



PCTEST ENGINEERING LABORATORY, INC.
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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.220507242.A3L
 Test Site: PCTEST Lab, Columbia MD

FCC ID:	A3LSCHA222
APPLICANT:	SAMSUNG ELECTRONICS CO., LTD.

EUT Type: Single-Mode Cellular Phone (CDMA)
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 (23.983 dBm) / 24.5 dBm Conducted
Max. SAR Measurement: 1.04W/kg CDMA Head SAR;
 0.45W/kg CDMA Body SAR
Trade Name/Model(s): SCH-A222
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
Test Device Serial No.: Identical prototype



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.


 Alfred Cirwithian
 Vice President Engineering



PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 1 of 25

12. SYSTEM VERIFICATION

Tissue Verification

Table 12.1 Simulated Tissue Verification

MEASURED TISSUE PARAMETERS									
Date(s)	05/06/02	835MHz Brain		835MHz Muscle		1900MHz Brain		1900MHz Muscle	
Liquid Temperature (°C)	22.7	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	0.910	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 TARGET & MEASURED				
System Validation Kit: D-835S, S/N: 103	835MHz Brain	Targeted SAR _{1g} (mW/g) 2.375	Measured SAR _{1g} (mW/g) 2.44	Deviation (%) + 2.59

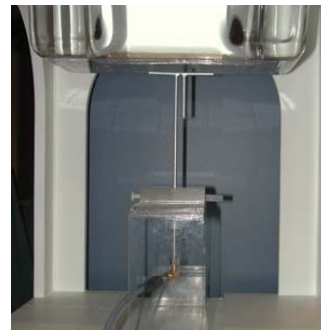




Figure 12.1 Dipole Validation Test Setup

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 16 of 25

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

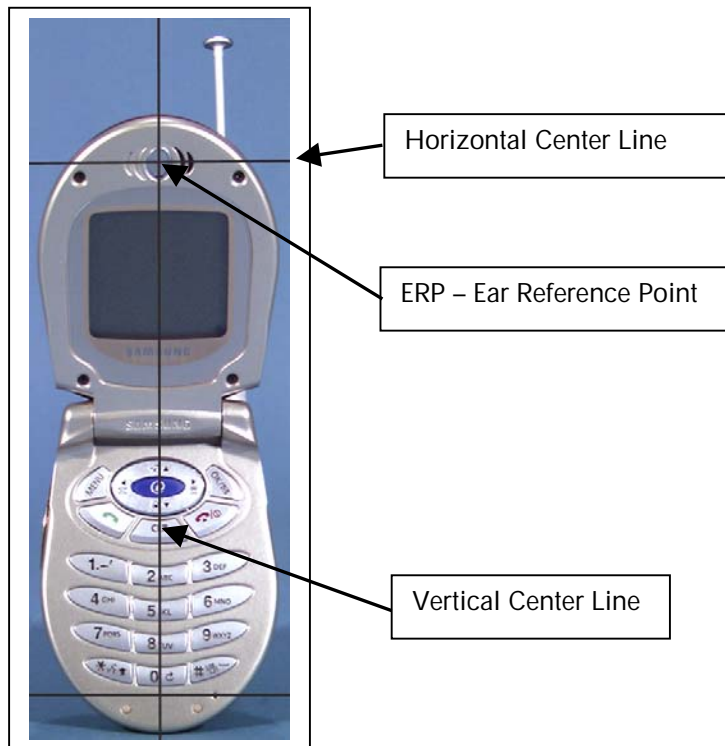




Figure 13.1 Handset Reference Points

PCTEST™ SAR TEST REPORT	 PCTEST Engineering Laboratory, Inc.	FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 17 of 25

SAR DATA SUMMARY

Mixture Type: 835MHz Brain

14.1 MEASUREMENT RESULTS (CDMA Right Head SAR – Touch)

FREQUENCY		Modulation	Begin / End POWER [†]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.67
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.97
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.67
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.72
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.70
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.75
824.70	1013	CDMA	24.5	24.5	Standard	Cheek / Touch	Out	0.87
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Brain		
Spatial Peak						1.6 W/kg (mW/g)		
Uncontrolled Exposure/General Population						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. *Standard & Extended Batteries are options.*

- | | | | |
|---------------------------|--|---|--|
| *Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input type="checkbox"/> DAS3 | <input checked="" type="checkbox"/> IDX | |
| Phantom Configuration | <input type="checkbox"/> Left Head | <input type="checkbox"/> Flat Phantom | <input checked="" type="checkbox"/> Right Head |
| 5. SAR Configuration | <input checked="" type="checkbox"/> Head | <input type="checkbox"/> Body | <input type="checkbox"/> Hand |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator | |

7. Tissue parameters and temperatures are listed on the SAR plots.

8. Liquid tissue depth is 15.1 cm. ± 0.1



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Vice President Engineering

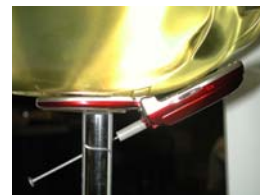




Figure 14.1 Right Head SAR Test Setup
-- Cheek / Touch Position --

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 18 of 25

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.2 MEASUREMENT RESULTS (CDMA Right Head SAR – Tilt)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	In	0.22
824.70	1013	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	Out	0.26
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. *Standard & Extended Batteries are options.*
- [‡]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.


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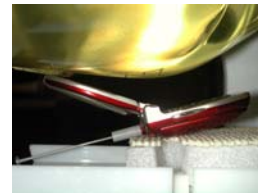




Figure 14.2 Right Head SAR Test Setup
 -- Ear / 15° Tilt Position --

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 19 of 25

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.3 MEASUREMENT RESULTS (CDMA Left Head SAR - Touch)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.96
824.70	1013	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	1.04
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.85
835.89	363	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.98
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	In	0.90
848.31	777	CDMA	24.5	24.5	Extended	Cheek / Touch	Out	0.88
824.70	1013	CDMA	24.5	24.5	Standard	Cheek / Touch	Out	1.03
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. *Standard & Extended Batteries are options.*
- | | | | |
|-----------------------------|--|---|-------------------------------------|
| [‡] Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input type="checkbox"/> DASY3 | <input checked="" type="checkbox"/> IDX | |
| Phantom Configuration | <input checked="" type="checkbox"/> Left Head | <input type="checkbox"/> Flat Phantom | <input type="checkbox"/> Right Head |
| 5. SAR Configuration | <input checked="" type="checkbox"/> Head | <input type="checkbox"/> Body | <input type="checkbox"/> Hand |
| 6. Test Signal Call Mode | <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



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

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 20 of 25

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.4 MEASUREMENT RESULTS (CDMA Left Head SAR – Tilt)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	In	0.22
824.70	1013	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	Out	0.25
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Brain		
Spatial Peak						1.6 W/kg (mW/g)		
Uncontrolled Exposure/General Population						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. *Standard & Extended Batteries are options.*
- [‡]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.


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

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 21 of 25

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

14.5 MEASUREMENT RESULTS (CDMA Body SAR w/o Holster)								
FREQUENCY		Modulation	Begin / End POWER [†]			Separation Distance (cm) ^{††}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.32
824.70	1013	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.45
835.89	363	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.31
835.89	363	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.37
848.31	777	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.32
848.31	777	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.42
824.70	1013	CDMA	24.5	24.5	Extended	1.5 [w/o Holster]	Out	0.42
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle 1.6 W/kg (mW/g) averaged 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 | <input checked="" type="checkbox"/> | Conducted | <input type="checkbox"/> | ERP | <input type="checkbox"/> | EIRP |
| 4. SAR Measurement System | <input type="checkbox"/> | DASY3 | <input checked="" type="checkbox"/> | IDX | <input type="checkbox"/> | Right Head |
| Phantom Configuration | <input type="checkbox"/> | Left Head | <input checked="" type="checkbox"/> | Flat Phantom | <input type="checkbox"/> | Hand |
| 5. SAR Configuration | <input type="checkbox"/> | Head | <input checked="" type="checkbox"/> | Body | <input type="checkbox"/> | |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> | Manu. Test Codes | <input type="checkbox"/> | Base Station Simulator | | |
| 7. ^{††} Test Configuration | <input type="checkbox"/> | With Holster | <input checked="" type="checkbox"/> | 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. ± 0.1


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

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222	Page 22 of 25

15. SAR TEST EQUIPMENT



Equipment Calibration

Table 15.1 Test Equipment Calibration

EQUIPMENT SPECIFICATIONS			
Type	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.	<12mW/kg/<3%of SAR	January 2002	Anechoic Room PCT01

NOTE:

The E-field probe was calibrated by IDX, by temperature measurement procedure. PCTEST Lab re-calibrated the E-field probe, by using TEM Cell and wave guide 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.

PCTEST™ SAR TEST REPORT	 FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220507242.A3L	Test Dates: May 8-10, 2002	Phone Type: Single-Mode CDMA	FCC ID: A3LSCHA222
			Page 23 of 25

SAR Data Report 02050825

Start : 8-May-02 01:04:56 pm
End : 8-May-02 01:10:58 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : SAMSUNG
Model Number : SCH-A222
Serial Number : 2
Frequency : 824.70 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical
Antenna Posn. : Out

Measurement Data:

Phantom Name : SAM-R
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
Tissue Type : Brain
Calibrated Dielectric : 40.700
Calibrated Conductivity : 0.890
Calibrated Density : 1.000
Probe Offset : 2.400 mm
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:

Rate: 6000 Samples/Sec
Count: 100 Samples
NIDAQ Gain: 5

Comments:

CDMA MODE CH-1013
Cheek
CF=1; Amb. Temp= 21.5 'C; Liq. Temp=21.2 'C

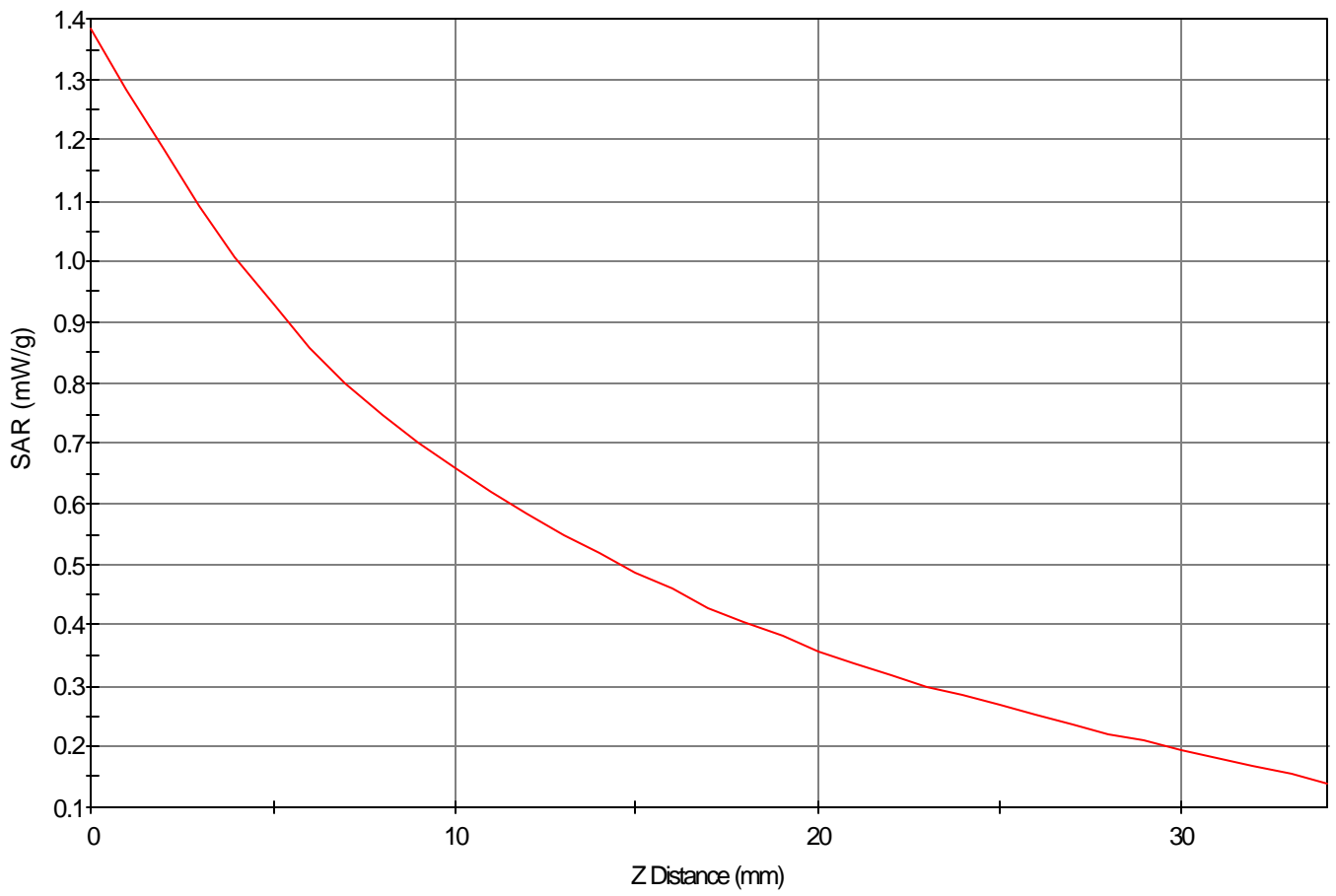
Area Scan - Max Peak SAR Value at x=65.0 y=13.0 = 0.94 W/kg

Zoom Scan - Max Peak SAR Value at x=66.0 y=13.0 z=0.0 = 1.38 W/kg

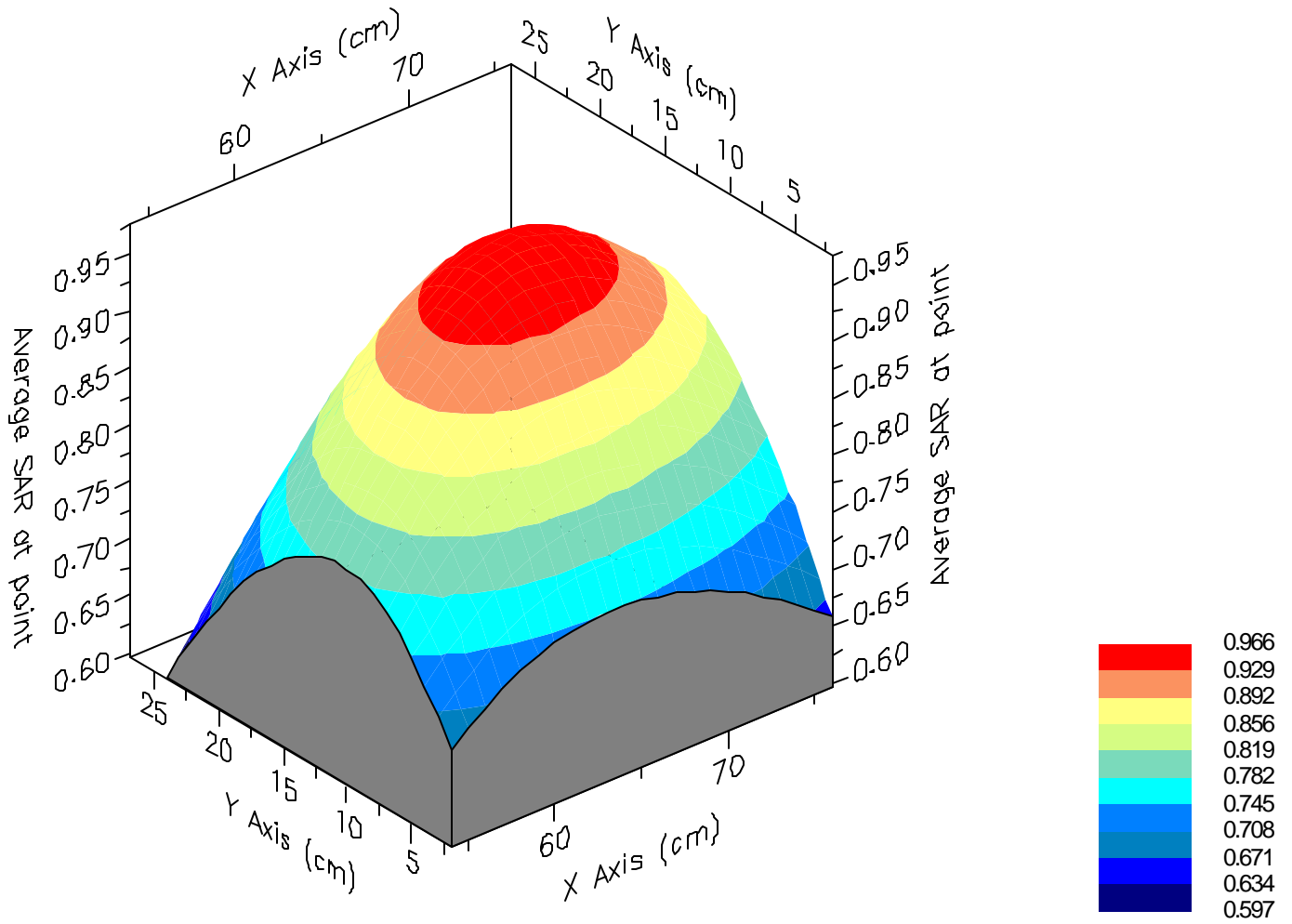
Max 1g SAR at x=66.0 y=14.0 z=0.0 = 0.97 W/kg

Max 10g SAR at x=67.0 y=13.0 z=0.0 = 0.63 W/kg

SAR - Z Axis
at Hotspot x:66.0 y:13.0



1g SAR Values





SAR Data Report 02050836

Start : 8-May-02 02:22:39 pm
End : 8-May-02 02:30:38 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : SAMSUNG
Model Number : SCH-A222
Serial Number : 2
Frequency : 824.70 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical
Antenna Posn. : Out

Measurement Data:

Phantom Name : SAM-L
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
Tissue Type : Brain
Calibrated Dielectric : 40.700
Calibrated Conductivity : 0.890
Calibrated Density : 1.000
Probe Offset : 2.400 mm
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:

Rate: 6000 Samples/Sec
Count: 100 Samples
NIDAQ Gain: 5

Comments:

CDMA MODE CH-1013
Cheek
CF=1; Amb. Temp= 21.5 'C; Liq. Temp=21.2 'C

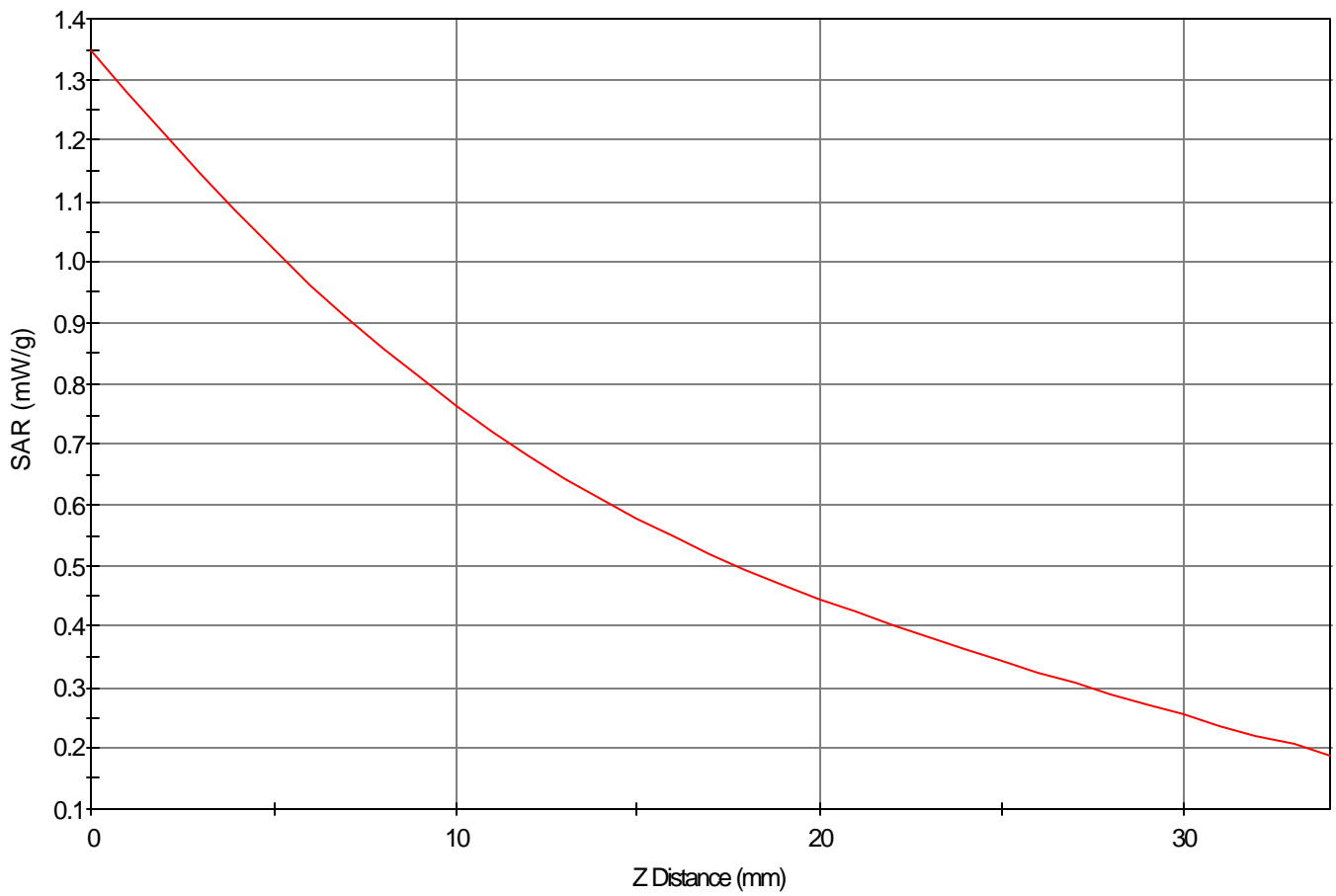
Area Scan - Max Peak SAR Value at x=66.0 y=9.0 = 1.04 W/kg

Zoom Scan - Max Peak SAR Value at x=68.0 y=8.0 z=0.0 = 1.35 W/kg

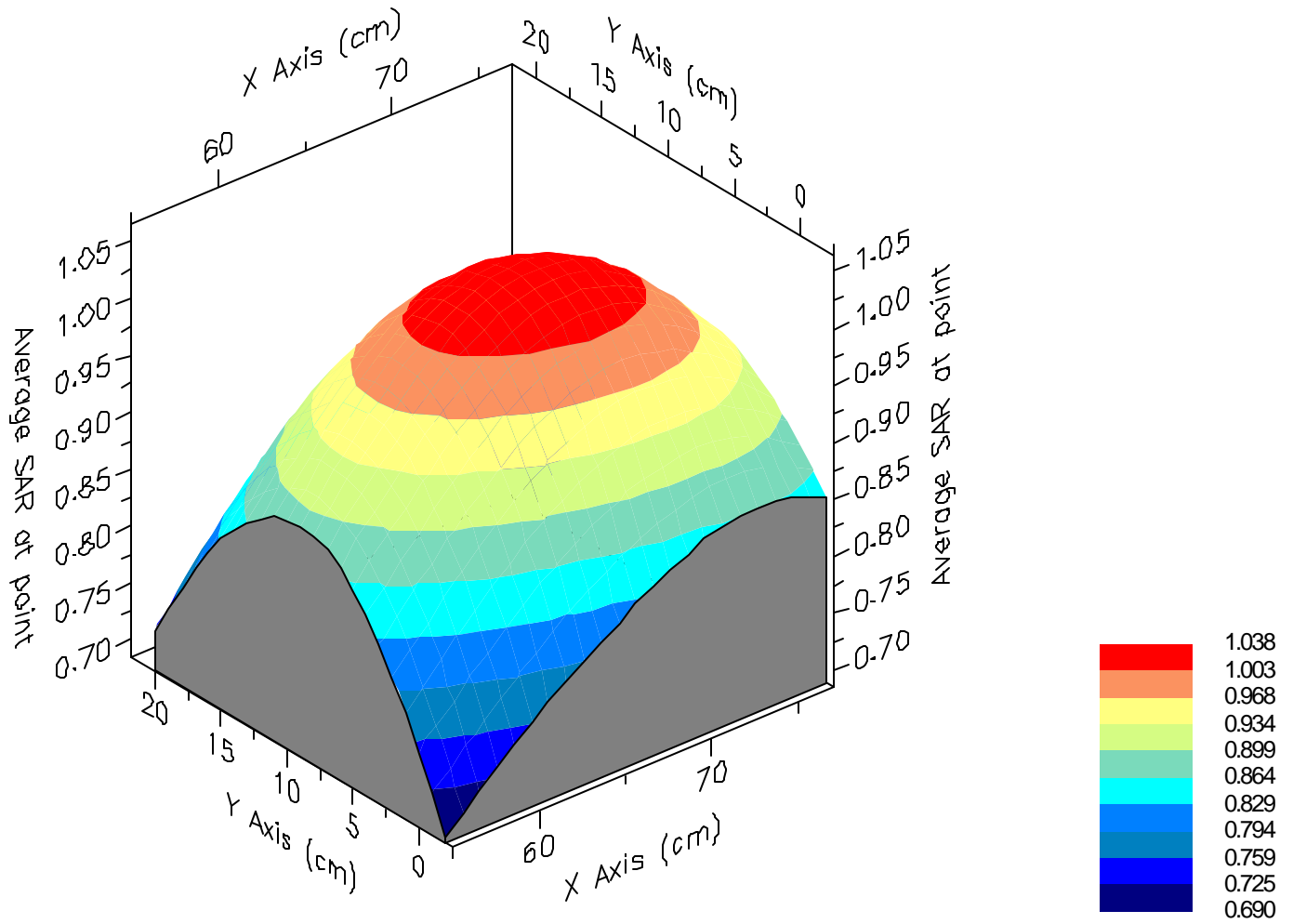
Max 1g SAR at x=68.0 y=8.0 z=0.0 = 1.04 W/kg

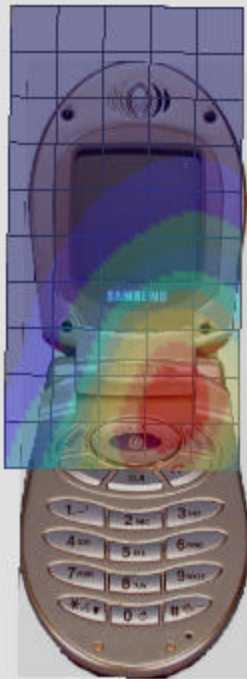
Max 10g SAR at x=67.0 y=8.0 z=0.0 = 0.71 W/kg

SAR - Z Axis
at Hotspot x:68.0 y:8.0



1g SAR Values





SAR Data Report 02050833

Start : 8-May-02 02:03:20 pm
End : 8-May-02 02:09:25 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : SAMSUNG
Model Number : SCH-A222
Serial Number : 2
Frequency : 824.70 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical
Antenna Posn. : Out

Measurement Data:

Phantom Name : SAM-R
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
Tissue Type : Brain
Calibrated Dielectric : 40.700
Calibrated Conductivity : 0.890
Calibrated Density : 1.000
Probe Offset : 2.400 mm
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:

Rate: 6000 Samples/Sec
Count: 100 Samples
NIDAQ Gain: 5

Comments:

CDMA MODE CH-1013
Tilt
CF=1; Amb. Temp= 21.5 'C; Liq. Temp=21.2 'C

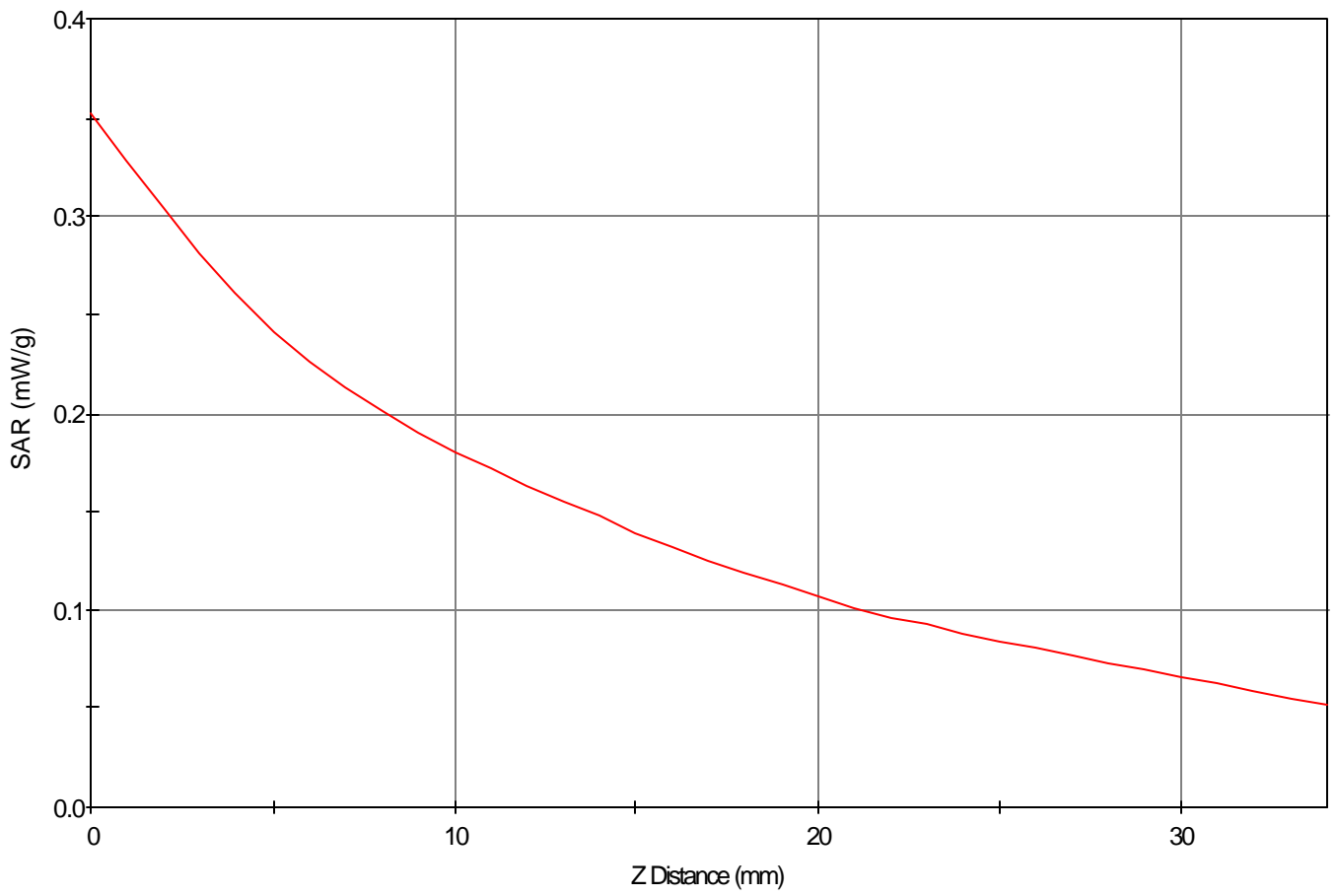
Area Scan - Max Peak SAR Value at x=33.0 y=1.0 = 0.25 W/kg

Zoom Scan - Max Peak SAR Value at x=30.0 y=-3.0 z=0.0 = 0.35 W/kg

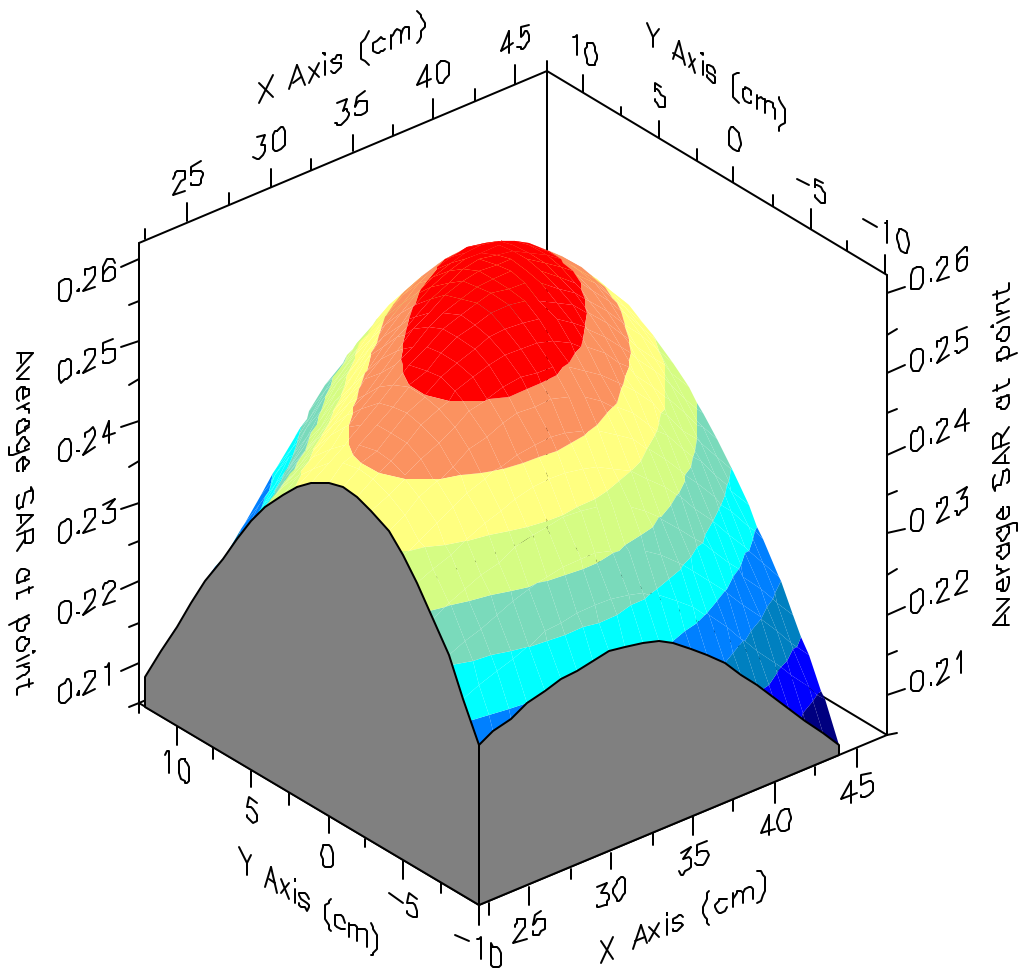
Max 1g SAR at x=34.0 y=2.0 z=0.0 = 0.26 W/kg

Max 10g SAR at x=35.0 y=2.0 z=0.0 = 0.18 W/kg

SAR - Z Axis
at Hotspot x:30.0 y:-3.0



1g SAR Values





SAR Data Report 02050843

Start : 8-May-02 03:34:18 pm
End : 8-May-02 03:40:39 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : SAMSUNG
Model Number : SCH-A222
Serial Number : 2
Frequency : 824.70 MHz
Transmit Pwr : 0.280 W
Antenna Type : Helical
Antenna Posn. : Out

Measurement Data:

Phantom Name : SAM-L
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
Tissue Type : Brain
Calibrated Dielectric : 40.700
Calibrated Conductivity : 0.890
Calibrated Density : 1.000
Probe Offset : 2.400 mm
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:

Rate: 6000 Samples/Sec
Count: 100 Samples
NIDAQ Gain: 5

Comments:

CDMA MODE CH-1013
Tilt
CF=1; Amb. Temp= 21.5 'C; Liq. Temp=21.2 'C

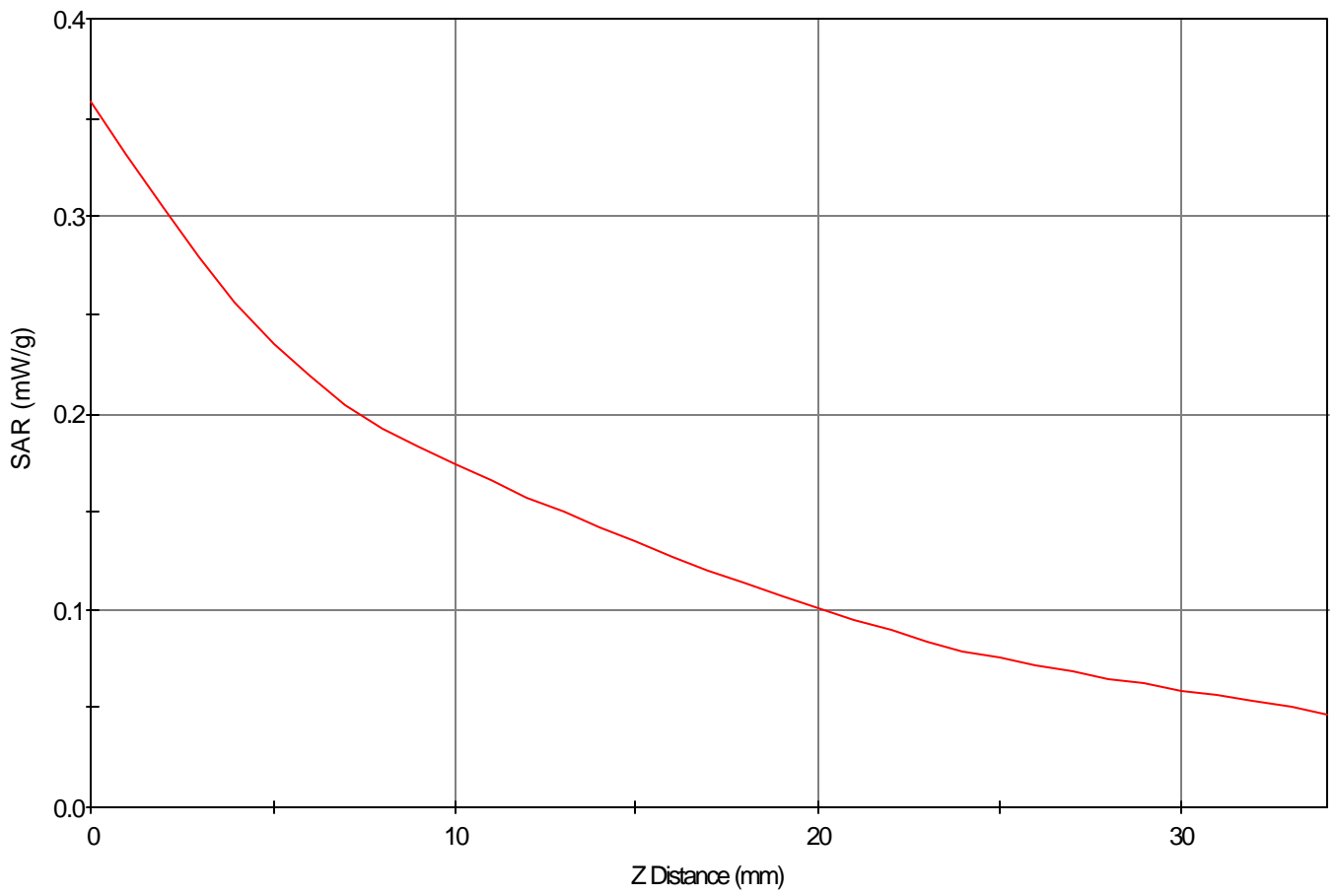
Area Scan - Max Peak SAR Value at x=34.0 y=9.0 = 0.25 W/kg

Zoom Scan - Max Peak SAR Value at x=32.0 y=3.0 z=0.0 = 0.36 W/kg

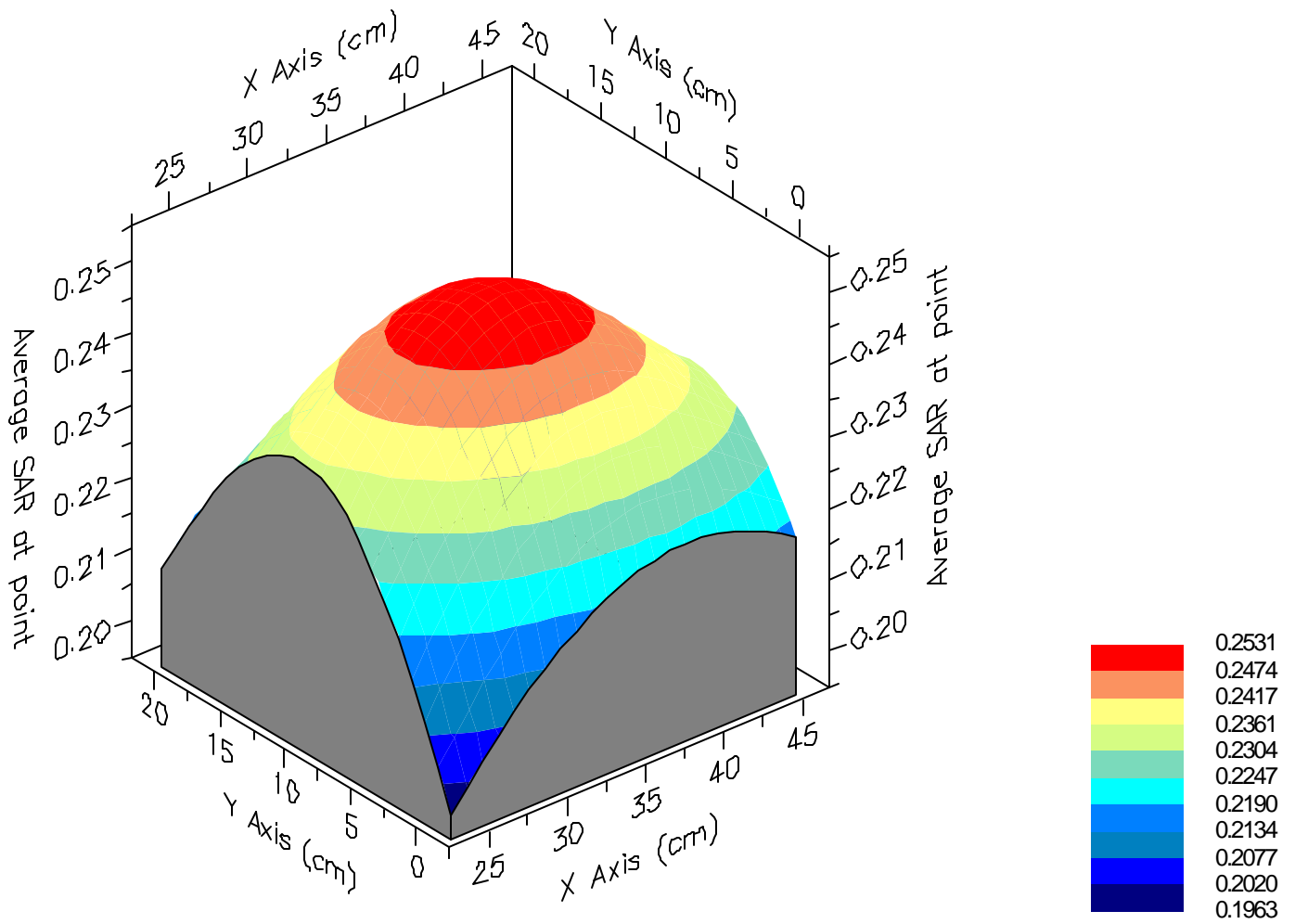
Max 1g SAR at x=33.0 y=7.0 z=0.0 = 0.25 W/kg

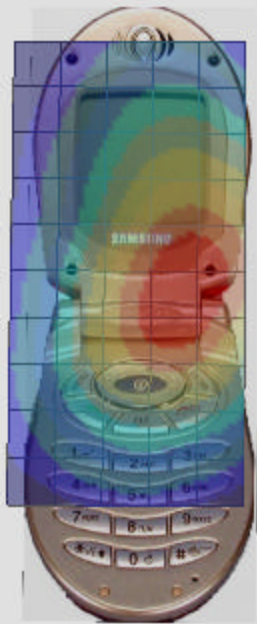
Max 10g SAR at x=33.0 y=9.0 z=0.0 = 0.18 W/kg

SAR - Z Axis
at Hotspot x:32.0 y:3.0



1g SAR Values





SAR Data Report 02050942

Start : 9-May-02 03:40:51 pm
End : 9-May-02 03:46:54 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : SAMSUNG
Model Number : SCH-A222
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
Tissue Type : Muscle
Calibrated Dielectric : 55.700
Calibrated Conductivity : 0.990
Calibrated Density : 1.000
Probe Offset : 2.400 mm
Conversion Factor : 4.900
Probe Sensitivity : 3.597 3.474 3.049 mV/(mW/cm^2)
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec
Count: 100 Samples
NIDAQ Gain: 5

Comments:

CDMA MODE CH-1013
Body
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.2 'C

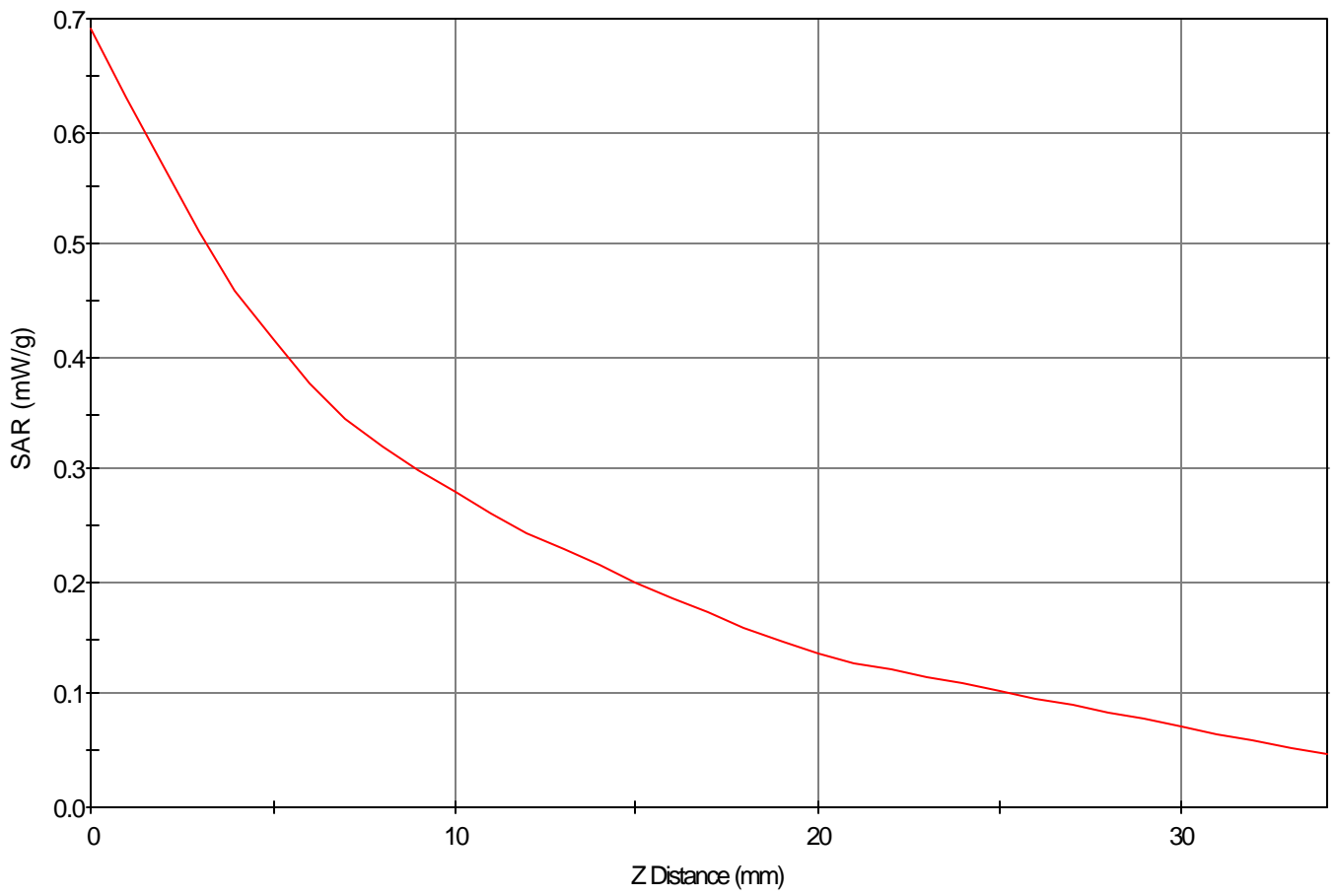
Area Scan - Max Peak SAR Value at x=3.0 y=-6.0 = 0.44 W/kg

Zoom Scan - Max Peak SAR Value at x=1.0 y=2.0 z=0.0 = 0.69 W/kg

Max 1g SAR at x=3.0 y=-2.0 z=0.0 = 0.45 W/kg

Max 10g SAR at x=4.0 y=-6.0 z=0.0 = 0.30 W/kg

SAR - Z Axis
at Hotspot x:1.0 y:2.0



1g SAR Values

