FCC ID: UDTSP-210 **DATE: July 19, 2006**

ATTACHMENT O - SAR TEST PLOTS -2/2-

Test Laboratory: HCT

Company: Smart Networks Limited Mode: GSM850(BODY) / Channel: 190

Liquid Temperature : 21.8 °C / Ambient Temperature : 22.1 °C

Date Tested: April 28, 2006

DUT: SP-210 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; $\sigma = 0.994 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Measurement SW: DASY4, V4.6 Build 23

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: 2006-03-17
- Phantom: SAM 835/900 MHz; Type: SAM

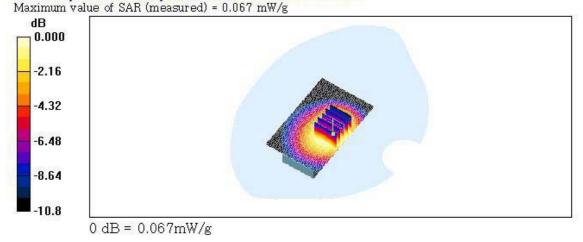
GSM850 Body 190/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.071 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.99 V/m; Power Drift = -0.060 dB Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.043 mW/g

Info: Interpolated medium parameters used for SAR evaluation.



Test Laboratory: HCT

Company: Smart Networks Limited

Mode: GSM850 (Body) / Channel: 190 (GPRS)

Liquid Temperature : 21.7 °C Date Tested : June 06, 2006

DUT: SP-210 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; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 54.8$; $\rho = 1000 \text{ kg/m}^3$

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

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: 2006-03-17
- Phantom: SAM 835/900 MHz; Type: SAM

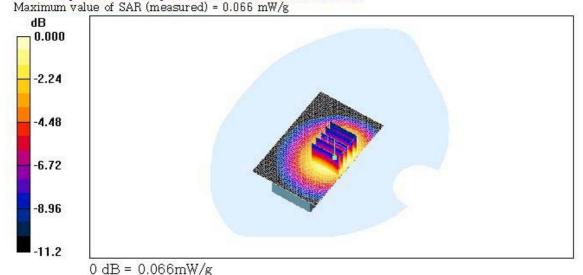
GSM850 Body 190/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.068 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.49 V/m: Power Drift = 0.100 dB Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.041 mW/g

Info: Interpolated medium parameters used for SAR evaluation.



Test Laboratory: HCT

Company: Smart Networks Limited Mode: GSM1900(BODY) / Channel: 661

Liquid Temperature: 21.8 °C / Ambient Temperature: 22.1 °C

Date Tested: April 28, 2006

DUT: SP-210 Body; Type: Folder; Serial: #1

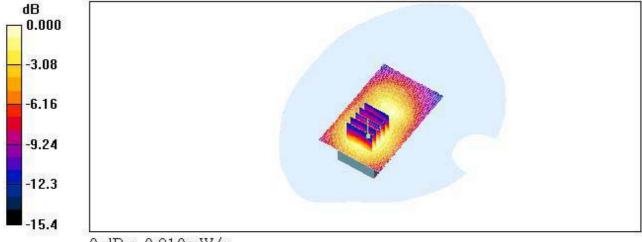
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_{\nu} = 52.6$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Measurement SW: DASY4, V4.6 Build 23

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: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of ŠAR (interpolated) = 0.211 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.9 V/m; Power Drift = -0.155 dB
Peak SAR (extrapolated) = 0.276 W/kg
SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.122 mW/g
Maximum value of SAR (measured) = 0.210 mW/g



0 dB = 0.210 mW/g

Test Laboratory: HCT

Company: Smart Networks Limited

Mode: GSM1900 (Body) / Channel: 661 (GPRS)

Liquid Temperature : 21.7 °C Date Tested : June 06, 2006

DUT: SP-210 Body; Type: Folder; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_{\nu} = 52.8$; $\rho = 1000 \text{ kg/m}^3$

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

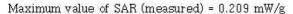
DASY4 Configuration:

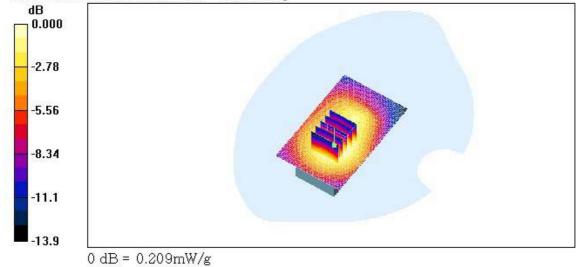
- Probe: ET3DV6 SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.209 mW/g

 $\begin{array}{l} GSM1900 \ Body \ 661/Zoom \ Scan \ (5x5x7)/Cube \ 0: \ \mbox{Measurement grid: dx=8mm, dy=8mm, dz=5mm} \\ Reference \ \mbox{Value = } 10.7 \ \mbox{V/m}: \ \mbox{Power Drift = } -0.028 \ \mbox{dB} \\ Peak \ SAR \ (extrapolated) = 0.274 \ \mbox{W/kg} \\ SAR(1 \ g) = 0.192 \ \mbox{mW/g}: SAR(10 \ g) = 0.121 \ \mbox{mW/g} \end{array}$







Test Laboratory: HCT

Company: Smart Networks Limited Mode: GSM850 / Channel: 251 Liquid Temperature: 21.8 [℃] Date Tested: April 28, 2006

DUT: SP-210; Type: Folder; Serial: #1

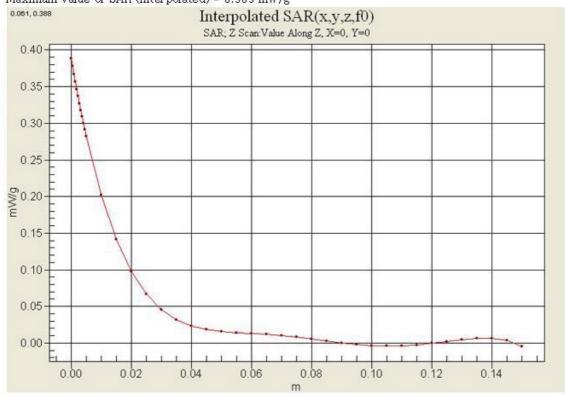
Communication System: GSM 850; Frequency: 849.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f=850 MHz; $\sigma=0.883$ mho/m; $\epsilon_r=41.2$; $\rho=1000$ kg/m³

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

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: 2006-03-17
- Phantom: SAM 835/900 MHz; Type: SAM

Left touch 251/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of SAR (interpolated) = 0.389 mW/g



DATE: July 19, 2006

Test Laboratory: HCT

Company: Smart Networks Limited Mode: GSM850(BODY) / Channel: 190

Liquid Temperature : 21.8 °C Date Tested : April 28, 2006

DUT: SP-210 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; $\sigma = 0.994 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30

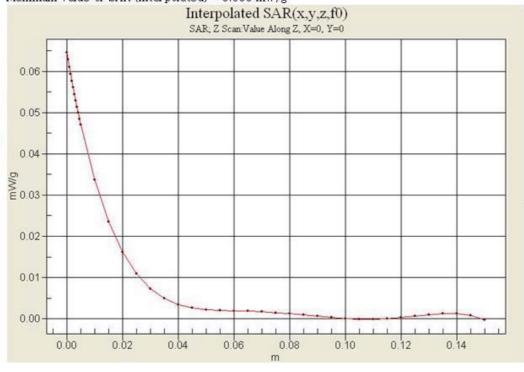
- Sensor-Surface: 0mm (Fix Surface)

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

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

GSM850 Body 190/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.065 mW/g



Test Laboratory: HCT

Company: Smart Networks Limited Mode: GSM1900 / Channel: 512 Liquid Temperature: 21.8 °C Date Tested: April 28, 2006

DUT: SP-210; Type: Folder; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

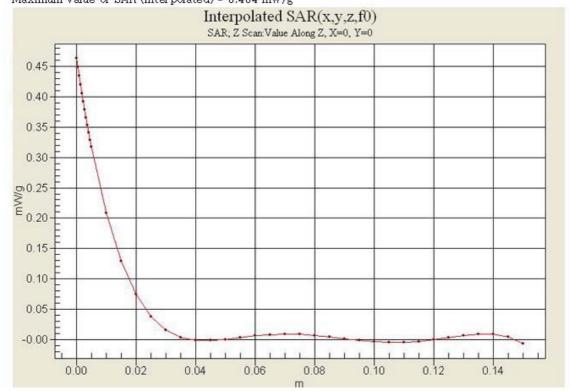
Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23

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: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Left touch 512/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.464 mW/g



Report No.: HCT-SAR06-0708 **DATE: July 19, 2006**

Test Laboratory: HCT

Company: Smart Networks Limited Mode: GSM1900(BODY) / Channel: 661

Liquid Temperature : 21.8 °C Date Tested: April 28, 2006

DUT: SP-210 Body; Type: Folder; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

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

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: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

$\begin{array}{l} \textbf{GSM1900 Body 661/Z Scan (1x1x41):} \ \textbf{Measurement grid:} \ dx=20mm, \ dy=20mm, \ dz=5mm \\ \textbf{Maximum value of SAR (interpolated)} = 0.173 \ mW/g \\ \end{array}$

