

## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.5 MEASUREMENT RESULTS (CELLULAR CDMA Right Head SAR – Touch)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>		Device Test Position	Antenna Position	SAR (W/kg)	
MHz	Ch.		(dBm)	Battery				
824.70	1013	CDMA	26.0	26.0	Standard	Cheek / Touch	Fixed	0.873
836.49	0363	CDMA	26.0	26.0	Standard	Cheek / Touch	Fixed	0.912
848.31	0777	CDMA	26.0	26.0	Standard	Cheek / Touch	Fixed	1.010
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  - All modes of operation were investigated, and worst-case results are reported.
  - Battery is fully charged for all readings.
- <sup>†</sup>Power Measured                       Conducted                       ERP                       EIRP
4. SAR Measurement System                       DASY3                       IDX
- Phantom Configuration                       Left Head                       Flat Phantom                       Right Head
5. SAR Configuration                       Head                       Body                       Hand
6. Test Signal Call Mode                       Manu. Test Codes                       Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
  - Liquid tissue depth is 15.1 cm. ± 0.1
  - Justification for reduced test configurations: Per FCC P1528 Power Rule (Jan. 31, 2002), SAR measurements were taken on only one channel because the peak SAR value is less than 85% of the maximum SAR value in AMPS mode.

  
**Alfred Cirwithian**  
Vice President Engineering



Figure 14.5 Right Head SAR Test Setup  
-- Cheek / Touch Position --

PCTEST™ SAR REPORT			FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR-220325126.A3L	Test Dates: March 25-28, 2002	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHI330	Page 22 of 35	

## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.6 MEASUREMENT RESULTS (CELLULAR CDMA Right Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>		Device Test Position	Antenna Position	SAR (W/kg)	
MHz	Ch.		(dBm)	Battery				
824.70	1013	CDMA	26.0	26.0	Standard	Ear / 15° Tilt	Fixed	0.821
836.49	0363	CDMA	26.0	26.0	Standard	Ear / 15° Tilt	Fixed	0.792
848.31	0777	CDMA	26.0	26.0	Standard	Ear / 15° Tilt	Fixed	0.866
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b>						<b>Brain</b>		
<b>Spatial Peak</b>						<b>1.6 W/kg (mW/g)</b>		
<b>Uncontrolled Exposure/General Population</b>						averaged over 1 gram		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  - All modes of operation were investigated, and worst-case results are reported.
  - Battery is fully charged for all readings.
- <sup>†</sup>Power Measured
- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Conducted        | <input type="checkbox"/> ERP                    | <input type="checkbox"/> EIRP                  |
| <input checked="" type="checkbox"/> DASY3            | <input type="checkbox"/> IDX                    |  |
| <input type="checkbox"/> Left Head                   | <input type="checkbox"/> Flat Phantom           | <input checked="" type="checkbox"/> Right Head |
| <input checked="" type="checkbox"/> Head             | <input type="checkbox"/> Body                   | <input type="checkbox"/> Hand                  |
| <input checked="" type="checkbox"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator |  |
- Tissue parameters and temperatures are listed on the SAR plots.
  - Liquid tissue depth is 15.1 cm. ± 0.1
  - Justification for reduced test configurations: Per FCC P1528 Power Rule (Jan. 31, 2002), SAR measurements were taken on only one channel because the peak SAR value is less than 85% of the maximum SAR value in AMPS mode.

  
**Alfred Cirwithian**  
Vice President Engineering



Figure 14.6 Right Head SAR Test Setup  
-- Ear / 15° Tilt Position --

PCTEST™ SAR REPORT	 FCC CERTIFICATION			Reviewed by: Quality Manager
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## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.7 MEASUREMENT RESULTS (CELLULAR CDMA Left Head SAR – Touch)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>		Device Test Position	Antenna Position	SAR (W/kg)	
MHz	Ch.		(dBm)	Battery				
824.70	1013	CDMA	26.0	26.0	Standard	Cheek / Touch	Fixed	0.922
836.49	0363	CDMA	26.0	26.0	Standard	Cheek / Touch	Fixed	0.891
848.31	0777	CDMA	26.0	26.0	Standard	Cheek / Touch	Fixed	1.090
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  - All modes of operation were investigated, and worst-case results are reported.
  - Battery is fully charged for all readings.
- <sup>†</sup>Power Measured                       Conducted                       ERP                       EIRP  
 SAR Measurement System            DASY3                       IDX  
 Phantom Configuration               Left Head                       Flat Phantom               Right Head  
 SAR Configuration                     Head                       Body                       Hand  
 Test Signal Call Mode                 Manu. Test Codes       Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
  - Liquid tissue depth is 15.1 cm. ± 0.1
  - Justification for reduced test configurations: Per FCC P1528 Power Rule (Jan. 31, 2002), SAR measurements were taken on only one channel because the peak SAR value is less than 85% of the maximum SAR value in AMPS mode.

  
**Alfred Cirwithian**  
 Vice President Engineering



Figure 14.7 Left Head SAR Test Setup  
-- Cheek / Touch Position --

PCTEST™ SAR REPORT	 FCC CERTIFICATION 		Reviewed by: Quality Manager
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## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.8 MEASUREMENT RESULTS (CELLULAR CDMA Left Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>		Device Test Position	Antenna Position	SAR (W/kg)	
MHz	Ch.		(dBm)	Battery				
824.70	1013	CDMA	26.0	26.0	Standard	Ear / 15° Tilt	Fixed	0.983
836.49	0363	CDMA	26.0	26.0	Standard	Ear / 15° Tilt	Fixed	0.852
848.31	0777	CDMA	26.0	26.0	Standard	Ear / 15° Tilt	Fixed	1.070
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  - All modes of operation were investigated, and worst-case results are reported.
  - Battery is fully charged for all readings.
- <sup>†</sup>Power Measured                       Conducted                       ERP                       EIRP  
 SAR Measurement System            DASY3                       IDX  
 Phantom Configuration               Left Head                       Flat Phantom               Right Head  
 SAR Configuration                     Head                       Body                       Hand  
 Test Signal Call Mode                 Manu. Test Codes       Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
  - Liquid tissue depth is 15.1 cm. ± 0.1
  - Justification for reduced test configurations: Per FCC P1528 Power Rule (Jan. 31, 2002), SAR measurements were taken on only one channel because the peak SAR value is less than 85% of the maximum SAR value in AMPS mode.



**Alfred Cirwithian**  
Vice President Engineering



Figure 14.8 Left Head SAR Test Setup  
-- Ear / 15° Tilt Position --

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## SAMSUNG FCC ID: A3LSPHI330 -- Cellular CDMA Head SAR

SAM Phantom; Left Hand Section; Probe:ET3DV6 - SN1560; ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain:  $\sigma = 0.87\text{mho/m}$   $\epsilon_r = 43.4$   $\rho = 1.00\text{ g/cm}^3$ ; Antenna Position -- In; Crest Factor 1.0

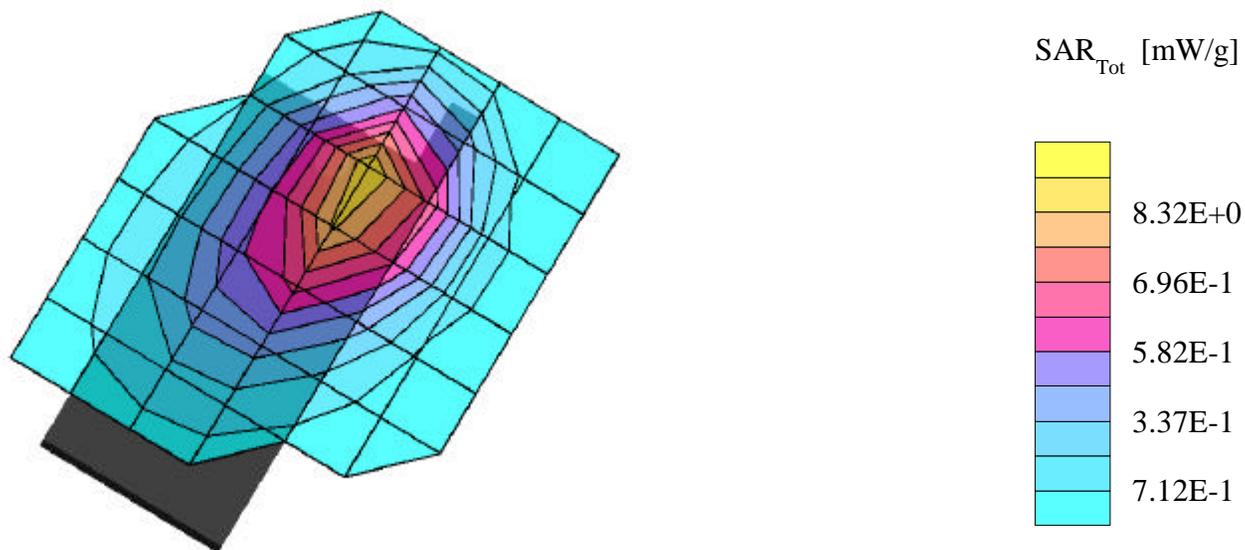
**SAR (1g): 1.07 mW/g, SAR (10g): 0.782 mW/g**

SAMSUNG TriMode phone Model: SPH-I330

Cellular CDMA Mode, Ch.0777 [848.31MHz]; Standard Battery; Ambient Temp.= 22.4°C / Meas. Tissue Temp.= 22.3°C

Conducted Power = 26.0dBm; Left Head SAR, Ear/15 degree Tilt position

Test Date -- 03/26/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



## SAMSUNG FCC ID: A3LSPHI330 -- Cellular CDMA Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560; ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain:  $\sigma = 0.87$  mho/m  $\epsilon_r = 43.4$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

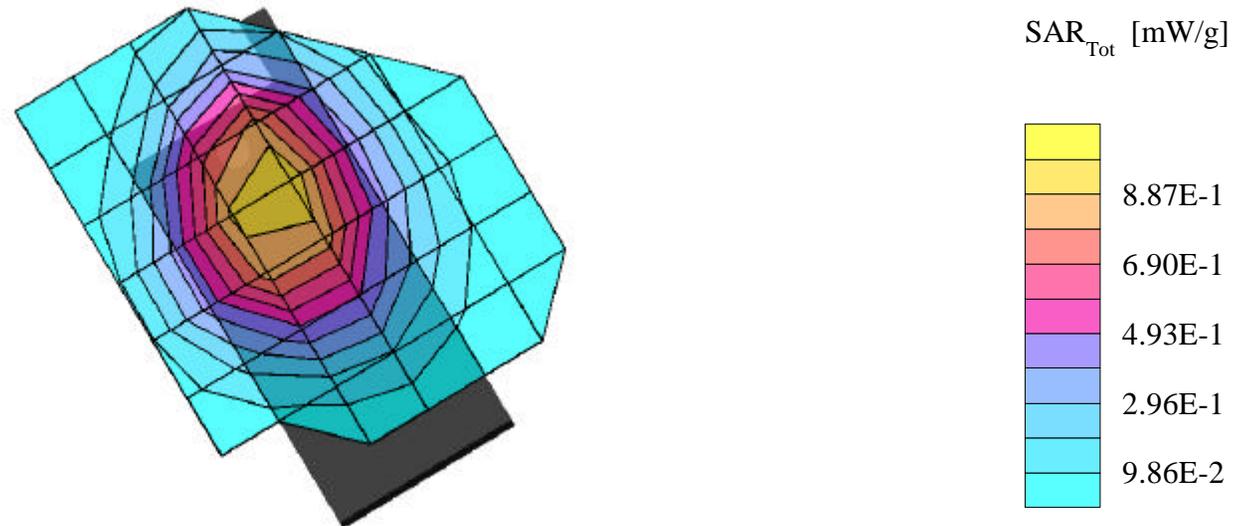
**SAR (1g): 1.01 mW/g, SAR (10g): 0.738 mW/g**

SAMSUNG TriMode phone Model: SPH-I330

Cellular CDMA Mode, Ch.0777 [848.31MHz]; Standard Battery; Ambient Temp.= 22.4°C / Meas. Tissue Temp.= 22.3°C

Conducted Power = 26.0dBm; Right Head SAR, Cheek/Touch position

Test Date -- 03/26/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



## SAMSUNG FCC ID: A3LSPHI330 -- Cellular CDMA Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560; ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain:  $\sigma = 0.87$  mho/m  $\epsilon_r = 43.4$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

**SAR (1g): 0.866 mW/g, SAR (10g): 0.591 mW/g**

SAMSUNG TriMode Phone Model: SPH-I330

Cellular CDMA Mode, Ch.0777 [848.31MHz]; Standard Battery; Ambient Temp. = 22.4°C / Meas. Tissue Temp. = 22.3°C

Conducted Power = 26.0dBm; Right Head SAR, Ear/15 degree Tilt position

Test Date -- 03/26/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]

