



Appendix B. SAR Measurement Plots

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Head SAR
Body SAR

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 GSM 850 190CH Right Cheek-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY3

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; $\sigma = 0.926$ S/m; $\epsilon_r = 41.06$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82) @ 836.6 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2021-07-28
- Phantom: SAM1; Type: SAM; Serial: 1475
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Head/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.763 W/kg

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

Reference Value = 19.86 V/m; Power Drift = 0.00 dB

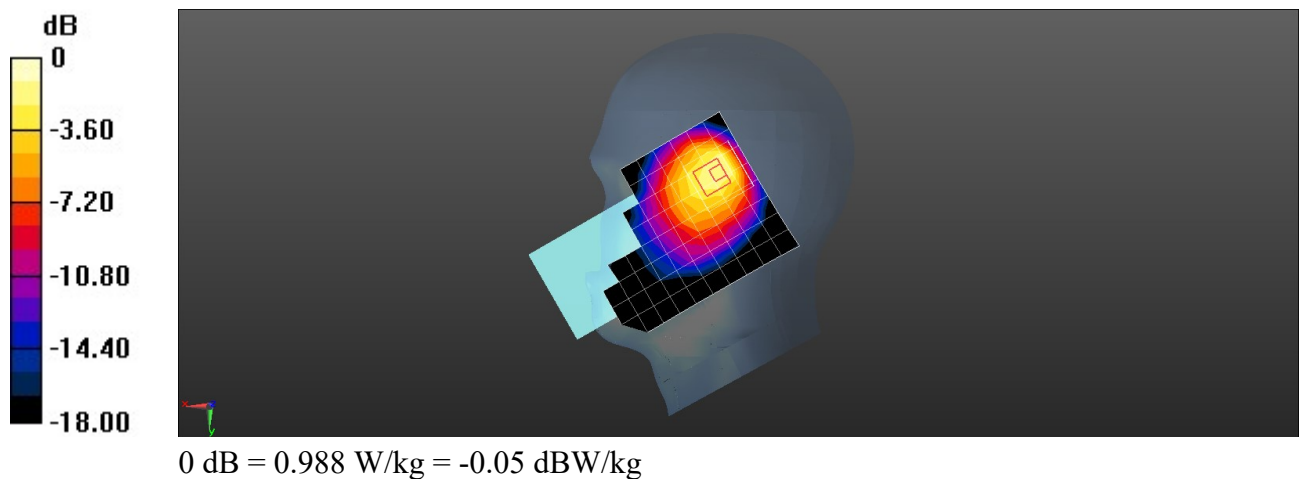
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.350 W/kg

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

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



Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 GSM 850 190CH Back Side 15mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY3

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; $\sigma = 0.926$ S/m; $\epsilon_r = 41.06$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82) @ 836.6 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2021-07-28
- Phantom: SAM1; Type: SAM; Serial: 1475
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body Worn/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.182 W/kg

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

Reference Value = 10.75 V/m; Power Drift = -0.02 dB

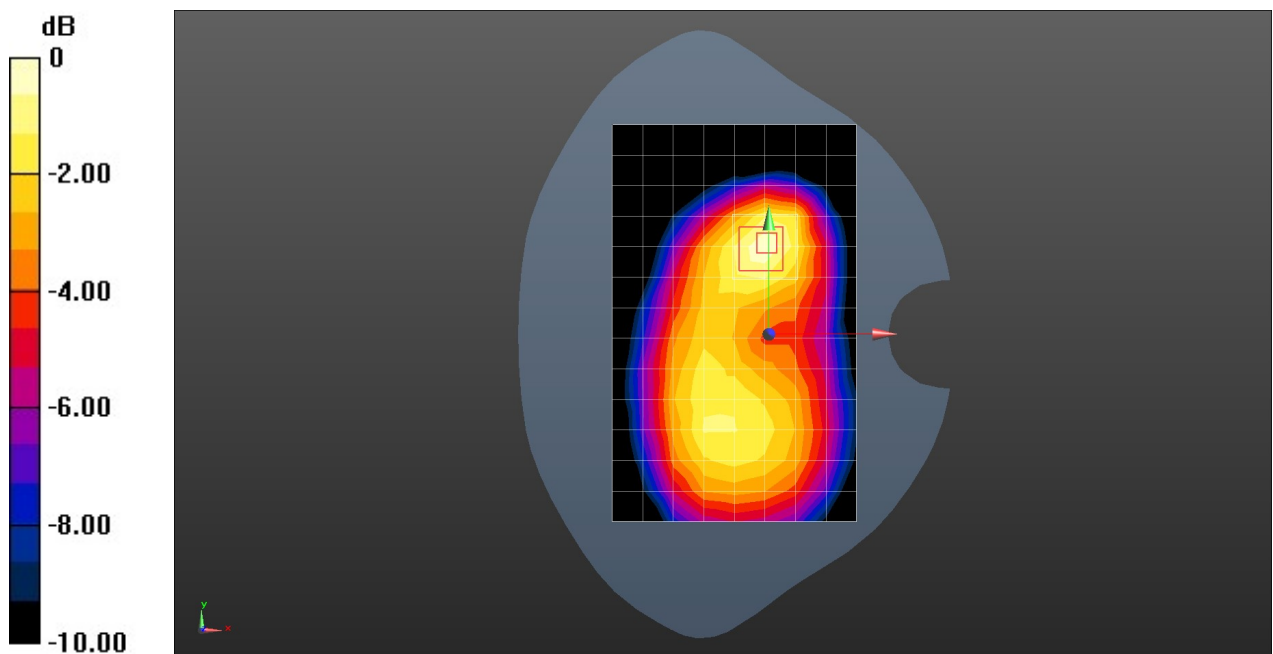
Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.085 W/kg

Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 63.4%

Maximum value of SAR (measured) = 0.180 W/kg



0 dB = 0.180 W/kg = -7.45 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 GSM 850 GPRS 2TS 190CH Back Side 10mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY3

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; $\sigma = 0.926$ S/m; $\epsilon_r = 41.06$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82) @ 836.6 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2021-07-28
- Phantom: SAM1; Type: SAM; Serial: 1475
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.371 W/kg

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

Reference Value = 11.92 V/m; Power Drift = 0.11 dB

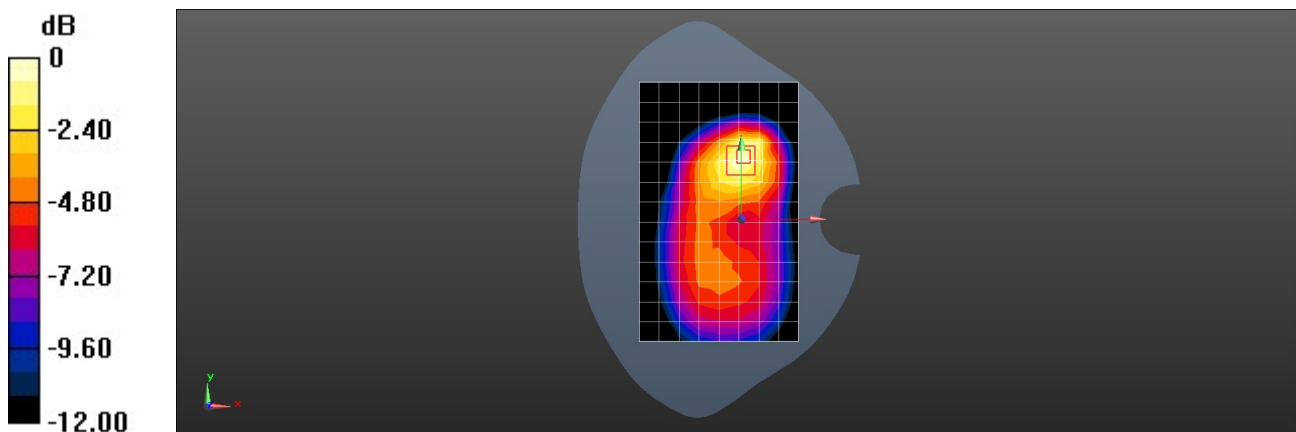
Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.167 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.6%

Maximum value of SAR (measured) = 0.381 W/kg



Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 PCS 1900 661CH Right Tilt-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.397$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.49, 8.49, 8.49) @ 1880 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Head/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.722 W/kg

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

Reference Value = 17.86 V/m; Power Drift = 0.03 dB

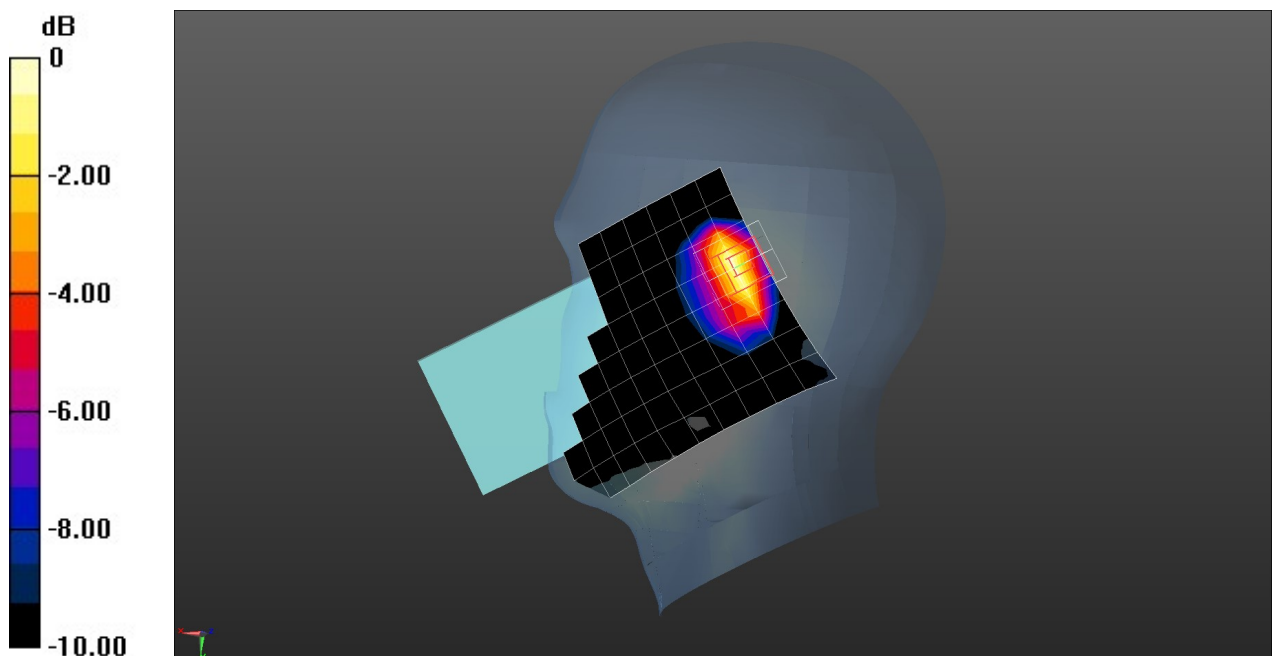
Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.249 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 0.736 W/kg



0 dB = 0.736 W/kg = -1.33 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 PCS 1900 661CH Back Side 15mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.397$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.49, 8.49, 8.49) @ 1880 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.306 W/kg

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

Reference Value = 7.321 V/m; Power Drift = 0.01 dB

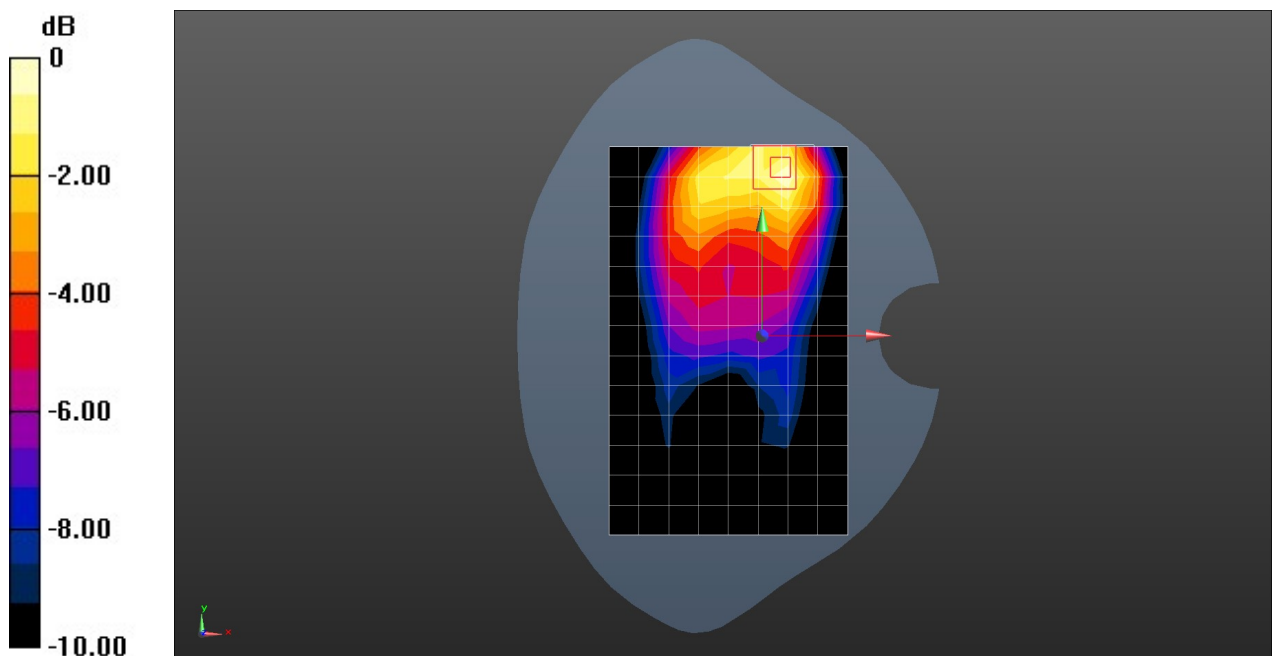
Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.128 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

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



0 dB = 0.308 W/kg = -5.11 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 PCS 1900 GPRS 2TS 661CH Top Side 10mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.397$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.49, 8.49, 8.49) @ 1880 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 12.02 V/m; Power Drift = 0.15 dB

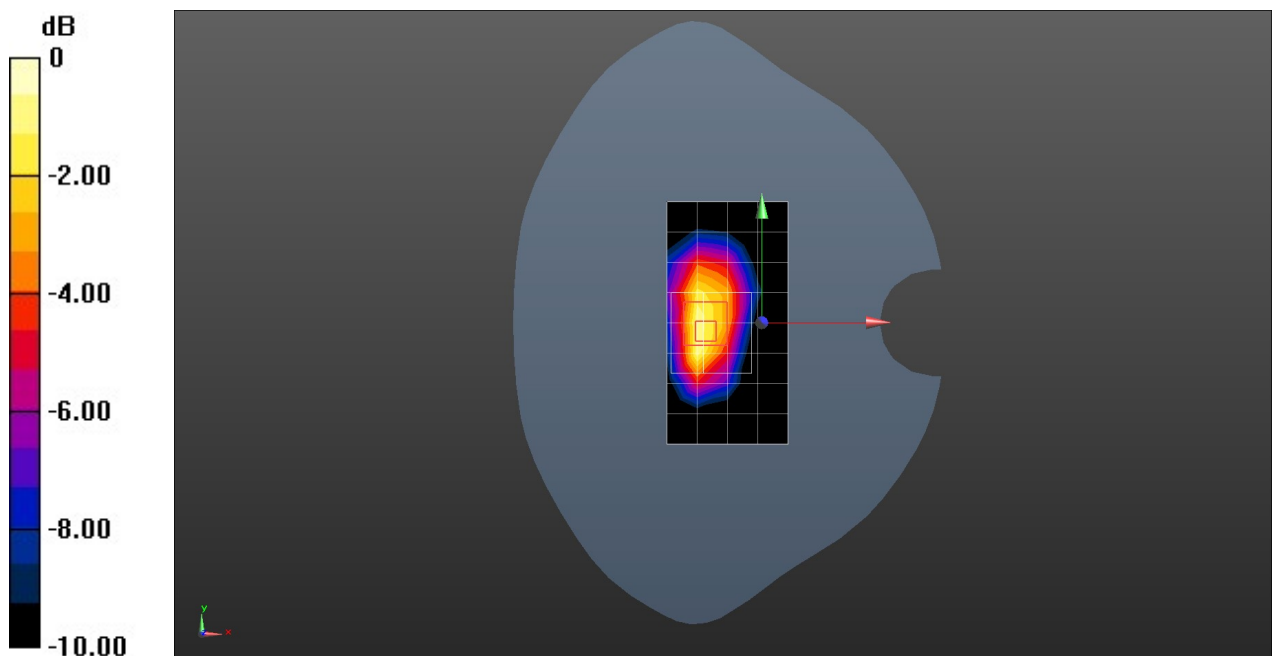
Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.133 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 0.372 W/kg



0 dB = 0.372 W/kg = -4.29 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band II 9400CH Right Tilt-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.397$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.49, 8.49, 8.49) @ 1880 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Head/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.847 W/kg

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

Reference Value = 19.88 V/m; Power Drift = -0.06 dB

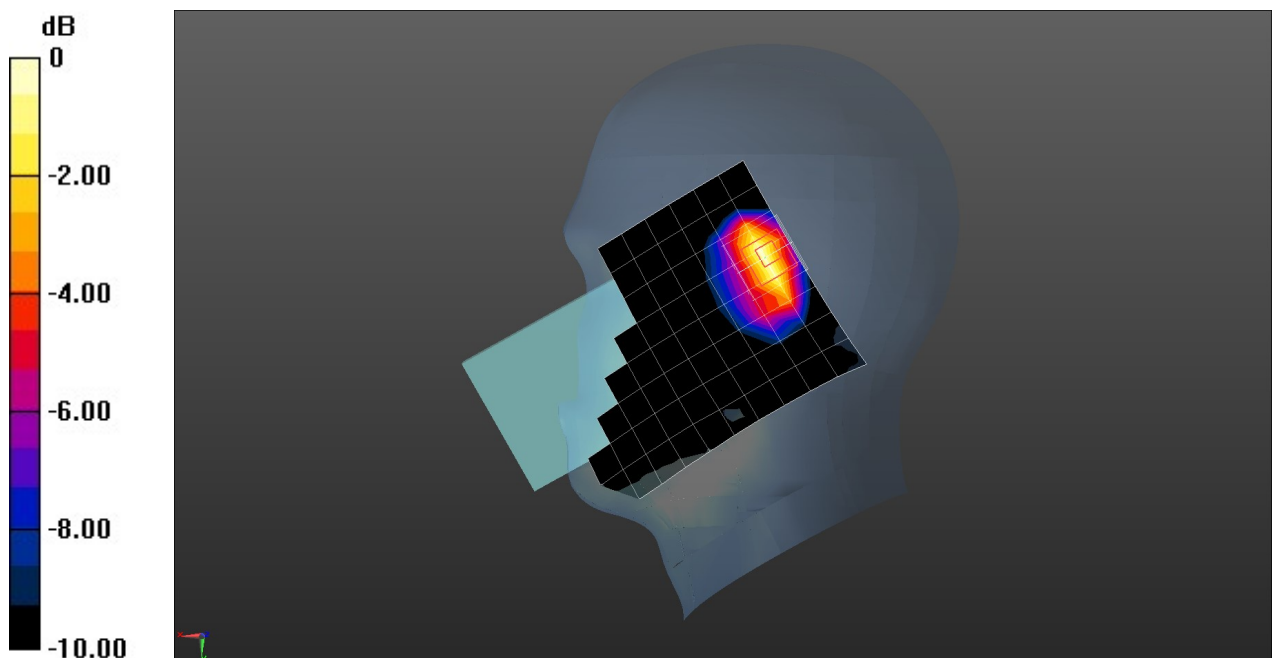
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.299 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.880 W/kg



0 dB = 0.880 W/kg = -0.56 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band II 9400CH Back Side 15mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.397$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.49, 8.49, 8.49) @ 1880 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.382 W/kg

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

Reference Value = 9.854 V/m; Power Drift = -0.01 dB

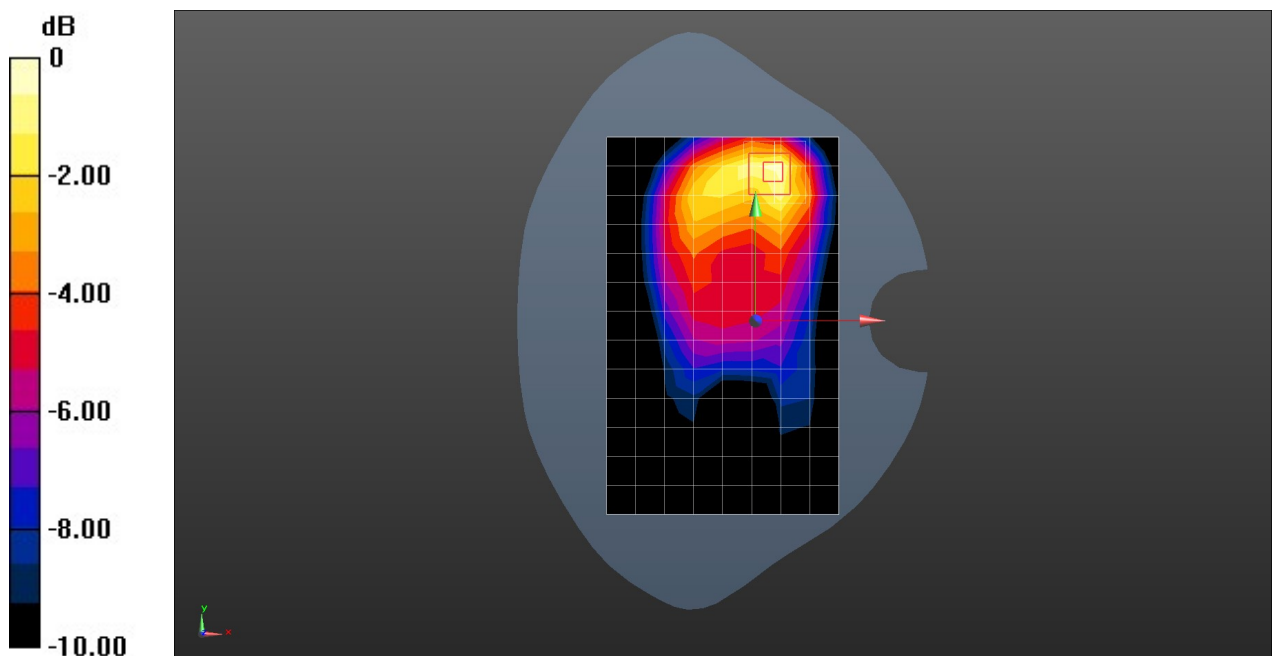
Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.160 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 0.407 W/kg



Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band II 9400CH Top Side 10mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.397$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.49, 8.49, 8.49) @ 1880 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (measured) = 0.339 W/kg

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

Reference Value = 13.14 V/m; Power Drift = 0.18 dB

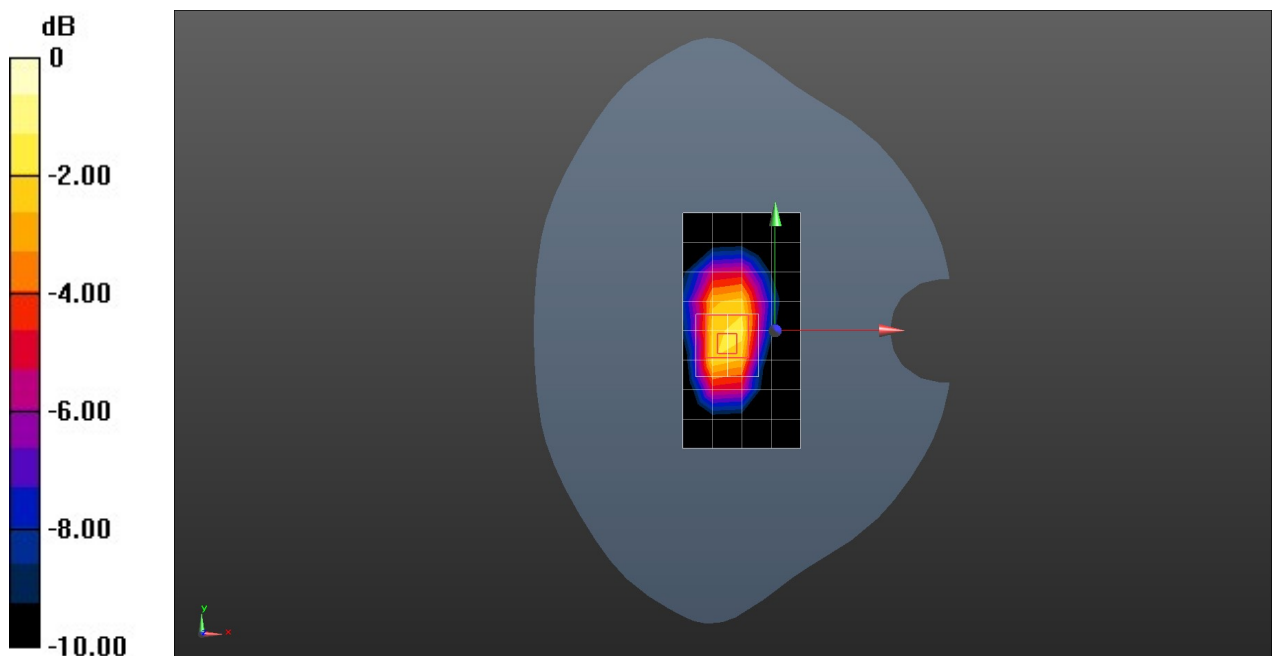
Peak SAR (extrapolated) = 0.587 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.171 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 0.491 W/kg



0 dB = 0.491 W/kg = -3.09 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band IV 1413CH Right Tilt-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 40.647$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.71, 8.71, 8.71) @ 1732.6 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Head/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.821 W/kg

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

Reference Value = 19.60 V/m; Power Drift = -0.12 dB

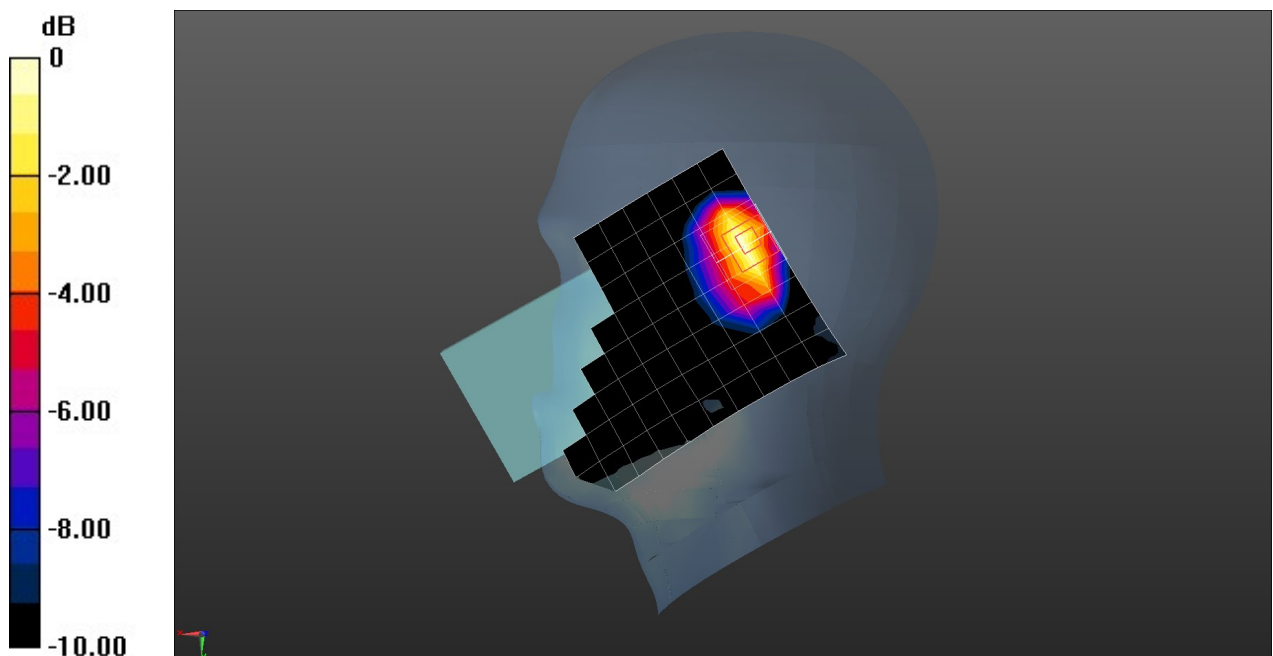
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.298 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 0.825 W/kg



0 dB = 0.825 W/kg = -0.84 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band IV 1413CH Back Side 15mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 40.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.71, 8.71, 8.71) @ 1732.6 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.761 W/kg

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

Reference Value = 12.89 V/m; Power Drift = -0.04 dB

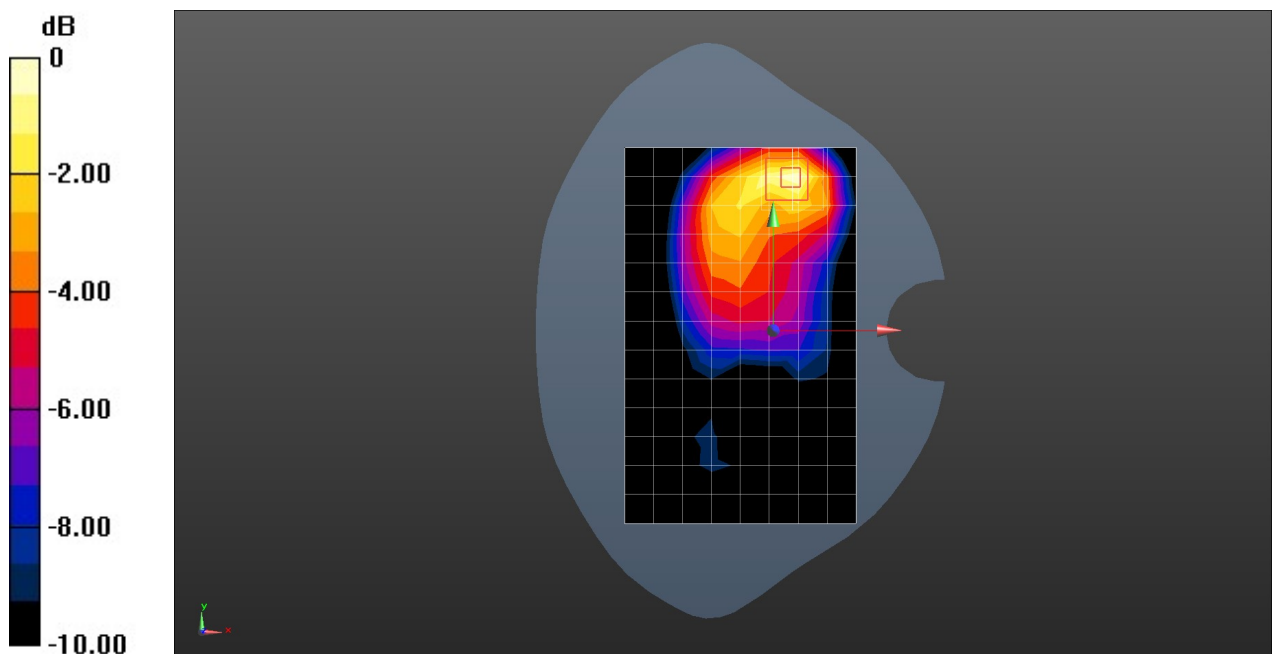
Peak SAR (extrapolated) = 0.911 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.305 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 0.778 W/kg



0 dB = 0.778 W/kg = -1.09 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band IV 1413CH Back Side 10mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 40.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.71, 8.71, 8.71) @ 1732.6 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.622 W/kg

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

Reference Value = 10.46 V/m; Power Drift = -0.13 dB

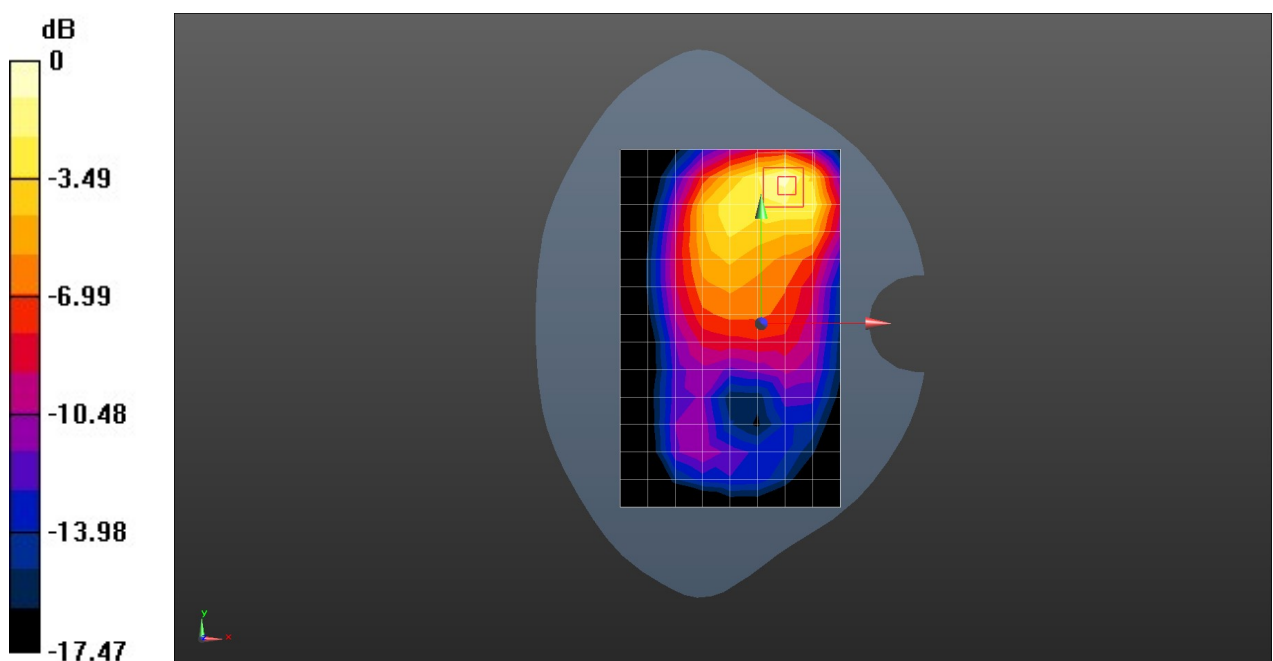
Peak SAR (extrapolated) = 0.835 W/kg

SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.249 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 0.697 W/kg



0 dB = 0.697 W/kg = -1.57 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

MGA-LX3 UMTS Band IV 1513CH Back Side 0mm-Main Antenna

DUT: MGA-LX3; Type: Smart Phone; Serial: DASY5

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 40.627$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.71, 8.71, 8.71) @ 1752.6 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1235; Calibrated: 2021-11-22
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 7.31 W/kg

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

Reference Value = 9.526 V/m; Power Drift = -0.07 dB

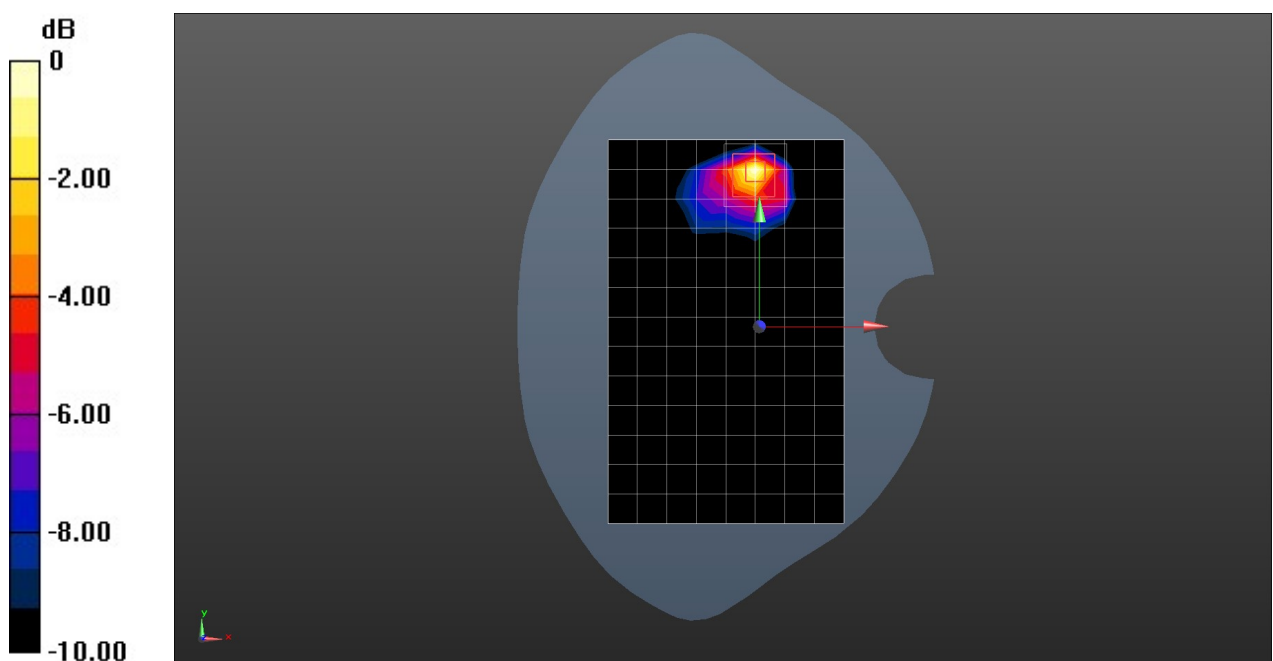
Peak SAR (extrapolated) = 9.29 W/kg

SAR(1 g) = 4.08 W/kg; SAR(10 g) = 1.82 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 43.9%

Maximum value of SAR (measured) = 7.13 W/kg



0 dB = 7.13 W/kg = 8.53 dBW/kg