

Appendix B. SAR Measurement Plots

Table of contents
GSM850 Head Second Antenna
GSM850 Body Second Antenna
UMTS Band V Head Second Antenna
UMTS Band V Body Second Antenna
LTE Band V Head Second Antenna
LTE Band V Body Second Antenna
LTE Band XII Head Second Antenna
LTE Band XII Body Second Antenna
LTE Band XVII Head Second Antenna
LTE Band XVII Body Second Antenna
GSM850 Head Main Antenna
GSM850 Body Main Antenna
GSM1900 Head Main Antenna
GSM1900 Body Main Antenna
UMTS Band II Head Main Antenna
UMTS Band II Body Main Antenna
UMTS Band IV Head Main Antenna
UMTS Band IV Body Main Antenna
UMTS Band V Head Main Antenna
UMTS Band V Body Main Antenna
LTE Band II Head Main Antenna
LTE Band II Body Main Antenna
LTE Band IV Head Main Antenna
LTE Band IV Body Main Antenna



LTE Band V Head Main Antenna
LTE Band V Body Main Antenna
LTE Band VII Head Main Antenna
LTE Band VII Body Main Antenna
LTE Band XII Head Main Antenna
LTE Band XII Body Main Antenna
LTE Band XVII Head Main Antenna
LTE Band XVII Body Main Antenna
WiFi 2.4G Head
WiFi 2.4G Body
WiFi 5G Head
WiFi 5G Body

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM850 190CH Right touch-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 40.698$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.50 W/kg

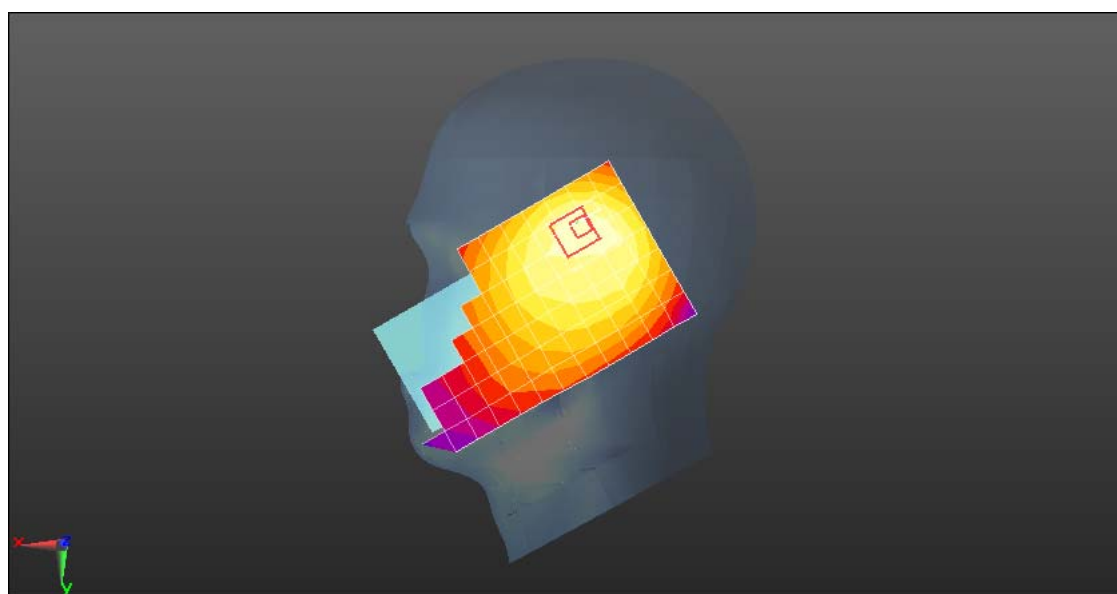
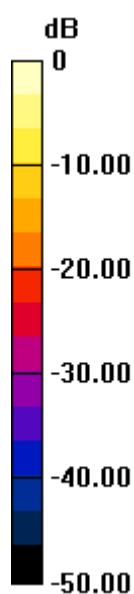
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 25.80 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.571 W/kg

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM850 190CH Front Side 15mm with Battery 3-Second Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 55.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.314 W/kg

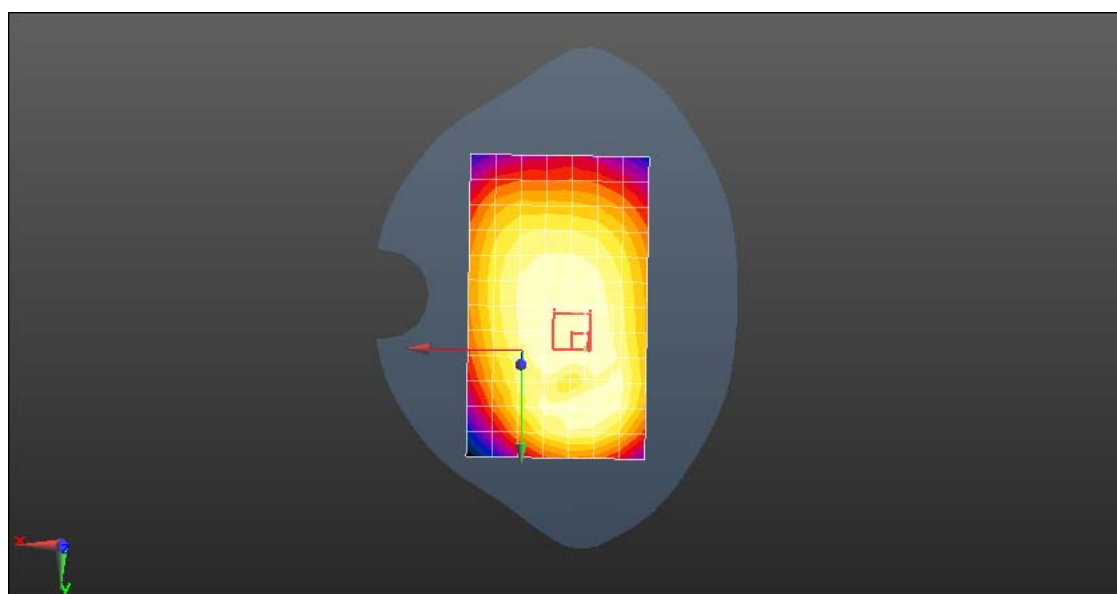
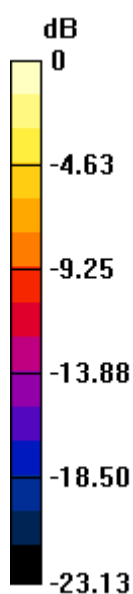
Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.65 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.214 W/kg

Maximum value of SAR (measured) = 0.313 W/kg



0 dB = 0.314 W/kg = -5.03 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM850 GPRS 2TS 190CH Front Side 10mm-Second Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.10015

Medium parameters used: $f = 837$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 55.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.559 W/kg

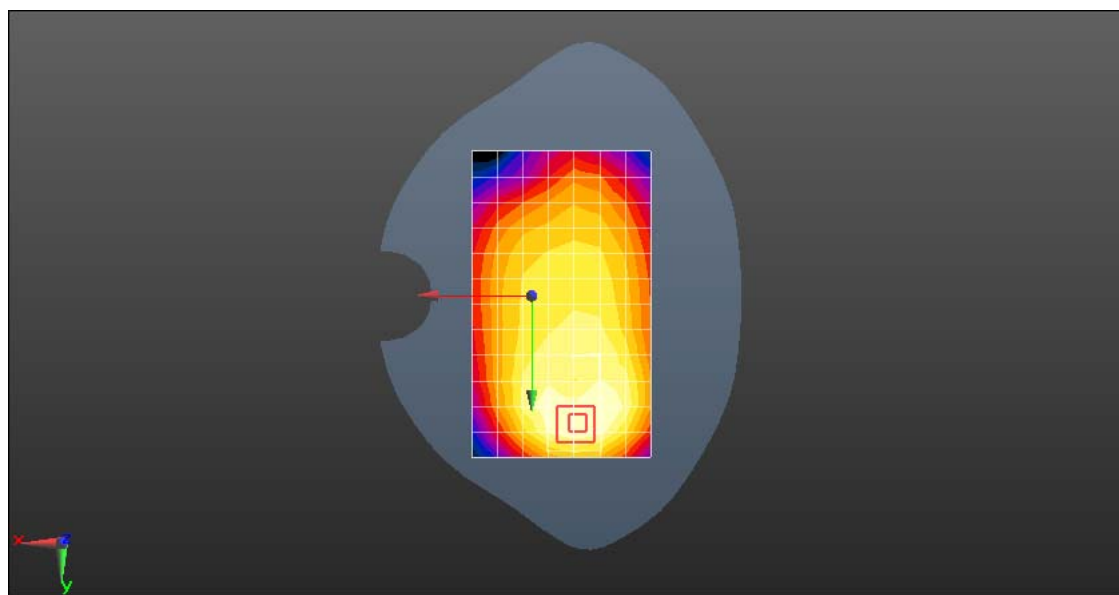
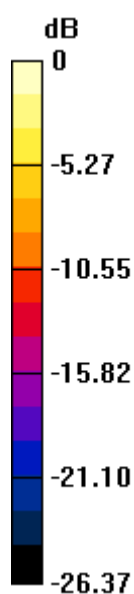
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.77 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.548 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band V 4182CH Right touch-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 40.702$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ζ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x7x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.34 W/kg

Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

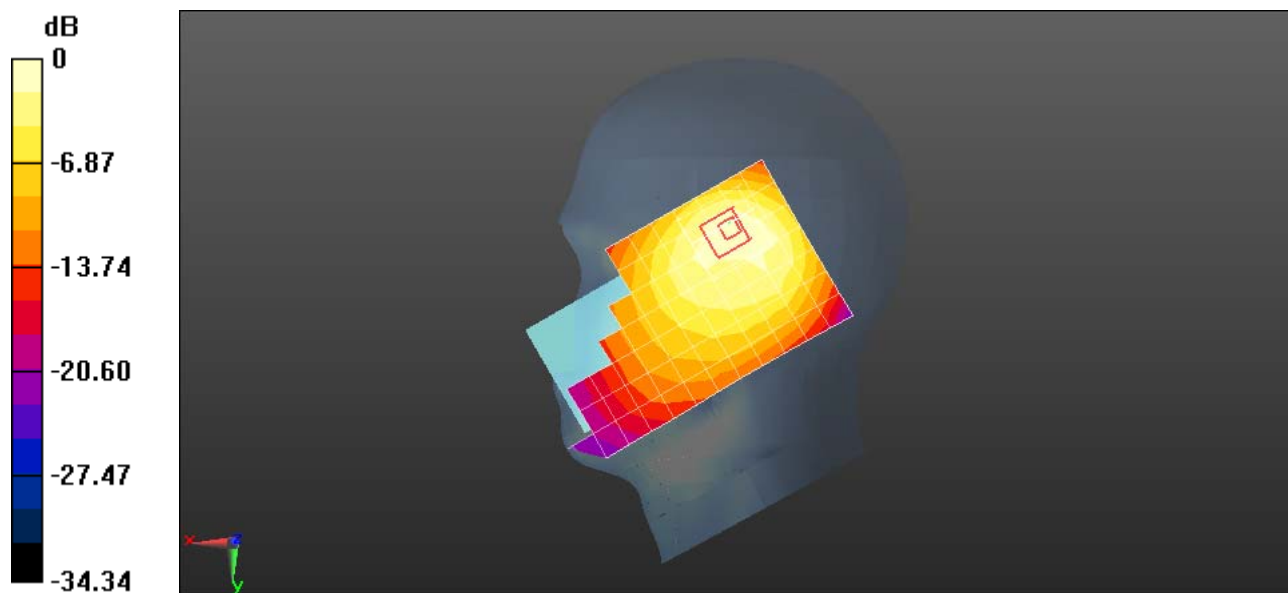
Reference Value = 26.04 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.572 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band V 4182CH Front Side 15mm with Battery 2-Second Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 55.638$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.215 W/kg

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

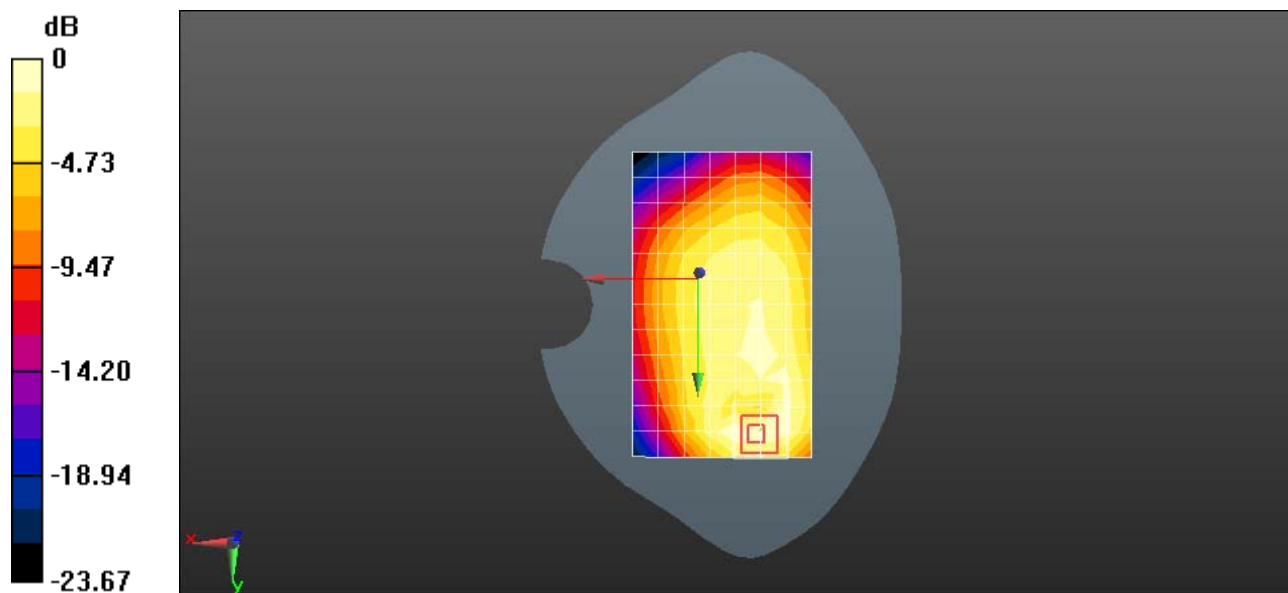
Reference Value = 12.03 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.106 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.215 W/kg = -6.68 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band V 4182CH Front Side 10mm with Battery 2-Second Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 55.638$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.364 W/kg

Configuration/Body/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

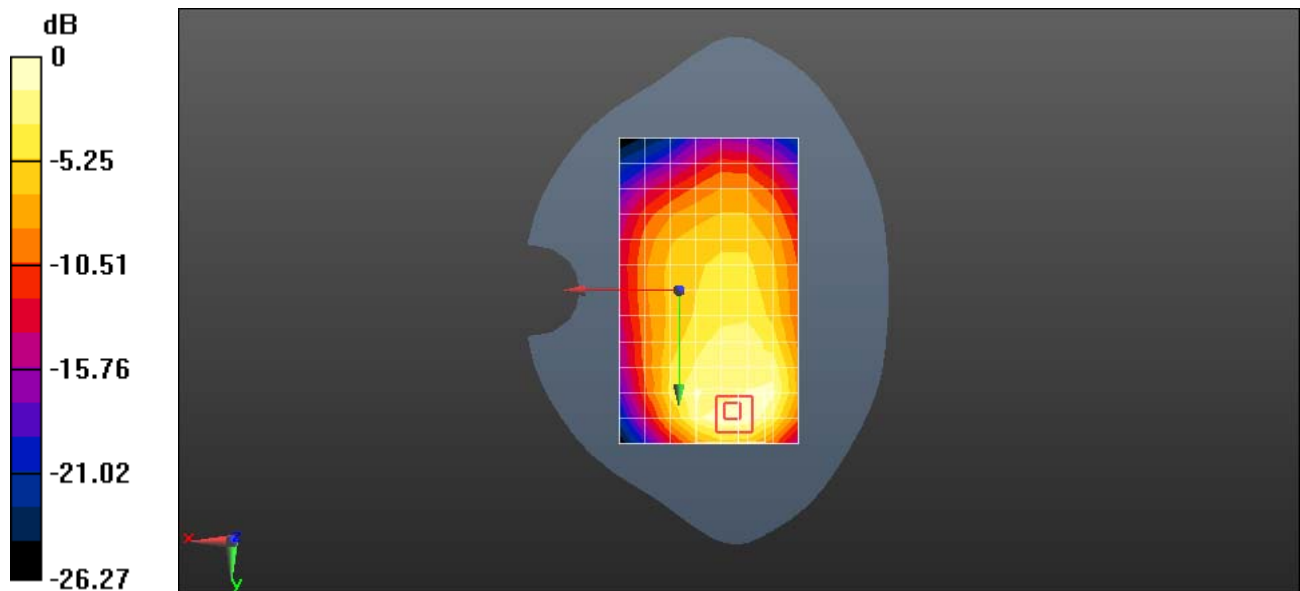
Reference Value = 11.17 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.186 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.364 W/kg = -4.39 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band V 10M QPSK 1RB 25 offset 20450CH Right touch-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 42.523$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.31 W/kg

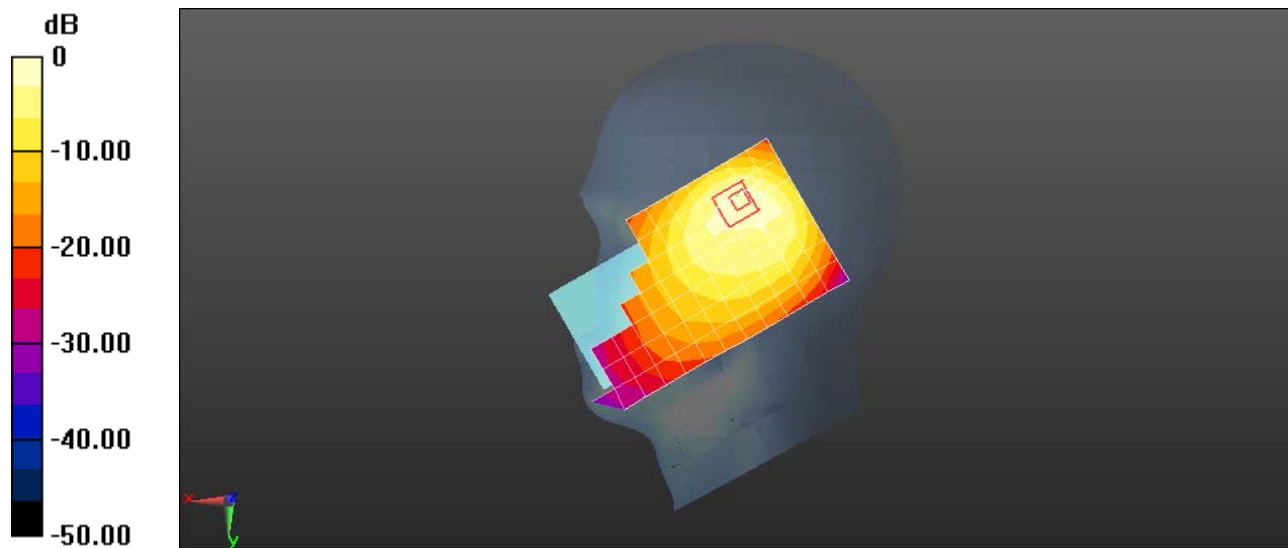
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 24.22 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.71 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.541 W/kg

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band V 10M QPSK 1RB 25 offset 20450CH Front Side 15mm with Battery 3-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 55.802$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.190 W/kg

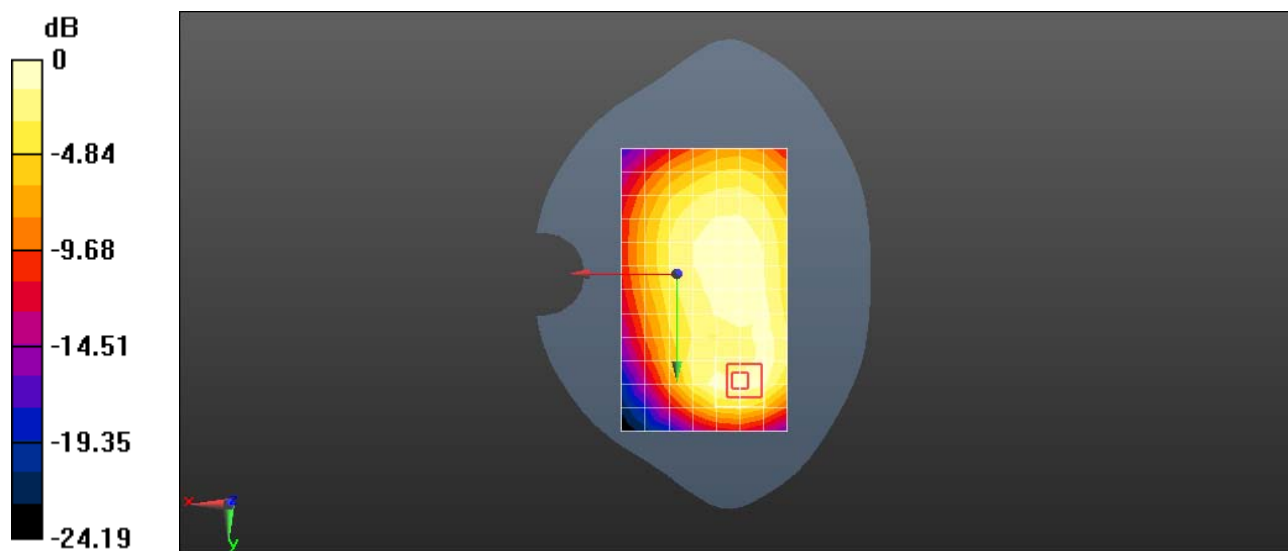
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.26 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.095 W/kg

Maximum value of SAR (measured) = 0.188 W/kg



0 dB = 0.190 W/kg = -7.21 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band V 10M QPSK 1RB 25 offset 20450CH Front Side 10mm with Battery 3-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 55.802$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.368 W/kg

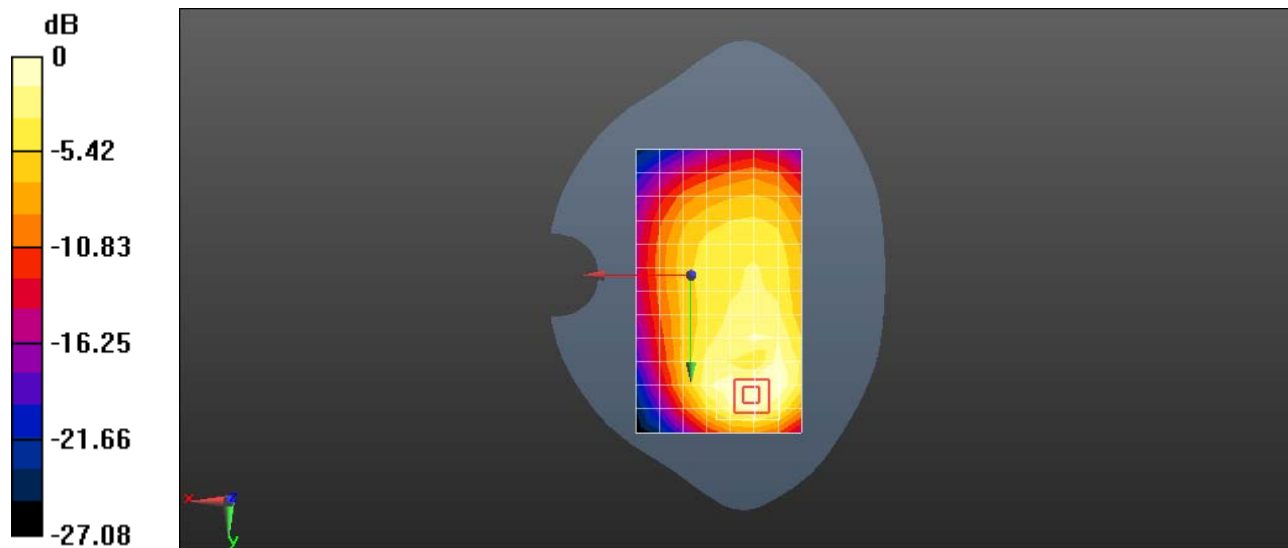
Configuration/Body/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.42 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.414 W/kg



0 dB = 0.368 W/kg = -4.34 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XII 10M QPSK 1RB 25 offset 23130CH Right touch-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.866$ S/m; $\epsilon_r = 42.364$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.52, 6.52, 6.52); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

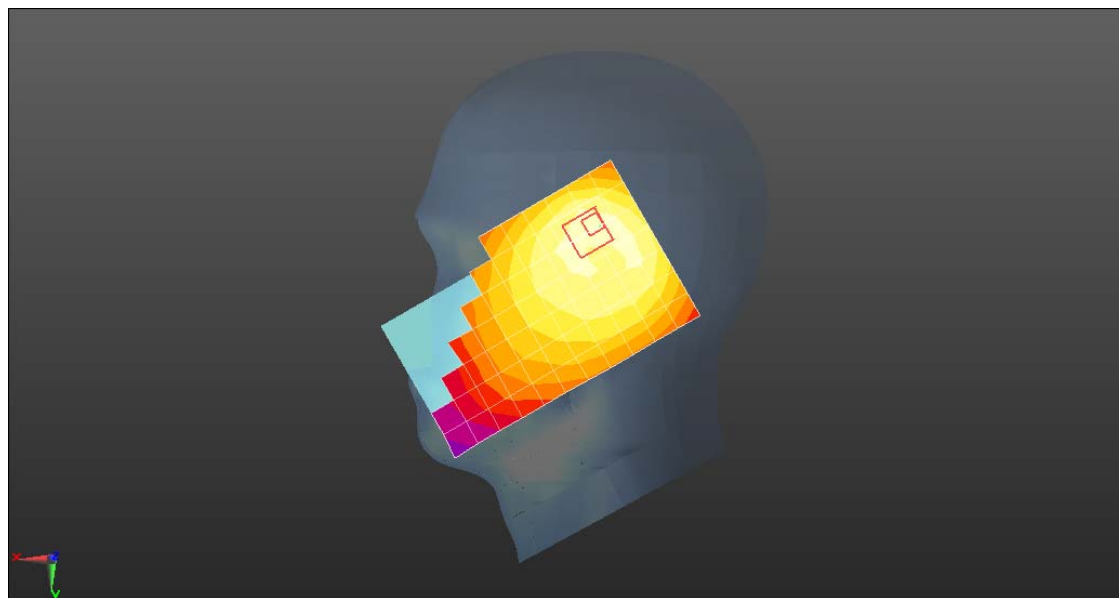
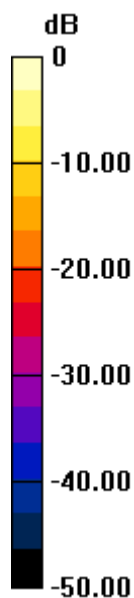
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 21.14 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.462 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XII 10M QPSK 1RB 25 offset 23130CH Front Side 15mm-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 55.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.253 W/kg

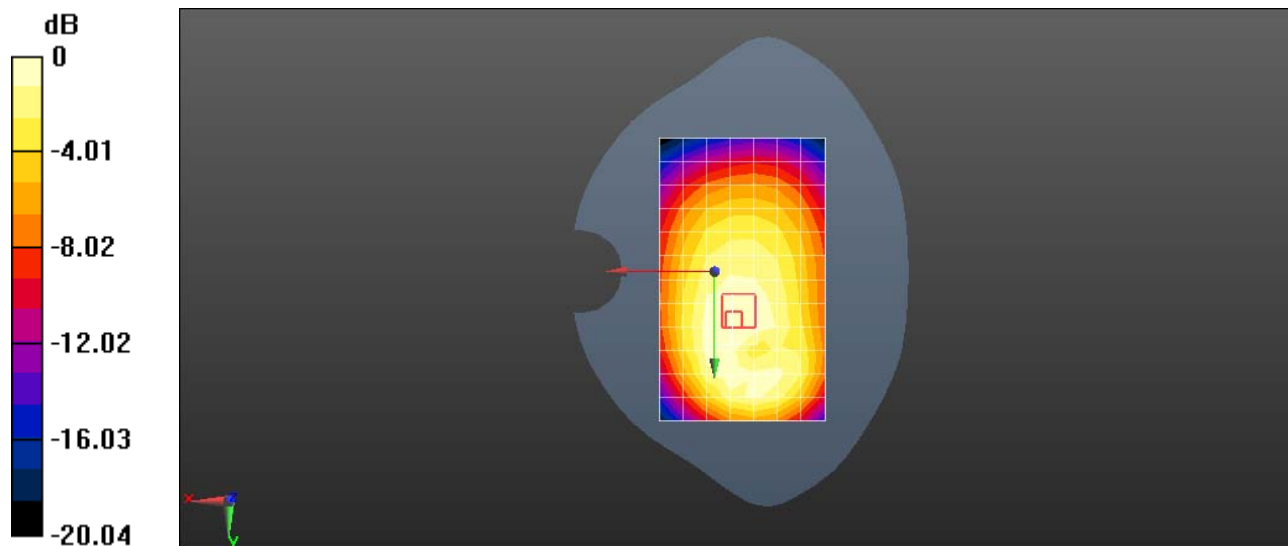
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.47 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XII 10M QPSK 1RB 25 offset 23130CH Front Side 10mm-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 55.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.446 W/kg

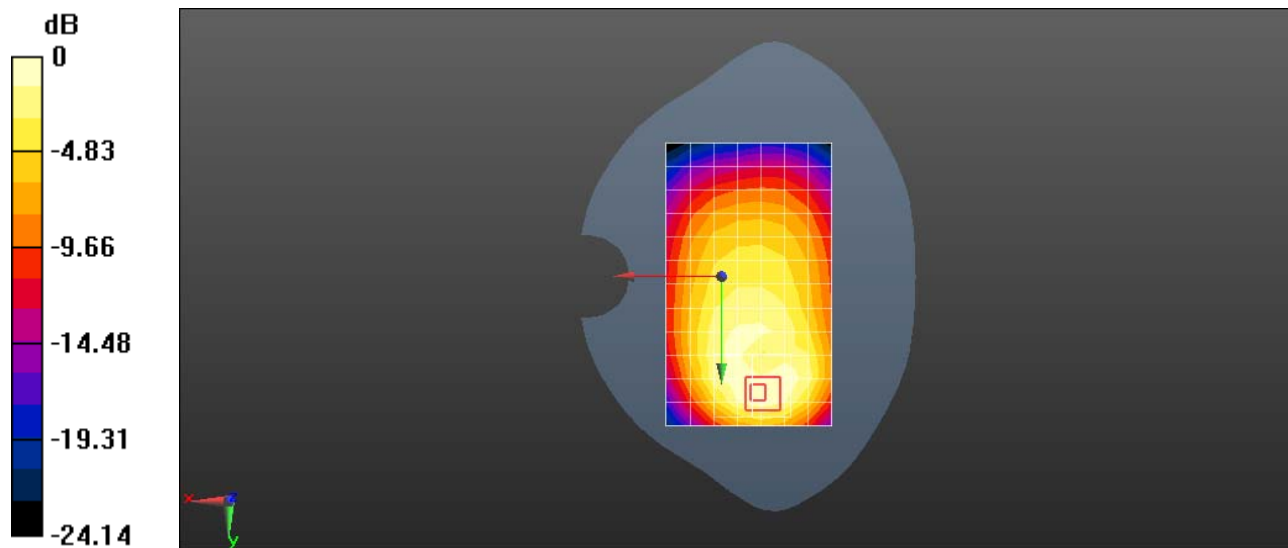
Configuration/Body/Zoom Scan (7x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.99 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.234 W/kg

Maximum value of SAR (measured) = 0.501 W/kg



0 dB = 0.446 W/kg = -3.51 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XVII 10M QPSK 25RB 13 offset 23800CH Right touch-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.866$ S/m; $\epsilon_r = 42.364$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

Probe: ES3DV3 - SN3168; ConvF(6.52, 6.52, 6.52); Calibrated: 2015-9-28;

Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

Electronics: DAE4 Sn851; Calibrated: 2015-7-20

Phantom: SAM1; Type: SAM; Serial: TP-1475

DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

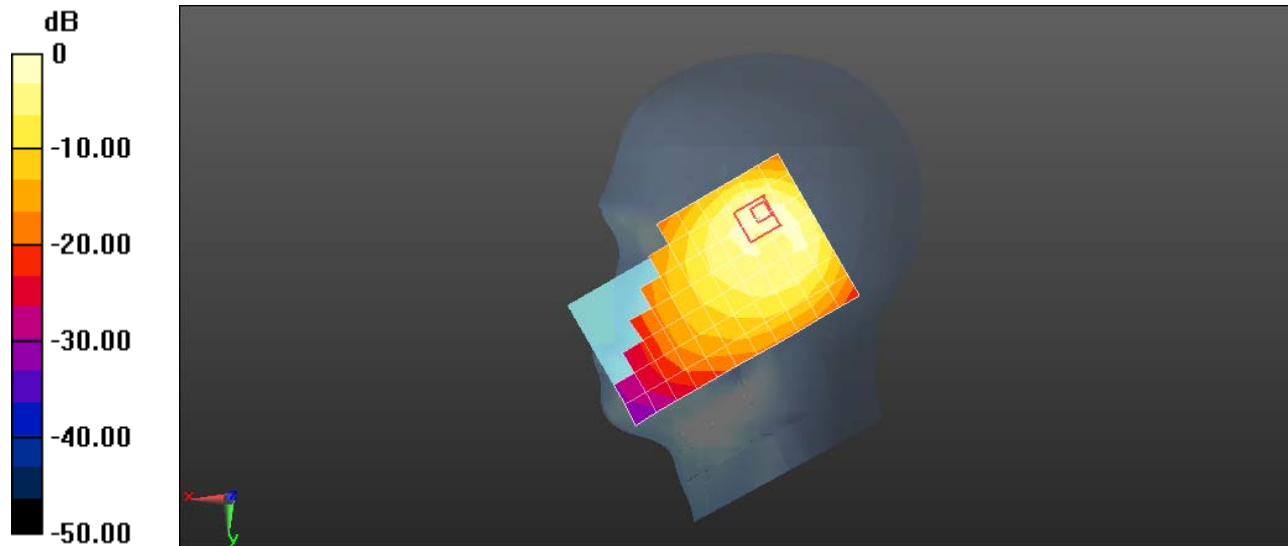
Maximum value of SAR (measured) = 1.37 W/kg

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

Reference Value = 22.78 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.589 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XVII 10M QPSK 25RB 13 offset 23800CH Front Side 15mm with Battery 3-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 55.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.253 W/kg

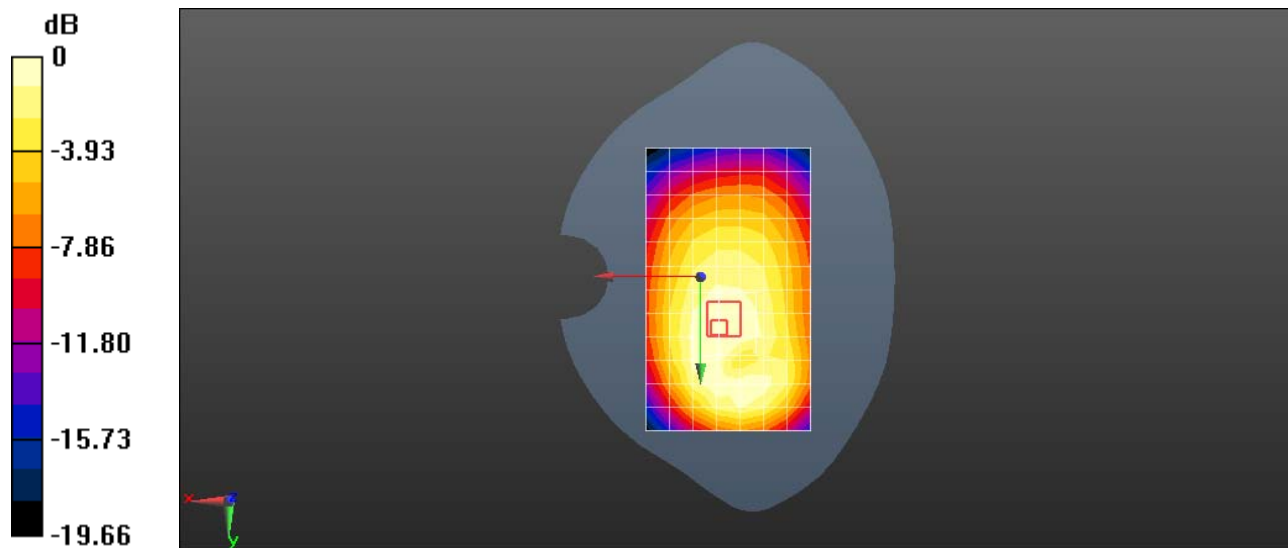
Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 13.71 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.274 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XVII 10M QPSK 25RB 13 offset 23800CH Front Side 10mm with Battery 3-Second Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 55.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.461 W/kg

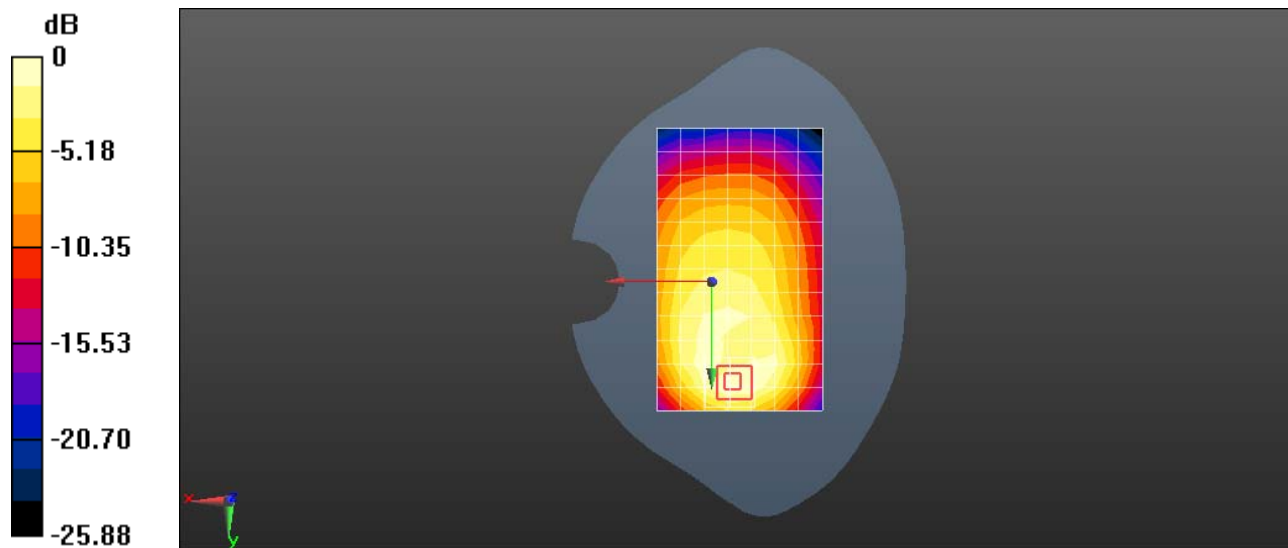
Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.64 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.457 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM850 190CH Right touch-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 40.646$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ζ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.240 W/kg

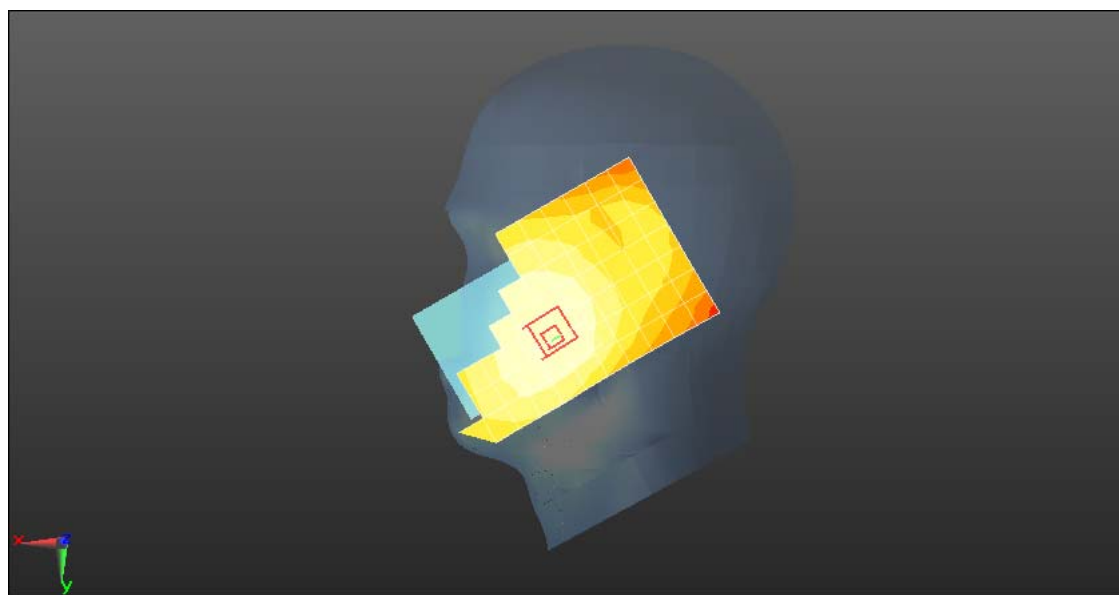
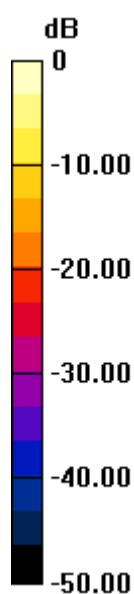
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.789 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.174 W/kg

Maximum value of SAR (measured) = 0.251 W/kg



0 dB = 0.240 W/kg = -6.20 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM850 190CH Back Side 15mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 55.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.394 W/kg

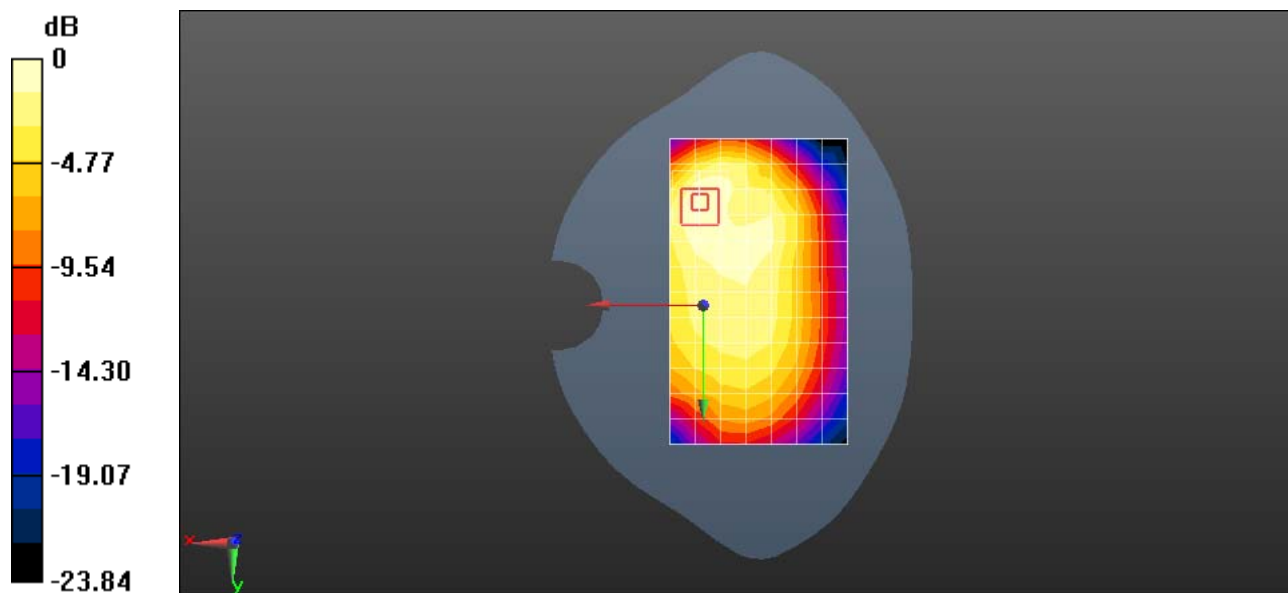
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.60 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.394 W/kg = -4.05 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM850 GPRS 2TS 190CH Back Side 10mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.10015

Medium parameters used: $f = 837$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 55.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.484 W/kg

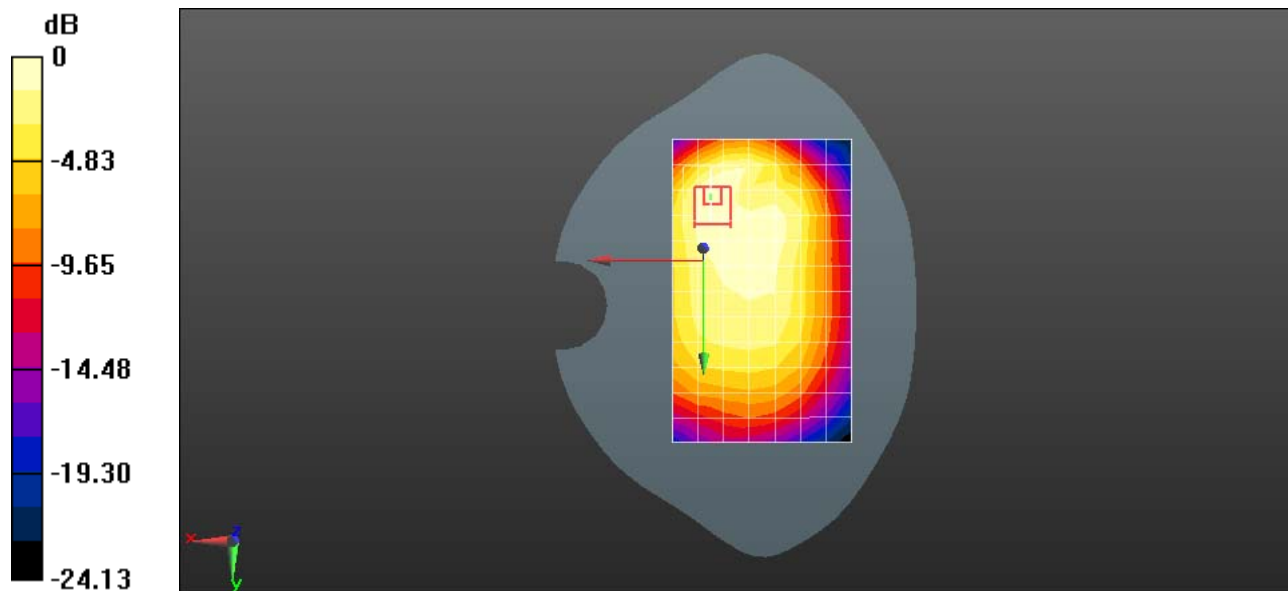
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.90 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 0.522 W/kg



0 dB = 0.484 W/kg = -3.15 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM1900 810CH Left touch-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.416$ S/m; $\epsilon_r = 39.515$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ⌄ Probe: EX3DV4 - SN3744; ConvF(7.54, 7.54, 7.54); Calibrated: 2015-7-24;
- ⌄ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌄ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌄ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌄ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.184 W/kg

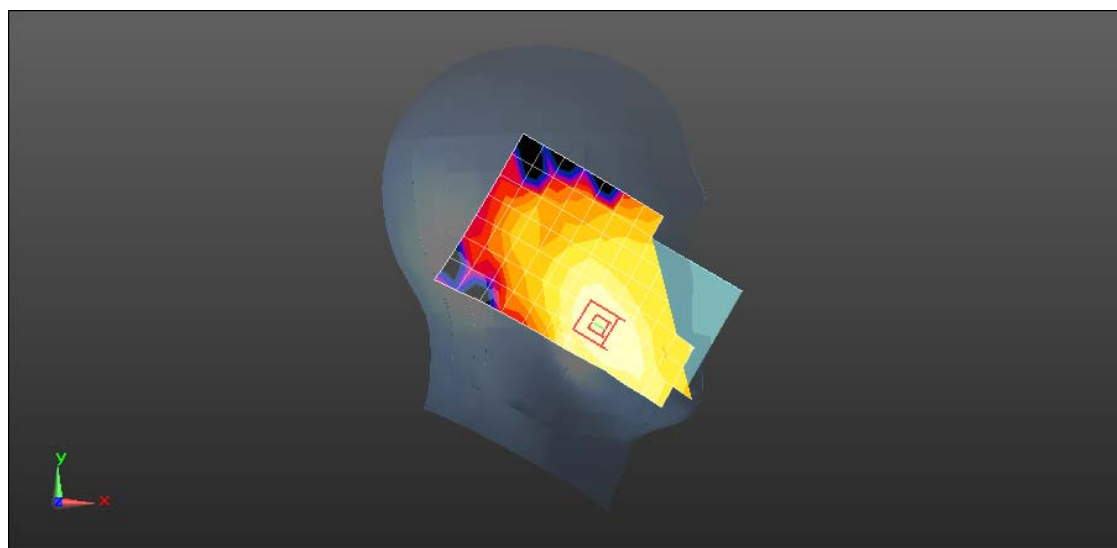
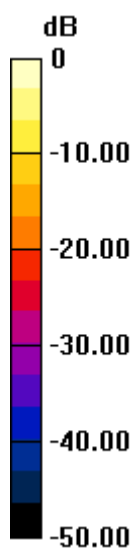
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.179 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.098 W/kg

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



0 dB = 0.184 W/kg = -7.35 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM1900 661CH Front side 15mm with Battery 2-Main Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.483$ S/m; $\epsilon_r = 52.016$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ζ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ζ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ζ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.569 W/kg

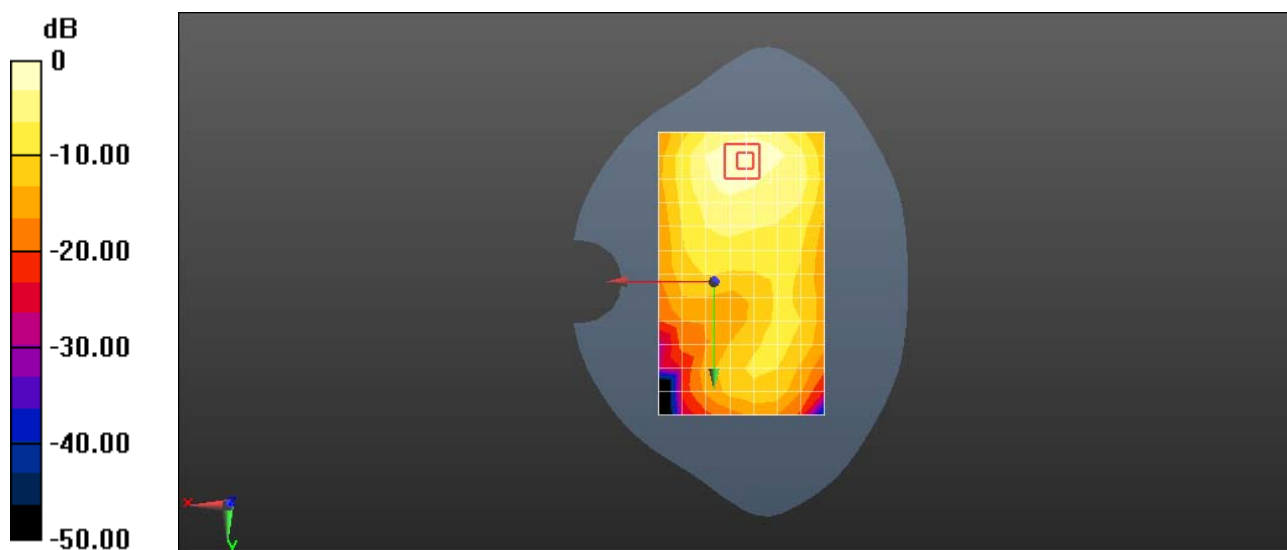
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.751 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.258 W/kg

Maximum value of SAR (measured) = 0.610 W/kg



0 dB = 0.569 W/kg = -2.45 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 GSM1900 GPRS 2TS 661CH Bottom side 10mm with Battery 2-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.10015

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.483$ S/m; $\epsilon_r = 52.016$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;

ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$

ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23

ε Phantom: SAM3; Type: SAM; Serial: TP-1597

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.49 W/kg

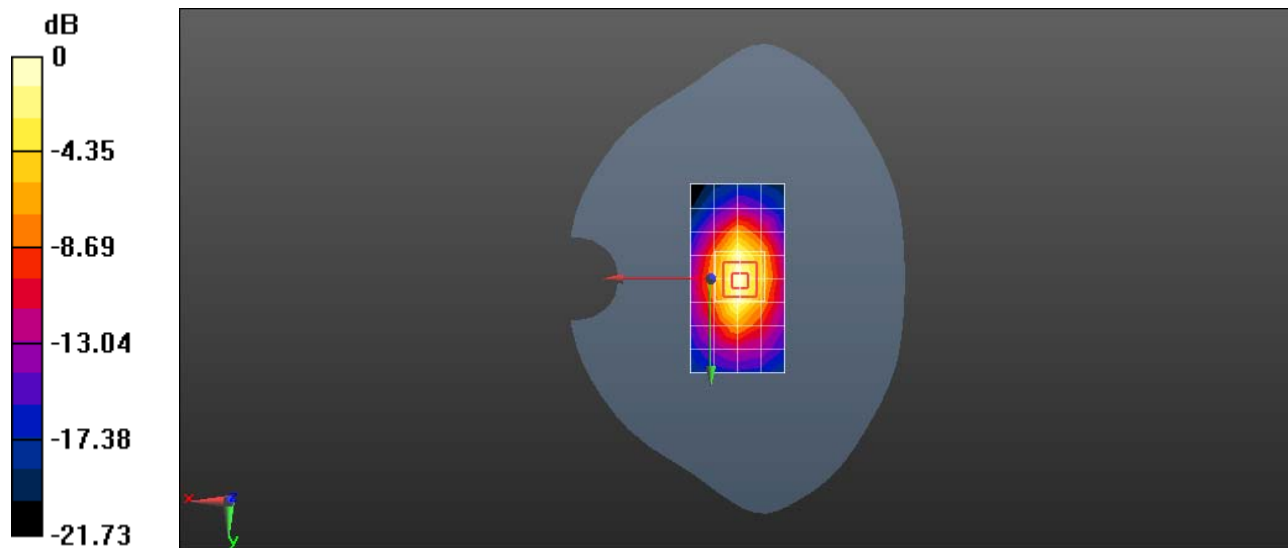
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.90 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.568 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band II 9262CH Left touch with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 39.756$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.54, 7.54, 7.54); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.414 W/kg

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

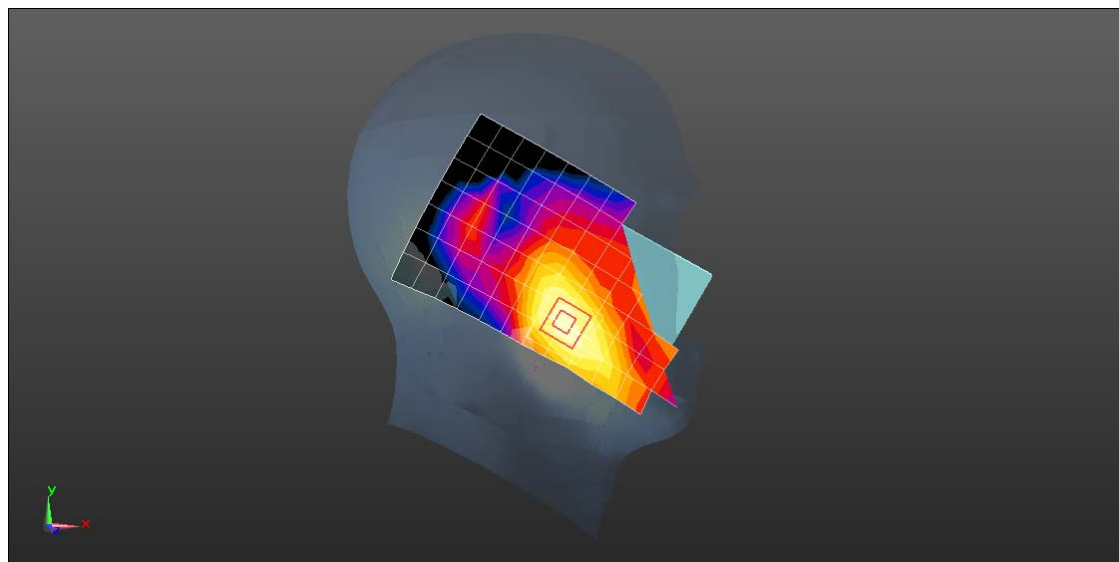
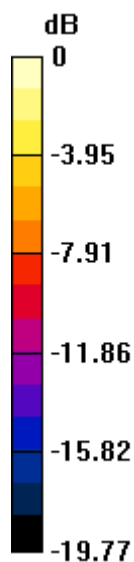
Reference Value = 6.271 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.227 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.515 W/kg



0 dB = 0.515 W/kg = -2.88 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band II 9538CH Back side 15mm with Battery 3-Main Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.507$ S/m; $\epsilon_r = 51.891$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ζ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ζ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ζ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.927 W/kg

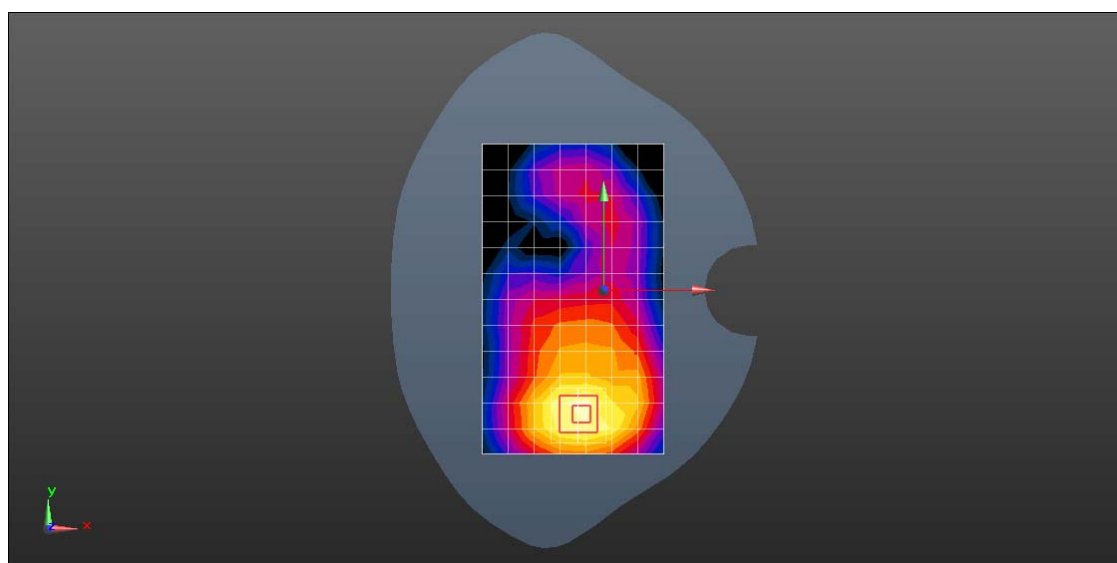
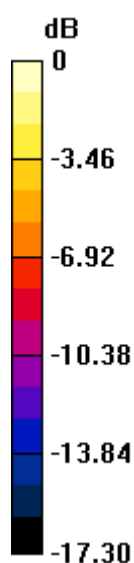
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.155 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.473 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.39 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band II 9400CH Bottom side 10mm with Battery 2-Main Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.483$ S/m; $\epsilon_r = 52.016$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (5x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

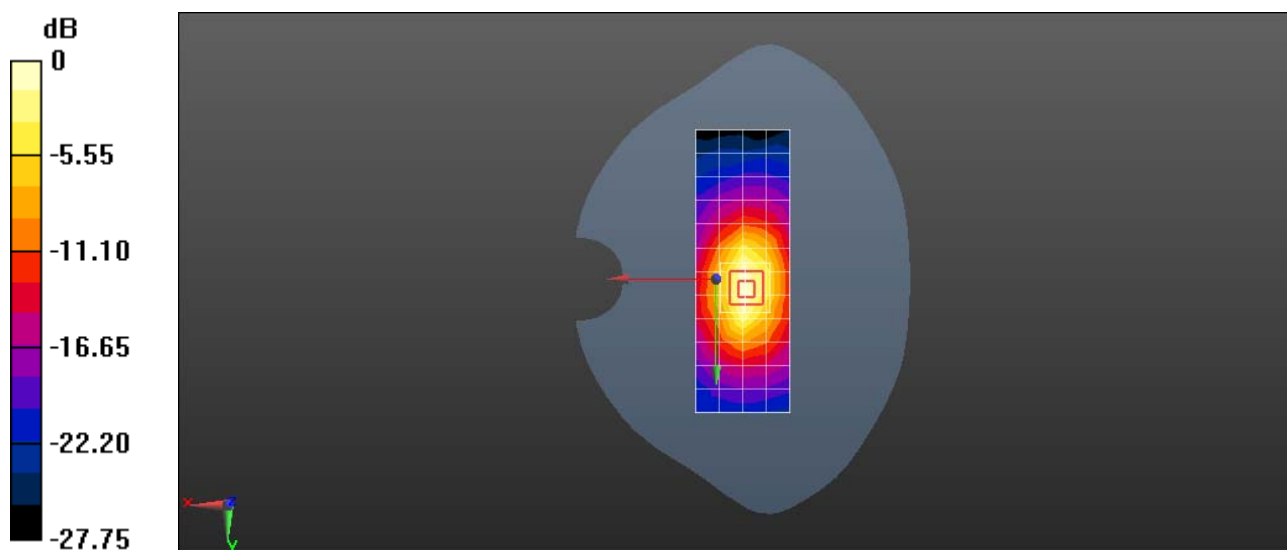
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 23.18 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.724 W/kg; SAR(10 g) = 0.387 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band IV 1312CH Left touch with Battery 2-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.332$ S/m; $\epsilon_r = 40.619$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ⌄ Probe: EX3DV4 - SN3744; ConvF(7.84, 7.84, 7.84); Calibrated: 2015-7-24;
- ⌄ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌄ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌄ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌄ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.432 W/kg

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

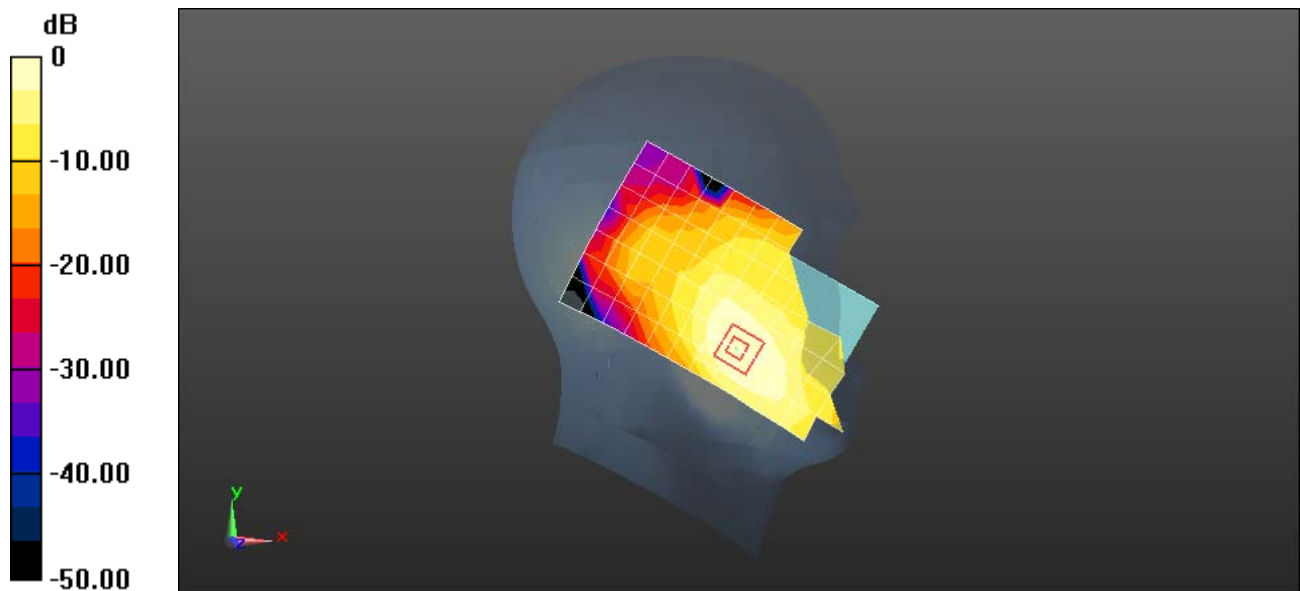
Reference Value = 6.254 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.225 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.468 W/kg



0 dB = 0.432 W/kg = -3.65 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band IV 14312CH Back Side 15mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 51.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(4.95, 4.95, 4.95); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.859 W/kg

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

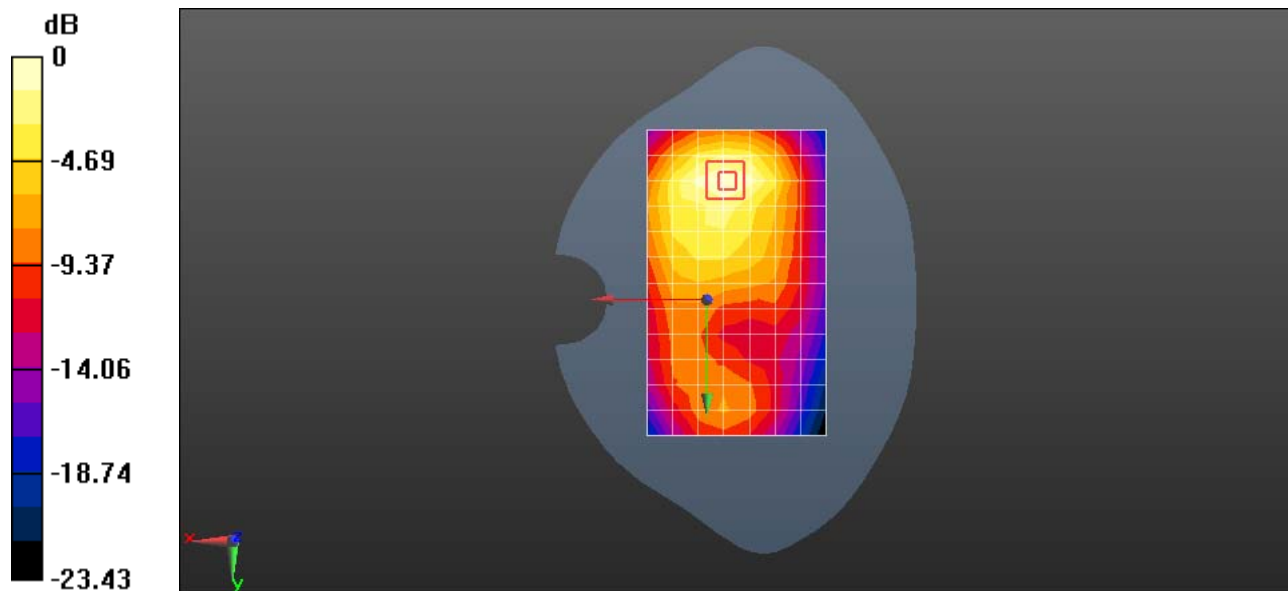
Reference Value = 8.846 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.724 W/kg; SAR(10 g) = 0.441 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.859 W/kg = -0.66 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band IV 1312CH Bottom Side 10mm with Battery 3-Main Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 51.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(4.95, 4.95, 4.95); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.964 W/kg

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

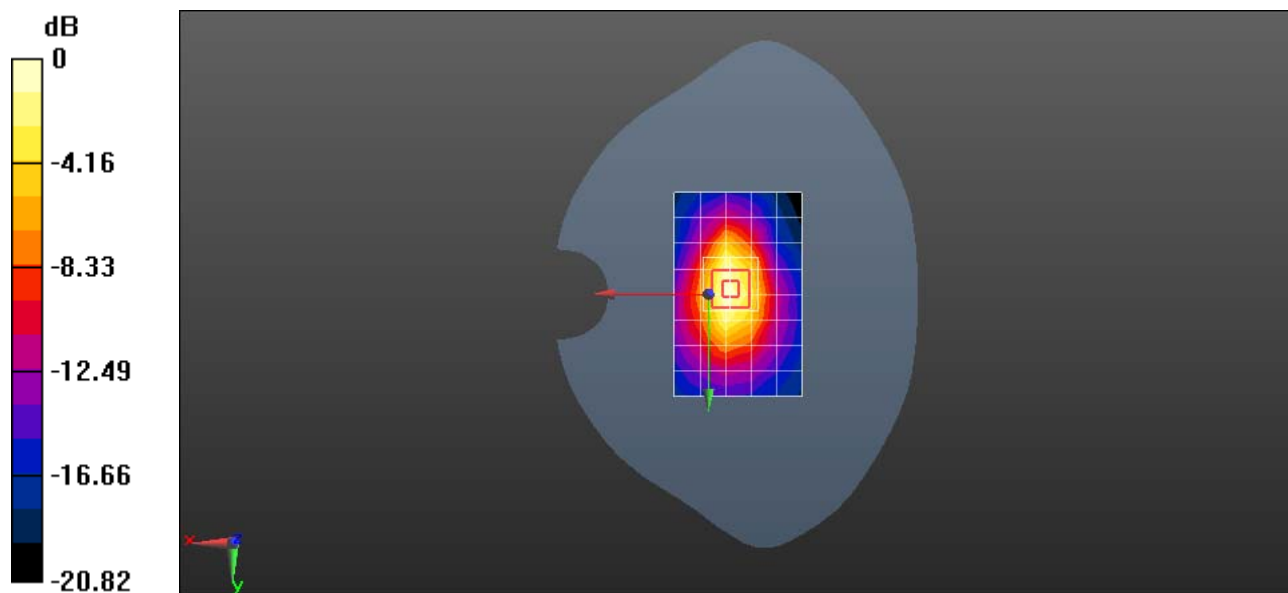
Reference Value = 26.47 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.850 W/kg; SAR(10 g) = 0.465 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 0.964 W/kg = -0.16 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band V 4132CH Right touch with Battery2-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 40.722$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ζ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.293 W/kg

Configuration/Head/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

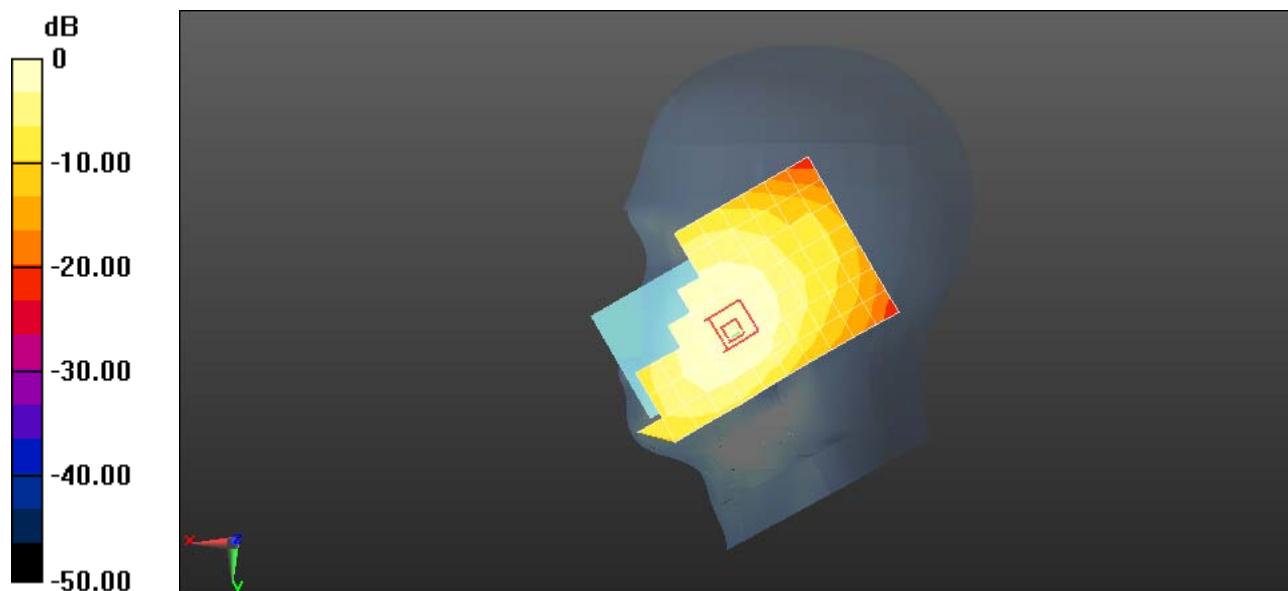
Reference Value = 6.953 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.344 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.211 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.299 W/kg



0 dB = 0.293 W/kg = -5.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band V 4182CH Back Side 15mm with Battery 3-Main Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 55.638$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.338 W/kg

Configuration/Body/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

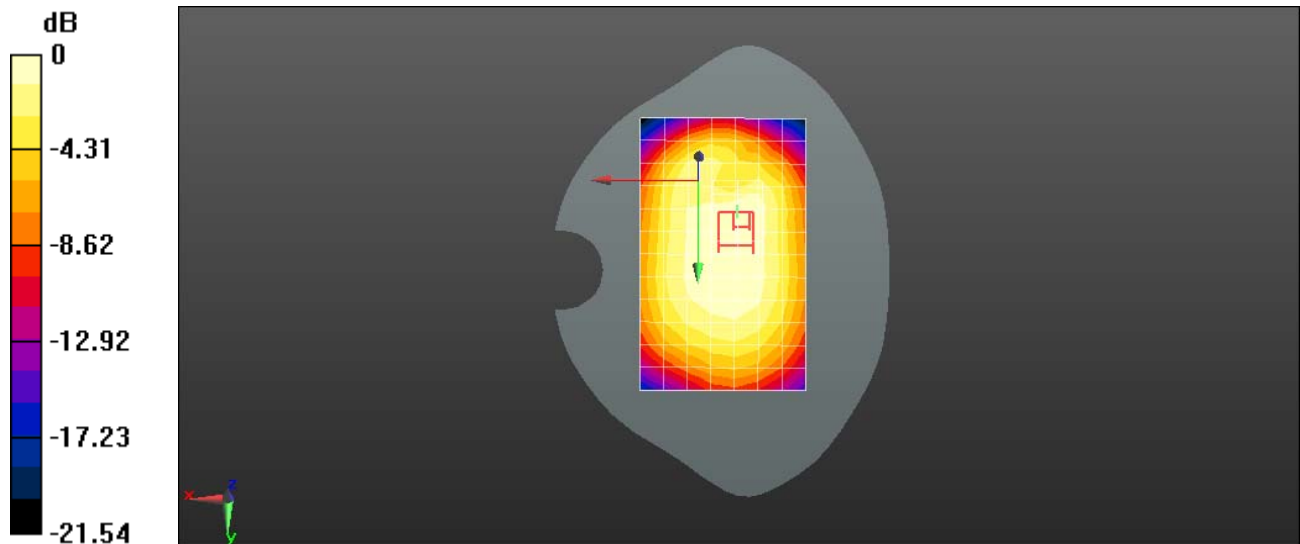
Reference Value = 18.85 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.396 W/kg

SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.233 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.337 W/kg



0 dB = 0.338 W/kg = -4.71 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 UMTS Band V 4182CH Back Side 10mm with Battery 2-Main Antenna**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 55.638$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.475 W/kg

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

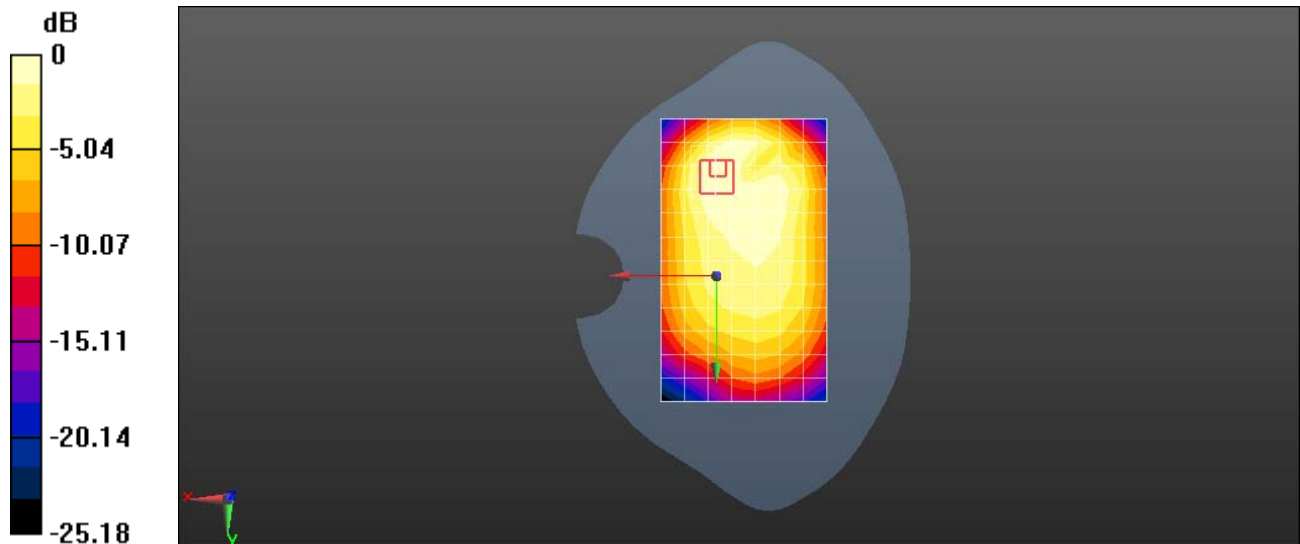
Reference Value = 18.15 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.799 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.276 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.565 W/kg



0 dB = 0.475 W/kg = -3.23 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band II 20M QPSK 1RB 99 offset 18900CH Left touch with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 39.649$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

ε Probe: EX3DV4 - SN3744; ConvF(7.54, 7.54, 7.54); Calibrated: 2015-7-24;

ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$

ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23

ε Phantom: SAM3; Type: SAM; Serial: TP-1597

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.701 W/kg

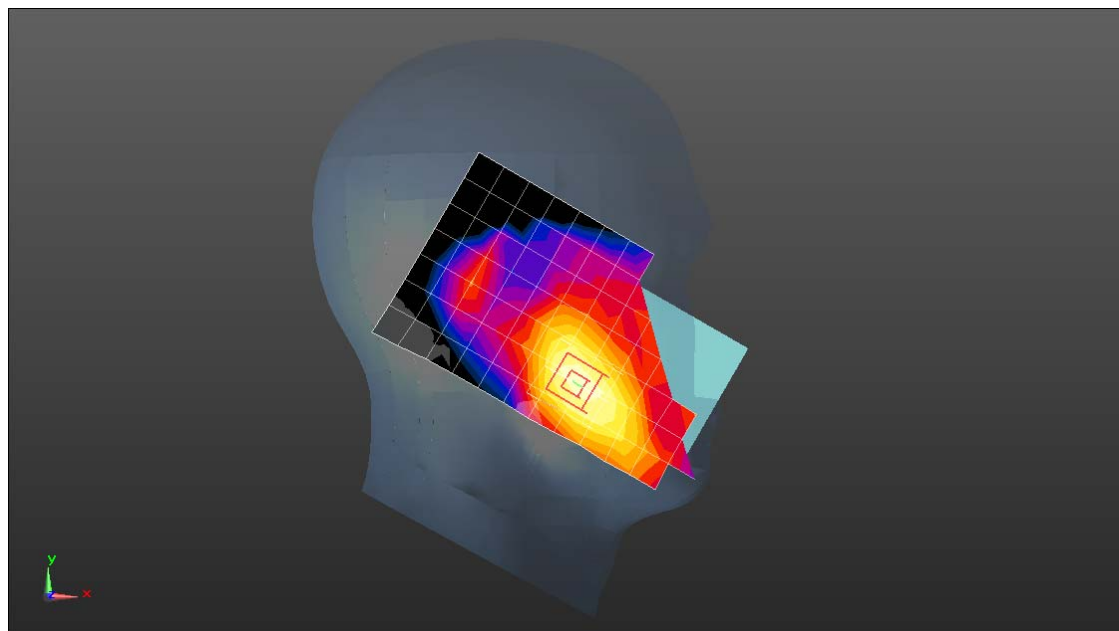
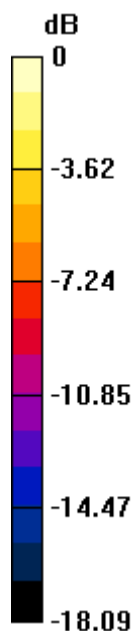
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.399 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.857 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.317 W/kg

Maximum value of SAR (measured) = 0.719 W/kg



0 dB = 0.719 W/kg = -1.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band II 20M QPSK 1RB 99 offset 18900CH Back side 15mm-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.483$ S/m; $\epsilon_r = 52.016$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.08 W/kg

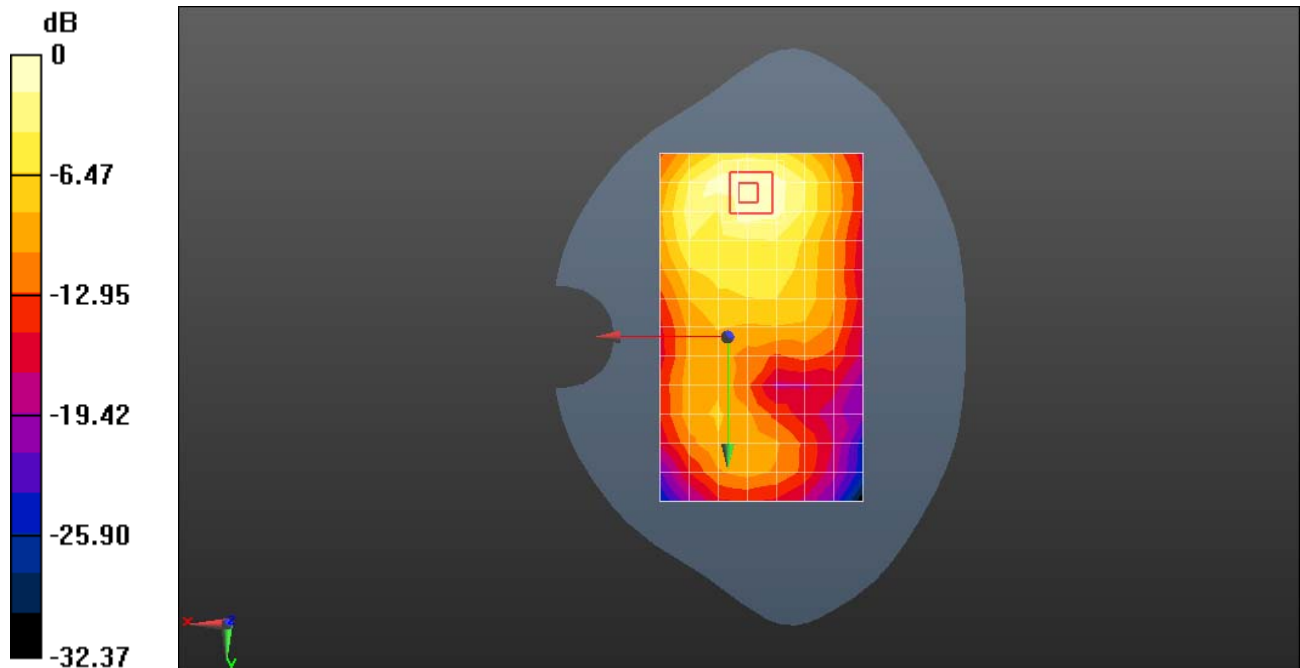
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.188 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.532 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band II 20M QPSK 1RB 99 offset 19100CH Bottom side 10mm with Battery 3-Main Antenna-Repeated

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.5$ S/m; $\epsilon_r = 51.963$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;

ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$

ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23

ε Phantom: SAM3; Type: SAM; Serial: TP-1597

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.48 W/kg

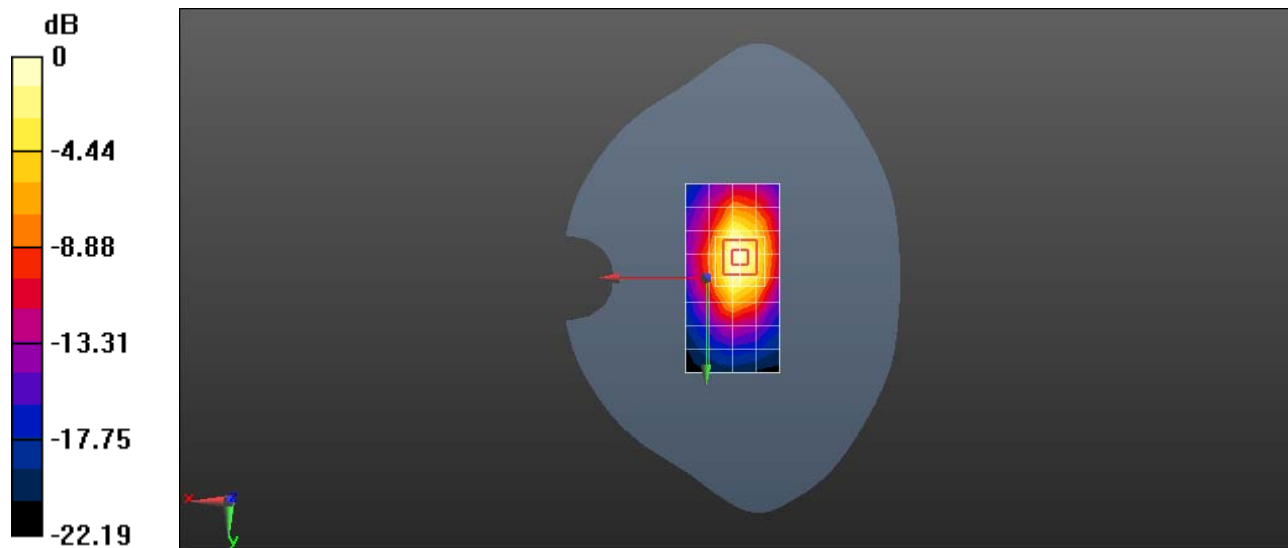
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 25.72 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.614 W/kg

Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band IV 20M QPSK 1RB 50 offset 20050CH Left touch-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.339$ S/m; $\epsilon_r = 40.585$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.84, 7.84, 7.84); Calibrated: 2015-7-24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.492 W/kg

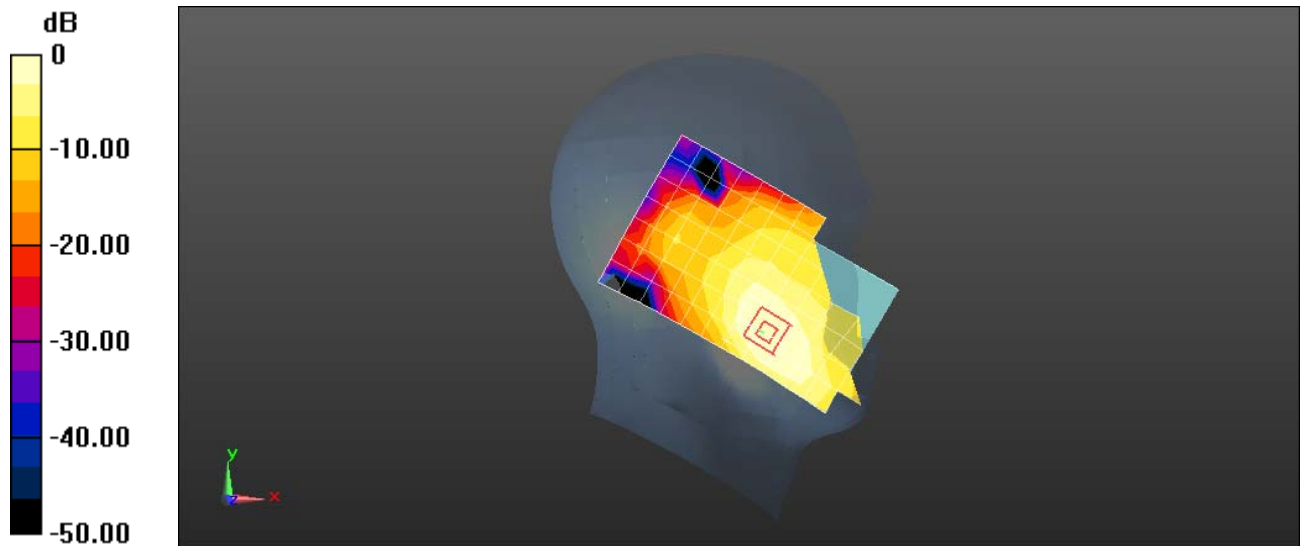
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.758 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.638 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.560 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band IV 20M QPSK 1RB 50 offset 20300CH Back Side 15mm with Battey 2-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 51.924$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(4.95, 4.95, 4.95); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.533 W/kg

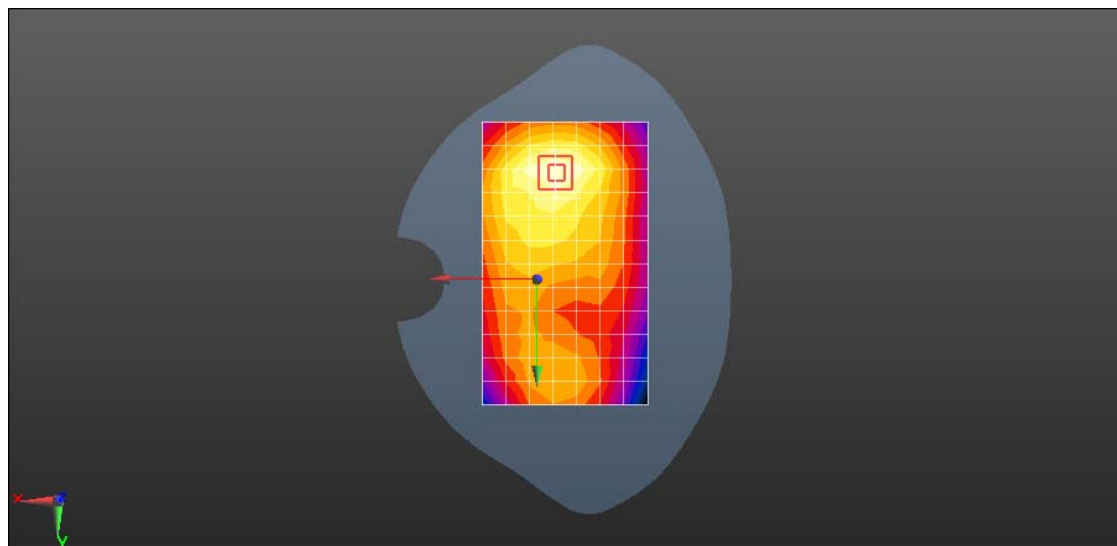
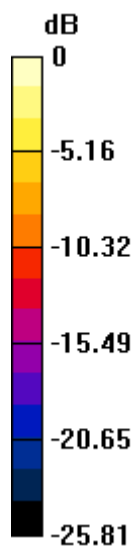
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.293 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.715 W/kg

SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.533 W/kg = -2.73 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band IV 20M QPSK 1RB 50 offset 20050CH Bottom Side 10mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.453$ S/m; $\epsilon_r = 51.941$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(4.95, 4.95, 4.95); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (7x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

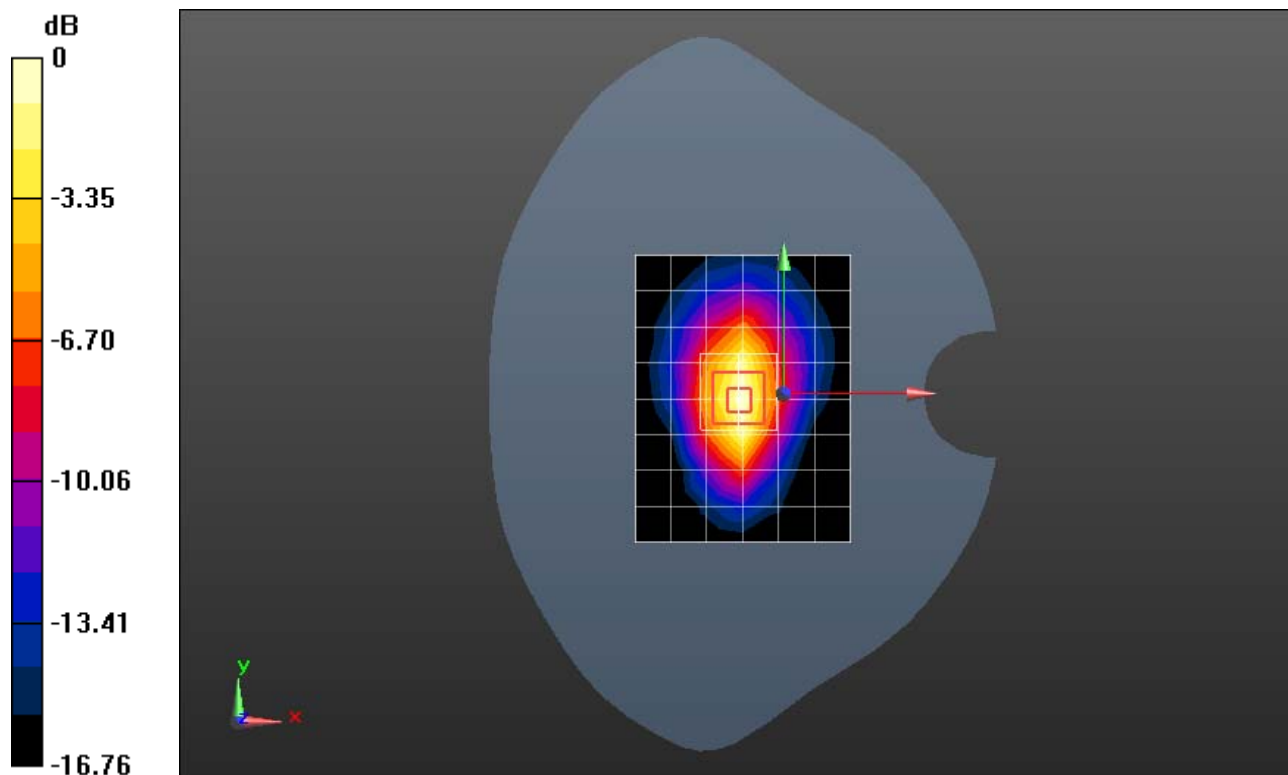
Maximum value of SAR (measured) = 1.14 W/kg

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

Reference Value = 28.83 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.939 W/kg; SAR(10 g) = 0.510 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band V 10M QPSK 1RB 25 offset 20450CH Right touch with Battery2-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 40.708$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.289 W/kg

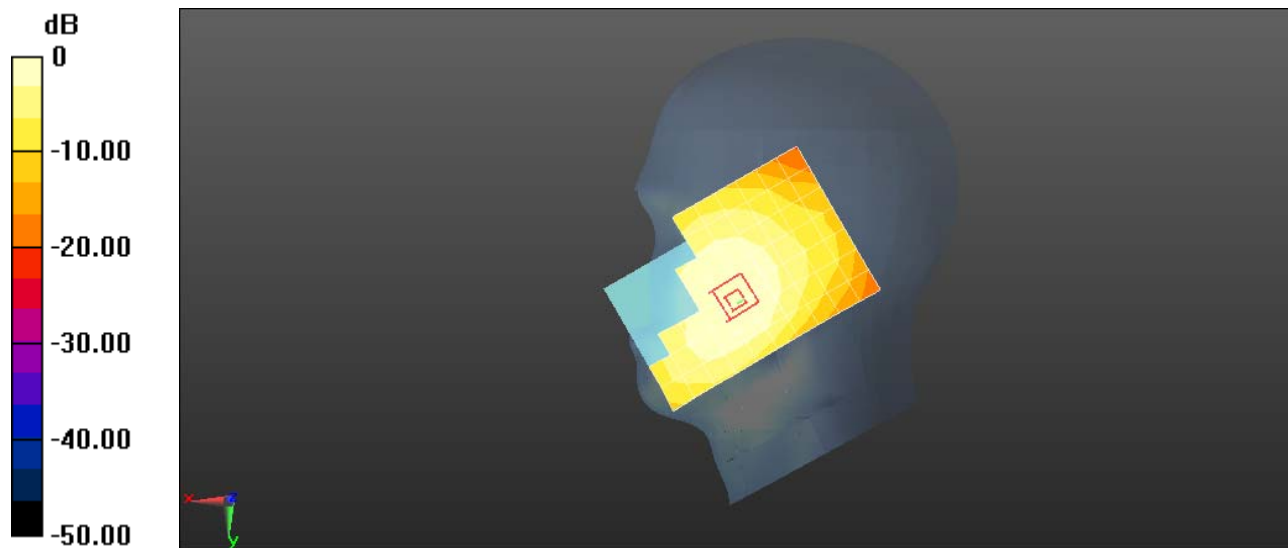
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.334 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.214 W/kg

Maximum value of SAR (measured) = 0.305 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band V 10M QPSK 1RB 25 offset 20600CH Back Side 15mm-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 844$ MHz; $\sigma = 1.009$ S/m; $\epsilon_r = 55.515$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

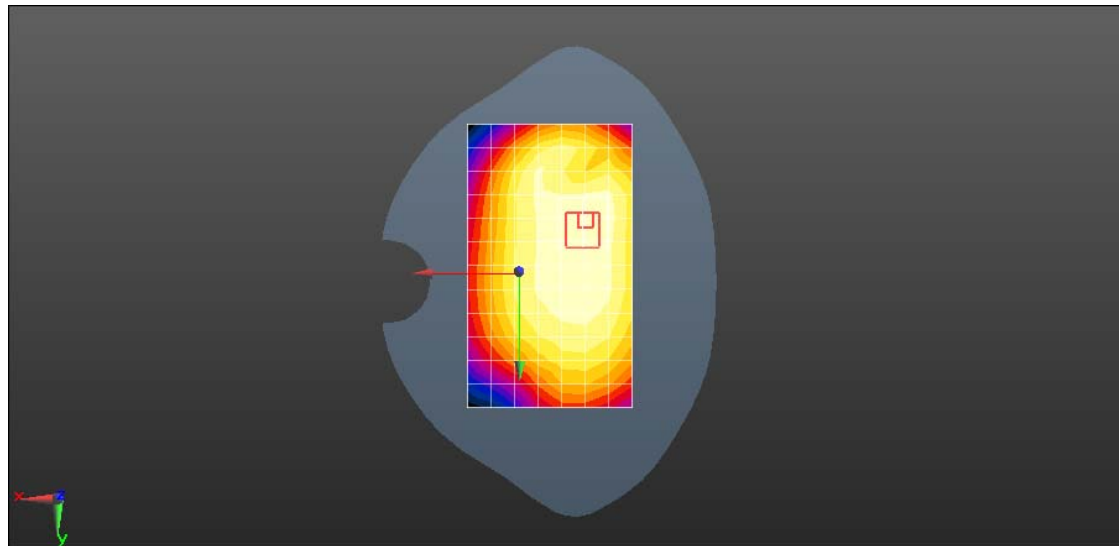
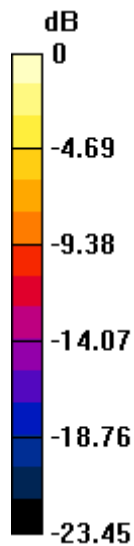
Maximum value of SAR (measured) = 0.262 W/kg

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

Reference Value = 15.03 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.175 W/kg



0 dB = 0.262 W/kg = -5.82 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band V 10M QPSK 1RB 25 offset 20600CH Back Side 10mm-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 844$ MHz; $\sigma = 1.009$ S/m; $\epsilon_r = 55.515$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.437 W/kg

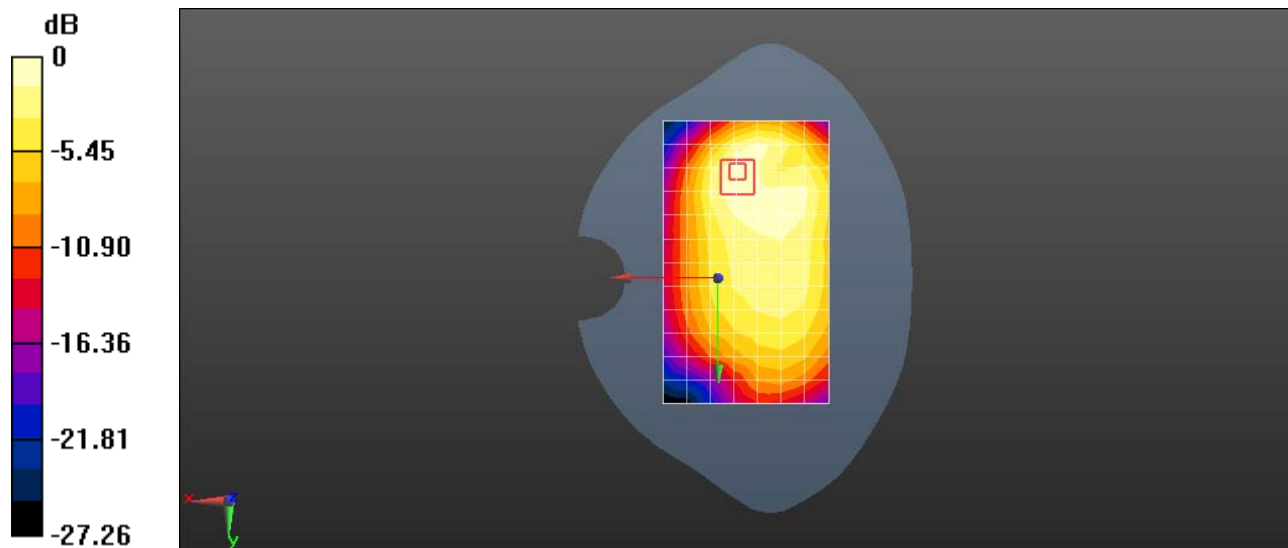
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.20 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.437 W/kg = -3.60 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band VII 20M QPSK 1RB 99 offset 20850H Right touch with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 40.493$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

ε Probe: EX3DV4 - SN3744; ConvF(6.68, 6.68, 6.68); Calibrated: 2015-7-24;

ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$

ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23

ε Phantom: SAM4; Type: SAM; Serial: TP-1620

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (10x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.125 W/kg

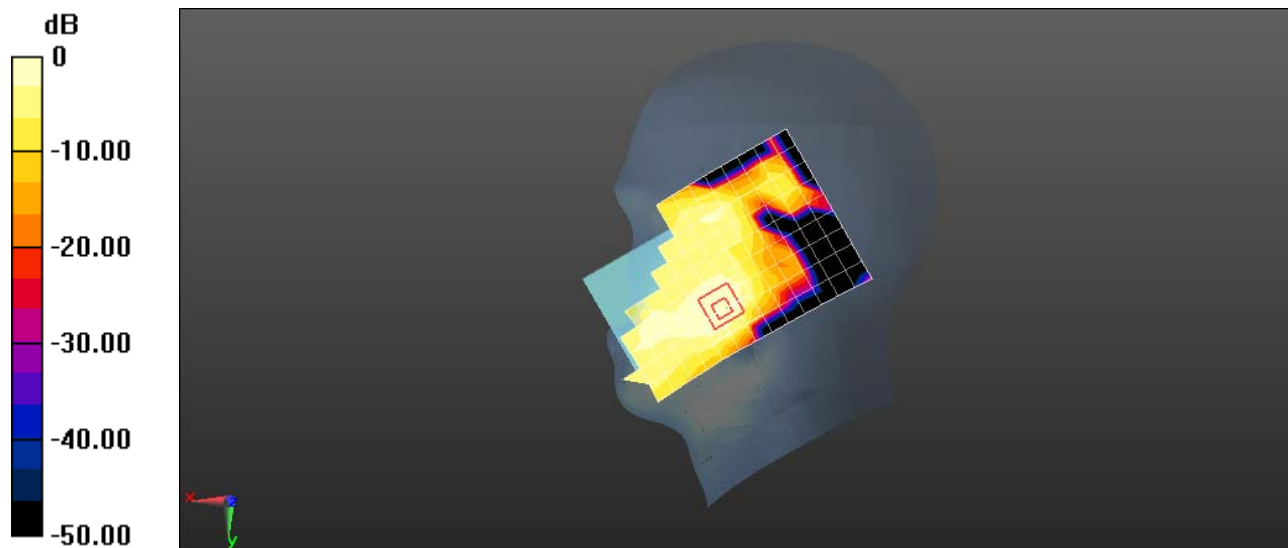
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0.5740 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.047 W/kg

Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.125 W/kg = -9.03 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band VII 20M QPSK 50RB 0 offset 21350CH Back Side 15mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 2.102$ S/m; $\epsilon_r = 51.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(4.23, 4.23, 4.23); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (10x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.369 W/kg

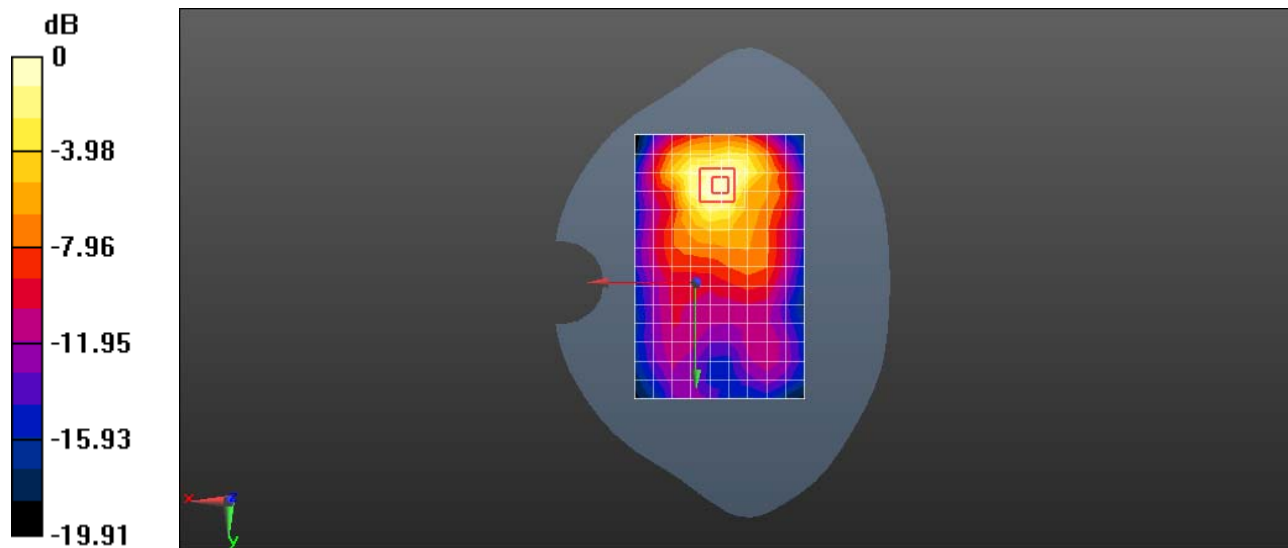
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.470 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.413 W/kg



0 dB = 0.369 W/kg = -4.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band VII 20M QPSK 50RB 0 offset 21350CH Bottom Side 10mm-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 2.102$ S/m; $\epsilon_r = 51.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(4.23, 4.23, 4.23); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.02 W/kg

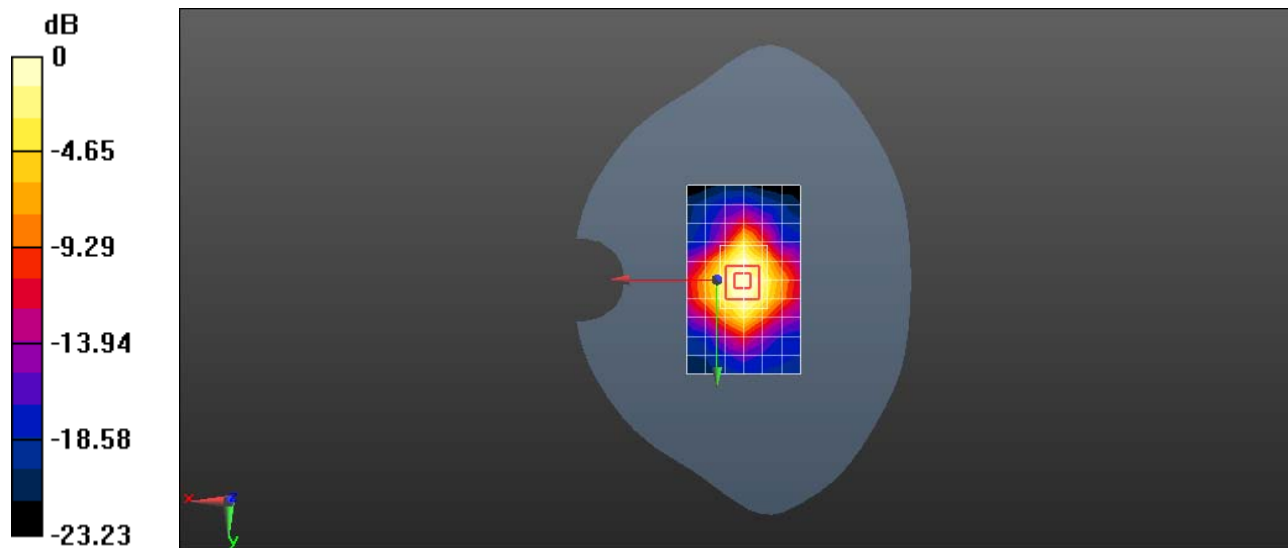
Configuration/Body/Zoom Scan (7x9x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 22.97 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.814 W/kg; SAR(10 g) = 0.453 W/kg

Maximum value of SAR (measured) = 0.988 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XII 10M QPSK 1RB 25 offset 23130CH Right touch-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.866$ S/m; $\epsilon_r = 42.364$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.52, 6.52, 6.52); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.194 W/kg

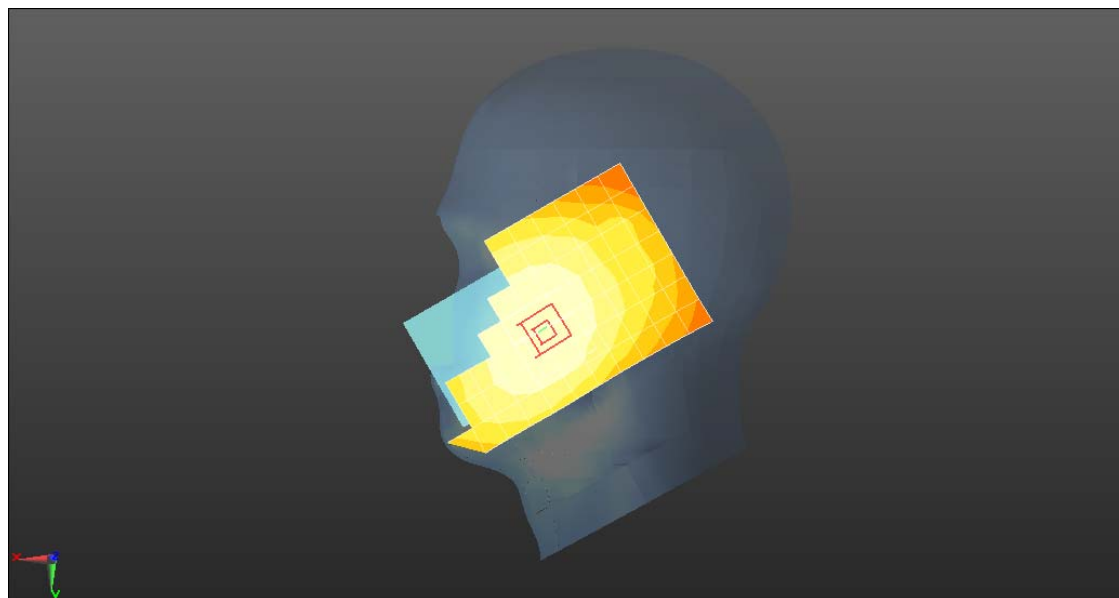
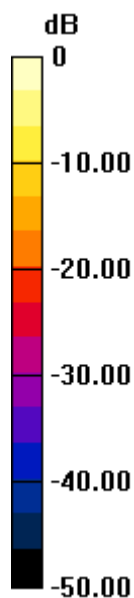
Configuration/Head/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.128 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.193 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XII 10M QPSK 1RB 25 offset 23130CH Back Side 15mm-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 55.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.292 W/kg

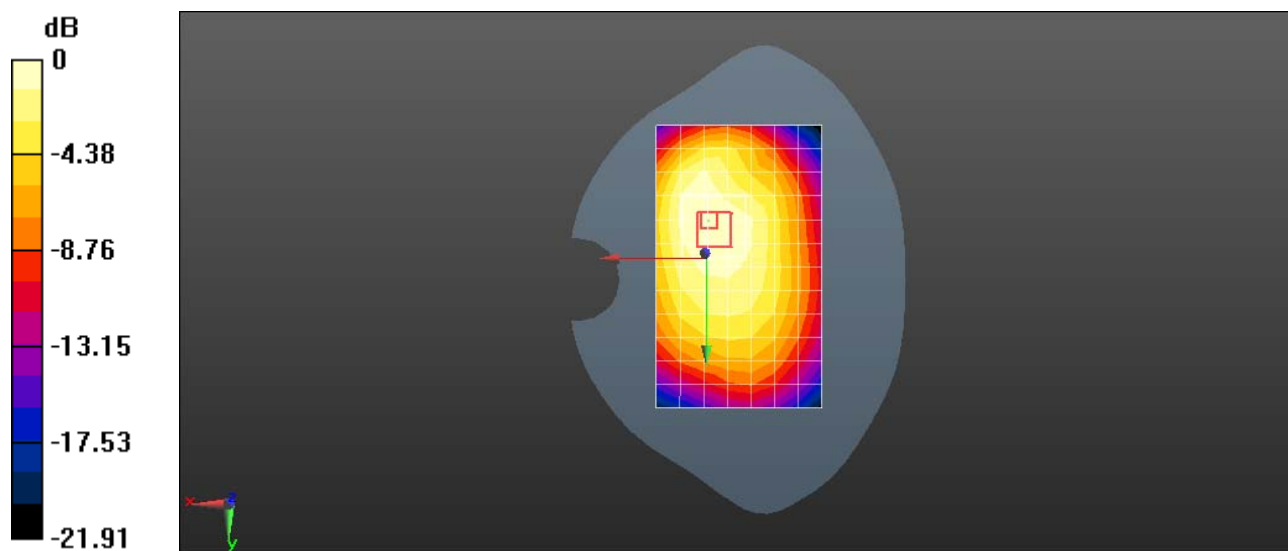
Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.07 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.294 W/kg



0 dB = 0.292 W/kg = -5.35 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XII 10M QPSK 1RB 25 offset 23130CH Back Side 10mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.939 \text{ S/m}$; $\epsilon_r = 55.224$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

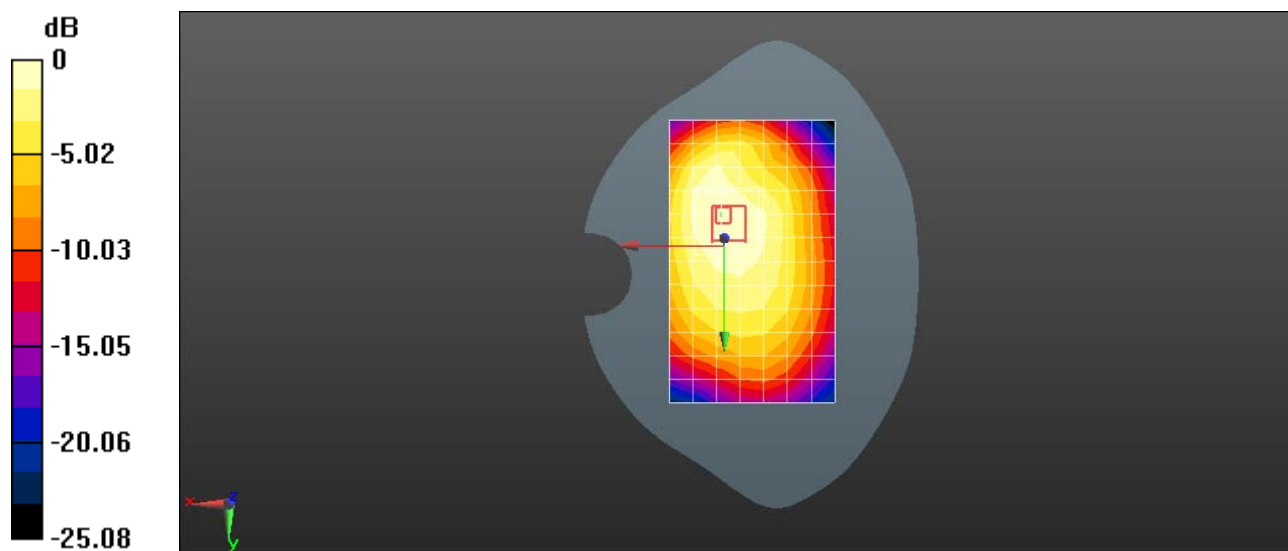
ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.421 W/kg

Configuration/Body/Zoom Scan (7x8x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.88 V/m ; Power Drift = -0.18 dB Peak SAR (extrapolated) = 0.594 W/kg SAR(1 g) = 0.364 W/kg ; SAR(10 g) = 0.254 W/kg Maximum value of SAR (measured) = 0.422 W/kg 0 dB = 0.421 W/kg = -3.76 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XVII 10M QPSK 1RB 49 offset 23780CH Right touch with Battery2-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 709$ MHz; $\sigma = 0.863$ S/m; $\epsilon_r = 42.396$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.52, 6.52, 6.52); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM1; Type: SAM; Serial: TP-1475

ε DASY52 52.8.8(1222);

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.286 W/kg

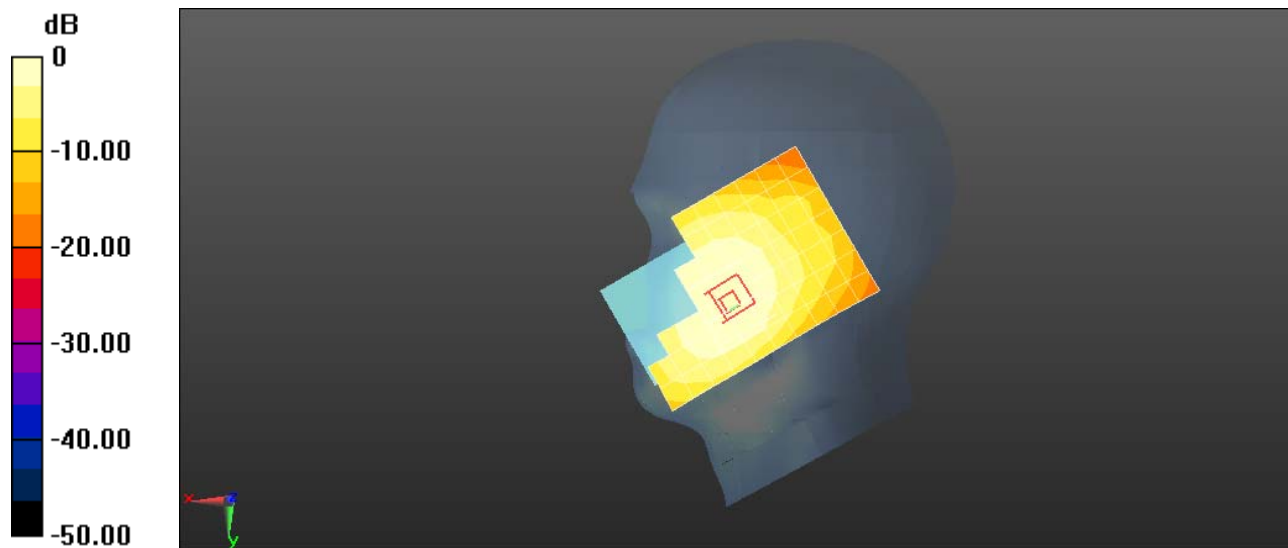
Configuration/Head/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.600 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 0.292 W/kg



0 dB = 0.286 W/kg = -5.44 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XVII 10M QPSK 1RB 49 offset 23780CH Back Side 15mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 709$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 55.261$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.425 W/kg

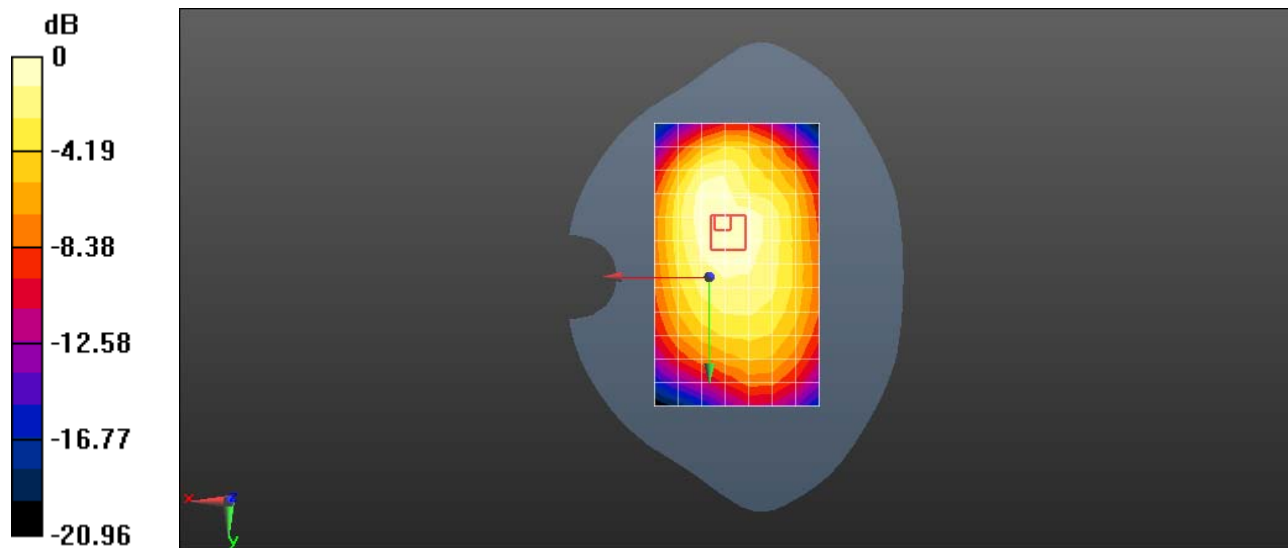
Configuration/Body/Zoom Scan (5x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.86 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.425 W/kg = -3.72 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 LTE Band XVII 10M QPSK 1RB 49 offset 23780CH Back Side 10mm with Battery 3-Main Antenna

DUT: FRD-L04; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 709$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 55.261$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

ε Probe: ES3DV3 - SN3168; ConvF(6.39, 6.39, 6.39); Calibrated: 2015-9-28;

ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$

ε Electronics: DAE4 Sn851; Calibrated: 2015-7-20

ε Phantom: SAM2; Type: SAM; Serial: TP:1474

ε DASY52 52.8.8(1222);

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.483 W/kg

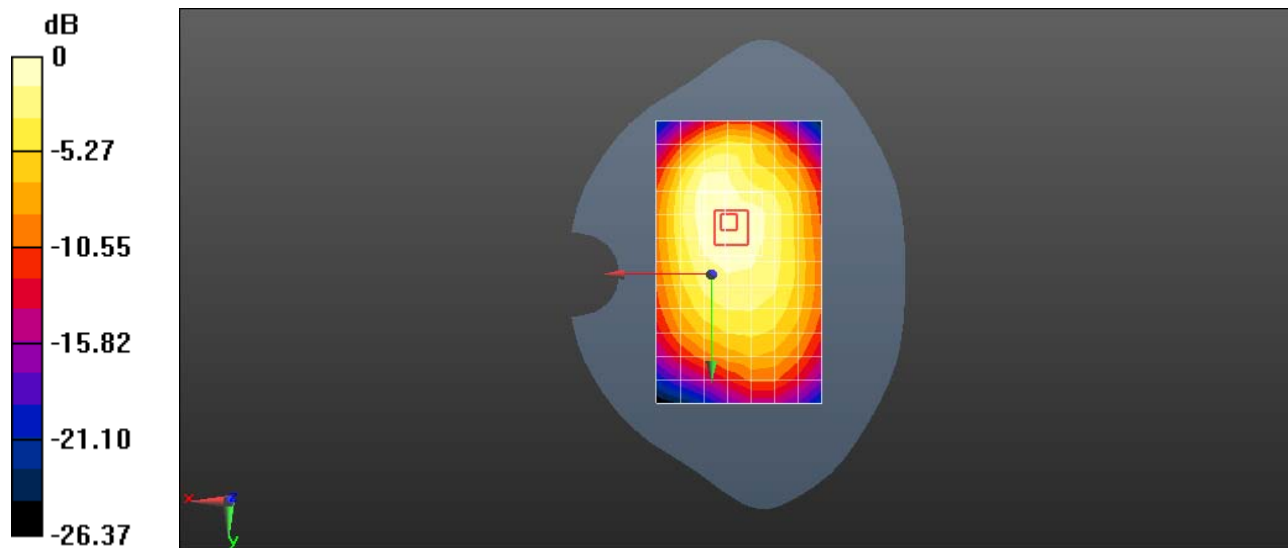
Configuration/Body/Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.65 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 WIFI 2.4G 802.11b 11CH Left touch

DUT: FRD-L04; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.863$ S/m; $\epsilon_r = 39.101$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3744; ConvF(6.84, 6.84, 6.84); Calibrated: 2015-7-24;
- ⌵ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌵ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌵ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌵ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (9x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.52 W/kg

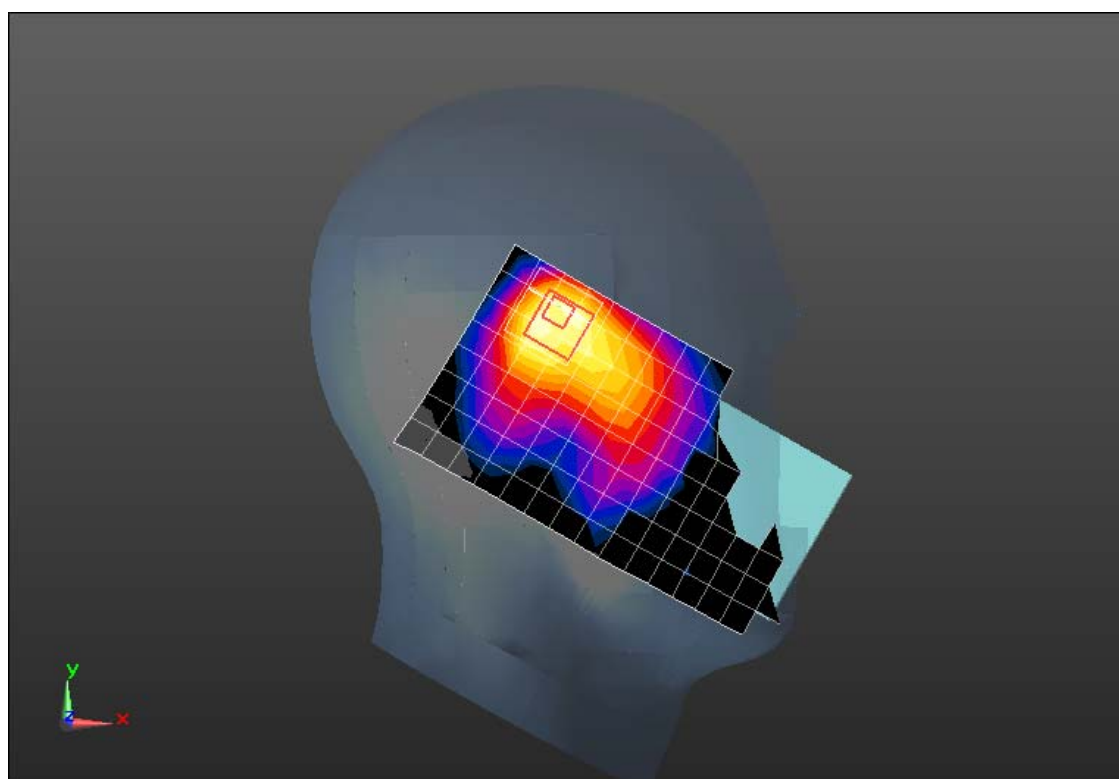
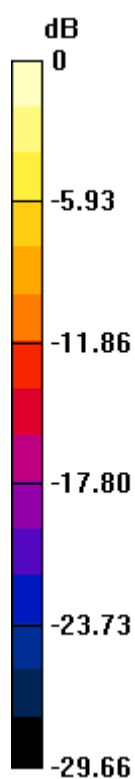
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.418 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.366 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.84 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 wifi 2.4G 802.11b 6CH Back Side 15mm**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 52.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(4.35, 4.35, 4.35); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (10x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.134 W/kg

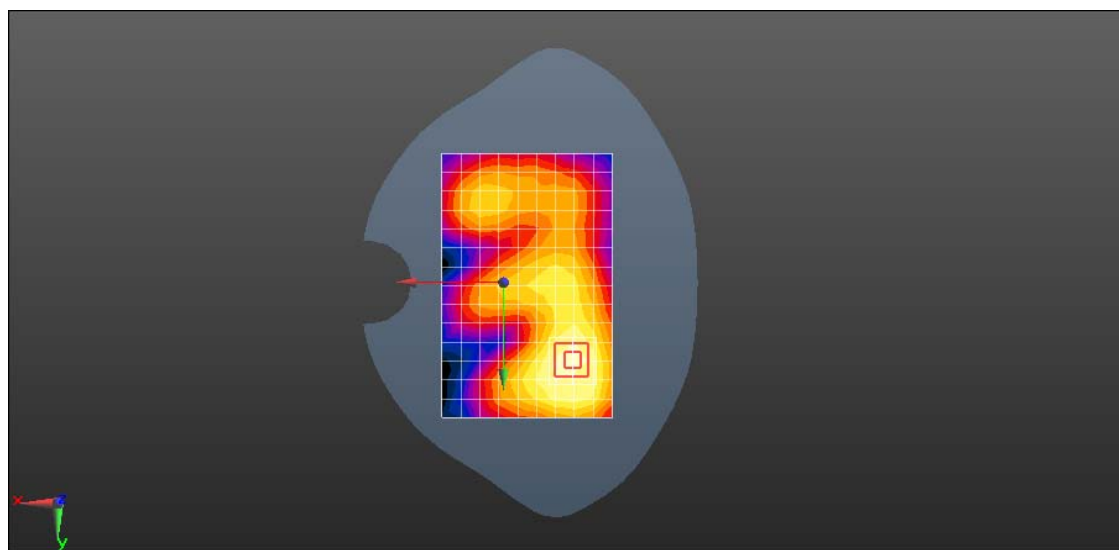
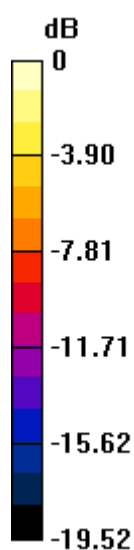
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.499 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.133 W/kg



0 dB = 0.134 W/kg = -8.73 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 wifi 2.4G 80.211b 11CH Right Side 10mm with Battery 3**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.022$ S/m; $\epsilon_r = 51.963$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: ES3DV3 - SN3168; ConvF(4.35, 4.35, 4.35); Calibrated: 2015-9-28;
- ζ Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (7x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.285 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.27 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.112 W/kg

Maximum value of SAR (measured) = 0.299 W/kg

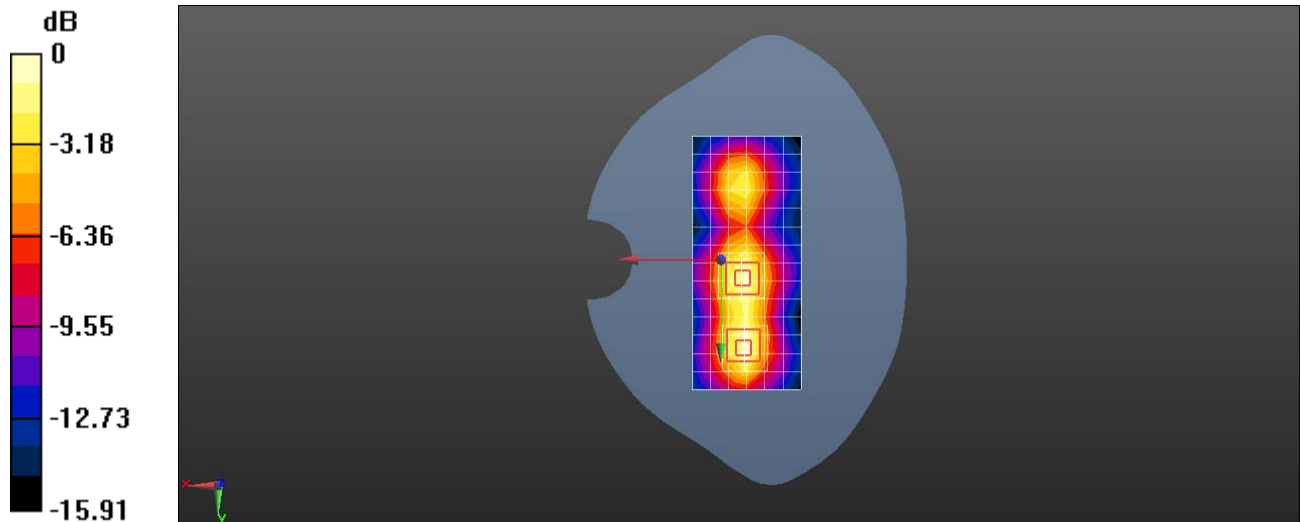
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.27 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.396 W/kg

SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.112 W/kg

Maximum value of SAR (measured) = 0.262 W/kg



0 dB = 0.285 W/kg = -5.45 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 Wifi 5G 802.11a 153CH Left touch**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5765 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5765$ MHz; $\sigma = 5.283$ S/m; $\epsilon_r = 36.235$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ζ Probe: EX3DV4 - SN3736; ConvF(4.44, 4.44, 4.44); Calibrated: 2016-4-26;
- ζ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Head/Area Scan (11x18x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.24 W/kg

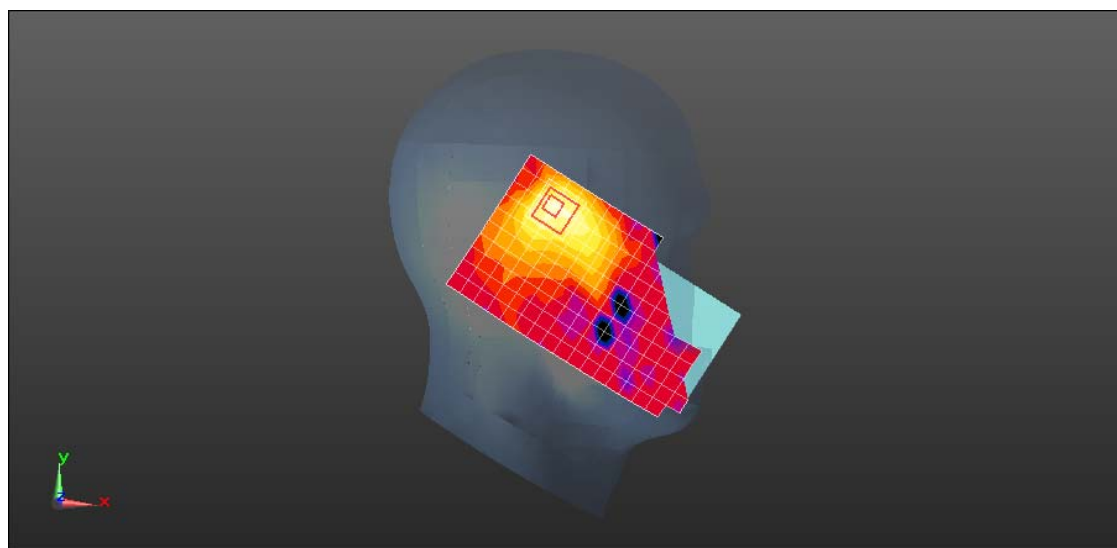
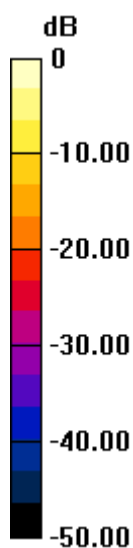
Configuration/Head/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 6.045 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.24 W/kg = 3.50 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 Wifi 5G 802.11a 157CH Front Side 15mm**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.187$ S/m; $\epsilon_r = 48.514$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: EX3DV4 - SN3736; ConvF(3.6, 3.6, 3.6); Calibrated: 2016-4-26;
- ζ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (11x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.405 W/kg

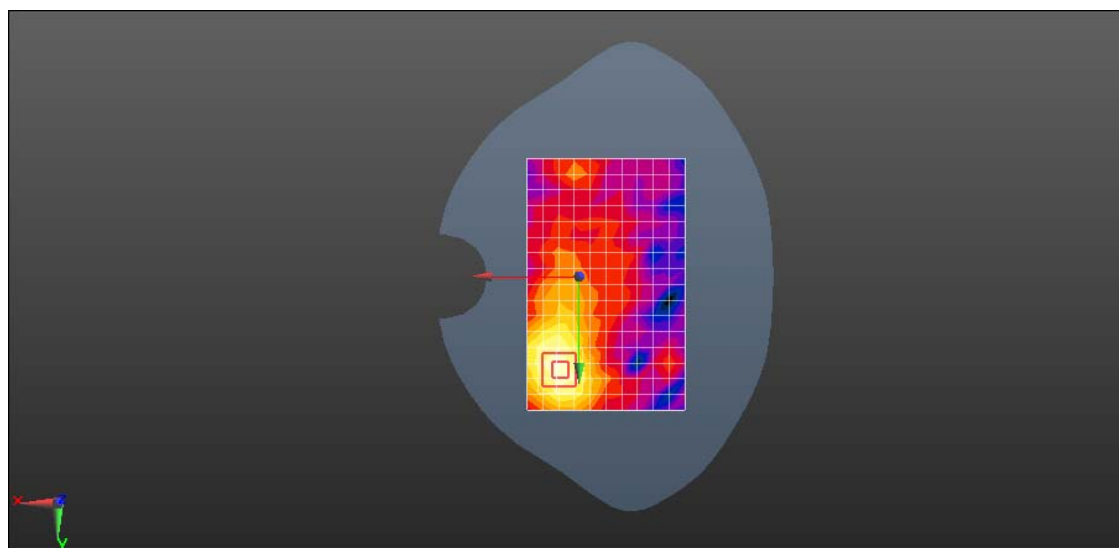
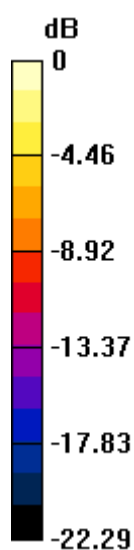
Configuration/Body/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.001 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.703 W/kg

SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.436 W/kg



0 dB = 0.405 W/kg = -3.93 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

FRD-L04 Wifi 5G 802.11a 161CH Right Side 10mm**DUT: FRD-L04; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5805 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5805$ MHz; $\sigma = 6.245$ S/m; $\epsilon_r = 48.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ζ Probe: EX3DV4 - SN3736; ConvF(3.6, 3.6, 3.6); Calibrated: 2016-4-26;
- ζ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- ζ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ζ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ζ DASY52 52.8.8(1222);

Configuration/Body/Area Scan (10x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.325 W/kg

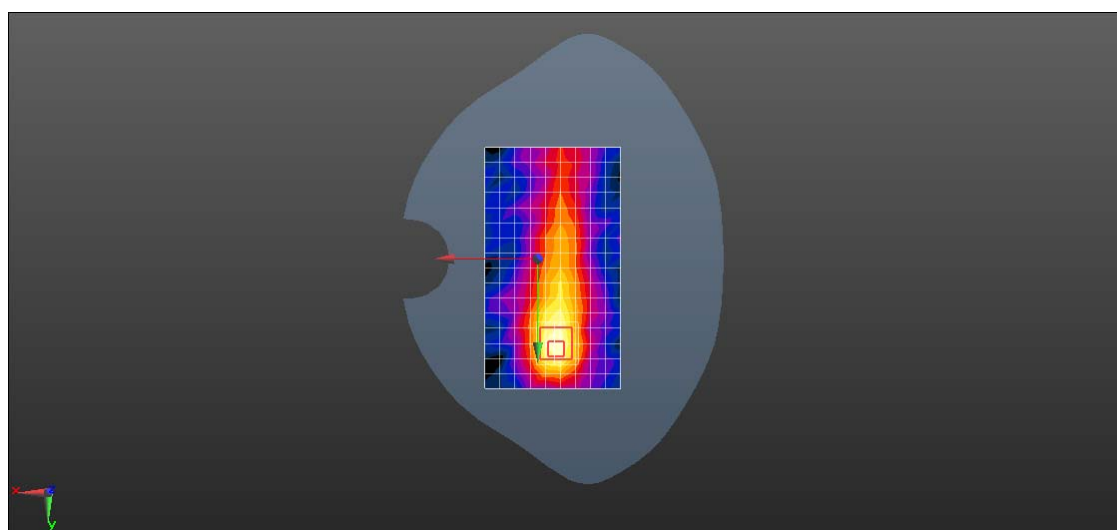
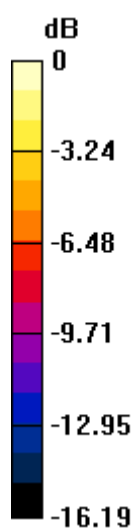
Configuration/Body/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 5.202 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.368 W/kg



0 dB = 0.325 W/kg = -4.88 dBW/kg