

APPENDIX A – SAR TEST PLOTS

Test Laboratory: HCT

Channel : F1(461.0338 MHz)
Liquid Temperature : 21.2 °C
Date Tested : May 25, 2006

DUT: BR777 (Head); Type: Bar; Serial: #1

Communication System: 450MHz; Frequency: 461.034 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 461.034$ MHz; $\sigma = 0.866$ mho/m; $\epsilon_r = 45.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.21, 7.21, 7.21); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 835/900 MHz; Type: SAM

450 HEAD 1/Area Scan (61x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.35 mW/g

450 HEAD 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

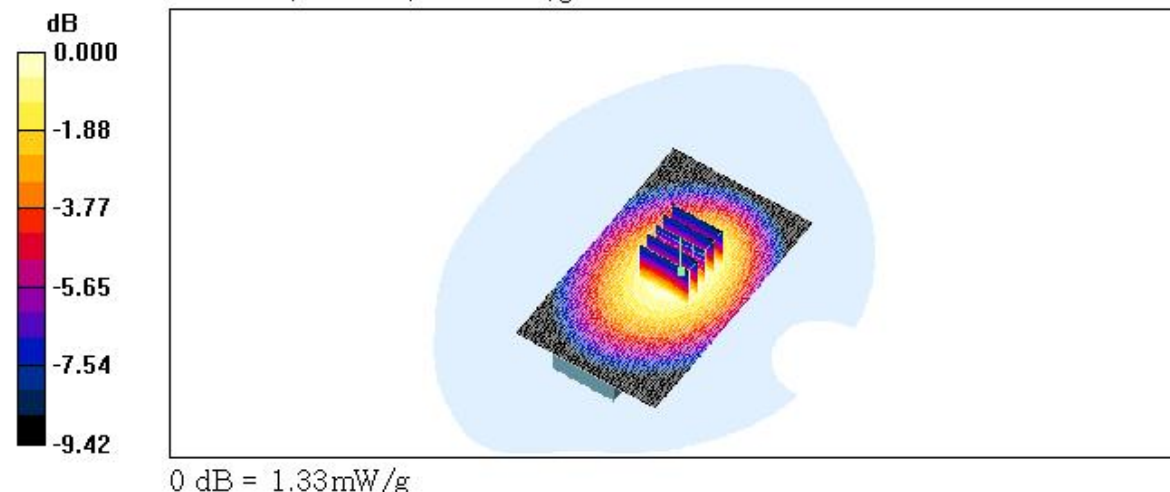
Reference Value = 38.6 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.878 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.33 mW/g



Test Laboratory: HCT

Channel : F2(464.4936 MHz)

Liquid Temperature : 21.2 °C

Date Tested : May 25, 2006

DUT: BR777 (Head); Type: Bar; Serial: #1

Communication System: 450MHz; Frequency: 464.494 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 465$ MHz; $\sigma = 0.872$ mho/m; $\epsilon_r = 45.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.21, 7.21, 7.21); Calibrated: 2005-08-30

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

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: SAM 835/900 MHz; Type: SAM

450 HEAD 2/Area Scan (61x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Maximum value of SAR (interpolated) = 1.21 mW/g

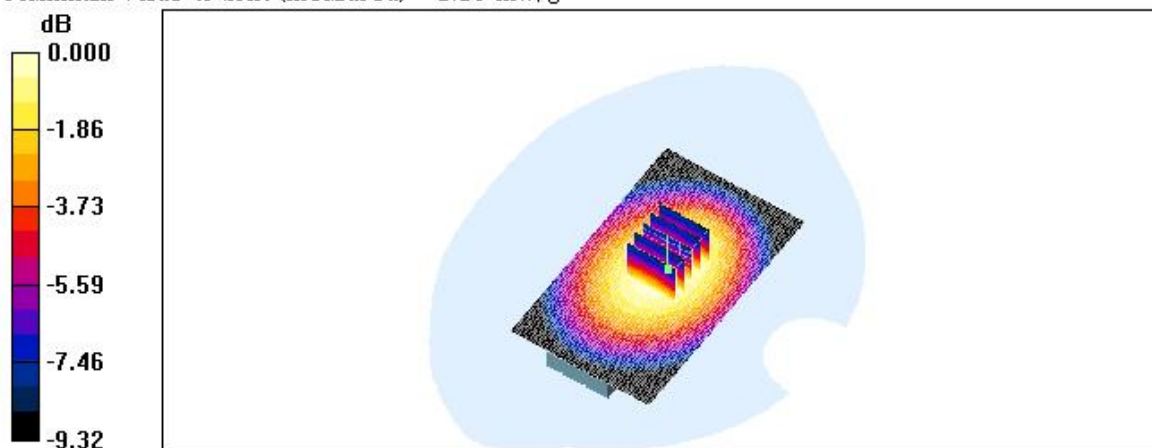
450 HEAD 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

Reference Value = 37.4 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.784 mW/g

Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

Test Laboratory: HCT

Channel : F4(469.5621MHz)
Liquid Temperature : 21.2 °C
Date Tested : May 25, 2006

DUT: BR777 (Head); Type: Bar; Serial: #1

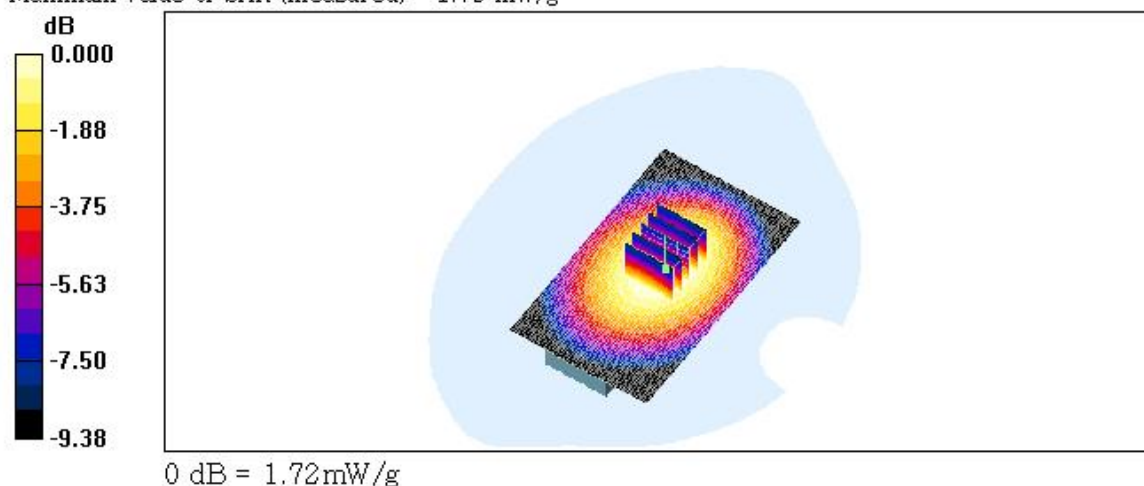
Communication System: 450MHz; Frequency: 469.562 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 45.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.21, 7.21, 7.21); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 835/900 MHz; Type: SAM

450 HEAD 4/Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (interpolated) = 1.84 mW/g

450 HEAD 4/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 46.1 V/m; Power Drift = 0.191 dB
Peak SAR (extrapolated) = 2.59 W/kg
SAR(1 g) = 1.65 mW/g; SAR(10 g) = 1.15 mW/g
Maximum value of SAR (measured) = 1.72 mW/g



Test Laboratory: HCT

Channel : F1(461.0338 MHz)

Liquid Temperature : 21.2 °C

Date Tested : May 25, 2006

DUT: BR777 (Body); Type: Bar; Serial: #1

Communication System: 450MHz; Frequency: 461.034 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 461.034$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.14, 7.14, 7.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 835/900 MHz; Type: SAM

450 BODY 1/Area Scan (61x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.27 mW/g

450 BODY 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

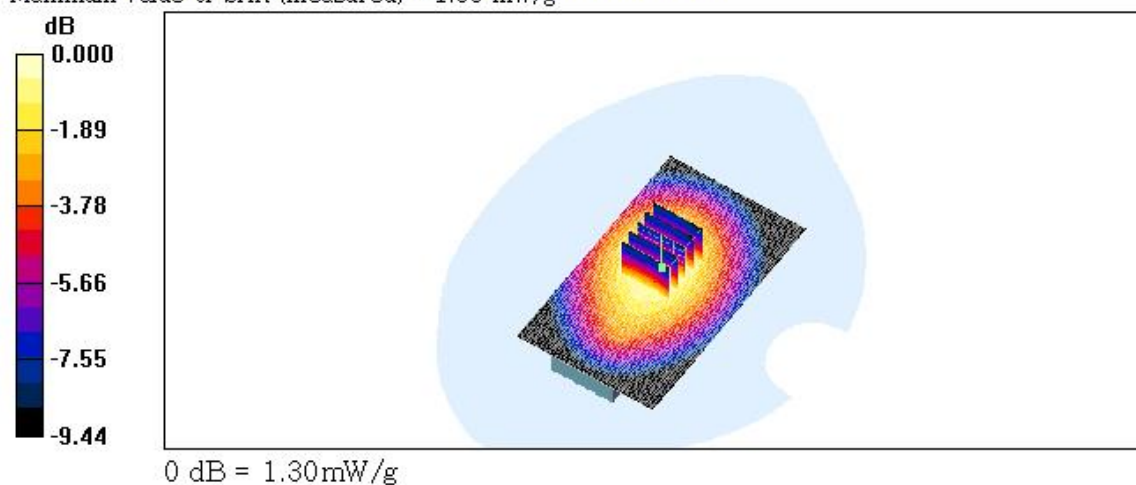
Reference Value = 37.4 V/m; Power Drift = -0.261 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.822 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.30 mW/g



Test Laboratory: HCT

Channel : F2(464.4936 MHz)

Liquid Temperature : 21.2 °C

Date Tested : May 25, 2006

DUT: BR777 (Body); Type: Bar; Serial: #1

Communication System: 450MHz; Frequency: 464.494 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 465$ MHz; $\sigma = 0.957$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.14, 7.14, 7.14); Calibrated: 2005-08-30

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

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: SAM 835/900 MHz; Type: SAM

450 BODY 2/Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 1.32 mW/g

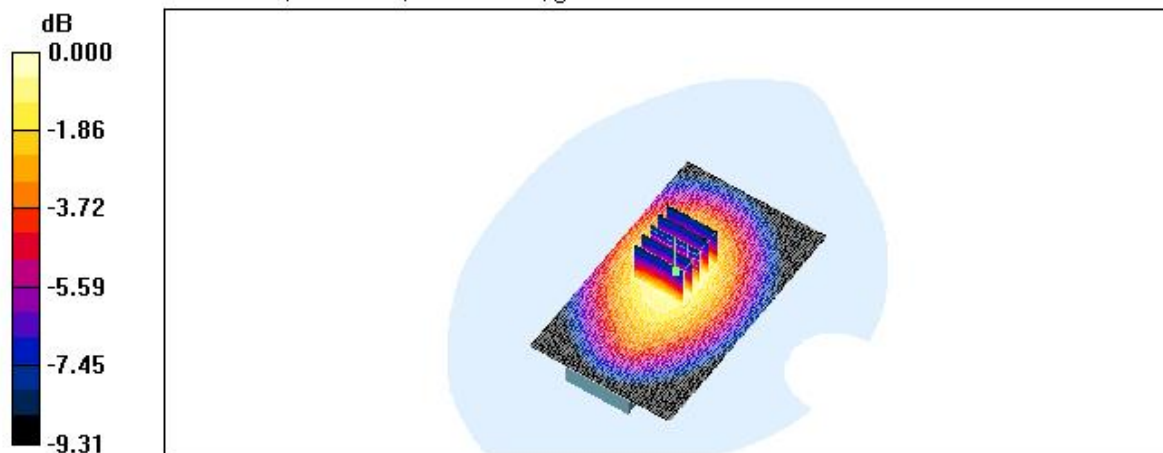
450 BODY 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 37.6 V/m; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.868 mW/g

Maximum value of SAR (measured) = 1.35 mW/g



0 dB = 1.35mW/g

Test Laboratory: HCT

Channel : F4(469.5621 MHz)

Liquid Temperature : 21.2 °C

Date Tested : May 25, 2006

DUT: BR777 (Body); Type: Bar; Serial: #1

Communication System: 450MHz; Frequency: 469.562 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470$ MHz; $\sigma = 0.962$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.14, 7.14, 7.14); Calibrated: 2005-08-30

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

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: SAM 835/900 MHz; Type: SAM

450 BODY 4/Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 1.62 mW/g

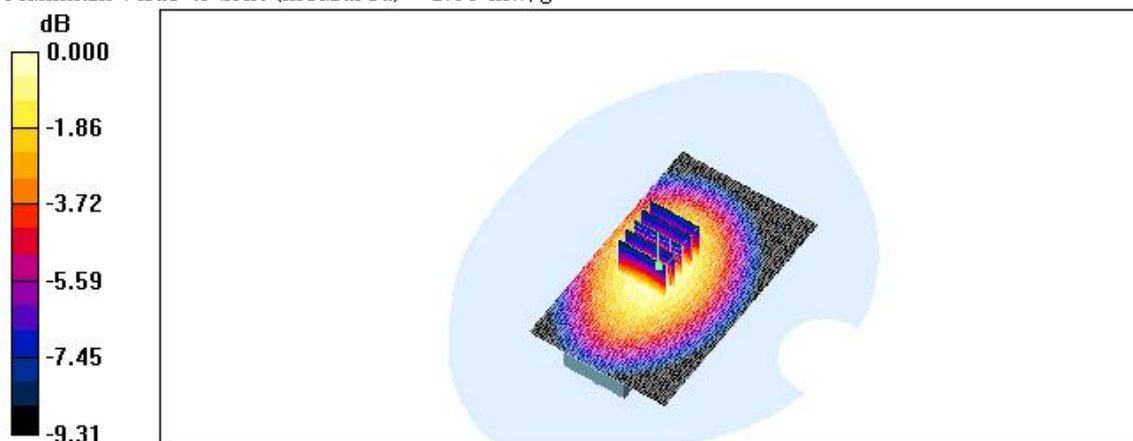
450 BODY 4/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 40.9 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.05 mW/g

Maximum value of SAR (measured) = 1.60 mW/g



0 dB = 1.60mW/g

