

Additional Conversion Factors

for Dosimetric E-Field Probe

Type:

ET3DV6

Serial Number:

1748

Place of Assessment:

Zurich

Date of Assessment:

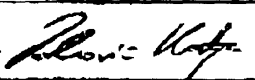
December 28, 2004

Probe Calibration Date:

March 23, 2004

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. The evaluation is coupled with measured conversion factors (probe calibration date indicated above). The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by:



Dosimetric E-Field Probe ET3DV6 SN:1748

Conversion factor ($\pm$ standard deviation)

835 $\pm$ 50 MHz ConvF 6.46 $\pm$ 7%

$\alpha = 41.5 \pm 5\%$
 $\sigma = 0.90 \pm 5\%$ mho/m
(head tissue)

1900 $\pm$ 50 MHz ConvF 5.03 $\pm$ 7%

$\alpha = 40.0 \pm 5\%$
 $\sigma = 1.40 \pm 5\%$ mho/m
(head tissue)

Important Note:

For numerically assessed probe conversion factors, parameters Alpha and Delta in the DASY software must have the following entries: Alpha = 0 and Delta = 1.

Please see also Section 4.7 of the DASY4 Manual.



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Electromagnetic Interference Test Report

Date/Time: 11/23/04 21:09:05

Test Laboratory: ESTECH

LG-MX4170 - CH 383 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.874$
mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

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

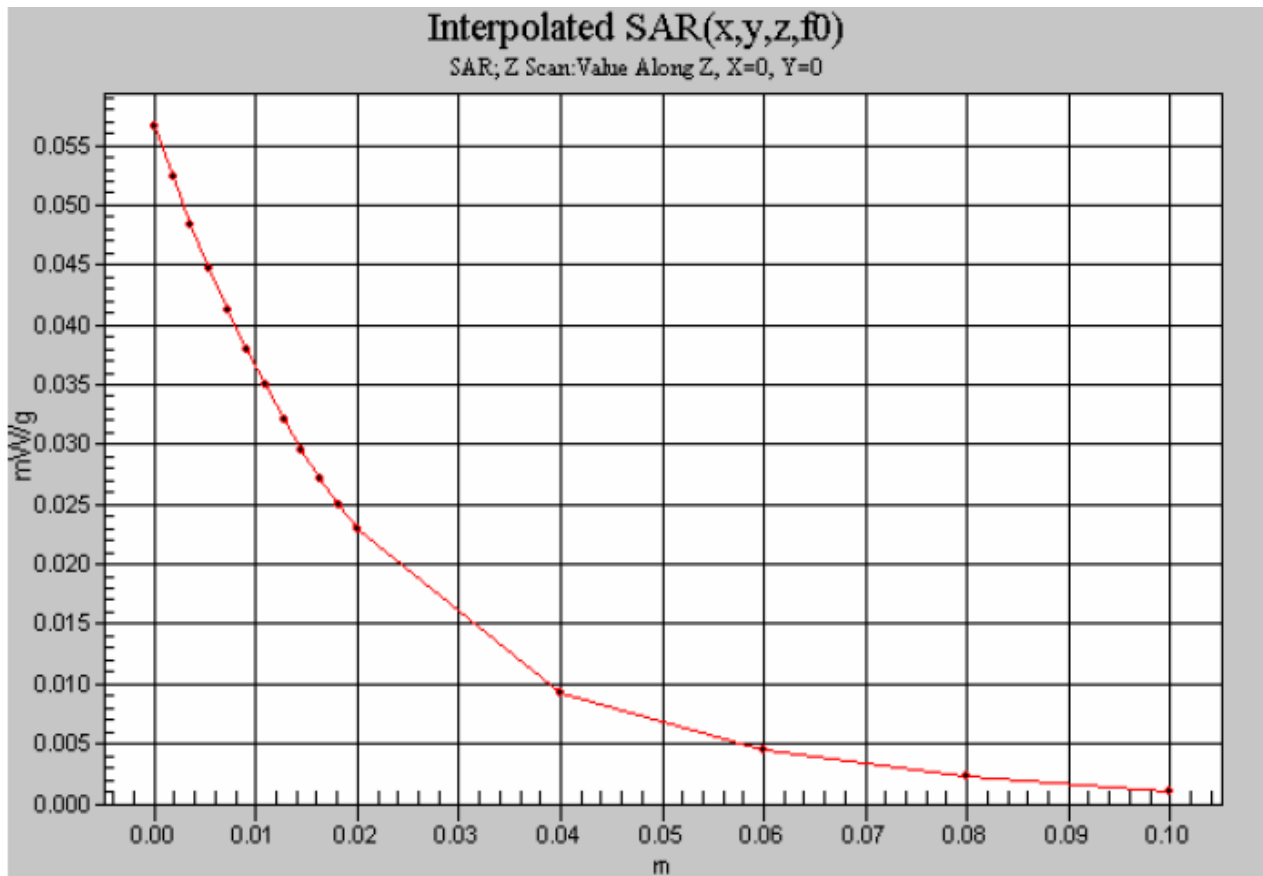
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.17 mW/g

Maximum value of SAR (measured) = 1.23 mW/g





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Electromagnetic Interference Test Report

Date/Time: 11/25/04 12:10:06

Test Laboratory: ESTECH

LG-MX4170 - CH 383 BODY SAR

DUT: LG-MX4170; **Type:** Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); **Serial:** NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.967$ mho/m; $\epsilon_r = 55$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.22, 6.22, 6.22); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.756 mW/g

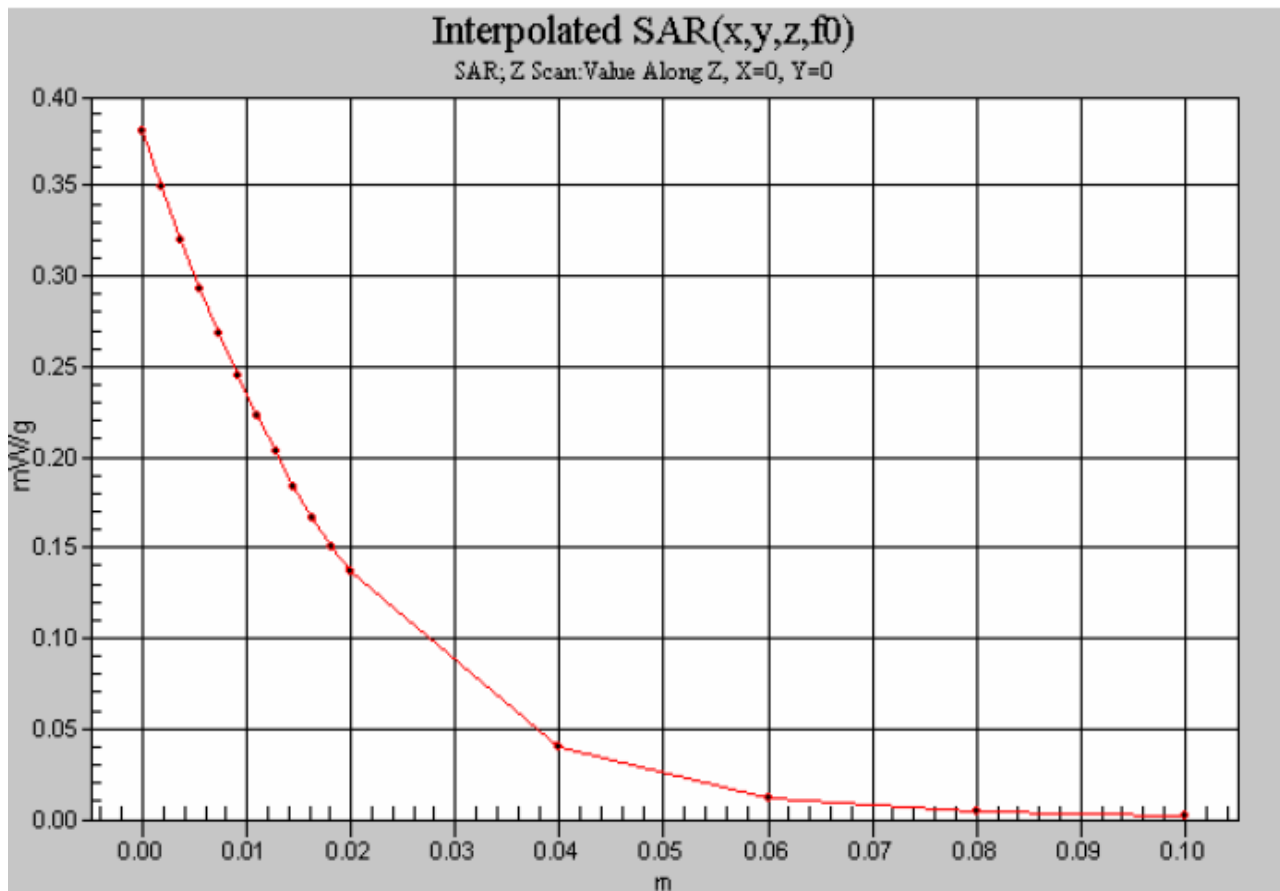
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.977 W/kg

SAR(1 g) = 0.687 mW/g

Maximum value of SAR (measured) = 0.733 mW/g





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Electromagnetic Interference Test Report

Date/Time: 11/23/04 13:07:32

Test Laboratory: ESTECH

LG-MX4170 - CH 363 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: CDMA FCC; Frequency: 835.89 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 835.89$ MHz; $\sigma = 0.873$
 mho/m ; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.689 mW/g

Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.57 V/m; Power Drift = -0.1 dB

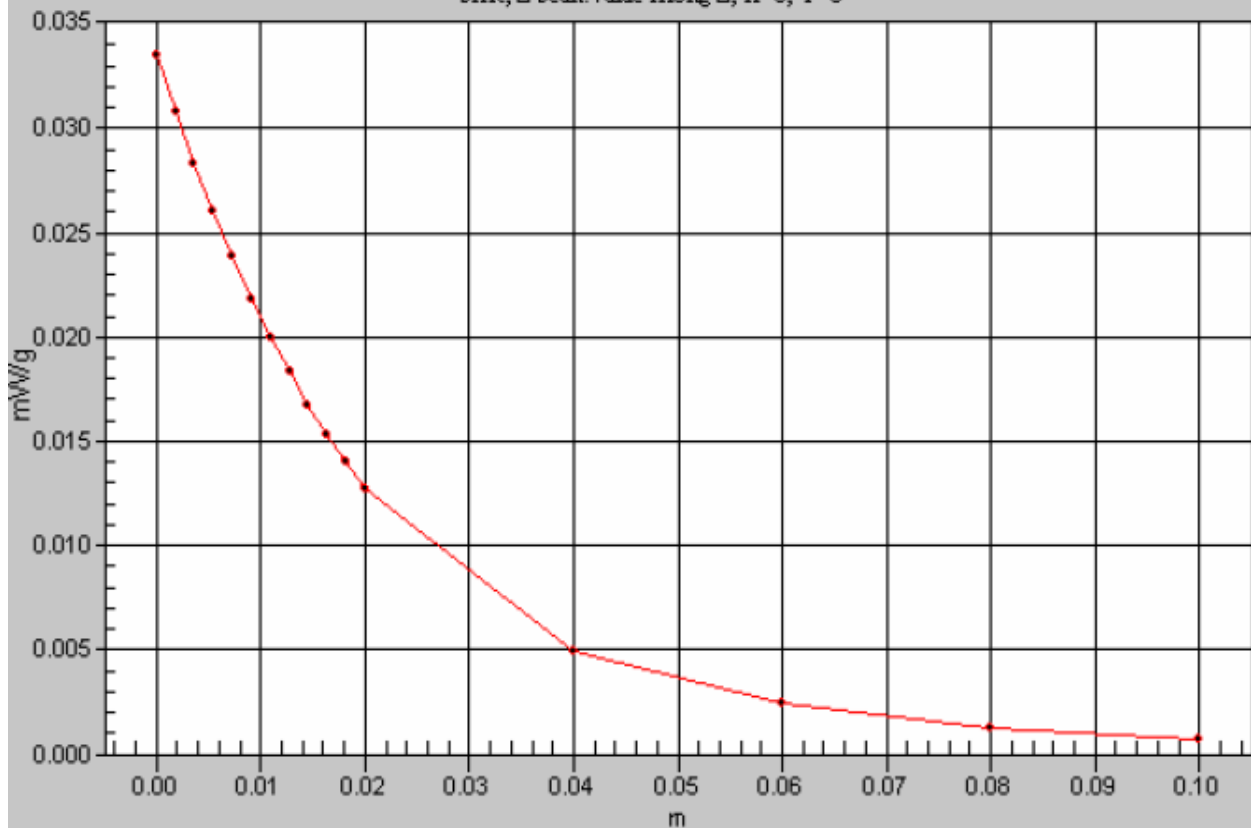
Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.583 mW/g

Maximum value of SAR (measured) = 0.620 mW/g

Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0





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Electromagnetic Interference Test Report

Date/Time: 11/25/04 10:57:08

Test Laboratory: ESTECH

LG-MX4170 - CH 363 BODY SAR

DUT: LG-MX4170; **Type:** Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); **Serial:** NONE

Communication System: CDMA FCC; Frequency: 835.89 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): $f = 835.89$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 55$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.22, 6.22, 6.22); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.380 mW/g

Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.2 V/m; Power Drift = -0.2 dB

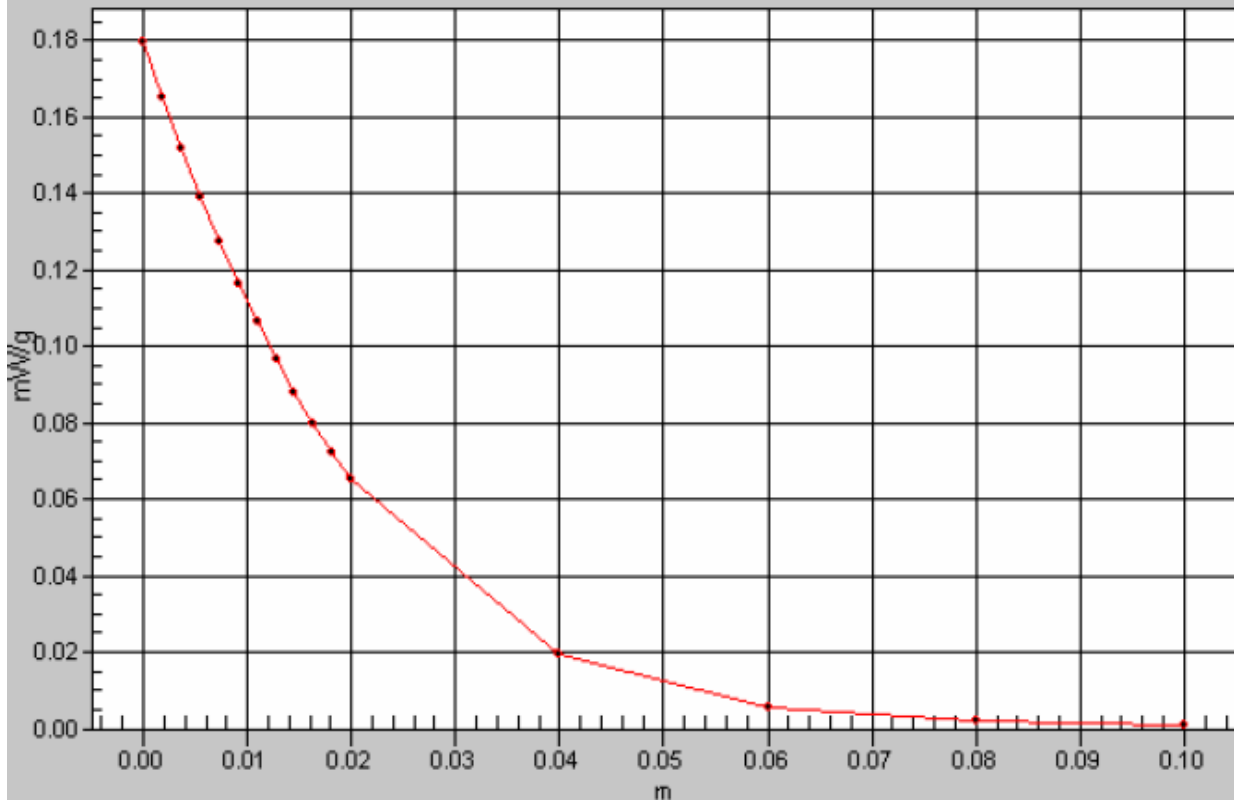
Peak SAR (extrapolated) = 0.490 W/kg

SAR(1 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.371 mW/g

Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0





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Electromagnetic Interference Test Report

Date/Time: 11/24/04 22:36:28

Test Laboratory: ESTECH

LG-MX4170 - CH 1175 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial:
NONE

Communication System: PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium: HSL1950 Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r =$
38.8; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(5.2, 5.2, 5.2); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM MIC 1800Mhz; Type: SAM MIC 1800MHz; Serial: TP-1263
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.53 mW/g

Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm

Reference Value = 8.36 V/m; Power Drift = -0.1 dB

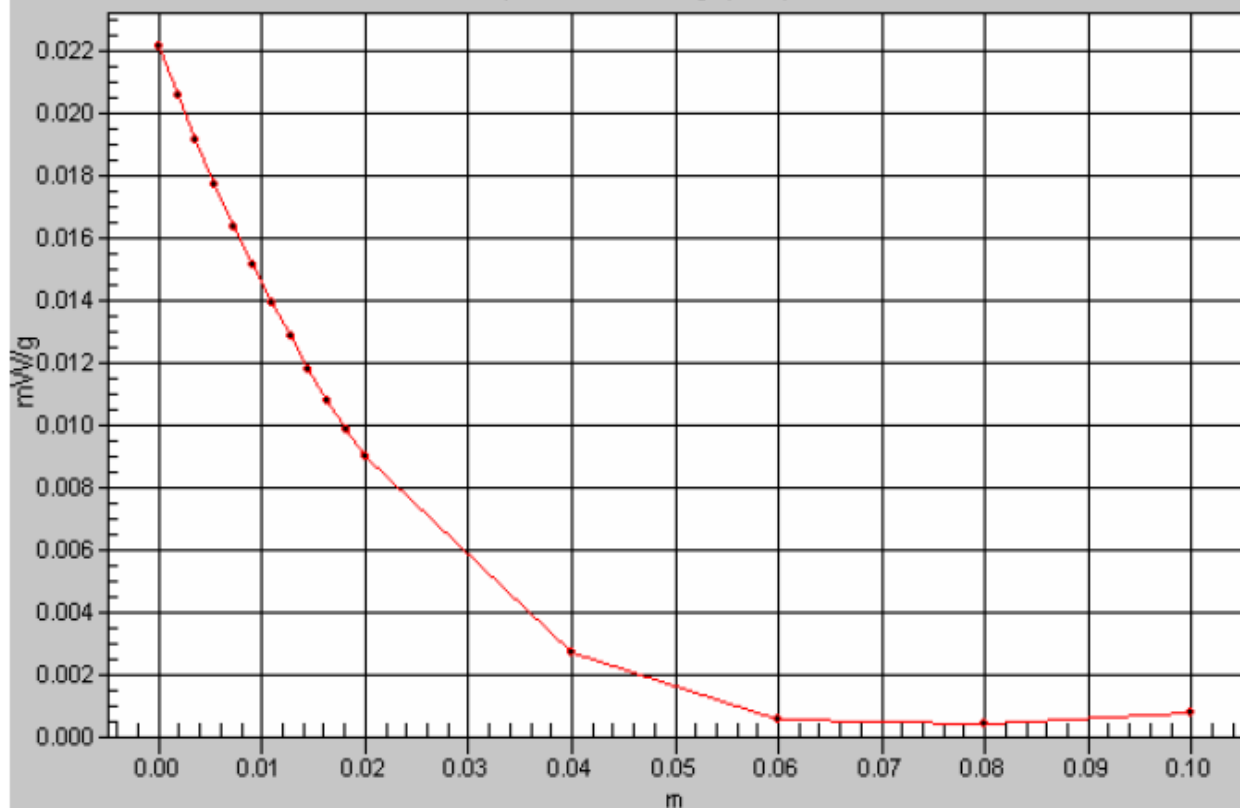
Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.27 mW/g

Maximum value of SAR (measured) = 1.39 mW/g

Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0





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Electromagnetic Interference Test Report

Date/Time: 11/25/04 18:03:03

Test Laboratory: ESTECH

LG-MX4170 - CH 25 BODY

DUT: LG-MX4170; **Type:** Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); **Serial:** NONE

Communication System: PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r =$

51.1; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(4.54, 4.54, 4.54); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM MIC 1800Mhz; Type: SAM MIC 1800MHz; Serial: TP-1263
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.1 mW/g

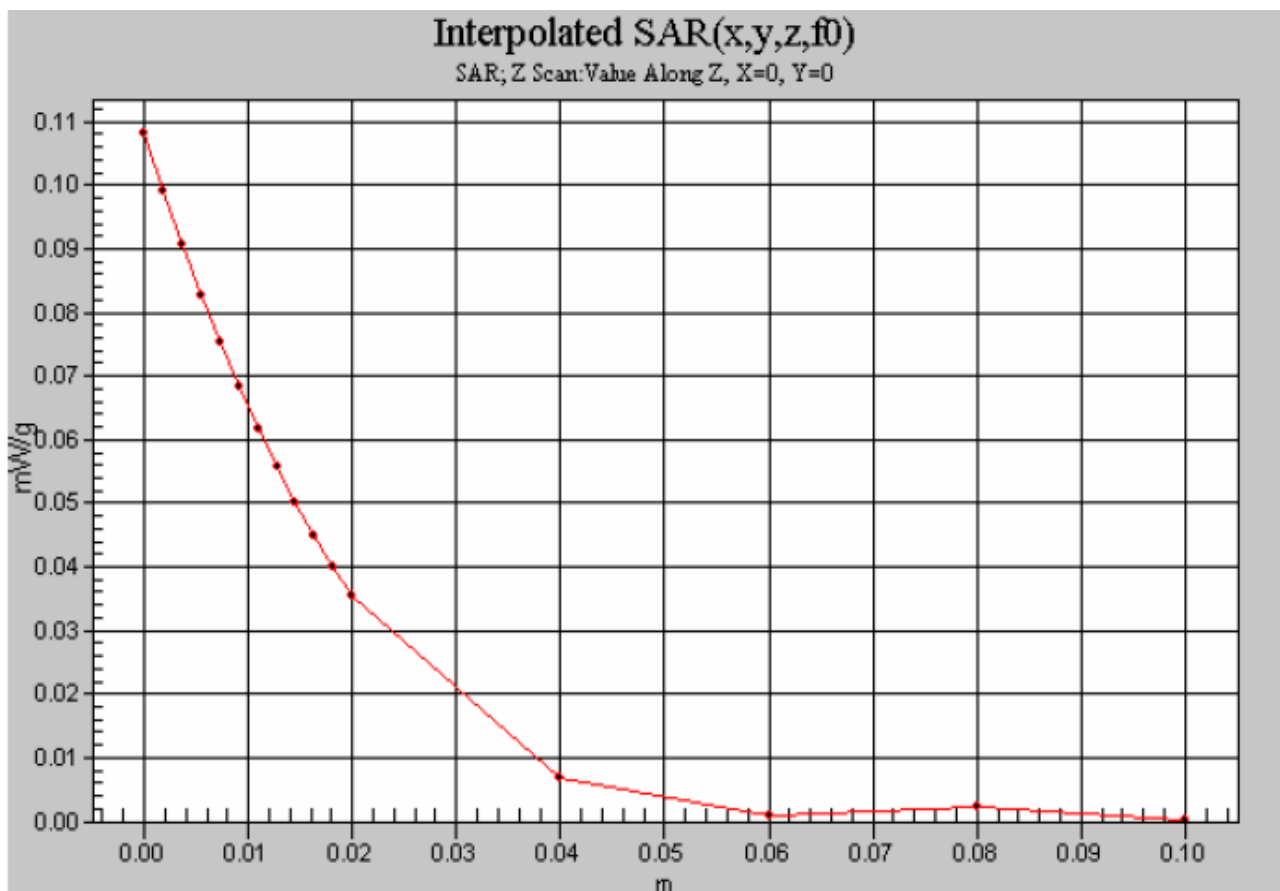
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.8 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.894 mW/g

Maximum value of SAR (measured) = 0.982 mW/g



8. SYSTEM VERIFICATION

Tissue Verification

Table 8.1 Simulated Tissue Verification [5]

MEASURED TISSUE PARAMETERS										
Liquid Temperature (°C)		21		Liquid Depth (mm)				150		
Date	2004-11-23	2004-11-24		2004-11-24		200411-25		200411-25		
Tissue	835MHz Brain	835MHz Brain		1900MHz Brain		835MHz Muscle		1880MHz Muscle		
	Target	Measured	Target	Measured	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: ϵ	41.5	42.5	41.5	42.5	40	38.8	55.2	55.02	53.3	50.9
Conductivity: σ	0.9	0.874	0.9	0.873	1.4	1.46	0.97	0.9628	1.52	1.554
Deviation (%)	ϵ : 2.4 σ : -2.8		ϵ : 2.4 σ : -3		ϵ : -3 σ : 4.3		ϵ : -0.3 σ : -0.7		ϵ : -4.5 σ : 2.2	

Test System Validation

Prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at 835MHz (Graphic Plots Attached)

Table 8.2 System Validation [5]

SYSTEM DIPOLE VALIDATION TARGET & MEASURED

Tissue	System Validation Kit:	Dipole forward Power (mW)	Targeted SAR1g (mW/g)	Measured SAR1g (mW/g)	Deviation (%)	Test Date
835MHz Brain	D835V2(S/N :475)	250 mW	2.42	2.52	4.1	2004-11-23
835MHz Brain	D835V2(S/N :475)	250 mW	2.42	2.39	1.2	2004-11-24
1900MHz Brain	D1900V2(S/N :5d032)	250 mW	10	10	0	2004-11-24

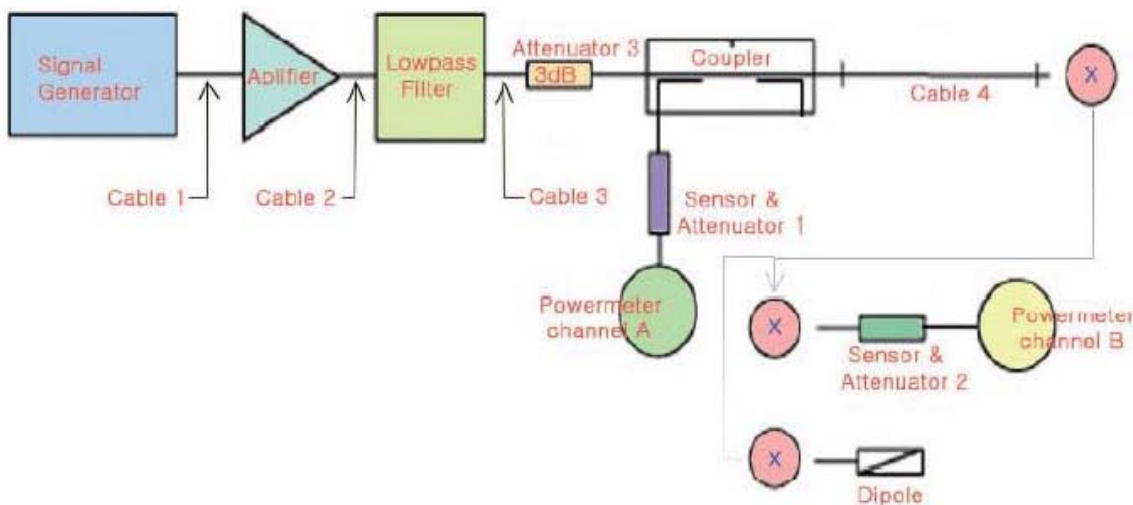


Figure 12.1 Dipole Validation Test Setup



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Electromagnetic Interference Test Report

Date/Time: 11/25/04 12:10:06

Test Laboratory: ESTECH

LG-MX4170 - CH 383 BODY SAR

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.967$ mho/m; $\epsilon_r = 55$;

$\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.801 mW/g

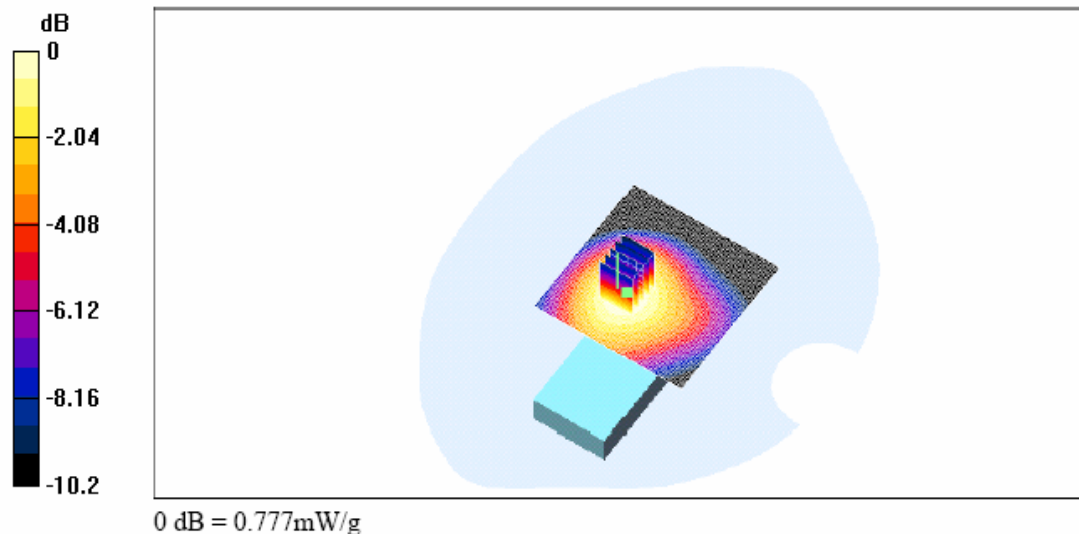
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.736 mW/g; SAR(10 g) = n.a.

Maximum value of SAR (measured) = 0.777 mW/g





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**Electromagnetic
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Date/Time: 11/23/04 21:09:05

Test Laboratory: ESTECH

LG-MX4170 - CH 383 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49 \text{ MHz}$; $\sigma = 0.874$

mho/m ; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.46, 6.46, 6.46); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

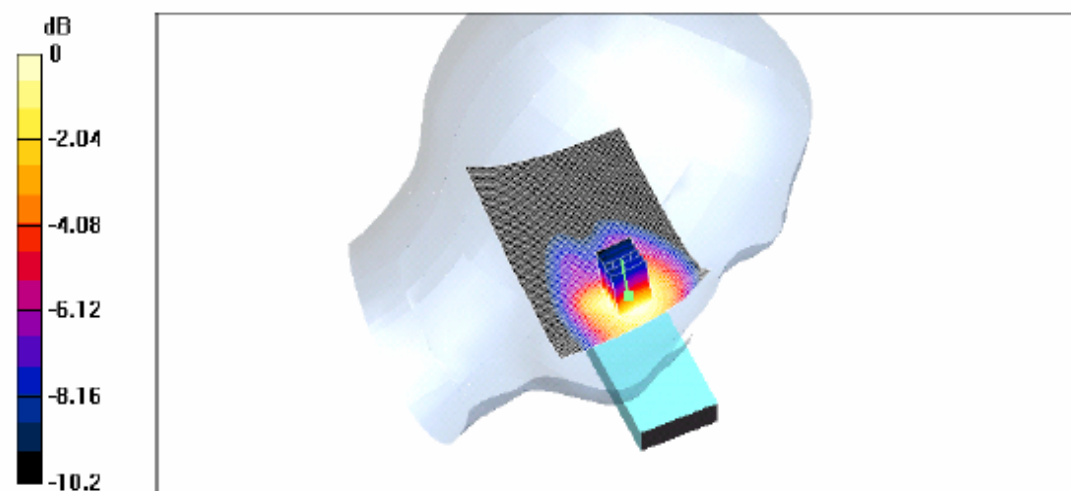
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 2.31 W/kg

SAR(1 g) = 1.24 mW/g

Maximum value of SAR (measured) = 1.29 mW/g



0 dB = 1.29mW/g



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Electromagnetic Interference Test Report

Date/Time: 11/25/04 10:57:08

Test Laboratory: ESTECH

LG-MX4170 - CH 25 BODY

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r =$

51.1 ; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(5.06, 5.06, 5.06); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM MIC 1800Mhz; Type: SAM MIC 1800MHz; Serial: TP-1263
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.13 mW/g

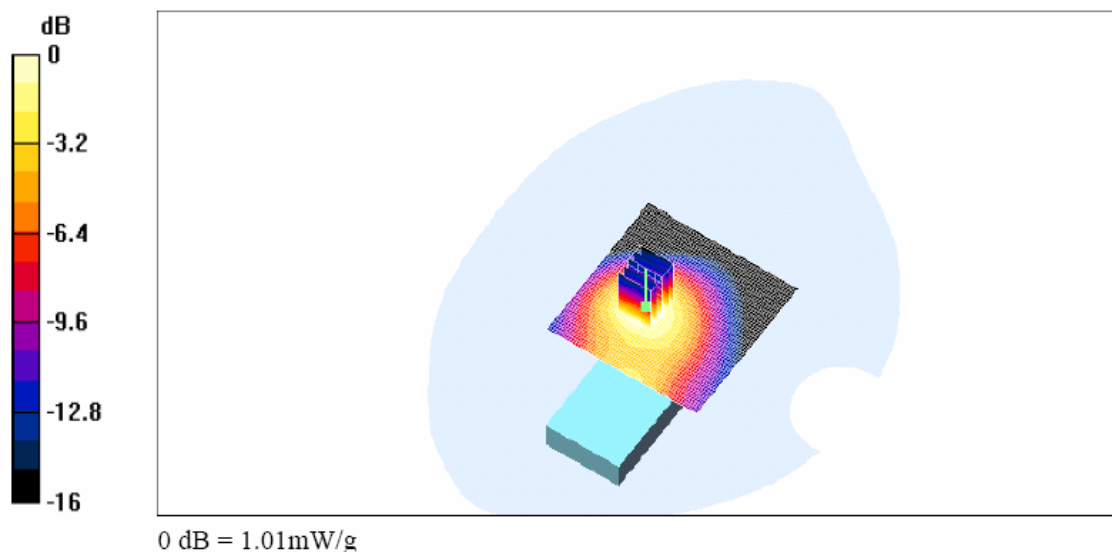
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.960 mW/g

Maximum value of SAR (measured) = 1.01 mW/g





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Electromagnetic Interference Test Report

Date/Time: 11/23/04 13:07:32

Test Laboratory: ESTECH

LG-MX4170 - CH 363 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: CDMA FCC; Frequency: 835.89 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 835.89 \text{ MHz}$; $\sigma = 0.873$
 mho/m ; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.46, 6.46, 6.46); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.721 mW/g

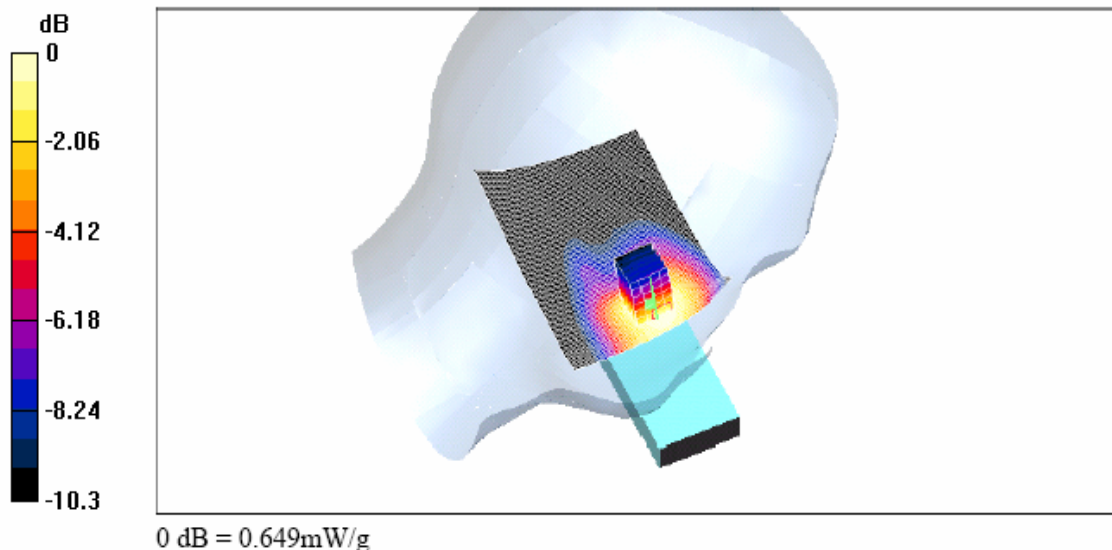
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.51 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.617 mW/g

Maximum value of SAR (measured) = 0.649 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/25/04 18:03:03

Test Laboratory: ESTECH

LG-MX4170 - CH 25 BODY

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r =$

51.1; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(5.06, 5.06, 5.06); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM MIC 1800Mhz; Type: SAM MIC 1800MHz; Serial: TP-1263
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.13 mW/g

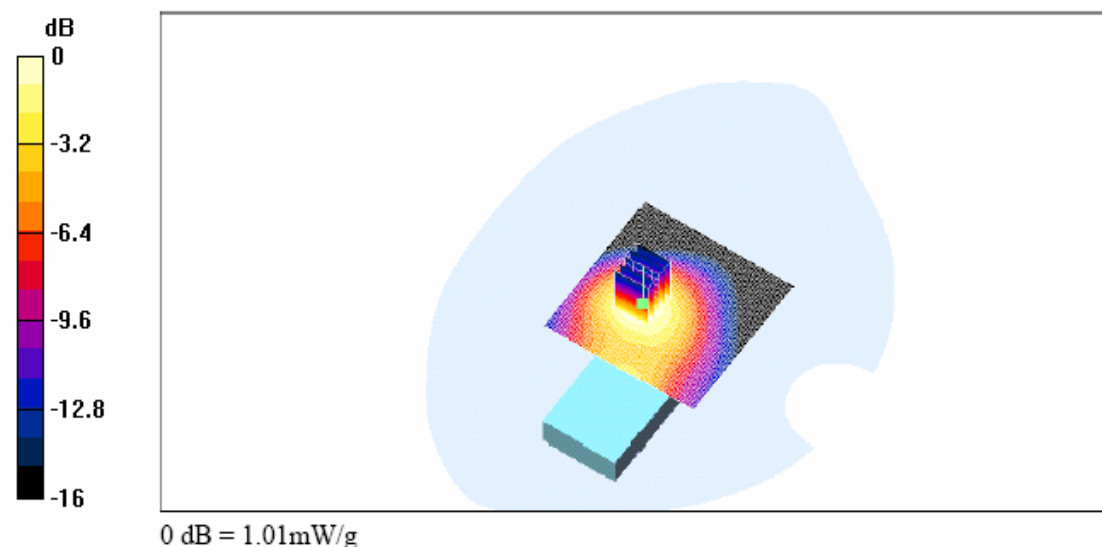
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.960 mW/g

Maximum value of SAR (measured) = 1.01 mW/g





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Electromagnetic Interference Test Report

Date/Time: 11/24/04 22:36:28

Test Laboratory: ESTECH

LG-MX4170 - CH 1175 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: HSL1950 Medium parameters used (interpolated): $f = 1908.75 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r =$

38.8 ; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(5.03, 5.03, 5.03); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM MIC 1800Mhz; Type: SAM MIC 1800MHZ; Serial: TP-1263
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.58 mW/g

Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.31 mW/g

Maximum value of SAR (measured) = 1.44 mW/g

