



Appendix B. SAR Measurement Plots

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Test Laboratory: HUAWEI SAR Lab

U8651S GSM850 190CH Right hand touched cheek

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: HW-GSM\GPRS\EGPRS-1TS; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.914$ mho/m; $\epsilon_r = 41.429$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(9.01, 9.01, 9.01); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.612 mW/g

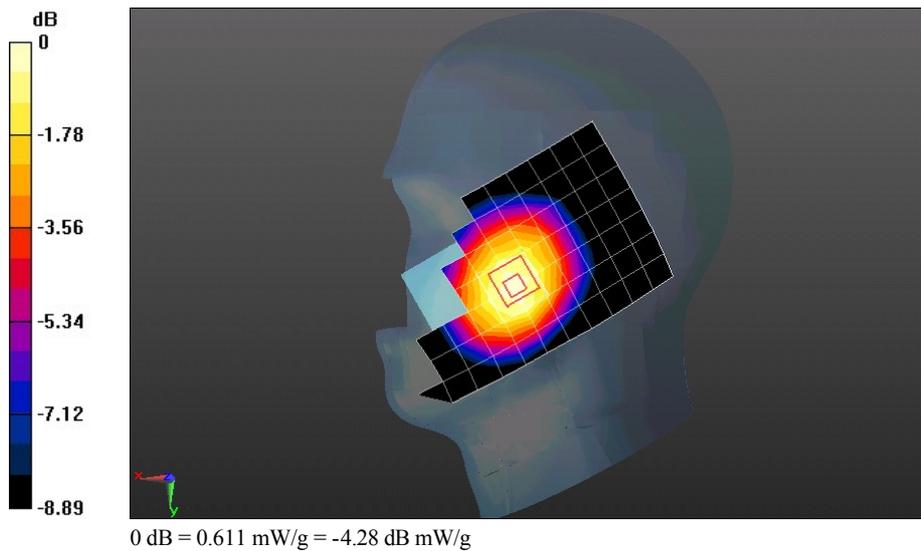
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.866 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.737 mW/g

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.429 mW/g

Maximum value of SAR (measured) = 0.611 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S GSM850 GPRS 2TS 190CH Towards Ground 10mm

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: HW-GSM\GPRS\EGPRS-2TS; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.994$ mho/m; $\epsilon_r = 54.502$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.98, 8.98, 8.98); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.915 mW/g

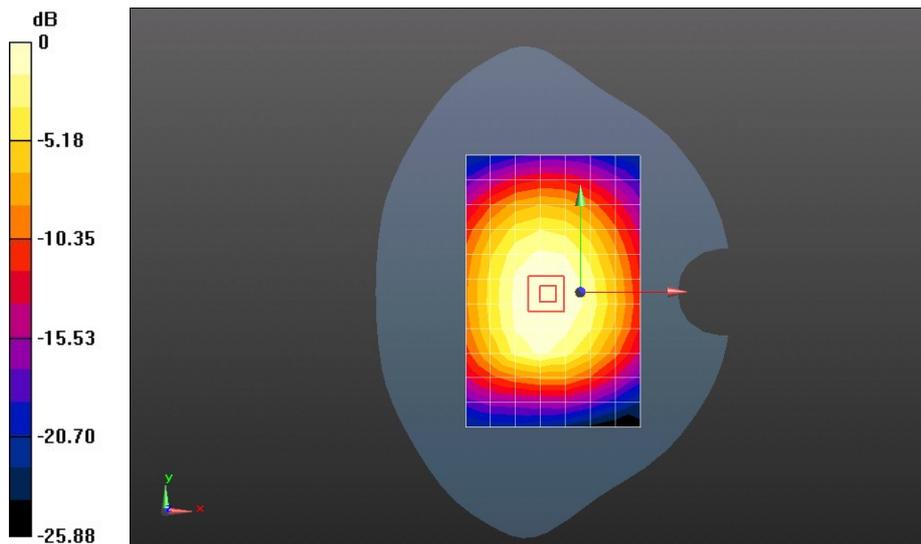
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 31.205 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.155 mW/g

SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.656 mW/g

Maximum value of SAR (measured) = 0.942 mW/g



0 dB = 0.915 mW/g = -0.77 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U8651S GSM1900 661CH Left hand touched cheek**DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1**

Communication System: HW-GSM\GPRS\EGPRS-1TS; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.434$ mho/m; $\epsilon_r = 39.851$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.67, 7.67, 7.67); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.476 mW/g

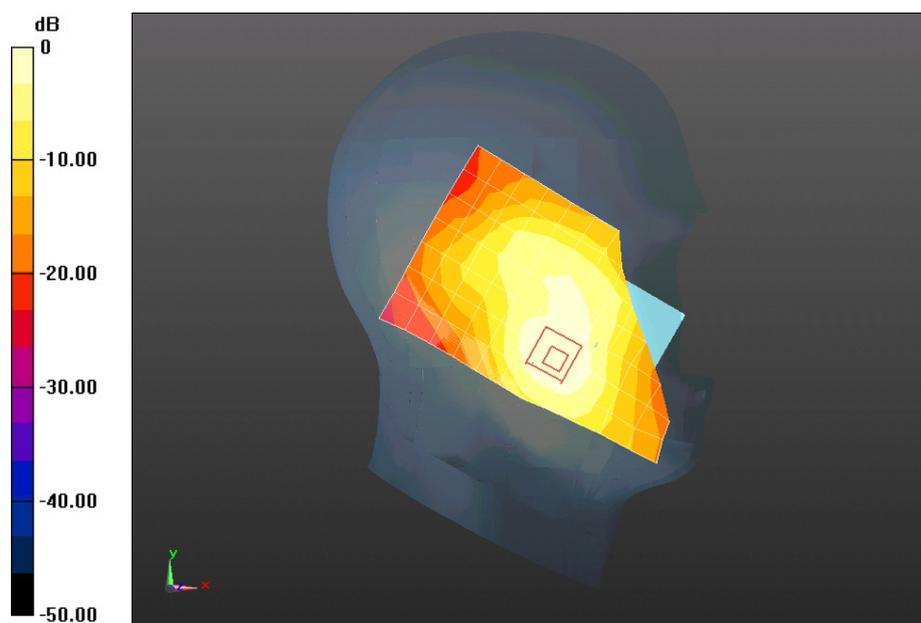
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.695 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.734 mW/g

SAR(1 g) = 0.461 mW/g; SAR(10 g) = 0.271 mW/g

Maximum value of SAR (measured) = 0.501 mW/g



0 dB = 0.476 mW/g = -6.45 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U8651S GSM1900 EGPRS 2TS 661CH Towards Phantom 10mm

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: HW-GSM\GPRS\EGPRS-2TS; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.536$ mho/m; $\epsilon_r = 52.98$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.14, 7.14, 7.14); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.507 mW/g

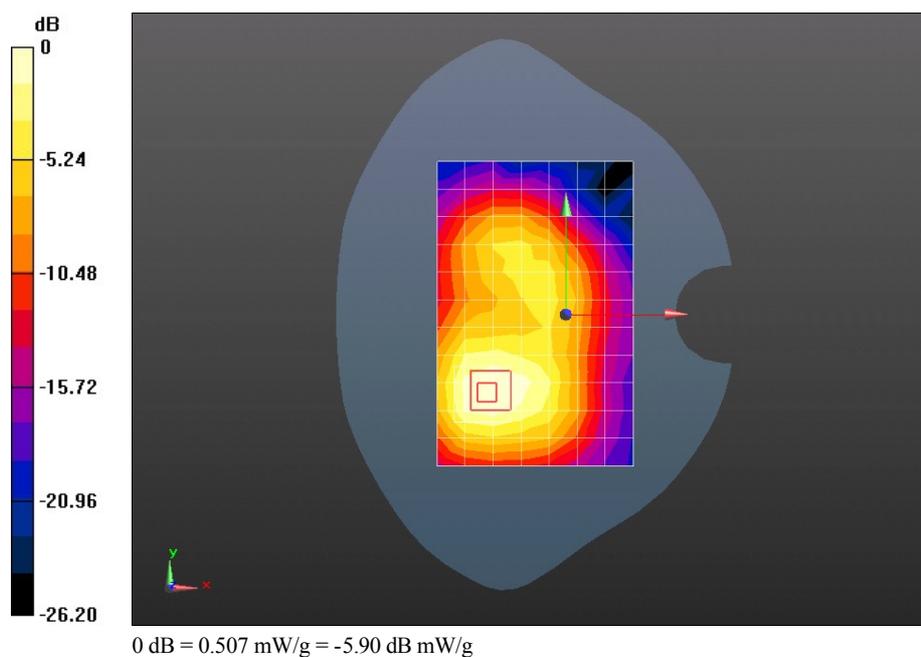
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.183 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.777 mW/g

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.302 mW/g

Maximum value of SAR (measured) = 0.540 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S WCDMA850 4182CH Right hand touched cheek

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: HW-UMTS-FDD(WCDMA); Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 41.524$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(9.01, 9.01, 9.01); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

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

Maximum value of SAR (measured) = 0.394 mW/g

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

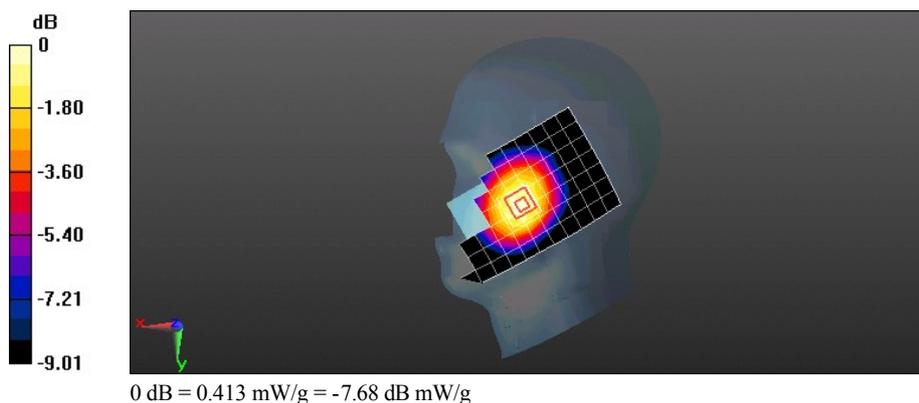
Reference Value = 5.934 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.502 mW/g

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.293 mW/g

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

Maximum value of SAR (measured) = 0.413 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S WCDMA850 4182CH Towards Ground 10mm

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: HW-UMTS-FDD(WCDMA); Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.993$ mho/m; $\epsilon_r = 56.502$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.98, 8.98, 8.98); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

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

Maximum value of SAR (measured) = 0.917 mW/g

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

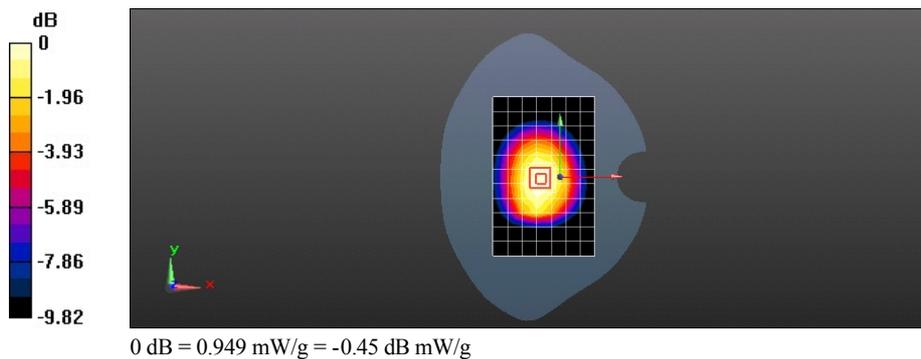
Reference Value = 31.087 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.178 mW/g

SAR(1 g) = 0.895 mW/g; SAR(10 g) = 0.653 mW/g

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

Maximum value of SAR (measured) = 0.949 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S WCDMA1700 1513CH Left hand touched cheek**DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1**

Communication System: HW-UMTS-FDD(WCDMA); Frequency: 1752.6 MHz

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.426$ mho/m; $\epsilon_r = 40.481$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.94, 7.94, 7.94); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 1.08 mW/g

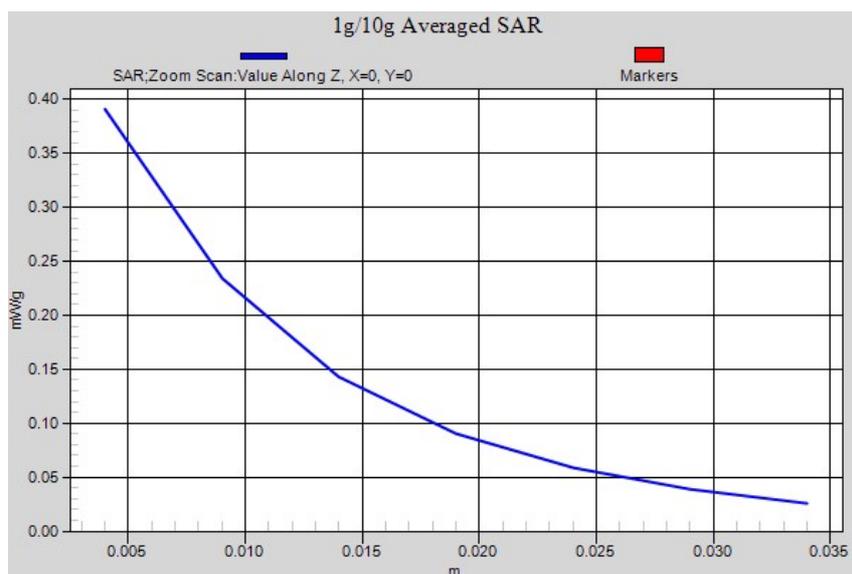
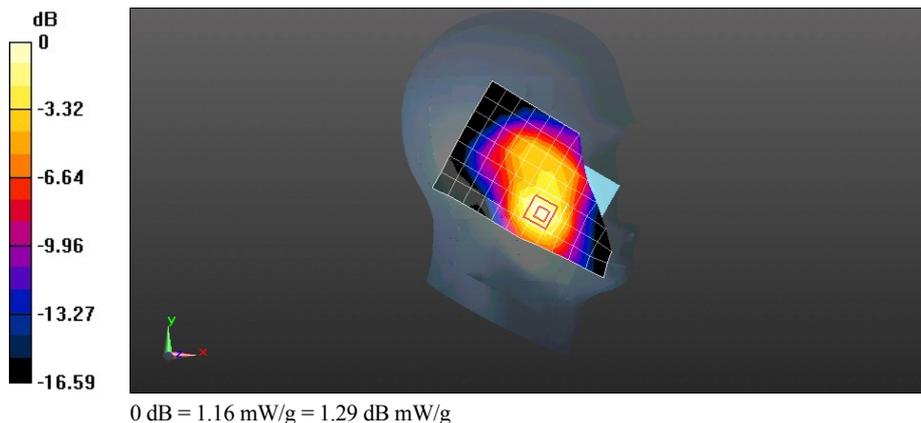
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.723 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.671 mW/g

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.633 mW/g

Maximum value of SAR (measured) = 1.16 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S WCDMA1700 1312CH Towards Phantom 10mm**DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1**

Communication System: HW-UMTS-FDD(WCDMA); Frequency: 1712.4 MHz

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.446$ mho/m; $\epsilon_r = 53.063$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.43, 7.43, 7.43); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.06 mW/g

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

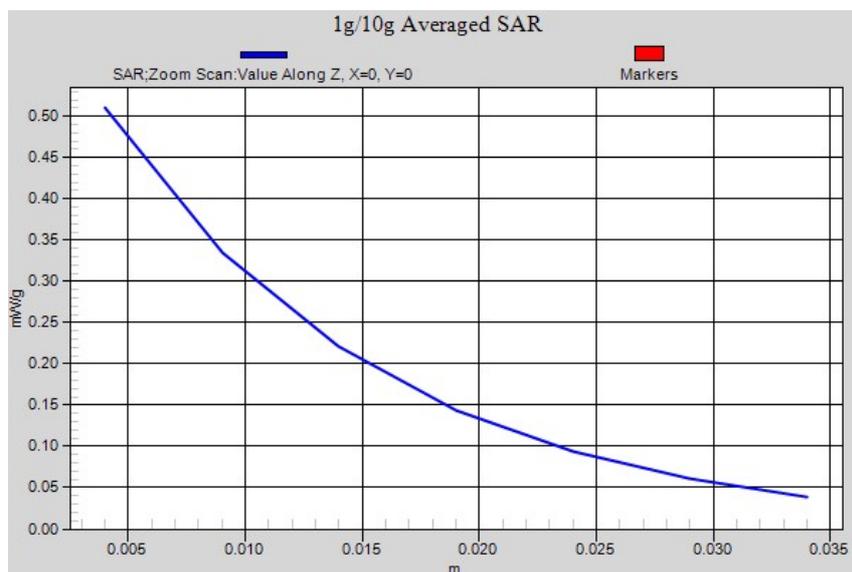
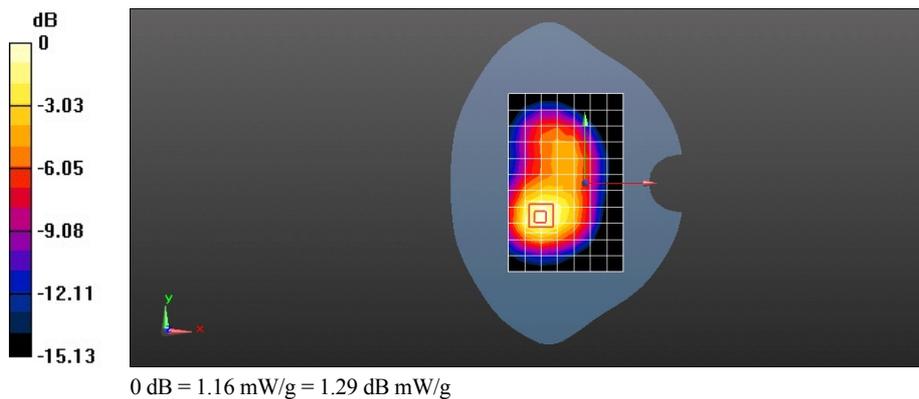
Reference Value = 16.870 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.701 mW/g

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.647 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.16 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S WCDMA1900 9400CH Left hand touched cheek

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.434$ mho/m; $\epsilon_r = 39.851$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.67, 7.67, 7.67); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.843 mW/g

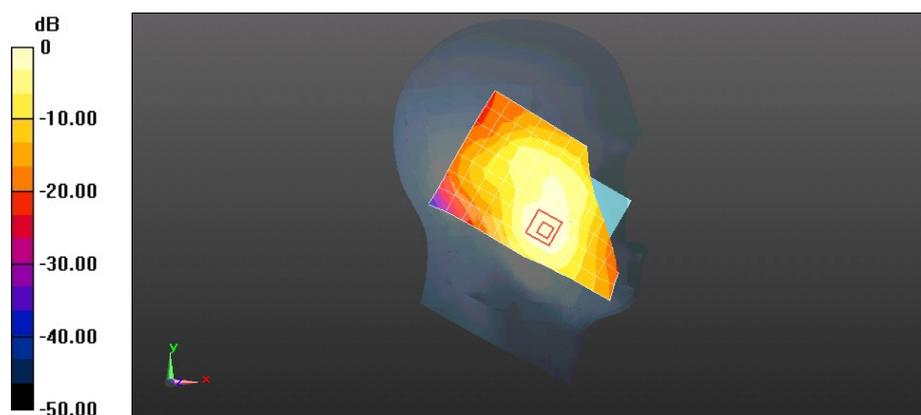
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.587 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.323 mW/g

SAR(1 g) = 0.828 mW/g; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 0.902 mW/g



0 dB = 0.843 mW/g = -1.48 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U8651S WCDMA1900 9400CH Towards Phantom 10mm

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.536$ mho/m; $\epsilon_r = 52.98$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.14, 7.14, 7.14); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.955 mW/g

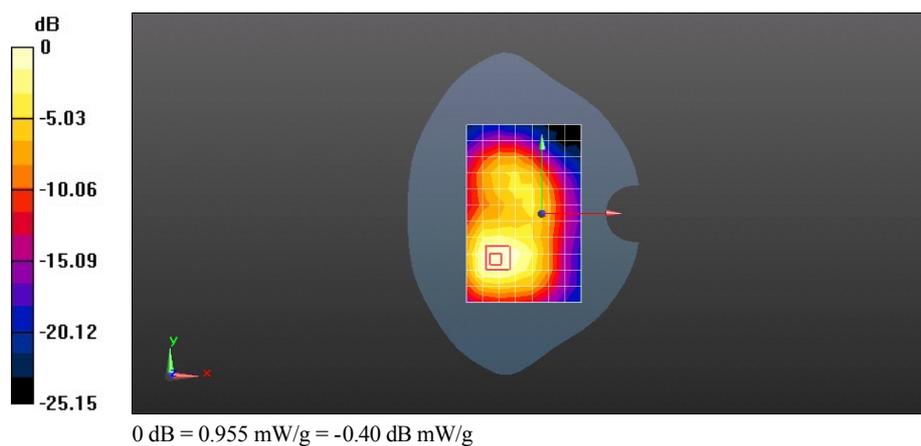
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 13.801 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.489 mW/g

SAR(1 g) = 0.949 mW/g; SAR(10 g) = 0.573 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



Test Laboratory: HUAWEI SAR Lab

U8651S WiFi 11b 6CH Left hand touched cheek

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: WiFi (802.11*); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.801$ mho/m; $\epsilon_r = 40.198$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(6.78, 6.78, 6.78); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.399 mW/g

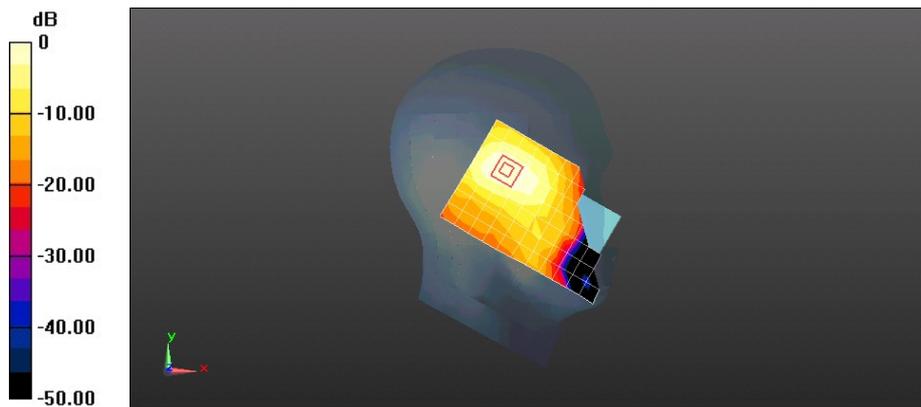
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.288 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.914 mW/g

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.499 mW/g



0 dB = 0.399 mW/g = -7.97 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U8651S WiFi 11b 6CH Towards Ground 10mm

DUT: U8651S; Type: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Serial: SAR1

Communication System: WiFi(802.11b/g/n); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 2.005$ mho/m; $\epsilon_r = 52.298$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(6.85, 6.85, 6.85); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 0.781 mW/g

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

Reference Value = 12.290 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.582 mW/g

SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.332 mW/g

Maximum value of SAR (measured) = 0.860 mW/g

