



APPENDIX A - SAR MEASUREMENT DATA

back side mid ch,836Mhz

DUT: Nielsen Audio;

Communication System: 850MHz GSM; ; Frequency: 836 MHz;Duty Cycle: 1:1

Medium: M900-B Medium parameters used: $f = 836.41$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 53.07$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(8.72, 8.72, 8.72); Calibrated: 7/29/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 7/18/2013
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.775 mW/g

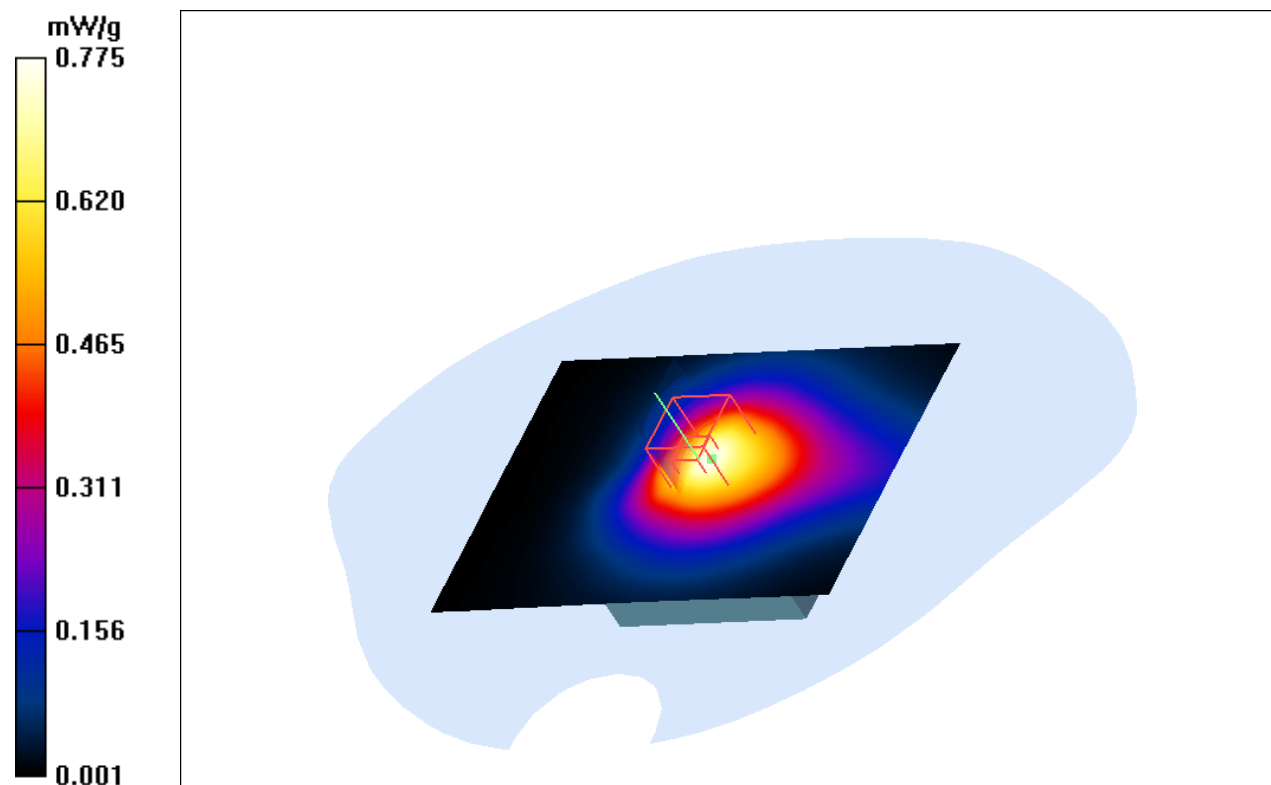
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.7 V/m; Power Drift = -0.404 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.709 mW/g; SAR(10 g) = 0.475 mW/g

Maximum value of SAR (measured) = 0.764 mW/g



back side mid ch,1880Mhz

DUT: Nielsen Audio;

Communication System: 1800MHz GSM; ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: M1800 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(7.1, 7.1, 7.1); Calibrated: 7/29/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn584; Calibrated: 7/18/2013

- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.936 mW/g

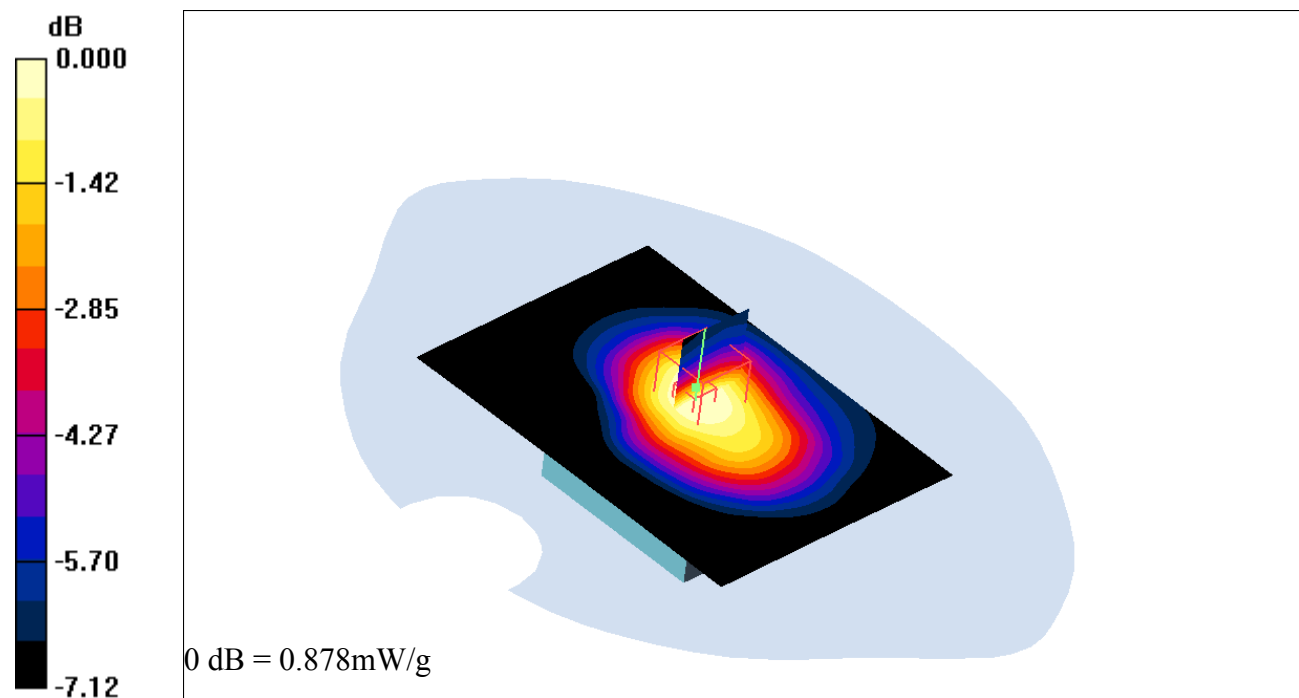
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.1 V/m ; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.796 mW/g ; SAR(10 g) = 0.559 mW/g

Maximum value of SAR (measured) = 0.878 mW/g





APPENDIX B - SYSTEM PERFORMANCE CHECK

835MHz validation

DUT: Dipole 835 MHz;

Communication System: CW; ; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 53.07$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(8.72, 8.72, 8.72); Calibrated: 7/29/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 7/18/2013
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 2.58 mW/g

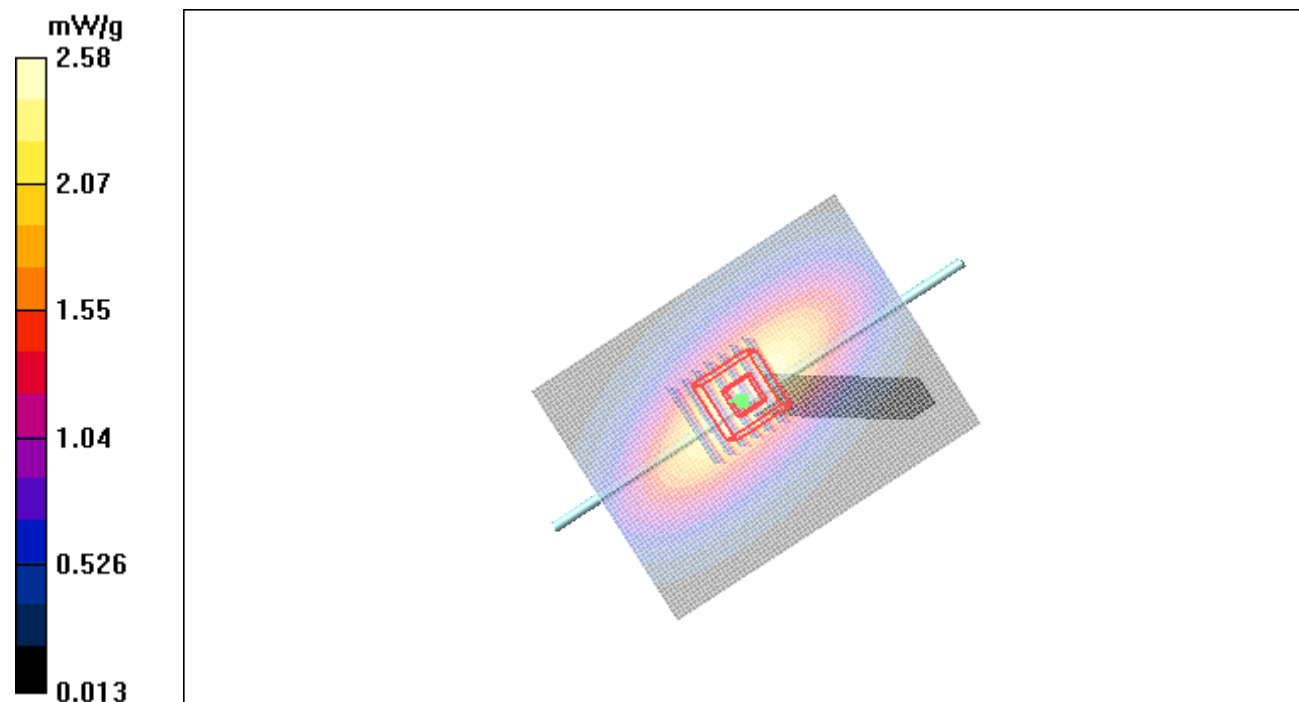
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 54.3 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.53 mW/g

Maximum value of SAR (measured) = 2.56 mW/g



1800MHz Body validation

DUT: D1800; Type: 1S2672

Communication System: CW; ; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used: $f = 1800$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(7.1, 7.1, 7.1); Calibrated: 7/29/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 7/18/2013
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW/Area Scan (51x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 12.0 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 84.0 V/m; Power Drift = -0.137 dB
Peak SAR (extrapolated) = 19.2 W/kg
SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.5 mW/g
Maximum value of SAR (measured) = 11.9 mW/g

