



Appendix B. SAR Measurement Plots

Table of contents
GSM850 Body
GSM1900 Body
UMTS Band V Body
UMTS Band IV Body
UMTS Band II Body
LTE Band II Body
LTE Band IV Body
LTE Band V Body
LTE Band XIII Body

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 GSM850 GPRS 2TS 128CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: HW-GSM\GPRS\EGPRS-2TS; Frequency: 824.4 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated): $f = 824.4$ MHz; $\sigma = 0.993$ S/m; $\epsilon_r = 56.214$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.58, 9.58, 9.58); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (measured) = 0.860 W/kg

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

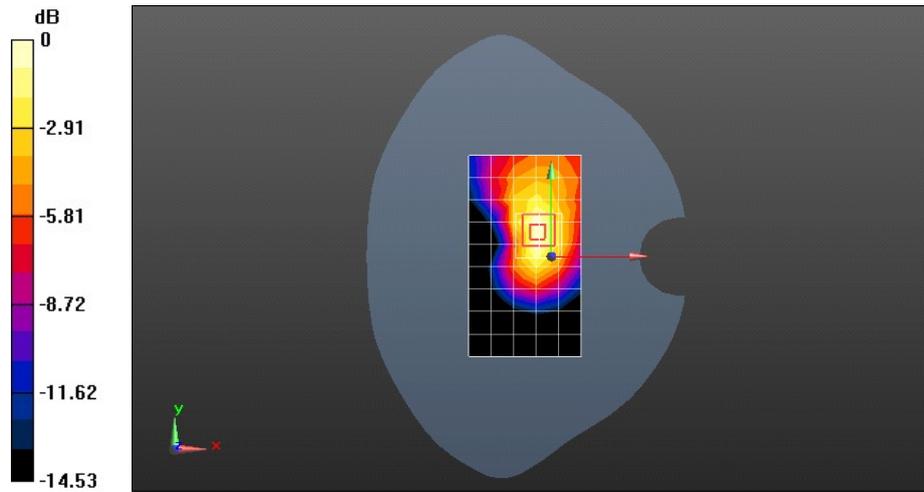
Reference Value = 23.324 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.474 W/kg

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

Maximum value of SAR (measured) = 0.889 W/kg



0 dB = 0.889 W/kg = -0.51 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 GSM1900 GPRS 2TS 810CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: HW-GSM\GPRS\EGPRS-2TS; Frequency: 1909.8 MHz; Duty Cycle: 1:4.10015

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 53.854$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.52, 7.52, 7.52); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.774 W/kg

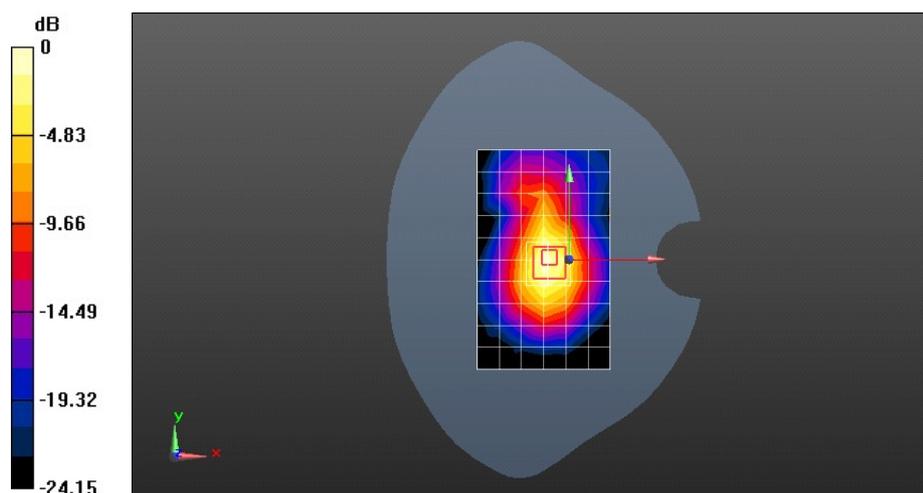
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 22.415 V/m; Power Drift = -0.09 dB

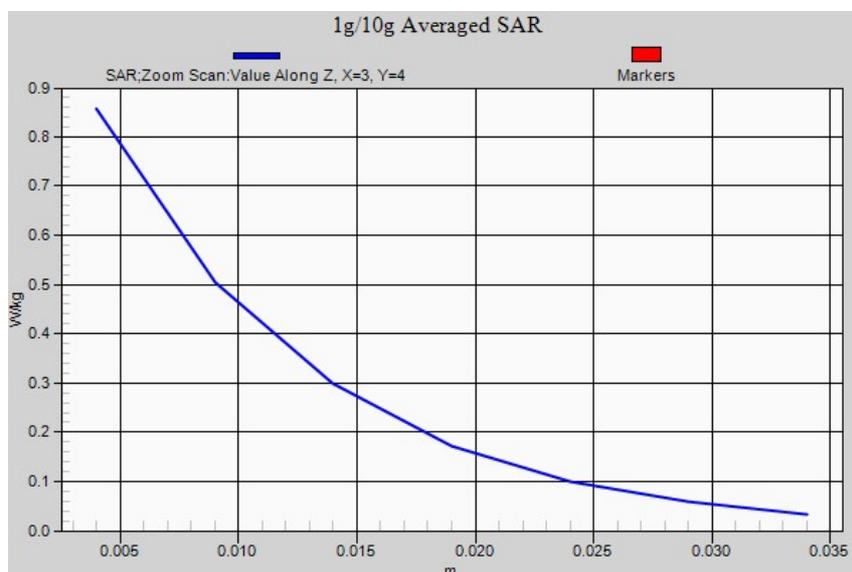
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.750 W/kg; SAR(10 g) = 0.390 W/kg

Maximum value of SAR (measured) = 0.857 W/kg



0 dB = 0.857 W/kg = -0.67 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 UMTS Band V 4233CH Front side 5mm**DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1**

Communication System: HW-UMTS-FDD(WCDMA); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 1.012$ S/m; $\epsilon_r = 55.934$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.58, 9.58, 9.58); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

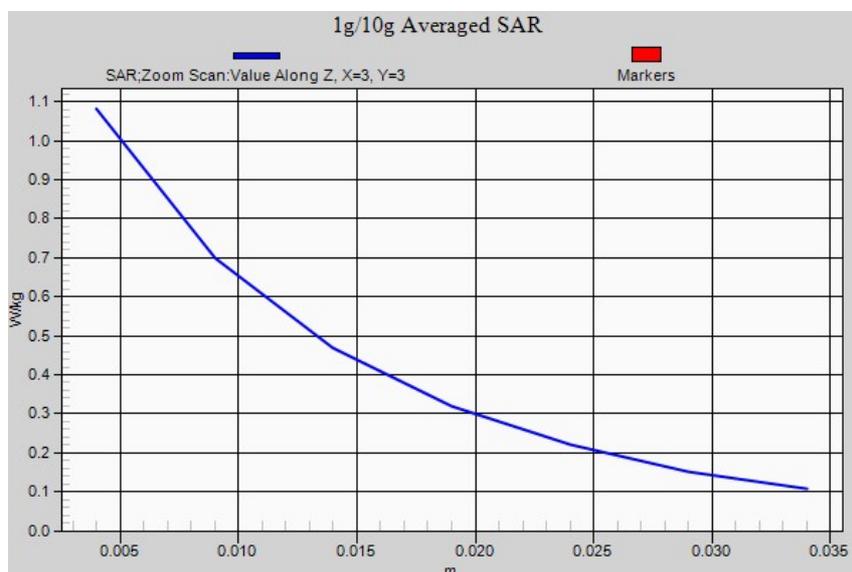
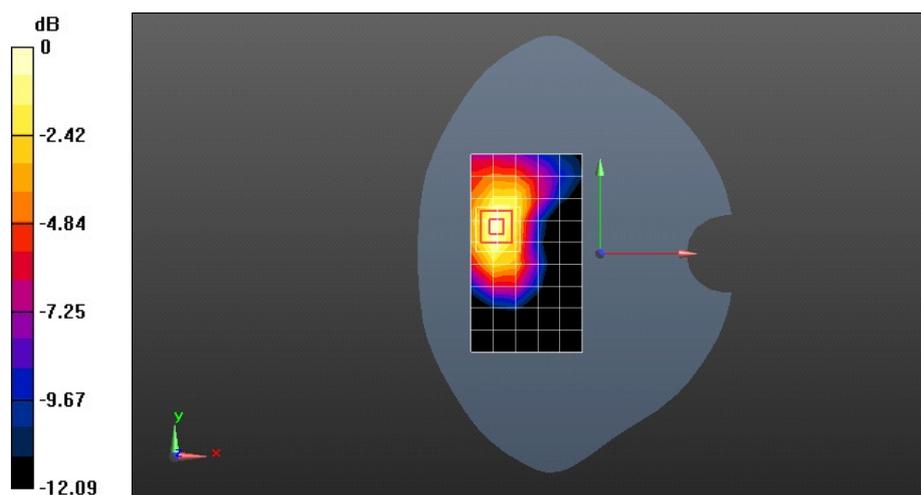
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.822 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.619 W/kg

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



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 UMTS Band IV 1413CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

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

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 51.84$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(8.04, 8.04, 8.04); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.986 W/kg

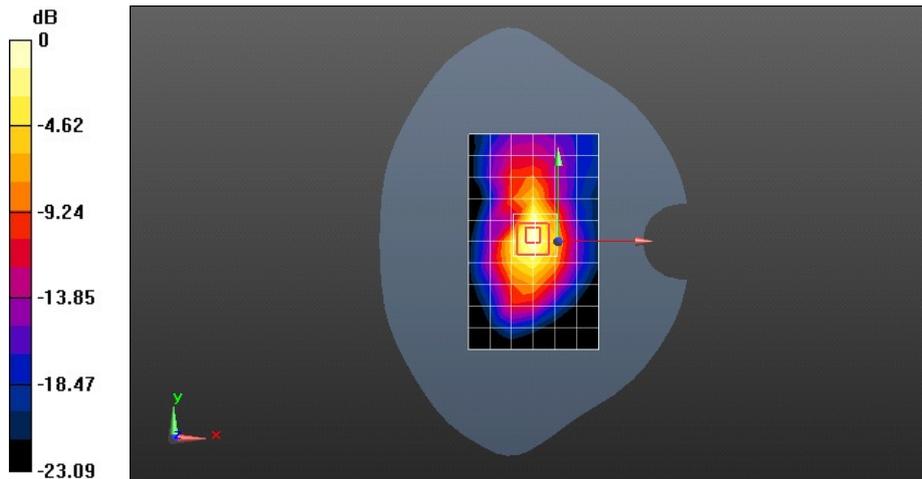
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 25.832 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.940 W/kg; SAR(10 g) = 0.470 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.15 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 UMTS Band II 9400CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.502$ S/m; $\epsilon_r = 53.826$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.52, 7.52, 7.52); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.19 W/kg

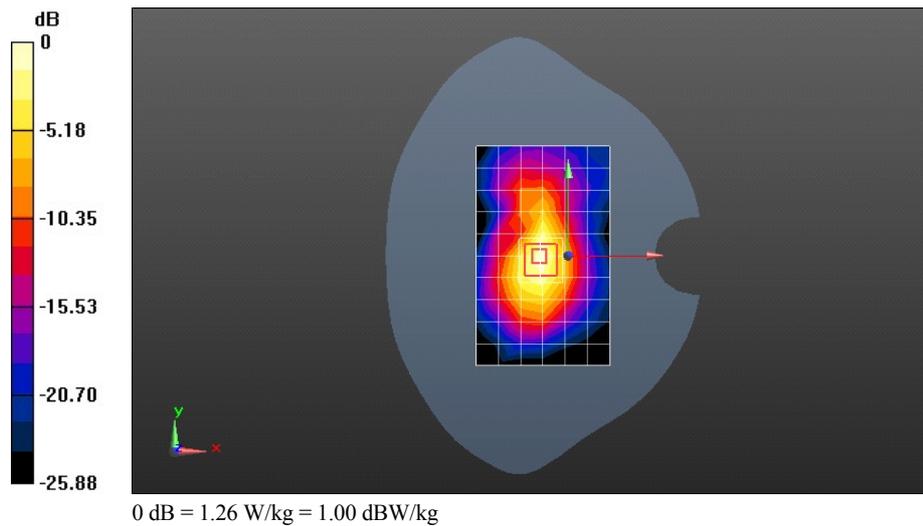
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 28.234 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.558 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-505 LTE Band II 20M QPSK 1RB#50 18900CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.502$ S/m; $\epsilon_r = 53.826$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.52, 7.52, 7.52); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.22 W/kg

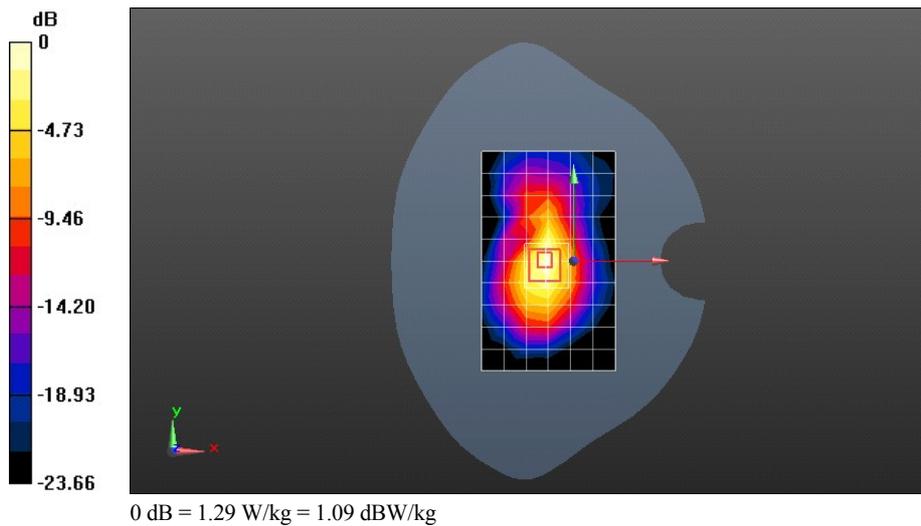
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 28.693 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.575 W/kg

Maximum value of SAR (measured) = 1.29 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band IV 20M QPSK 50%RB#25 20300CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

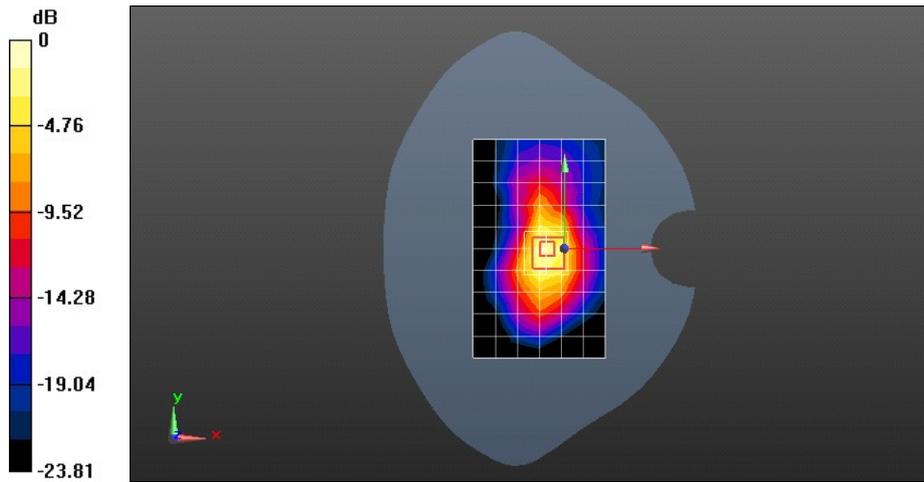
Communication System: LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM); Frequency: 1745 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.474$ S/m; $\epsilon_r = 51.81$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY Configuration:

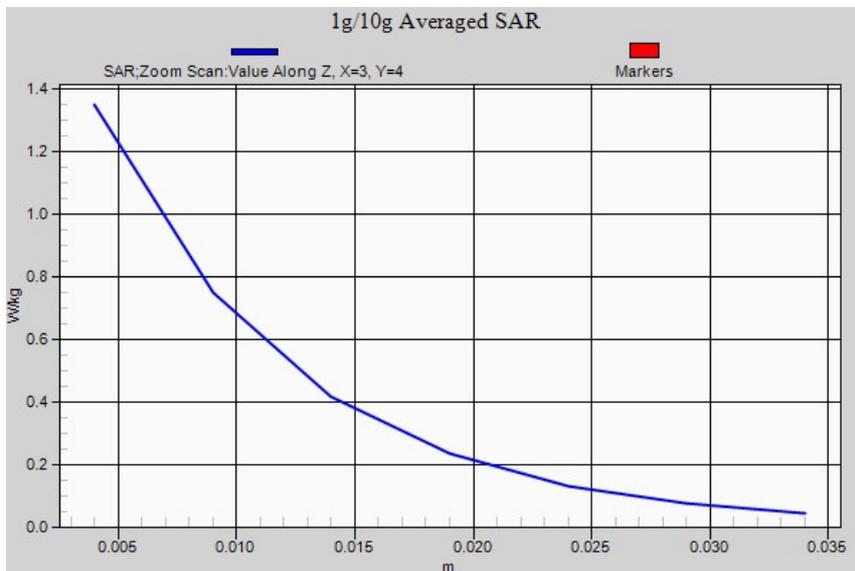
- Probe: EX3DV4 - SN3898; ConvF(8.04, 8.04, 8.04); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 1.09 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 27.230 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 2.22 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.593 W/kg
 Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-505 LTE Band V 10M QPSK 50%RB#13 20600CH Back side 5mm

DUT: E3276s-505; Type: LTE USB Rotator; Serial: SAR1

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

Medium parameters used: $f = 844$ MHz; $\sigma = 0.984$ S/m; $\epsilon_r = 54.865$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.58, 9.58, 9.58); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.24 W/kg

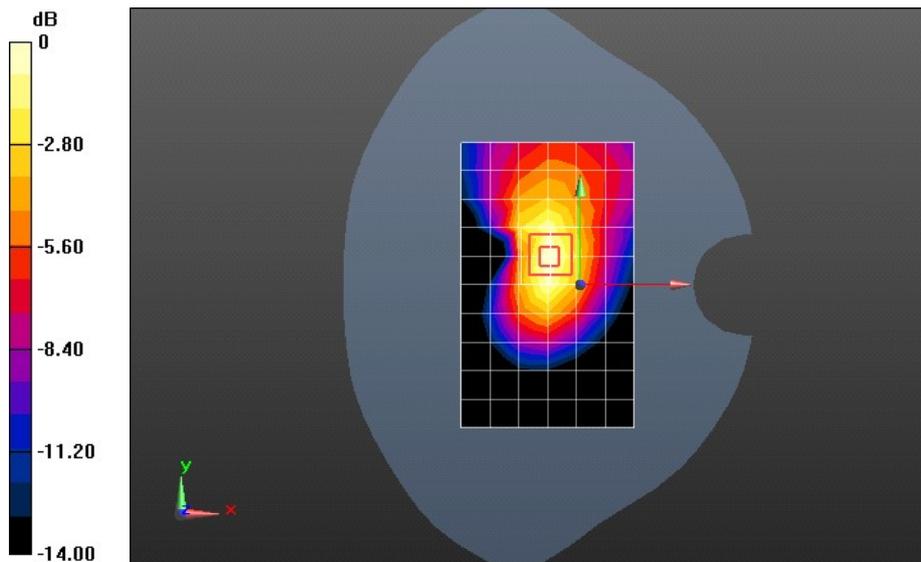
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 32.126 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.615 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.71 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 1RB#25 23230CH Front Side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.979 W/kg

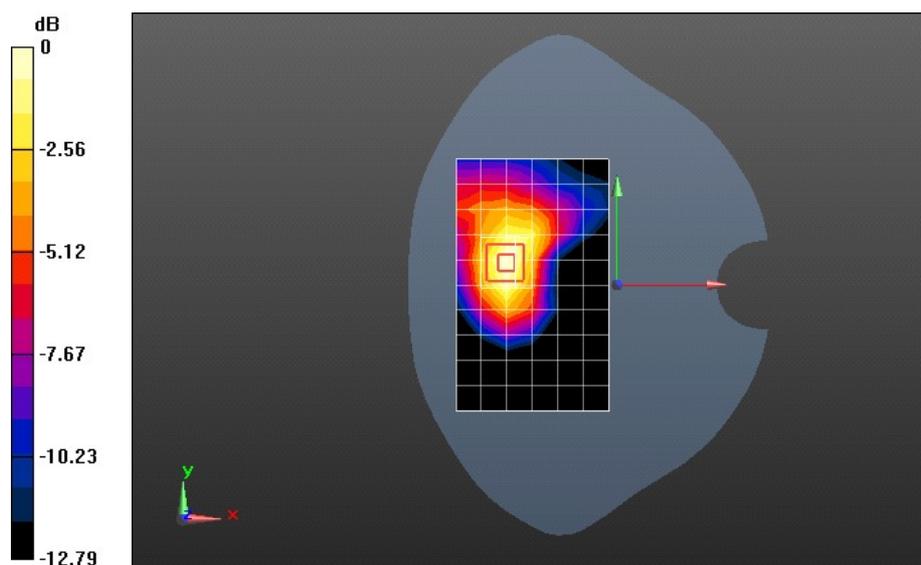
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.431 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.517 W/kg

Maximum value of SAR (measured) = 0.950 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 1RB#25 23230CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.910 W/kg

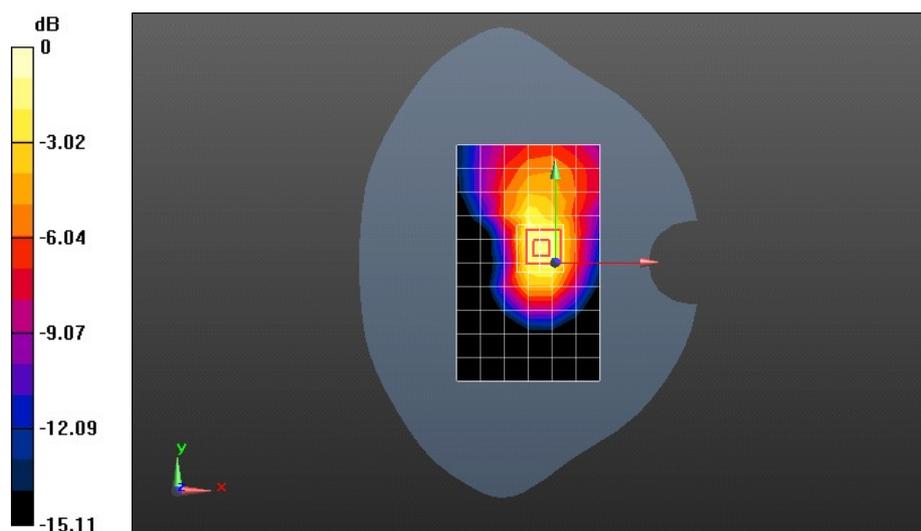
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 26.756 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.613 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.59 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 1RB#25 23230CH Back side 5mm-repeated

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.995 \text{ S/m}$; $\epsilon_r = 55.034$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.931 W/kg

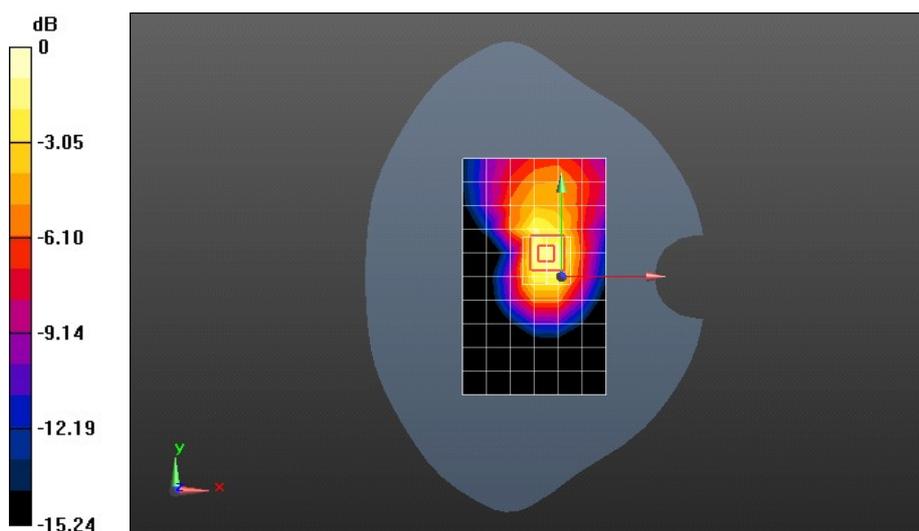
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.302 V/m; Power Drift = -0.06 dB

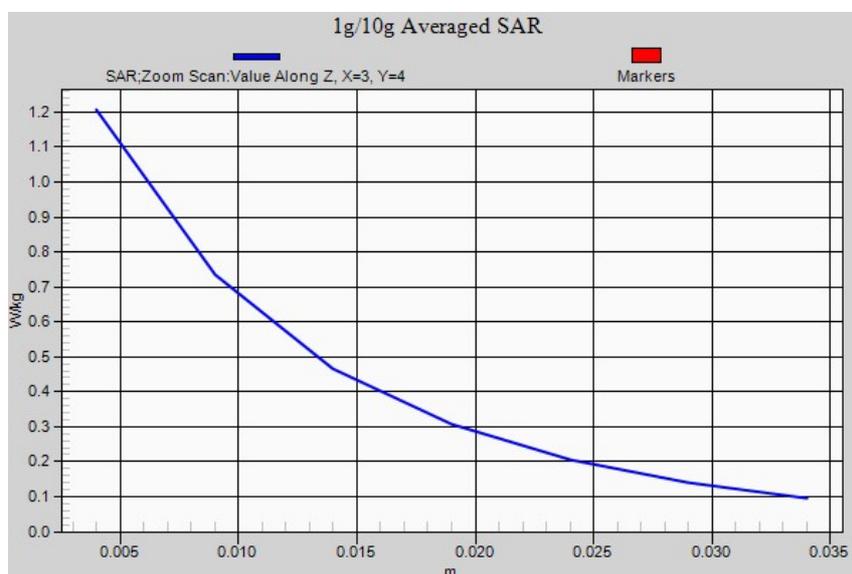
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.632 W/kg

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 1RB#25 23230CH Left side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.199 W/kg

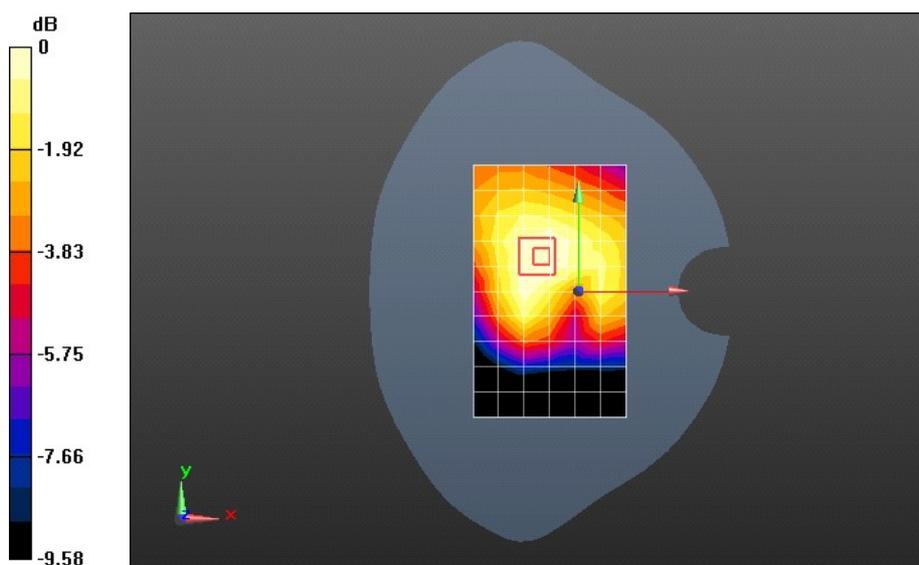
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.980 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.203 W/kg



0 dB = 0.203 W/kg = -6.93 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 1RB#25 23230CH Right side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.930 W/kg

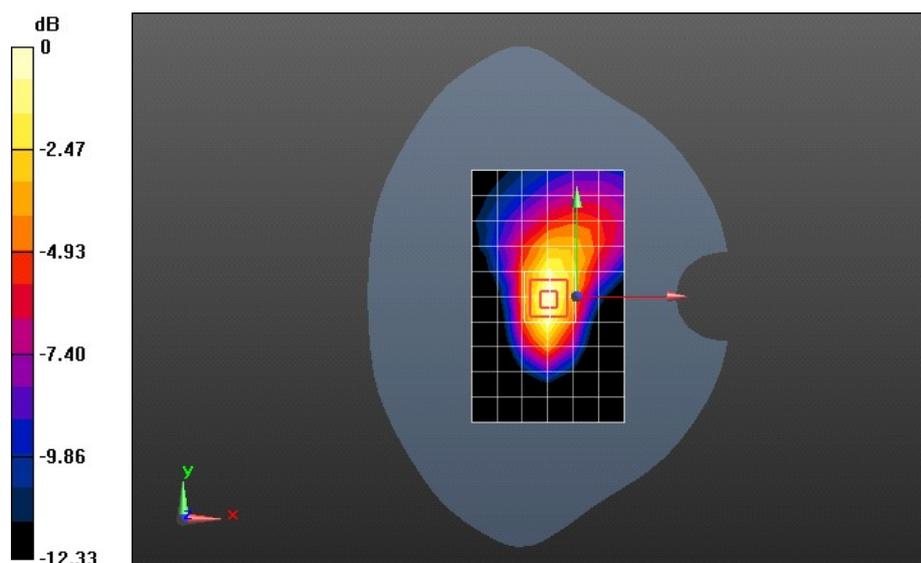
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 30.458 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.844 W/kg; SAR(10 g) = 0.487 W/kg

Maximum value of SAR (measured) = 0.923 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 50%RB#13 23230CH Front Side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

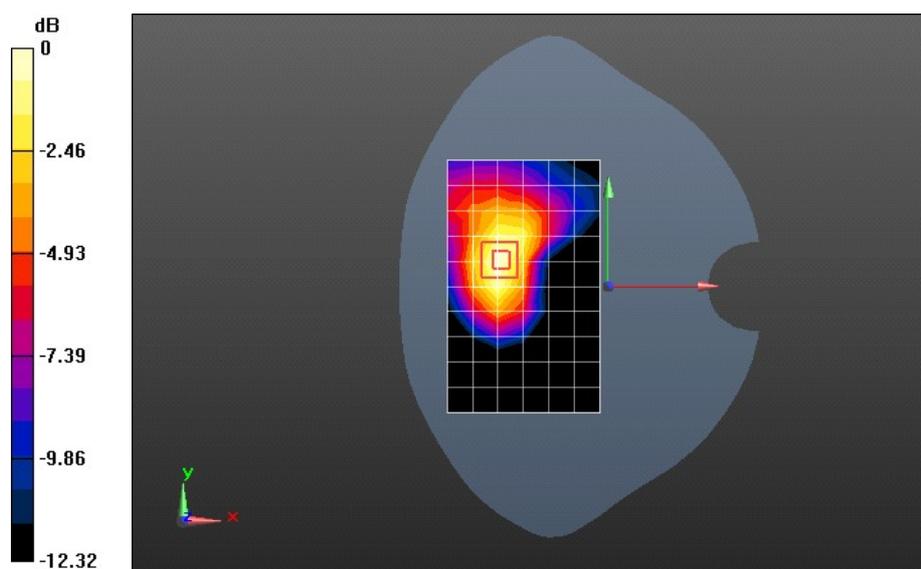
Maximum value of SAR (measured) = 1.04 W/kg

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

Reference Value = 3.007 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.955 W/kg; SAR(10 g) = 0.591 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 50%RB#13 23230CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.864 W/kg

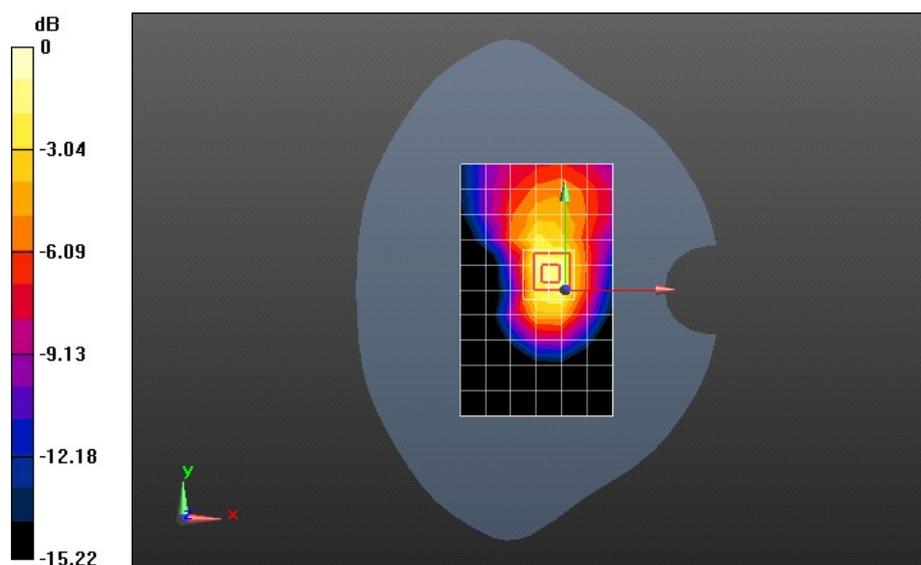
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 26.295 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.599 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 50%RB#13 23230CH Left side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.206 W/kg

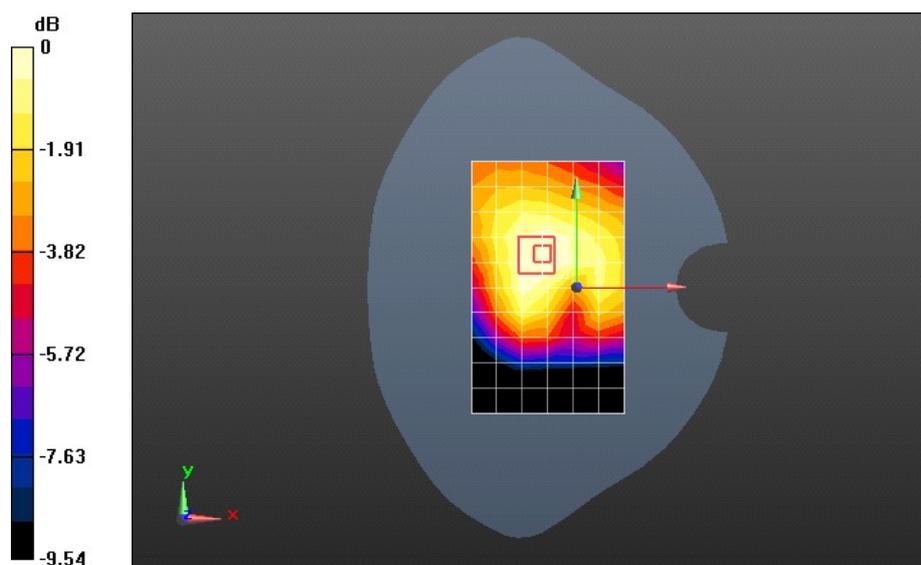
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 13.002 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg = -6.72 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 50%RB#13 23230CH Right side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.902 W/kg

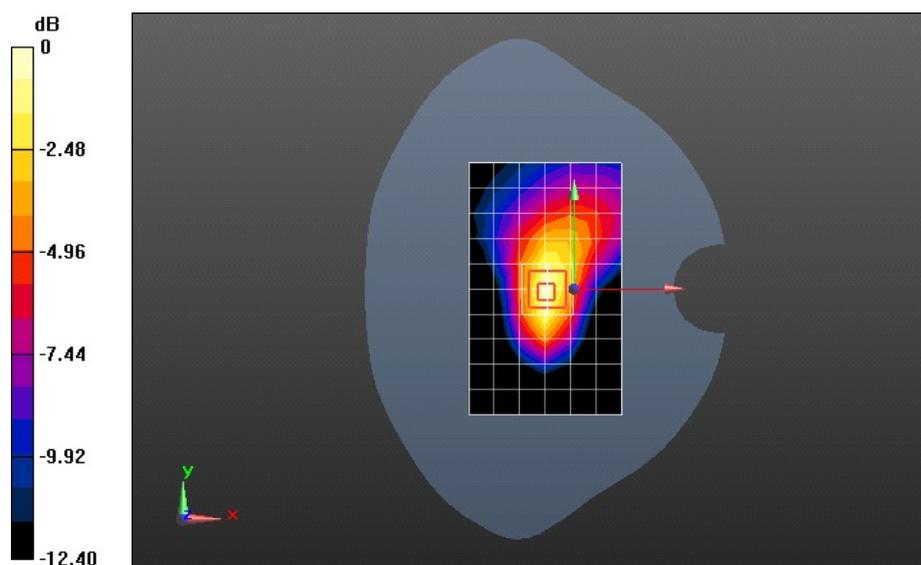
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 29.835 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.838 W/kg; SAR(10 g) = 0.487 W/kg

Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.916 W/kg = -0.38 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 100%RB#0 23230CH Front Side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.945 W/kg

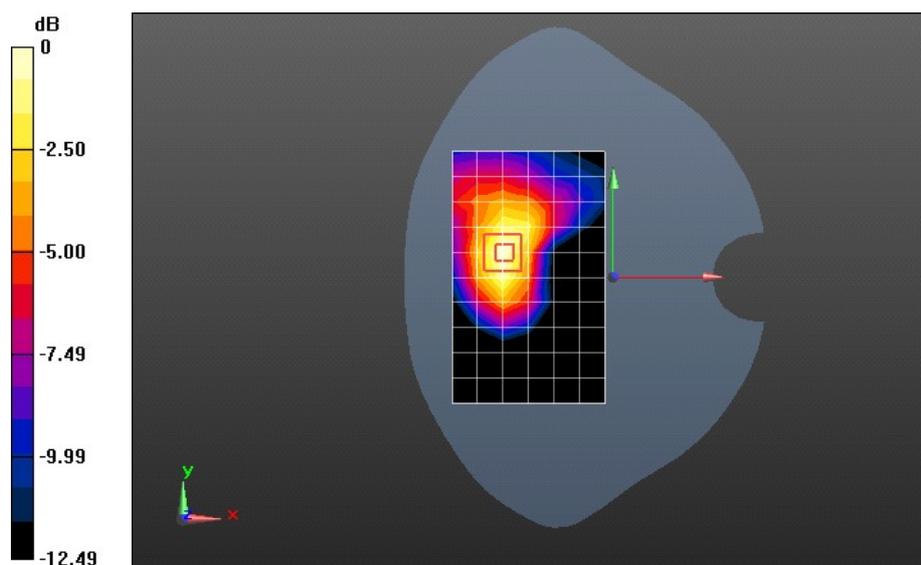
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.290 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.865 W/kg; SAR(10 g) = 0.534 W/kg

Maximum value of SAR (measured) = 0.943 W/kg



0 dB = 0.943 W/kg = -0.25 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 100%RB#0 23230CH Back side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.851 W/kg

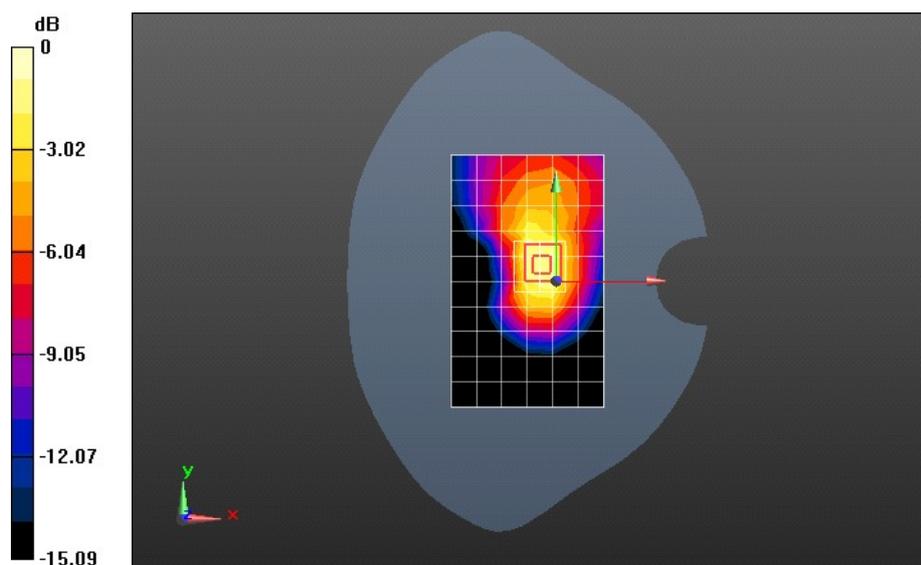
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 25.921 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.564 W/kg

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



0 dB = 1.07 W/kg = 0.30 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

E3276s-503 LTE Band XIII 10M QPSK 100%RB#0 23230CH Right side 5mm

DUT: E3276s-503; Type: LTE USB Rotator; Serial: SAR1

Communication System: LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.87, 9.87, 9.87); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2012-11-23
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.792 W/kg

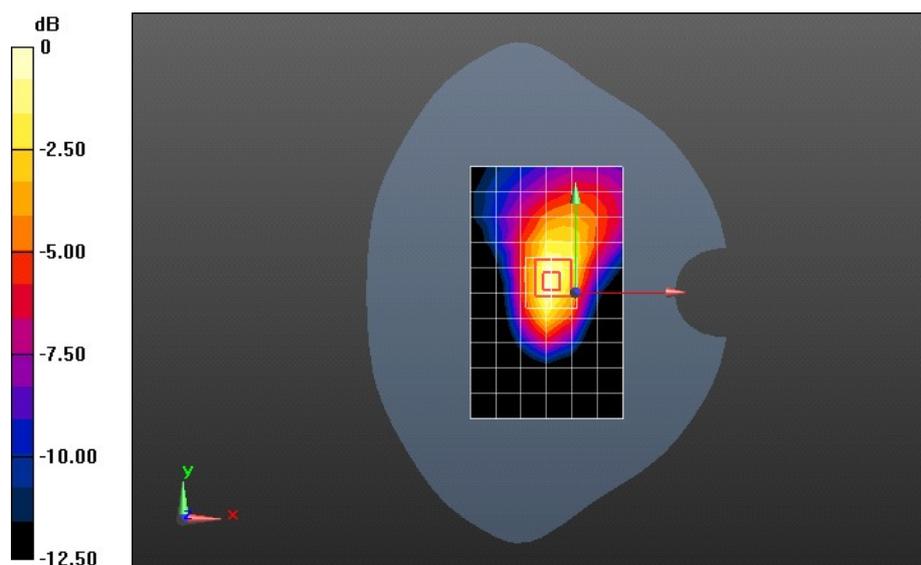
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 27.981 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.461 W/kg

Maximum value of SAR (measured) = 0.869 W/kg



0 dB = 0.869 W/kg = -0.61 dBW/kg