PCTEST ENGINEERING LABORATORY, INC. 6660 - B Dobbin Road • Columbia, MD 21045 • USA

Telephone 410.290.6652 / Fax 410.290.6654

http://www.pctestlab.com (email: randy@pctestlab.com)

CERTIFICATE OF COMPLIANCE (SAR EVALUATION)



APPLICANT NAME & ADDRESS:

SAMSUNG ELECTRONICS CO., LTD. 416 Maetan-3 Dong, Paldal-Ku

Suwon City Kyungki-Do 441-742, KOREA Attn: Wallace Oh, Engineering Manager

Samsung Electronics America (QA Lab)

DATE & LOCATION OF TESTING:

Dates of Tests: May 8-10, 2002 Test Report S/N: SAR.220507236.A3L

Test Site: PCTEST Lab, Columbia MD

FCC ID: A3LSCHA591

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

Single-Mode Cellular Phone (CDMA) **EUT Type:** Tx Frequency: 824.70 - 848.31 MHz (CDMA) Rx Frequency: 869.70 - 893.31 MHz (CDMA)

Max. RF Output Power: 0.250 W ERP CDMA (23.973 dBm) / 24.5 dBm Conducted

Max. SAR Measurement: 1.04W/kg CDMA Head SAR;

0.53W/kg CDMA Body SAR

Trade Name/Model(s): SCH-A591

FCC Classification: Licensed Non-Broadcast Transmitter Held To Ear (TNE) FCC Rule Part(s): §2.1093; FCC/OET Bulletin 65 Supplement C [July 2001]

Application Type: Certification Identical prototype **Test Device Serial No.:**

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-200X (Draft 6.4, July 2001).

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.



PCTEST™ SAR TEST REPORT	PCTEST Transmitted to the state of the state	FCC CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
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12. SYSTEM VERIFICATION

Tissue Verification

Table 12.1 Simulated Tissue Verification

	MEASURED TISSUE PARAMETERS									
Date(s)	05/06/02	835M	Hz Brain	835MF	Hz Muscle	1900N	ЛНz Brain	1900MI	Hz Muscle	
Liquid 22.7 Temperature (°C)		Target	Measured	Target	Measured	Target	Measured	Target	Measured	
Dielectric Constant: ε		41.50	40.60	55.20	57.26	40.00	N/A	53.30	N/A	
Conductivity: σ		0.900	0.870	0.970	0.990	1.400	N/A	1.520	N/A	

Test System Validation

Prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at 835MHz by using the system validation kit(s). (Graphic Plots Attached)

Table 12.2 System Validation

	SYSTEM	DIPOLE VALIDATION TA	RGET & MEASURED	
System Validation Kit:	835MHz	Targeted SAR _{1g} (mW/g)	Measured SAR _{1g} (mW/g)	Deviation (%)
D-835S, S/N: 103	Brain	2.375	2.44	+ 2.59





Figure 12.1 Dipole Validation Test Setup

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13. SAR TEST DATA SUMMARY

See Measurement Result Data Pages

Procedures Used To Establish Test Signal

The handset was placed into simulated call mode (Cellular CDMA mode) using manufacturers test codes. Such test signals offer a consistent means for testing SAR and are recommended for evaluating SAR [4]. When test modes are not available or inappropriate for testing a handset, the actual transmission is activated through a base station simulator or similar equipment. See data pages for actual procedure used in measurement.

Device Test Conditions

The handset is battery operated. Each SAR measurement was taken with a fully charged battery. In order to verify that the device was tested at full power, conducted output power measurements were performed before and after each SAR measurement to confirm the output power. If a conducted power deviation of more than 5% occurred, the test was repeated.

EUT Handset Reference Points

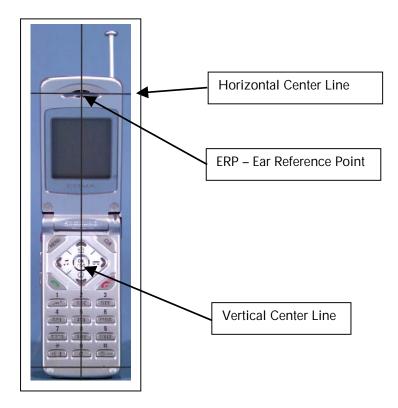


Figure 13.1 Handset Reference Points

PCTEST™ SAR TEST REPORT	PCTEST Transaction for the second section for the second sec	FCC CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
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SAR DATA SUMMARY

Mixture Type: 835MHz Brain

14.1 N	4.1 MEASUREMENT RESULTS (CDMA Right Head SAR – Touch)									
FREQU	ENCY	Modulation Begin / End POWER [‡]		Device Test	Antenna	SAR				
MHz	Ch.	Modulation	(dE	3m)	Battery	Position	Position	(W/kg)		
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.88		
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.92		
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.82		
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.87		
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.95		
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	1.04		
848.31	777	CDMA	24.5	24.5	Standard	Cheek / Touch	Out	0.99		
		/ IEEE C95.1 199 Spatial I rolled Exposure	Peak			1.6 W	Brain //kg (mW/g) ed 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].
- 2. All modes of operation were investigated, and worst-case results are reported.
- 3. Battery is fully charged for all readings. Standard & Extended Batteries are options.

	[‡] Power Measured	X	Conducted		ERP		EIRP
4.	SAR Measurement System		DASY3	X	IDX		
	Phantom Configuration		Left Head		Flat Phantom	X	Right Head
5.	SAR Configuration	X	Head		Body		Hand
ó.	Test Signal Call Mode	X	Manu. Test Codes		Base Station Simula	itor	

- 7. Tissue parameters and temperatures are listed on the SAR plots.
- 8. Liquid tissue depth is 15.1 cm. \pm 0.1

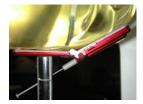


Figure 14.1 Right Head SAR Test Setup
-- Cheek / Touch Position --

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Mixture Type: 835MHz Brain

14.2 MEASUREMENT RESULTS (CDMA Right Head SAR – Tilt)									
FREQU	IENCY	Modulation	Device Test	SAR					
MHz	Ch.	Woddiation	(di	3m)	Battery	Position	Position	(W/kg)	
848.31	777	CDMA	24.5 24.5 Extended		Ear / 15° Tilt	In	0.14		
848.31	777	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	Out	0.16	
		/ IEEE C95.1 199 Spatial I rolled Exposure		Brain //kg (mW/g) ged 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].
- 2. All modes of operation were investigated, and worst-case results are reported.
- 3. Battery is fully charged for all readings. Standard & Extended Batteries are options.

	[‡] Power Measured	X	Conducted		ERP		EIRP
4.	SAR Measurement System		DASY3	X	IDX		
	Phantom Configuration		Left Head		Flat Phantom	X	Right Head
5.	SAR Configuration	X	Head		Body		Hand
6.	Test Signal Call Mode	X	Manu. Test Codes		Base Station Simula	ator	
_							

- 7. Tissue parameters and temperatures are listed on the SAR plots.
- 8. Liquid tissue depth is 15.1 cm. \pm 0.1
- 9. 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.



Figure 14.2 Right Head SAR Test Setup
-- Ear / 15° Tilt Position --

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Mixture Type: 835MHz Brain

14.3 N	14.3 MEASUREMENT RESULTS (CDMA Left Head SAR - Touch)								
FREQU	IENCY	Modulation	Beg	Begin / End POWER [‡]		Device Test	Antenna	SAR	
MHz	Ch.	Modulation	(di	3m)	Battery	Position	Position	(W/kg)	
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.86	
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.91	
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.82	
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.86	
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.89	
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	1.00	
848.31	777	CDMA	24.5	24.5	Standard	Cheek / Touch	Out	1.00	
		/ IEEE C95.1 199 Spatial I	1.6 W	Brain //kg (mW/g) ed 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].
- 2. All modes of operation were investigated, and worst-case results are reported.

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	[‡] Power Measured	X	Conducted		ERP		EIRP
4.	SAR Measurement System		DASY3	X	IDX		
	Phantom Configuration	X	Left Head		Flat Phantom		Right Head
5.	SAR Configuration	X	Head		Body		Hand
6.	Test Signal Call Mode	X	Manu. Test Codes		Base Station Simula	tor	

- 7. Tissue parameters and temperatures are listed on the SAR plots.
- 8. Liquid tissue depth is 15.1 cm. \pm 0.1



Figure 14.3 Left Head SAR Test Setup
-- Cheek / Touch Position --

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Mixture Type: 835MHz Brain

14.4 MEASUREMENT RESULTS (CDMA Left Head SAR – Tilt)									
FREQUENCY Begin / End POWER [‡]						Device Test Antenna		SAR	
MHz	Ch.	Woddiation	(di	Bm)	Battery	Position	Position	(W/kg)	
848.31	777	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	In	0.13	
848.31	777	CDMA	24.5 24.5 Extended		Ear / 15° Tilt	Out	0.15		
		/ IEEE C95.1 199 Spatial I rolled Exposure		Brain //kg (mW/g) ged 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].
- 2. All modes of operation were investigated, and worst-case results are reported.
- 3. Battery is fully charged for all readings. Standard & Extended Batteries are options.

	[‡] Power Measured	X	Conducted		ERP		EIRP
4.	SAR Measurement System		DASY3	X	IDX		
	Phantom Configuration		Left Head		Flat Phantom	X	Right Head
5.	SAR Configuration	X	Head		Body		Hand
6.	Test Signal Call Mode	X	Manu. Test Codes		Base Station Simula	ator	
_							

- 7. Tissue parameters and temperatures are listed on the SAR plots.
- 8. Liquid tissue depth is 15.1 cm. \pm 0.1
- 9. 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.



Figure 14.4 Left Head SAR Test Setup
-- Ear / 15° Tilt Position --

PCTEST™ SAR TEST REPORT	PCTEST Transaction for the second section for the second sec	FCC CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
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Mixture Type: 835MHz Muscle

14.5 M	14.5 MEASUREMENT RESULTS (CDMA Body SAR w/o Holster)									
FREQU	IENCY	Modulation	Beg	Begin / End POWER [‡]		Separation	Antenna	SAR		
MHz	Ch.	Wioddiation	(dE	3m)	Battery	Distance (cm) **	Position	(W/kg)		
824.70	1013	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.40		
824.70	1013	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.53		
835.89	363	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.39		
835.89	363	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.47		
848.31	777	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.41		
848.31	777	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.51		
824.70	1013	CDMA	24.5	24.5	Extended	1.5 [w/o Holster]	Out	0.36		
		/ IEEE C95.1 199 Spatial I	1.6 W	/luscle /kg (mW/g) ed over 1 gram						

NOTES:

- 1. The test data reported are the worst-case SAR value with the antenna-head position set in atypical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
- 2. All modes of operation were investigated, and worst-case results are reported.
- 3. Battery is fully charged for all readings. Standard & Extended Batteries are options.

	[‡] Power Measured	X	Conducted		ERP		EIRP
4.	SAR Measurement System		DASY3	X	IDX		
	Phantom Configuration		Left Head	X	Flat Phantom		Right Head
5.	SAR Configuration		Head	X	Body		Hand
6.	Test Signal Call Mode	X	Manu. Test Codes		Base Station Simula	itor	
7.	^{‡‡} Test Configuration		With Holster	X	Without Holster		

- 8. Tissue parameters and temperatures are listed on the SAR plots.
- 9. Both sides of the phone were tested and the worst-case side is reported.
- 10. Liquid tissue depth is 15.1 cm. \pm 0.1

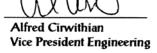




Figure 14.5 Body SAR Test Setup
-- w/o Holster --

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15. SAR TEST EQUIPMENT

Equipment Calibration

Table 15.1 Test Equipment Calibration

EQUIPMENT SPECIFICATIONS								
Туре	Calibration Date	Serial Number						
CRS Robot F3	February 2002	RAF0134133						
CRS C500C Motion Controller	February 2002	RCB0003303						
CRS Teach Pendant (Joystick)	February 2002	STP0132231						
DELL Computer, Pentium 4 1.6 GHz, Windows 2000™	February 2002							
E-Field Probe E-010	February 2002	PCT002						
Right Ear SAM Phantom (P-SAM-R)	February 2002							
Left Ear SAM Phantom (P-SAM-L)	February 2002							
IDX Robot End Effector (EE-103-C)	February 2002	07111223						
IDX Probe Amplifier	February 2002	07111113						
Validation Dipole D-835S	February 2002	PCT640						
Brain Equivalent Matter (835MHz)	May 2002	PCTBEM101						
Muscle Equivalent Matter (835MHz)	May 2002	PCTMEM201						
Microwave Amp. Model: 5S1G4, (800MHz - 4.2GHz)	January 2002	22332						
Gigatronics 8651A Power Meter	January 2002	1835299						
HP-8648D (9kHz ~ 4GHz) Signal Generator	January 2002	PCT530						
Amplifier Research 5S1G4 Power Amp	January 2002	PCT540						
HP-8753E (30kHz ~ 3GHz) Network Analyzer	January 2002	PCT552						
HP85070B Dielectric Probe Kit	January 2002	PCT501						
Ambient Noise/Reflection, etc.	January 2002	<12mW/kg/<3%of SAR						

NOTE:

The E-field probe was calibrated by IDX, by temperature measurement procedure. Dipole Validation measurement is performed by PCTEST Lab. before each test. The brain simulating material is calibrated by PCTEST using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.

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: 9-May-02 12:12:34 pm : 9-May-02 12:18:32 pm End

Code Version : 4.08 Robot Version: 4.08

Product Data:

: SAMSUNG Type Model Number : SCH-A591 Serial Number : 2

Frequency : 848.31 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical Antenna Posn. : Out

Measurement Data:

: SAM-R Phantom Name Phantom Type : Right Ear Tissue Type : Brain Tissue Dielectric : 40.600 Tissue Conductivity: 0.910 Tissue Density : 1.000 Robot Name : CRS

Probe Data:

Probe Name : PCT002

Probe Type : E Fld Triangle

Frequency : 835 MHz : Brain Tissue Type Calibrated Dielectric : 40.700 Calibrated Conductivity: 0.890 Calibrated Density : 1.000 : 2.400 mm Probe Offset Conversion Factor : 5.800

Probe Sensitivity : 3.597 3.474 3.049 $mV/(mW/cm^2)$

Amplifier Gains : 20.00 20.00 20.00

Sample:

6000 Samples/Sec Rate: Count: 100 Samples

NIDAQ Gain: 5

Comments:

CDMA MODE CH-777

Cheek

CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.2 'C

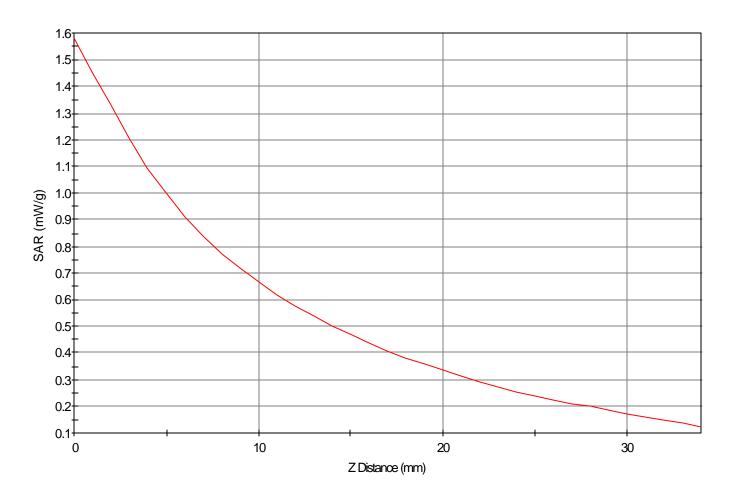
Area Scan - Max Peak SAR Value at x=74.0 y=13.0 = 1.00 W/kg

Zoom Scan - Max Peak SAR Value at x=73.0 y=13.0 z=0.0 = 1.58 W/kg

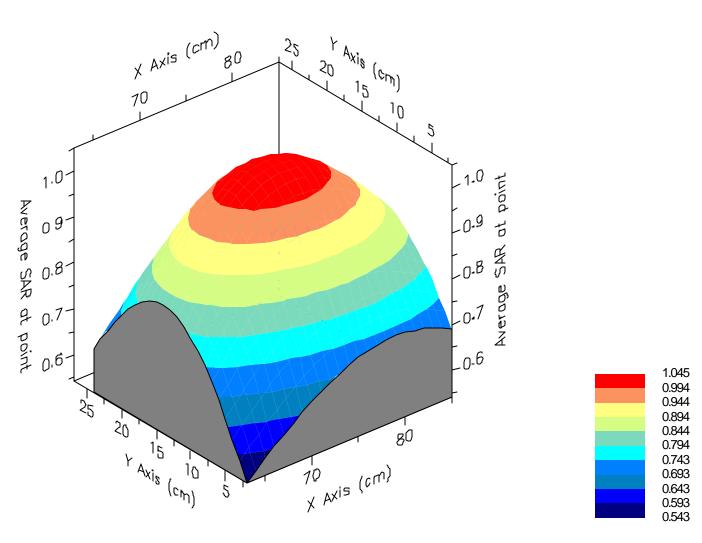
Max 1g SAR at x=74.0 y=14.0 z=0.0 = 1.04 W/kg

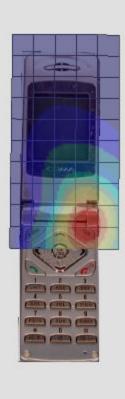
Max 10g SAR at x=75.0 y=14.0 z=0.0 = 0.64 W/kg

SAR - Z Axis at Hotspot x:73.0 y:13.0



1g SAR Values





: 9-May-02 10:49:08 am : 9-May-02 11:00:22 am End

Code Version : 4.08 Robot Version: 4.08

Product Data:

: SAMSUNG Type Model Number : SCH-A591

Serial Number : 2

Frequency : 848.31 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical Antenna Posn. : Out

Measurement Data:

: SAM-L Phantom Name Phantom Type : Left Ear Tissue Type : Brain Tissue Dielectric : 40.600 Tissue Conductivity: 0.910 Tissue Density : 1.000 Robot Name : CRS

Probe Data:

Probe Name : PCT002

Probe Type : E Fld Triangle

Frequency : 835 MHz : Brain Tissue Type Calibrated Dielectric : 40.700 Calibrated Conductivity: 0.890 Calibrated Density : 1.000 : 2.400 mm Probe Offset Conversion Factor : 5.800

Probe Sensitivity : 3.597 3.474 3.049 $mV/(mW/cm^2)$

Amplifier Gains : 20.00 20.00 20.00

Sample:

6000 Samples/Sec Rate: Count: 100 Samples

NIDAQ Gain: 5

Comments:

CDMA MODE CH-777

Cheek

CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.2 'C

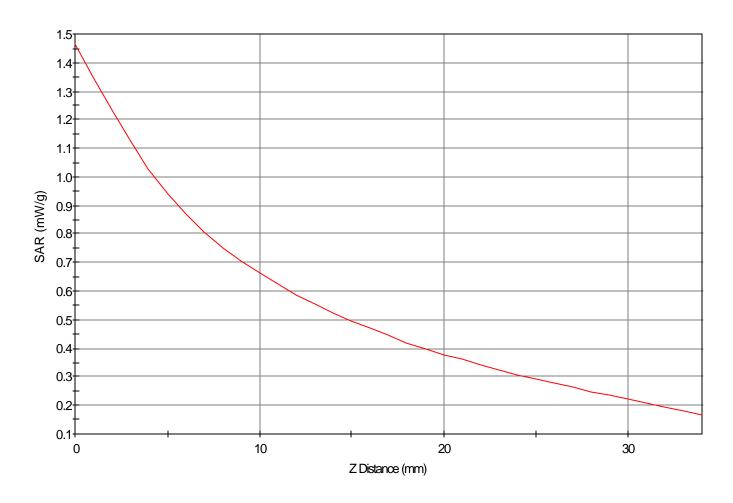
Area Scan - Max Peak SAR Value at x=74.0 y=7.0 = 0.97 W/kg

Zoom Scan - Max Peak SAR Value at x=71.0 y=8.0 z=0.0 = 1.47 W/kg

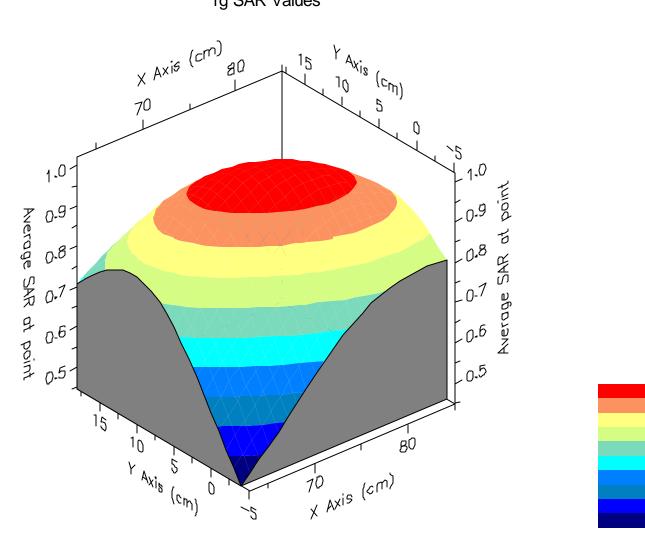
Max 1g SAR at x=75.0 y=7.0 z=0.0 = 1.00 W/kg

Max 10g SAR at x=76.0 y=6.0 z=0.0 = 0.64 W/kg

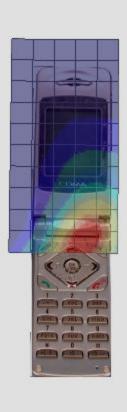
SAR - Z Axis at Hotspot x:71.0 y:8.0



1g SAR Values



1.002 0.947 0.891 0.836 0.780 0.724 0.669 0.613 0.558 0.502 0.447



: 9-May-02 12:36:35 pm : 9-May-02 12:42:39 pm End

Code Version : 4.08 Robot Version: 4.08

Product Data:

: SAMSUNG Type Model Number : SCH-A591 Serial Number : 2

Frequency : 848.31 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical Antenna Posn. : Out

Measurement Data:

: SAM-R Phantom Name Phantom Type : Right Ear Tissue Type : Brain Tissue Dielectric : 40.600 Tissue Conductivity: 0.910 Tissue Density : 1.000 Robot Name : CRS

Probe Data:

Probe Name : PCT002

Probe Type : E Fld Triangle

Frequency : 835 MHz : Brain Tissue Type Calibrated Dielectric : 40.700 Calibrated Conductivity: 0.890 Calibrated Density : 1.000 : 2.400 mm Probe Offset Conversion Factor : 5.800

Probe Sensitivity : 3.597 3.474 3.049 $mV/(mW/cm^2)$

Amplifier Gains : 20.00 20.00 20.00

Sample:

6000 Samples/Sec Rate: Count: 100 Samples

NIDAQ Gain: 5

Comments:

CDMA MODE CH-777

CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.2 'C

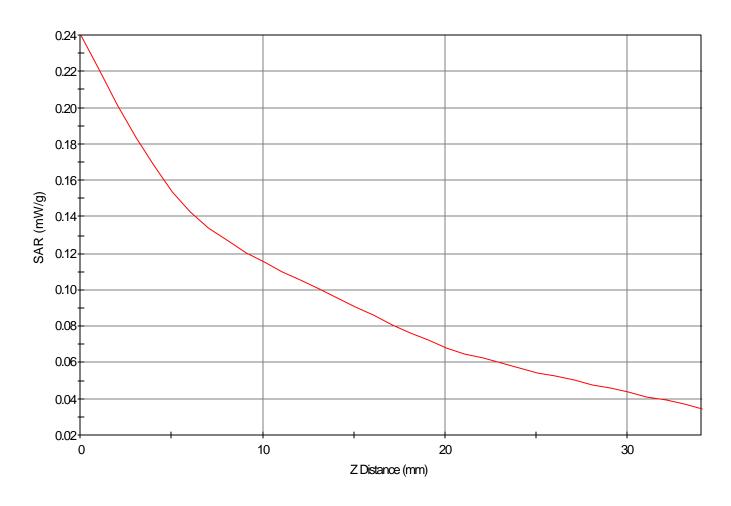
Area Scan - Max Peak SAR Value at x=53.0 y=9.0 = 0.14 W/kg

Zoom Scan - Max Peak SAR Value at x=53.0 y=9.0 z=0.0 = 0.24 W/kg

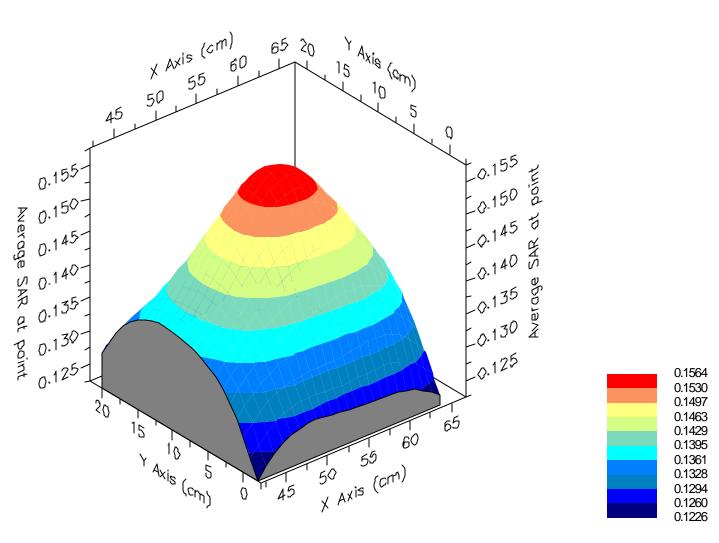
Max 1g SAR at x=54.0 y=9.0 z=0.0 = 0.16 W/kg

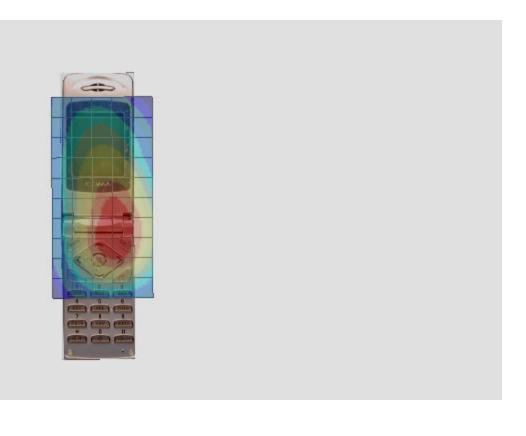
Max 10g SAR at x=53.0 y=9.0 z=0.0 = 0.11 W/kg

SAR - Z Axis at Hotspot x:53.0 y:9.0



1g SAR Values





: 9-May-02 11:10:19 am : 9-May-02 11:16:38 am End

Code Version : 4.08 Robot Version: 4.08

Product Data:

: SAMSUNG Type Model Number : SCH-A591

Serial Number : 2

Frequency : 848.31 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical Antenna Posn. : Out

Measurement Data:

: SAM-L Phantom Name Phantom Type : Left Ear Tissue Type : Brain Tissue Dielectric : 40.600 Tissue Conductivity: 0.910 Tissue Density : 1.000 Robot Name : CRS

Probe Data:

Probe Name : PCT002

Probe Type : E Fld Triangle

Frequency : 835 MHz : Brain Tissue Type Calibrated Dielectric : 40.700 Calibrated Conductivity: 0.890 Calibrated Density : 1.000 : 2.400 mm Probe Offset Conversion Factor : 5.800

Probe Sensitivity : 3.597 3.474 3.049 $mV/(mW/cm^2)$

Amplifier Gains : 20.00 20.00 20.00

Sample:

6000 Samples/Sec Rate: Count: 100 Samples

NIDAQ Gain: 5

Comments:

CDMA MODE CH-777

CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.2 'C

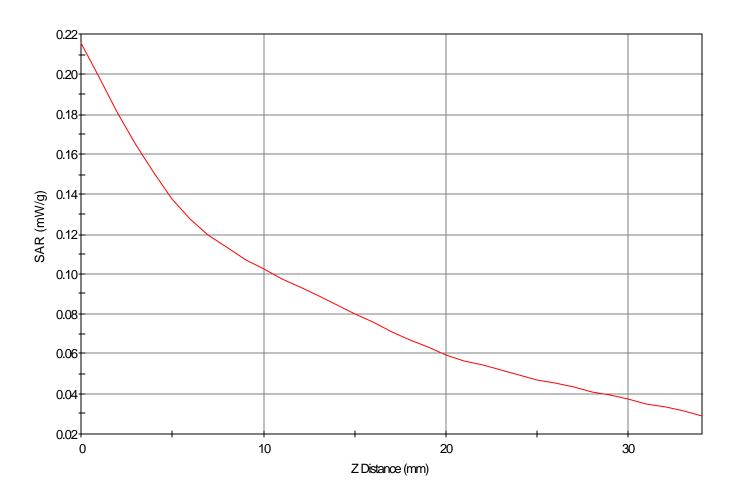
Area Scan - Max Peak SAR Value at x=43.0 y=8.0 = 0.14 W/kg

Zoom Scan - Max Peak SAR Value at x=34.0 y=8.0 z=0.0 = 0.22 W/kg

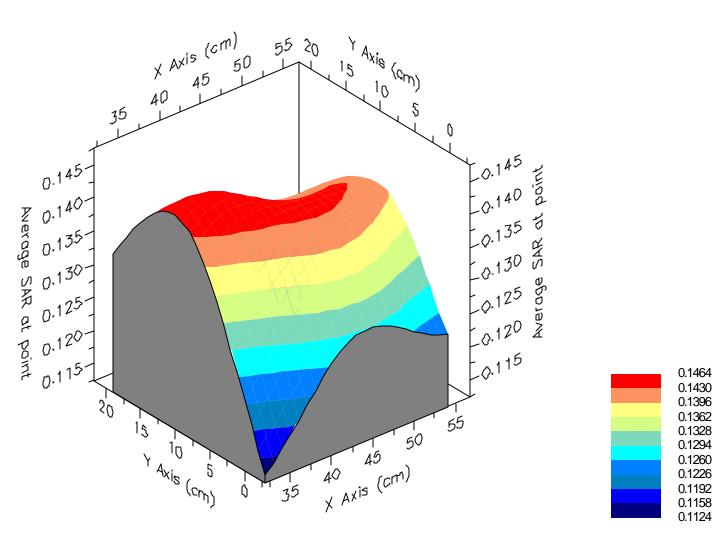
Max 1g SAR at x=36.0 y=9.0 z=0.0 = 0.15 W/kg

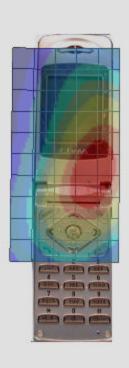
Max 10g SAR at x=39.0 y=10.0 z=0.0 = 0.10 W/kg

SAR - Z Axis at Hotspot x:34.0 y:8.0



1g SAR Values





: 9-May-02 05:27:21 pm : 9-May-02 05:33:22 pm End

Code Version : 4.08 Robot Version: 4.08

Product Data:

: SAMSUNG Type Model Number : SCH-A591 Serial Number : 2

Frequency : 824.70 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical

Antenna Posn. : Out

Measurement Data:

Phantom Name : SAM-FLAT Phantom Type : Uniphantom Tissue Type : Muscle Tissue Dielectric : 57.260 Tissue Conductivity: 0.990 Tissue Density : 1.000 Robot Name : CRS

Probe Data:

Probe Name : PCT002

Probe Type : E Fld Triangle

Frequency : 835 MHz : Muscle Tissue Type Calibrated Dielectric : 55.700 Calibrated Conductivity: 0.990 Calibrated Density : 1.000 : 2.400 mm Probe Offset Conversion Factor : 2.400

Probe Sensitivity : 3.597 3.474 3.049 $mV/(mW/cm^2)$

Amplifier Gains : 20.00 20.00 20.00

Sample:

6000 Samples/Sec Rate: Count: 100 Samples

NIDAQ Gain: 5

Comments:

CDMA MODE CH-1013

Body

CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.2 'C

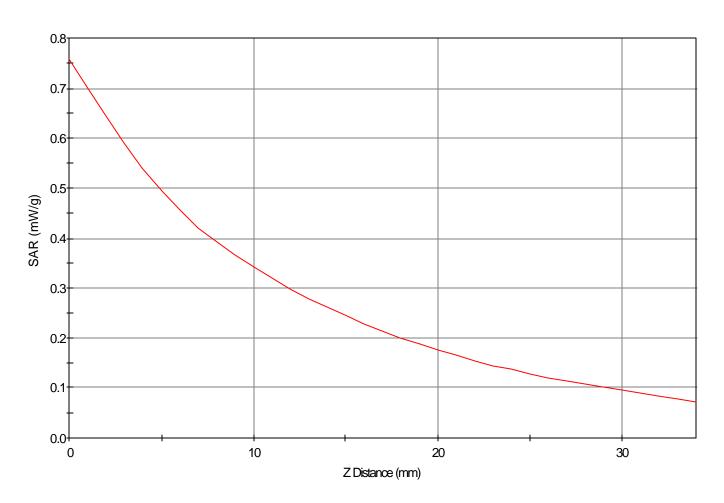
Area Scan - Max Peak SAR Value at x=0.0 y=-9.0 = 0.51 W/kg

Zoom Scan - Max Peak SAR Value at x=0.0 y=-11.0 z=0.0 = 0.76 W/kg

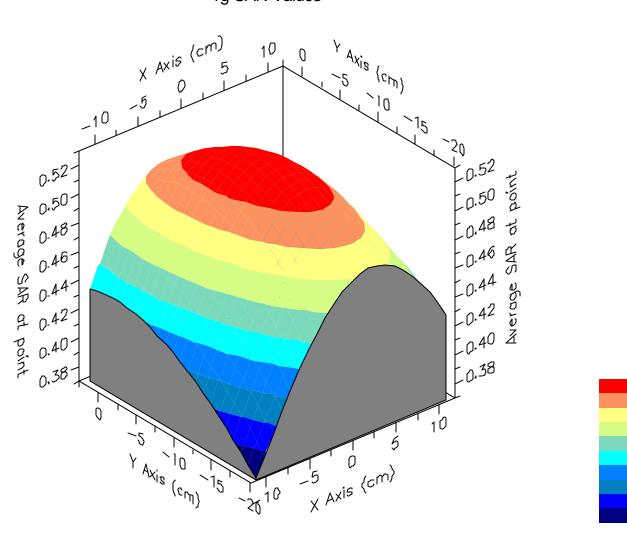
Max 1g SAR at x=0.0 y=-8.0 z=0.0 = 0.53 W/kg

Max 10g SAR at x=0.0 y=-8.0 z=0.0 = 0.35 W/kg

SAR - Z Axis at Hotspot x:0.0 y:-11.0



1g SAR Values



0.528

0.512 0.496 0.481 0.465 0.449 0.434 0.418 0.402 0.387 0.371

