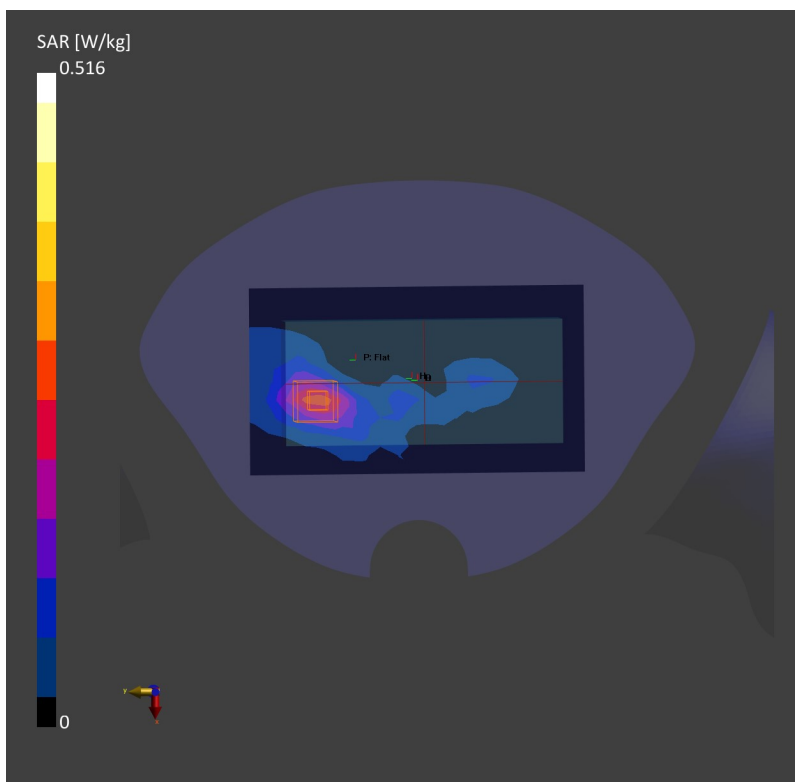
Area Scan (100.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 0.507 W/kg; SAR (10g) = 0.186 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.10 dB

SAR (1g) = 0.516 W/kg; SAR (10g) = 0.195 W/kg;



59_WLAN5GHz_802.11n-HT40 MCS0_Back_10mm_Ch151

Communication System: WLAN 5GHz; Frequency: 5755.0

Medium: HSL. Medium parameters used: $f = 5755.0$ MHz; $\sigma = 5.13$ S/m; $\epsilon_r = 34.1$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

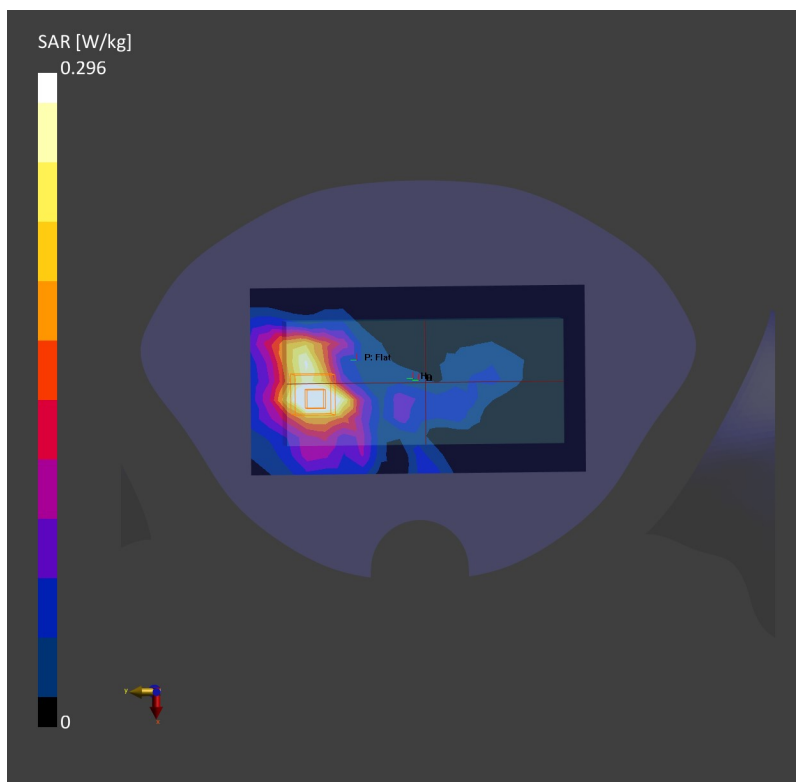
Area Scan (100.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 0.289 W/kg; SAR (10g) = 0.111 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.01 dB

SAR (1g) = 0.296 W/kg; SAR (10g) = 0.111 W/kg;





Appendix C. DASY Calibration Certificate

The DASY calibration certificates are shown as follows.



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中国认可
国际互认
校准
CALIBRATION
CNAS L0570

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Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client

Sporton

Certificate No: **Z19-60081**

CALIBRATION CERTIFICATE

Object

D750V3 - SN: 1087

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

March 27, 2019

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	106277	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Power sensor NRP8S	104291	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1331	06-Feb-19(SPEAG,No.DAE4-1331_Feb19)	Feb-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: March 29, 2019

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



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CALIBRATION LABORATORY

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E-mail: cttl@chinattl.com

http://www.chinattl.cn

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,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, "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
- 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
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- 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	52.10.2.1495
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	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	43.0 $\pm$ 6 %	0.90 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.10 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.36 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.65 W/kg $\pm$ 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	56.9 $\pm$ 6 %	0.94 mho/m $\pm$ 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.58 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.41 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.75 W/kg $\pm$ 18.7 % (k=2)