

Exhibit 11: SAR Test Report IHDT56DR1

Date of test: 09/03/2003 - 09/18/2003

Date of Report: 09/24/2003

Motorola Personal Communications Sector Product Safety & Compliance Laboratory

600 N. US Highway 45

Laboratory: Room: MW113

Libertyville, Illinois 60048

Firass Badaruzzaman **Test Responsible:** Senior RF Engineer

Accreditation: This laboratory is accredited to ISO/IEC 17025-1999 to perform the following tests:

ACCREDITED

Tests: Procedures:

Electromagnetic Specific Absorption Rate ANSI/IEEE C95.1-1992, 1999

(SAR) IEEE C95.3-1991 IEEE P1528 (DRAFT)

FCC OET Bulletin 65 (including Supplements A, B, C)

FCC ID: IHDT56DR1

Australian Communications Authority Radio

Communications (Electromagnetic Radiation – Human

Exposure) Standard 1999 CENELEC EN 50361 (2001)

Simulated Tissue Preparation APP-0247

RF Power Measurement DOI-0876, 0900, 0902, 0904, 0915

On the following products or types of products:

Wireless Communications Devices (Examples): Two Way Radios; Portable Phones (including

Licensed Non-Broadcast and PCS); Low Frequency Readers; and Pagers

A2LA certificate #1651-01

Motorola declares under its sole responsibility that portable cellular telephone FCC ID IHDT56DR1 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

Statement of **Compliance:** standards, guidelines and recommended practices are noted below:

(none)

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This test report shall not be reproduced except in full, without written approval of the laboratory.

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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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 IHDT56DR1). 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.

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2. Description of the Device Under Test

Antenna description

Туре	Stubby				
Location	Right Side				
Dimensions	Length	21 mm			
	Width 10 mm				
Configuration	Fixed				

Device description

FCC ID Number		IHDT56DR1									
Serial number		LV50520029									
Mode(s) of Operation	GSM GSM GSM 850 900 1800			GSM 1900	GPRS 850	GPRS 900	GPRS 1800	GPRS 1900	Blue Tooth		
Modulation Mode(s)	GSM	GSM	GSM	GSM	GSM	GSM	GSM	GSM	Blue Tooth		
Maximum Output Power Setting	33.00 dBm	33.00 dBm	30.00 dBm	30.00 dBm	33.00 dBm	33.00 dBm	30.00 dBm	30.00 dBm	4.00 dBm		
Duty Cycle	1:08	1:08	1:08	1:08	2:08	2:08	2:08	2:08	1:01		
Transmitting Frequency Rang(s)	ting 824.2- 880.2- 1710.2- -		1850.20 - 1909.80 MHz	824.2- 848.8 MHz	880.2- 914.8 MHz	1710.2- 1784.8 MHz	1850.20 - 1909.80 MHz	2400 - 2483.5 MHz			
Production Unit or Identical Prototype (47 CFR §2908)	Identical Prototype										
Device Category					Portable						
RF Exposure Limits		-	-	General P	opulation / l	Jncontrolled	<u></u>	_			

3. Test Equipment Used

3.1 Dosimetric System

The Motorola Personal Communications Sector Product Safety & Compliance Laboratory utilizes a Dosimetric Assessment System (Dasy3TM v3.1d) manufactured by Schmid & Partner Engineering AG (SPEAGTM), of Zurich Switzerland. All the SAR measurements are taken within a shielded enclosure. The overall RSS uncertainty of the measurement system is $\pm 11.7\%$ (K=1) with an expanded uncertainty of $\pm 23.0\%$ (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 DAE V1	SN385	14-May-04
DASTS DAE VI	SN437	18-Mar-04
E-Field Probe ET3DV6	SN1501	16-Apr-04
L-Held Flobe L13DV0	SN1506	14-May-04
Dipole Validation Kit, D900V2	SN79	24-Jun-04
Dipole validation Kit, D900v2	SN425tr	24-Jun-04
S.A.M. Phantom used for 800MHz	TP-1154	
Dipole Validation Kit, D1800V2	SN246tr	24-Jun-04
Dipole Validation Nit, D1000V2	SN250tr	24-Jun-04
S.A.M. Phantom used for 1900MHz	TP-1005	

3.2 Additional Equipment

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3847A04632	10/10/2004
Power Meter E4419B	GB39511090	02/06/2004
Power Sensor #1 - 8481A	US39211007	02/06/2004
Power Sensor #2 - 8481A	US39210931	08/05/2004
Network Analyzer HP8753ES	US39172529	6/18/2003
Dielectric Probe Kit HP85070B	US33020235	

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3847A04633	10/11/2004
Power Meter E4419B	US39250622	11/05/2003
Power Sensor #1 - 8481A	US39210916	08/05/2004
Power Sensor #2 - 8481A	US39211008	08/05/2004
Network Analyzer HP8753ES	US39172529	6/18/2003
Dielectric Probe Kit HP85070B	US33020235	

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.

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f			Diele	ectric Para	meters
(MHz)	Tissue type	Limits / Measured	ϵ_r	σ (S/m)	Temp (°C)
	Head	Measured, 08/29/2003	42.20	0.91	19.8-20.8
	неаа	Recommended Limits	41.50	0.90	15-30
835		Measured, 09/06/2003	54.30	0.96	19.8-20.8
633	Body	Recommended Limits	55.20	0.97	15-30
		Measured, 09/07/2003	54.40	0.97	19.8-20.8
		Recommended Limits	55.20	0.97	15-30
	Head	Measured, 08/28/2003	38.20	1.45	19.8-20.8
		Recommended Limits	40.00	1.40	15-30
1880		Measured, 09/04/2003	52.30	1.57	19.8-20.8
1000	Rody	Recommended Limits	53.30	1.52	15-30
	Body	Measured, 09/07/2003	52.00	1.59	19.8-20.8
		Recommended Limits	53.30	1.52	15-30

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

Ingredien t	800MHz Head	800MHz Body	1900MHz Head	1900MHz Body
Sugar	57.0	44.9		30.80
DGBE	Ī	-	47.0	
Water	40.45	53.06	52.8	68.91
Salt	1.45	0.94	0.2	0.29
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 $15.0 \text{cm} \pm 0.5 \text{cm}$. 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.

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f	Description	SAR (W/kg),	Dielectric I	Parameters	Ambien t Temp	Tissue Temp
(MHz)		1gram	$\mathbf{\epsilon}_r$	σ (S/m)	(°C)	(°C)
835	Measured, 08/29/2003	10.08	42.20	0.91	20	20.5
033	Recommended Limits	10.10	41.5+/-5%	.97 +/- 5%	n/a	n/a
900	Measured, 09/06/2003	10.95	41.00	0.96	20	20.9
300	Recommended Limits	10.10	41.5+/-5%	.97 +/- 5%	n/a	n/a
	Measured, 08/28/2003	40.00	38.60	1.36	21	19.9
	Recommended Limits	39.70	40+/- 5%	1.4 +/- 5%	n/a	n/a
	Measured, 09/04/2003	39.90	38.50	1.35	20	19.5
1800	Recommended Limits	39.700	40+/- 5%	1.4 +/- 5%	n/a	n/a
1000	Measured, 09/05/20032	40.20	38.600	1.35	20	20.4
	Recommended Limits	39.70	40+/- 5%	1.4 +/- 5%	n/a	n/a
	Measured, 09/07/2003	39.80	40.00	1.38	21	20.2
	Recommended Limits	39.70	40+/- 5%	1.4 +/- 5%	n/a	n/a

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

Description	Serial Numbe r	f (MHz)	Conversion Factor	Cal Cert pg #
	SN1501	900	6.4	2 of 10
E-Field Probe	3111301	1800	5.0	2 of 10
ETDV6	SN1506	900	6.1	2 of 11
	3111300	1800	4.9	2 of 11

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 SPEAGTM 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 (\pm 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 IHDT56DR1) has the following battery options:

SNN5704A - 700 mAH Battery

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.

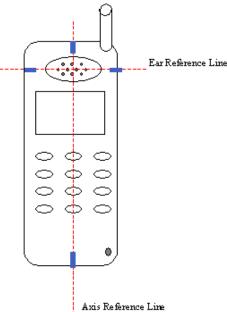
FCC ID: IHDT56DR1

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 DASYTM 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 ± 0.5 cm. 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.

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

5	Serial	<i>(</i>	Conversion	Cal Cert
Description	Numbe r	f (MHz)	Factor	pg#
	SN1501	900	6.4	2 of 10
E-Field Probe	3111301	1800	5.0	2 of 10
ETDV6	SN1506	900	6.1	2 of 11
	3111300	1800	4.9	2 of 11

			(Cheek / Touch Position)							
		Conducted		Le	eft Head		Right Head			
f (MHz)	Description	Output Power (dBm)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
	Channel 128	33.01					0.767	-0.31	0.82	19.9
Digital 850MHz	Channel 190	32.99	0.698	-0.37	0.76	19.80	0.853	-0.30	0.91	20
	Channel 251	33.00					1.01	-0.34	1.09	20
	Channel 512	30.00								
Digital 1900MHz	Channel 661	30.00	0.555	-0.01	0.56	19.20	0.696	-0.09	0.71	19.20
	Channel 810	30.00								

Table 1: SAR measurement results for the portable cellular telephone FCC ID IHDT56DR1 at highest possible output power. Against the head (Cheek Touch)

			(15° Tilt Position)							
		Conducted	Left Head				Right Head			
f (MHz)	Description	Output Power (dBm)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
Digital 850MHz	Channel 128	33.01								
	Channel 190	32.99	0.225	-0.52	0.25	19.80	0.238	-0.16	0.25	20.00
	Channel 251	33.00								
Digital 1900MHz	Channel 512	30.00								
	Channel 661	30.00	0.189	-0.01	0.19	19.2	0.24	-0.05	0.24	19.40
	Channel 810	30.00								

Table 2: SAR measurement results for the portable cellular telephone FCC ID IHDT56DR1 at highest possible output power. Against the head (15° Tilt)

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 DASYTM 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.

FCC ID: IHDT56DR1

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 $15.0 \,\mathrm{cm} \pm 0.5 \,\mathrm{cm}$. 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 is a Body-Worn Accessory available for this phone: A Mercury Eva pouch: SYN9941A

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 #
	SN1501	900	6.1	8 of 10
E-Field Probe	3111301	1800	4.6	8 of 10
ETDV6	SN1506	900	5.8	8 of 11
	3111300	1800	4.5	8 of 11

			Body Worn							
		Conducted	Mercury Eva Pouch			Mercury Eva Pouch (GPRS PC10)				
f (MHz)	Description	Output Power (dBm)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
Digital 850MHz	Channel 128	33.01								
	Channel 190	32.99	0.231	-0.29	0.25	20.50	0.445	-0.47	0.50	20.50
	Channel 251	33.00								
Digital 1900MHz	Channel 512	30.00								
	Channel 661	30.00	0.107	-0.05	0.11	20.40	0.251	-0.07	0.26	20.80
	Channel 810	30.00								

Table 5: SAR measurement results for the portable cellular telephone FCC ID IHDT56DR1 at highest possible output power. Measured against the body.

			Body Worn							
		Conducted	Mercury Eva Pouch with blue tooth enabled							
f (MHz)	Description	Output Power (dBm)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)	Measured (W/kg)	Drift (dB)	Extrapolated (W/kg)	Simulate Temp (°C)
Digital 850MHz	Channel 128	33.01								
	Channel 190	32.99	0.259	-0.28	0.28	20.30				
	Channel 251	33.00								
Digital 1900MHz	Channel 512	30.00								
	Channel 661	30.00	0.128	-0.05	0.13	20.0				
	Channel 810	30.00								

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Table 6: SAR measurement results for the portable cellular telephone FCC ID IHDT56DR1 at highest possible output power. Measured against the body.

Appendix 1

FCC ID: IHDT56DR1

SAR distribution comparison for the system accuracy verification

1800 MHz System Performance Check / Dipole Sn# 250TR / Forward Power =248mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 21 C Simulant Temp at time of measurement = 19.9 C

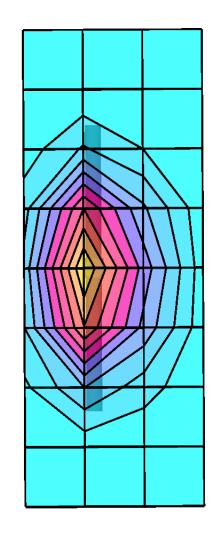
R1 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (90°,180°); Frequency: 1800 MHz

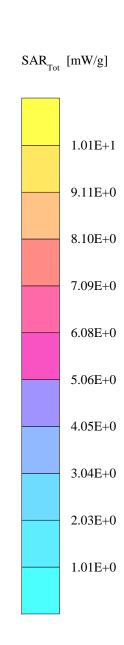
Probe: ET3DV6R - SN1506 - Validation.2; ConvF(4.90,4.90,4.90); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.36$ mho/m $\epsilon_r = 38.6$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 10.0 mW/g \pm 0.04 dB, SAR (10g): 5.28 mW/g \pm 0.06 dB, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 8.6 (8.2, 9.3) [mm]

Powerdrift: -0.05 dB





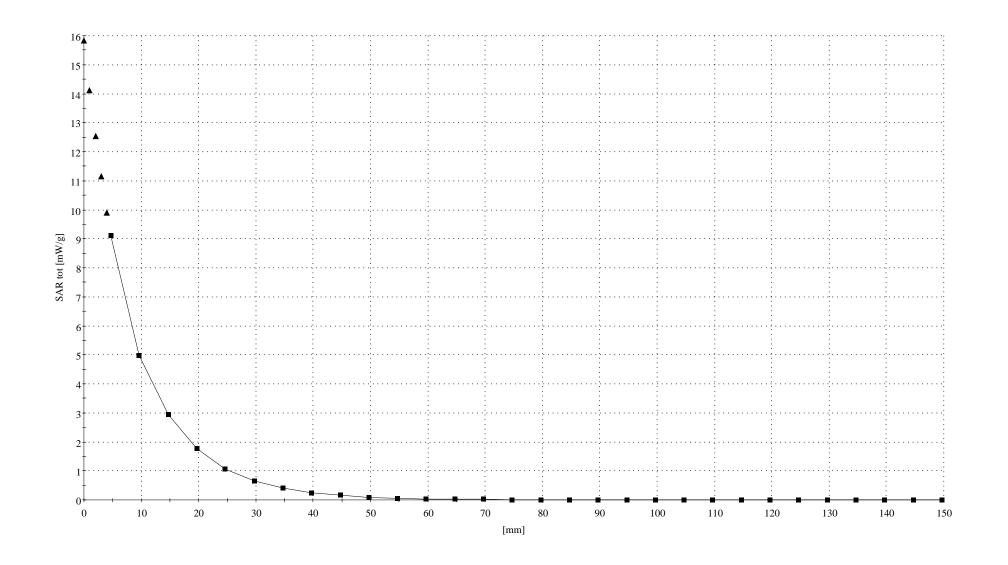
1800 MHz System Performance Check / Dipole Sn# 250TR / Forward Power = 248mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 21 C Simulant Temp at time of measurement = 19.9 C

R1 Amy Twin Phantom Rev.4 (22Aug02) Phantom; Section; Position: ; Frequency: 1800 MHz

Probe: ET3DV6R - SN1506 - Validation.2; ConvF(4.90,4.90,4.90); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.36$ mho/m $\epsilon_r = 38.6$ $\rho = 1.00$ g/cm³

:,()

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0Penetration depth: 8.7 (8.4, 9.5) [mm]



Dipole 835 MHz

 $835\,\mathrm{MHz}$ System Performance Check / Dipole Sn# $425\mathrm{TR}$ / Forward Power = $249\mathrm{mW}$ / Acceptable Temp Range is $18\text{-}25^{\circ}\mathrm{C}$ Room Temp at time of measurement = $20\,\mathrm{C}$ Simulant Temp at time of measurement = $20.5\,\mathrm{C}$

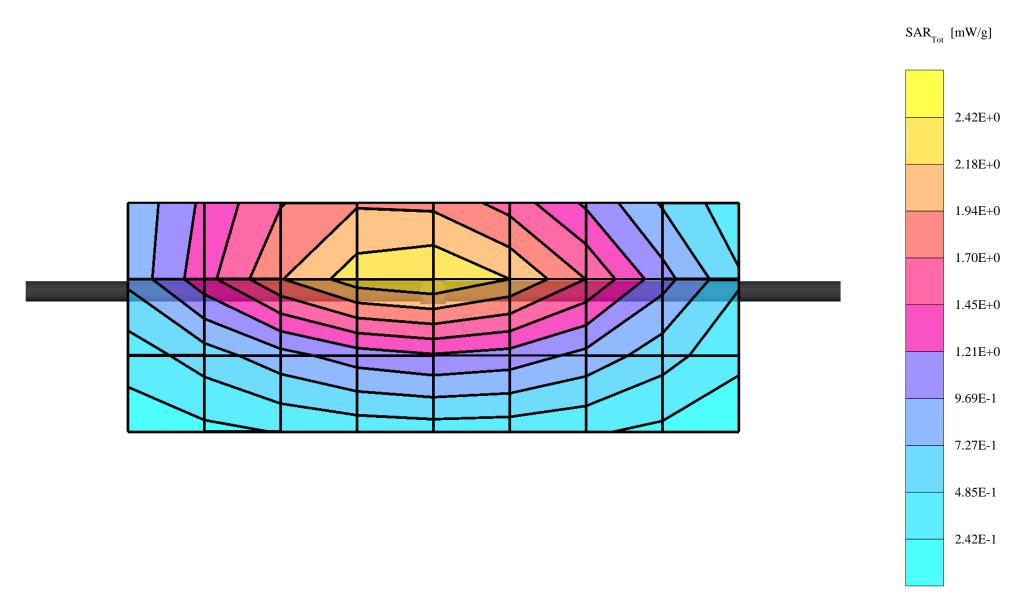
R1 TP-1005 SAM Expanded Sugar (Rev. 2)-9Jan03 Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6R - SN1506 - Validation.2; ConvF(6.10,6.10,6.10); Crest factor: 1.0; 835 MHz VALIDATION: $\sigma = 0.91$ mho/m $\epsilon_r = 42.2$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 2.51 $\text{mW/g} \pm 0.04 \text{ dB}$, SAR (10g): 1.61 $\text{mW/g} \pm 0.05 \text{ dB}$, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 12.0 (10.9, 13.4) [mm]

Powerdrift: 0.02 dB



Dipole 835 MHz

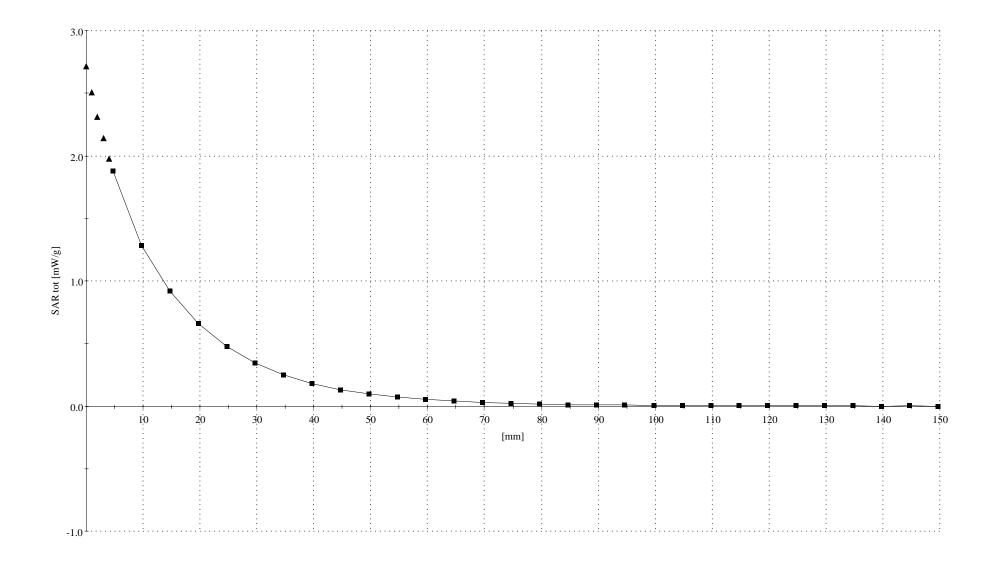
835 MHz System Performance Check / Dipole Sn# 450TR / Forward Power = 249mW / Acceptable Temp Range is $18-25^{\circ}C$ Room Temp at time of measurement = 20.5 C C Simulant Temp at time of measurement = 20.5 C

R1 TP-1005 SAM Expanded Sugar (Rev. 2)-9Jan03 Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6R - SN1506 - Validation.2; ConvF(6.10,6.10,6.10); Crest factor: 1.0; 835 MHz VALIDATION: $\sigma = 0.91$ mho/m $\epsilon_r = 42.2$ $\rho = 1.00$ g/cm³

:,()

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0Penetration depth: 13.9 (13.0, 15.0) [mm]



1800 MHz System Performance Check / Dipole Sn# 246TR / Forward Power = 249mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 20C Simulant Temp at time of measurement = 19.5C

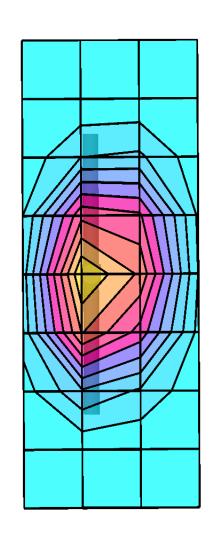
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (90°,180°); Frequency: 1800 MHz

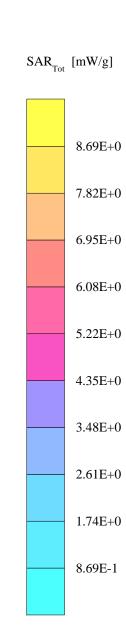
Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1800 MHz VALIDATION: σ = 1.35 mho/m ϵ_r = 38.5 ρ = 1.00 g/cm³

Cubes (2): SAR (1g): 9.94 $\text{mW/g} \pm 0.02 \text{ dB}$, SAR (10g): 5.24 $\text{mW/g} \pm 0.06 \text{ dB}$, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 8.5 (8.2, 9.3) [mm]

Powerdrift: 0.02 dB





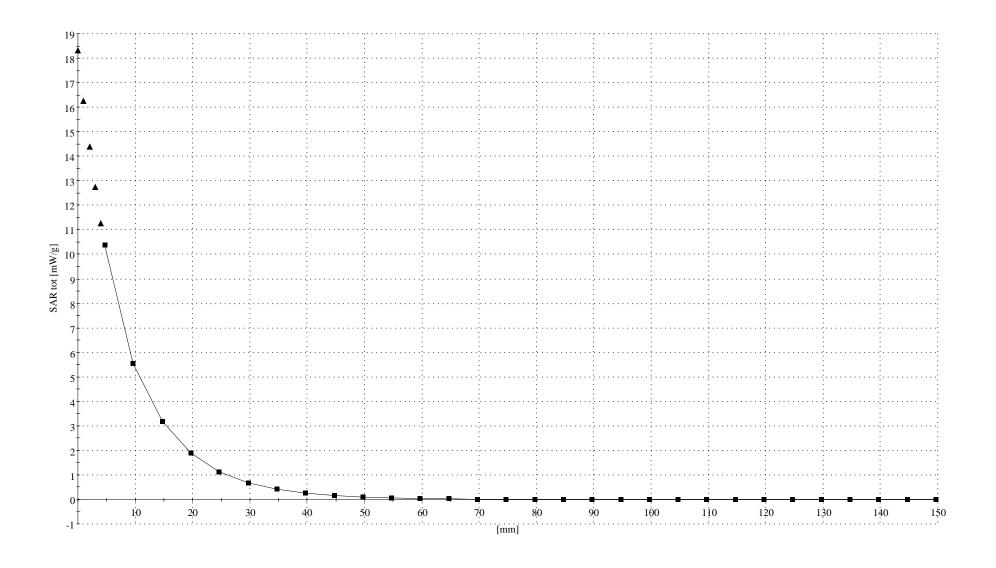
1800 MHz System Performance Check / Dipole Sn# 246TR / Forward Power = 249mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 20C Simulant Temp at time of measurement = 19.5C

R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; Section; Position: ; Frequency: 1800 MHz

Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.35 \text{ mho/m} \ \epsilon_r = 38.5 \ \rho = 1.00 \text{ g/cm}^3$

:,()

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0Penetration depth: 8.4 (8.0, 9.1) [mm]



1800 MHz System Performance Check / Dipole Sn# 246TR / Forward Power = 248mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 20C Simulant Temp at time of measurement = 20.4C

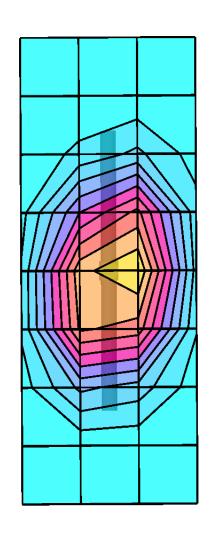
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (90°,180°); Frequency: 1800 MHz

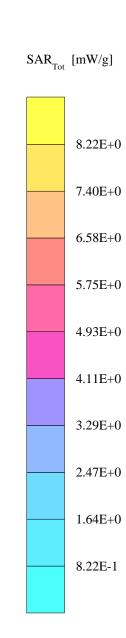
Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.35 \text{ mho/m} \ \epsilon_r = 38.6 \ \rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): 9.89 $\text{mW/g} \pm 0.06 \text{ dB}$, SAR (10g): 5.22 $\text{mW/g} \pm 0.07 \text{ dB}$, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 8.4 (8.1, 9.2) [mm]

Powerdrift: 0.02 dB





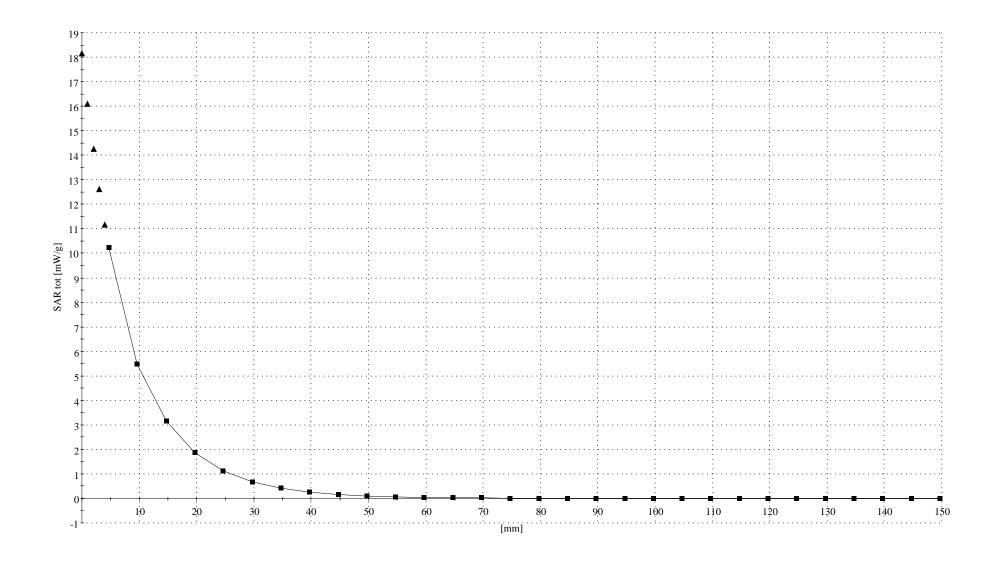
1800 MHz System Performance Check / Dipole Sn# 246TR / Forward Power = 248mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 20C Simulant Temp at time of measurement = 20.4C

R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; Section; Position: ; Frequency: 1800 MHz

Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.35 \text{ mho/m} \ \epsilon_r = 38.6 \ \rho = 1.00 \ \text{g/cm}^3$

:,()

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0Penetration depth: 8.4 (8.0, 9.1) [mm]



Dipole 900 MHz

900 MHz System Performance Check / Dipole Sn# 079 / Forward Power = 252mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 20.0C Simulant Temp at time of measurement = 20.9C

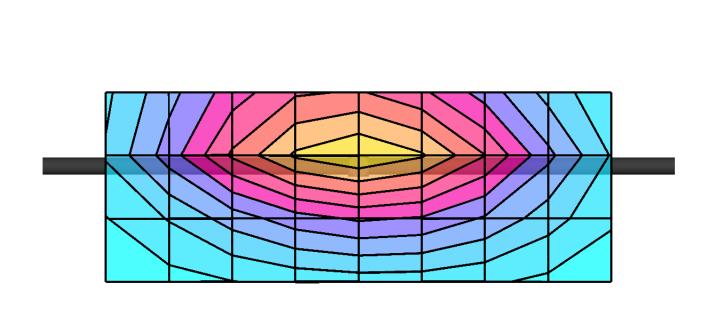
R5 TP-1132 Sugar SAM Expanded (Rev. 2)-9Jan03 Phantom; Flat Section; Position: (90°,90°); Frequency: 900 MHz

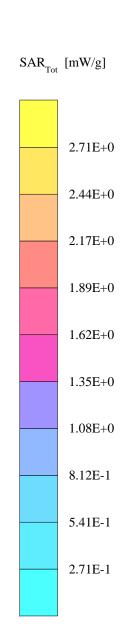
Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(6.40,6.40,6.40); Crest factor: 1.0; 900 MHz VALIDATION: $\sigma = 0.96$ mho/m $\epsilon_r = 41.0 \ \rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 2.76 $\,$ mW/g \pm 0.08 dB, SAR (10g): 1.75 $\,$ mW/g \pm 0.08 dB, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0 Penetration depth: 11.7 (10.9, 12.7) [mm]

Powerdrift: 0.00 dB





Dipole 900 MHz

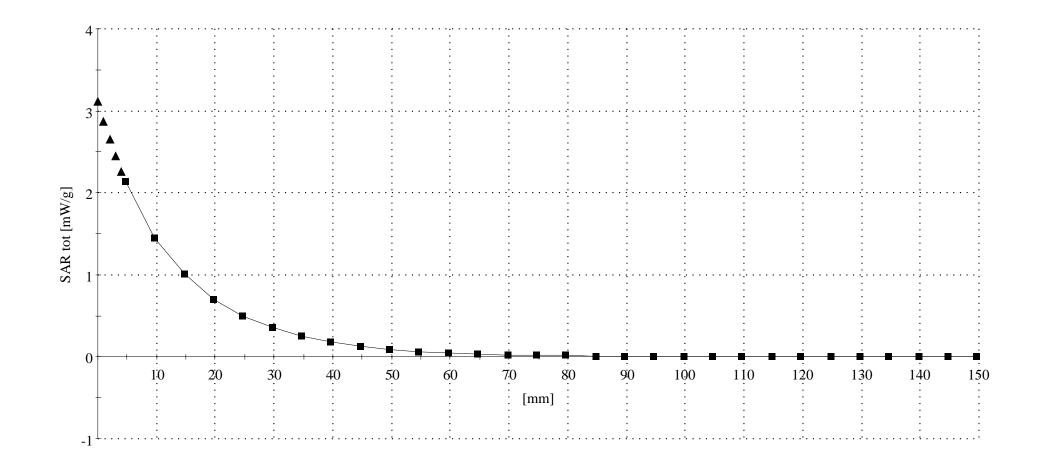
900 MHz System Performance Check / Dipole Sn# 079 / Forward Power = 252mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 20.0C Simulant Temp at time of measurement = 20.9C

R5 TP-1132 Sugar SAM Expanded (Rev. 2)-9Jan03 Phantom; Section; Position: ; Frequency: 900 MHz

Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(6.40,6.40,6.40); Crest factor: 1.0; 900 MHz VALIDATION: $\sigma = 0.96$ mho/m $\epsilon_r = 41.0$ $\rho = 1.00$ g/cm³

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0Penetration depth: 13.1 (12.6, 13.8) [mm]



1800 MHz System Performance Check / Dipole Sn# 246tr / Forward Power = 250mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 21 C Simulant Temp at time of measurement = 20.2 C

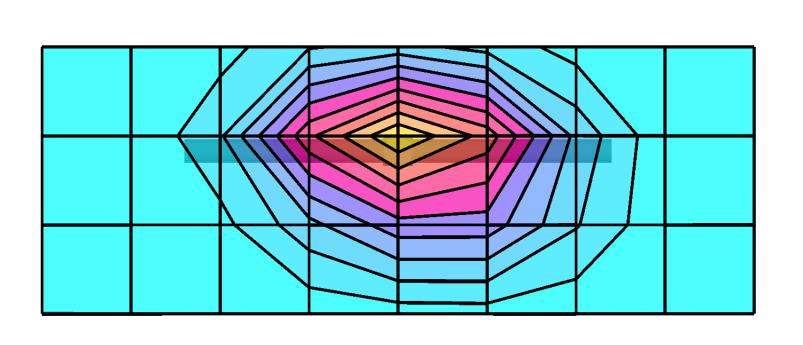
R5: TP-1160 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Flat Section; Position: (90°,90°); Frequency: 1800 MHz

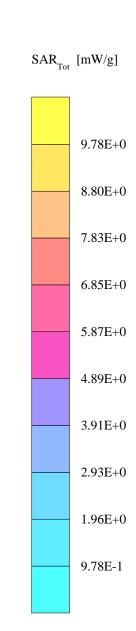
Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1800 MHz VALIDATION: $\sigma = 1.38 \text{ mho/m } \epsilon_r = 40.0 \text{ } \rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): 9.80 $\text{mW/g} \pm 0.06 \text{ dB}$, SAR (10g): 5.21 $\text{mW/g} \pm 0.03 \text{ dB}$, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 8.7 (8.4, 9.5) [mm]

Powerdrift: 0.09 dB





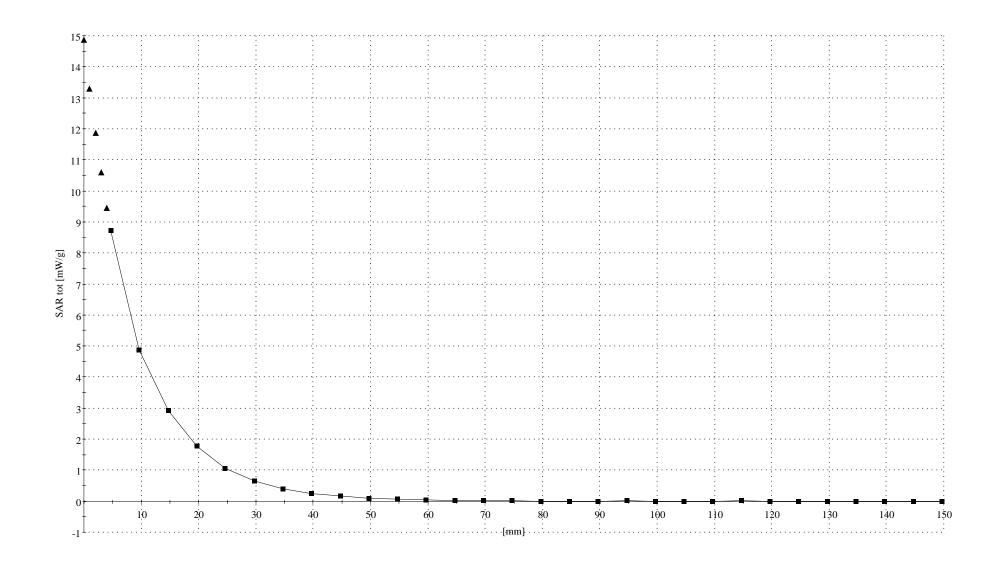
1800 MHz System Performance Check / Dipole Sn# 246tr / Forward Power = 250mW / Acceptable Temp Range is 18-25°C Room Temp at time of measurement = 21 C Simulant Temp at time of measurement = 20.2 C

R5: TP-1160 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Section; Position: ; Frequency: 1800 MHz

Probe: ET3DV6R - SN1501 - VALIDATION; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1800 MHz VALIDATION: σ = 1.38 mho/m ϵ_r = 40.0 ρ = 1.00 g/cm³

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0Penetration depth: 9.0 (8.7, 9.7) [mm]



Appendix 2

FCC ID: IHDT56DR1

SAR distribution plots for Phantom Head Adjacent Use

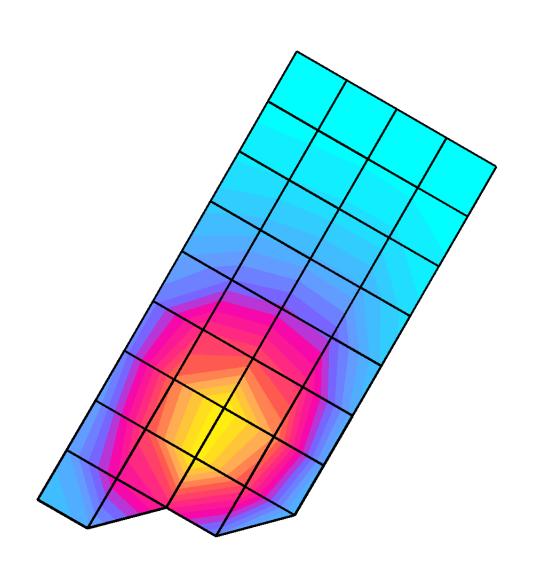
Ch# 190 / Pwr Step:05 / Antenna Position:FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): CHEEK R1 TP-1005 SAM Expanded Sugar (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 837 MHz

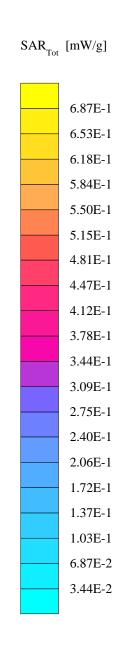
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(6.10,6.10,6.10); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.91$ mho/m $\epsilon_r = 42.2$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.698 mW/g, SAR (10g): 0.482 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0 Penetration depth: 15.8 (13.9, 18.1) [mm]

Powerdrift: -0.37 dB





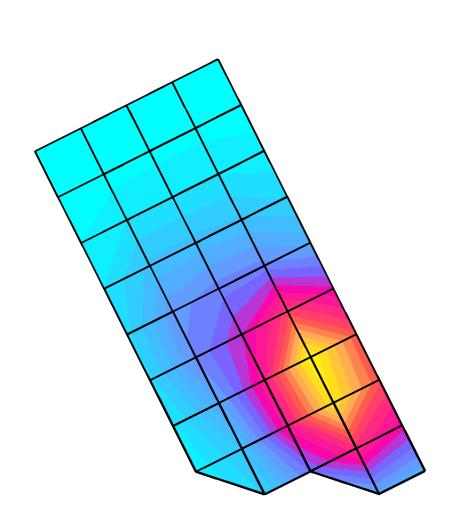
Ch# 251 / Pwr Step:05 / Antenna Position:FIXED/ Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): CHEEK R1 TP-1005 SAM Expanded Sugar (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 849 MHz

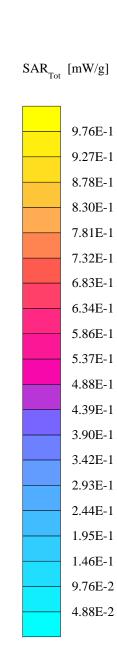
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(6.10,6.10,6.10); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.91$ mho/m $\epsilon_r = 42.2$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.01 mW/g, SAR (10g): 0.656 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0 Penetration depth: 14.0 (12.2, 16.2) [mm]

Powerdrift: -0.34 dB





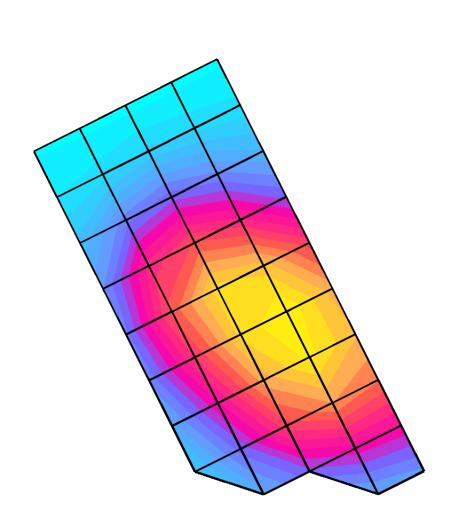
Ch# 190 / Pwr Step:05 / Antenna Position:FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): CHEEK R1 TP-1005 SAM Expanded Sugar (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 837 MHz

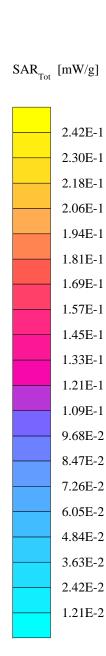
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(6.10,6.10,6.10); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.91$ mho/m $\epsilon_r = 42.2$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.238 mW/g, SAR (10g): 0.178 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0 Penetration depth: 19.8 (17.8, 21.8) [mm]

Powerdrift: -0.16 dB





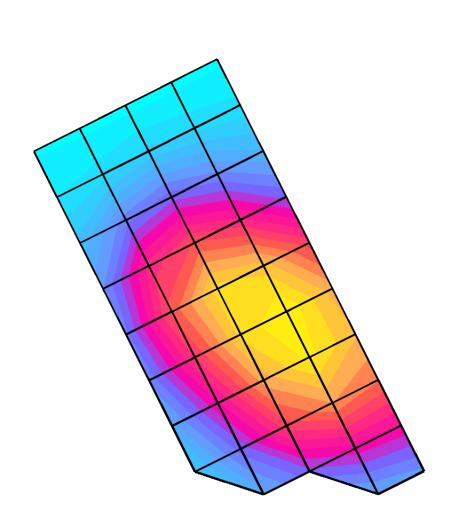
Ch# 190 / Pwr Step:05 / Antenna Position:FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): CHEEK R1 TP-1005 SAM Expanded Sugar (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 837 MHz

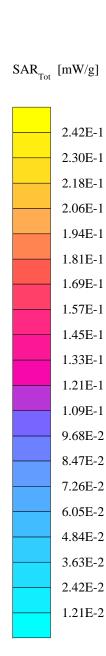
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(6.10,6.10,6.10); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.91$ mho/m $\epsilon_r = 42.2$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.238 mW/g, SAR (10g): 0.178 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0 Penetration depth: 19.8 (17.8, 21.8) [mm]

Powerdrift: -0.16 dB





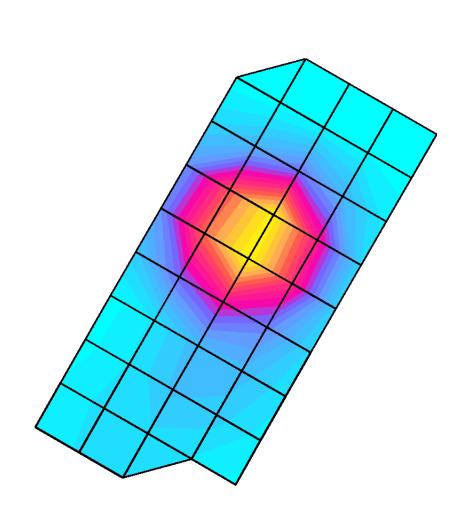
Ch# 661 / Pwr Step: 0 / Antenna Position: FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated):TILTED R1 TP-1154 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 1880 MHz

Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(4.90,4.90,4.90); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.45 \text{ mho/m} \ \epsilon_r = 38.2 \ \rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.189 mW/g, SAR (10g): 0.115 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0 Penetration depth: 11.2 (10.5, 12.0) [mm]

Powerdrift: -0.01 dB



 $SAR_{Tot} [mW/g]$ 1.80E-1 1.71E-1 1.62E-1 1.53E-1 1.44E-1 1.35E-1 1.26E-1 1.17E-1 1.08E-1 9.90E-2 9.00E-2 8.10E-2 7.20E-2 6.30E-2 5.40E-2 4.50E-2 3.60E-2 2.70E-2 1.80E-2 9.00E-3

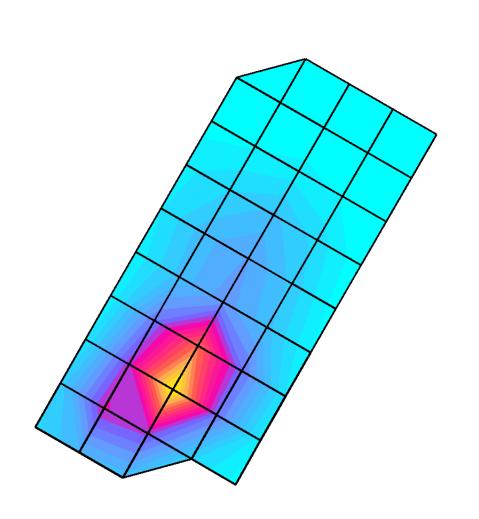
Ch# 661 / Pwr Step: 0 / Antenna Position: FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): CHEEK R1 TP-1154 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 1880 MHz

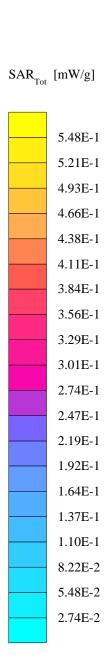
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(4.90,4.90,4.90); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.45 \text{ mho/m} \ \epsilon_r = 38.2 \ \rho = 1.00 \ \text{g/cm}^3$

Cube 7x7x7: SAR (1g): 0.555 mW/g, SAR (10g): 0.296 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0Penetration depth: 9.3 (8.7, 10.4) [mm]

Powerdrift: -0.01 dB





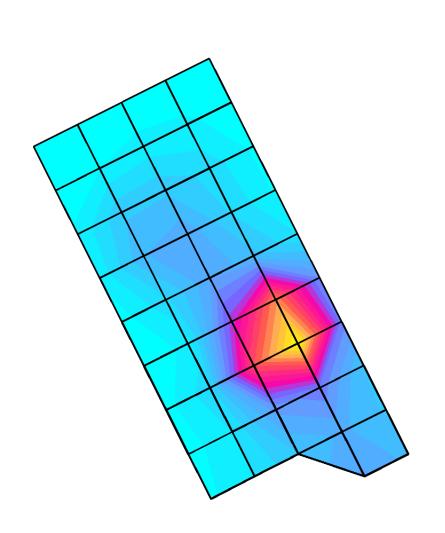
Ch# 661 / Pwr Step: 0 / Antenna Position: FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): CHEEK R1 TP-1154 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 1880 MHz

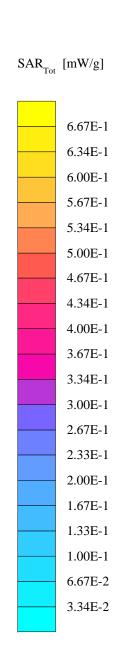
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(4.90,4.90,4.90); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.45 \text{ mho/m} \ \epsilon_r = 38.2 \ \rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.696 mW/g, SAR (10g): 0.370 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0 Penetration depth: 9.4 (8.9, 10.3) [mm]

Powerdrift: -0.09 dB





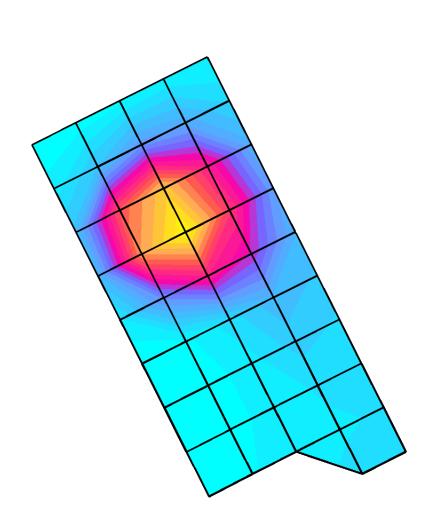
Ch# 661 / Pwr Step: 0 / Antenna Position: FIXED / Battery Model #: SNN5704A / DEVICE POSITION (cheek or rotated): TILTED R1 TP-1154 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 1880 MHz

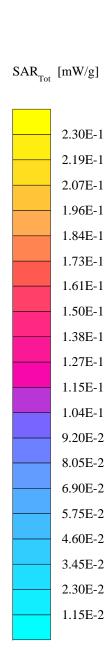
Probe: ET3DV6R - SN1506 - IEEE Head; ConvF(4.90,4.90,4.90); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.45 \text{ mho/m} \ \epsilon_r = 38.2 \ \rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.240 mW/g, SAR (10g): 0.146 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0Penetration depth: 11.2 (10.4, 12.2) [mm]

Powerdrift: -0.05 dB





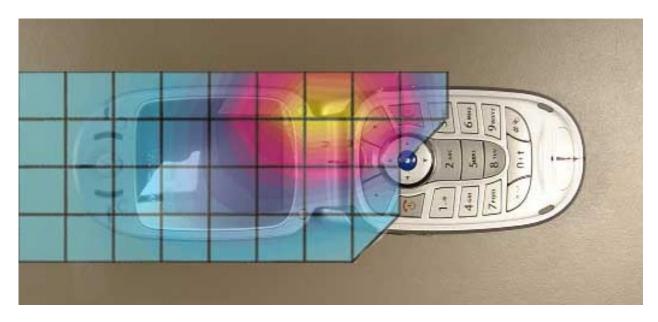


Figure 1.Typical 850MHz Right Head Adjacent Contour Overlaid on Phone with Antenna Fixed (Cheek Touch)

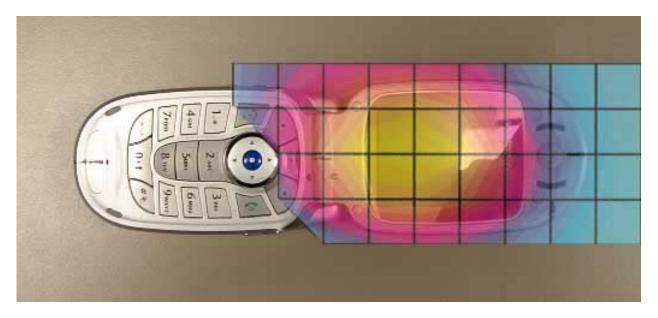


Figure 2.Typical 850MHz Left Head Adjacent Contour Overlaid on Phone with Antenna Fixed (15° Tilt)

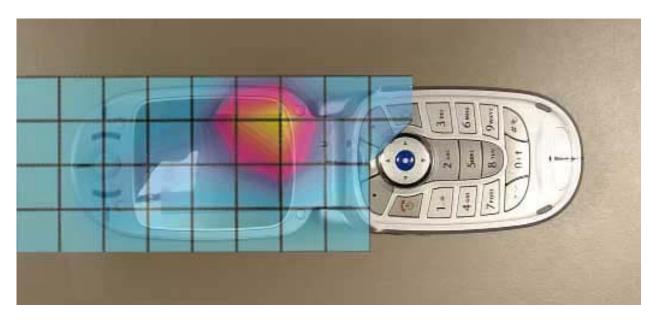


Figure 3.Typical 1900MHz Right Head Adjacent Contour Overlaid on Phone with Antenna Fixed (Cheek Touch)

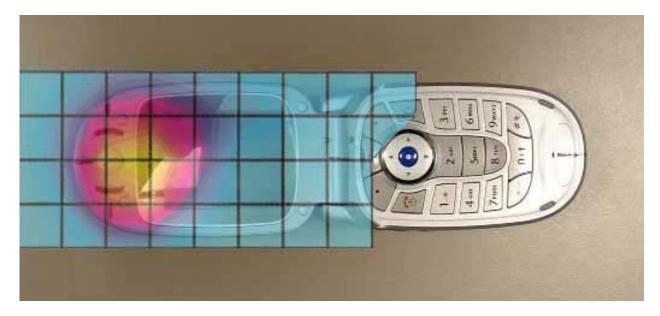


Figure 4.Typical 1900MHz Right Head Adjacent Contour Overlaid on Phone with Antenna Fixed (15° Tilt)

Appendix 3

FCC ID: IHDT56DR1

SAR distribution plots for Body Worn Configuration

Ch# 190 / Pwr Step: 05 (OTA) / Antenna Position: FIXED / Battery Model #: SNN5704A / Accessory Model #: EVA Pouch

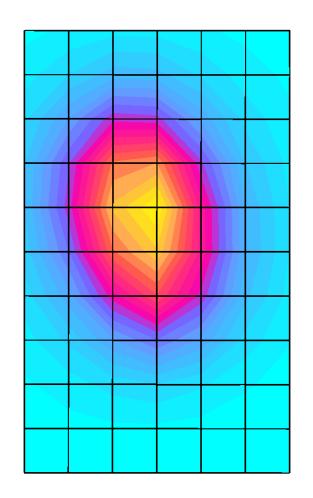
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 1 Section; Position: (0°,0°); Frequency: 837 MHz

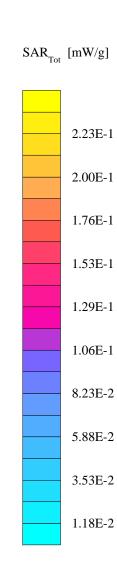
Probe: ET3DV6R - SN1501 - FCC Body; ConvF(6.10,6.10,6.10); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.96$ mho/m $\epsilon_r = 54.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.231 mW/g, SAR (10g): 0.158 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 15.0 (13.7, 16.5) [mm]

Powerdrift: -0.29 dB





Ch# 190 / Pwr Step: 05 (OTA) / Antenna Position: FIXED / Battery Model #: SNN5704A / Accessory Model #: EVA Pouch + GPRS

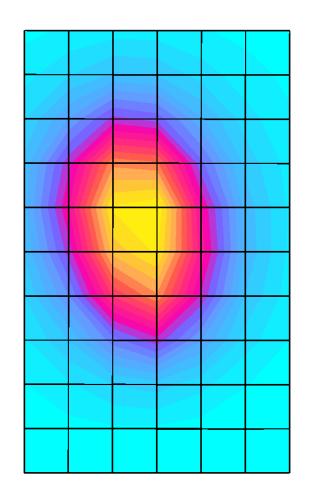
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 1 Section; Position: (0°,0°); Frequency: 837 MHz

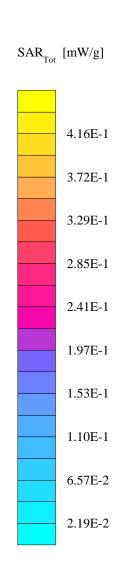
Probe: ET3DV6R - SN1501 - FCC Body; ConvF(6.10,6.10,6.10); Crest factor: 4.0; 835 MHz Head & Body: $\sigma = 0.96$ mho/m $\epsilon_r = 54.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.445 mW/g, SAR (10g): 0.307 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0 Penetration depth: 15.3 (14.1, 16.8) [mm]

Powerdrift: -0.47 dB





 $Ch\#\ 190\ /\ Pwr\ Step:\ 05\ (OTA)\ Antenna\ Position:\ FIXED\ /\ Battery\ Model\ \#:\ SNN5704A\ /\ Accessory\ Model\ \#:\ EVA\ Pouch\ w\ Bluetooth\ Antenna\ Position:\ FIXED\ /\ Battery\ Model\ \#:\ SNN5704A\ /\ Accessory\ Model\ \#:\ EVA\ Pouch\ w\ Bluetooth\ Antenna\ Position:\ FIXED\ /\ Battery\ Model\ \#:\ SNN5704A\ /\ Accessory\ Model\ \#:\ EVA\ Pouch\ w\ Bluetooth\ Antenna\ Position:\ FIXED\ /\ Battery\ Model\ \#:\ Bull\ Model\ FIXED\ /\ Battery\ Model\ Model\ Model\ Model\ FIXED\ /\ Battery\ Model\ Mode$

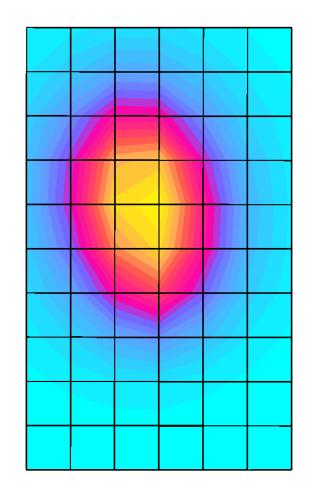
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 1 Section; Position: (0°,0°); Frequency: 837 MHz

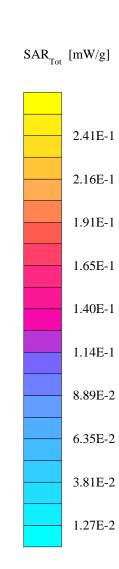
Probe: ET3DV6R - SN1501 - FCC Body; ConvF(6.10,6.10,6.10); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.97$ mho/m $\epsilon_r = 54.4$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.259 mW/g, SAR (10g): 0.179 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0 Penetration depth: 15.7 (14.5, 17.1) [mm]

Powerdrift: -0.28 dB





Ch# 661 / Pwr Step: 00 (OTA) / Antenna Position: FIXED / Battery Model #: SNN5704A

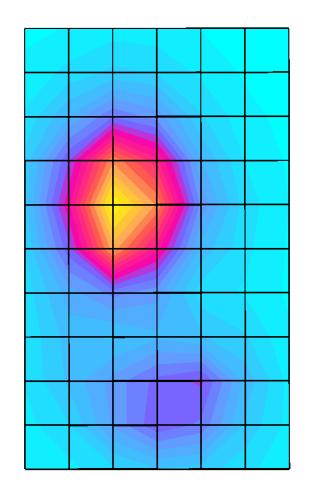
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (0°,0°); Frequency: 1880 MHz

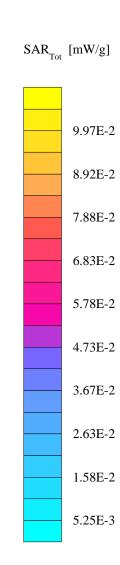
Probe: ET3DV6R - SN1501 - FCC Body; ConvF(4.60,4.60,4.60); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.57$ mho/m $\epsilon_r = 52.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.107 mW/g, SAR (10g): 0.0648 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0 Penetration depth: 10.6 (9.6, 11.9) [mm]

Powerdrift: -0.05 dB





 $Ch\#\ 661\ /\ Pwr\ Step:\ 00\ \ (OTA)\ /\ Antenna\ Position:\ FIXED\ /\ Battery\ Model\ \#:\ SNN5704A\ /\ Accessory\ Model\ \#:\ EVA\ Pouch\ +\ GPRS$

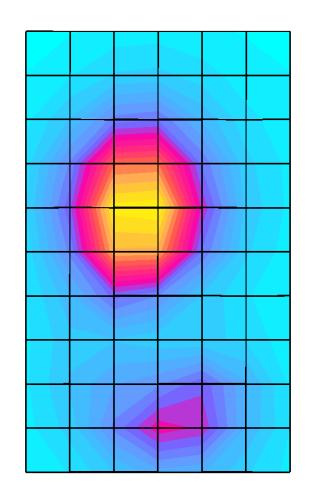
R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (0°,0°); Frequency: 1880 MHz

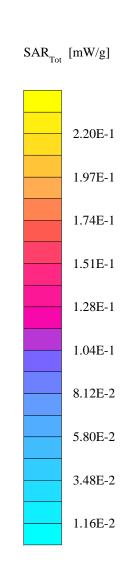
Probe: ET3DV6R - SN1501 - FCC Body; ConvF(4.60,4.60,4.60); Crest factor: 4.0; 1880 MHz Head & Body: $\sigma = 1.57$ mho/m $\epsilon_r = 52.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.251 mW/g, SAR (10g): 0.153 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 10.7 (9.6, 12.3) [mm]

Powerdrift: -0.07 dB





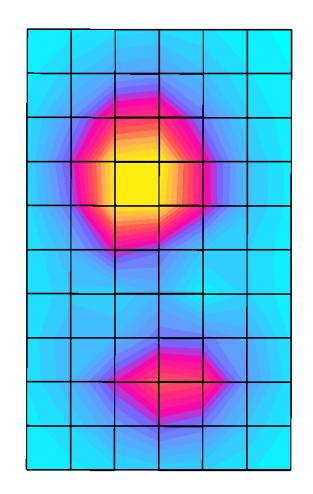
Ch# 661 / Pwr Step: 00 (OTA) / Antenna Position: FIXED / Battery Model #: SNN5704A / Accessory Model #: EVA Pouch Bluetooth Mode R5 Amy Twin Phantom Rev.4 (22Aug02) Phantom; section 2 Section; Position: (0°,0°); Frequency: 1880 MHz

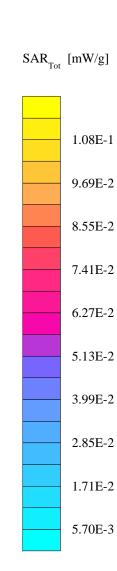
Probe: ET3DV6R - SN1501 - FCC Body; ConvF(4.60,4.60,4.60); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.59$ mho/m $\epsilon_r = 52.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.128 mW/g, SAR (10g): 0.0777 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0Penetration depth: 10.6 (9.7, 11.9) [mm]

Powerdrift: -0.05 dB





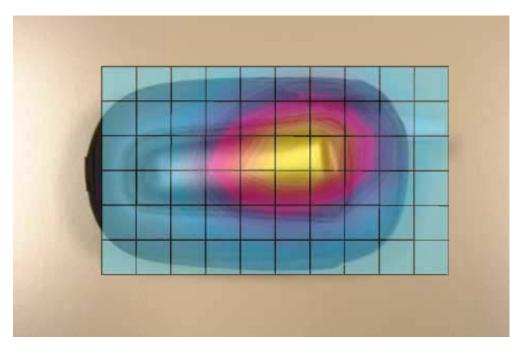


Figure 5. Typical 850 MHz Body-Worn Contour Overlaid on Phone with Antenna Fixed

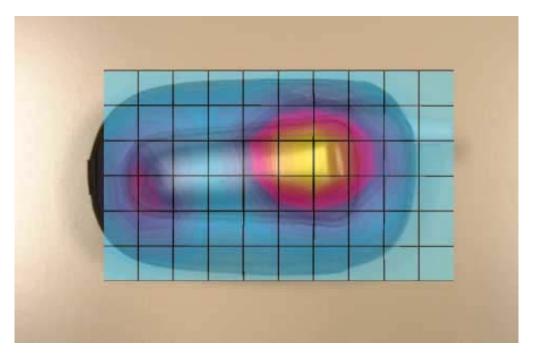


Figure 6. Typical 1900 MHz Body-Worn Contour Overlaid on Phone with Antenna Fixed

Appendix 4

FCC ID: IHDT56DR1

Probe Calibration Certificate

Calibration Laboratory of

Schmid & Partner

Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Client

Motorola MRO

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80	0000	37 6	38 38	72 . 3		a	411	2, 200	322	3 323	8 3 5	33	m 200	33	X	un:	226	2	3 %	200200	2 2 3	200 Z	//	w.
7/2	2 700	ž	9 30	<i>1</i> 2 3	2000	3 24	W .	100	202	Z 49	0 %	a. 63		3 700	the the	w.	2000	2 800	ž 8.	400.2		W 8	26 W	220

Object(s)

ET3DV6R - SN:1501

Calibration procedure(s)

QA CAL-01.v2

Calibration procedure for dosimetric E-field probes

Calibration date:

April 16, 2003

Condition of the calibrated item

In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 international standard.

All calibrations have been conducted in the closed laboratory facility: environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Model Type	ID#	Cal Date	Scheduled Calibration
RF generator HP 8684C	US3642U01700	4-Aug-99 (in house check Aug-02)	In house check: Aug-05
Power sensor E4412A	MY41495277	2-Apr-03	Apr-04
Power sensor HP 8481A	MY41092180	18-Sep-02	Sep-03
Power meter EPM E4419B	GB41293874	13-Sep-02	Sep-03
Network Analyzer HP 8753E	US38432426	3-May-00	In house check: May 03
Fluke Process Calibrator Type 702	SN: 6295803	3-Sep-01	Sep-03
t e e e e e e e e e e e e e e e e e e e			

Calibrated by:

Name Function Signature
Nico Vetterii Technician Dividati

Approved by:

Katja Pokovic Laboratory Director May - Watje

Date issued: April 16, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

880-KP0301061-A Page 1 (1)

2.55

DASY - Parameters of Probe: ET3DV6R SN:1501

Sensitivity in Free Space

Diode Compression

Depth

NormX	2.08 μV/(V/m) ²	DCP X	96	mV
NormY	2.09 μV/(V/m) ²	DCP Y	96	mV
NormZ	2.14 μV/(V/m) ²	DCP Z	96	mV

Sensitivity in Tissue Simulating Liquid

ConvF Z **5.0** \pm 9.5% (k=2)

Head	900 MHz		ϵ_r = 41.5 ± 5%	σ=	0.97 ± 5% n	nho/m
Valid for f=	800-1000 MHz with I	lead T	issue Simulating Liquid accor	rding to	EEE P1528	-200X
	ConvF X	6.4	± 9.5% (k=2)		Boundary e	ffect:
	ConvF Y	6.4	± 9.5% (k=2)		Alpha	0.39
	ConvF Z	6.4	± 9.5% (k=2)		Depth	2.31
Head	1800 M Hz		ϵ_r = 40.0 ± 5%	σ=	1.40 ± 5% n	nho/m
Valid for f=	1710-1910 MHz with	Head	Tissue Simulating Liquid acco	ording	to IEEE P152	8-200X
	ConvF X	5.0	± 9.5% (k=2)		Boundary e	ffect:
	ConvF Y	5.0	± 9.5% (k=2)		Alpha	0.49

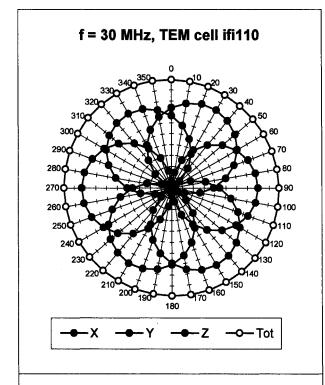
Boundary Effect

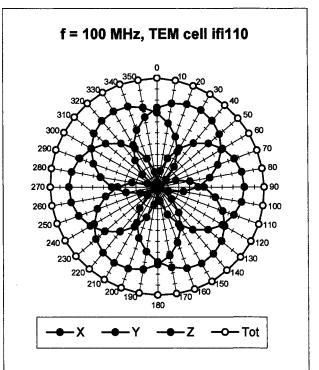
Head	900 MHz Typical SAR gradi	ent: 5 % per mm	
	Probe Tip to Boundary	1 mm	2 mm
	SAR _{be} [%] Without Correction Algorithm	8.9	4.9
	SAR _{be} [%] With Correction Algorithm	0.3	0.5
Head	1800 MHz Typical SAR gradi	ent: 10 % per mm	
	Probe Tip to Boundary	1 mm	2 mm
	SAR _{be} [%] Without Correction Algorithm	12.8	8.6
	SAR _{be} [%] With Correction Algorithm	0.2	0.2

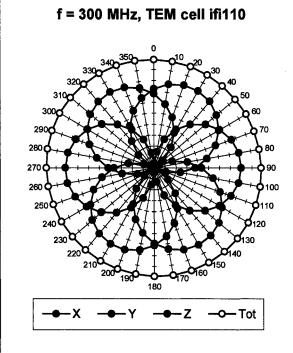
Sensor Offset

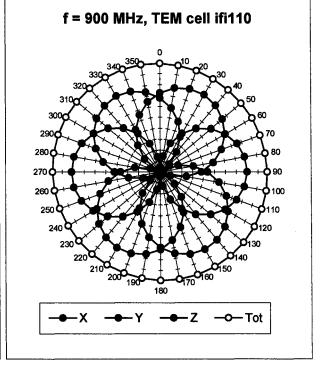
Probe Tip to Sensor Center 2.7 mm

Receiving Pattern (ϕ , θ = 0°

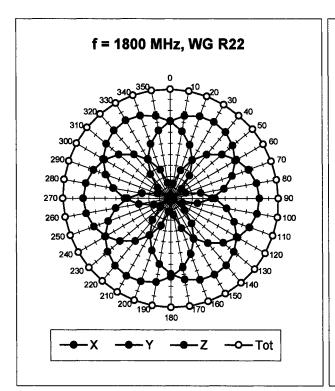


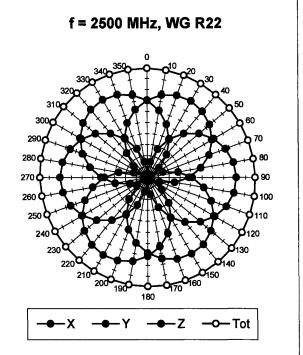




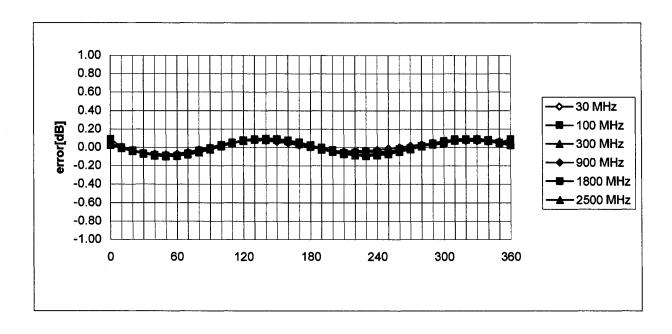


ET3DV6R SN:1501 April 16, 2003



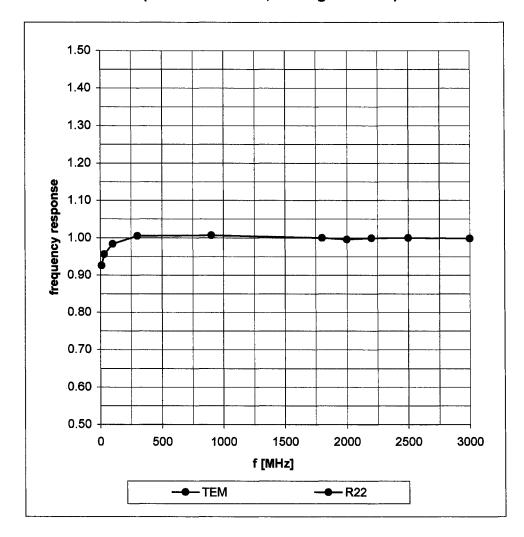


Isotropy Error (ϕ), θ = 0°



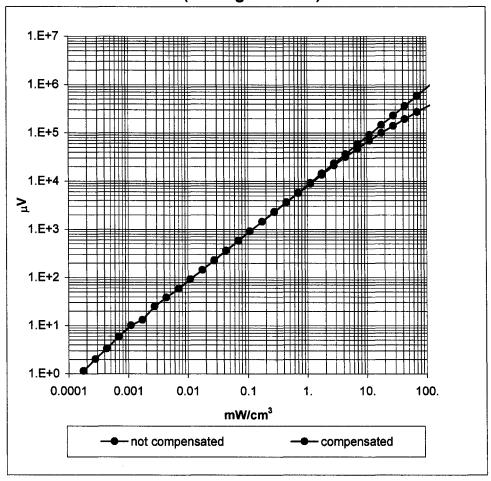
Frequency Response of E-Field

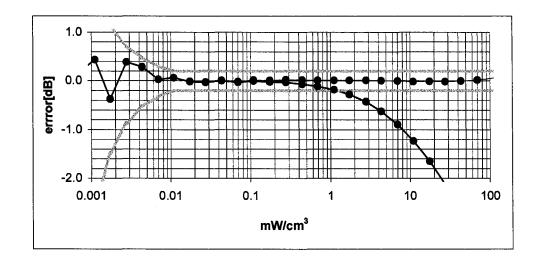
(TEM-Cell:ifi110, Waveguide R22)

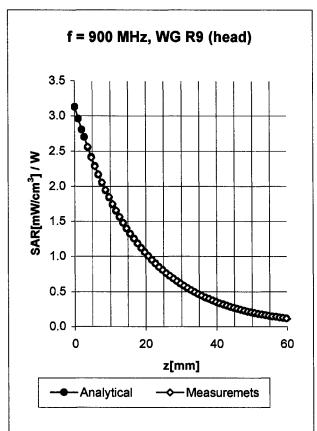


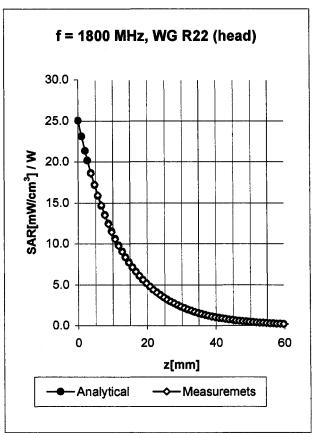
Dynamic Range f(SAR_{brain})

(Waveguide R22)









Head

900 MHz

 $\varepsilon_{\rm r} = 41.5 \pm 5\%$

 σ = 0.97 ± 5% mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to IEEE P1528-200X

ConvF X

6.4 \pm 9.5% (k=2)

Boundary effect:

ConvF Y

6.4 \pm 9.5% (k=2)

Alpha

0.39

ConvF Z

6.4 \pm 9.5% (k=2)

Depth

2.31

Head

1800 MHz

 $\epsilon_{\rm r}$ = 40.0 ± 5%

 σ = 1.40 ± 5% mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to IEEE P1528-200X

ConvF X

5.0 \pm 9.5% (k=2)

Boundary effect:

ConvF Y

5.0 \pm 9.5% (k=2)

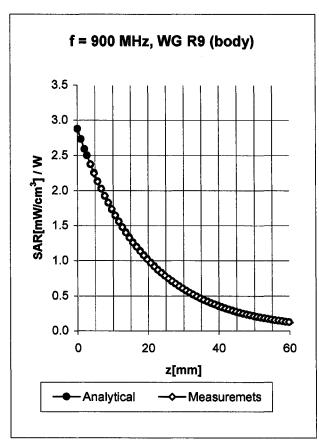
Alpha

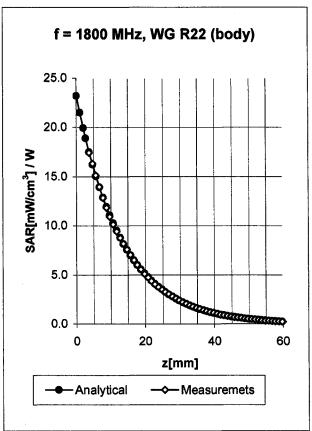
0.49

ConvF Z

5.0 \pm 9.5% (k=2)

Depth





Body

900 MHz

 $\epsilon_{\rm r}$ = 55.0 ± 5%

 $\sigma = 1.05 \pm 5\% \text{ mho/m}$

Valid for f=800-1000 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X

6.1 \pm 9.5% (k=2)

Boundary effect:

ConvF Y

6.1 \pm 9.5% (k=2)

Boardary oncot.

ConvF Z

6.1 ± 9.5% (k=2)

Alpha Depth 0.402.37

Body

1800 MHz

 $\varepsilon_{\rm r}$ = 53.3 ± 5%

 σ = 1.52 ± 5% mho/m

Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X

4.6 \pm 9.5% (k=2)

Boundary effect:

ConvF Y

4.6 \pm 9.5% (k=2)

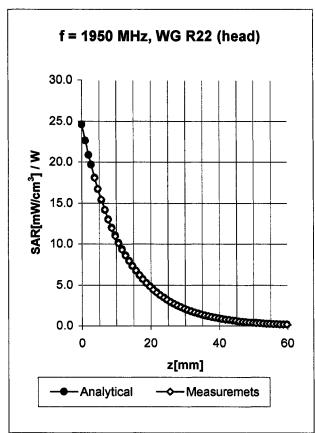
Alpha

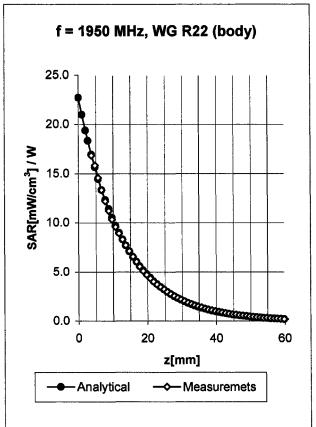
0.55

ConvF Z

4.6 \pm 9.5% (k=2)

Depth

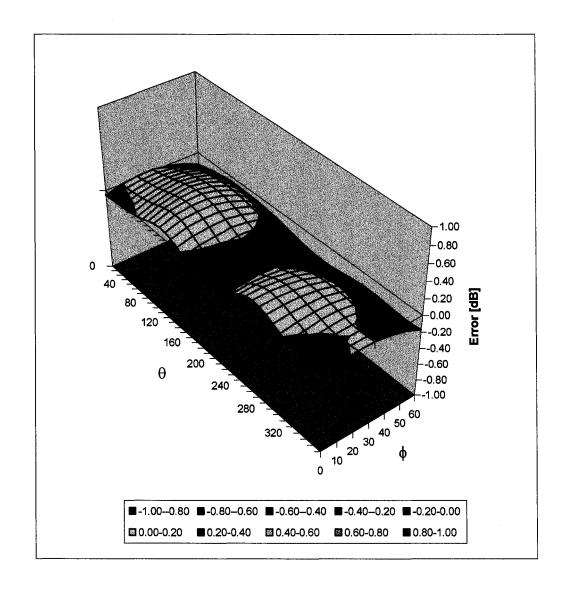




Head	1950	MHz	$\varepsilon_{\rm r}$ = 40.0 ± 5%	σ = 1.40 ± 5% mh	o/m
	ConvF X	4.7	± 8.9% (k=2)	Boundary effe	ct:
	ConvF Y	4.7	± 8.9% (k=2)	Alpha	0.53
	ConvF Z	4.7	± 8.9% (k=2)	Depth	2.53
Body	1950	MHz	$\varepsilon_{\rm r}$ = 53.3 ± 5%	ਰ = 1.52 ± 5% m h	o/m
	ConvF X	4.2	± 8.9% (k=2)	Boundary effe	ect:
	ConvF Y	4.2	± 8.9% (k=2)	Alpha	0.70
	ConvF Z	4.2	± 8.9% (k=2)	Depth	2.26

Deviation from Isotropy in HSL

Error ($\theta \phi$), f = 900 MHz



Calibration Laboratory of

Schmid & Partner

Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Client

Motorola MRO

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ž	ä	700 7	7112	यु %	20 S	6339	ã m	w.	72 W	926	8 ACC	28 3		480	3888	822	-	##	8 553			O22 3	: 22	3300

Object(s)

ET3DV6R - SN 1506

Calibration procedure(s)

QA CAL-01 v2

Calibration procedure for dosimetric E-field probes

Calibration date:

May 14, 2003

Condition of the calibrated item

In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 international standard.

All calibrations have been conducted in the closed laboratory facility: environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Model Type	ID#	Caf Date (Calibrated by, Certificate No.)	Scheduled Calibration
RF generator HP 8684C	US3642U01700	4-Aug-99 (SPEAG, in house check Aug-02)	In house check: Aug-05
Power sensor E4412A	MY41495277	2-Apr-03 (METAS, No 252-0250)	Apr-04
Power sensor HP 8481A	MY41092180	18-Sep-02 (Agilent, No. 20020918)	Sep-03
Power meter EPM E4419B	GB41293874	2-Apr-03 (METAS, No 252-0250)	Apr-04
Network Analyzer HP 8753E	US38432426	3-May-00 (Agilent, No. 8702K064602)	In house check: May 03
Fluke Process Calibrator Type 702	SN: 6295803	3-Sep-01 (ELCAL, No.2360)	Sep-03

Calibrated by:

Name Function Signature
Nice Vetterii Technician

Approved by:

Katje Pokovic Laboratory Director

Date issued: May 15, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779 info@speag.com, http://www.speag.com

Probe ET3DV6R

SN:1506

Manufactured:

October 24, 1999

Last calibration:

May 3, 2002

Recalibrated:

May 14, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

ET3DV6R SN:1506 May 14, 2003

DASY - Parameters of Probe: ET3DV6R SN:1506

Sensitivity in Free Space

Diode Compression

NormX	2.22 μV/(V/m) ²	DCP X	97	mV
NormY	2.04 μV/(V/m) ²	DCP Y	97	mV
NormZ	1.22 μV/(V/m) ²	DCP Z	97	mV

Sensitivity in Tissue Simulating Liquid

Head

900 MHz

 ε_r = 41.5 ± 5%

 σ = 0.97 ± 5% mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X

6.1 \pm 9.5% (k=2)

Boundary effect:

ConvF Y

6.1 ± 9.5% (k=2)

Alpha

0.60

ConvF Z

6.1 ± 9.5% (k=2)

Depth

2.02

Head

1800 MHz

 ε_r = 40.0 ± 5%

 σ = 1.40 ± 5% mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X

4.9 \pm 9.5% (k=2)

Boundary effect:

ConvF Y

4.9 \pm 9.5% (k=2)

Alpha

0.61

ConvF Z

4.9 \pm 9.5% (k=2)

Depth

2.37

Boundary Effect

Typical SAR gradient: 5 % per mm

Probe Tip to E	Boundary	1 mm	2 mm
SAR _{be} [%]	Without Correction Algorithm	11.0	5.7
SAR _{be} [%]	With Correction Algorithm	0.3	0.5

Head 1800 MHz Typical SAR gradient: 10 % per mm

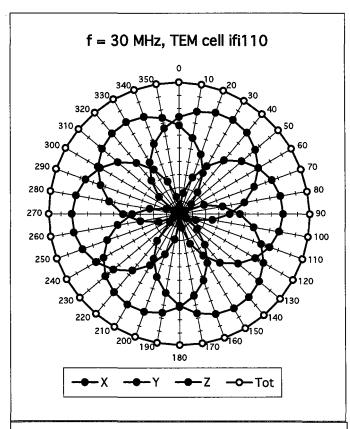
Probe Tip to	Boundary	1 mm	2 mm
SAR _{be} [%]	Without Correction Algorithm	14.6	9.3
SAR _{be} [%]	With Correction Algorithm	0.1	0.2

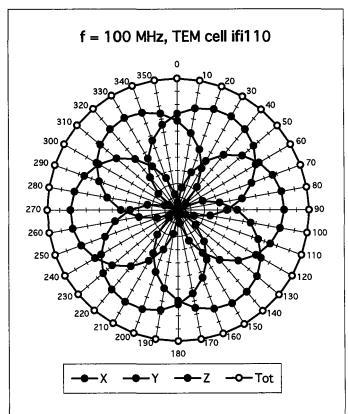
Sensor Offset

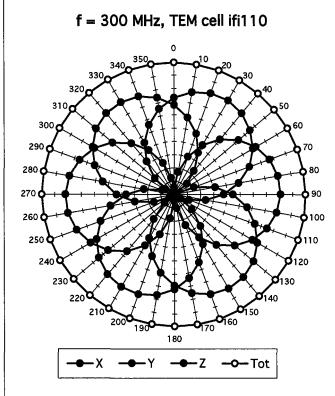
Probe Tip to Sensor Center 2.7 mm

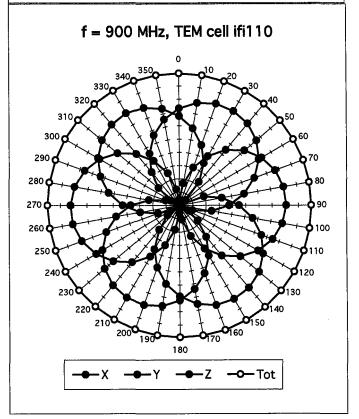
Optical Surface Detection mm

Receiving Pattern (ϕ), $\theta = 0^{\circ}$

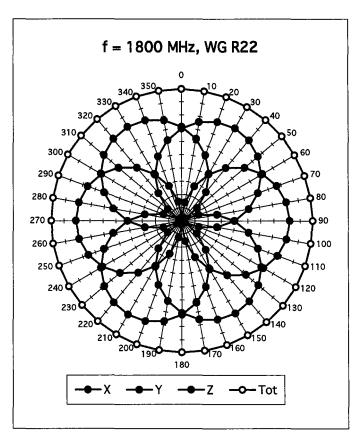


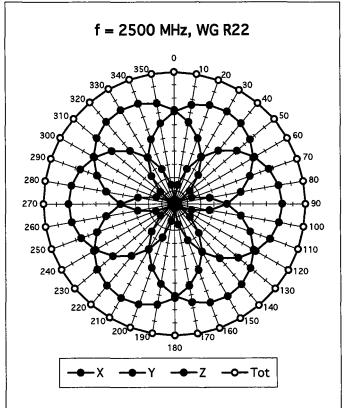




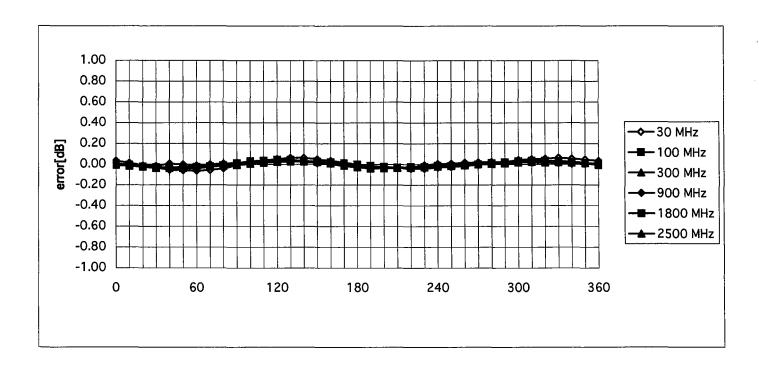


ET3DV6R SN:1506 May 14, 2003



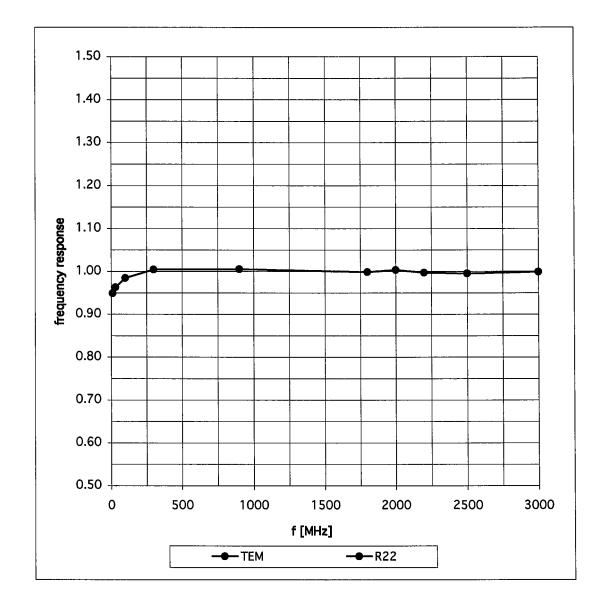


Isotropy Error (ϕ), $\theta = 0^{\circ}$



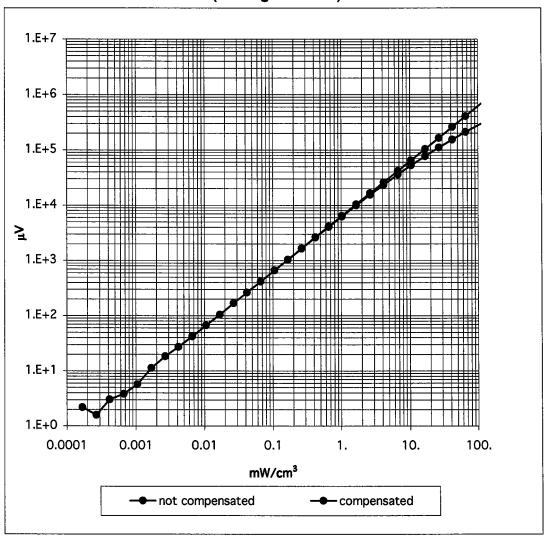
Frequency Response of E-Field

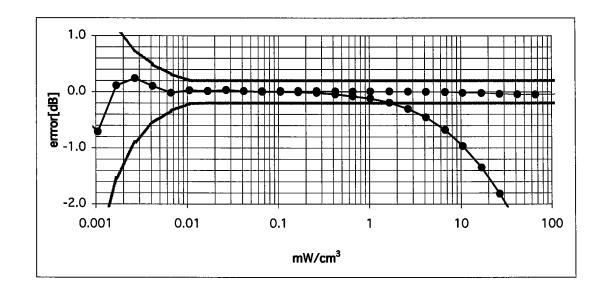
(TEM-Cell:ifi110, Waveguide R22)

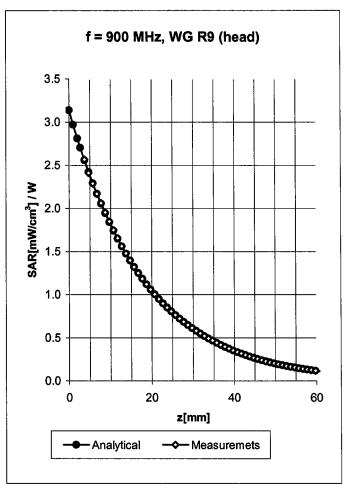


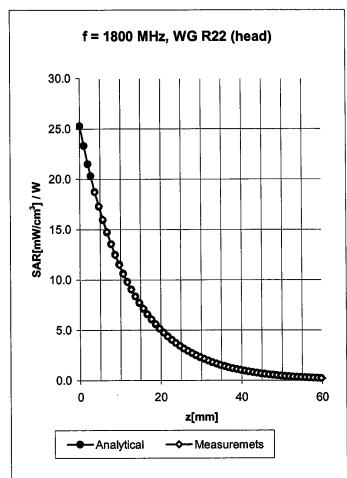
Dynamic Range f(SAR_{brain})

(Waveguide R22)









Head

900 MHz

 ε_r = 41.5 ± 5%

 σ = 0.97 ± 5% mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X

 $6.1 \pm 9.5\% (k=2)$

Boundary effect:

ConvF Y

 $6.1 \pm 9.5\% (k=2)$

Alpha

0.60

ConvF Z

6.1 \pm 9.5% (k=2)

Depth

2.02

Head

1800 MHz

 ε_r = 40.0 ± 5%

 σ = 1.40 ± 5% mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X

4.9 $\pm 9.5\%$ (k=2)

Boundary effect:

ConvF Y

4.9 \pm 9.5% (k=2)

Alpha

0.61

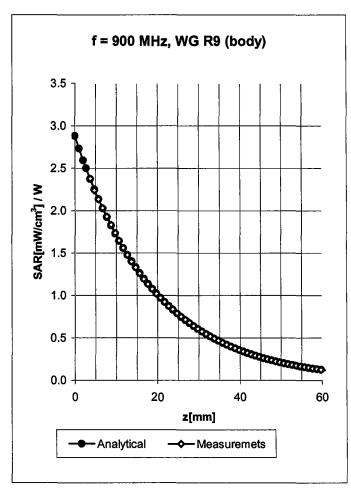
ConvF Z

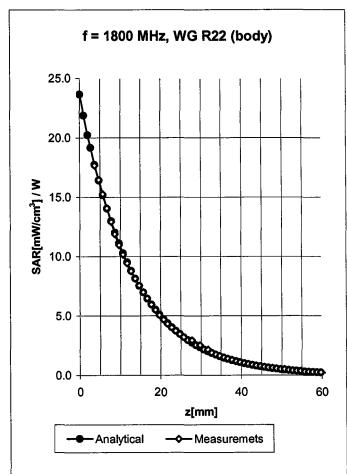
4.9 $\pm 9.5\%$ (k=2)

Depth

ET3DV6R SN:1506 May 14, 2003

Conversion Factor Assessment





Body

900 MHz

 ε_r = 55.0 ± 5%

 $\sigma = 1.05 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X

 $5.8 \pm 9.5\%$ (k=2)

Boundary effect:

ConvF Y

 $5.8 \pm 9.5\% (k=2)$

Alpha

0.53

ConvF Z

 $5.8 \pm 9.5\% (k=2)$

Depth

2.24

Body

1800 MHz

 $\varepsilon_r = 53.3 \pm 5\%$

 σ = 1.52 ± 5% mho/m

Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X

 $4.5 \pm 9.5\%$ (k=2)

Boundary effect:

ConvF Y

4.5 \pm 9.5% (k=2)

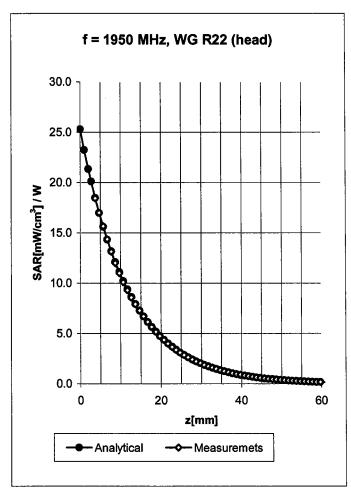
Alpha

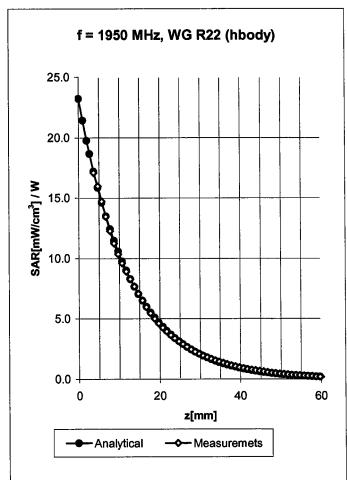
0.69

ConvF Z

4.5 $\pm 9.5\%$ (k=2)

Depth





Head

1950 MHz

 $\varepsilon_{\rm r}$ = 40.0 ± 5%

 $\sigma = 1.40 \pm 5\%$ mho/m

Valid for f=1910-2100 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X

 $4.6 \pm 8.9\% (k=2)$

Boundary effect:

ConvF Y

4.6 \pm 8.9% (k=2)

Alpha

0.62

ConvF Z

4.6 \pm 8.9% (k=2)

Depth

2.45

Body

1950 MHz

 ε_r = 53.3 ± 5%

 $\sigma = 1.52 \pm 5\%$ mho/m

Valid for f=1910-2100 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X

4.3 \pm 8.9% (k=2)

Boundary effect:

ConvF Y

4.3 \pm 8.9% (k=2)

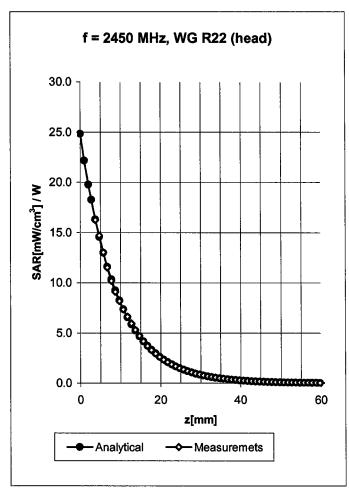
Alpha

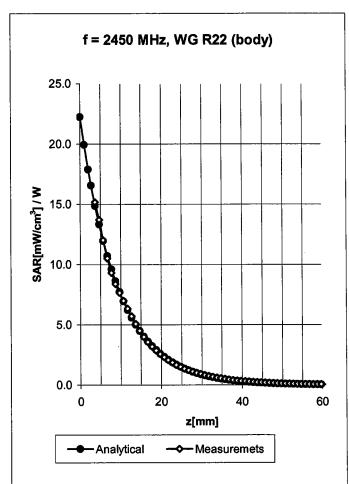
0.85

ConvF Z

4.3 $\pm 8.9\%$ (k=2)

Depth





Head

2450

MHz

 $\varepsilon_{\rm r}$ = 39.2 ± 5%

 $\sigma = 1.80 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X

4.5 $\pm 8.9\%$ (k=2)

Boundary effect:

ConvF Y

 $4.5 \pm 8.9\% (k=2)$

Alpha

1.22

ConvF Z

 $4.5 \pm 8.9\% (k=2)$

Depth

1.73

Body

2450

MHz

 $\varepsilon_r = 52.7 \pm 5\%$

 σ = 1.95 ± 5% mho/m

Valid for f=2400-2500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X

4.2 ± 8.9% (k=2)

Boundary effect:

ConvF Y

4.2 $\pm 8.9\%$ (k=2)

Alpha

1.90

ConvF Z

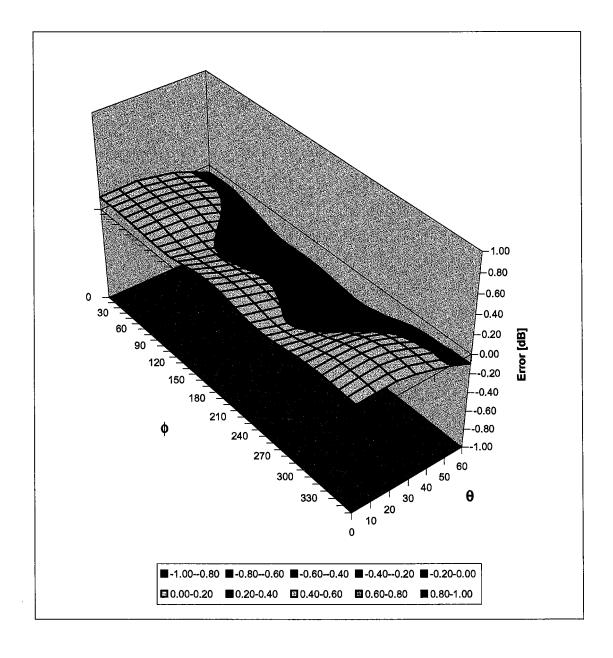
4.2 $\pm 8.9\%$ (k=2)

Depth

ET3DV6R SN:1506 May 14, 2003

Deviation from Isotropy in HSL

Error (θ,ϕ) , f = 900 MHz



Appendix 5

FCC ID: IHDT56DR1

Dipole Characterization Certificate

Certification of System Performance Check Targets Based on APP-0396

-Historical Data-

	835MHz	900MHz	1800MHz	1900MHz	
P1528 Target: Advanced Extrapolation	9.5	10.8	38.1	39.7	(W/kg)
Measurement Uncertainty (k=1):	10.2%	10.2%	10.2%	10.2%	
Measurement Period:	November '02 - June '03	November '02 - June '03	November '02 - June '03	November '02 - June '03	-
# of tests performed:	169	728	868	26	
Grand Average: Worst Case Extrapolation	10.1	11.6	39.7	42.0	(W/kg)
% Delta (Average - P1528 Target)	6.5%	7.7%	4.2%	5.9%	
Is % Delta <= Measurement Uncertainty?	Yes	Yes	Yes	Yes	
Accept/Reject <u>Average</u> as new system performance check target?	ACCEPT	ACCEPT	ACCEPT	ACCEPT	
	Applicable 835MHz Dipole Serial Numbers:	Applicable <u>900MHz</u> Dipole Serial Numbers:	Applicable <u>1800MHz</u> Dipole Serial Numbers:	Applicable <u>1900Mhz</u> Dipole Serial Numbers:	
	420(TR), 421(TR)	77, 78	246(TR), 250(TR)	514(TR), 518(TR)	
	422(TR), 423(TR)	79, 80	251(TR), 258(TR)	519(TR), 520(TR)	
	424(TR), 425(TR)	91, 92	259(TR), 262(TR)	523(TR), 524(TR)	
	431(TR), 432(TR) 433(TR), 434(TR)	93, 94 95, 96	263(TR), 271(TR) 272(TR), 273(TR)	526(TR), 527(TR) 528(TR), 529(TR)	
	436(TR)	93, 90	276(TR), 277(TR)	530(TR), 533(TR)	1
	,	•	279(TR), 280(TR)	()	1
	_	_	281(TR), 282(TR)		
			283(TR), 284(TR)]

-New System Performance Check Targets- per APP-0396

(based on analysis of historical data)

Frequency	SAR Target (W/kg)	Permittivity	Conductivity (S/m)
835MHz	10.1	41.5 ± 5%	0.90 ± 5%
900MHz	11.6	41.5 ± 5%	0.97 ± 5%
1800MHz	39.7	40.0 ± 5%	1.40 ± 5%
1900MHz	42.0	40.0 ± 5%	1.40 ± 5%

-Approvals-							
	Submitted by:	Marge Kaunas	Date:	24-Jun-03			
	Signed:	Manja Kanna					
	Comments:	spreadsheet detailing all measu	rements available upon re	quest			
<u>.</u>	Approved by:	Antonio Faraone	Date:	24-Jun-03			
	Signed:	Automo Faner-e					
	Comments:	Targets and associated simulant properties are derived from the IEEE P1528 draft standard					

Appendix 6

FCC ID: IHDT56DR1

Measurement Uncertainty Budget

FCC ID: IHDT56DR1

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

FCC ID: IHDT56DR1

Uncertainty budget for	Dysten.	i i ciic)1 111a11	cc Ch	CCIX (uipoic	C Hat	pnant	om,
				e =			h =	<i>i</i> =	
				f(d,k)			cxf/	c x g	
а	b	c	d)	f	g	e	/ e	k
		Tol.	Prob.		c_i	c_i	1 g	10 g	
		(± %)	Dist.		(1 g)	(10 g)	\boldsymbol{u}_i	\boldsymbol{u}_i	
Uncertainty Component	Sec.			Div.	, ,	, 2,	(±%)	(±%)	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	oc
Spherical Isotropy	E.2.2	9.6	R	1.73	0	0	0.0	0.0	oc
Boundary Effect	E.2.3	5.8	R	1.73	1	1	3.3	3.3	oc
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	oc
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	oc
Response Time	E.2.7	0.0	R	1.73	1	1	0.0	0.0	oc
Integration Time	E.2.8	0.0	R	1.73	1	1	0.0	0.0	oc
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	oc
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	D	1.73	1	1	2.3	2.3	
,	E.3.1	4.0	R	1./3	1	1	2.3	2.3	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1 72	0.64	0.43	1 0	1.2	
	E.3.2	5.0	K	1.73	0.04	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	
	E.3.3	10.0	K	1./3	0.04	0.43	3.7	2.3	∞
Liquid Permittivity - deviation from target values	E.3.2	10.0	R	1.73	0.6	0.49	3.5	2.8	
Liquid Permittivity -	15.5.4	10.0	1	1./3	0.0	0.47	٠.٠	2.0	∞
measurement uncertainty	E.3.3	5.0	R	1.73	0.6	0.49	1.7	1.4	
Combined Standard	15.3.3	3.0	IX.	1./3	0.0	0.47	1./	1.4	∞
Uncertainty			RSS				10.16	9.43	99999
Expanded Uncertainty									
(95% CONFIDENCE LEVEL)			k=2				19.92	18.48	

Appendix 7

FCC ID: IHDT56DR1

Photographs of the device under test















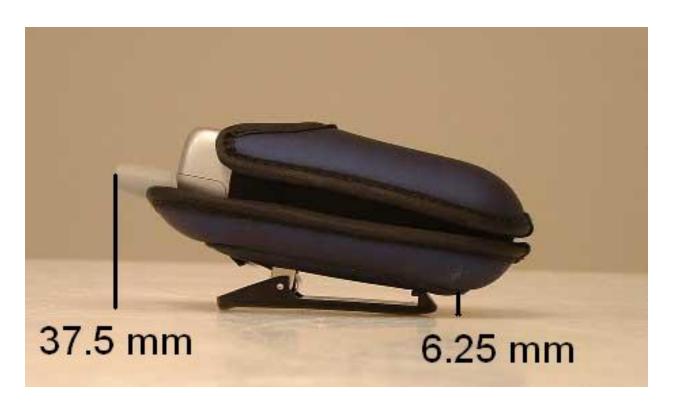


Exhibit 11

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