

APPENDIX A – SAR TEST PLOTS (3 of 3)

Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM850 / Channel : 128(BODY)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

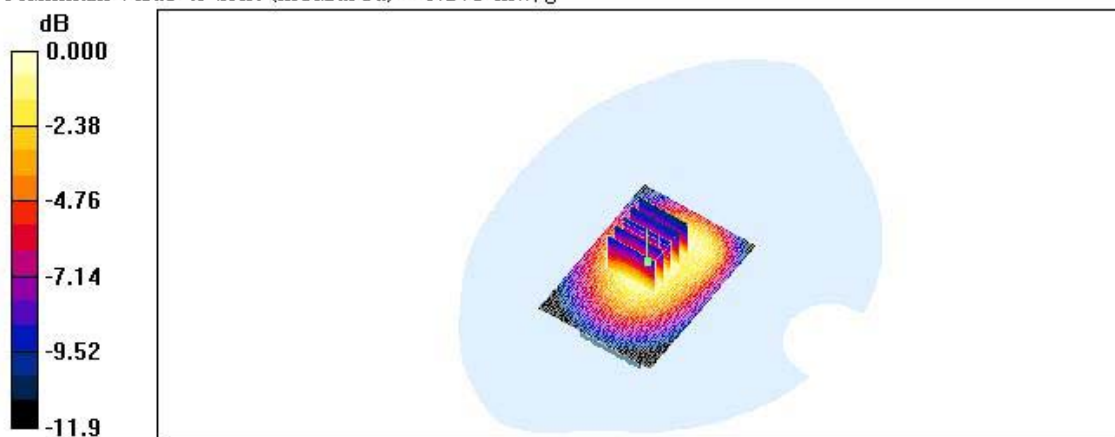
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 825$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 128/Area Scan (51x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (interpolated) = 0.176 mW/g

GSM850 Body 128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 11.6 V/m; Power Drift = -0.032 dB
Peak SAR (extrapolated) = 0.262 W/kg
SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.172 mW/g



0 dB = 0.172mW/g

Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM850 / Channel : 128 (GPRS)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

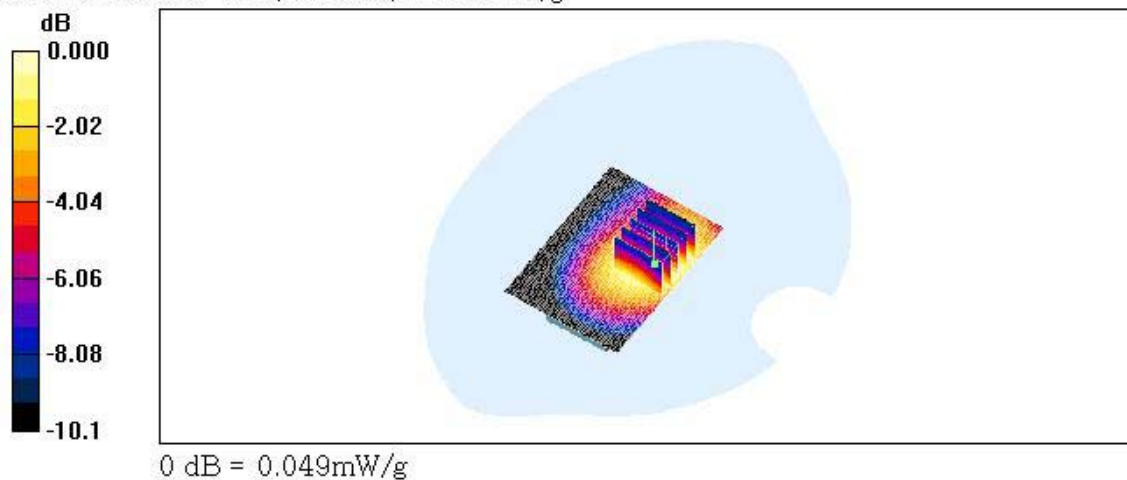
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 825$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 128/Area Scan (51x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (interpolated) = 0.050 mW/g

GSM850 Body 128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 5.72 V/m; Power Drift = 0.094 dB
Peak SAR (extrapolated) = 0.064 W/kg
SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.032 mW/g
Maximum value of SAR (measured) = 0.049 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM850 / Channel : 190(BODY)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 190/Area Scan (51x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.146 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

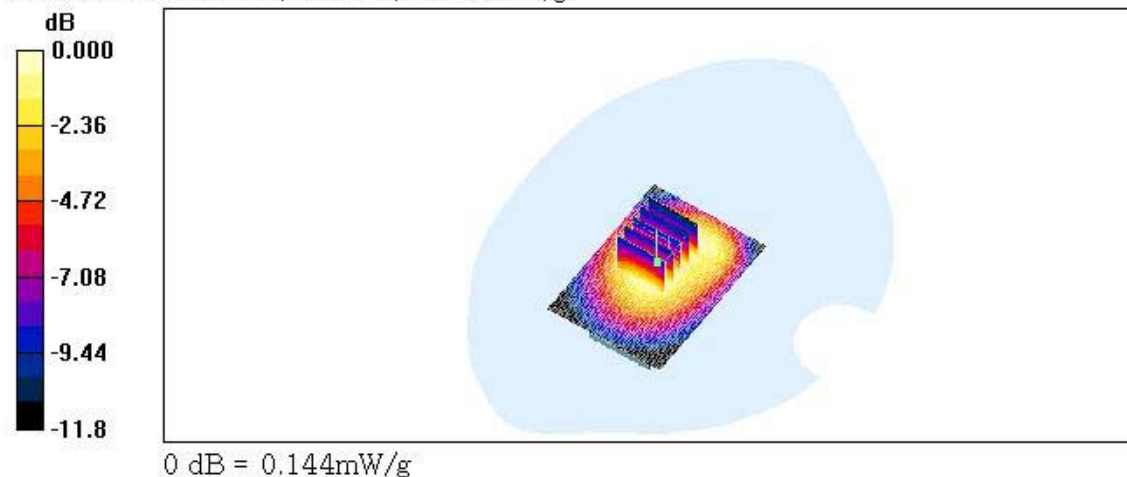
Reference Value = 10.4 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.087 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.144 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM850 / Channel : 190(front)
Liquid Temperature : 21.4 °C
Date Tested : March 08, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.987$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 190/Area Scan (51x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.058 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

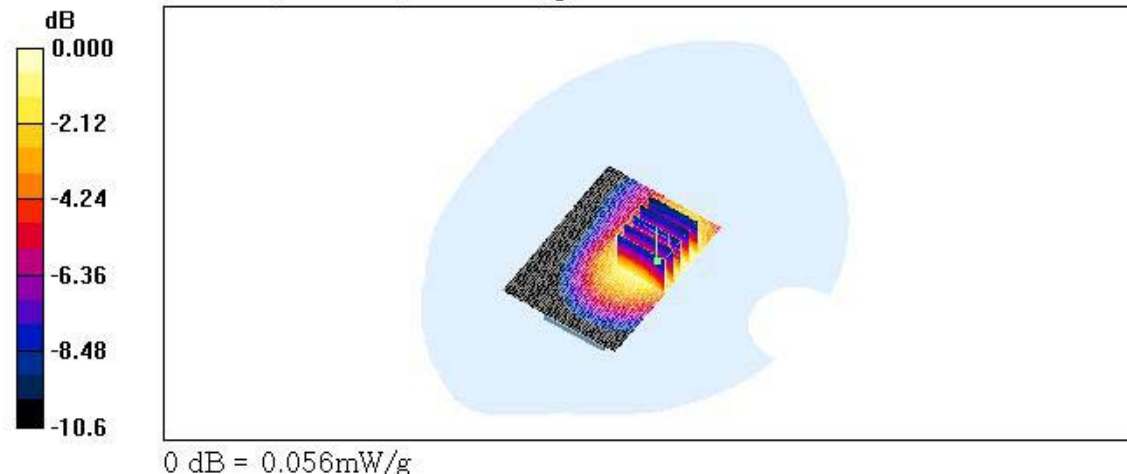
Reference Value = 5.92 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.077 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.035 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.056 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM850 / Channel : 251(BODY)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

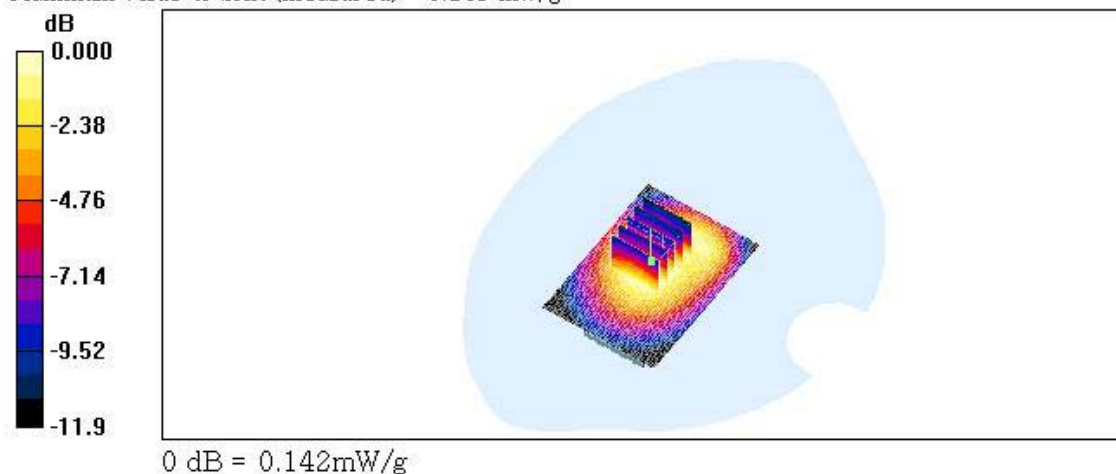
Communication System: GSM 850; Frequency: 849.8 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 850$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 251/Area Scan (51x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (interpolated) = 0.147 mW/g

GSM850 Body 251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 9.99 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.086 mW/g
Maximum value of SAR (measured) = 0.142 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM1900 / Channel : 512(BODY)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 512/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.244 mW/g

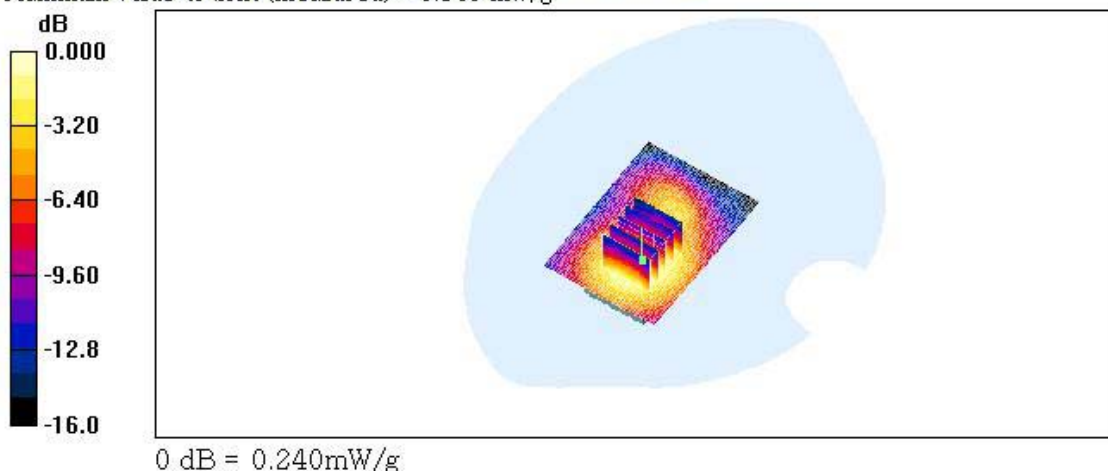
GSM1900 Body 512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.23 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.136 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.240 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM1900 / Channel : 661(BODY)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

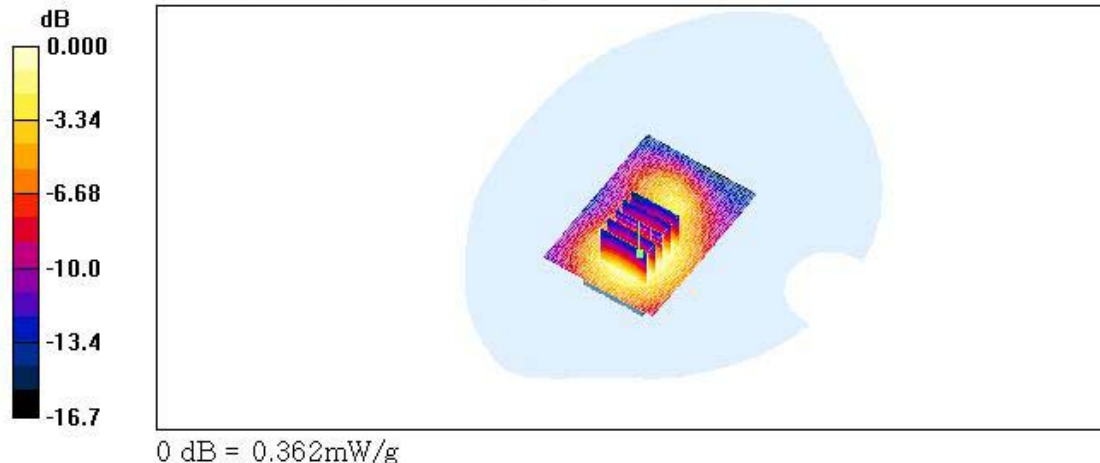
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.368 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.9 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.495 W/kg
SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 0.362 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM1900 / Channel : 661 (GPRS)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

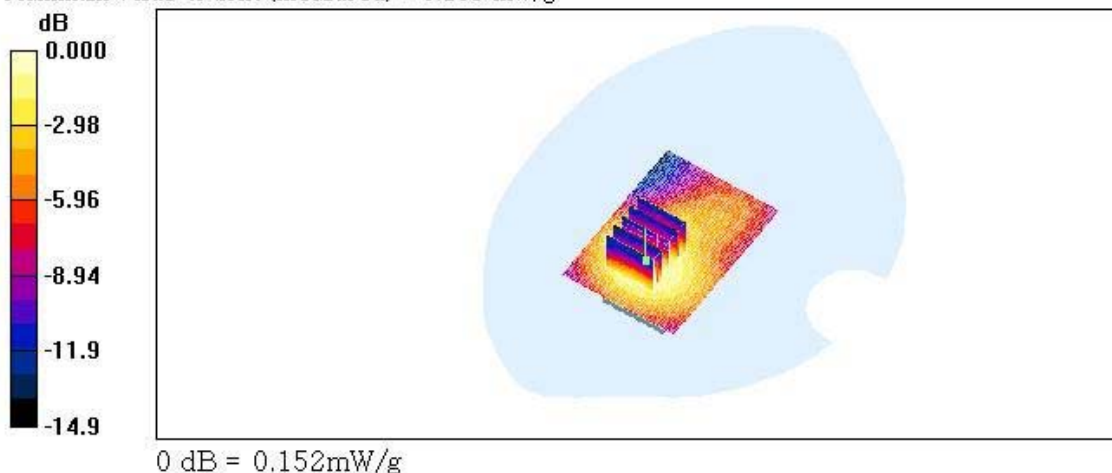
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x71x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm
Maximum value of SAR (interpolated) = 0.153 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm
Reference Value = 6.66 V/m; Power Drift = -0.043 dB
Peak SAR (extrapolated) = 0.214 W/kg
SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.152 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM1900 / Channel : 661(front)
Liquid Temperature : 21.4 °C
Date Tested : March 08, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x71x1): Measurement grid: $\Delta x = 15\text{mm}$, $\Delta y = 15\text{mm}$

Maximum value of SAR (interpolated) = 0.173 mW/g

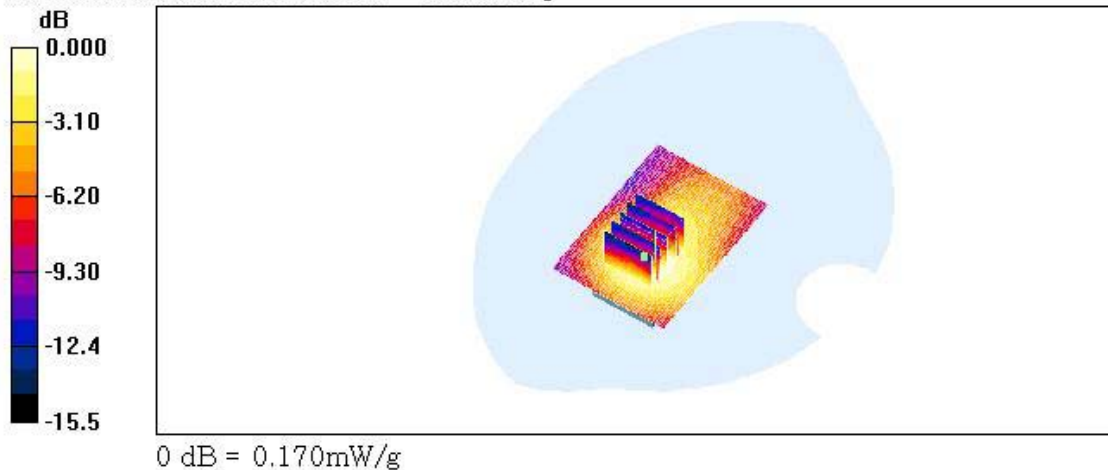
GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8\text{mm}$, $\Delta y = 8\text{mm}$, $\Delta z = 5\text{mm}$

Reference Value = 8.14 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.170 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.
Mode : GSM1900 / Channel : 810(BODY)
Liquid Temperature : 21.4 °C
Date Tested : February 22, 2006

DUT: PG-3310 Body; Type: Folder; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 810/Area Scan (51x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.370 mW/g

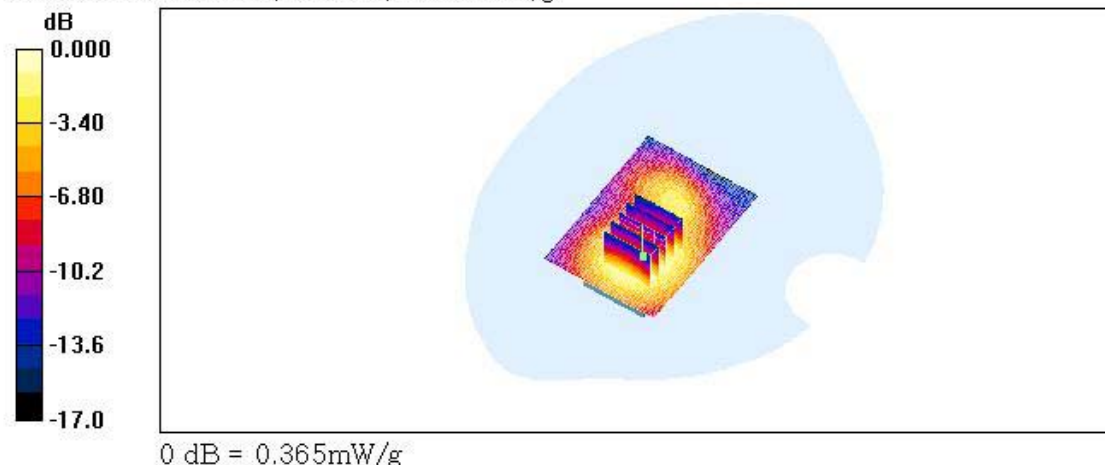
GSM1900 Body 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.0 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.365 mW/g



DUT: PG-3310; Type: Folder; Serial: #1

Program Name: PG-3310

Communication System: GSM 850; Frequency: 849.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 850$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.18, 6.18, 6.18); Calibrated: 2005-08-30

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2005-05-24

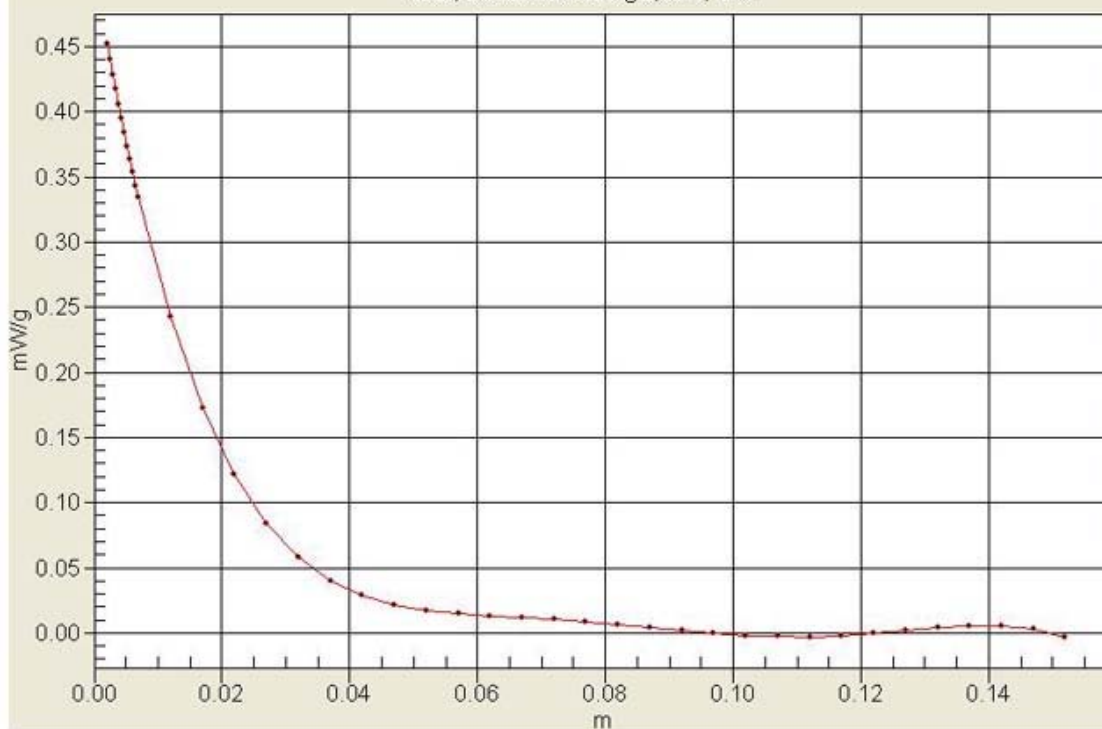
- Phantom: SAM 835/900 MHz; Type: SAM

Right touch 251/Z Scan (1x1x41): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm
Maximum value of SAR (interpolated) = 0.452 mW/g

0.080, 0.207

Interpolated SAR(x,y,z,f0)

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



DUT: PG-3310; Type: Folder; Serial: #1**Program Name: PG-3310**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2005-05-24

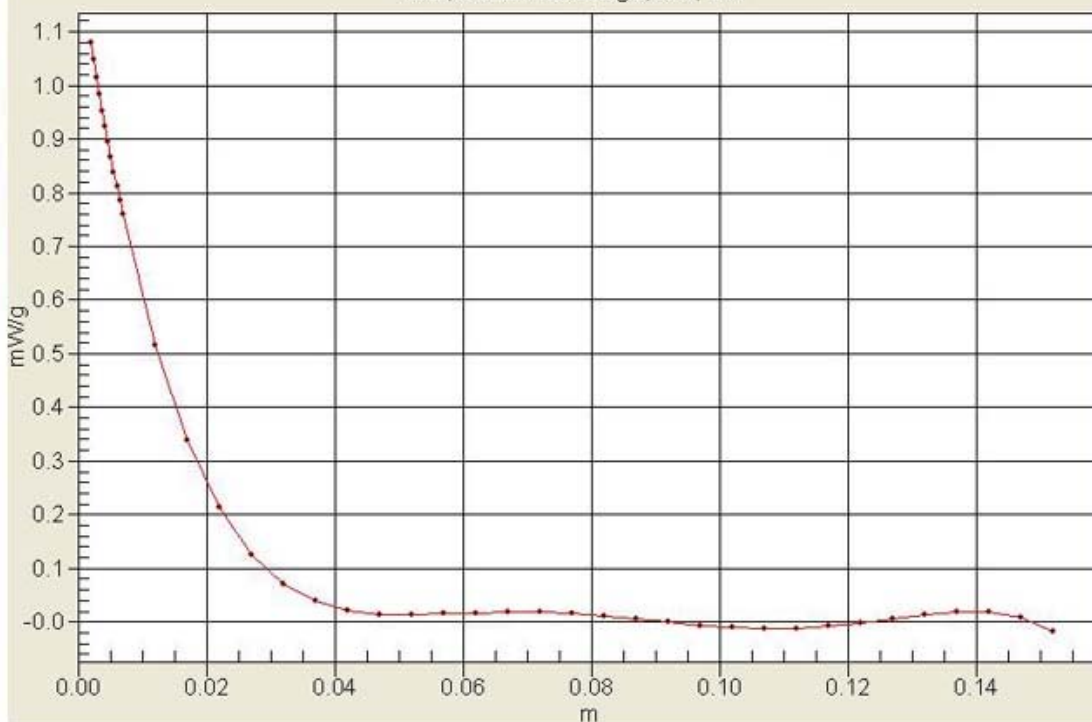
- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 661/Z Scan (1x1x41): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm
Maximum value of SAR (interpolated) = 1.08 mW/g

0.086, 0.493

Interpolated SAR(x,y,z,f0)

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



DUT: PG-3310 Body; Type: Folder; Serial: #1
Program Name: PG-3310

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

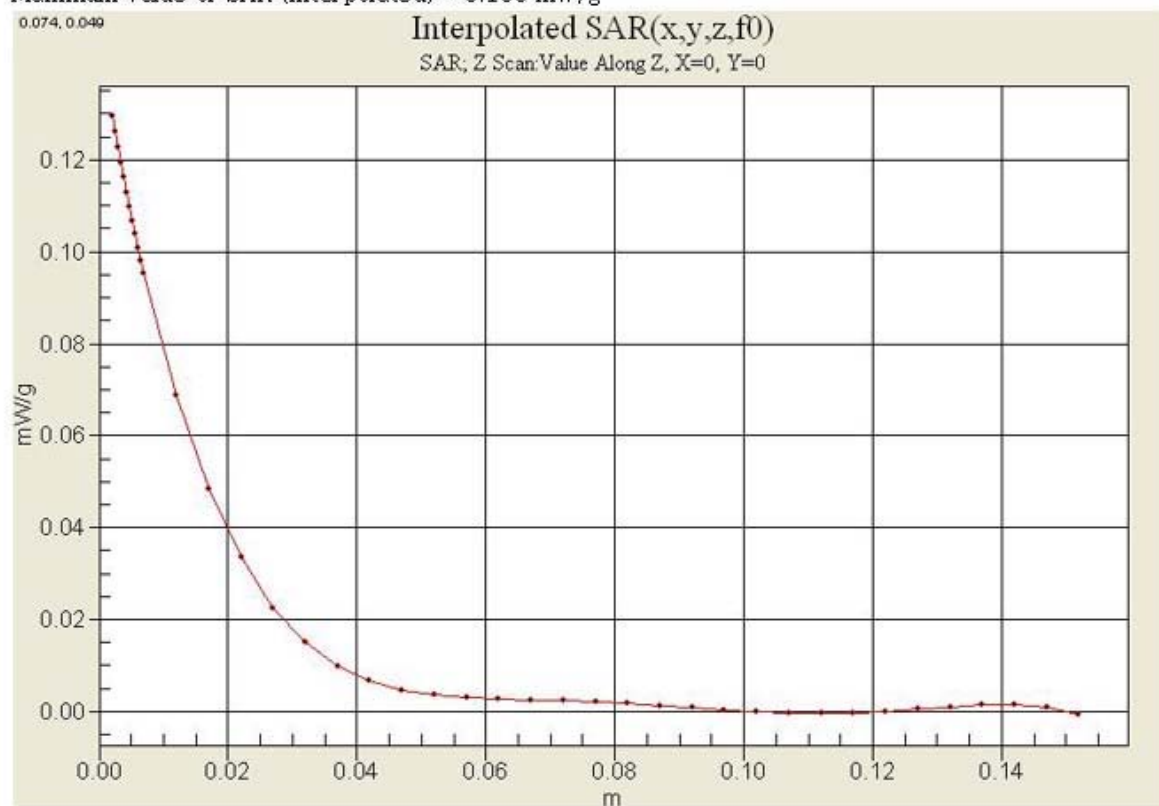
Medium parameters used: $f = 825$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 128/Z Scan (1x1x41): Measurement grid: $\Delta x = 20$ mm, $\Delta y = 20$ mm, $\Delta z = 5$ mm
Maximum value of SAR (interpolated) = 0.130 mW/g



DUT: PG-3310 Body; Type: Folder; Serial: #1
Program Name: PG-3310

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2005-05-24

- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Z Scan (1x1x41): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm
Maximum value of SAR (interpolated) = 0.183 mW/g

0.038, 0.105

Interpolated SAR(x,y,z,f0)

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

