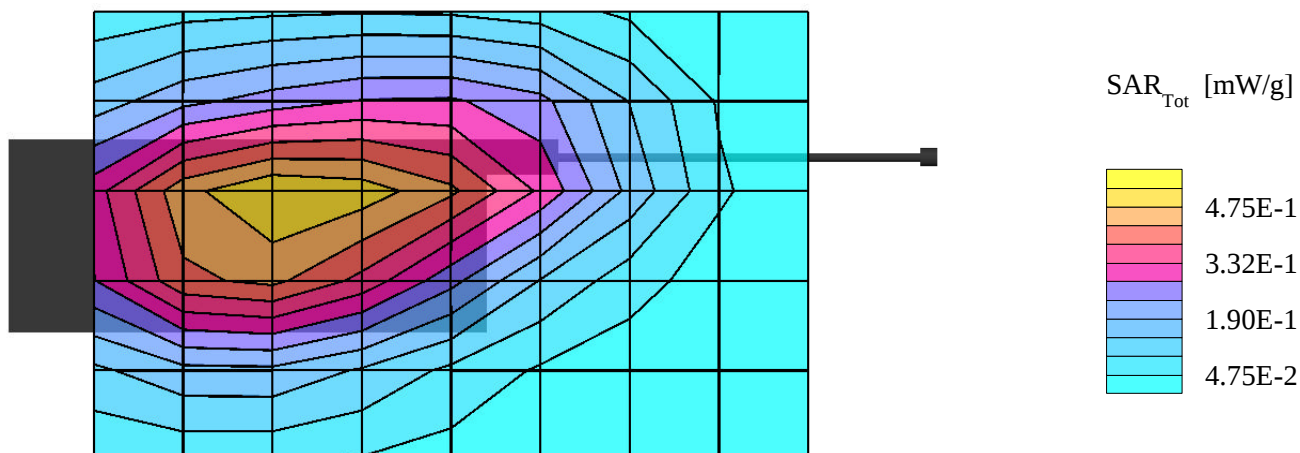


Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;
Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.506 mW/g, SAR (10g): 0.346 mW/g

Body Holster with 1.0cm Spacing
Wide Telecom Dual-Mode Single Band
Model: WSH-101
CDMA Mode - Antenna Out
Channel 1013 [824.70MHz]
Conducted Power 23.7dBm
Test Date: Nov 22, 2000



Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;

Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.487 mW/g, SAR (10g): 0.306 mW/g

Body Holster with 1.0cm Spacing
Wide Telecom Dual-Mode Single Band

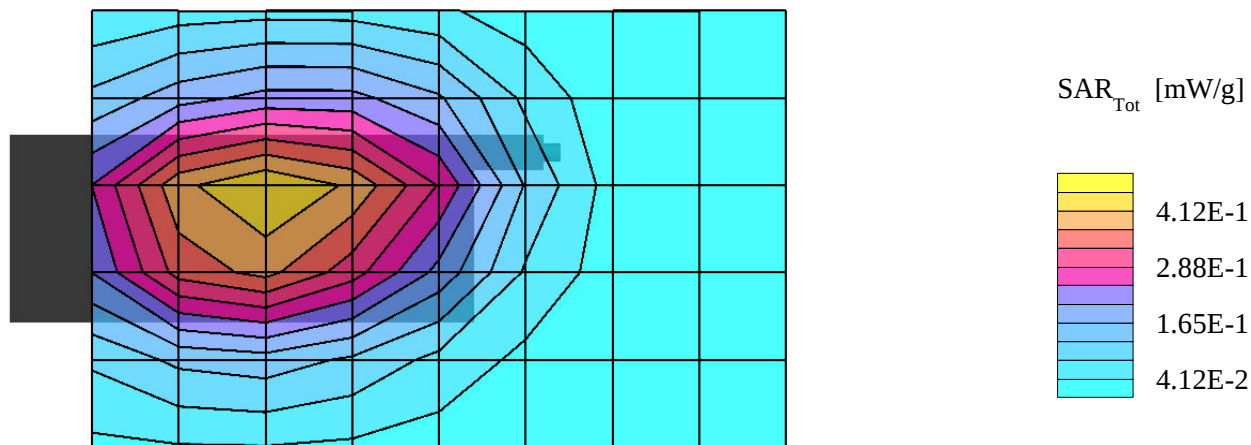
Model: WSH-101

CDMA Mode - Antenna In

Channel 363 [835.89MHz]

Conducted Power 23.7dBm

Test Date: Nov 22, 2000



Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;

Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.393 mW/g, SAR (10g): 0.268 mW/g

Body Holster with 1.0cm Spacing
Wide Telecom Dual-Mode Single Band

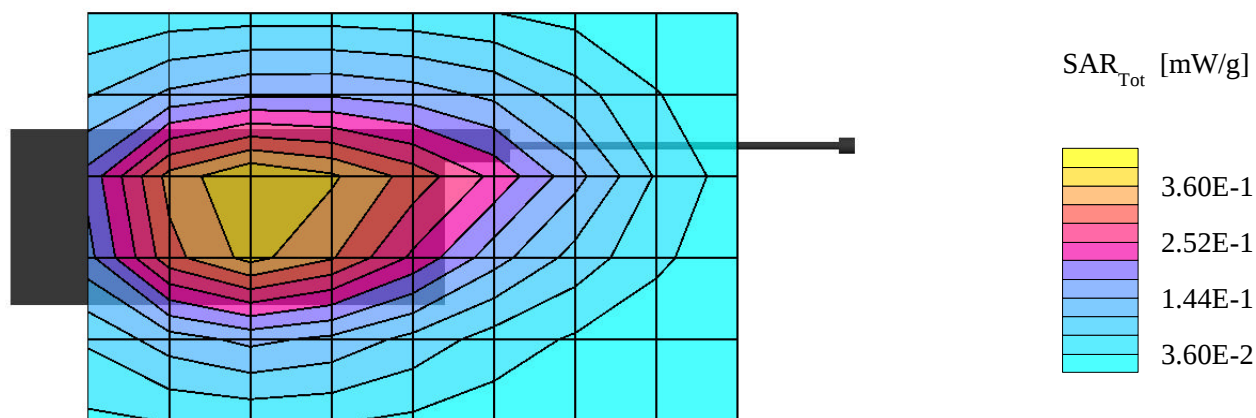
Model: WSH-101

CDMA Mode - Antenna Out

Channel 363 [835.89MHz]

Conducted Power 23.7dBm

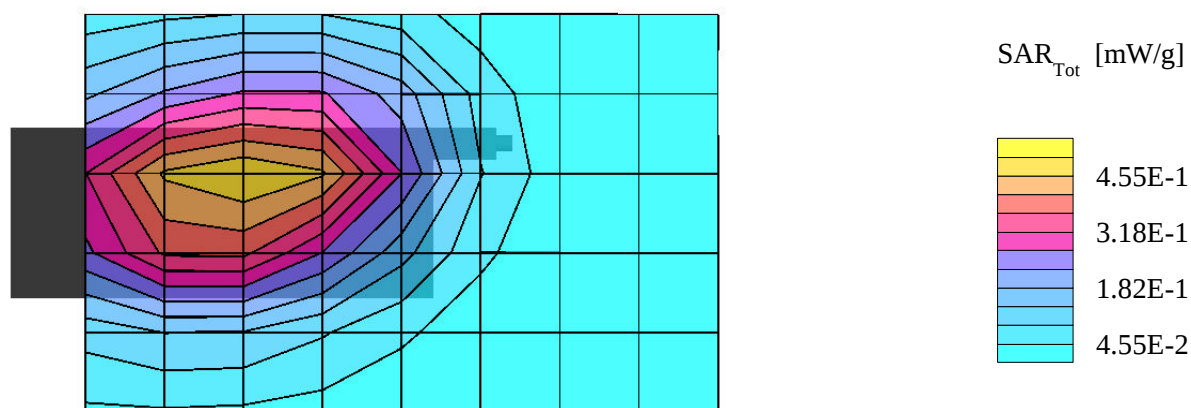
Test Date: Nov 22, 2000



Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;
Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.470 mW/g, SAR (10g): 0.316 mW/g * Max outside

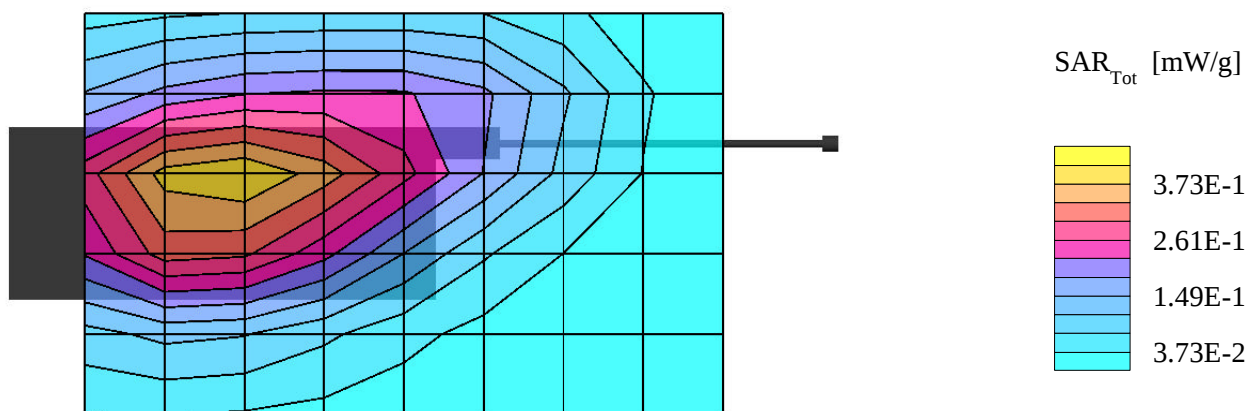
Body Holster with 1.0cm Spacing
Wide Telecom Dual-Mode Single Band
Model: WSH-101
CDMA Mode - Antenna In
Channel 777 [848.31MHz]
Conducted Power 23.6dBm
Test Date: Nov 22, 2000



Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;
Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.392 mW/g, SAR (10g): 0.265 mW/g

Body Holster with 1.0cm Spacing
Wide Telecom Dual-Mode Single Band
Model: WSH-101
CDMA Mode - Antenna Out
Channel 777 [848.31MHz]
Conducted Power 23.6dBm
Test Date: Nov 22, 2000



Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0

Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.445 mW/g, SAR (10g): 0.299 mW/g

Extended Battery

Body Holster with 1.0cm Spacing

Dual-Mode Single Band - Antenna In

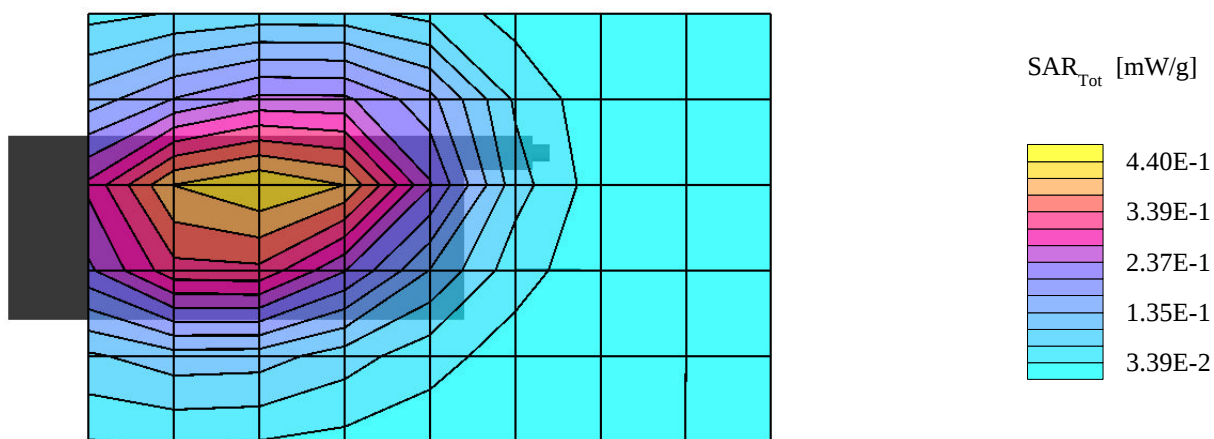
Model: WSH-101

CDMA Mode

Channel 777 [848.31MHz]

Conducted Power 23.6dBm

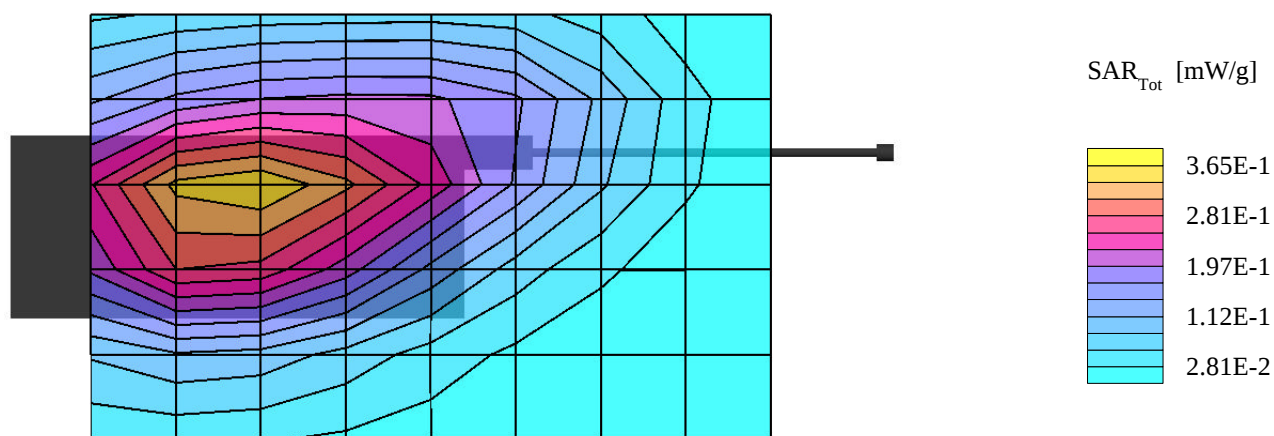
Test Date: Nov 22, 2000



Wide Telecom FCC ID: NPWWSH-101

Generic Twin Phantom; Flat Section; Position: (270°,270°)
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0
Muscle 835 MHz: $\sigma = 0.95$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.375 mW/g, SAR (10g): 0.254 mW/g

Extended Battery
Body Holster with 1.0cm Spacing
Dual-Mode Single Band - Antenna Out
Model: WSH-101
CDMA Mode
Channel 777 [848.31MHz]
Conducted Power 23.6dBm
Test Date: Nov 22, 2000

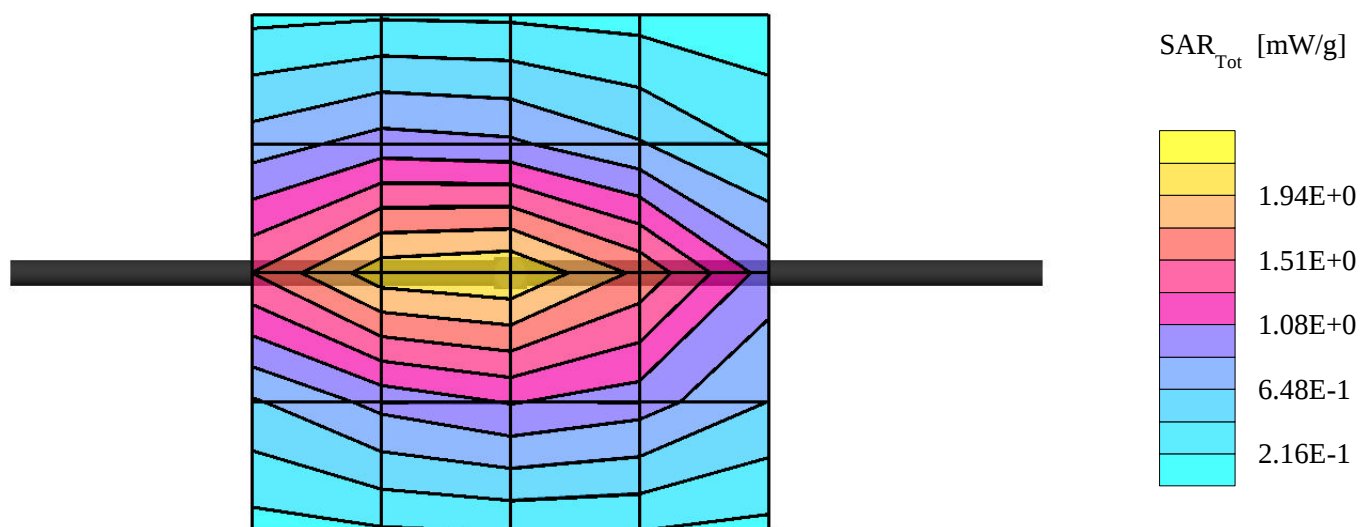


APPENDIX B - DIPOLE VALIDATION

Dipole 835 MHz

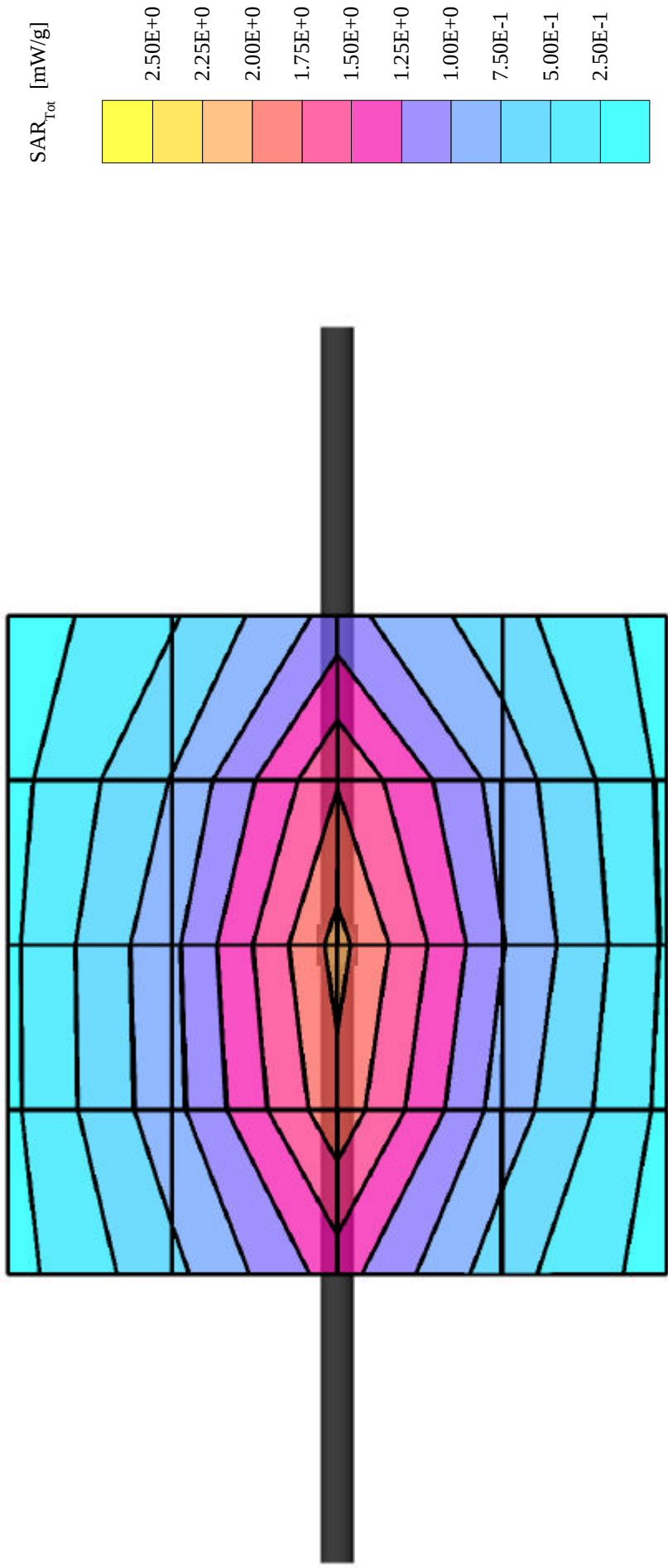
Generic Twin Phantom; Flat Section; Position: (90°,90°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;
Brain 835 MHz: $\sigma = 0.80$ mho/m $\epsilon_r = 44.2$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 2.03 mW/g, SAR (10g): 1.34 mW/g

Validation Date: November 22, 2000



Validation Dipole D835V2 SN:411, d = 15mm

Frequency: 835 MHz; Antenna Input Power: 250 [mW]
Generic Twin Phantom; Flat Section; Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0
Probe: ET3DV5 - SN1342/DAE3; ConvF(5.75,5.75,5.75); Brain 835 MHz: $\sigma = 0.80$ mho/m $\epsilon_r = 44.2$ $\rho = 1.00$ g/cm³
Cubes (2): Peak: 3.07 mW/g ± 0.05 dB, SAR (1g): 2.06 mW/g ± 0.05 dB, SAR (10g): 1.38 mW/g ± 0.05 dB, (Worst-case extrapolation)
Penetration depth: 13.6 (12.7, 14.8) [mm]
Powerdrift: -0.00 dB



APPENDIX C - PROBE CALIBRATION

Probe ET3DV6

SN:1387

Manufactured:	September 21, 1999
Last calibration:	September 22, 1999

Calibrated for System DASY3

DASY3 - Parameters of Probe: ET3DV6 SN:1387

Sensitivity in Free Space

NormX	1.55 $\mu\text{V}/(\text{V}/\text{m})^2$
NormY	1.65 $\mu\text{V}/(\text{V}/\text{m})^2$
NormZ	1.64 $\mu\text{V}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	98 mV
DCP Y	98 mV
DCP Z	98 mV

Sensitivity in Tissue Simulating Liquid

Brain **450 MHz** $\epsilon_r = 48 \pm 5\%$ $s = 0.50 \pm 10\% \text{ mho/m}$

ConvF X	6.76 extrapolated	Boundary effect:	
ConvF Y	6.76 extrapolated	Alpha	0.30
ConvF Z	6.76 extrapolated	Depth	2.52

Brain **900 MHz** $\epsilon_r = 42.5 \pm 5\%$ $s = 0.86 \pm 10\% \text{ mho/m}$

ConvF X	6.34 $\pm 7\%$ (k=2)	Boundary effect:	
ConvF Y	6.34 $\pm 7\%$ (k=2)	Alpha	0.47
ConvF Z	6.34 $\pm 7\%$ (k=2)	Depth	2.25

Brain **1500 MHz** $\epsilon_r = 41 \pm 5\%$ $s = 1.32 \pm 10\% \text{ mho/m}$

ConvF X	5.78 interpolated	Boundary effect:	
ConvF Y	5.78 interpolated	Alpha	0.69
ConvF Z	5.78 interpolated	Depth	1.88

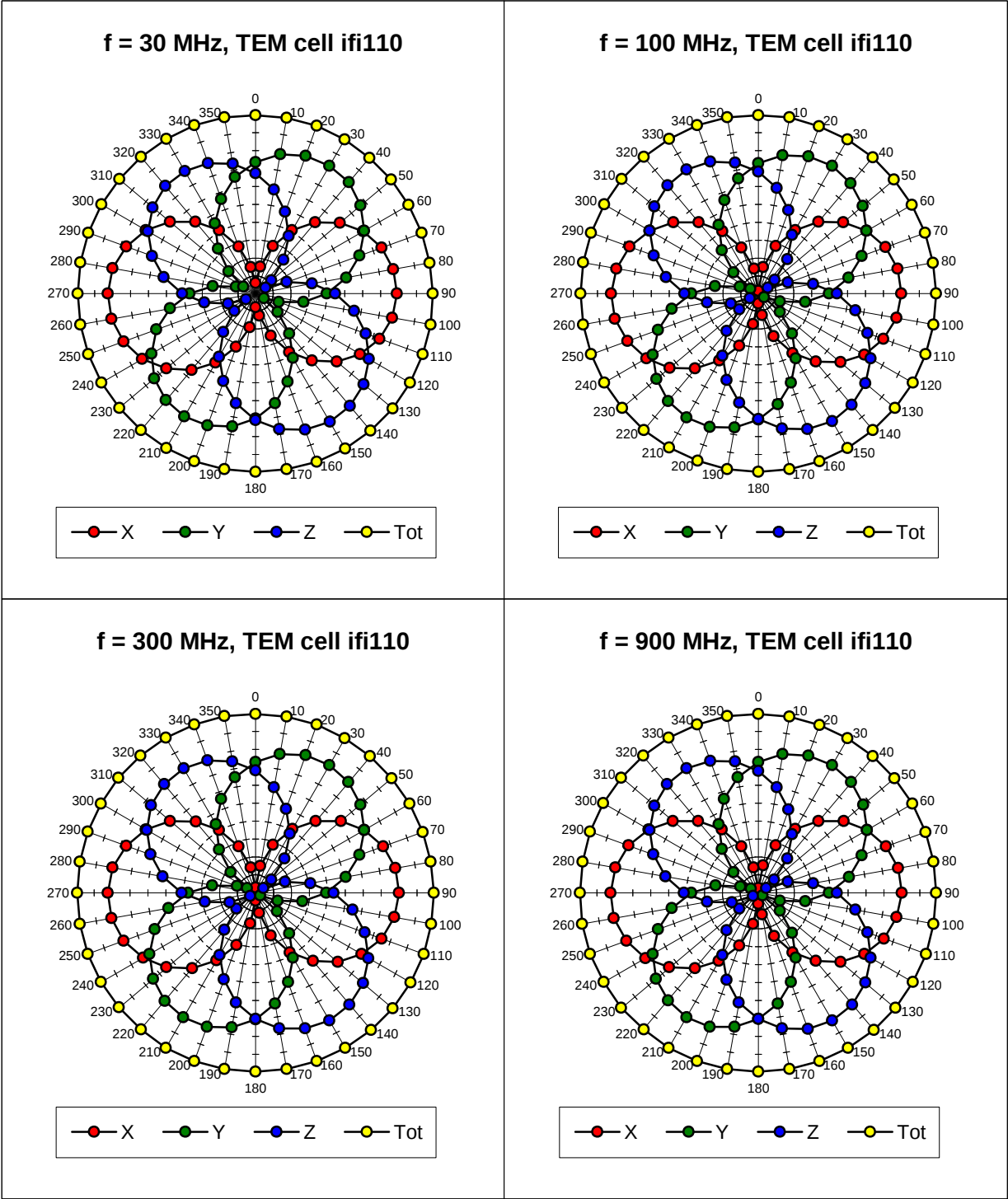
Brain **1800 MHz** $\epsilon_r = 41 \pm 5\%$ $s = 1.69 \pm 10\% \text{ mho/m}$

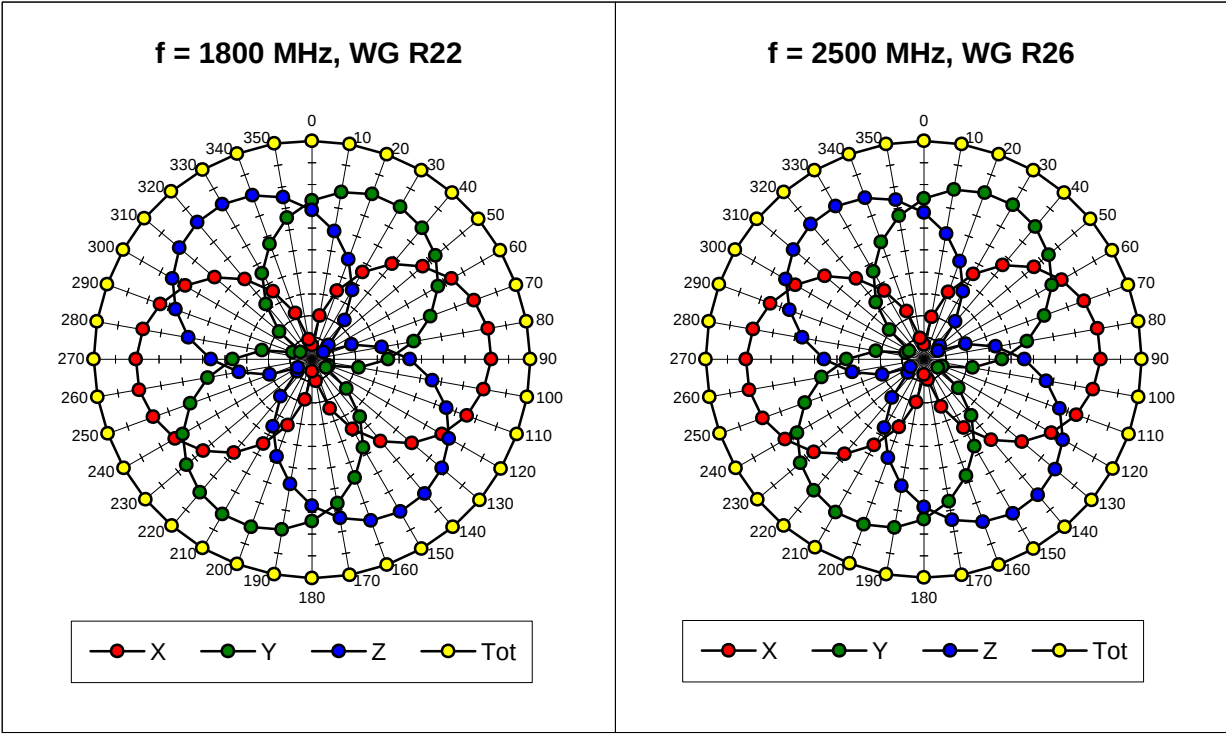
ConvF X	5.50 $\pm 7\%$ (k=2)	Boundary effect:	
ConvF Y	5.50 $\pm 7\%$ (k=2)	Alpha	0.81
ConvF Z	5.50 $\pm 7\%$ (k=2)	Depth	1.70

Sensor Offset

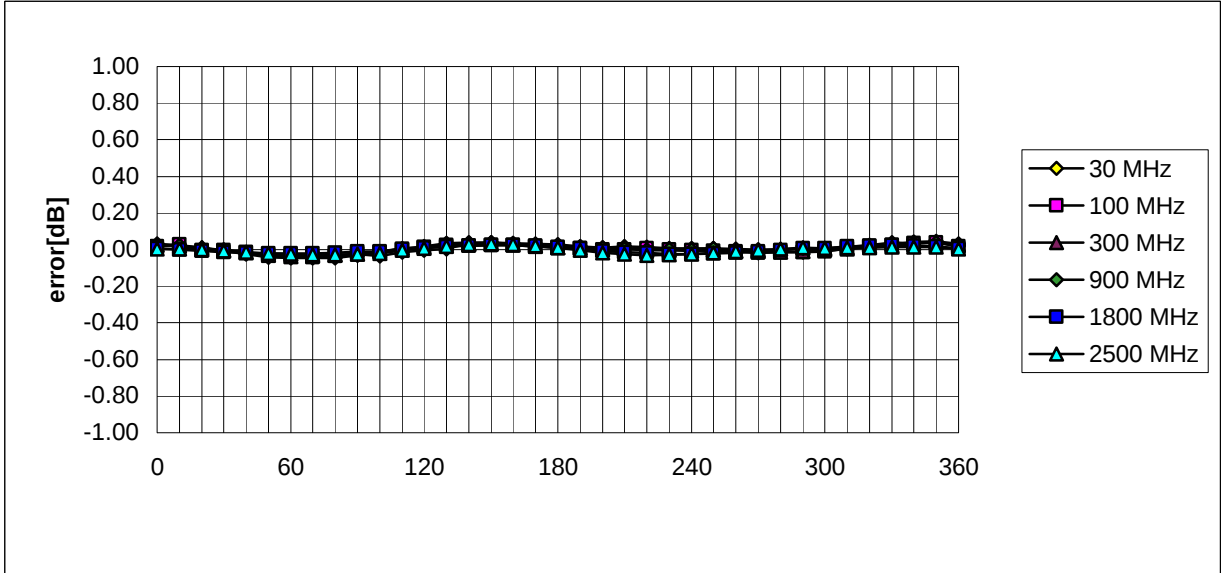
Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.6 $\pm$ 0.2	mm

Receiving Pattern (f) , q = 0°



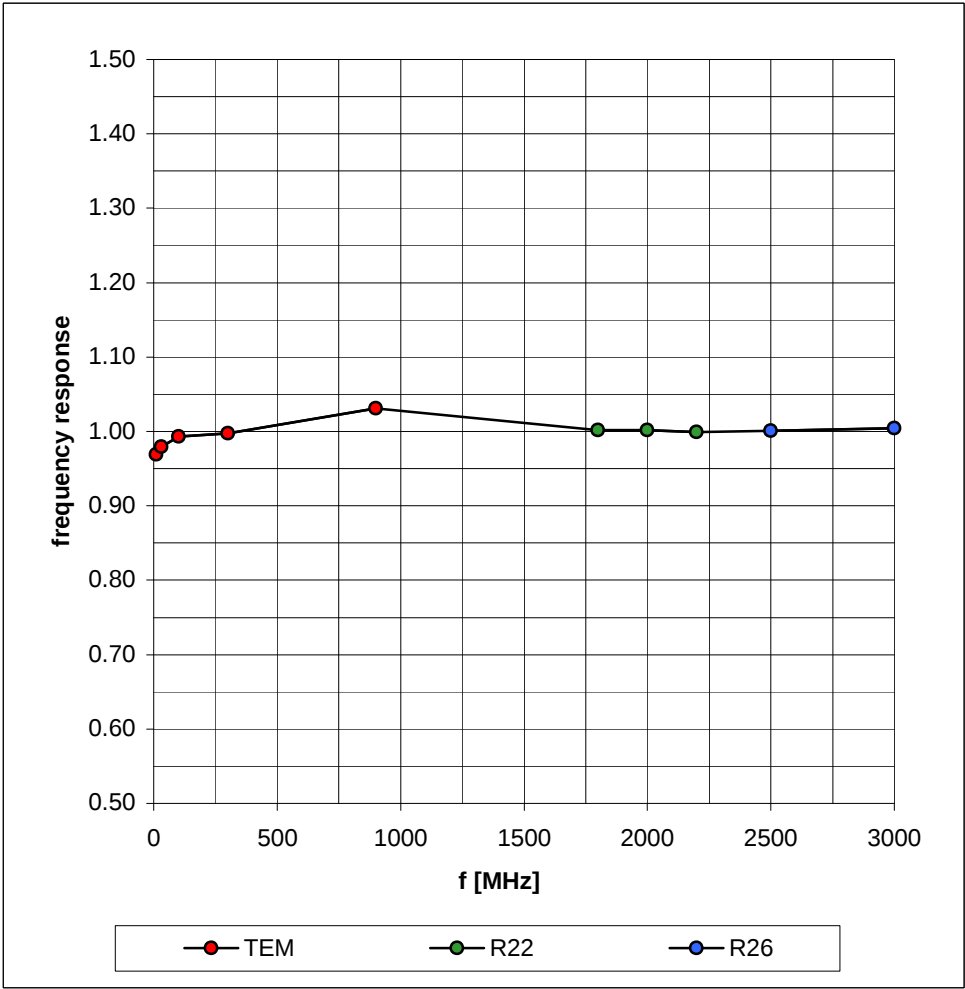


Isotropy Error (f), q = 0°

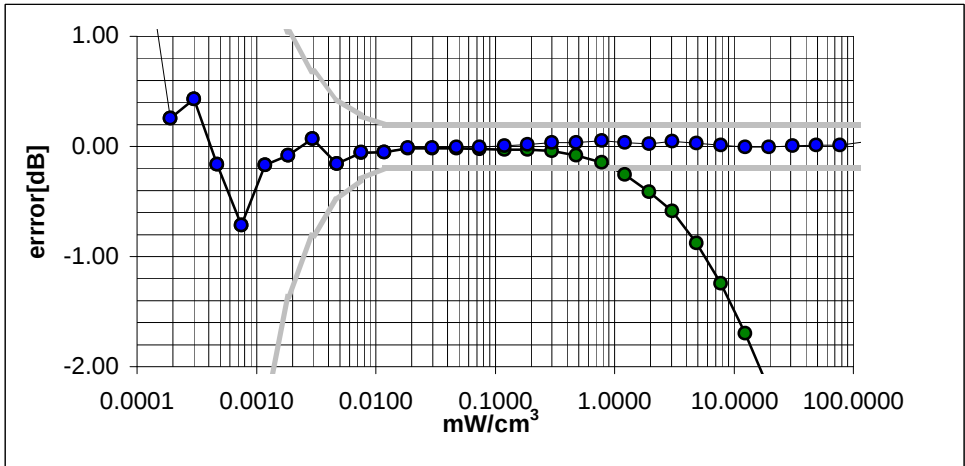
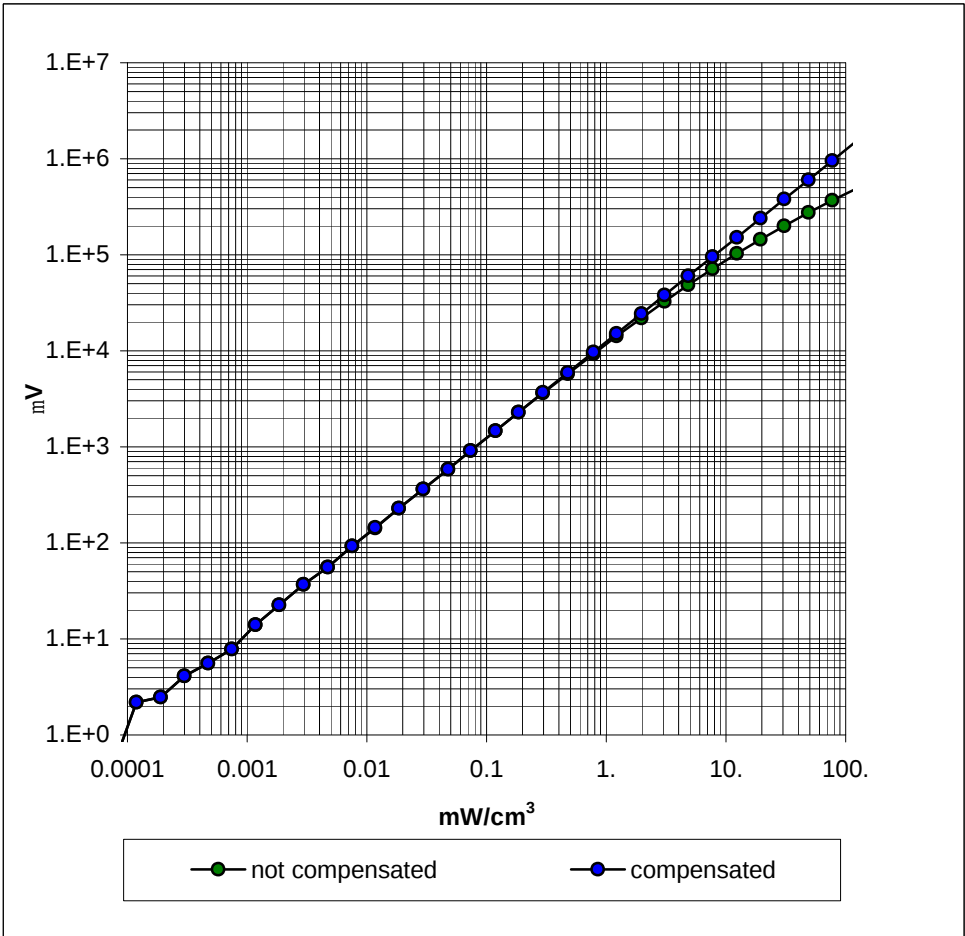


Frequency Response of E-Field

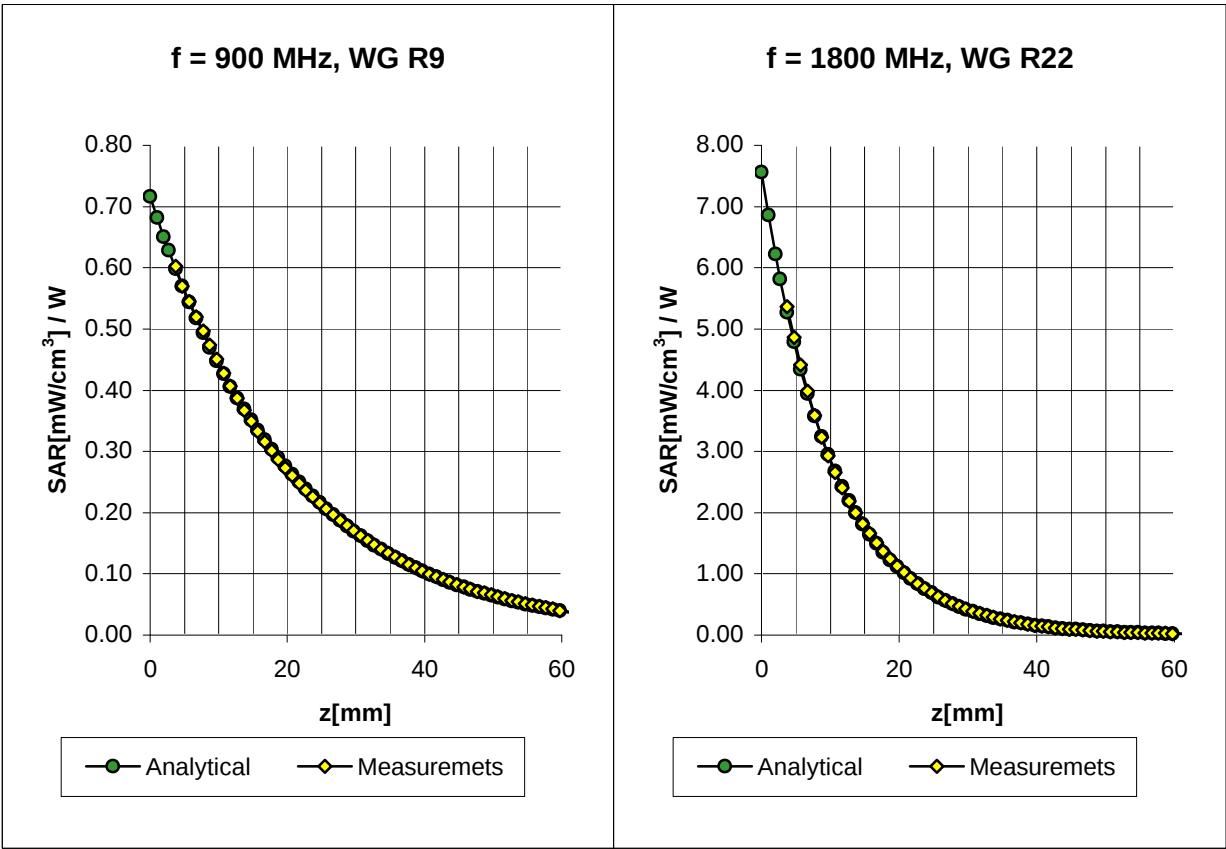
(TEM-Cell:ifi110, Waveguide R22, R26)



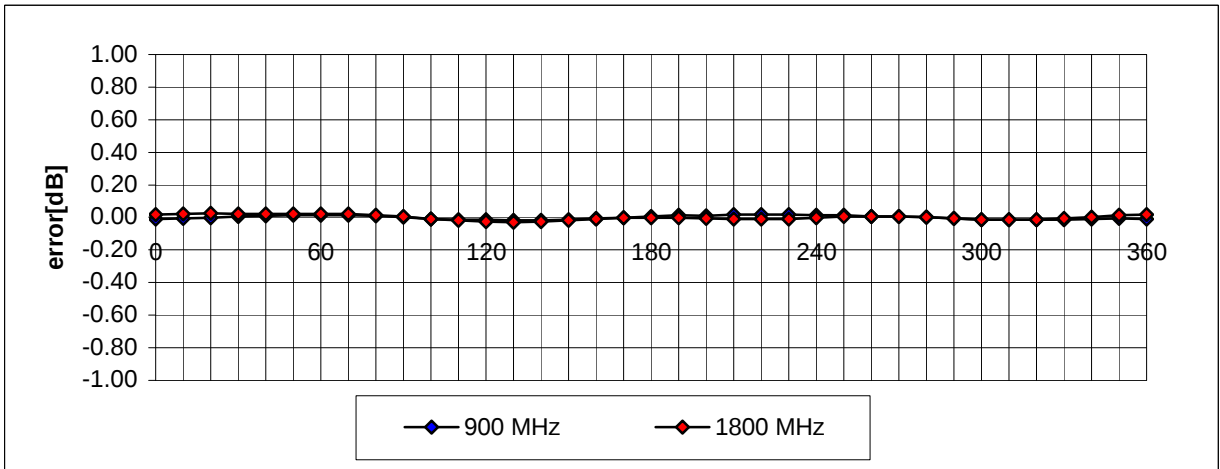
Dynamic Range f(SAR_{brain})
(TEM-Cell:ifi110)



Conversion Factor Assessment

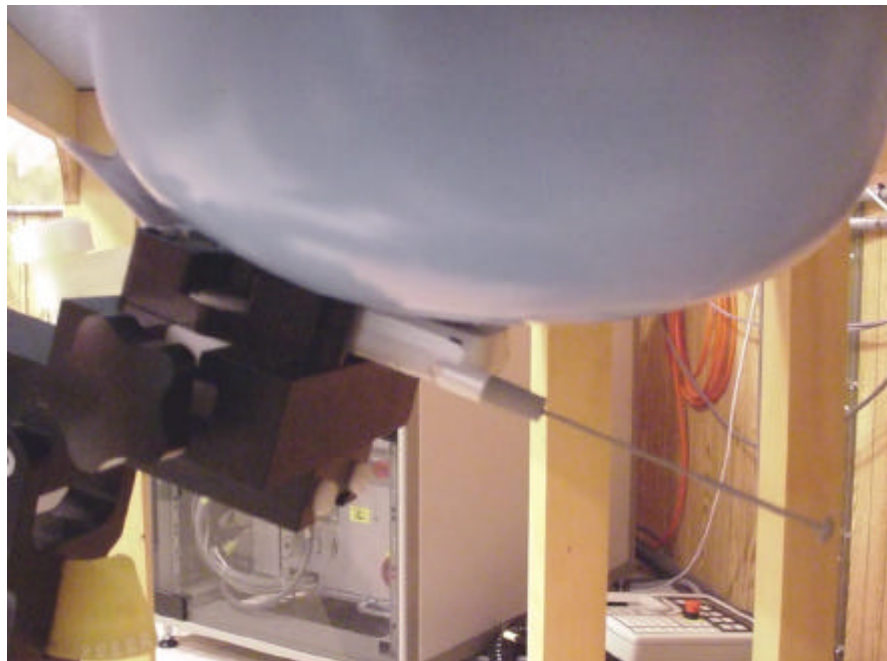


Receiving Pattern (f) (in brain tissue, z = 5 mm)

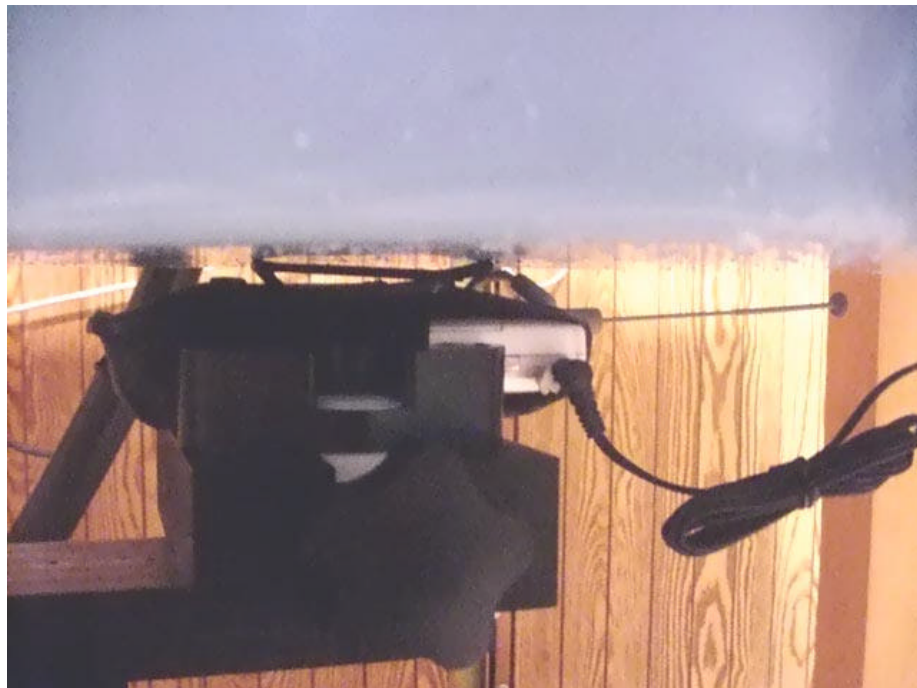


APPENDIX D - SAR TEST SETUP PHOTOGRAPHS

HEAD SAR TEST SETUP PHOTOGRAPHS



BODY SAR TEST SETUP PHOTOGRAPHS



APPENDIX E - BODY HOLSTER PHOTOGRAPHS

BODY HOLSTER PHOTOGRAPHS



BODY HOLSTER PHOTOGRAPHS



APPENDIX F - RF EXPOSURE MANUAL WARNING STATEMENT

FCC RF EXPOSURE INFORMATION

Read this information before using your handset

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations using the Wide Telecom WSH-101 belt-holster. To comply with FCC RF exposure requirements, use only wide Telecom approved accessories. When carrying the phone with the power on, use only the specific Wide Telecom belt-holster that has been tested for compliance. The use of non Wide Telecom approved accessories may not comply with FCC RF exposure requirements and should be avoided.

For more information about RF exposure, please visit the FCC website at www.fcc.gov