

Test Laboratory: Audix SAR Lab

Date: 03/09/2019

CH20175(1732.5MHz Back)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 53.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.00, 8.00, 8.00); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20175(1732.5MHz Back)/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.452 W/kg

Configuration/CH20175(1732.5MHz Back)/Zoom Scan (5x5x7)/Cube 0:

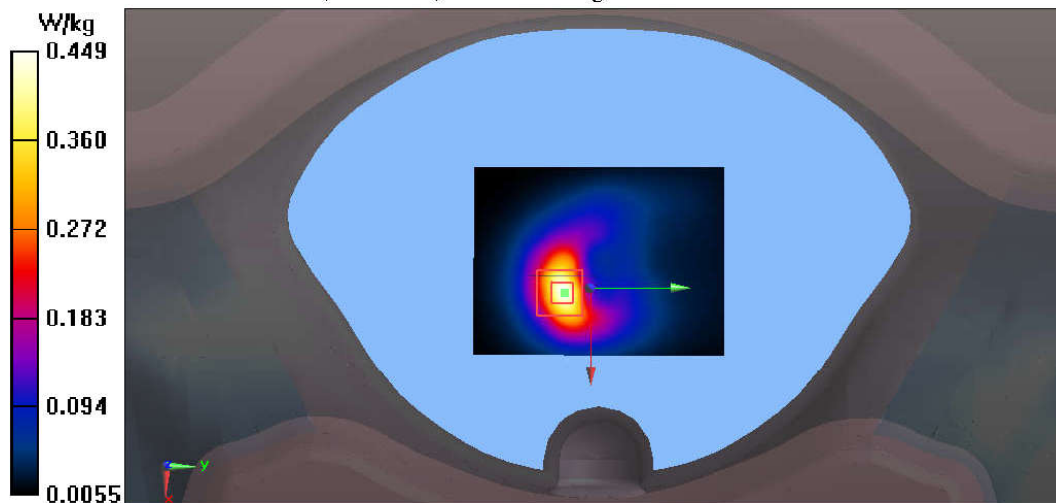
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.692 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.215 W/kg

Maximum value of SAR (measured) = 0.449 W/kg



Test Laboratory: Audix SAR Lab
CH20175(1732.5MHz Bottom)

Date: 03/09/2019

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 53.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.00, 8.00, 8.00); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20175(1732.5MHz Bottom)/Area Scan (61x81x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.222 W/kg

Configuration/CH20175(1732.5MHz Bottom)/Zoom Scan (5x5x7)/Cube 0:

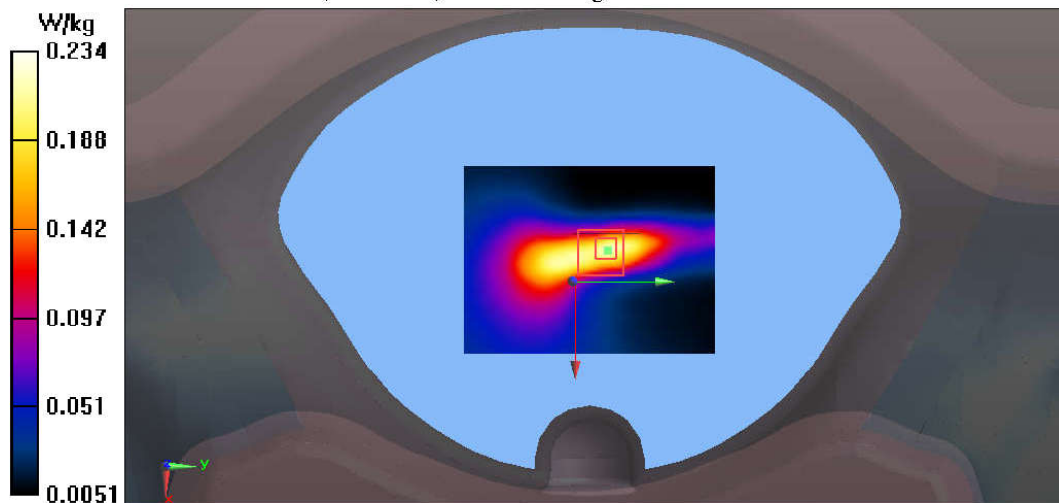
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.53 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.234 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

CH20175(1732.5MHz Front)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 53.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.00, 8.00, 8.00); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20175(1732.5MHz Front)/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.310 W/kg

Configuration/CH20175(1732.5MHz Front)/Zoom Scan (5x5x7)/Cube 0:

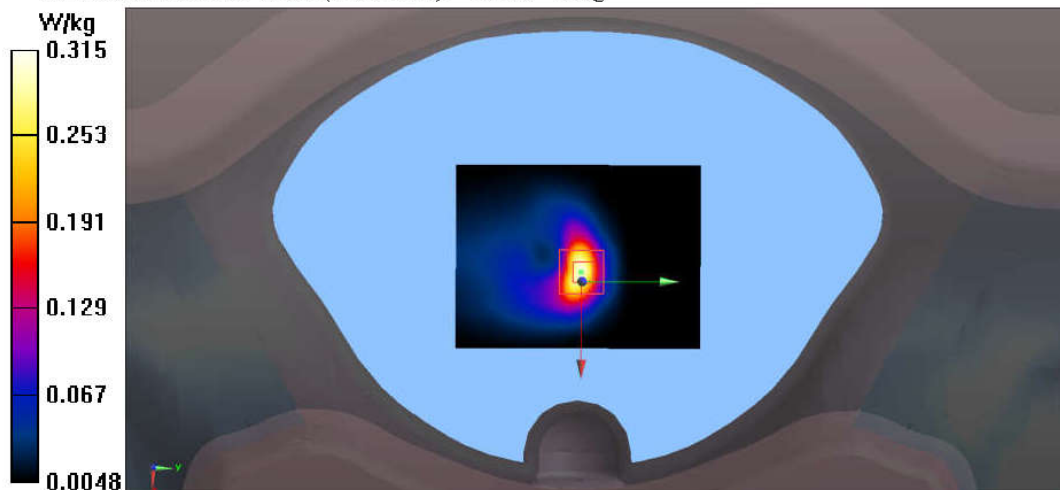
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.33 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.128 W/kg

Maximum value of SAR (measured) = 0.315 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

CH20175(1732.5MHz Right)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 53.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.00, 8.00, 8.00); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20175(1732.5MHz Right)/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.806 W/kg

Configuration/CH20175(1732.5MHz Right)/Zoom Scan (5x5x7)/Cube 0:

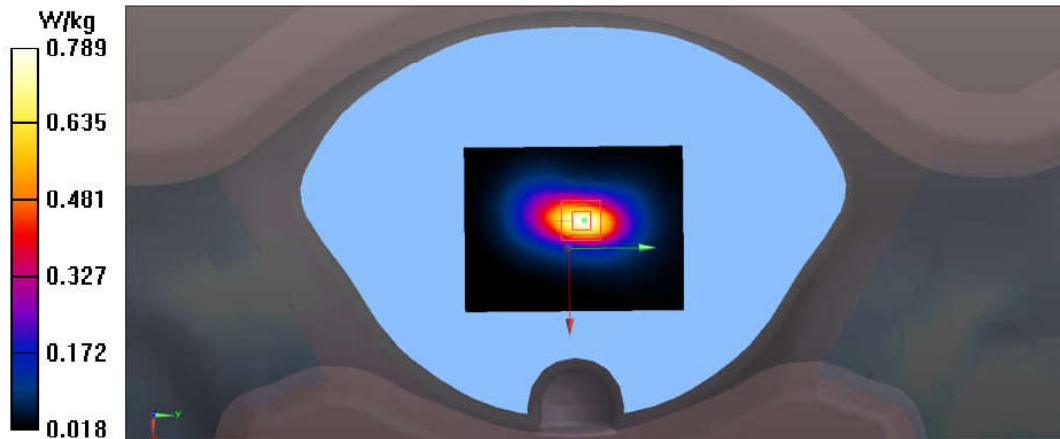
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.97 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.385 W/kg

Maximum value of SAR (measured) = 0.789 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

CH20175(1732.5MHz Top)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 53.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.00, 8.00, 8.00); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20175(1732.5MHz Top)/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0415 W/kg

Configuration/CH20175(1732.5MHz Top)/Zoom Scan (5x5x7)/Cube 0:

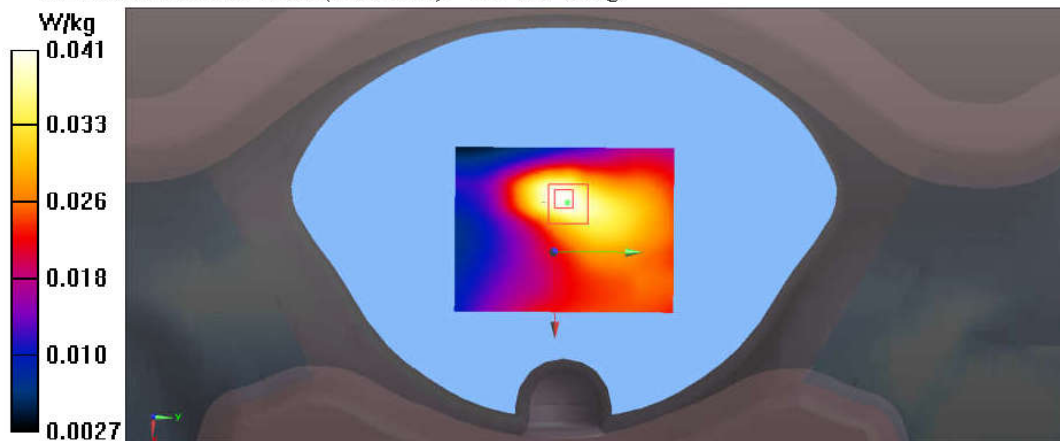
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.751 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0560 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0407 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

Head 15 Degree Left CH20175(1732.5MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 40.136$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.32, 8.32, 8.32); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head 15 Degree Left CH20175(1732.5MHz)/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.316 W/kg

Configuration/Head 15 Degree Left CH20175(1732.5MHz)/Zoom Scan

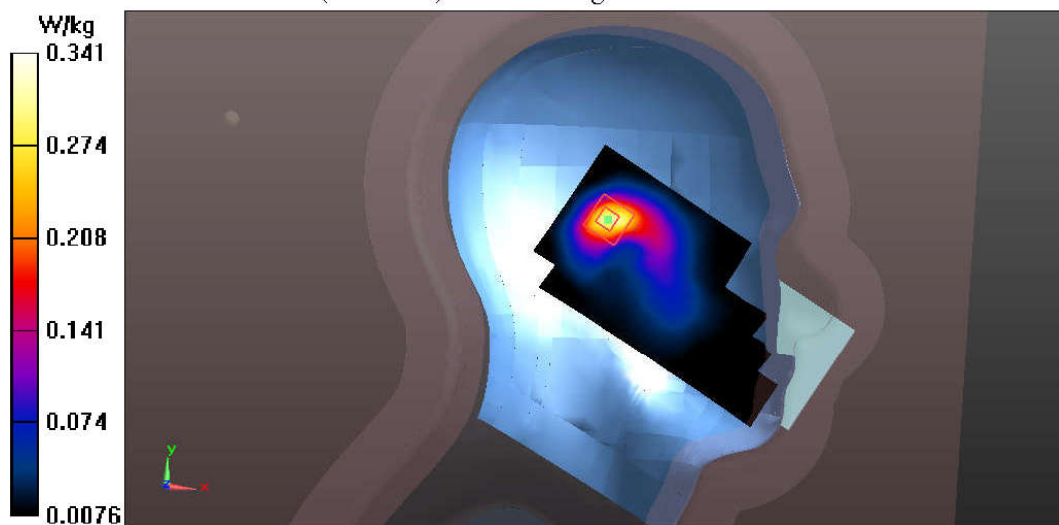
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.63 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.341 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

Head 15 Degree Right CH20175(1732.5MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 40.136$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.32, 8.32, 8.32); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head 15 Degree Right CH20175(1732.5MHz)-Right/Area Scan

(121x61x1): Interpolated grid: $dx = 1.500$ mm, $dy = 1.500$ mm

Maximum value of SAR (interpolated) = 0.275 W/kg

Configuration/Head 15 Degree Right CH20175(1732.5MHz)-Right/Zoom

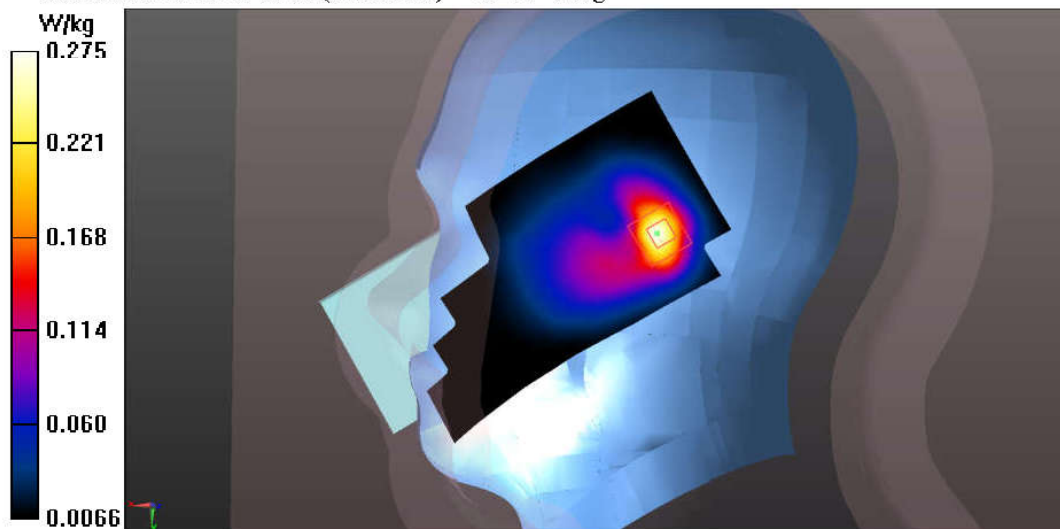
Scan (5x5x7)/Cube 0: Measurement grid: $dx = 8$ mm, $dy = 8$ mm, $dz = 5$ mm

Reference Value = 7.370 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.275 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

Head Touch Left CH20175(1732.5MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 40.136$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.32, 8.32, 8.32); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head Touch Left CH20175(1732.5MHz)-Right/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.320 W/kg

Configuration/Head Touch Left CH20175(1732.5MHz)-Right/Zoom Scan

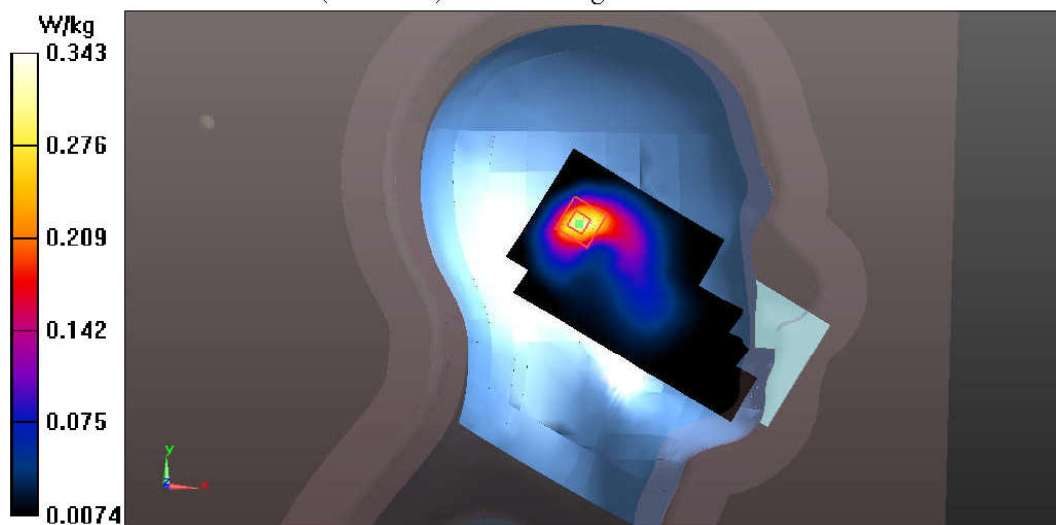
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.69 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.343 W/kg



Test Laboratory: Audix SAR Lab

Date: 03/09/2019

Head Touch Right CH20175(1732.5MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 40.136$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.32, 8.32, 8.32); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head Touch Right CH20175-Right(1732.5MHz)/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.209 W/kg

Configuration/Head Touch Right CH20175-Right(1732.5MHz)/Zoom Scan

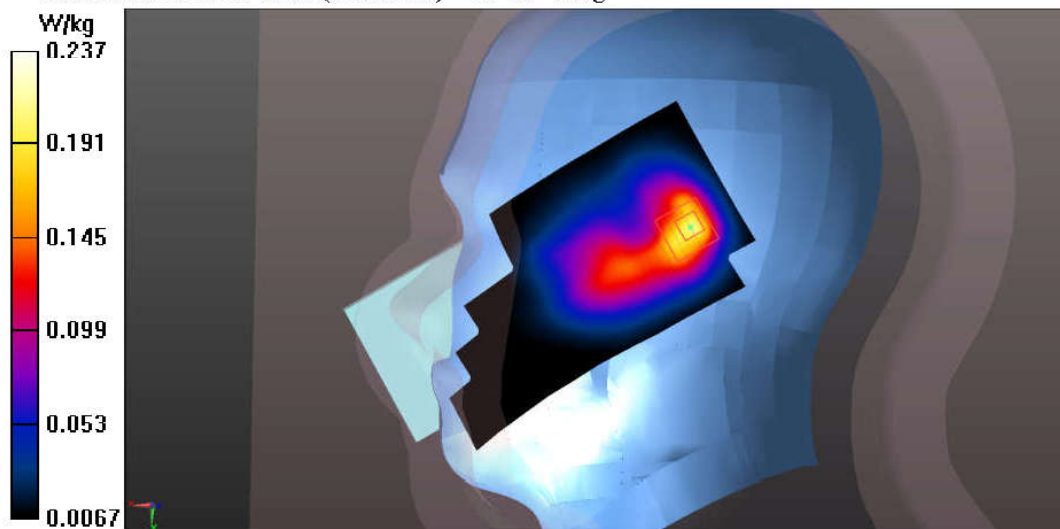
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.310 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.237 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

CH20525(836.5MHz Back)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 54.39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.62, 9.62, 9.62); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20525(836.5MHz Back)/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.00813 W/kg

Configuration/CH20525(836.5MHz Back)/Zoom Scan (5x5x7)/Cube 0:

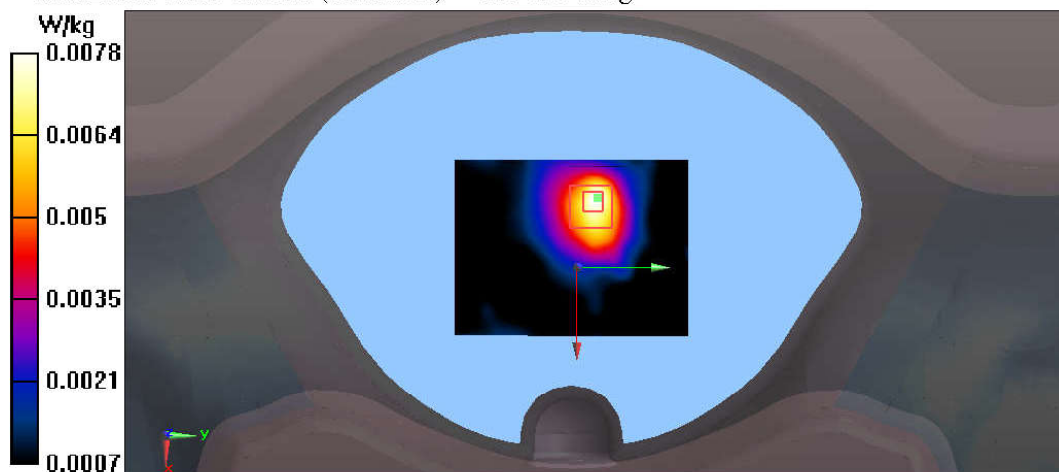
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.121 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0120 W/kg

SAR(1 g) = 0.00755 W/kg; SAR(10 g) = 0.00488 W/kg

Maximum value of SAR (measured) = 0.00784 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

CH20525(836.5MHz Bottom)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 54.39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.62, 9.62, 9.62); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20525(836.5MHz Bottom)/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.00646 W/kg

Configuration/CH20525(836.5MHz Bottom)/Zoom Scan (5x5x7)/Cube 0:

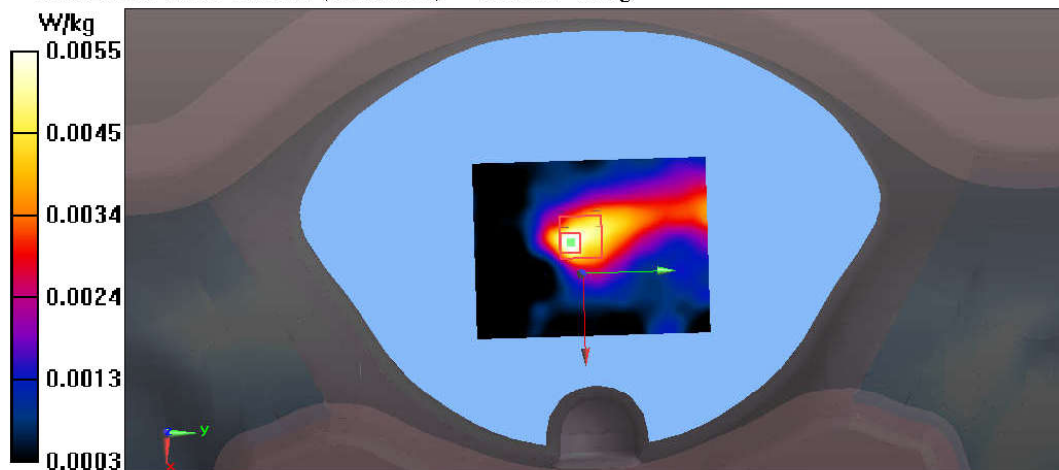
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.395 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.00852 W/kg

SAR(1 g) = 0.00499 W/kg; SAR(10 g) = 0.00327 W/kg

Maximum value of SAR (measured) = 0.00558 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

CH20525(836.5MHz Front)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 54.39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.62, 9.62, 9.62); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20525(836.5MHz Front)/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0171 W/kg

Configuration/CH20525(836.5MHz Front)/Zoom Scan (5x5x7)/Cube 0:

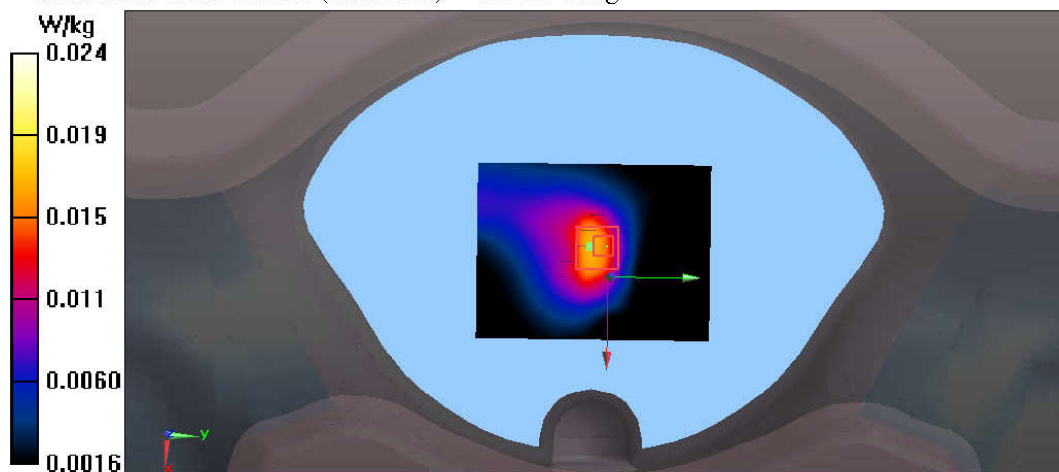
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.469 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0350 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0238 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

CH20525(836.5MHz Right)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 54.39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.62, 9.62, 9.62); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20525(836.5MHz Right)/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0132 W/kg

Configuration/CH20525(836.5MHz Right)/Zoom Scan (5x5x7)/Cube 0:

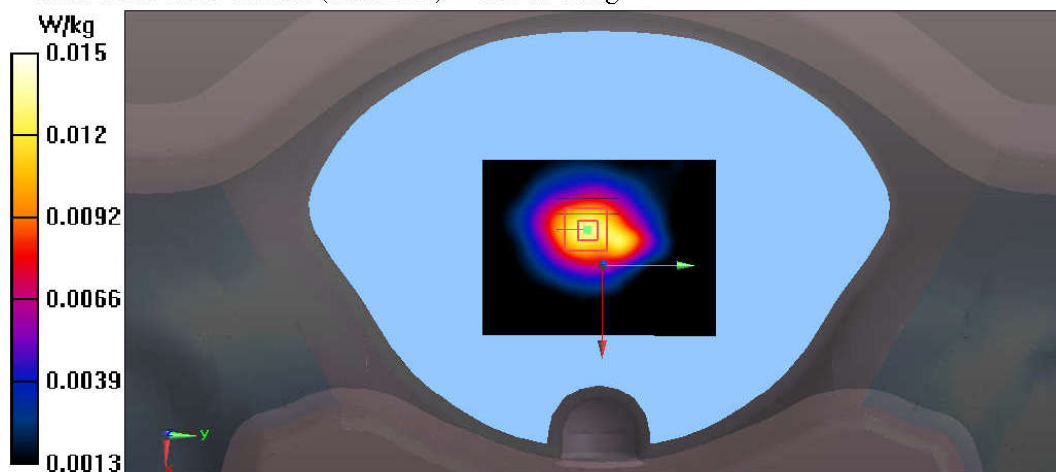
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.913 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00825 W/kg

Maximum value of SAR (measured) = 0.0146 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

CH20525(836.5MHz Top)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 54.39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.62, 9.62, 9.62); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20525(836.5MHz Top)/Area Scan (61x81x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.00607 W/kg

Configuration/CH20525(836.5MHz Top)/Zoom Scan (5x5x7)/Cube 0:

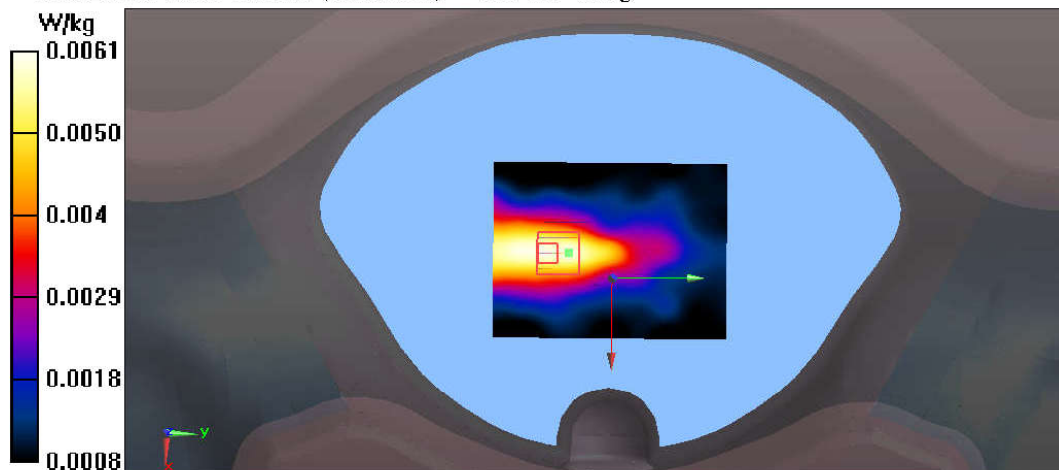
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.192 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.00804 W/kg

SAR(1 g) = 0.00558 W/kg; SAR(10 g) = 0.00402 W/kg

Maximum value of SAR (measured) = 0.00613 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

Head 15 Degree Left CH20525(836.5MHz) -Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.479$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.4, 9.4, 9.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head 15 Degree Left CH20525(836.5MHz)/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0333 W/kg

Configuration/Head 15 Degree Left CH20525(836.5MHz)/Zoom Scan

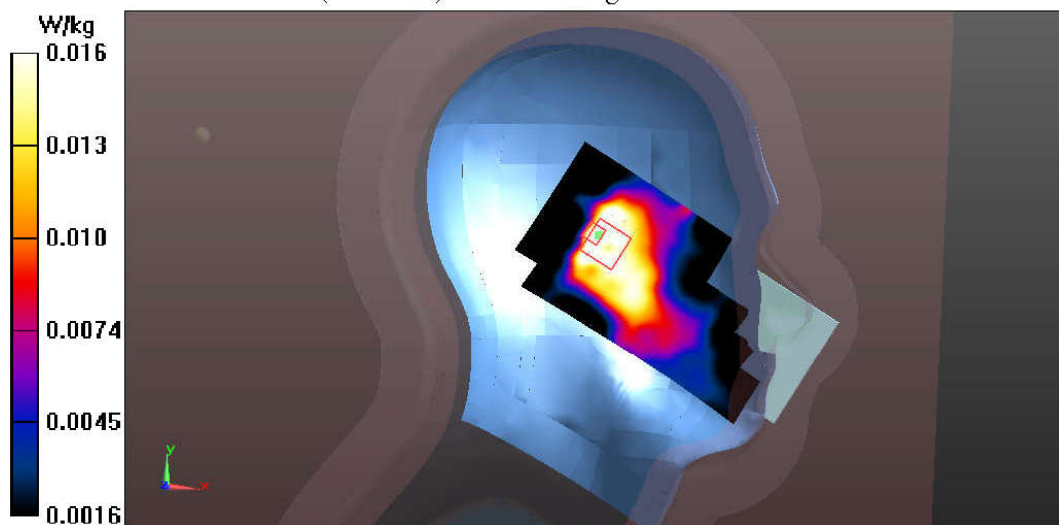
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.375 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.0230 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0162 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

Head 15 Degree Right CH20525(836.5MHz) -Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.4, 9.4, 9.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head 15 Degree Right CH20525(836.5MHz)/Area Scan

(121x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0144 W/kg

Configuration/Head 15 Degree Right CH20525(836.5MHz)/Zoom Scan

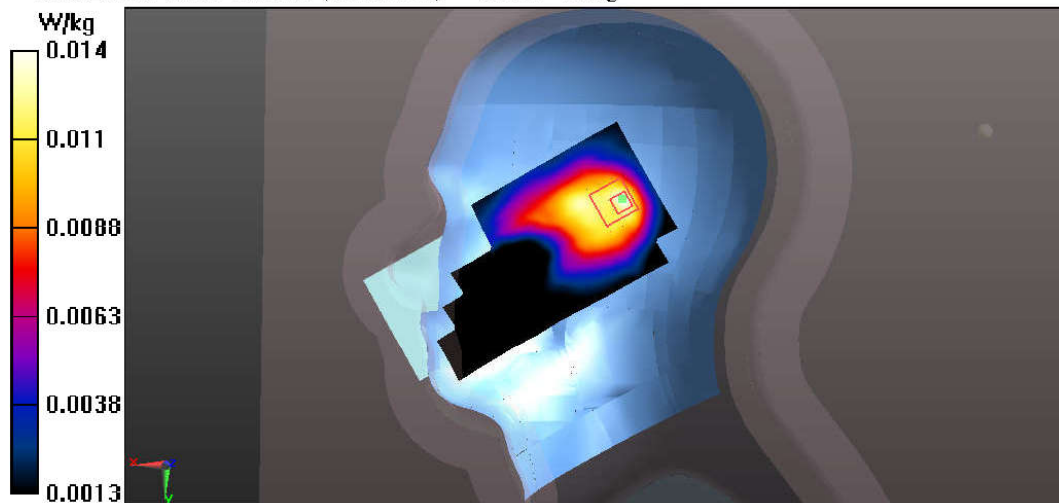
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.728 V/m ; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0180 W/kg

SAR(1 g) = 0.013 W/kg ; SAR(10 g) = 0.0095 W/kg

Maximum value of SAR (measured) = 0.0139 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

Head Touch Left CH20525(836.5MHz) -Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.4, 9.4, 9.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head Touch Left CH20525(836.5MHz)/Area Scan (121x61x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0249 W/kg

Configuration/Head Touch Left CH20525(836.5MHz)/Zoom Scan

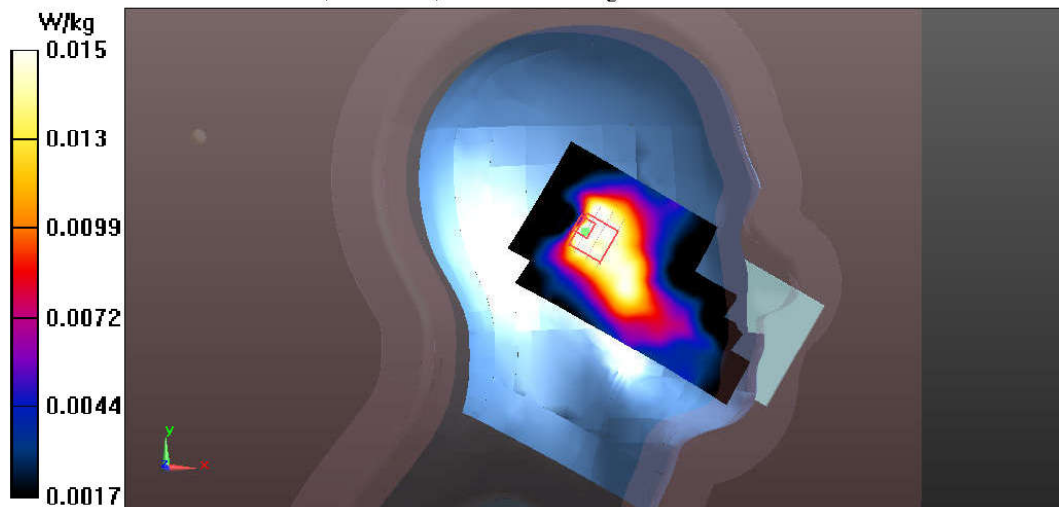
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.291 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.015 W/kg ; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0154 W/kg



Test Laboratory: Audix SAR Lab

Date: 30/08/2019

Head Touch Right CH20525(836.5MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.479$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.4, 9.4, 9.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head Touch Right CH20525(836.5MHz)/Area Scan

(121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0148 W/kg

Configuration/Head Touch Right CH20525(836.5MHz)/Zoom Scan

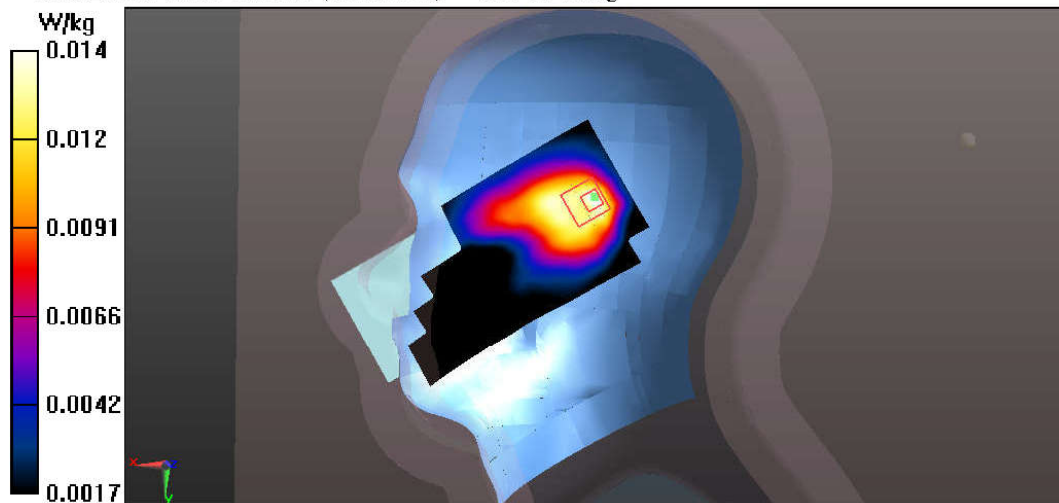
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.732 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0190 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00958 W/kg

Maximum value of SAR (measured) = 0.0141 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

CH20850(2510MHz Back)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2510$ MHz, $\sigma = 2.081$ S/m; $\epsilon_r = 51.384$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.37, 7.37, 7.37); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20850(2510MHz Back)/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.195 W/kg

Configuration/CH20850(2510MHz Back)/Zoom Scan (5x5x7)/Cube 0:

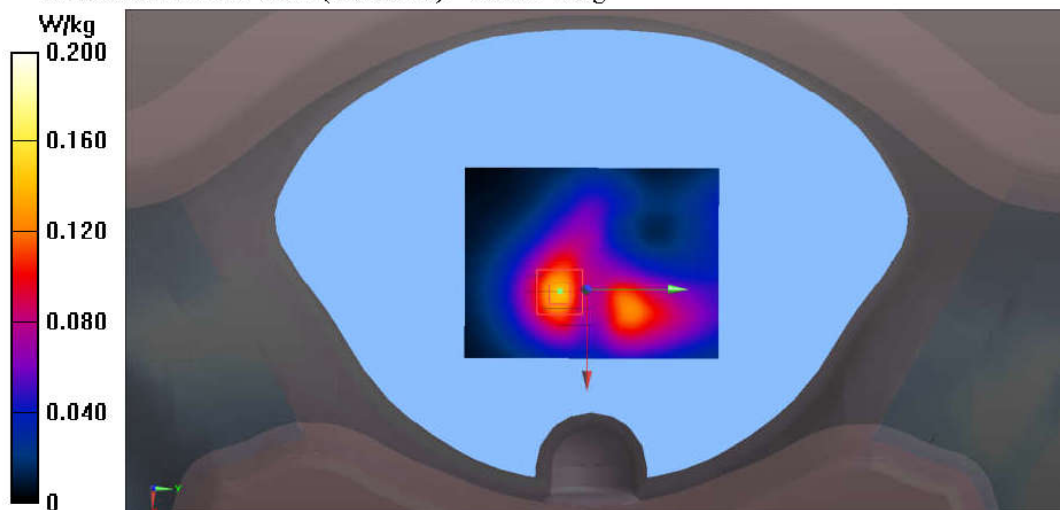
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.100 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.200 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

CH20850(2510MHz Bottom)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2510$ MHz, $\sigma = 2.081$ S/m; $\epsilon_r = 51.384$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.37, 7.37, 7.37); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20850(2510MHz Bottom)/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.308 W/kg

Configuration/CH20850(2510MHz Bottom)/Zoom Scan (5x5x7)/Cube 0:

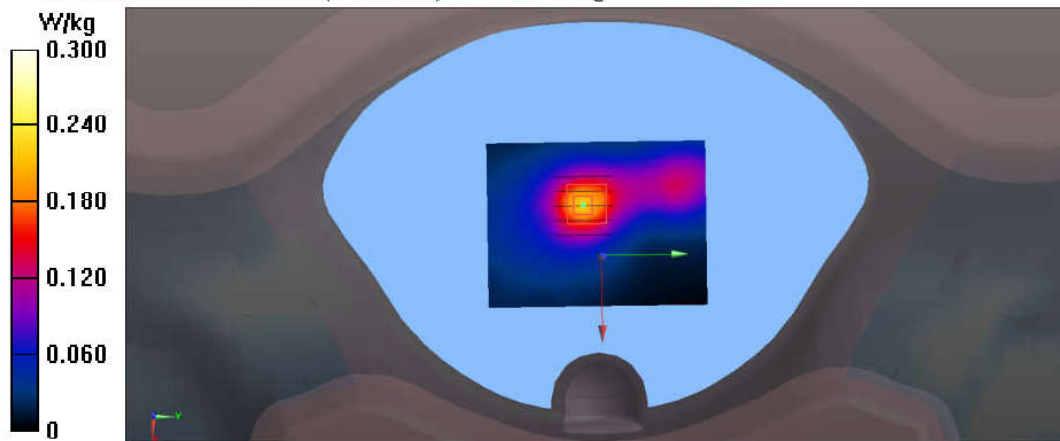
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.074 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.300 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

CH20850(2510MHz Front)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2510$ MHz, $\sigma = 2.081$ S/m; $\epsilon_r = 51.384$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.37, 7.37, 7.37); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20850(2510MHz Front)/Area Scan (61x81x1): Interpolated

grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.494 W/kg

Configuration/CH20850(2510MHz Front)/Zoom Scan (5x5x7)/Cube 0:

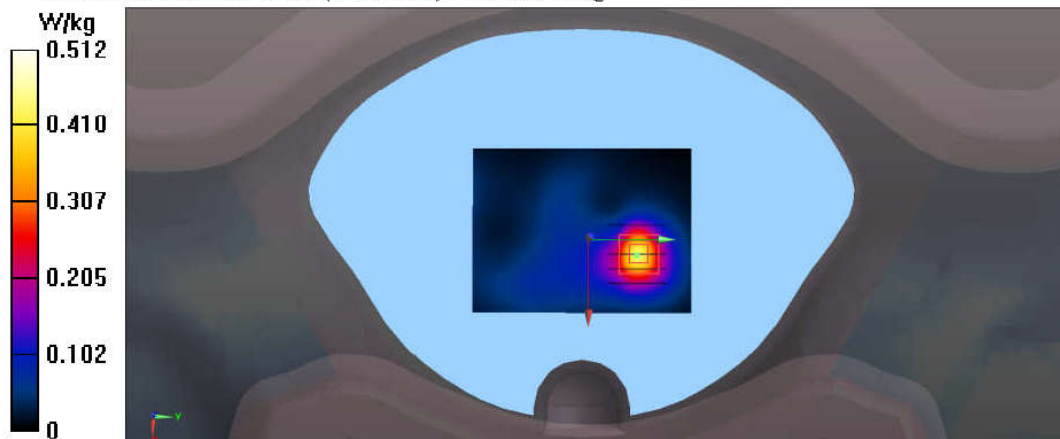
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.333 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.714 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.512 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

CH20850(2510MHz Right)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2510$ MHz, $\sigma = 2.081$ S/m; $\epsilon_r = 51.384$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.37, 7.37, 7.37); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20850(2510MHz Right)/Area Scan (61x81x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.597 W/kg

Configuration/CH20850(2510MHz Right)/Zoom Scan (5x5x7)/Cube 0:

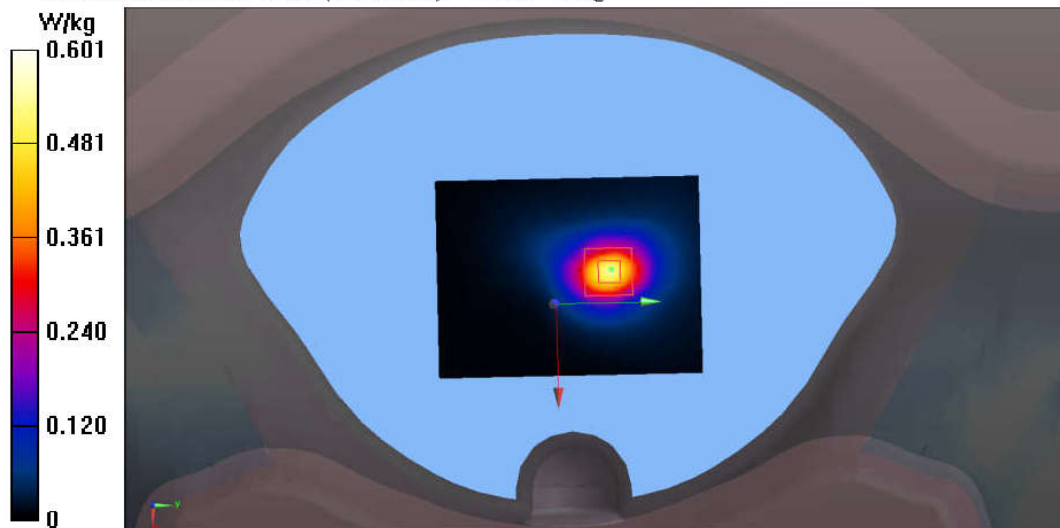
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.126 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.822 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 0.601 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

CH20850(2510MHz Top)

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2510$ MHz, $\sigma = 2.081$ S/m; $\epsilon_r = 51.384$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.37, 7.37, 7.37); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH20850(2510MHz Top)/Area Scan (61x81x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0282 W/kg

Configuration/CH20850(2510MHz Top)/Zoom Scan (5x5x7)/Cube 0:

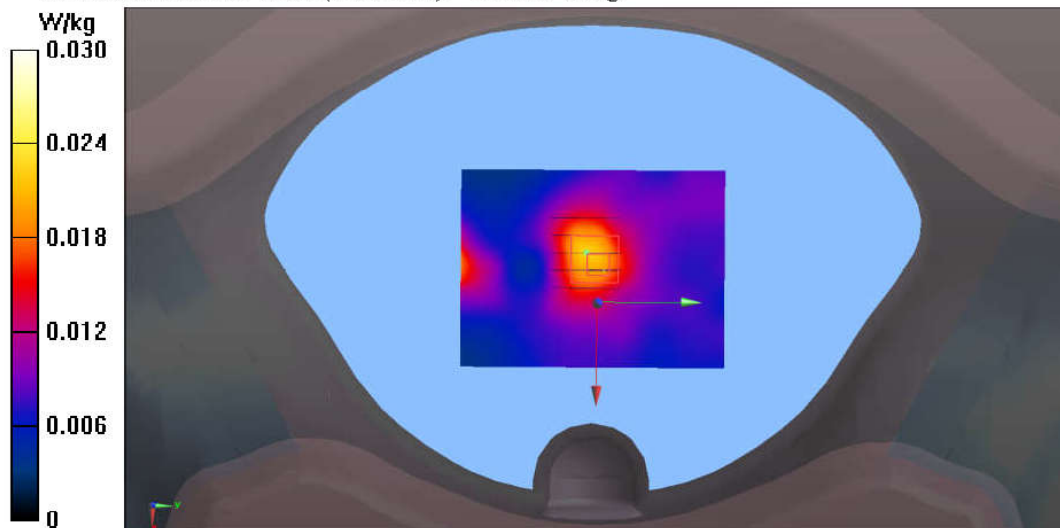
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.510 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0400 W/kg

SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.015 W/kg

Maximum value of SAR (measured) = 0.0300 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

Head 15 Degree Left CH20850(2510MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2500$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.481$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.4, 7.4, 7.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head 15 Degree Left CH20850(2510MHz)-Right/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.01 W/kg

Configuration/Head 15 Degree Left CH20850(2510MHz)-Right/Zoom Scan

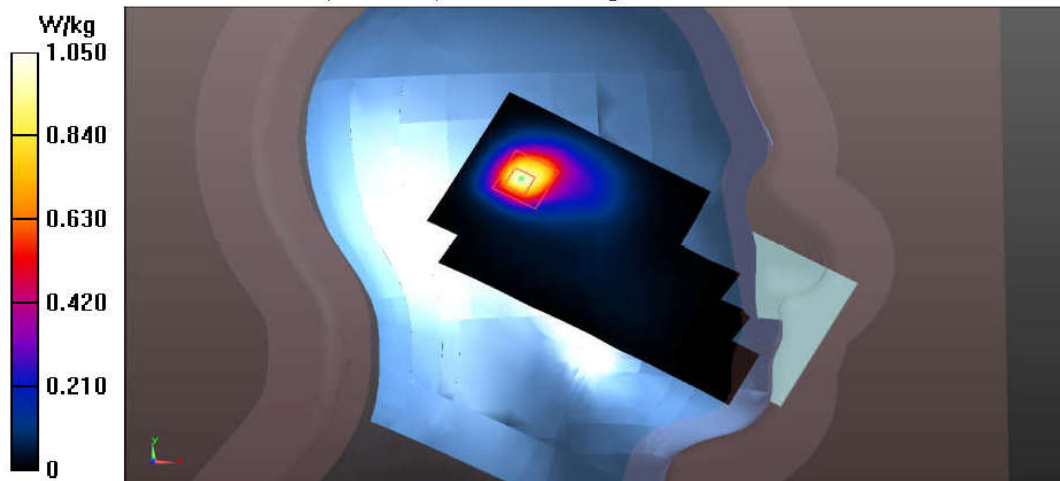
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.48 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 7.16 W/kg

SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 1.0509 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

Head 15 Degree Right CH20850(2510MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2500$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.481$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.4, 7.4, 7.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head 15 Degree Right CH20850(2510MHz)-Right/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.07 W/kg

Configuration/Head 15 Degree Right CH20850(2510MHz)-Right/Zoom Scan

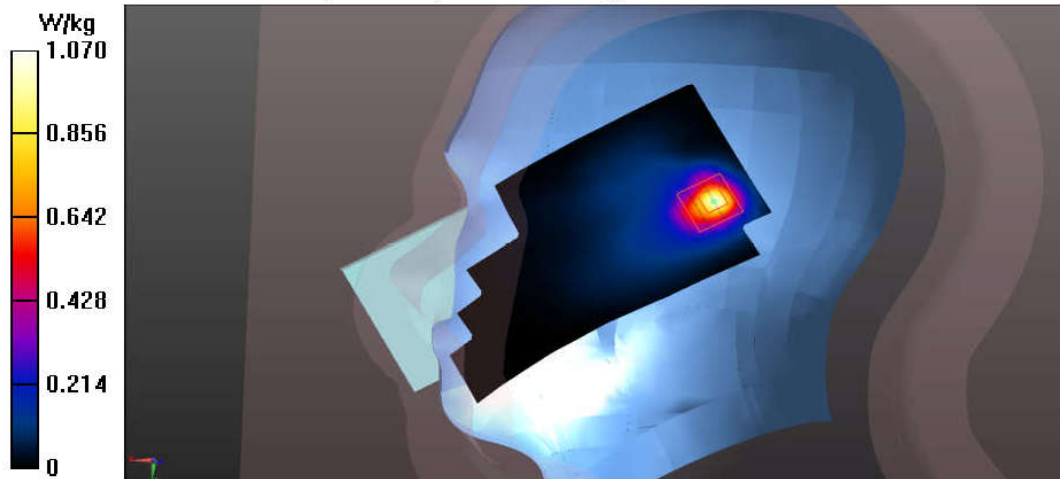
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.23 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.385 W/kg

Maximum value of SAR (measured) = 1.0703 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

Head Touch Left CH20850(2510MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2500$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.481$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.4, 7.4, 7.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head Touch Left CH20850(2510MHz)-Right/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.03 W/kg

Configuration/Head Touch Left CH20850(2510MHz)-Right/Zoom Scan

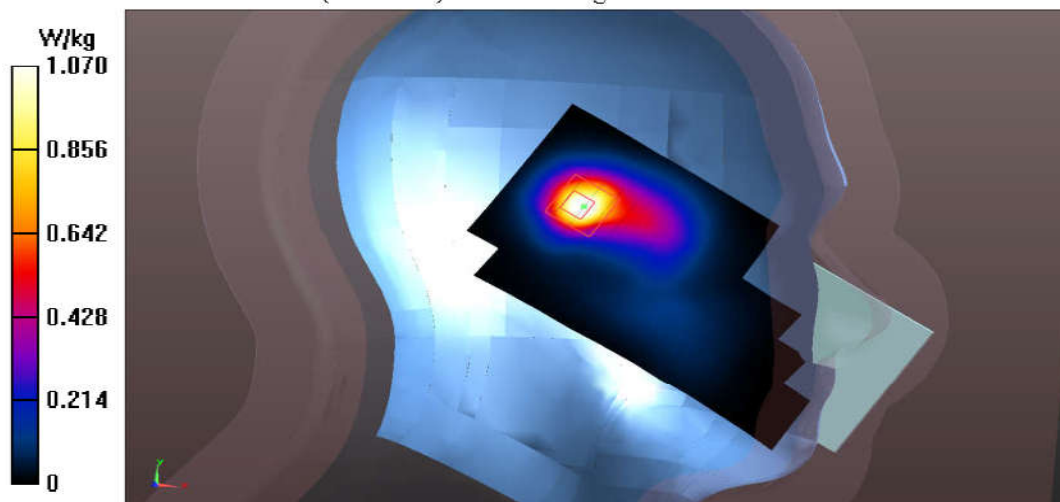
(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.33 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.138 W/kg

SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.338 W/kg

Maximum value of SAR (measured) = 1.071 W/kg



Test Laboratory: Audix SAR Lab

Date: 05/09/2019

Head Touch Right CH20850(2510MHz)-Right

EUT: COSMO M/N: COSMO COMMUNICATOR

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2500$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.481$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.4, 7.4, 7.4); Calibrated: 25/03/2019;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 19/03/2019
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head Touch Right CH20850(2510MHz)-Right/Area Scan

(121x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.11 W/kg

Configuration/Head Touch Right CH20850(2510MHz)-Right/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.30 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.400 W/kg

Maximum value of SAR (measured) = 1.0501 W/kg

