Exhibit 11: Class II Permissive Change, SAR Test Report - IHDT56CL1

Date of test:	December 19-26, 2002 & January 31, 2003
Date of Report:	February 7, 2003
Laboratory:	Motorola Personal Communications Sector Product Safety & Compliance Laboratory 2001 N. Division Room: AS228 Harvard, Illinois 60033
Test Responsible:	Steven Hauswirth Principal Staff Engineer
Accreditation:	This laboratory is accredited to ISO/IEC 17025-1999 to perform the following electromagnetic exposure tests: System Validation & Interlaboratory Comparison Simulated Tissue Specifications and Procedure EME Cellular Phone Testing Procedure On the following types of products: Wireless Communications Devices (Examples): Two Way Radios; Portable Phones (including Cellular, Licensed Non-Broadcast and PCS); Low Frequency Readers; and Pagers A2LA certificate #1651-01
Statement of Compliance:	Motorola declares under its sole responsibility that portable cellular telephone FCC ID IHDT56CL1 to which this declaration relates, is in conformity with the appropriate General Population/Uncontrolled RF exposure standards, recommendations and guidelines (FCC 47 CFR §2.1093). It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below: (none)

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Motorola encourages all feedback, both positive and negative, on this test report.

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References:

1. Introduction

The Motorola Personal Communications Sector Product Safety Laboratory has performed measurements of the maximum potential exposure to the user of portable cellular phone (FCC ID IHDT56CL1). The Specific Absorption Rate (SAR) of this product was measured. The portable cellular phone was tested in accordance with FCC OET Bulletin 65 Supplement C 01-01.

2. Description of the Device Under Test

Antenna description

Type	Stubby	
Location	Right Side	
Dimensions	Length	17mm
	Width	6mm
Configuration	Stubby	

Device description

FCC ID Number	IHDT56CL1	
Serial number	770472C0 & 770472BC	
Mode(s) of Operation	CDMA800	CDMA1900
Modulation Mode(s)	CDMA	CDMA
Maximum Output Power Setting	25.00 dBm	24.67 dBm
Duty Cycle	1:1	1:1
Transmitting Frequency Rang(s)	824.70 – 848.31 MHz	1851.25 – 1908.75 MHz
Production Unit or Identical Prototype (47 CFR §2..908)	Identical Prototype	
Device Category	Portable	
RF Exposure Limits	General Population / Uncontrolled	

3. Test Equipment Used

3.1 Dosimetric System

The Motorola Personal Communications Sector Product Safety & Compliance Laboratory utilizes a Dosimetric Assessment System (Dasy3™ v3.1d) manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is ±11.7% (K=1) with an expanded uncertainty of ±23.0% (K=2). The measurement uncertainty budget is given in Appendix 6. Per IEEE 1528, this uncertainty budget is applicable to the SAR range of 0.4 W/kg to 10 W/kg. The list of calibrated equipment used for the measurements is shown below.

Description	Serial Number	Cal Due Date
DASY3 DAE3 V1	SN434	13-Feb-03
E-Field Probe ET3DV6R	SN1522	25-Apr-03
DASY3 DAE3 V1	SN383	2-Sep-03
E-Field Probe ET3DV6R	SN1503	20-Nov-03
Dipole Validation Kit, D900V2	SN096	3-Jan-03
S.A.M. Phantom used for 800MHz	TP-1155	
Dipole Validation Kit, D1800V2	SN259	25-Jan-04
Dipole Validation Kit, D1800V2	SN250TR	24-Aug-03
S.A.M. Phantom used for 1900MHz	TP-1157	
S.A.M. Phantom used for 1900MHz	TP-1154	

3.2 Additional Equipment

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3847A04832	18-Jan-03
Power Meter E4419B	GB39511082	18-Jan-03
Power Sensor #1 – E9301A	US39210932	14-Feb-03
Power Sensor #2 - E9301A	US39210931	23-Feb-03
Network Analyzer HP8753ES	US39171846	2-May-03
Dielectric Probe Kit HP85070B	US99360074	N/A

4. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ε_r, and the conductivity, σ, of the tissue simulating liquids were measured with the HP85070 Dielectric Probe Kit These values, along with the temperature of the tissue simulate are shown in the table below. The recommended limits for maximum permittivity and minimum conductivity are also shown. These come from the Federal Communication Commission, OET Bulletin 65 Supplement C 01-01. It is seen that the measured parameters are satisfactory for compliance testing.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			ε_r	σ (S/m)	Temp (°C)
835	**Head**	**Measured,** 19-Dec-02	41.7	0.92	22.4
		Recommended Limits	41.5	0.90	20-25
	Body	**Measured,** 21-Dec-02	53.0	0.97	22.3
		Recommended Limits	55.2	0.97	20-25
1880	**Head**	**Measured,** 26-Dec-02	38.2	1.45	21.0
		Recommended Limits	40.0	1.40	20-25
	Body	**Measured,** 26-Dec-02	51.3	1.59	21.9
		Recommended Limits	53.3	1.52	20-25

The list of ingredients and the percent composition used for the tissue simulates are indicated in the table below.

Ingredient	800MHz Head	800MHz Body	1900MHz Head	1900MHz Body
Sugar	57.0	44.9	47.0	30.80
DGBE	--	--	52.8	68.91
Water	40.45	53.06	0.2	0.29
Salt	1.45	0.94	--	--
HEC	1.0	1.0	--	--
Bact.	0.1	0.1	--	--

5. System Accuracy Verification

A system accuracy verification of the DASY3 was performed using the measurement equipment listed in Section 3.1. The daily system accuracy verification occurs within center section of the SAM phantom.

A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR indicated on the dipole certification sheet. These tests were done at 900MHz and/or 1800MHz. These frequencies are within 100MHz of the mid-band frequency of the test device. This is within the allowable window given in Supplement C 01-01 *Appendix D System Verification* section item #5. The test was conducted on the same days as the measurement of the DUT. Recommended limits for maximum permittivity, minimum conductivity are shown in the table below. These come from the Federal Communication Commission, OET Bulletin 65 Supplement C 01-01. The obtained results from the system accuracy verification are displayed in the table below. The distributions of SAR compare well with those of the reference measurements (see Appendix 1). The tissue stimulant depth was verified to be 15.0cm ±0.5cm. Z-axis scans showing the SAR penetration are also included in Appendix 1. SAR values are normalized to 1W forward power delivered to the dipole.

Daily, prior to conducting tests, measurements were made with the RF sources powered off to determine the system noise level. The highest system noise was 0.001 W/kg, which is below the recommended limit.

f (MHz)	Description	SAR (W/kg), 1gram	Dielectric Parameters ε_r	Dielectric Parameters σ (S/m)	Ambient Temp (°C)	Tissue Temp (°C)
900	**Measured,** 19-Dec-02	11.8	40.9	0.98	23	22.8
	Measured, 20-Dec-02	11.8	40.9	0.98	23	22.4
	Recommended Limits	11.4	40.3	0.95	20-25	20-25
1800	**Measured,** 26-Dec-02	41.6	38.4	1.45	23	22.0
	Recommended Limits	39.3	39.6	1.37	20-25	20-25
	Measured, 31-Jan-03	39.6	39.2	1.37	22	20.6
	Recommended Limits	38.8	39.6	1.37	20-25	20-25

The following probe conversion factors were used on the E-Field probe(s) used for the system accuracy verification measurements:

Description	Serial Number	f (MHz)	Conversion Factor	Cal Cert pg #
E-Field Probe ETDV6	SN1522	900	4.5	2 of 8
		1800	3.4	2 of 8
	SN1503	1800	5.3	

6. Test Results

The test sample was operated in a test mode that allows control of the transmitter without the need to place actual phone calls. For the purposes of this test the unit is commanded to test mode and manually set to the proper channel, transmitter power level and transmit mode of operation. The phone was tested in the configurations stipulated in OET Bulletin 65 Supplement C 01-01. Motorola also followed the requirements in Supplement. C / Appendix D: SAR Measurement Procedures, section titled "*Devices Operating Next To A Person's Ear* ". These directions state "The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tile/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).“

The DASY v3.1d SAR measurement system specified in section 3.1 was utilized within the intended operations as set by the SPEAG™ setup. The phone was positioned into the measurement configurations using the positioner supplied with the DASY 3.1d SAR measurement system. The measured dielectric constant of the material used for the positioner is less than 2.9 and the loss tangent is less than 0.02 (± 30%) at 850MHz. The default settings for the “coarse” and “cube” scans were chosen and use for measurements. The grid spacing of the course scan was set to 15cm as shown in the SAR plots included in appendix 2 and 3. Please refer to the DASY manual for additional information on SAR scanning procedures and algorithms used.

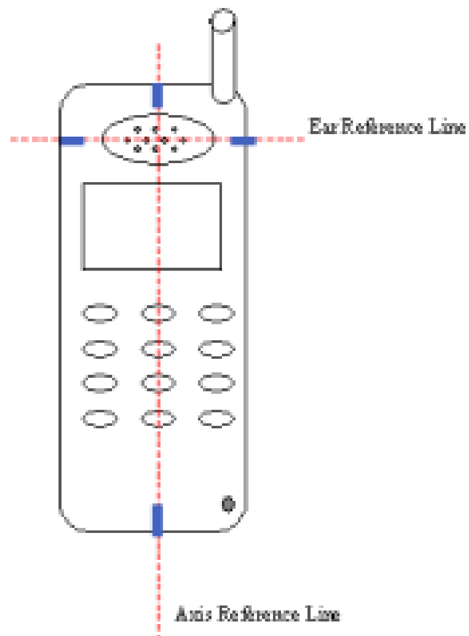
The Cellular Phone (FCC ID IHDT56CL1) has the SNN5725A as the only available battery option. This battery was used to do all of the SAR testing. The phone was placed in the SAR measurement system with a fully charged battery.

6.1 Head Adjacent Test Results

To aid in positioning repeatability, the ear reference line of the device and the axis reference line of the device have been physically added using a non-metallic marker.

- Per Figure 1, the "Ear Reference Line" is centered vertically through the center of the listening area (as defined by the speaker holes in the housing).
- The "Axis Reference Line" bisects the front surface of the device at its top and bottom edges.
- The intersection of these two lines defines the location of the "Ear Reference Point".

The lines drawn on the device extended to the outside edges, as shown in blue in the figure below, & wrap around the sides of the device.



The SAR results shown in tables 1 through 4 are maximum SAR values averaged over 1 gram of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the tissue simulate after the test, the measured drift and the extrapolated SAR. The exact method of extrapolation is New SAR = Old SAR * 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY™ measurement system can be scaled up by the measured drift to determine the SAR at the beginning of the measurement process. This is the most conservative SAR because it corresponds to the average output power at the beginning of the SAR test. This extrapolation has been done because when the DUT is operating properly it may exhibit a slump in radiated power and SAR over time. This is verified by measuring the SAR drift after the test. The test conditions indicated as bold numbers in the following table are included in Appendix 2

The SAR measurements were performed using the SAM phantoms listed in section 3.1. Since same phantoms and tissue simulate are used for the system accuracy verification as the device SAR measurements, the Z-axis scans included in within Appendix 1 are applicable for verification of tissue simulate depth to be 15.0cm ±0.5cm. All other test conditions measured lower SAR values than those included in Appendix 2. Note that 800MHz digital mode SAR measurements were performed in accordance with Supplement C.

The following probe conversion factors were used on the E-Field probe(s) used for the head adjacent measurements:

Description	Serial Numbe r	f (MHz)	Conversion Factor	Cal Cert pg #
E-Field Probe ETDV6	SN1522	900	4.6	2 of 2
		1800	3.4	2 of 8
	SN1503	1800	5.3	

f (MHz)	Description	Conducted Output Power (dBm)	Cheek / Touch Position							
			Left Head				Right Head			
			Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
Digital 800MHz	Channel 1013	24.94	0.937	-0.10	0.96	22.3				
	Channel 384	24.96	**1.00**	**0.08**	**1.00**	**22.4**	0.756	-0.02	0.76	21/8
	Channel 777	24.92	0.898	0.11	0.90	22.4				
Digital 1900MHz	Channel 25	24.69					**1.16**	**-0.29**	**1.24**	**20.4**
	Channel 600	24.66	0.701	0.43	0.70	21.8	0.819	-0.30	0.88	20.4
	Channel 1175	24.68					1.04	-0.03	1.05	20.4

Table 1: SAR measurement results for the portable cellular telephone FCC ID IHDT56CL1 at highest possible output power. Measured against the left head in the Cheek/Touch Position.

f (MHz)	Description	Conducted Output Power (dBm)	15° Tilt Position							
			Left Head				Right Head			
			Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
Digital 800MHz	Channel 1013	24.94	1.05	-0.06	1.06	22.4	0.891	0.13	0.89	21.8
	Channel 384	24.96	**1.09**	**0.08**	**1.09**	**22.4**	0.811	-0.09	0.83	21.8
	Channel 777	24.92	0.997	0.09	1.00	22.3	0.776	0.07	0.78	21.7
Digital 1900MHz	Channel 25	24.69	**1.51**	**0.02**	**1.51**	**21.0**	1.35	0.63	1.35	20.4
	Channel 600	24.66	0.831	0.41	0.83	21.0	0.879	0.54	0.88	20.4
	Channel 1175	24.68	1.18	0.41	1.18	21.0	0.901	0.42	0.90	20.3

Table 2: SAR measurement results for the portable cellular telephone FCC ID IHDT56CL1 at highest possible output power. Measured against the left head in the 15° Tilt Position.

6.2 Body-Worn Test Results

The SAR results shown in table 5 are the maximum SAR values averaged over 1 gram of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the tissue simulate after the test, the measured drift and the extrapolated SAR. The exact method of extrapolation is New SAR = Old SAR * 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY™ measurement system can be scaled up by the measured drift to determine the SAR at the beginning of the measurement process. This is the most conservative SAR because it corresponds to the average output power at the beginning of the SAR test. This extrapolation has been done because when the DUT is operating properly it may exhibit a slump in radiated power and SAR over time. This is verified by measuring the SAR drift after the test. The test conditions indicated as bold numbers in the following table are included in Appendix 3. Note that 800MHz digital mode SAR measurements were performed in accordance with OET Bulletin 65 Supplement C 01-01. All other test conditions measured lower SAR values than those included in Appendix 3.

A “flat” phantom was for the body-worn tests. This “flat” phantom is made out of 1” thick natural High Density Polyethylene with a thickness at the bottom equal to 2.0mm. It measures 52.7cm(long) x 26.7cm(wide) x 21.2cm(tall). The measured dielectric constant of the material used is less than 2.3 and the loss tangent is less than 0.0046 all the way up to 2.184GHz.

The tissue stimulant depth was verified to be 15.0cm ±0.5cm. The same device holder described in section 6 was used for positioning the phone. The functional accessories were divided into two categories, the ones with metal components and the ones with non-metal components. For non-metallic component accessories’, testing was performed on the accessory that displayed the closest proximity to the flat phantom. Each metallic component accessory, if any, was checked for uniqueness of metal component so that each is tested with the device. If multiple accessories shared an identical metal component, only the accessory that dictates the closest spacing to the body was tested. The cellular phone was tested with a headset connected to the device for all body-worn SAR measurements.

There are no Body-Worn Accessories available for this phone hence the device was tested per the supplement C testing guidelines for devices that do not have body worn accessories. The back & front parts of the phone were placed 1 inch away from a flat phantom per the supplement C standard guidelines to perform SAR measurement.

The following probe conversion factors were used on the E-Field probe(s) used for the body worn measurements:

Description	Serial Number	f (MHz)	Conversion Factor	Cal Cert pg #
E-Field Probe ETDV6	SN1522	835	4.40	2 of 2
		1900	3.10	2 of 2

f (MHz)	Description	Conducted Output Power (dBm)	Body Worn							
			1” Separation from Front of Phone				1” Separation from Back of Phone			
			Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
Digital 800MHz	Channel 1013	24.94								
	Channel 384	24.96	**0.249**	**-0.05**	**0.25**	**22.3**	**0.219**	**0.04**	**0.22**	**22.3**
	Channel 777	24.92								
Digital 1900MHz	Channel 25	24.69								
	Channel 600	24.66	**0.103**	**-0.10**	**0.11**	**22.1**	**0.14**	**-0.07**	**0.14**	**21.9**
	Channel 1175	24.68								

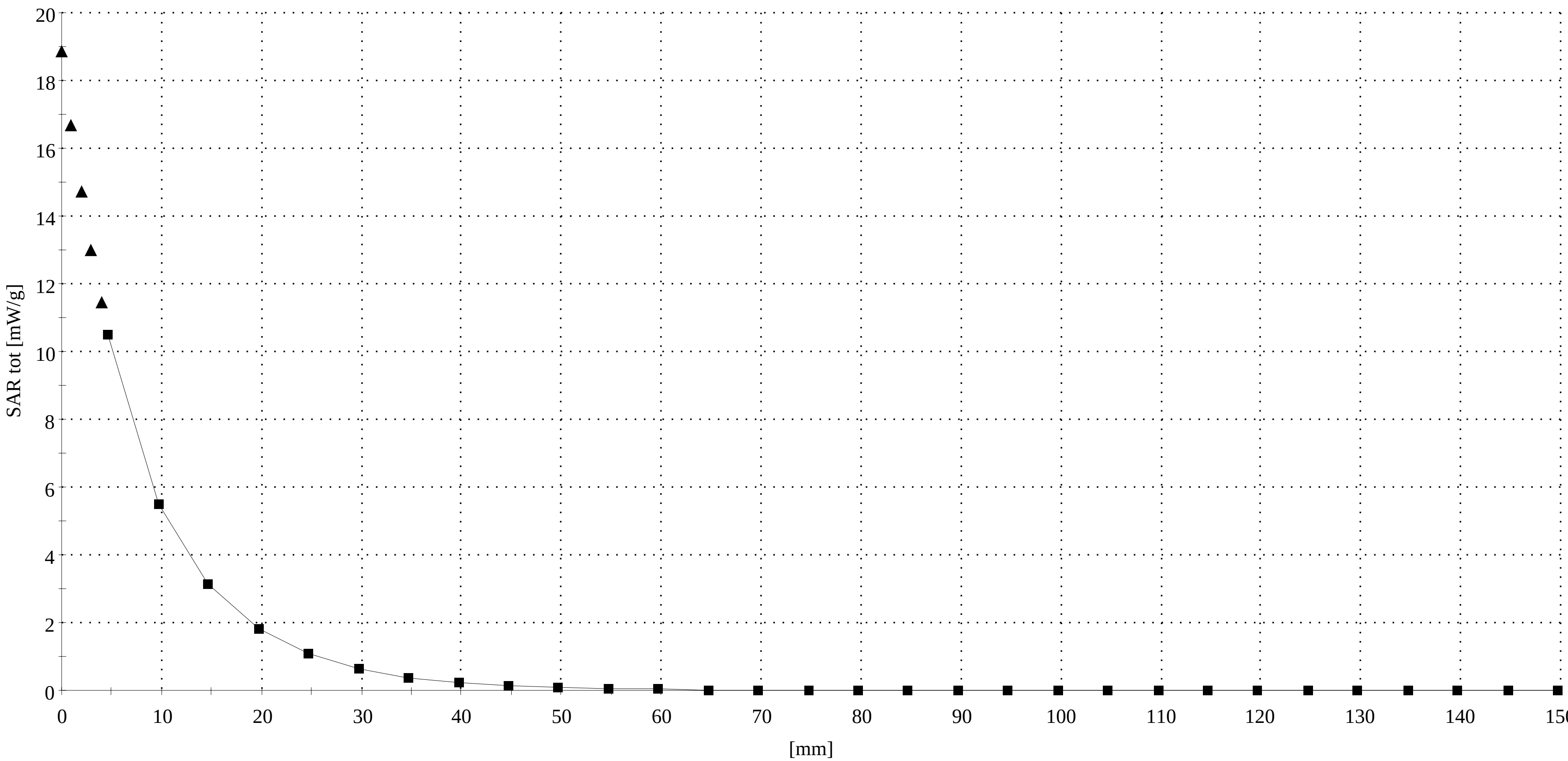
Table 3: SAR measurement results for the portable cellular telephone FCC ID IHDT56CL1 at highest possible output power. Measured against the body.

Appendix 1

SAR distribution comparison for the system accuracy verification

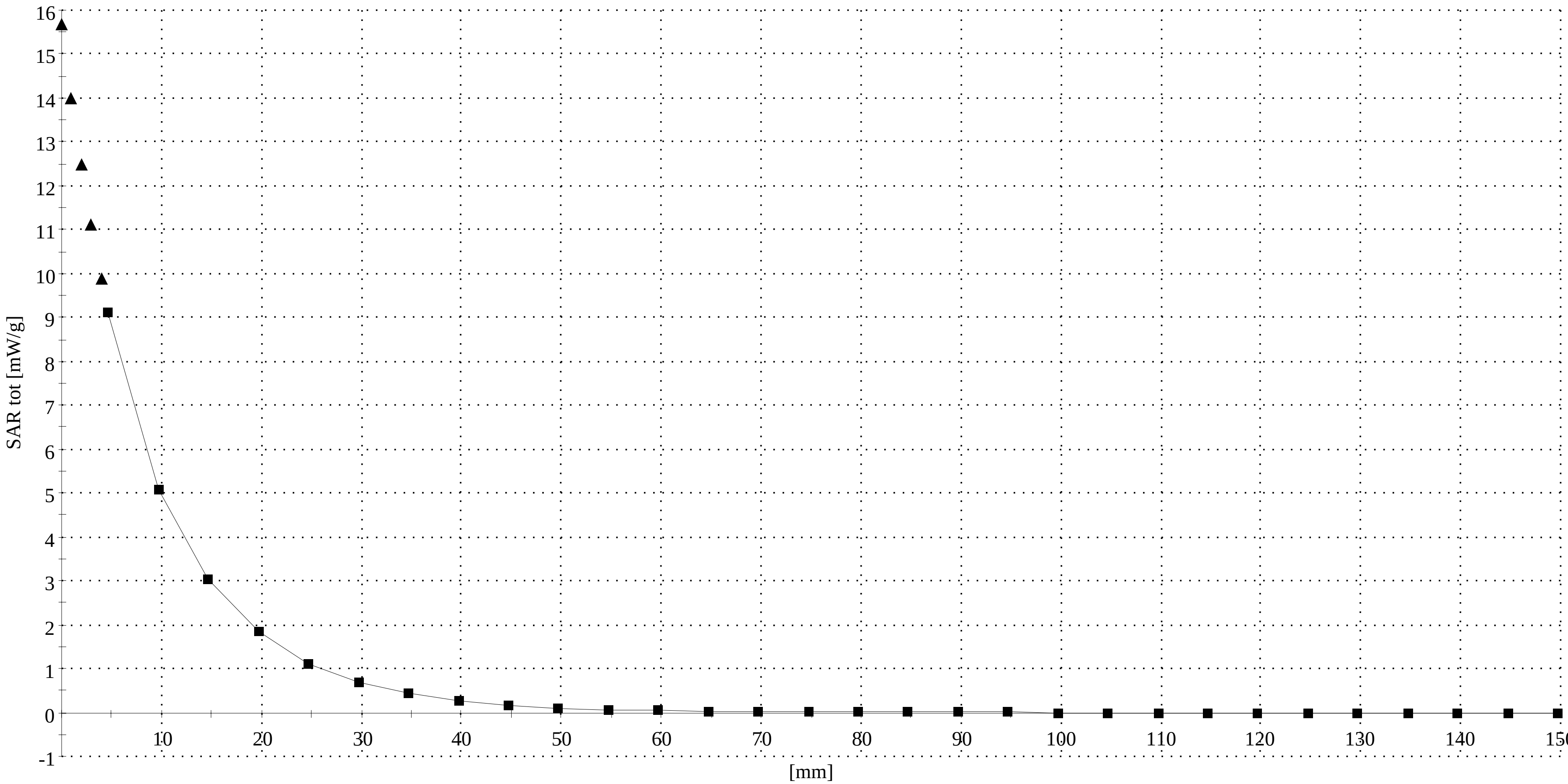
Dipole 1800 MHz

1800 MHz Dipole Validation / Dipole Sn# 250tr
Forward Power = 255 Reflected Power = -22.53
Room Temp at time of measurement = 22 Simulant Temp at time of measurement = 20.6
R1: TP-1154 GLYCOL (rev. 3) Phantom; Section; Position: ; Frequency: 1800 MHz
Probe: ET3DV6 - SN1503 - Validation.2; ConvF(5.30,5.30,5.30); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.37$ mho/m $\varepsilon_r = 39.2$ $\rho = 1.00$ g/cm^3
: , , ()
Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0
Penetration depth: 8.1 (7.8, 8.8) [mm]



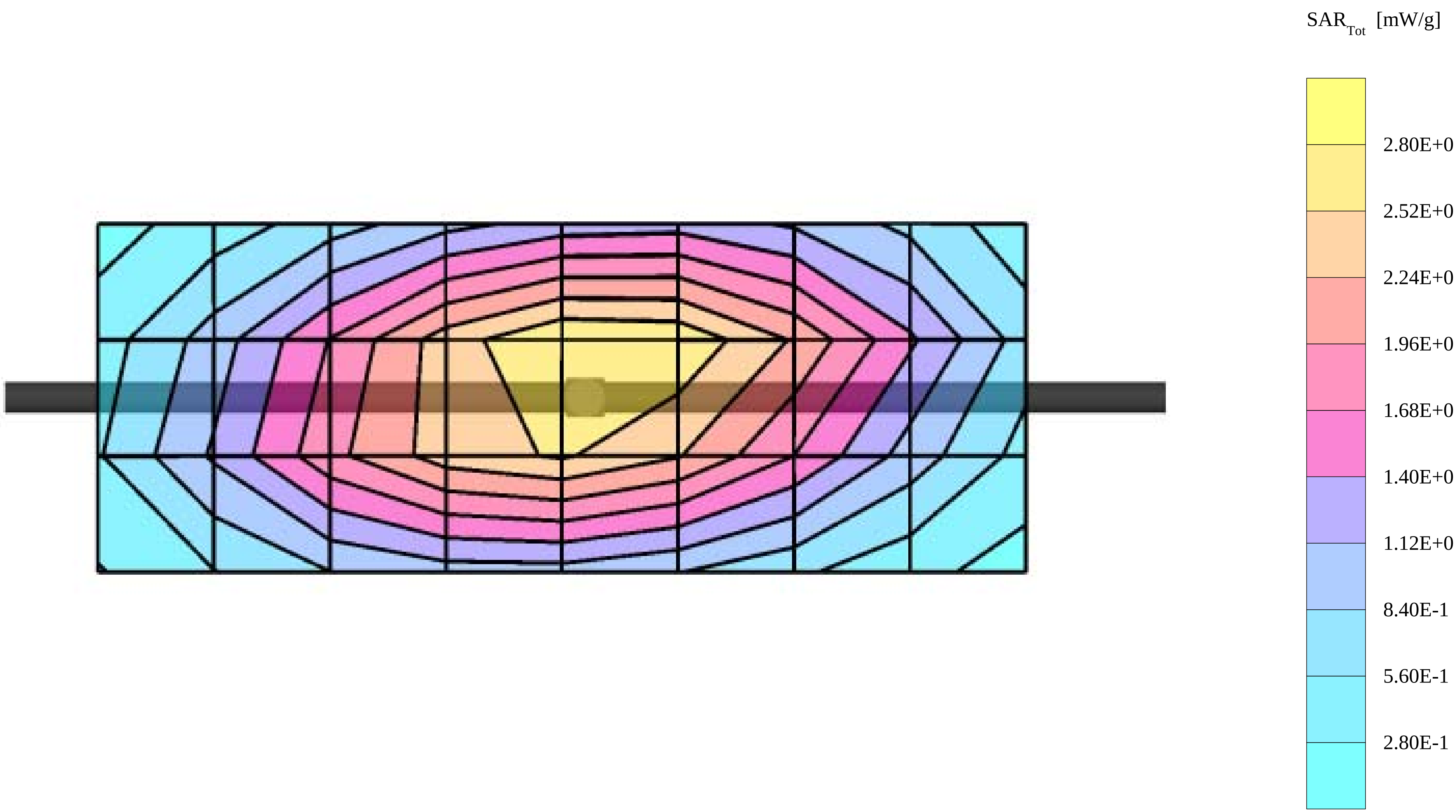
Dipole 1800 MHz

1800 MHz Dipole Validation / Dipole Sn# 259tr
Forward Power =250   Reflected Power = -24
Room Temp at time of measurement = 23   Simulant Temp at time of measurement = 22
R3 Gycol TP-1157 (rev. 4) 26Apr02;
Probe: ET3DV6R - SN1522 - Validation2; ConvF(3.40,3.40,3.40); Crest factor: 1.0; 1800 MHz VALIDATION: σ = 1.45 mho/m ε_r = 38.4 ρ = 1.00 g/cm³
: , , ()
Penetration depth: 9.0 (8.6, 9.8) [mm]



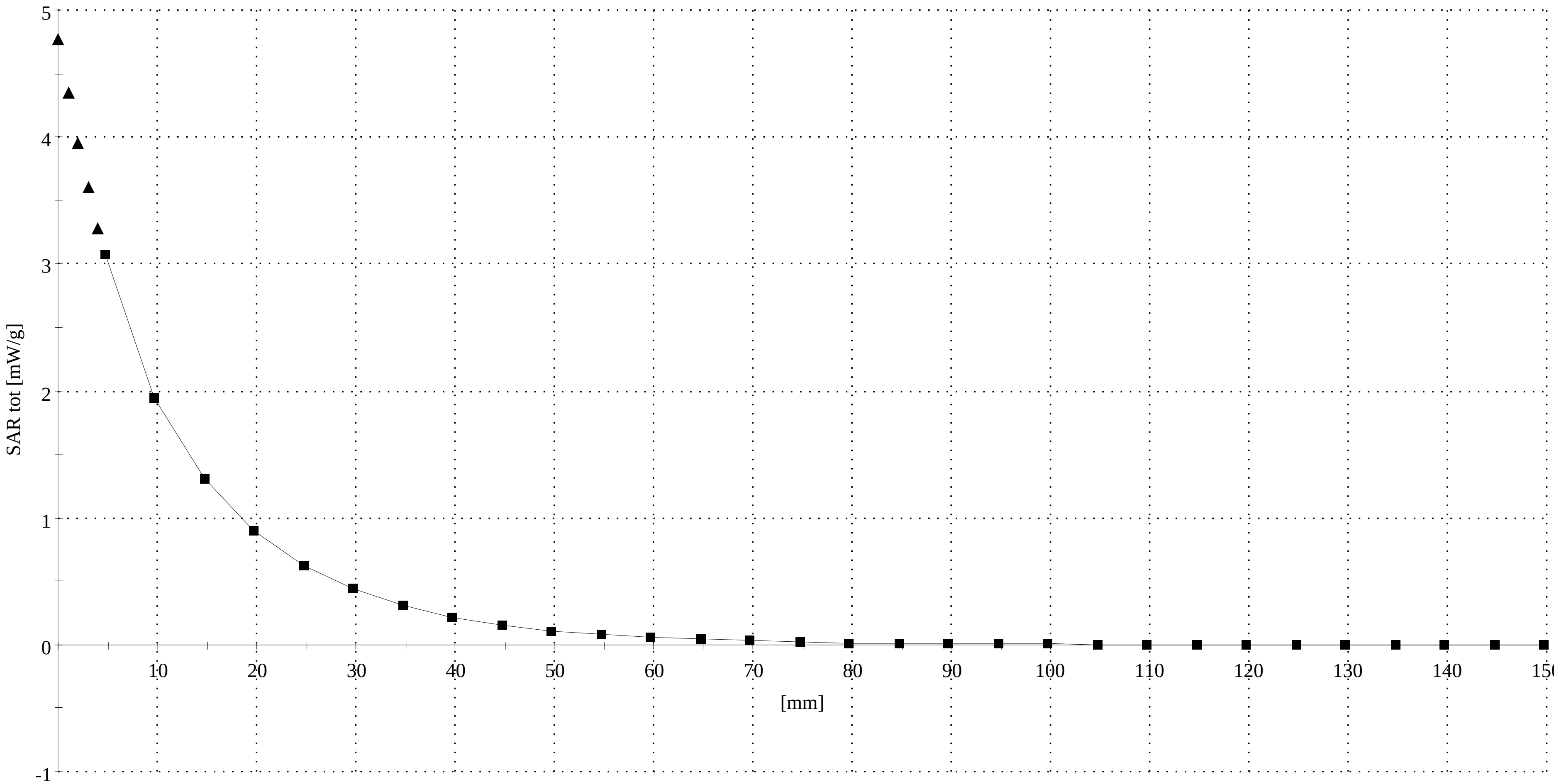
Dipole 900 MHz

900MHz Dipole Validation / Dipole Sn# 096
Forward Power =250 Reflected Power = -22.38
Room Temp at time of measurement =23 Simulant Temp at time of measurement =22.4
R3 Suger TP-1155 SAM (rev. 4) 26Apr02; Flat
Probe: ET3DV6R - SN1522 - Validation2; ConvF(4.50,4.50,4.50); Crest factor: 1.0; 900 MHz VALIDATION: σ = 0.98 mho/m ε_r = 40.9 ρ = 1.00 g/cm^3
Cubes (2): Peak: 4.67 mW/g ± 0.14 dB, SAR (1g): 2.95 mW/g ± 0.14 dB, SAR (10g): 1.87 mW/g ± 0.14 dB, (Worst-case extrapolation)
Penetration depth: 11.6 (10.8, 12.8) [mm]
Powerdrift: 0.02 dB



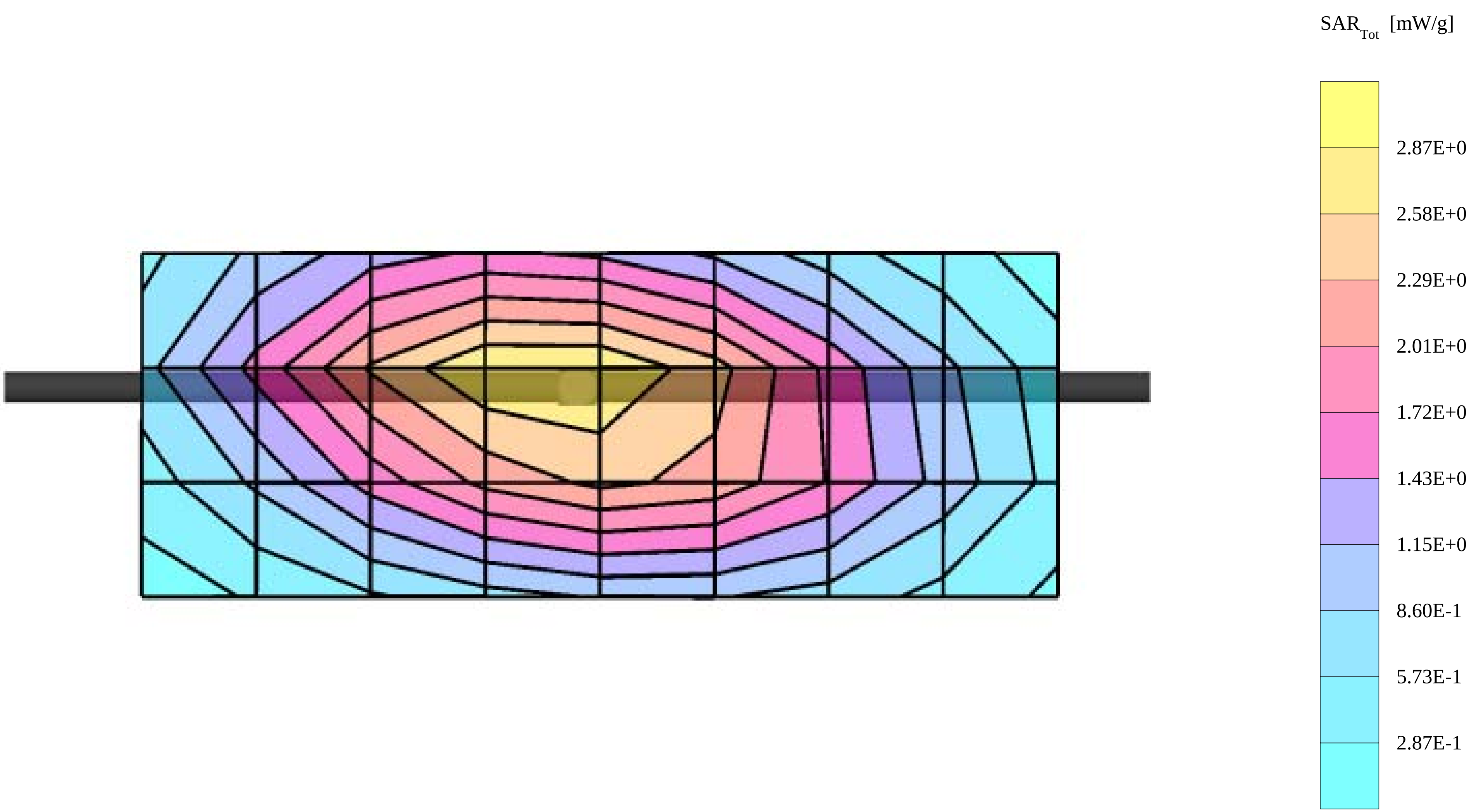
Dipole 900 MHz

900MHz Dipole Validation / Dipole Sn# 096
Forward Power =250 Reflected Power = -22.38
Room Temp at time of measurement =23 Simulant Temp at time of measurement =22.4
R3 Suger TP-1155 SAM (rev. 4) 26Apr02;
Probe: ET3DV6R - SN1522 - Validation2; ConvF(4.50,4.50,4.50); Crest factor: 1.0; 900 MHz VALIDATION: σ = 0.98 mho/m ε_r = 40.9 ρ = 1.00 g/cm³
: , , ()
Penetration depth: 11.6 (10.8, 12.8) [mm]



Dipole 900 MHz

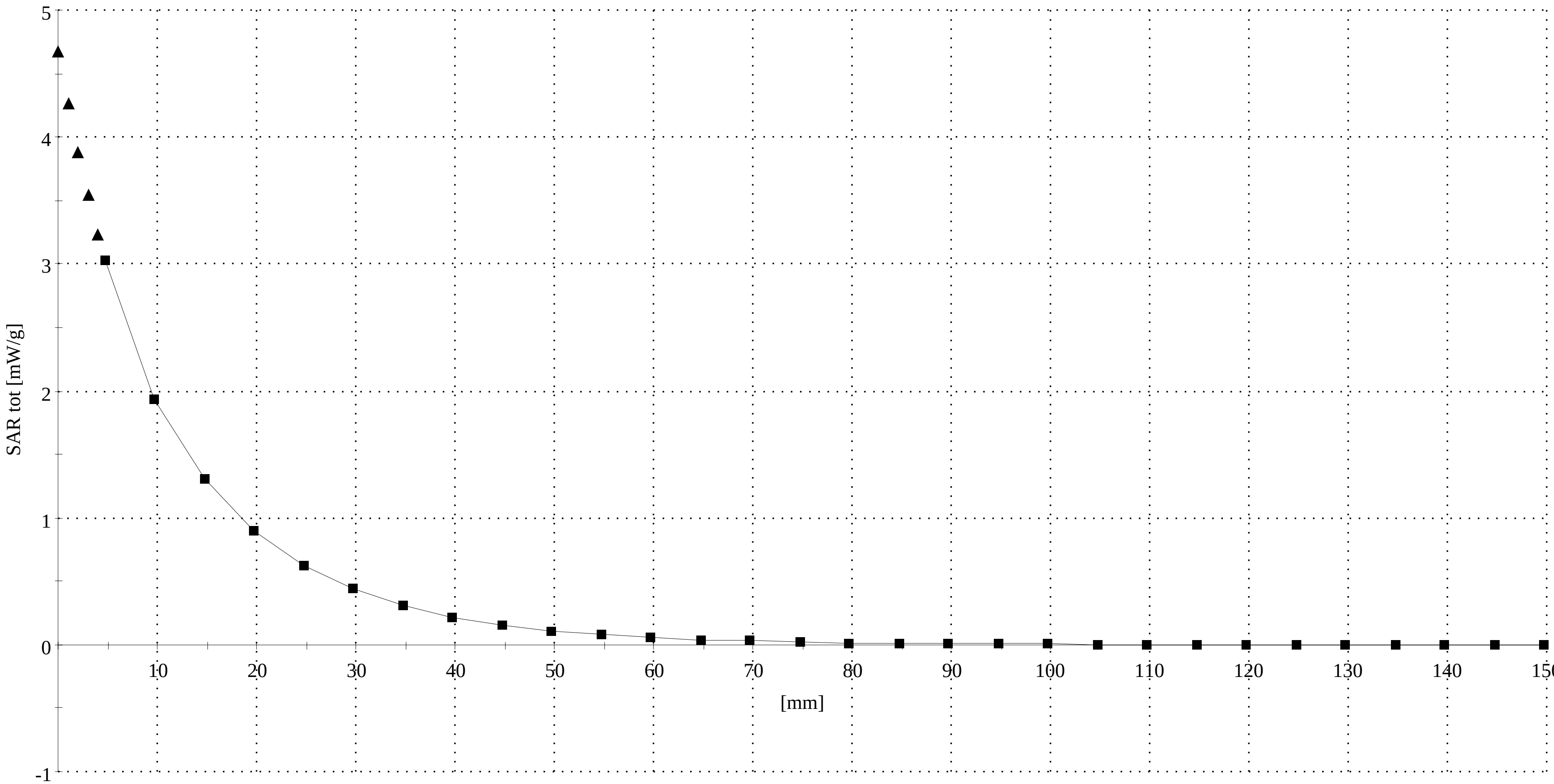
900 MHz Dipole Validation / Dipole Sn# 096
Forward Power = 250mW Reflected Power =-22.38dB
Room Temp at time of measurement = 23 Simulant Temp at time of measurement = 22.8
R3 Suger TP-1155 SAM (rev. 4) 26Apr02; Flat
Probe: ET3DV6R - SN1522 - Validation2; ConvF(4.50,4.50,4.50); Crest factor: 1.0; 900 MHz VALIDATION: σ = 0.98 mho/m ε_r = 40.9 ρ = 1.00 g/cm^3
Cubes (2): Peak: 4.66 mW/g ± 0.10 dB, SAR (1g): 2.95 mW/g ± 0.11 dB, SAR (10g): 1.87 mW/g ± 0.11 dB, (Worst-case extrapolation)
Penetration depth: 11.7 (10.8, 12.9) [mm]
Powerdrift: 0.07 dB



12/19/02

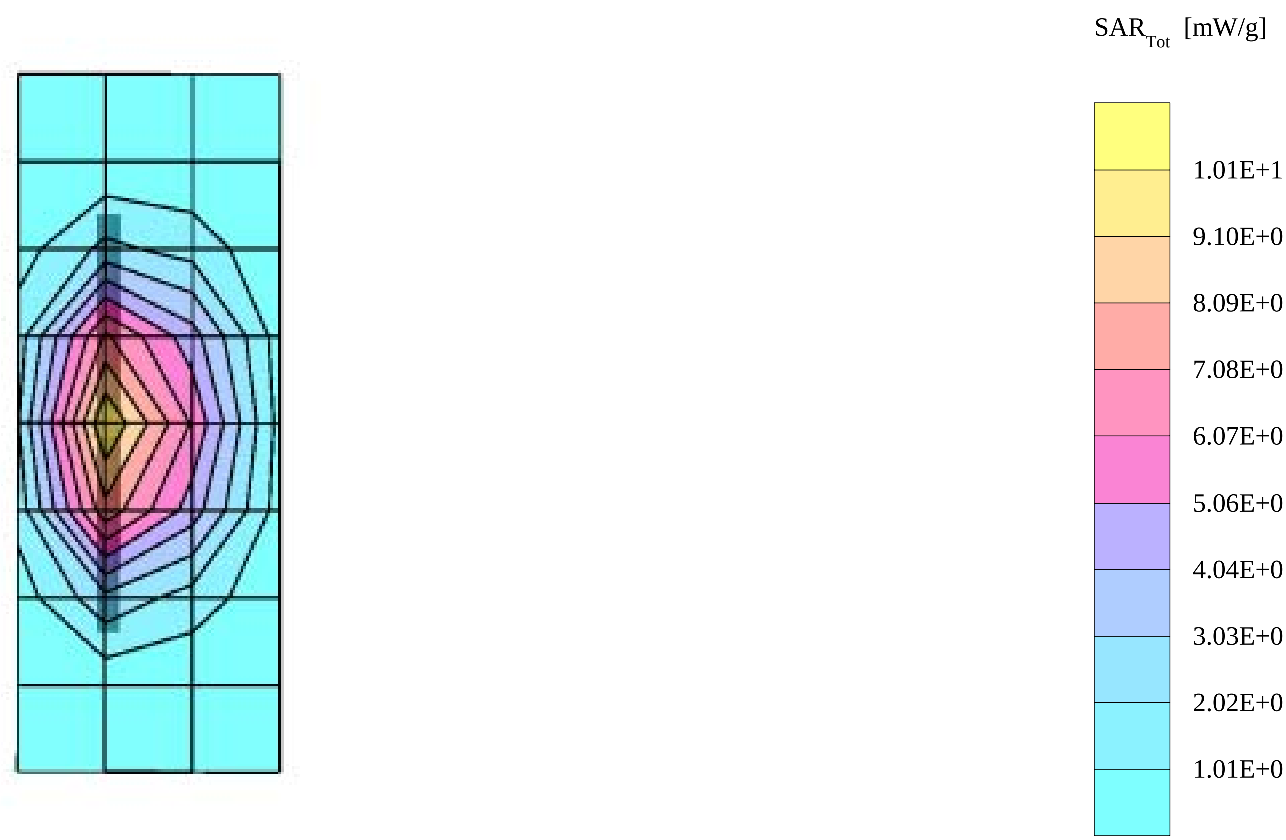
Dipole 900 MHz

900 MHz Dipole Validation / Dipole Sn# 096
Forward Power = 250mW Reflected Power =-22.38dB
Room Temp at time of measurement = 23 Simulant Temp at time of measurement = 22.8
R3 Suger TP-1155 SAM (rev. 4) 26Apr02;
Probe: ET3DV6R - SN1522 - Validation2; ConvF(4.50,4.50,4.50); Crest factor: 1.0; 900 MHz VALIDATION: σ = 0.98 mho/m ε_r = 40.9 ρ = 1.00 g/cm³
: , , ()
Penetration depth: 11.8 (11.0, 12.9) [mm]



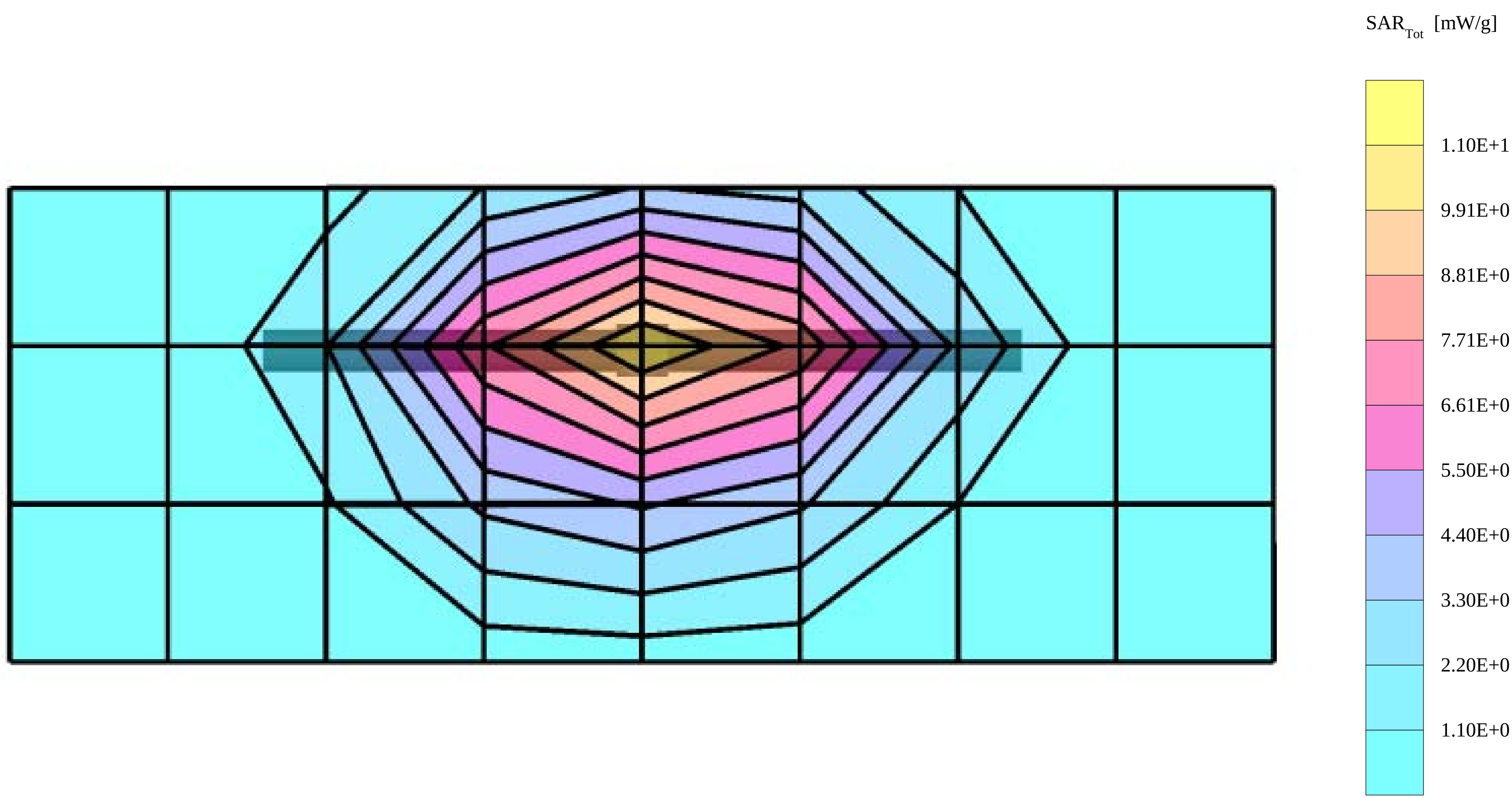
Dipole 1800 MHz

1800 MHz Dipole Validation / Dipole Sn# 250tr
Forward Power = 254 Reflected Power = -22.18
Room Temp at time of measurement = 22 Simulant Temp at time of measurement = 20.7
R1 Amy Twin Phantom Rev.3 ; section 1
Probe: ET3DV6 - SN1503 - Validation.2; ConvF(5.30,5.30,5.30); Crest factor: 1.0; 1800 MHz VALIDATION: σ = 1.45 mho/m ε_r = 38.2 ρ = 1.00 g/cm^3
Cubes (2): Peak: 19.7 mW/g ± 0.03 dB, SAR (1g): 10.8 mW/g ± 0.04 dB, SAR (10g): 5.72 mW/g ± 0.05 dB, (Worst-case extrapolation)
Penetration depth: 8.5 (8.2, 9.3) [mm]
Powerdrift: 0.02 dB



Dipole 1800 MHz

1800 MHz Dipole Validation / Dipole Sn# 259tr
Forward Power =250 Reflected Power = -24
Room Temp at time of measurement = 23 Simulant Temp at time of measurement = 22
R3 Gycol TP-1157 (rev. 4) 26Apr02; Flat
Probe: ET3DV6R - SN1522 - Validation2; ConvF(3.40,3.40,3.40); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.45$ mho/m $\varepsilon_r = 38.4$ $\rho = 1.00$ g/cm^3
Cubes (2): Peak: 19.1 mW/g ± 0.10 dB, SAR (1g): 10.4 mW/g ± 0.12 dB, SAR (10g): 5.54 mW/g ± 0.14 dB, (Worst-case extrapolation)
Penetration depth: 8.4 (8.0, 9.3) [mm]
Powerdrift: 0.02 dB

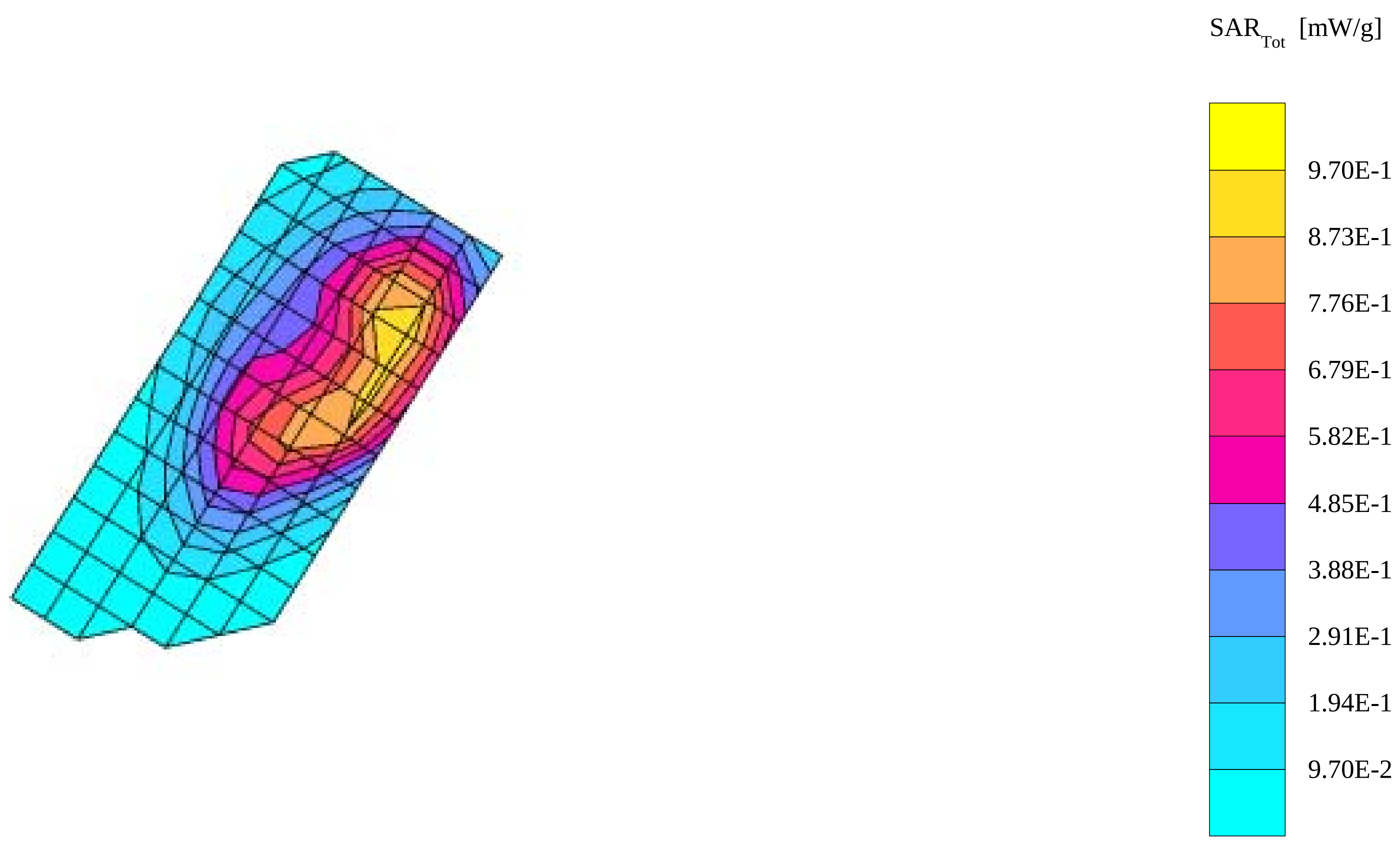


Appendix 2

SAR distribution plots for Phantom Head Adjacent Use

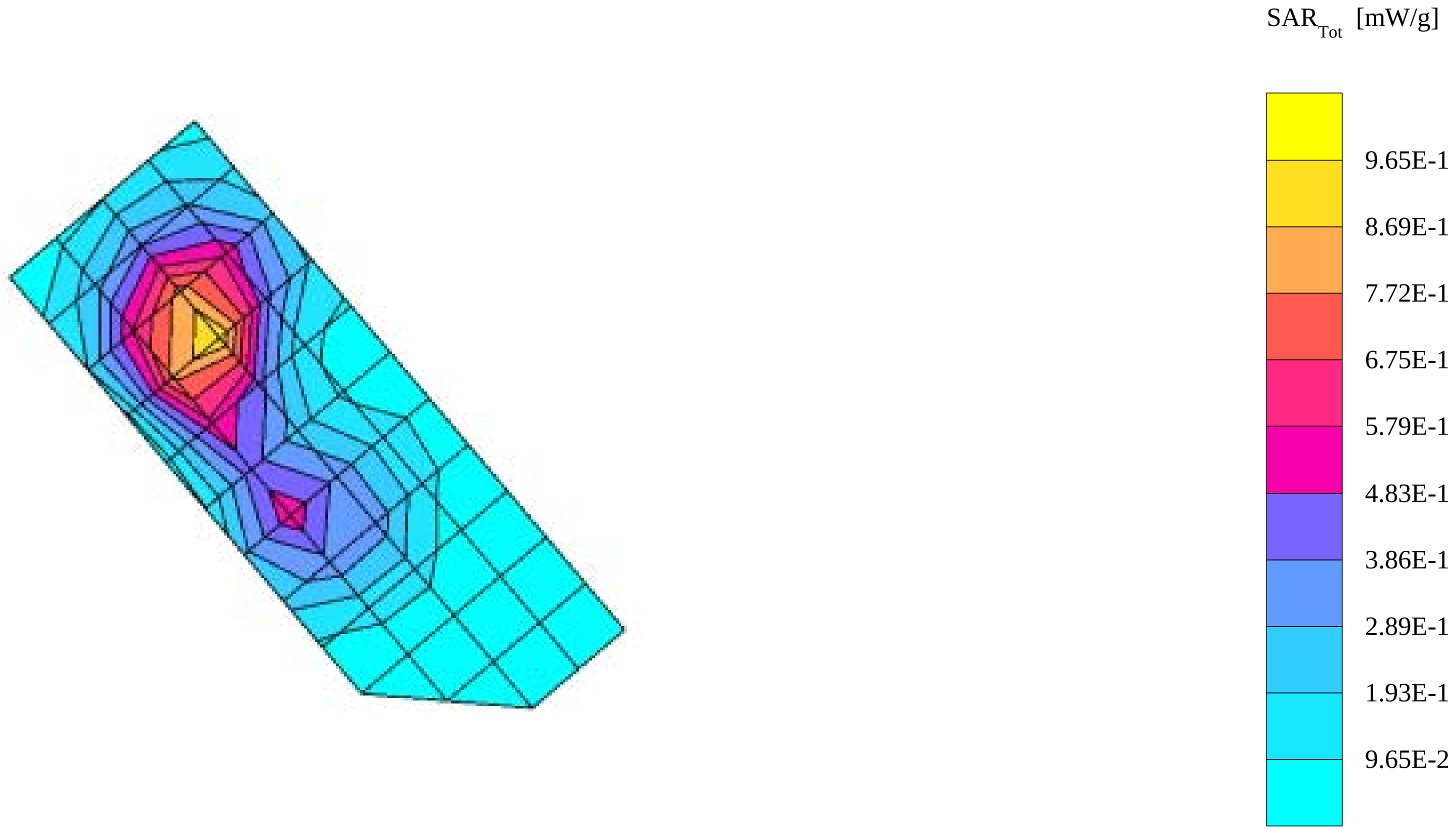
s/n: 770472BC

Ch# 384 / Pwr Step: Always Up / Type of Modulation: CDMA 800 / Battery Model #: SNN5725A
DEVICE POSITION (cheek or rotated): Cheek
R3 Suger TP-1155 SAM (rev. 4) 26Apr02 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 837 MHz
Probe: ET3DV6R - SN1522 - IEEE Head; ConvF(4.60,4.60,4.60); Crest factor: 1.0; 835 MHz Head & Body: σ = 0.92 mho/m ε_r = 41.7 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 1.00 mW/g, SAR (10g): 0.615 mW/g, (Worst-case extrapolation)
Coarse: Dx = 10.0, Dy = 10.0, Dz = 10.0
Penetration depth: 11.3 (10.5, 12.4) [mm]
Powerdrift: 0.08 dB



s/n: 770472C0

Ch#25 / Pwr Step: Always Up / Type of Modulation: CDMA 1900 / Battery Model #: SNN5725A
DEVICE POSITION (cheek or rotated): Cheek
R1: TP-1154 GLYCOL (rev. 3) Phantom; R2 Lisa Right Head Section; Position: (90°,180°); Frequency: 1851 MHz
Probe: ET3DV6 - SN1503 - IEEE Head; ConvF(5.30,5.30,5.30); Crest factor: 1.0; 1880 MHz Head & Body: σ = 1.45 mho/m ε_r = 38.2 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 1.16 mW/g, SAR (10g): 0.604 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0
Penetration depth: 9.9 (9.5, 10.5) [mm]
Powerdrift: -0.29 dB



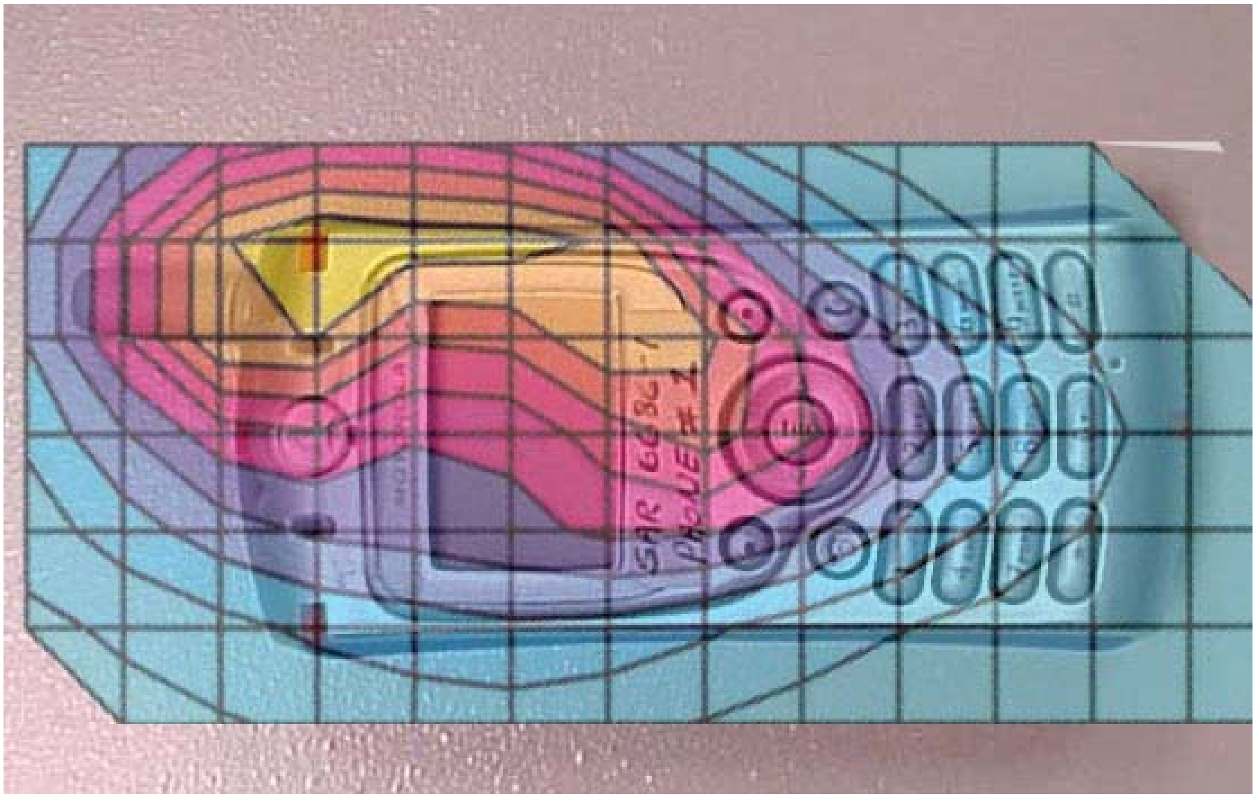


Figure 1.Typical 800MHz Contour Overlaid on Phone (Cheek Touch)

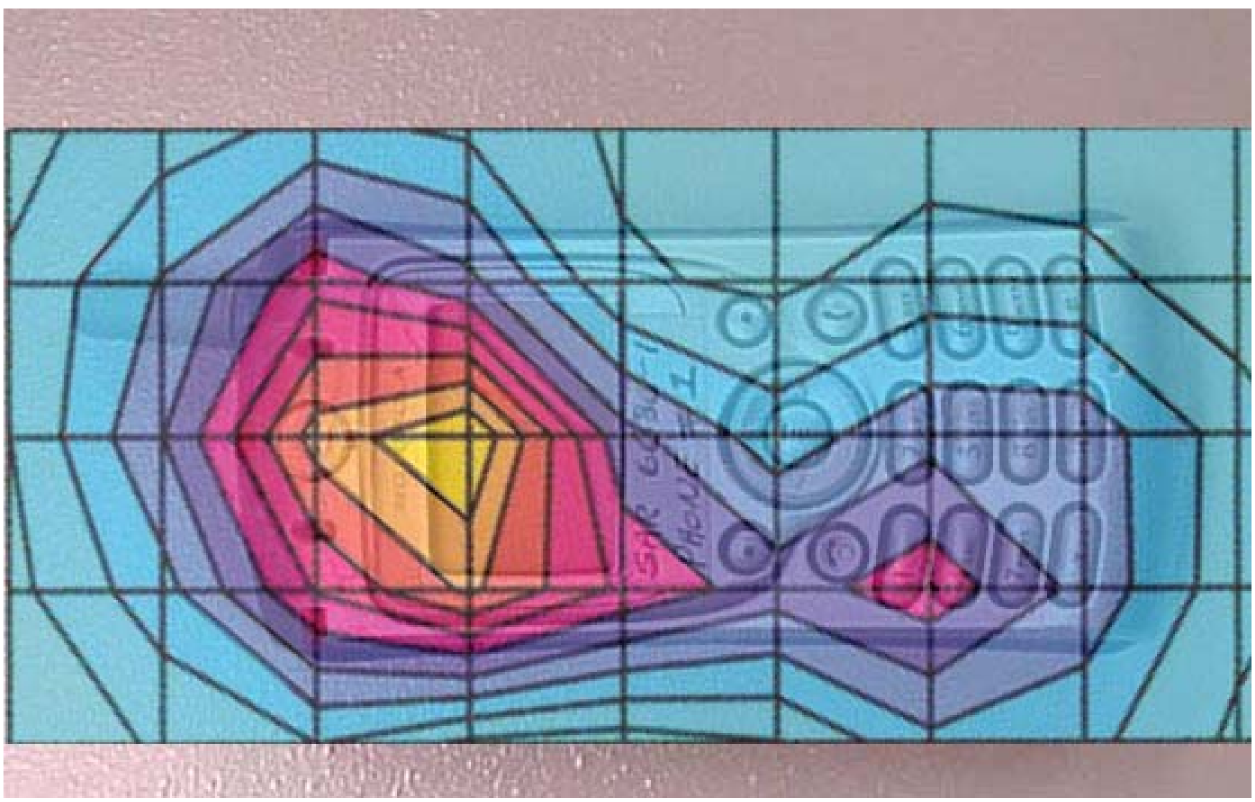


Figure 2.Typical 1900MHz Contour Overlaid on Phone (Cheek Touch)

s/n:770472BC

Ch# 384 / Pwr Step: Always Up / Type of Modulation: CDMA 800 / Battery Model #: SNN5725A

DEVICE POSITION (cheek or rotated): Tilted

R3 Suger TP-1155 SAM (rev. 4) 26Apr02 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 837 MHz

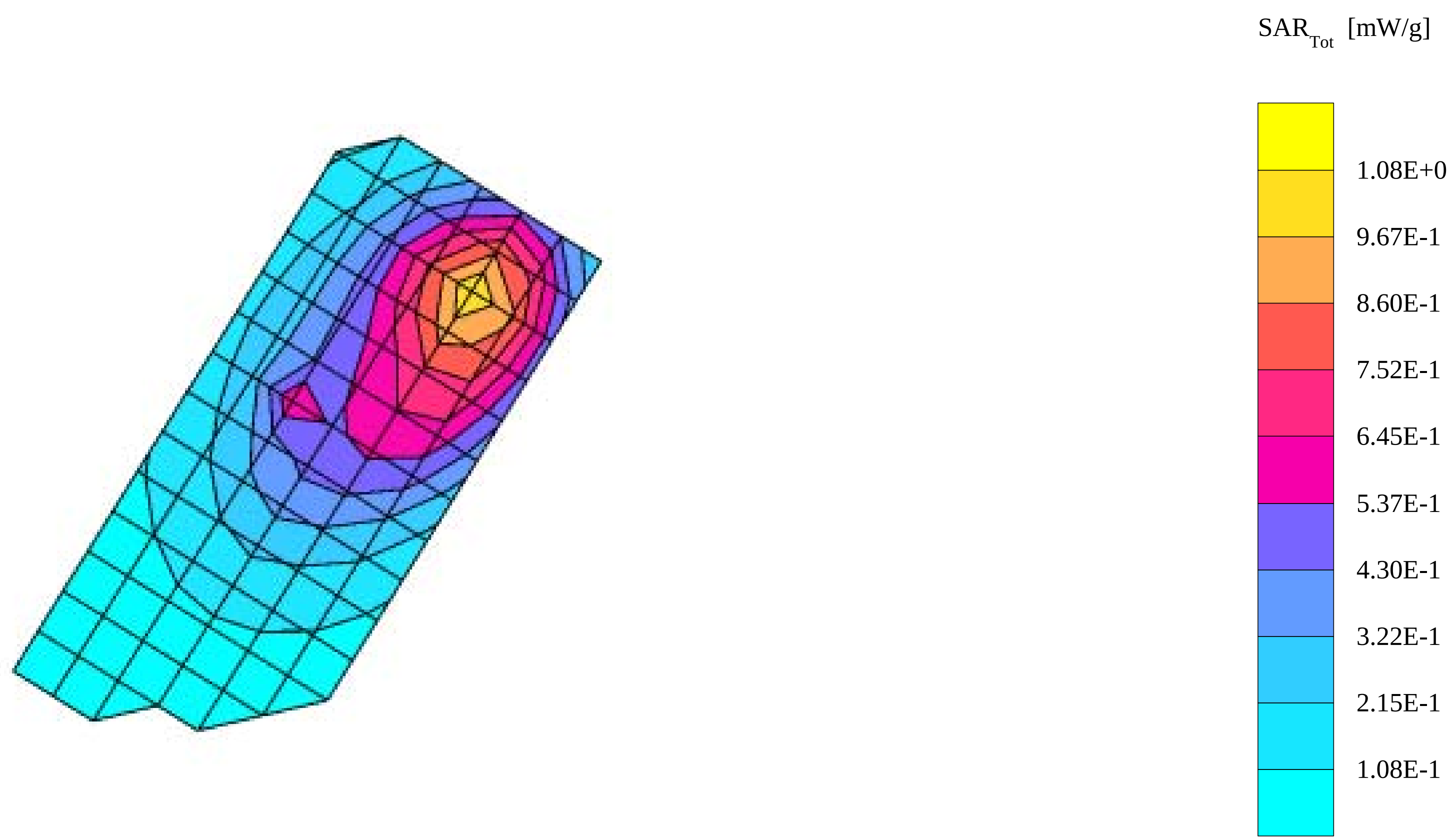
Probe: ET3DV6R - SN1522 - IEEE Head; ConvF(4.60,4.60,4.60); Crest factor: 1.0; 835 MHz Head & Body: σ = 0.92 mho/m ε_r = 41.7 ρ = 1.00 g/cm^3

Cube 7x7x7: SAR (1g): 1.09 mW/g, SAR (10g): 0.656 mW/g, (Worst-case extrapolation)

Coarse: Dx = 10.0, Dy = 10.0, Dz = 10.0

Penetration depth: 10.8 (10.1, 11.9) [mm]

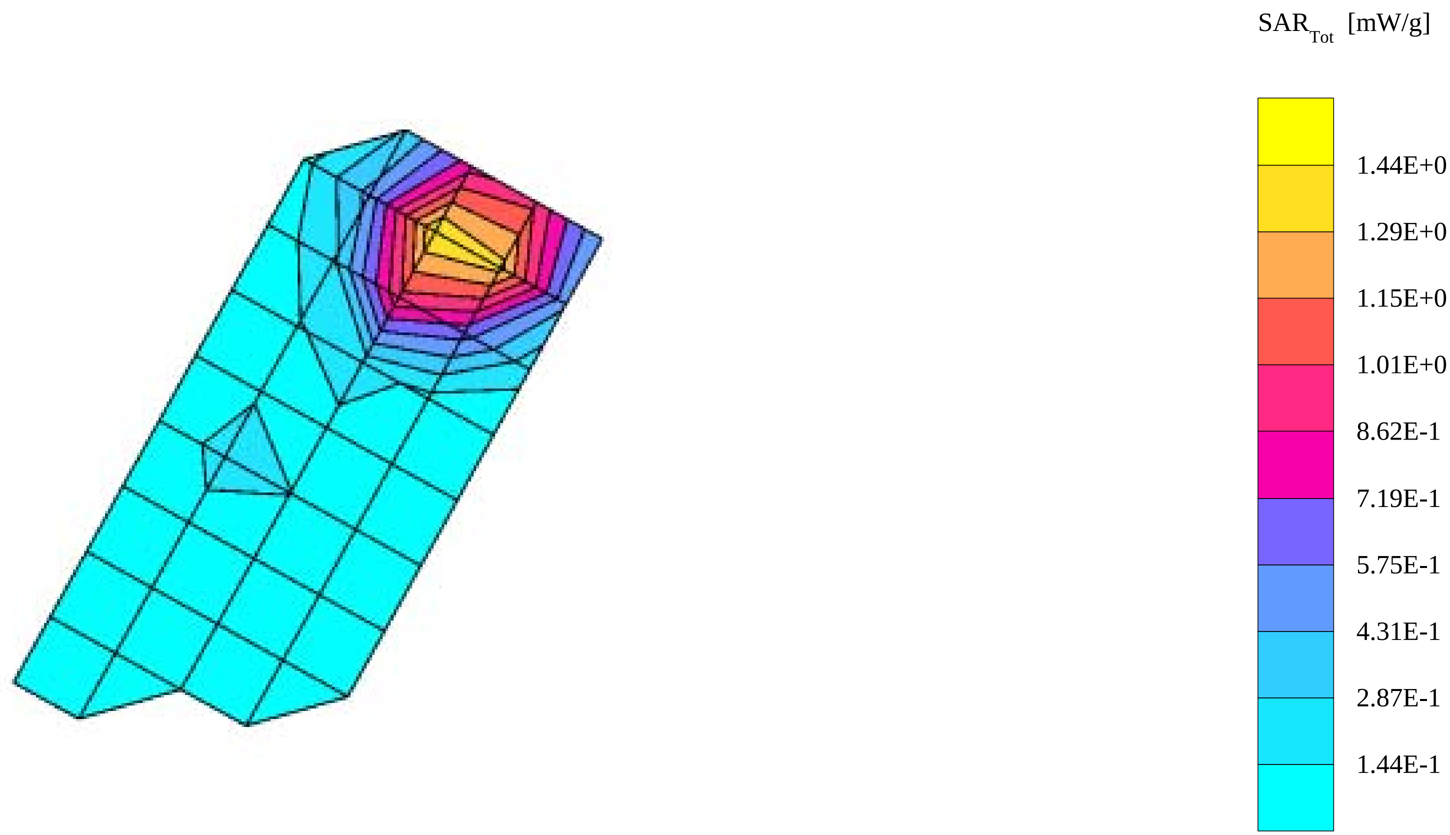
Powerdrift: 0.08 dB



12/26/02

s/n: 770472BC

Ch# 25/ Pwr Step:0 / Type of Modulation: cdma 1900 /Battery Model #: snn5725a
DEVICE POSITION (cheek or rotated):rotated
R3 Gycol TP-1157 (rev. 4) 26Apr02 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 1880 MHz
Probe: ET3DV6R - SN1522 - IEEE Head; ConvF(3.40,3.40,3.40); Crest factor: 1.0; 1880 MHz Head & Body: σ = 1.45 mho/m ε_r = 38.2 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 1.51 mW/g, SAR (10g): 0.849 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0
Penetration depth: 9.9 (9.4, 10.8) [mm]
Powerdrift: 0.02 dB



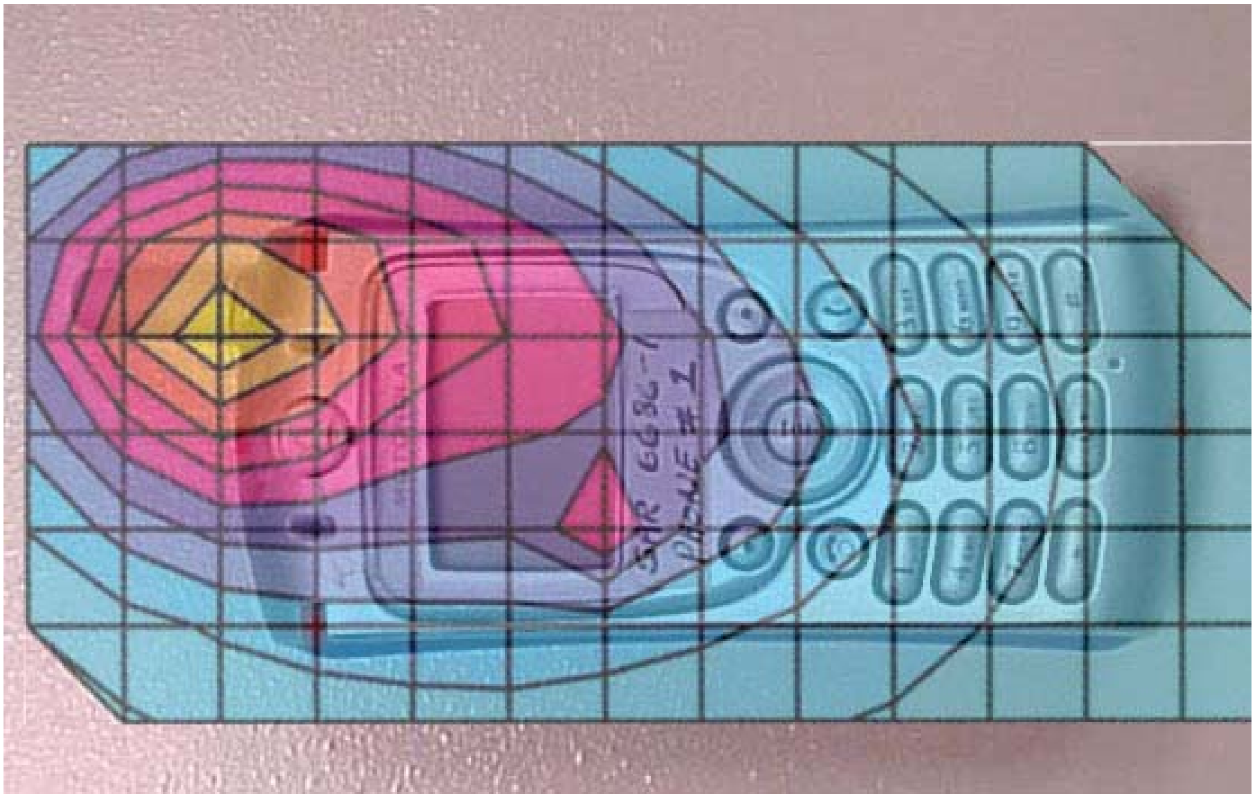


Figure 3.Typical 800MHz Contour Overlaid on Phone (15 ˚ Tilt)

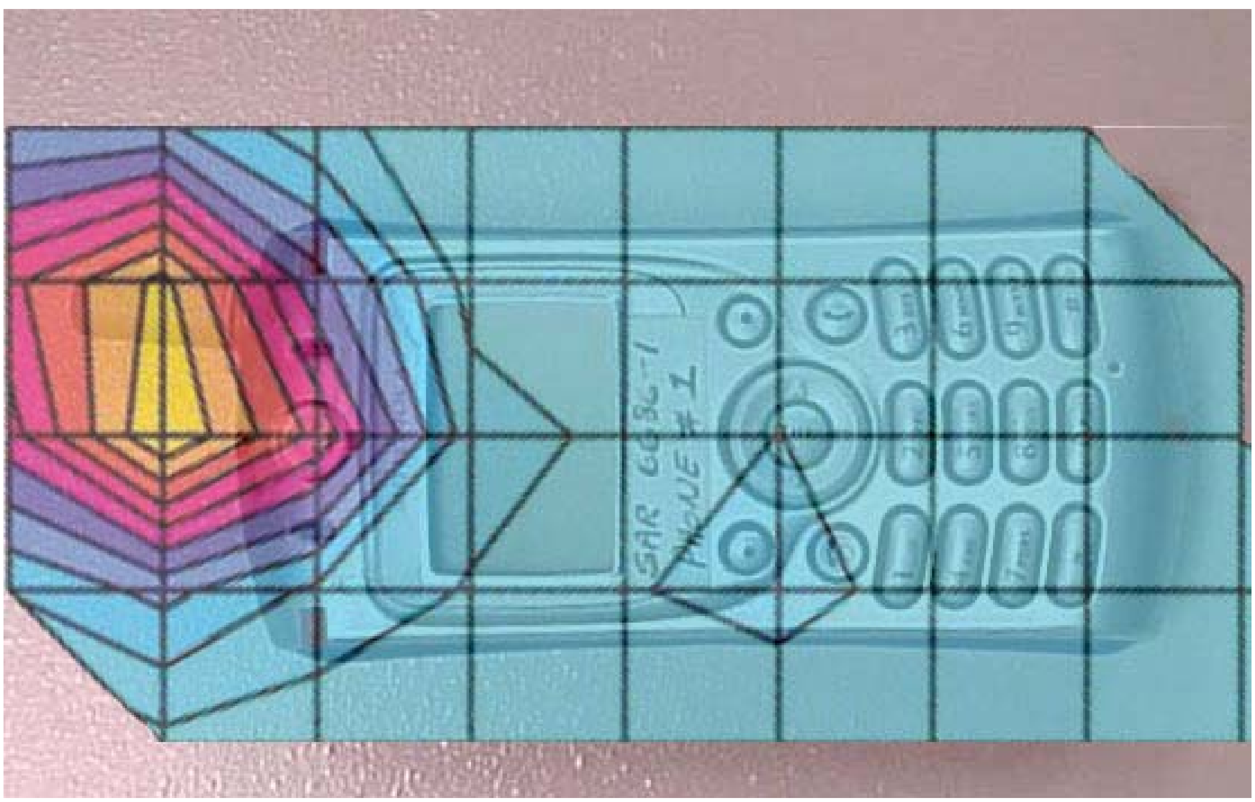


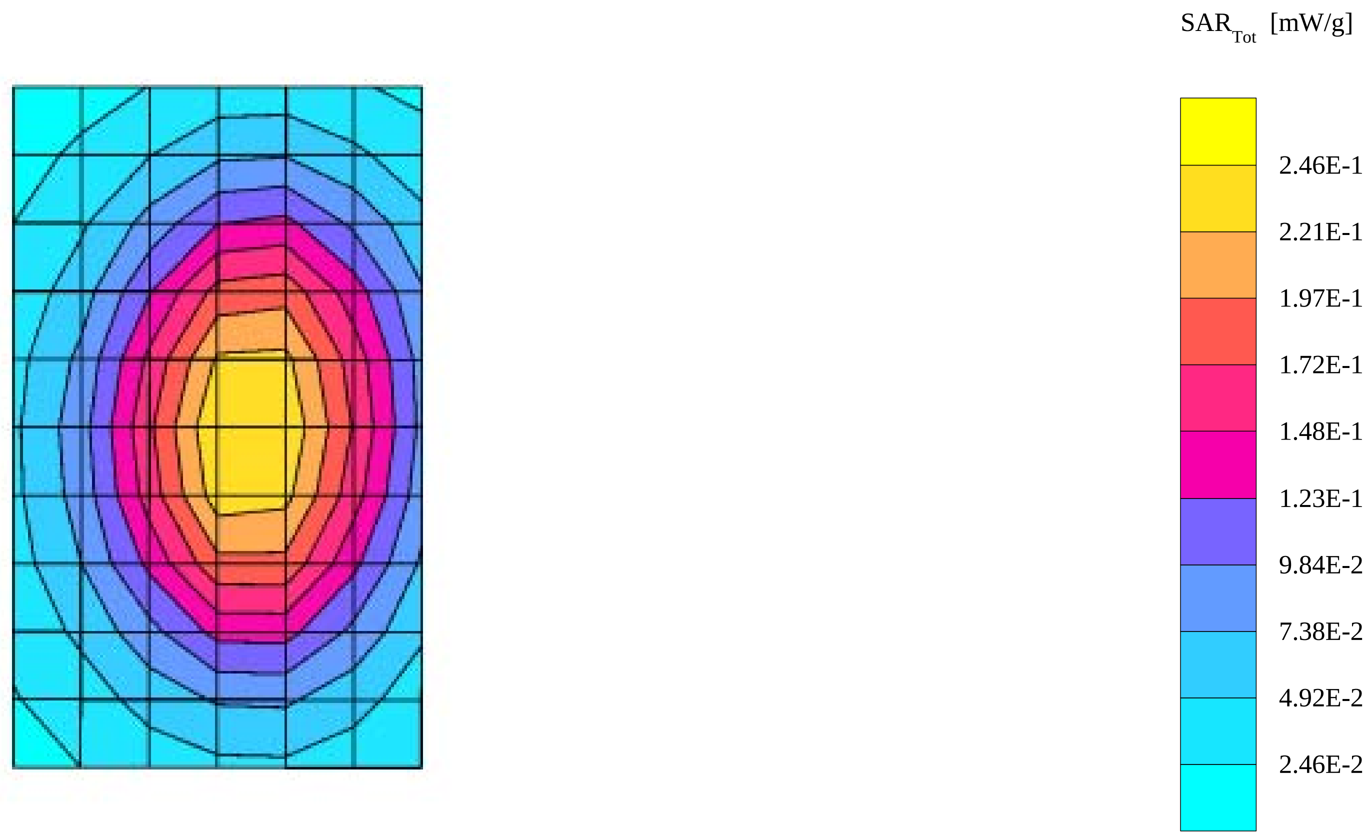
Figure 4.Typical 1900MHz Contour Overlaid on Phone (15 ˚ Tilt)

Appendix 3

SAR distribution plots for Body Worn Configuration

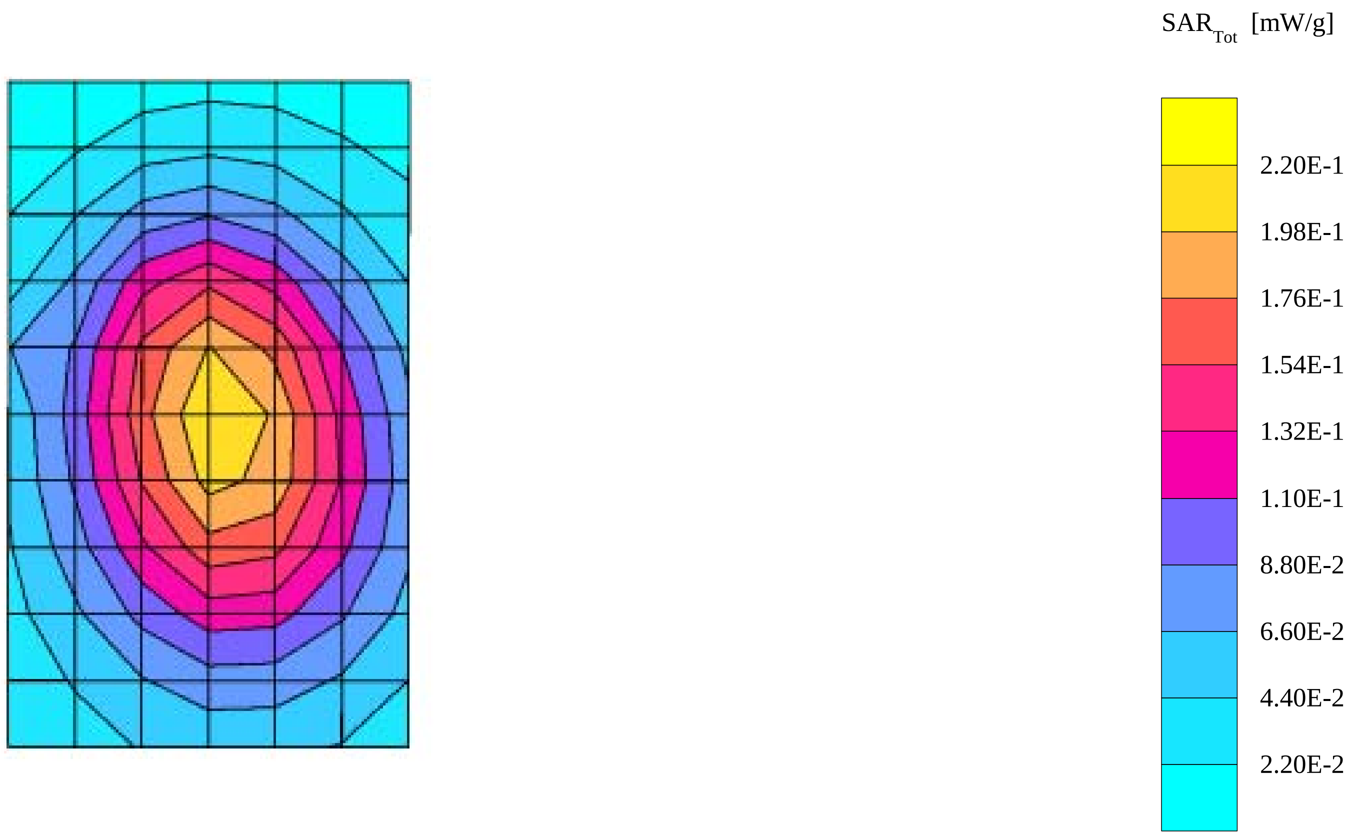
s/n: 770472BC

Ch# 384 / Pwr Step: Always Up / Type of Modulation: CDMA 800 / Battery Model #: SNN5725A
Body-worn with 1" separation from front of phone to phantom
R3 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 1 Section; Position: (0°,0°); Frequency: 837 MHz
Probe: ET3DV6R - SN1522 - FCC Body; ConvF(4.40,4.40,4.40); Crest factor: 1.0; 835 MHz Head & Body: σ = 0.97 mho/m ε_r = 53.0 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 0.249 mW/g, SAR (10g): 0.182 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Penetration depth: 17.0 (15.6, 18.5) [mm]
Powerdrift: -0.05 dB



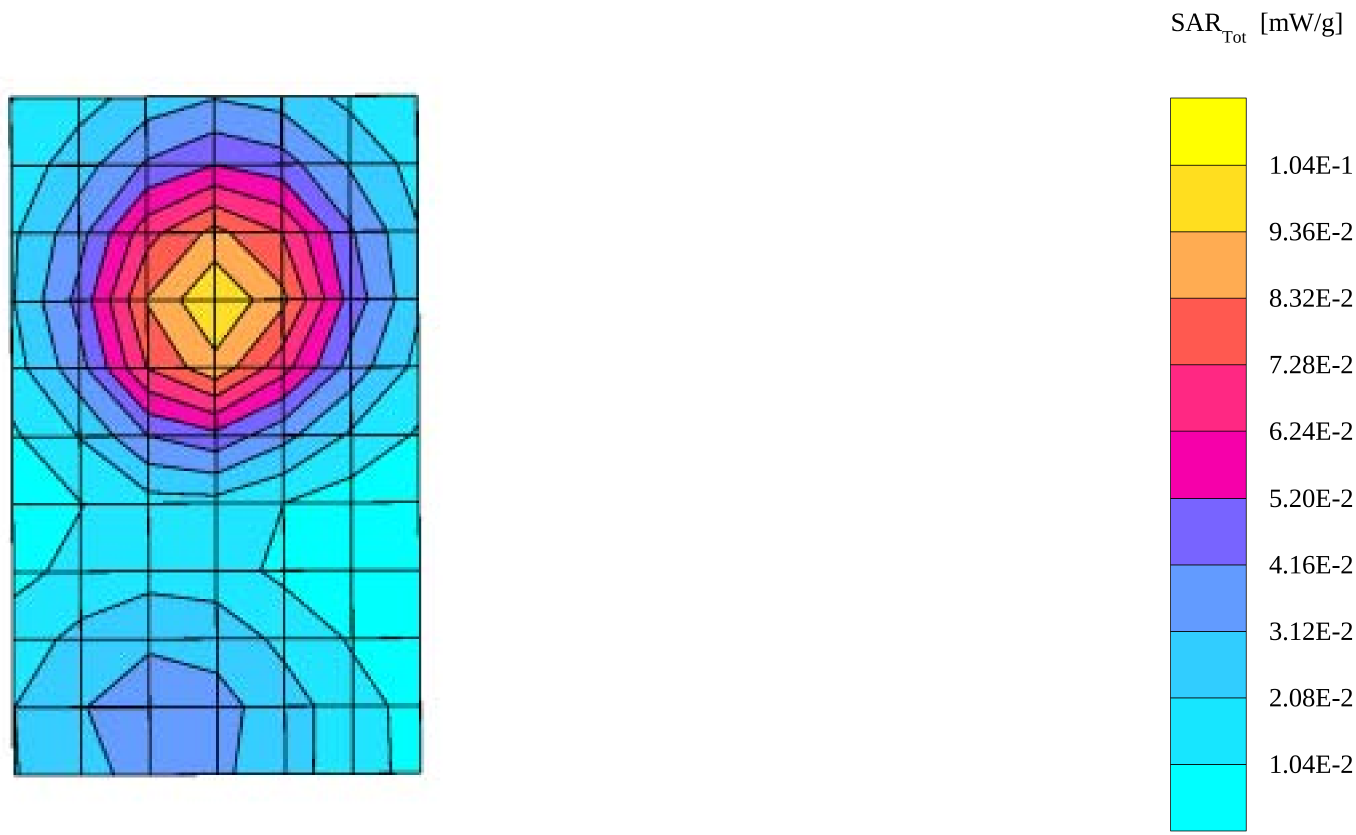
s/n: 770472BC

Ch# 384 / Pwr Step: Always Up / Type of Modulation:CDMA 800 / Battery Model #: SNN5725A
Body-worn with 1" separation from back of phone to phantom
R3 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 1 Section; Position: (0°,0°); Frequency: 837 MHz
Probe: ET3DV6R - SN1522 - FCC Body; ConvF(4.40,4.40,4.40); Crest factor: 1.0; 835 MHz Head & Body: σ = 0.97 mho/m ε_r = 53.0 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 0.219 mW/g, SAR (10g): 0.158 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Penetration depth: 16.2 (14.8, 17.7) [mm]
Powerdrift: 0.04 dB



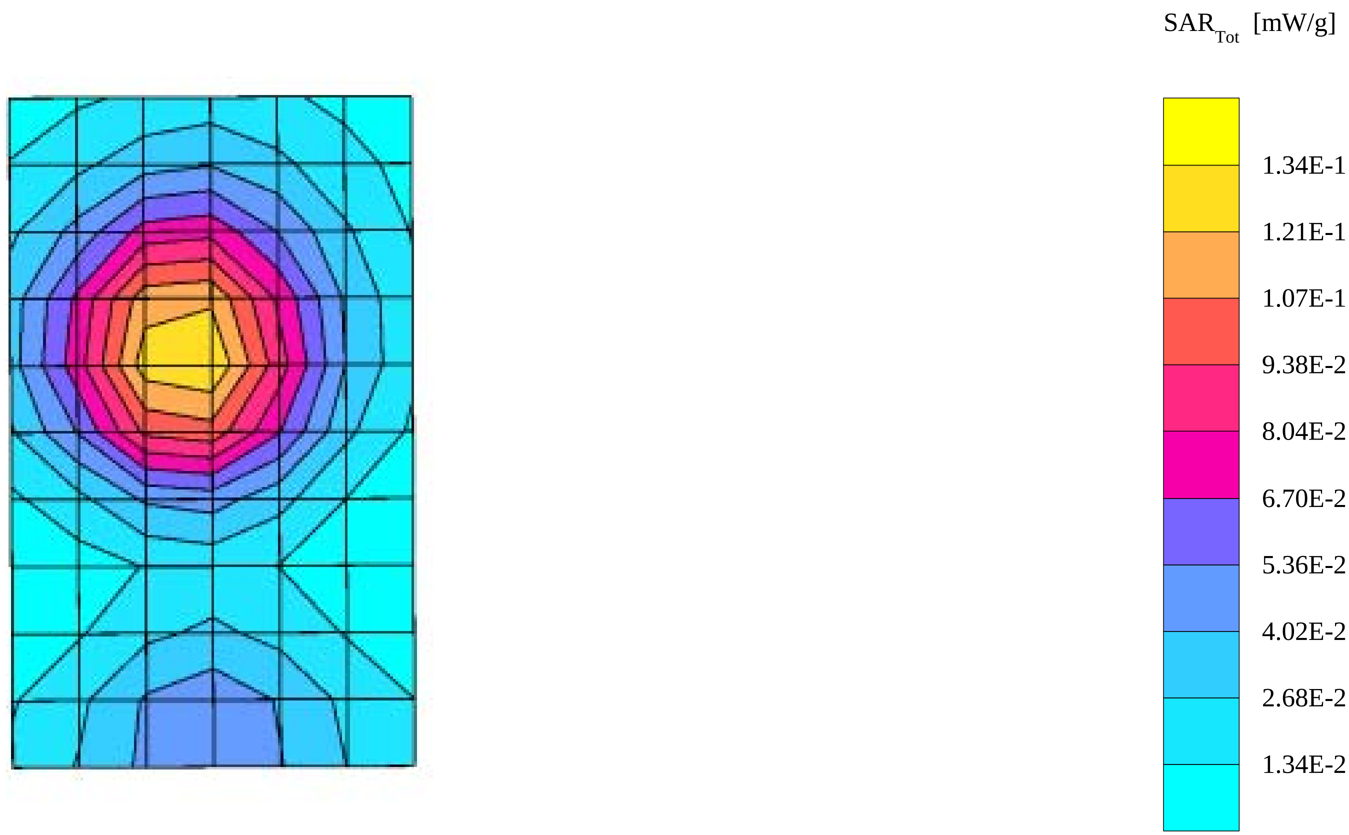
s/n: 770472BC

Ch# 600 / Pwr Step: 0 / Type of Modulation:cdma1900 / Battery Model #: snn5725a
Body-worn with 1" separation from front of phone to phantom
R3 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (0°,0°); Frequency: 1880 MHz
Probe: ET3DV6R - SN1522 - FCC Body; ConvF(3.10,3.10,3.10); Crest factor: 1.0; 1880 MHz Head & Body: σ = 1.59 mho/m ε_r = 51.3 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 0.103 mW/g, SAR (10g): 0.0644 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Penetration depth: 10.2 (9.0, 11.8) [mm]
Powerdrift: -0.10 dB



s/n: 770472BC

Ch# 600 / Pwr Step: 0 / Type of Modulation:cdma1900 / Battery Model #: snn5725a
Body-worn with 1" separation from back of phone to phantom
R3 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (0°,0°); Frequency: 1880 MHz
Probe: ET3DV6R - SN1522 - FCC Body; ConvF(3.10,3.10,3.10); Crest factor: 1.0; 1880 MHz Head & Body: σ = 1.59 mho/m ϵ_r = 51.3 ρ = 1.00 g/cm^3
Cube 7x7x7: SAR (1g): 0.140 mW/g, SAR (10g): 0.0863 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Penetration depth: 10.2 (8.9, 12.1) [mm]
Powerdrift: -0.07 dB



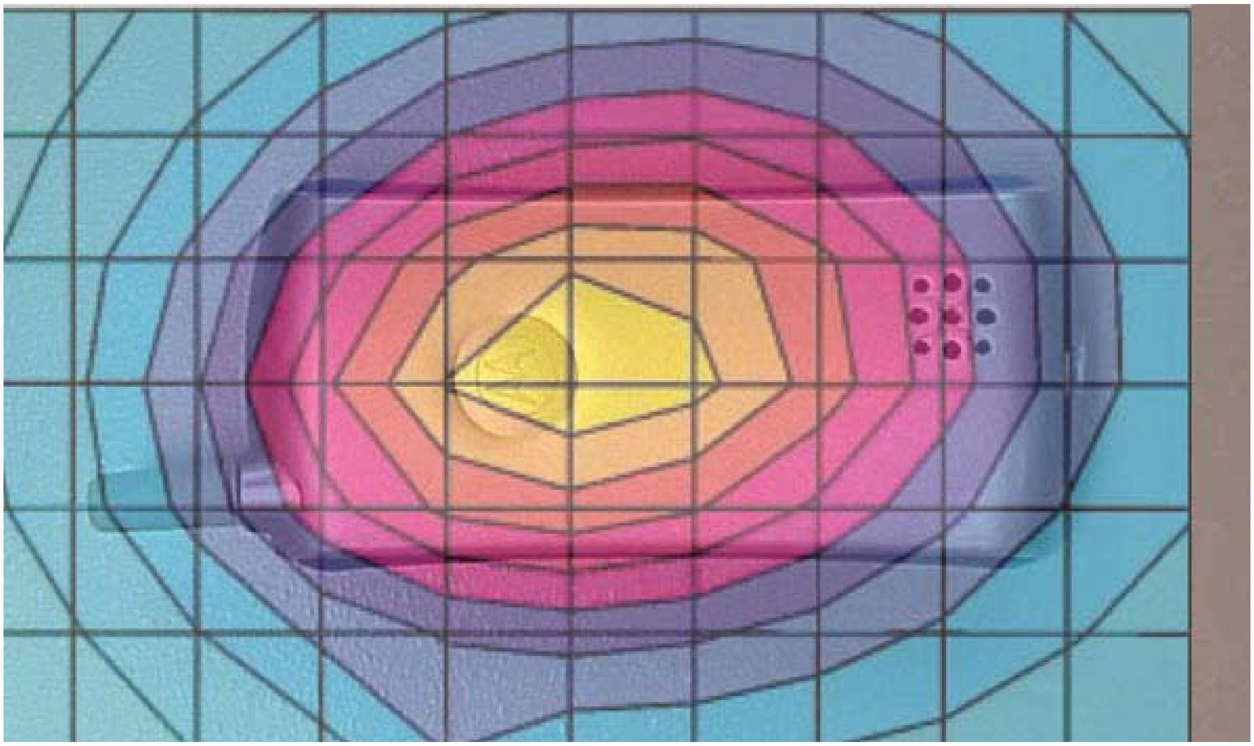


Figure 5.Typical 800 MHz Body-Worn Contour Overlaid on Phone

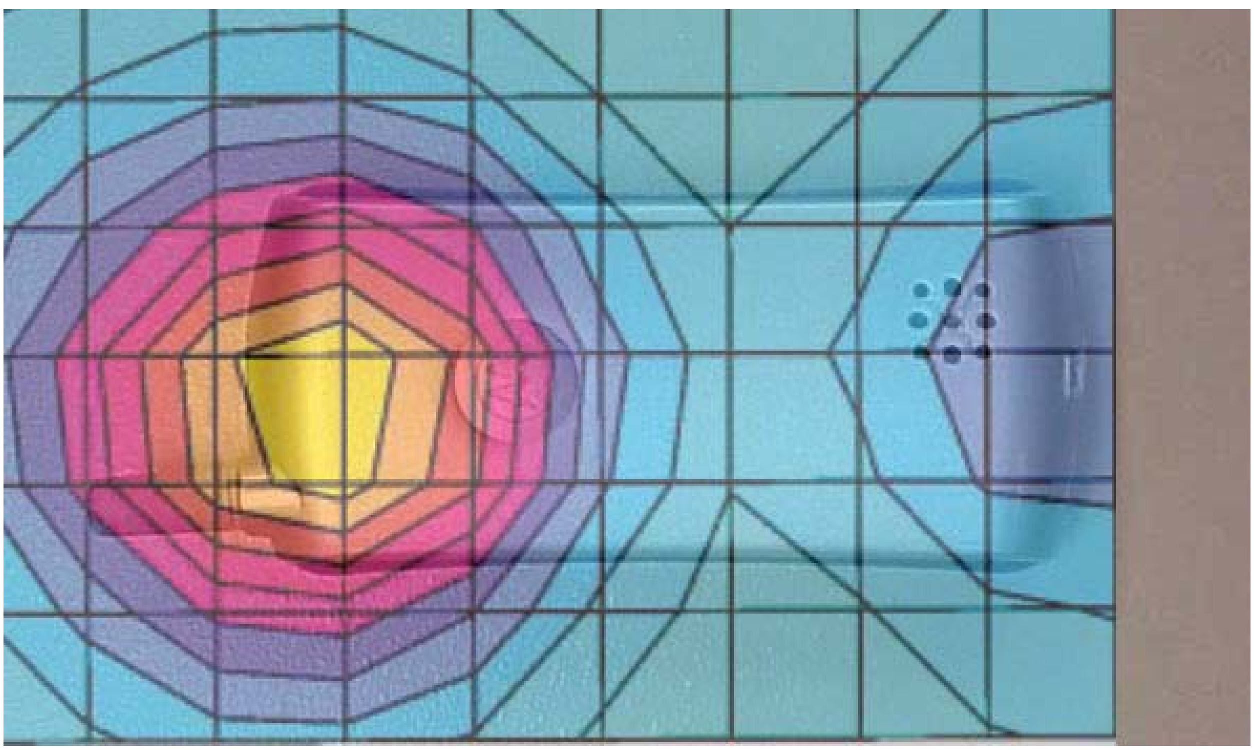


Figure 6. Typical 1900 MHz Body-Worn Contour Overlaid on Phone

Appendix 4

Probe Calibration Certificate

Appendix 5

Dipole Characterization Certificate

Interim Dipole Correlation Certificate

FCD-0359, Rev.001

Dipole Serial Number:	# 096	Last Calibration Date:	3-Jan-01
Dipole Type (MHz):	900 MHz	Calibration Due:	3-Jan-03
		Manufacturer:	SPEAG

-Manufacturer's Original Calibration Information-

Dipole to be correlated: **[Serial Number: 096]**

1g SAR normalized to 1W forward power (mW/g):	10.16 mW/g
Relative Dielectric:	40.6
Conductivity:	0.85
Probe Serial Number:	SN 1507
Forward Power:	250mW +/-3%

Primary Dipole Referenced: **[Serial Number: 077]**

1g SAR normalized to 1W forward power (mW/g):	11.4 mW/g
Relative Dielectric:	40.3
Conductivity:	0.95
Probe Serial Number:	SN 1507
Forward Power:	250mW +/-3%

-Correlation Method Utilized- per DOI-1265

(select one)

By Similarity: X   By Transfer Calibration:

-Measured Data-

Probe S/N:	SN 1515	Conductivity (meas.):	0.97
Robot Cell #:	HVD #8	Permittivity (meas.):	42.5

Primary Standard (average of 0-degree & 90-degree 1g cubes):

2.875 mW/g	N/R (if required)	N/R (if required)

Secondary Standard (average of 0-degree & 90-degree 1g cubes):

2.80 mW/g	N/R (if required)	N/R (if required)

-NEW Correlated Target-

1g SAR normalized to 1W forward power (mW/g):	11.4 mW/g
Relative Dielectric:	40.3
Conductivity:	0.95

Approved by: [signature]   **Date:** 11/13/2001

Comments: Secondary dipole measured –1.2% from primary dipole.

Interim Dipole Correlation Certificate

FCD-0359, Rev.001

Dipole Serial Number:	250(TR)	Last Calibration Date:	24-Aug-01
Dipole Type (MHz):	D1800V2 w/ Teflon Rings	Calibration Due:	24-Aug-03
		Manufacturer:	SPEAG

-Manufacturer's Original Calibration Information-

Dipole to be correlated: [Serial Number: 250(TR)]

1g SAR normalized to 1W forward power (mW/g):	38.4 mW/g
Relative Dielectric:	40.2
Conductivity:	1.38
Probe Serial Number:	1507
Forward Power:	250mW

Primary Dipole Referenced: [Serial Number: 246(TR)]

1g SAR normalized to 1W forward power (mW/g):	38.8 mW/g
Relative Dielectric:	39.6
Conductivity:	1.37
Probe Serial Number:	1507
Forward Power:	250 mW

-Correlation Method Utilized- per DOI-1265

(select one)

By Similarity: X By Transfer Calibration:

-Measured Data-

Probe S/N:	1375	Conductivity (meas.):	1.38
Robot Cell #:	HVD-4	Permittivity (meas.):	38.4

Primary Standard (average of 0-degree & 90-degree 1g cubes):

9.515 mW/g		
	(if required)	(if required)

Secondary Standard (average of 0-degree & 90-degree 1g cubes):

9.58 mW/g		
	(if required)	(if required)

-NEW Correlated Target-

1g SAR normalized to 1W forward power (mW/g):	38.8 mW/g
Relative Dielectric:	39.6
Conductivity:	1.37

Approved by: [signature] **Date:** 3/8/02

Comments: Secondary dipole measured +0.7% from primary dipole.

Schmid & Partner
Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Calibration Certificate

1800 MHz System Validation Dipole

Type:	**D1800V2**
Serial Number:	**259**
Place of Calibration:	**Zurich**
Date of Calibration:	**January 25, 2002**
Calibration Interval:	**24 months**

Schmid & Partner Engineering AG hereby certifies, that this device has been calibrated on the date indicated above. The calibration was performed in accordance with specifications and procedures of Schmid & Partner Engineering AG.

Wherever applicable, the standards used in the calibration process are traceable to international standards. In all other cases the standards of the Laboratory for EMF and Microwave Electronics at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland have been applied.

Calibrated by:	Nikoloski Neviana
Approved by:	

Schmid & Partner
Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

DASY

Dipole Validation Kit

Type: D1800V2

Serial: 259

Manufactured: December 23, 1999
Calibrated: January 25, 2002

1. Measurement Conditions

The measurements were performed in the flat section of the new generic twin phantom filled with head simulating solution of the following electrical parameters at 1800 MHz:

Relative Dielectricity	**39.6**	± 5%
Conductivity	**1.37 mho/m**	± 5%

The DASY3 System (Software version 3.1d) with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 5.31 at 1800 MHz) was used for the measurements.

The dipole was mounted on the small tripod so that the dipole feedpoint was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was <u>10mm</u> from dipole center to the solution surface. The included distance holder was used during measurements for accurate distance positioning.

The coarse grid with a grid spacing of 20mm was aligned with the dipole. The 5x5x7 fine cube was chosen for cube integration. Probe isotropy errors were cancelled by measuring the SAR with normal and 90° turned probe orientations and averaging.
The dipole input power (forward power) was 250mW ± 3 %. The results are normalized to 1W input power.

2. SAR Measurement

Standard SAR-measurements were performed with the phantom according to the measurement conditions described in section 1 (description of the modifications performed on the dipole are presented in section 4.). The results have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values are:

averaged over 1 cm^3 (1 g) of tissue:	**39.3 mW/g**
averaged over 10 cm^3 (10 g) of tissue:	**20.6 mW/g**

Note: If the liquid parameters for validation are slightly different from the ones used for initial calibration, the SAR-values will be different as well.

3. Dipole Impedance and Return Loss

The impedance was measured at the SMA-connector with a network analyzer and numerically transformed to the dipole feedpoint. The transformation parameters from the SMA-connector to the dipole feedpoint are:

Electrical delay:	**1.171 ns**	(one direction)
Transmission factor:	**0.990**	(voltage transmission, one direction)

The dipole was positioned at the flat phantom sections according to section 1 and the distance holder was in place during impedance measurements.

Feedpoint impedance at 1800 MHz:	Re{Z} = **52.8 Ω**
	Im {Z} = **5.6 Ω**
Return Loss at 1800 MHz	**-24.4 dB**

4. Modification

Small end caps (3 mm in length) made of Teflon have been added to the dipole arms by the Client. The overall dipole length has not been affected and is still according to the Standard.

5. SAR Measurement (w/o Teflon rings)

Standard SAR-measurements were performed with the phantom according to the measurement conditions described in section 1. The results have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values are:

averaged over 1 cm^3 (1 g) of tissue:	**40.4 mW/g**
averaged over 10 cm^3 (10 g) of tissue:	**21.0 mW/g**

Note: If the liquid parameters for validation are slightly different from the ones used for initial calibration, the SAR-values will be different as well.

6. Dipole Impedance and Return Loss (w/o Teflon rings)

The dipole was positioned at the flat phantom sections according to section 1 and the distance holder was in place during impedance measurements.

Feedpoint impedance at 1800 MHz:	Re{Z} =	**47.3 Ω**
	Im {Z} =	**-6.2 Ω**

Return Loss at 1800 MHz **-23.2 dB**

7. Handling

Do not apply excessive force to the dipole arms, because they might bend. Bending of the dipole arms stresses the soldered connections near the feedpoint leading to a damage of the dipole.

8. Design

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

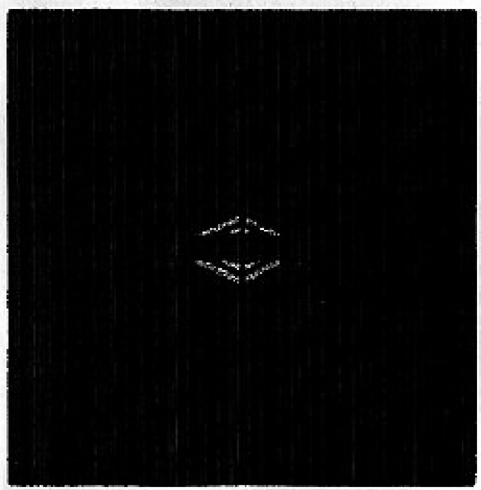
9. Power Test

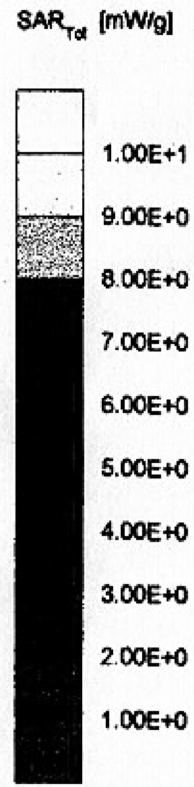
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

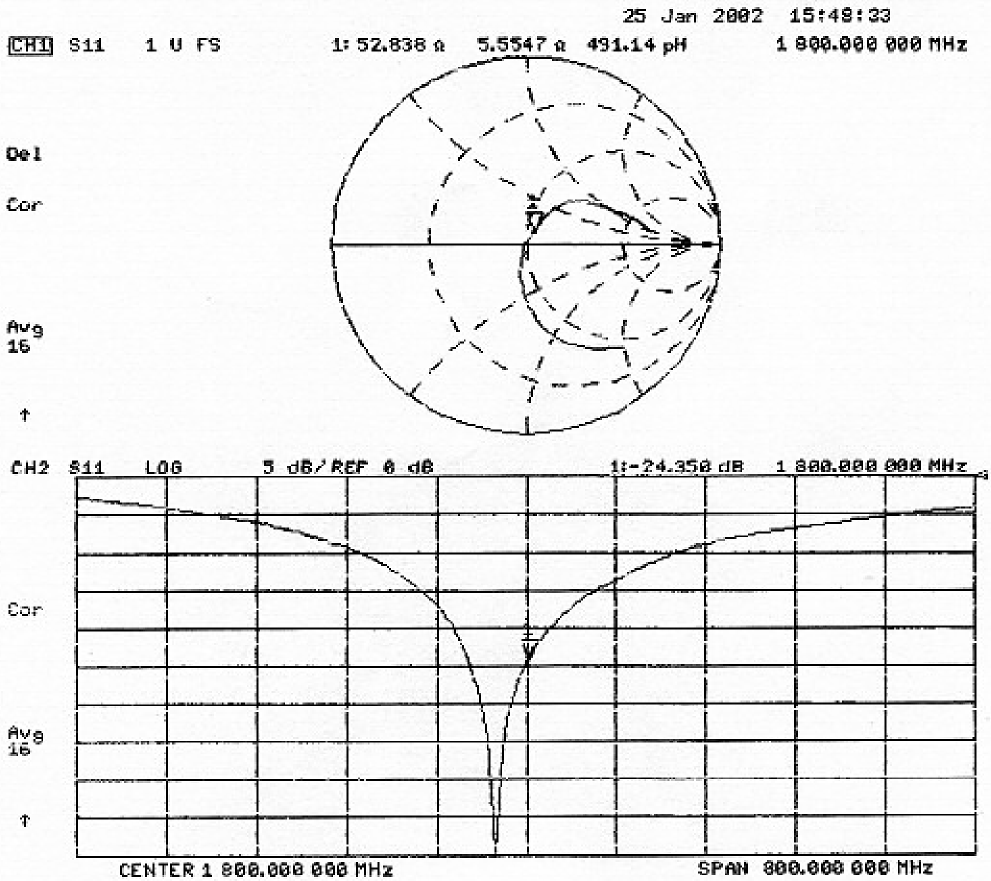
01/25/02

Validation Dipole D1800V2 SN:259, d = 10 mm (with Teflon rings)

Frequency: 1800 MHz; Antenna Input Power: 250 [mW]
SAM Phantom; Flat Section; Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0
Probe: ET3DV6 - SN1507; ConvF(5.31,5.31,5.31) at 1800 MHz; IEEE1528 1800 MHz ; σ = 1.37 mho/m ε_r = 39.6 ρ = 1.00 g/cm^3
Cubes (2): Peak: 18.5 mW/g ± 0.01 dB, SAR (1g): 9.83 mW/g ± 0.02 dB, SAR (10g): 5.15 mW/g ± 0.01 dB, (Worst-case extrapolation)
Penetration depth: 8.3 (7.8, 9.3) [mm]
Powerdrift: 0.00 dB

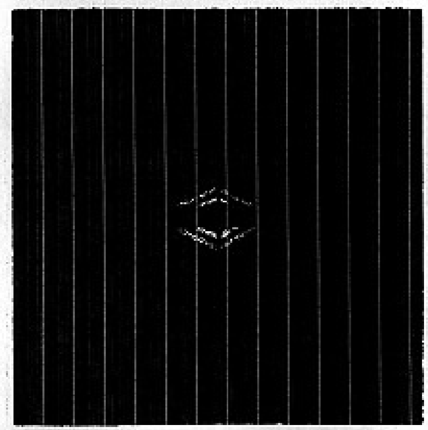


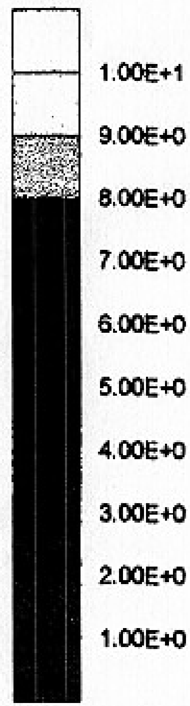


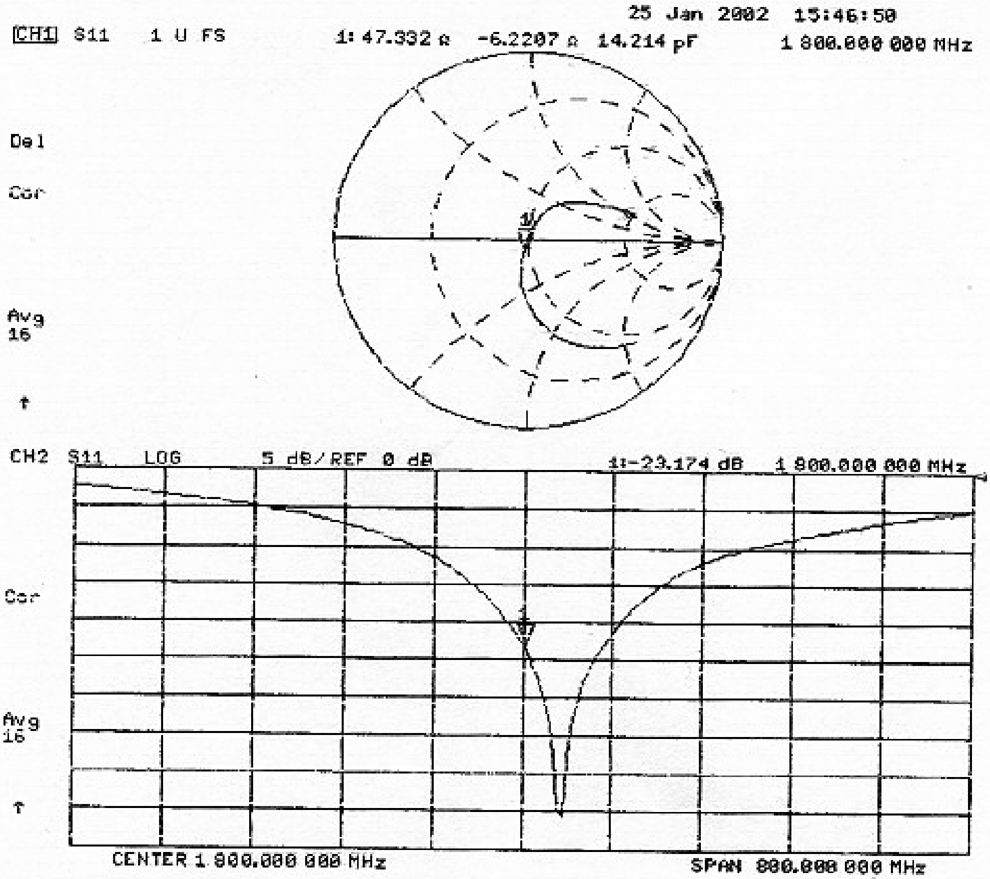

25 Jan 2002 15:48:33
CH1 S11 1 U FS
1: 52.838 Ω 5.5547 Ω 491.14 pH
1 800.000 000 MHz
Del
Cor
Avg
16
CH2 S11 LOG 5 dB/REF 0 dB
1:-24.350 dB
1 800.000 000 MHz
Cor
Avg
16
CENTER 1 800.000 000 MHz
SPAN 800.000 000 MHz

Validation Dipole D1800V2 SN:259, d = 10 mm (w/o Teflon rings)

Frequency: 1800 MHz; Antenna Input Power: 250 [mW]
SAM Phantom; Flat Section; Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0
Probe: ET3DV6 - SN1507; ConvF(5.31,5.31,5.31) at 1800 MHz; IEEE1528 1800 MHz ; σ = 1.37 mho/m ε_r = 39.6 ρ = 1.00 g/cm^3
Cubes (2): Peak: 19.1 mW/g ± 0.03 dB, SAR (1g): 10.1 mW/g ± 0.01 dB, SAR (10g): 5.25 mW/g ± 0.01 dB, (Worst-case extrapolation)
Penetration depth: 8.3 (7.8, 9.3) [mm]
Powerdrift: -0.03 dB






25 Jan 2002 15:46:50
CH1 S11 1 U FS
1: 47.332 Ω -6.2207 Ω 14.214 pF 1 800.000 000 MHz
Del
Cor
Avg
16
CH2 S11 LOG 5 dB/ REF 0 dB
1:-23.174 dB 1 800.000 000 MHz
Cor
Avg
16
CENTER 1 800.000 000 MHz
SPAN 800.000 000 MHz

Appendix 6

Measurement Uncertainty Budget

Uncertainty Budget for Device Under Test

a	*b*	*c*	*d*	*e = f(d,k)*	*f*	*g*	*h* = *c x f / e*	*i* = *c x g / e*	*k*
Uncertainty Component	**Sec.**	**Tol. (± %)**	**Prob. Dist.**	**Div.**	c_i (1 g)	c_i (10 g)	1 g u_i (±%)	10 g u_i (±%)	v_i
Measurement System									
Probe Calibration	E.2.1	9.5	N	2.00	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Spherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3	5.8	R	1.73	1	1	3.3	3.3	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1.0	N	1.00	1	1	1.0	1.0	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	1.3	R	1.73	1	1	0.8	0.8	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.3	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	1.1	R	1.73	1	1	0.6	0.6	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	3.9	R	1.73	1	1	2.3	2.3	∞
Test sample Related									
Test Sample Positioning	E.4.2	3.6	N	1.00	1	1	3.6	3.6	29
Device Holder Uncertainty	E.4.1	2.8	N	1.00	1	1	2.8	2.8	8
Output Power Variation - SAR drift measurement	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (shape and thickness tolerances)	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - measurement uncertainty	E.3.3	10.0	R	1.73	0.64	0.43	3.7	2.5	∞
Liquid Permittivity - deviation from target values	E.3.2	10.0	R	1.73	0.6	0.49	3.5	2.8	∞
Liquid Permittivity - measurement uncertainty	E.3.3	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Combined Standard Uncertainty			RSS				11.72	11.09	1363
Expanded Uncertainty (95% CONFIDENCE LEVEL)			*k* =2				22.98	21.75	

Uncertainty Budget for System Performance Check (dipole & flat phantom)

a	*b*	*c*	*d*	*e = f(d,k)*	*f*	*g*	*h = c x f / e*	*i = c x g / e*	*k*
Uncertainty Component	Sec.	**Tol. (± %)**	**Prob. Dist.**	**Div.**	**c_i (1 g)**	**c_i (10 g)**	**1 g u_i (±%)**	**10 g u_i (±%)**	**v_i**
Measurement System									
Probe Calibration	E.2.1	9.5	N	2.00	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	1	1	2.7	2.7	∞
Spherical Isotropy	E.2.2	9.6	R	1.73	0	0	0.0	0.0	∞
Boundary Effect	E.2.3	5.8	R	1.73	1	1	3.3	3.3	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1.0	N	1.00	1	1	1.0	1.0	∞
Response Time	E.2.7	0.0	R	1.73	1	1	0.0	0.0	∞
Integration Time	E.2.8	0.0	R	1.73	1	1	0.0	0.0	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.3	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	1.1	R	1.73	1	1	0.6	0.6	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	3.9	R	1.73	1	1	2.3	2.3	∞
Dipole									
Dipole Axis to Liquid Distance	8, E.4.2	1.0	R	1.73	1	1	0.6	0.6	∞
Input Power and SAR Drift Measurement	8, 6.6.2	4.7	R	1.73	1	1	2.7	2.7	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (shape and thickness tolerances)	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - measurement uncertainty	E.3.3	10.0	R	1.73	0.64	0.43	3.7	2.5	∞
Liquid Permittivity - deviation from target values	E.3.2	10.0	R	1.73	0.6	0.49	3.5	2.8	∞
Liquid Permittivity - measurement uncertainty	E.3.3	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Combined Standard Uncertainty			RSS				10.16	9.43	99999
Expanded Uncertainty (95% CONFIDENCE LEVEL)			*k*=2				19.92	18.48	

Appendix 7

Photographs of the device under test

Figure 7. Front Of Phone

Figure 8. Back Of Phone

Figure 9. Side View Of Phone

Figure 10. Phone in the positioner distanced 1 inch away from the flat phantom (Antenna Fixed)

Figure 11. Phone in the positioner distanced 1 inch away from the flat phantom with Head Set Attached (Antenna Fixed)

Figure 12. Front View of Phone Placed Against Head with Antenna Fixed

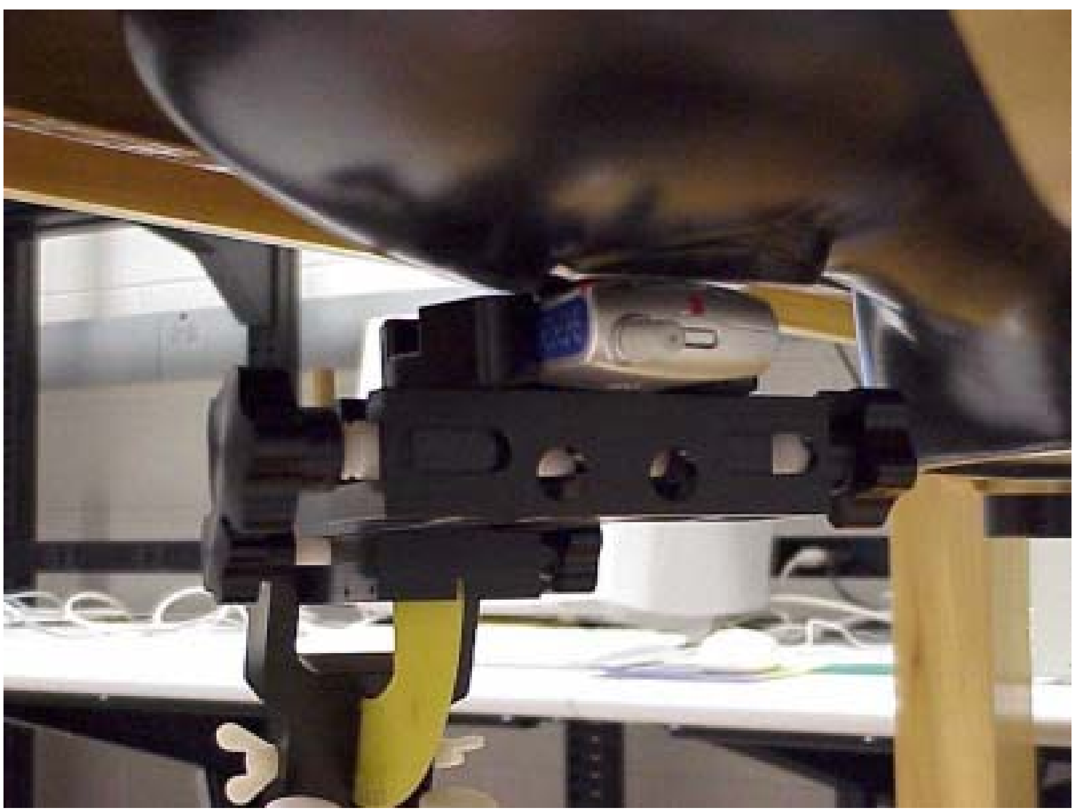


Figure 13. Back View of Phone Placed Against Head with Antenna Fixed

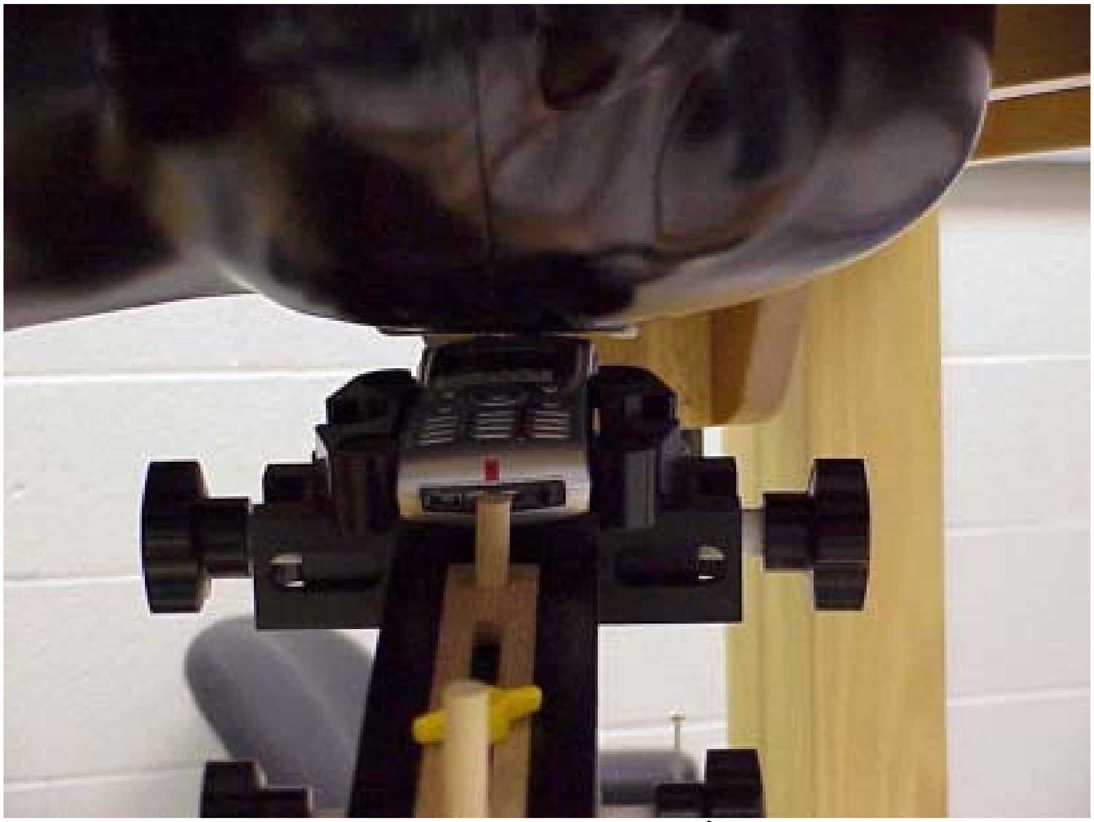


Figure 14. Front View of Phone Placed Against the Head (15˚ Tilt Position) with Antenna Fixed