



MOTOROLA



CGISS EME Test Laboratory

8000 West Sunrise Blvd
Fort Lauderdale, FL. 33322

S.A.R. EME Compliance Test Report
Part 2 of 2

Date of Report: January 29, 2004
Report Revision: Rev. A
Manufacturer: Motorola
Product Description: 1:6, 1:3, 81:120, 1:12 TDM; 64 QAM, 16 QAM & QPSK Modulation; 0.6 W Pulse average
FCC ID: **AZ489FT5827**
Device Model: H75XAH6RR3AN/NUF3790A

Test Period: 12/29/03-01/13/04
EME Tech: Ed Church
EME Eng.: Stephen Whalen (Sr. EME Eng.)
Author: Michael Sailsman
Global EME Regulatory Affairs Liaison

Note: Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 2.0 of this report.

Deanna Zakharia signature on file for Ken Enger

Ken Enger
Senior Resource Manager, Laboratory Director, CGISS EME Lab

1/30/04

Date Approved

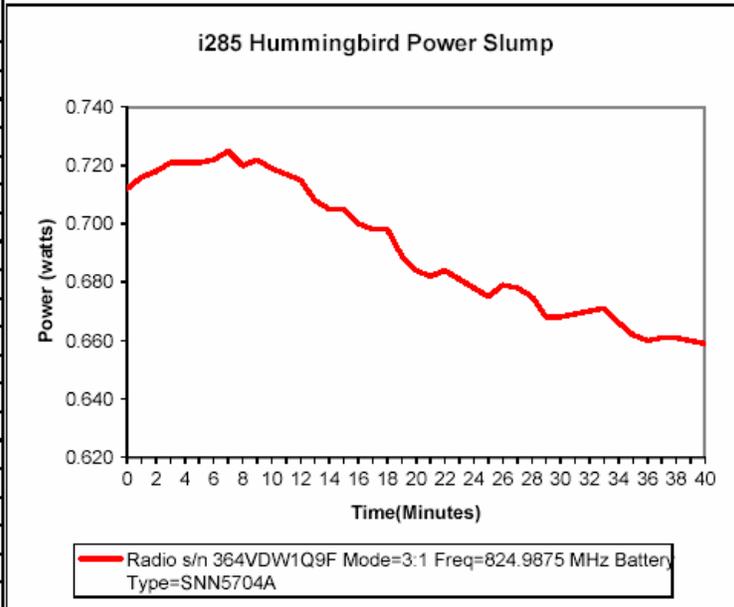
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APPENDIX A

Power Slump Data/Shortened Scan

DUT Power versus time data

Time(minutes)	Power (Watts)
0	0.712
1	0.716
2	0.718
3	0.721
4	0.721
5	0.721
6	0.722
7	0.725
8	0.720
9	0.722
10	0.719
11	0.717
12	0.715
13	0.708
14	0.705
15	0.705
16	0.700
17	0.698
18	0.698
19	0.689
20	0.684
21	0.682
22	0.684
23	0.681
24	0.678
25	0.675
26	0.679
27	0.678
28	0.675
29	0.668
30	0.668
31	0.669
32	0.670
33	0.671
34	0.666
35	0.662
36	0.660
37	0.661
38	0.661
39	0.660
40	0.659



Shortened Scan Results

FCC ID: AZ489FT5827; Test Date: 1/13/04

Motorola CGISS EME Laboratory

Run #: LEAR-R1-040113-12

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q9F

TX Freq: 824.9875

Tissue Temp: 20.0 (Celsius)

Start Power: 0.706 W

Antenna: Fixed

Battery Kit: SNN5704A

Belt clip: NONE

Audio/Data Acc.: NONE

Shortened scan reflect highest S.A.R. producing configuration; Run time 7 minutes.

Representative “normal” scan run time was 27 minutes

“Shortened” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.42 mW/g; 10-g Avg. = 1.00mW/g

“Normal” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.39 mW/g; 10-g Avg. = 0.97 mW/g

(see section 7.1 run # EC-Lear-R1-031229-11)

DUT in cheek touch position Left Ear

SAM Phantom; Left Hand Section; Position: (90°,59°);

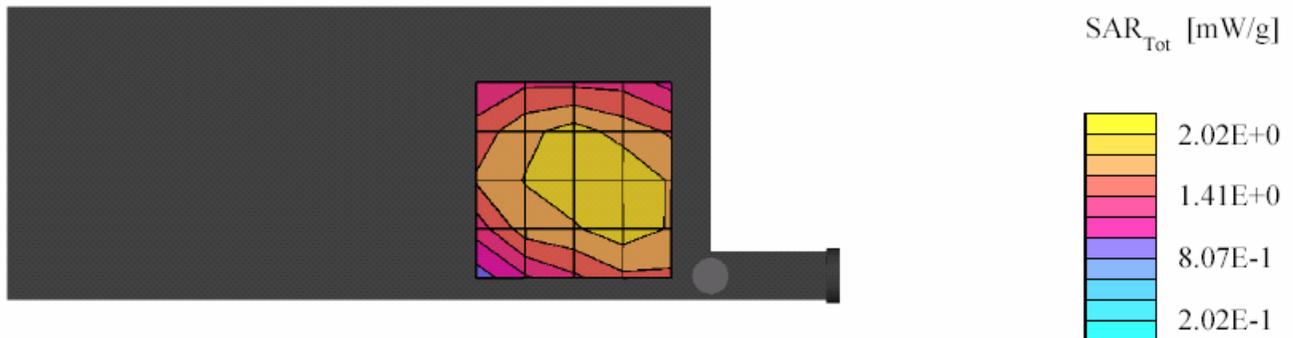
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.60,6.60,6.60); Probe cal date: 15/05/03; Crest factor: 3.0; IEEE

Head 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.4$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 5x5x7: SAR (1g): 1.41 mW/g, SAR (10g): 0.988 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 97.5, 25.5, 4.7

Power Drift: -0.03 dB



FCC ID: AZ489FT5827; Test Date: 1/13/04

Motorola CGISS EME Laboratory

Run #: Ab-R1-040113-08

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 824.9875 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power: 0.696 W

Antenna: Fixed

Battery Kit: SNN5704A

Belt clip: NNTN4747A

Audio/Data Acc.: None

Shortened scan reflect highest S.A.R. producing configuration; Run time 7 minutes.

Representative “normal” scan run time was 22 minutes

“Shortened” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.36 mW/g; 10-g Avg. = 0.98 mW/g

“Normal” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.38 mW/g; 10-g Avg. = 0.98 mW/g

(see section 7.1 run # EC-Ab-R1-040109-14)

DUT w/ belt clip against phantom

Flat Phantom; Device Section; Position: (90°,90°);

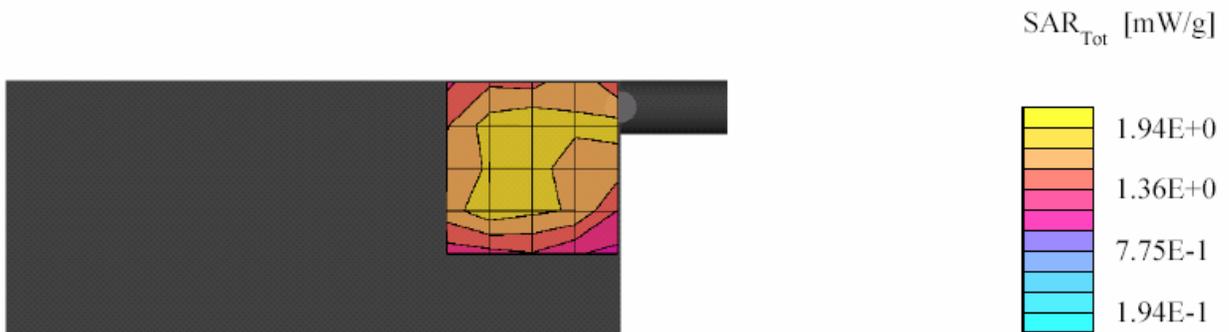
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.50,6.50,6.50); Probe cal date: 15/05/03; Crest factor: 1.5; FCC

Body 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 53.5$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 5x5x7: SAR (1g): 1.35 mW/g, SAR (10g): 0.970 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 24.0, 97.5, 4.7

Power Drift: 0.80 dB



APPENDIX B

Data Results

FCC ID: AZ489FT5827; Test Date: 1/13/04

Motorola CGISS EME Laboratory

Run #: LEAR-R1-040113-11

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q9F

TX Freq: 824.9875

Tissue Temp: 20.0 (Celsius)

Start Power: 0.707 W

Antenna: Fixed

Battery Kit: SNN5704A

Carry case: NONE

Audio/Data Acc.: NONE

DUT at left ear in cheek touch position

SAM Phantom; Left Hand Section; Position: (90°, 59°);

Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.60,6.60,6.60); Probe cal date: 15/05/03; Crest factor: 3.0; IEEE

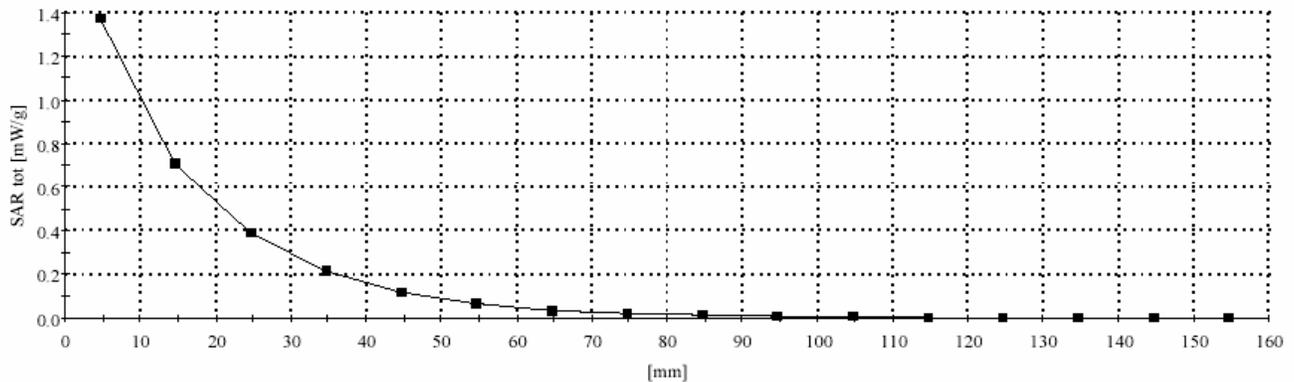
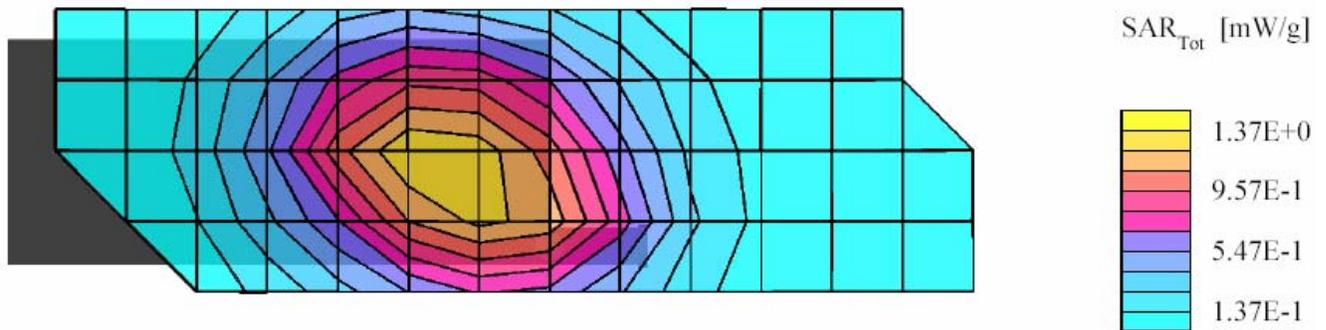
Head 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.4$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 1.34 mW/g, SAR (10g): 0.950 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 96.0, 27.0, 4.7

Power Drift: -0.26 dB

Note: "Max outside" has been identified by SPEAG as an unresolved intermittent occurrence with the DASY 3 application even when the entire peak area is captured.



FCC ID: AZ489FT5827; Test Date: 12/30/03

Motorola CGISS EME Laboratory

Run #: Face-R1-031230-08

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 806.0125 MHz

Sim Tissue Temp: 20.3 (Celsius)

Start Power: 0.703 W

Antenna: Fixed

Battery Kit: SNN5705B

Carry case: NONE

Audio/Data Acc.: NONE

DUT front towards phantom w/ 2.5 cm separation

SAM Phantom; Flat Section; Position: (90°,90°);

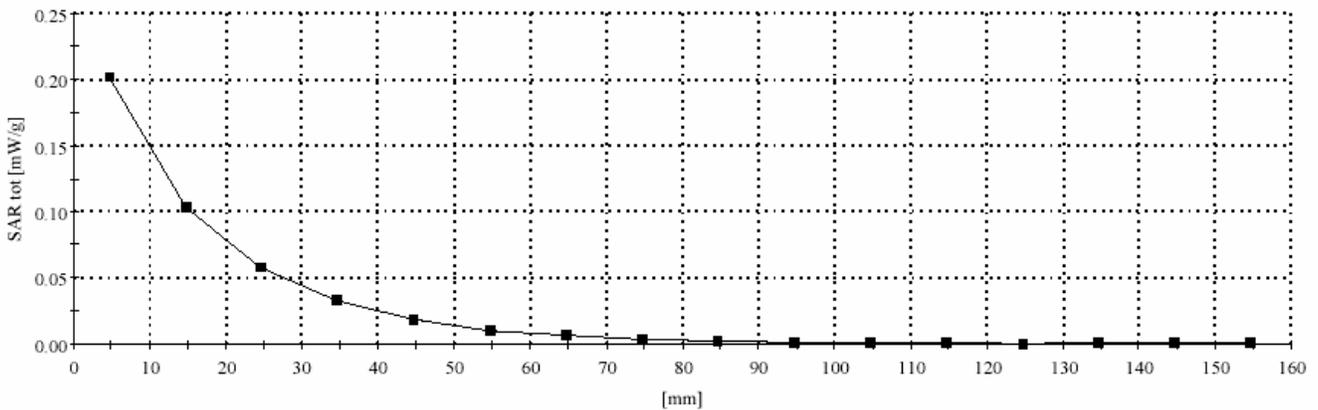
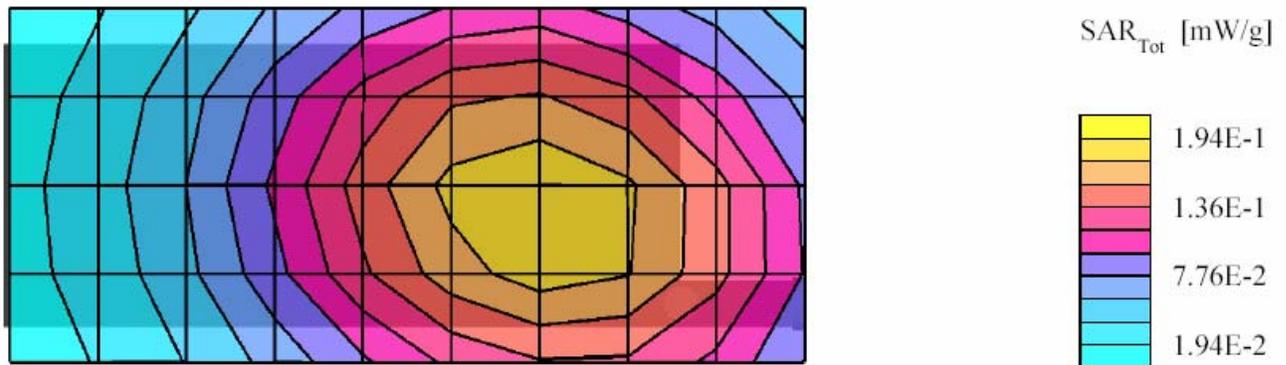
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.60,6.60,6.60); Probe cal date: 15/05/03; Crest factor: 6.0; IEEE

Head 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 43.1$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 0.198 mW/g, SAR (10g): 0.142 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 34.5, 90.0, 4.7

Power Drift: 0.04 dB



FCC ID: AZ489FT5827; Test Date: 12/30/03

Motorola CGISS EME Laboratory

Run #: Lear-R1-031230-13

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 896.01875 MHz

Sim Tissue Temp: 20.4 (Celsius)

Start Power: 0.697 W

Antenna: Fixed

Battery Kit: SNN5704A

Carry case: NONE

Audio/Data Acc.: NONE

DUT at left ear in Cheek Touch position

SAM Phantom; Left Hand Section; Position: (90°, 59°);

Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.60,6.60,6.60); Probe cal date: 15/05/03; Crest factor: 3.0; IEEE

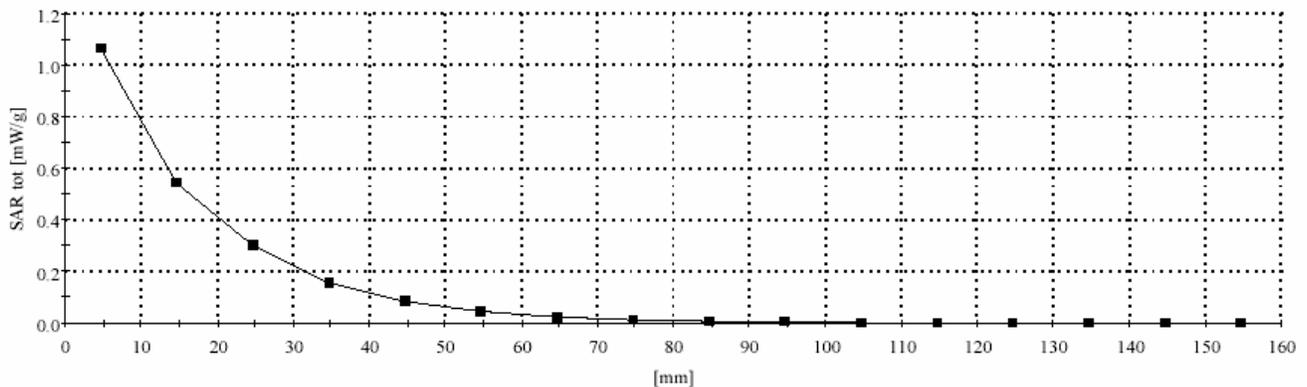
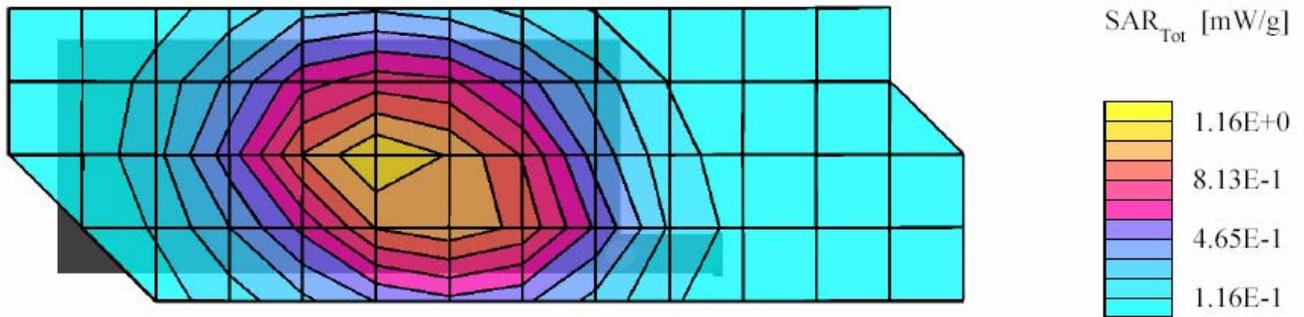
Head 899 MHz: $\sigma = 1.01$ mho/m $\epsilon = 42.0$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 1.09 mW/g, SAR (10g): 0.746 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 91.5, 28.5, 4.7

Power drift: -0.51 dB

Note: "Max outside" has been identified by SPEAG as an unresolved intermittent occurrence with the DASY 3 application even when the entire peak area is captured.



FCC ID: AZ489FT5827; Test Date: 1/7/04

Motorola CGISS EME Laboratory

Run #: Face-R1-040107-04

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 896.01875 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power: 0.697 W

Antenna: Fixed

Battery Kit: SNN5705B

Carry case: NONE

Audio/Data Acc.: NONE

DUT front towards phantom w/ 2.5 cm separation distance

SAM Phantom; Flat Section; Position: (90°,90°);

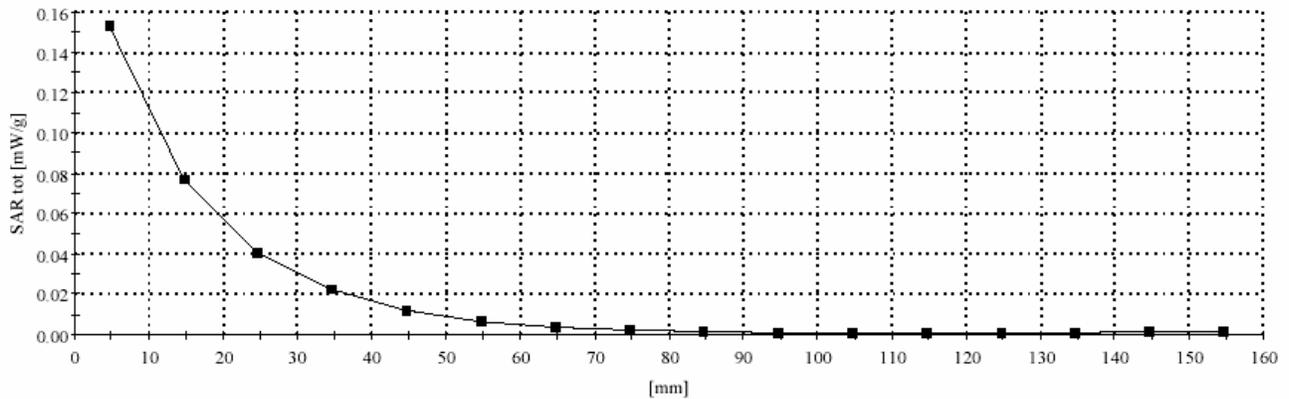
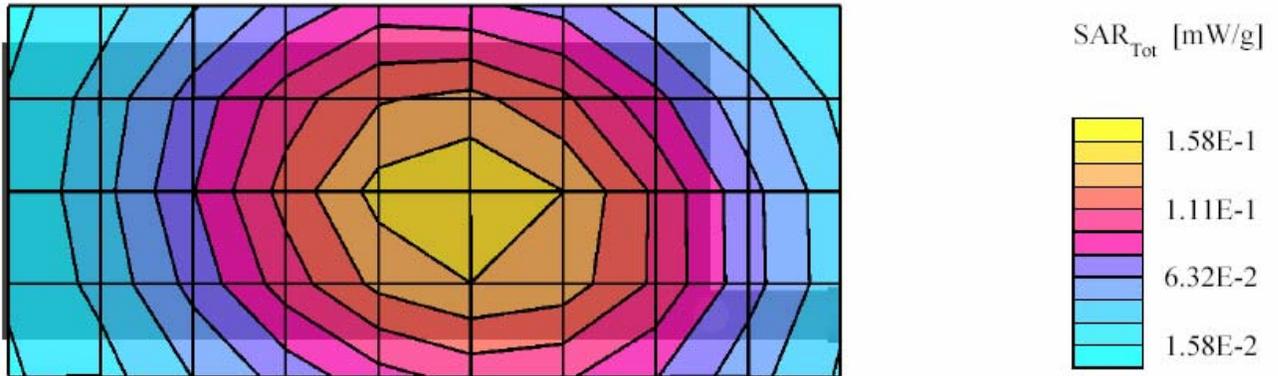
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.60,6.60,6.60); Probe cal date: 15/05/03; Crest factor: 6.0; IEEE

Head 899 MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.4$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 0.154 mW/g, SAR (10g): 0.108 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 31.5, 73.5, 4.7

Power Drift: -0.16 dB



FCC ID: AZ489FT5827; Test Date: 1/8/04

Motorola CGISS EME Laboratory

Run #: Ab-R1-040108-04

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 813.5125 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power: 0.691 W

Antenna: Fixed

Battery Kit: SNN5704A

Belt clip: NNTN4747A

Audio/Data Acc.: NONE

DUT w/ belt clip against the phantom

Flat Phantom; Device Section; Position: (90°,90°);

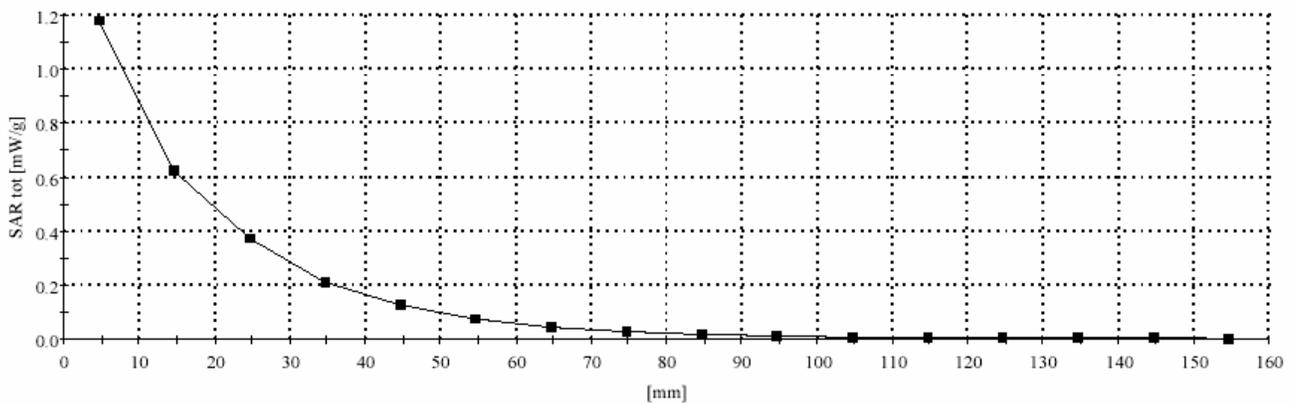
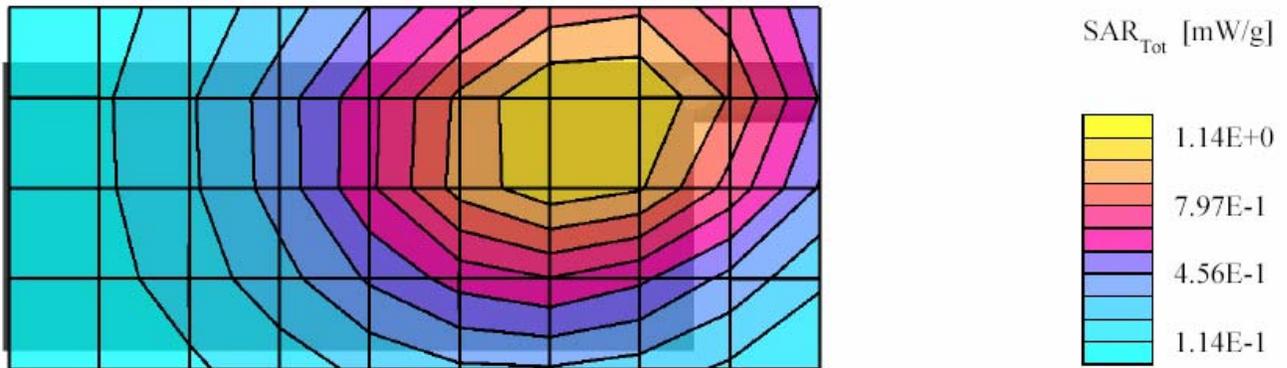
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.50,6.50,6.50); Probe cal date: 15/05/03; Crest factor: 1.5; FCC

Body 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 53.6$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 1.23 mW/g, SAR (10g): 0.878 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 21.0, 96.0, 4.7

Power Drift: -0.07 dB



FCC ID: AZ489FT5827; Test Date: 1/9/04

Motorola CGISS EME Laboratory

Run #: Ab-R1-040109-14

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 824.9875 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power: 0.715 W

Antenna: Fixed

Battery Kit: SNN5704A

Belt Clip: NNTN4747A

Audio/Data Acc.: None

DUT w/ belt clip against the phantom

Flat Phantom; Device Section; Position: (90°,90°);

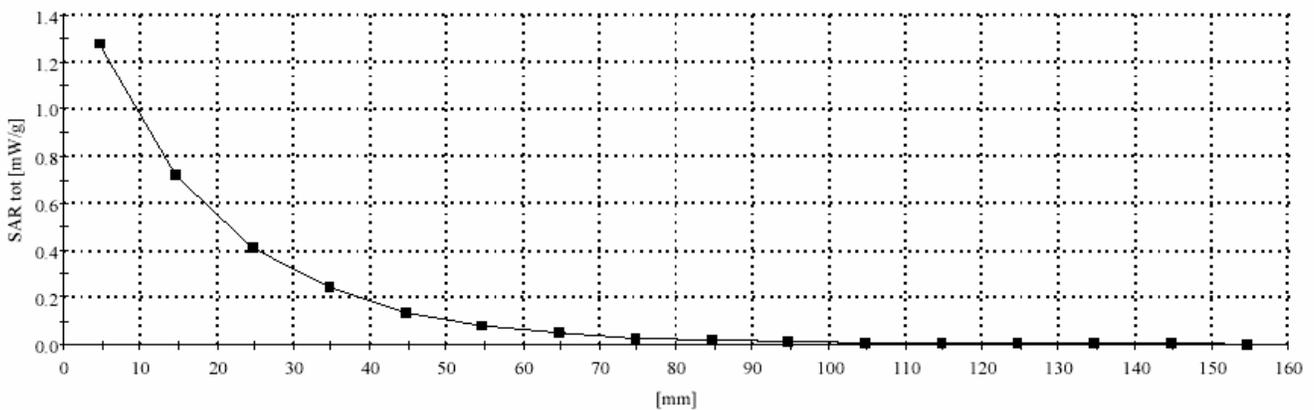
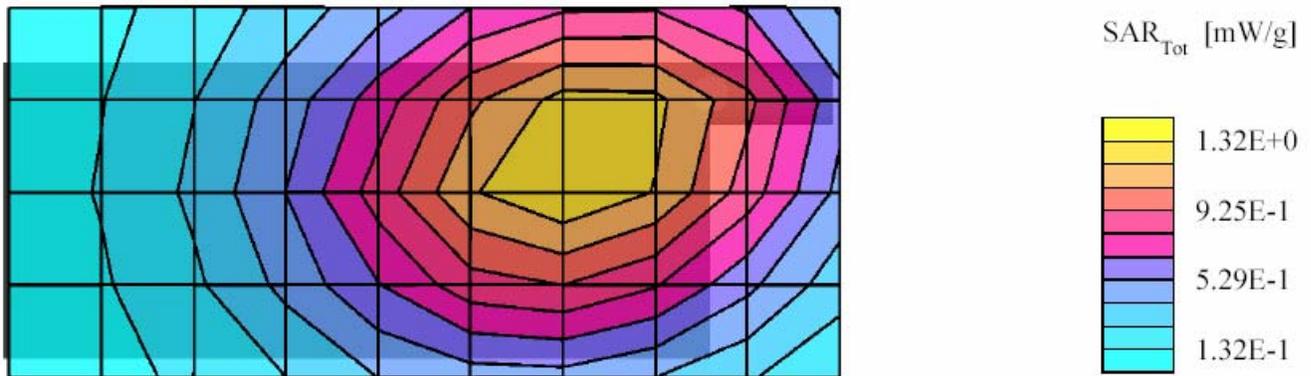
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.50,6.50,6.50); Probe cal date: 15/05/03; Crest factor: 1.5; FCC

Body 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 53.5$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 1.36 mW/g, SAR (10g): 0.968 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 25.5, 91.5, 4.7

Power drift: -0.05 dB



FCC ID: AZ489FT5827; Test Date: 1/9/04

Motorola CGISS EME Laboratory

Run #: Ab-R1-040109-17

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 901.98125 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power: 0.710 W

Antenna: Fixed

Battery Kit: SNN5704A

Belt clip: NNTN4747A

Audio/Data Acc.: NTN8496A

DUT w/ belt clip against the phantom

Flat Phantom; Device Section; Position: (90°,90°);

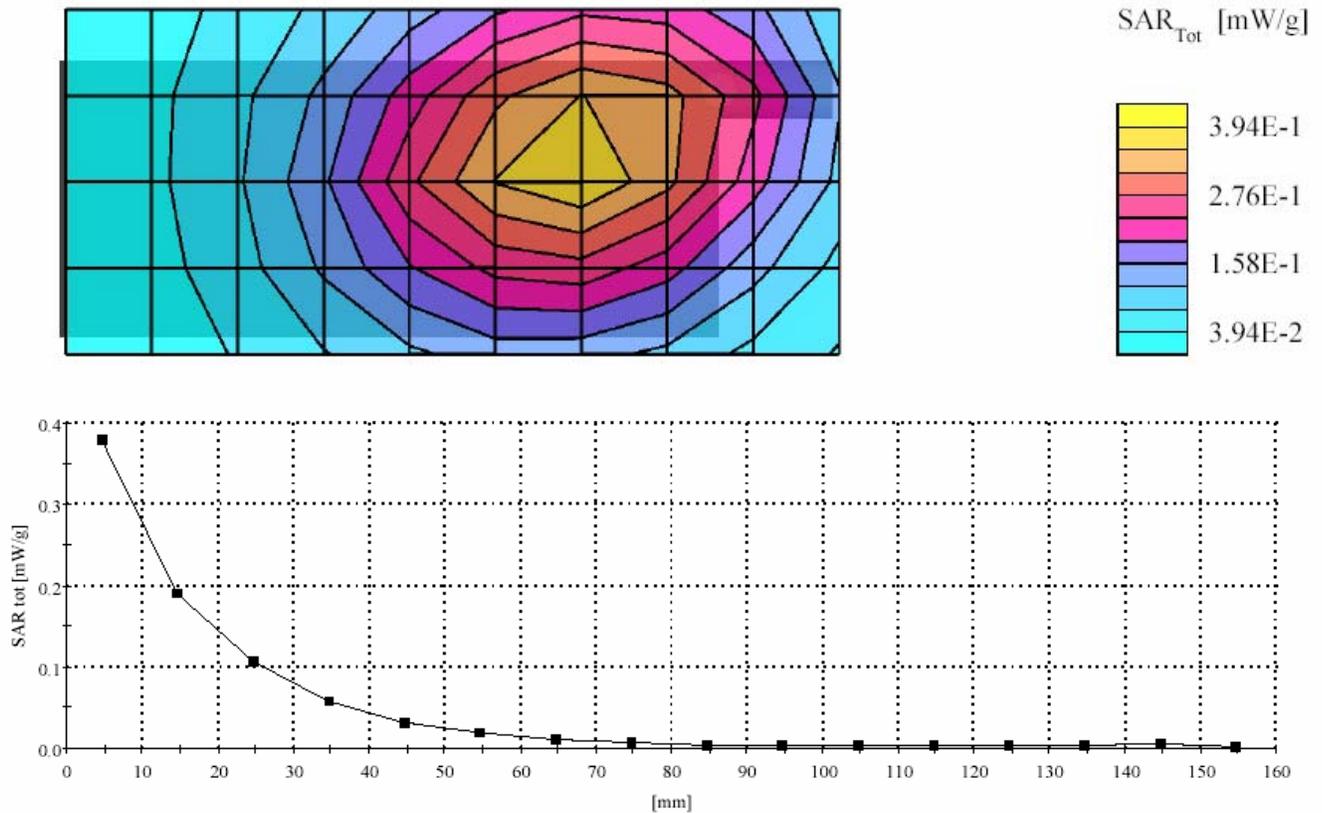
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.50,6.50,6.50); Probe cal date: 15/05/03; Crest factor: 3.0; FCC

Body 899 MHz: $\sigma = 1.03$ mho/m $\epsilon = 52.7$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 0.382 mW/g, SAR (10g): 0.265 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 27.0, 88.5, 4.7

Power Drift: -0.44 dB



FCC ID: AZ489FT5827; Test Date: 1/13/04

Motorola CGISS EME Laboratory

Run #: Ab-R1-040113-03

Model #: H75XAH6RR3AN / NUF3790A SN: 364VDW1Q4Q

TX Freq: 824.9875 MHz

Sim Tissue Temp: 20.2 (Celsius)

Start Power: 0.704 W

Antenna: Fixed

Battery Kit: SNN5704A

Carry case: None

Audio/Data Acc.: None

DUT back towards phantom w/ 2.5cm separation

Flat Phantom; Device Section; Position: (90°,90°);

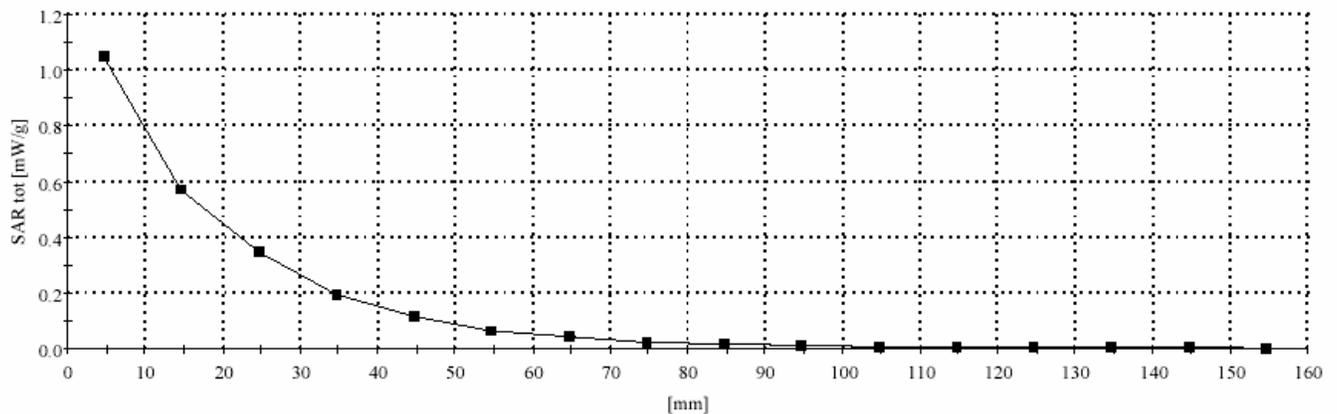
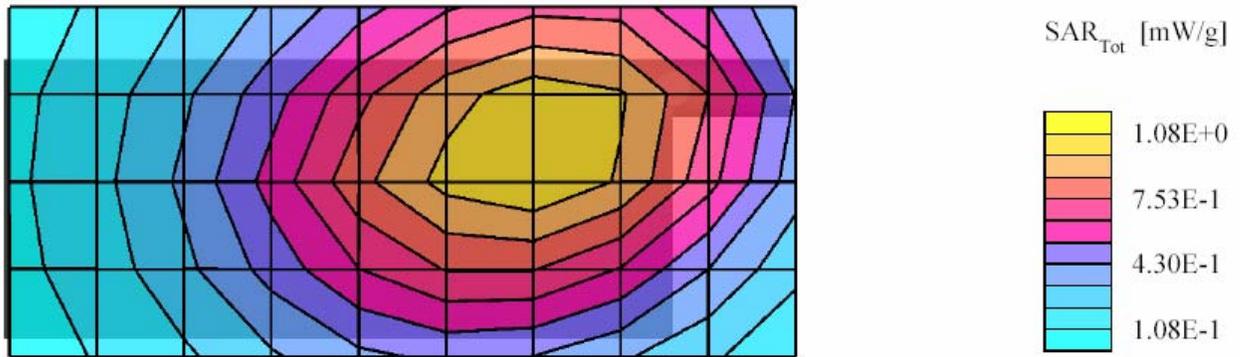
Probe: ET3DV6 - SN1384(Cal Date 05-15-2003); ConvF(6.50,6.50,6.50); Probe cal date: 15/05/03; Crest factor: 1.5; FCC

Body 813 MHz: $\sigma = 0.93$ mho/m $\epsilon = 53.5$ $\rho = 1.00$ g/cm³; DAE3: 363V1 DAE Cal Date: 05/13/2003

Cube 7x7x7: SAR (1g): 1.09 mW/g, SAR (10g): 0.786 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 24.0, 90.0, 4.7

Power drift: -0.16 dB



APPENDIX C

Dipole System Performance Check Results

Dipole validation scans at the head from SPEAG are provided in APPENDIX D. The CGISS EME lab validated the dipole to the applicable IEEE system performance targets. Within the same day system validation was performed using FCC body tissue parameters to generate the system performance target values for body at the applicable frequency. The results of the CGISS EME system performance validation are provided in this appendix.

SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 12/29/03

Motorola CGISS EME Lab

Run #: Sys Perf-R1-031229-01

TX Freq: 900 MHz

Sim Tissue Temp: 20.8 (Celsius)

Start Power; 250mW

SAR target at 1W is 12.00 mW/g (1g avg, including drift)

SAR target at 1W is 7.52 mW/g (10g avg, including drift)

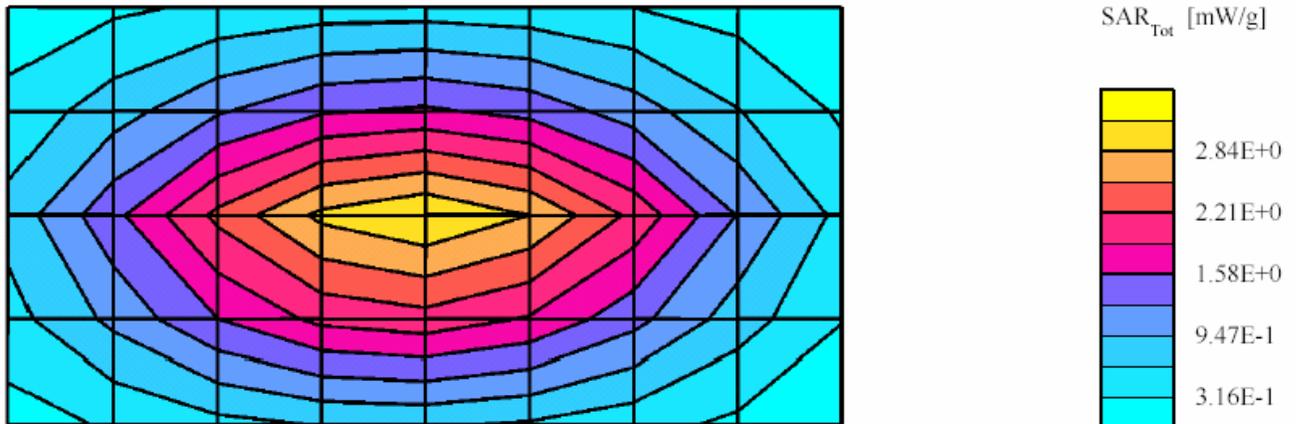
SAR calculated at 1W is 12.75 mW/g (1g avg). Percent from target (including drift) is 6.24 %

SAR calculated at 1W is 7.94 mW/g (10g avg). Percent from target (including drift) is 5.26 %

SAM Expanded (Rev. 2); Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.60,6.60,6.60);
Crest factor: 1.0; IEEE Head 900 MHz : $\sigma = 1.01$ mho/m $\epsilon = 41.8$ $\rho = 1.00$ g/cm³; DAE3: SN363-V1 DAE Cal Date:
05/13/2003

Cubes (2): Peak: 5.14 mW/g \pm 0.00 dB, SAR (1g): 3.18 mW/g \pm 0.01 dB, SAR (10g): 1.98 mW/g \pm 0.01 dB, (Worst-case extrapolation) Penetration depth: 11.0 (10.2, 12.2) [mm]

Power drift: -0.01 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 12/30/03

Motorola CGISS EME Lab

Run #: Sys Perf-R1-031230-01

TX Freq: 900 MHz

Sim Tissue Temp: 20.7 (Celsius)

Start Power; 250mW

SAR target at 1W is 12.00 mW/g (1g avg, including drift)

SAR target at 1W is 7.52 mW/g (10g avg, including drift)

SAR calculated at 1W is 12.06 mW/g (1g avg). Percent from target (including drift) is 0.47 %

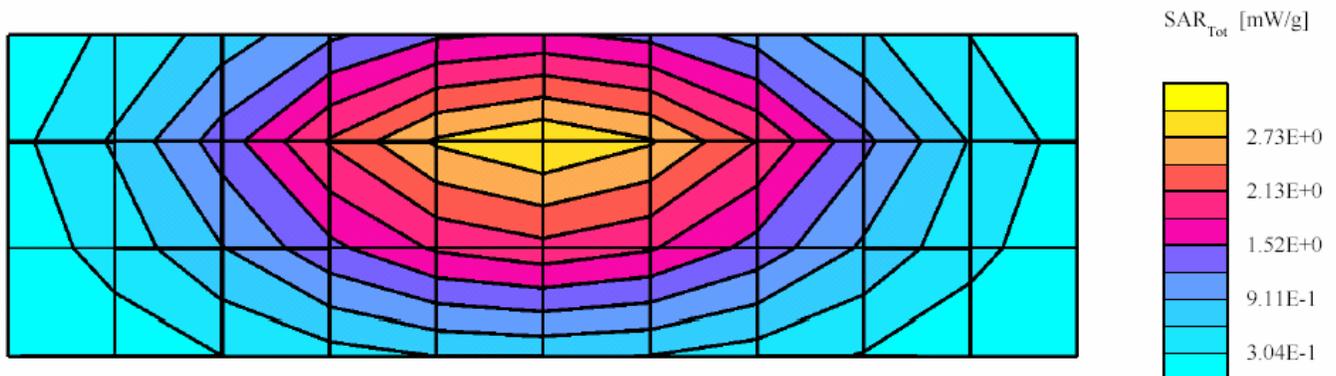
SAR calculated at 1W is 7.50 mW/g (10g avg). Percent from target (including drift) is - 0.26 %

Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.60,6.60,6.60); Crest factor: 1.0; IEEE

Head 900 MHz : $\sigma = 1.01$ mho/m $\epsilon = 42.0$ $\rho = 1.00$ g/cm³; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.96 mW/g \pm 0.03 dB, SAR (1g): 3.07 mW/g \pm 0.04 dB, SAR (10g): 1.91 mW/g \pm 0.04 dB, (Worst-case extrapolation) Penetration depth: 11.1 (10.3, 12.2) [mm]

Power drift: 0.08 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/2/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040102-01

TX Freq: 900 MHz

Sim Tissue Temp: 20.6 (Celsius)

Start Power; 250mW

SAR target at 1W is 12.00 mW/g (1g avg, including drift)

SAR target at 1W is 7.52 mW/g (10g avg, including drift)

SAR calculated at 1W is 11.73 mW/g (1g avg). Percent from target (including drift) is -2.25 %

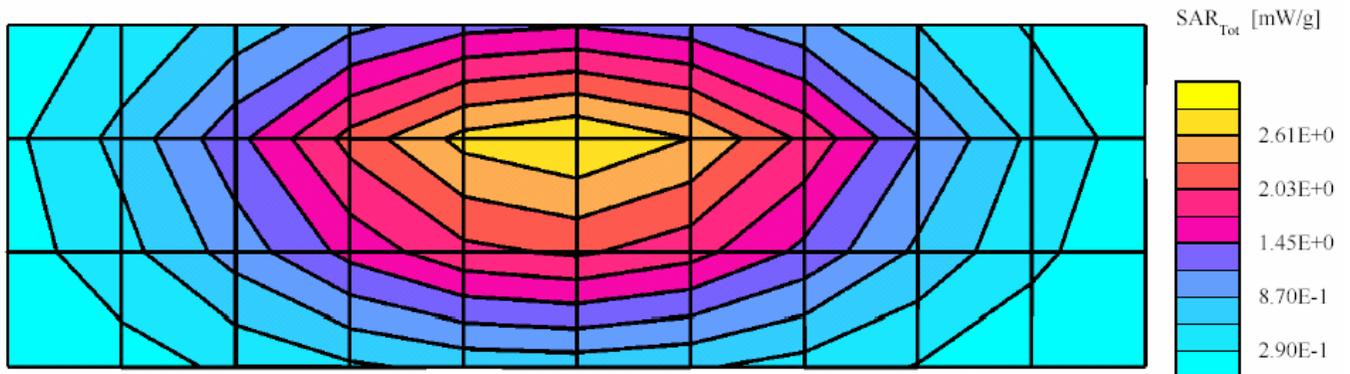
SAR calculated at 1W is 7.32 mW/g (10g avg). Percent from target (including drift) is - 2.65 %

SAM; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.60,6.60,6.60); Crest factor: 1.0;

IEEE Head 900 MHz : $\sigma = 1.01\text{mho/m}$ $\epsilon = 41.7$ $\rho = 1.00 \text{ g/cm}^3$; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.80 mW/g ± 0.04 dB, SAR (1g): 2.98 mW/g ± 0.03 dB, SAR (10g): 1.86 mW/g ± 0.03 dB, (Worst-case extrapolation) Penetration depth: 11.2 (10.4, 12.3) [mm]

Power drift: 0.07 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/5/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040105-01

TX Freq: 900 MHz

Sim Tissue Temp: 20.6 (Celsius)

Start Power; 250mW

SAR target at 1W is 12.00 mW/g (1g avg, including drift)

SAR target at 1W is 7.52 mW/g (10g avg, including drift)

SAR calculated at 1W is 11.94 mW/g (1g avg). Percent from target (including drift) is -0.52 %

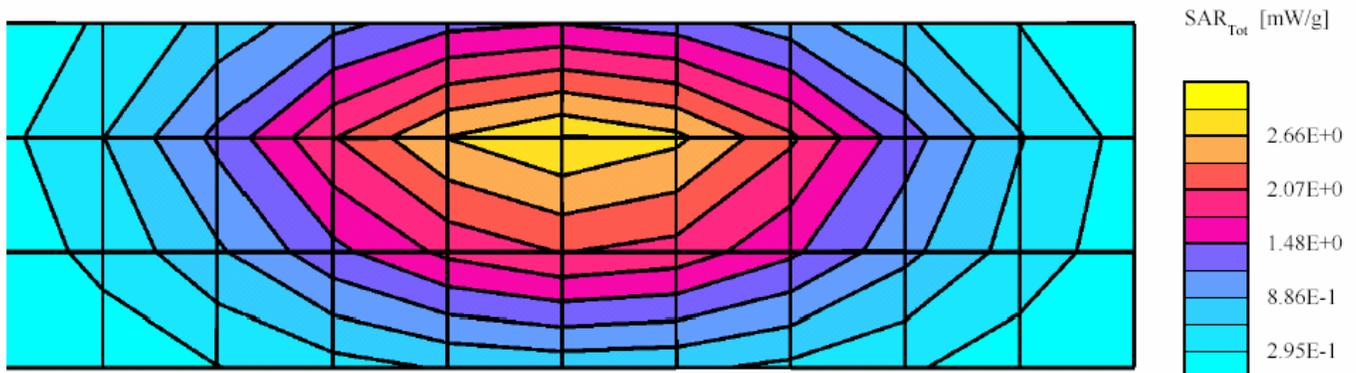
SAR calculated at 1W is 7.42 mW/g (10g avg). Percent from target (including drift) is -1.30 %

SAM; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.60,6.60,6.60); Crest factor: 1.0;

IEEE Head 900 MHz : $\sigma = 1.01$ mho/m $\epsilon = 41.1$ $\rho = 1.00$ g/cm³; DAE3; SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.90 mW/g \pm 0.04 dB, SAR (1g): 3.04 mW/g \pm 0.04 dB, SAR (10g): 1.89 mW/g \pm 0.03 dB, (Worst-case extrapolation)Penetration depth: 11.1 (10.3, 12.3) [mm]

Power drift: 0.08 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/7/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040107-01

TX Freq: 900 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power; 250mW

SAR target at 1W is 12.00 mW/g (1g avg, including drift)

SAR target at 1W is 7.52 mW/g (10g avg, including drift)

SAR calculated at 1W is 11.85 mW/g (1g avg). Percent from target (including drift) is -1.27 %

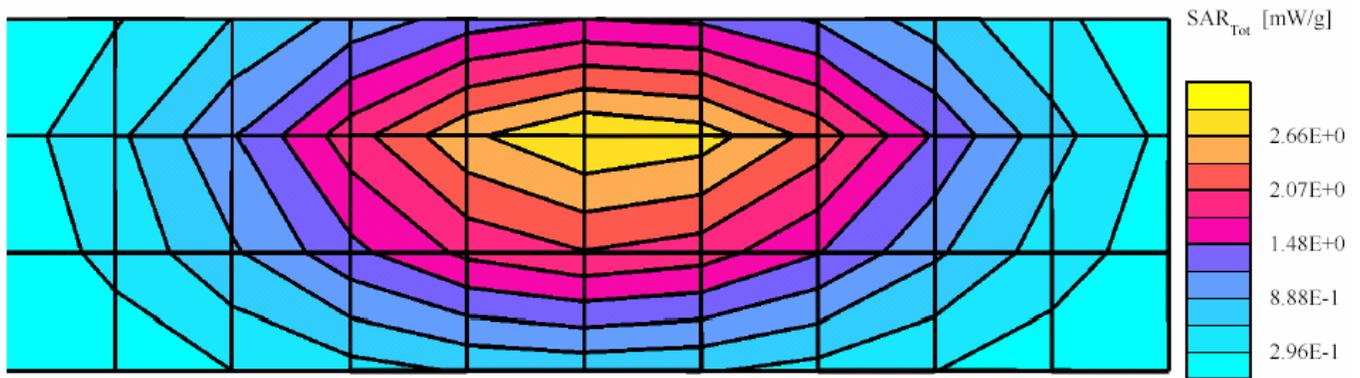
SAR calculated at 1W is 7.40 mW/g (10g avg). Percent from target (including drift) is -1.60 %

SAM; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.60,6.60,6.60); Crest factor: 1.0;

IEEE Head 900 MHz : $\sigma = 1.01\text{mho/m}$ $\epsilon = 41.4$ $\rho = 1.00 \text{ g/cm}^3$; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.85 mW/g ± 0.05 dB, SAR (1g): 3.01 mW/g ± 0.04 dB, SAR (10g): 1.88 mW/g ± 0.03 dB, (Worst-case extrapolation) enetration depth: 11.2 (10.4, 12.3) [mm]

Power drift: 0.07 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/7/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040107-06

TX Freq: 900 MHz

Sim Tissue Temp: 20.5 (Celsius)

Start Power; 250mW

SAR target at 1W is 11.17 mW/g (1g avg, including drift)

SAR target at 1W is 7.11 mW/g (10g avg, including drift)

SAR calculated at 1W is 10.96 mW/g (1g avg). Percent from target (including drift) is -1.88 %

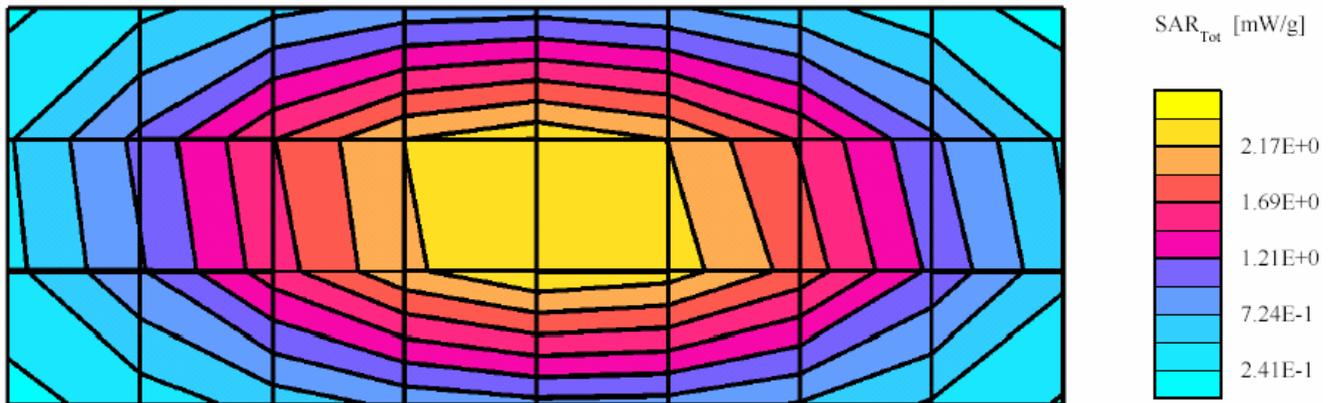
SAR calculated at 1W is 6.92 mW/g (10g avg). Percent from target (including drift) is -2.67 %

Flat Phantom; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.50,6.50,6.50); Crest factor:

1.0; FCC Body 900 MHz: $\sigma = 1.02\text{mho/m}$ $\epsilon = 52.8$ $\rho = 1.00 \text{ g/cm}^3$; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.29 mW/g ± 0.04 dB, SAR (1g): 2.73 mW/g ± 0.04 dB, SAR (10g): 1.74 mW/g ± 0.03 dB, (Worst-case extrapolation) Penetration depth: 12.1 (11.1, 13.5) [mm]

Power drift: 0.00 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/8/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040108-01

TX Freq: 900 MHz

Sim Tissue Temp: 21.0 (Celsius)

Start Power; 250mW

SAR target at 1W is 11.17 mW/g (1g avg, including drift)

SAR target at 1W is 7.11 mW/g (10g avg, including drift)

SAR calculated at 1W is 10.99 mW/g (1g avg). Percent from target (including drift) is -1.65 %

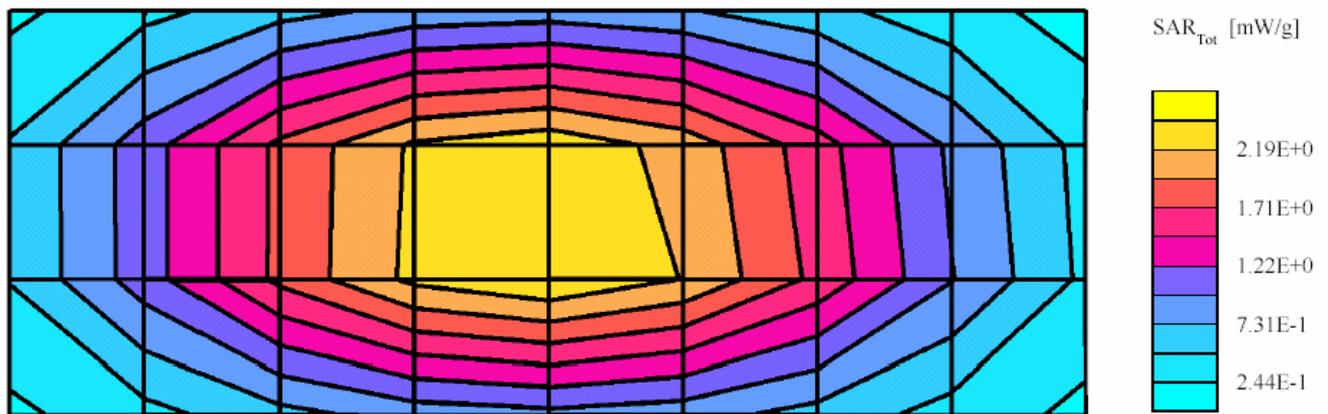
SAR calculated at 1W is 7.02 mW/g (10g avg). Percent from target (including drift) is -1.32 %

Flat Phantom; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.50,6.50,6.50); Crest factor:

1.0; FCC Body 900 MHz: $\sigma = 1.02$ mho/m $\epsilon = 52.7$ $\rho = 1.00$ g/cm³; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.29 mW/g ± 0.04 dB, SAR (1g): 2.74 mW/g ± 0.03 dB, SAR (10g): 1.75 mW/g ± 0.03 dB, (Worst-case extrapolation) Penetration depth: 12.2 (11.1, 13.5) [mm]

Power drift: -0.01 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/9/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040109-01

TX Freq: 900 MHz

Sim Tissue Temp: 21.0 (Celsius)

Start Power; 250mW

SAR target at 1W is 11.17 mW/g (1g avg, including drift)

SAR target at 1W is 7.11 mW/g (10g avg, including drift)

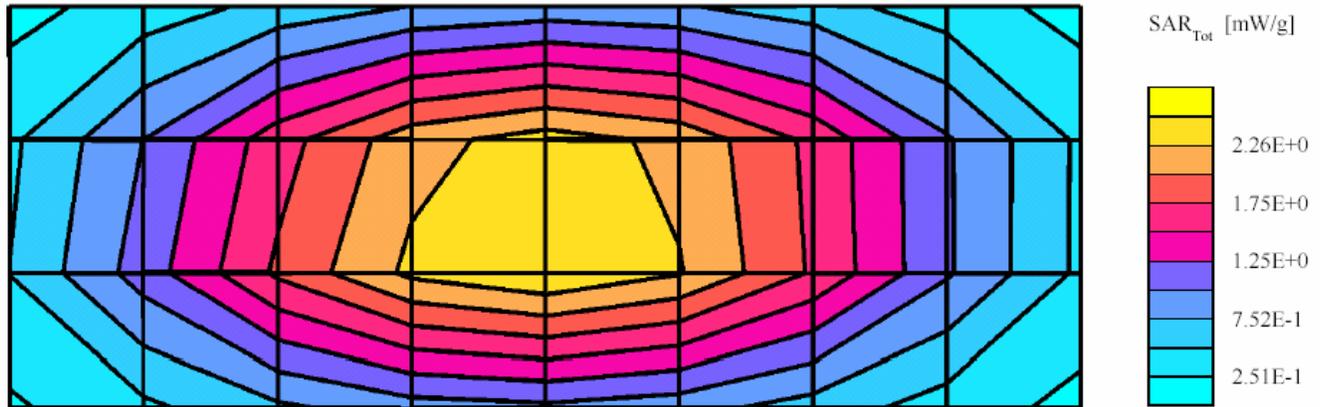
SAR calculated at 1W is 11.17 mW/g (1g avg). Percent from target (including drift) is 0.01 %

SAR calculated at 1W is 7.11 mW/g (10g avg). Percent from target (including drift) is 0.04 %

Flat Phantom; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.50,6.50,6.50); Crest factor: 1.0; FCC Body 900 MHz: $\sigma = 1.03$ mho/m $\rho = 52.7$ $\bar{n} = 1.00$ g/cm³; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.36 mW/g \pm 0.04 dB, SAR (1g): 2.78 mW/g \pm 0.04 dB, SAR (10g): 1.77 mW/g \pm 0.04 dB, (Worst-case extrapolation) Penetration depth: 12.1 (11.1, 13.5) [mm]

Power drift: -0.02 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/13/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040113-01

TX Freq: 900 MHz

Sim Tissue Temp: 21.1 (Celsius)

Start Power; 250mW

SAR target at 1W is 11.17 mW/g (1g avg, including drift)

SAR target at 1W is 7.11 mW/g (10g avg, including drift)

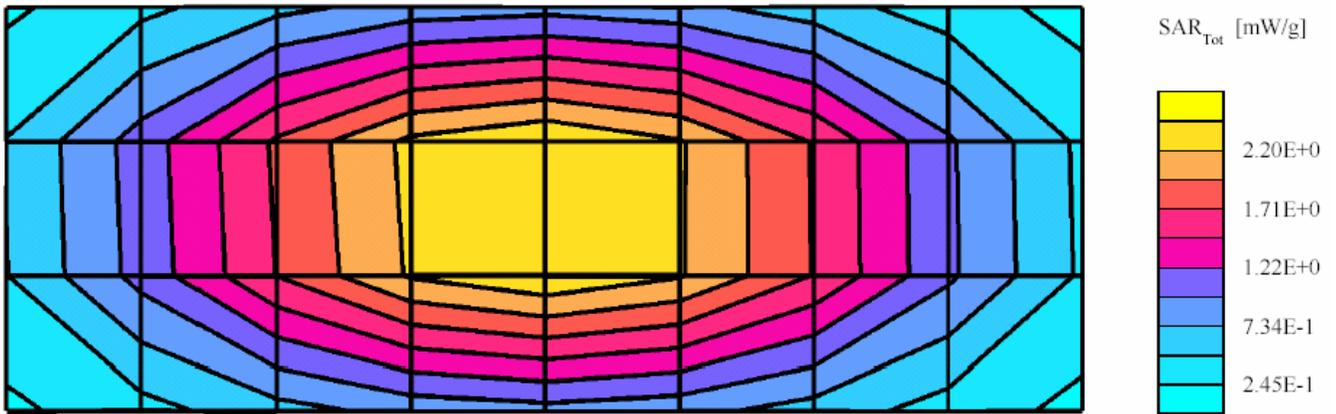
SAR calculated at 1W is 11.17 mW/g (1g avg). Percent from target (including drift) is 0.01 %

SAR calculated at 1W is 7.11 mW/g (10g avg). Percent from target (including drift) is 0.04 %

Flat Phantom; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.50,6.50,6.50); Crest factor: 1.0; FCC Body 900 MHz: $\sigma = 1.03$ mho/m $\epsilon = 52.7$ $\rho = 1.00$ g/cm³; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.36 mW/g \pm 0.03 dB, SAR (1g): 2.78 mW/g \pm 0.03 dB, SAR (10g): 1.77 mW/g \pm 0.03 dB, (Worst-case extrapolation) Penetration depth: 12.1 (11.2, 13.4) [mm]

Power drift: -0.02 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 085; Test Date: 1/13/04

Motorola CGISS EME Lab

Run #: Sys Perf-R1-040113-09

TX Freq: 900 MHz

Sim Tissue Temp: 20.0 (Celsius)

Start Power; 250mW

SAR target at 1W is 12.00 mW/g (1g avg, including drift)

SAR target at 1W is 7.52 mW/g (10g avg, including drift)

SAR calculated at 1W is 12.04 mW/g (1g avg). Percent from target (including drift) is 0.33 %

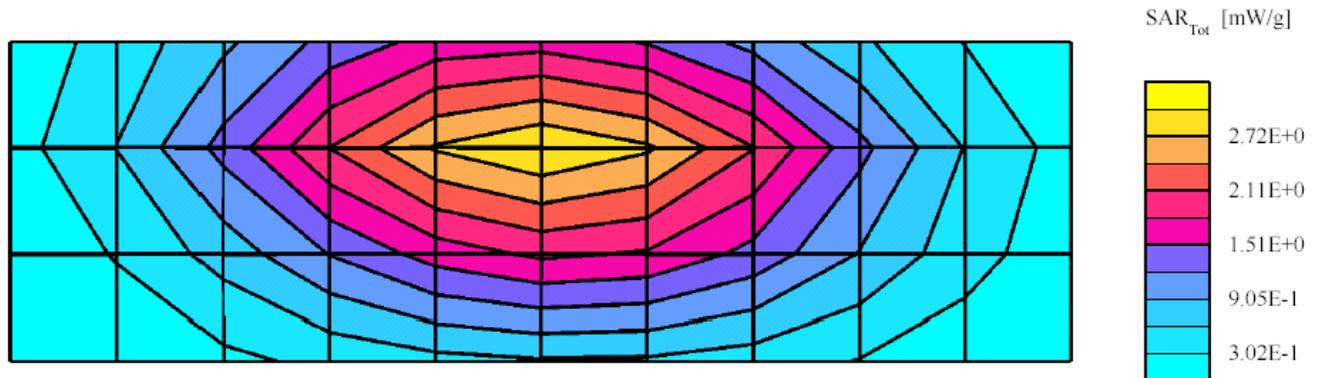
SAR calculated at 1W is 7.52 mW/g (10g avg). Percent from target (including drift) is 0.00 %

SAM; Probe: ET3DV6 - SN1384(Cal Date 05-15-2003);Probe Cal Date: 15/05/03ConvF(6.60,6.60,6.60); Crest factor: 1.0;

IEEE Head 900 MHz : $\sigma = 1.01$ mho/m $\epsilon = 41.3$ $\rho = 1.00$ g/cm³; DAE3: SN363-V1 DAE Cal Date: 05/13/2003

Cubes (2): Peak: 4.84 mW/g ± 0.03 dB, SAR (1g): 3.01 mW/g ± 0.02 dB, SAR (10g): 1.88 mW/g ± 0.02 dB, (Worst-case extrapolation) Penetration depth: 11.1 (10.3, 12.2) [mm]

Power drift: 0.00 dB



SYSTEM VALIDATION

Date:	<u>12/16/2003</u>	Frequency (MHz):	<u>900</u>
Lab Location:	<u>CGISS</u>	Mixture Type:	<u>IEEE Head</u>
Robot System:	<u>CGISS-3</u>	Ambient Temp.(°C):	<u>22.8</u>
Probe Serial #:	<u>ET3DV6-1393</u>	Tissue Temp.(°C):	<u>20.9</u>
DAE Serial #:	<u>406</u>		

Tissue Characteristics

Permittivity:	<u>41.5</u>	Phantom Type/SN:	<u>SAMTP1208</u>
Conductivity:	<u>1.00</u>	Distance (mm):	<u>15 (tissue/dipole cnt)</u>

Reference Source:	<u>900V2</u>	(Dipole)
Reference SN:	<u>85</u>	

Power to Dipole:	<u>250</u>	mW
Power Output (radio):	<u>NA</u>	mW

Target SAR Value:	<u>10.8</u>	mW/g,	<u>6.9</u>	mW/g (10g avg.)
(normalized to 1.0 W)				

Measured SAR Value:	<u>3</u>	mW/g,	<u>1.88</u>	mW/g (10g avg.)
Power Drift:	<u>0</u>	dB		

Measured SAR Value:	<u>12.00</u>	mW/g,	<u>7.52</u>	mW/g (10g avg.)
(normalized to 1.0 W, including drift)				

Percent Difference From Target (MUST be within System Uncertainty):	<u>11.11</u>	% (1g ave)
	<u>8.99</u>	% (10g ave)

Test performed by:	<u>Edward R. Church</u>	Initial:	<u>EC</u>
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SPEAG DIPOLE D900V2; Test date:12/16/03

Run #: Sys Val-R3-031216-03
Model #: D900V2
Robot: CGISS-3
TX Freq: 900 MHz
Start Power: 250mW
DAE3: SN: 406

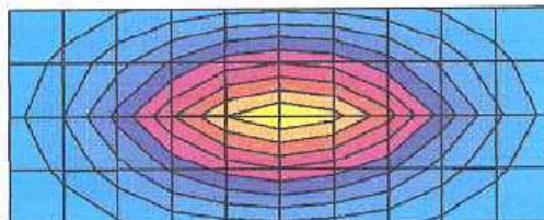
Phantom #:SAMTP1208
SN: 085
Tester: E. Church
Sim Tissue Temp: 20.9 (Celsius)
DAE Cal Date: 11/20/03

- Comments-

IEEE 1528 Target at 1W is 10.04 mW/g (1g) and 6.9 mW/g (10g avg.)

SAR calculated 1g is 11.96 mW/g percent from target (including drift) + 10.74 %
SAR Calculated 10g is 7.52 mW/g Percent from target (including drift) is + 8.99 %

SAM; Probe: ET3DV6 - SN1393 (Cal Date 16 April 2003) ; ConvF(7.00,7.00,7.00); Crest factor: 1.0; IEEE
Head 900 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³
Cubes (2): Peak: 4.78 mW/g ± 0.04 dB, SAR (1g): 3.00 mW/g ± 0.04 dB, SAR (10g): 1.88 mW/g ± 0.05
dB, (Worst-case extrapolation)
Penetration depth: 11.2 (10.5, 12.3) [mm]
Powerdrift: 0.00 dB



SAR_{Tot} [mW/g]



SYSTEM PERFORMANCE CHECK TARGET SAR

Date: 12/16/2003 Frequency (MHz): 900
Lab Location: CGISS Mixture Type: FCC Body
Robot System: CGISS-3 Ambient Temp.(°C): 22.7
Probe Serial #: ET3DV6-1393 Tissue Temp.(°C): 21
DAE Serial #: 406

Tissue Characteristics

Permittivity: 52.6 Phantom Type/SN: 80302002A-S8
Conductivity: 1.03 Distance (mm): 15 (tissue/dipole cnt)

Reference Source: 900 (Dipole)
Reference SN: 85

Power to Dipole: 250 mW

Measured SAR Value: 2.78 mW/g, 1.77 mW/g (10g avg.)
Power Drift: -0.02 dB

New Target/Measured
SAR Value: 11.17 mW/g, 7.11 mW/g (10g avg.)
(normalized to 1.0 W, including drift)

Test performed by: Edward R. Church Initial: ERC

SPEAG DIPOLE D900V2; Test date:12/16/03

Run #: Sys Perf-R3-031216-06

Phantom #: 80302002A-S8

Model #: D900V2

SN: 085

Robot: CGISS-3

Tester: E. Church

TX Freq: 900 MHz

Sim Tissue Temp: 21.0 (Celsius)

Start Power: 250mW

DAE3: SN: 406

DAE Cal Date: 11/20/03

- Comments-

New Target at 1W is calc SAR values 11.17 mW/g (1g) and 7.11 mW/g (10g avg.)

SAR calculated 1g is 11.17 mW/g percent from target (including drift) 0%

SAR Calculated 10g is 7.11 mW/g Percent from target (including drift) is 0%

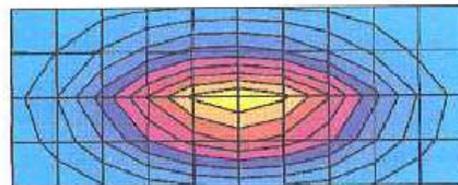
Flat; Probe: ET3DV6 - SN1393 (Cal Date 16 April 2003); ConvF(6.80,6.80,6.80); Crest factor: 1.0; FCC

Body 900MHz: $\sigma = 1.03$ mho/m $\epsilon_r = 52.6$ $\rho = 1.00$ g/cm³

Cubes (2): Peak: 4.34 mW/g ± 0.03 dB, SAR (1g): 2.78 mW/g ± 0.03 dB, SAR (10g): 1.77 mW/g ± 0.03 dB, (Worst-case extrapolation)

Penetration depth: 12.1 (11.2, 13.3) [mm]

Powerdrift: -0.02 dB



SAR_{Tot} [mW/g]



APPENDIX D
Calibration Certificates

Client **Motorola CGISS**

CALIBRATION CERTIFICATE

Object(s) **ET3DV6 - SN:1384**

Calibration procedure(s) **QA CAL-01.v2
Calibration procedure for dosimetric E-field probes**

Calibration date: **May 15, 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 (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 Nicola Vetterli	Function Technician	Signature 
Approved by:	Name Katja Pokornic	Function Laboratory Director	Signature 

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.

DASY - Parameters of Probe: ET3DV6 SN:1384**Sensitivity in Free Space**

NormX	$1.76 \mu\text{V}/(\text{V}/\text{m})^2$
NormY	$1.72 \mu\text{V}/(\text{V}/\text{m})^2$
NormZ	$1.89 \mu\text{V}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	92	mV
DCP Y	92	mV
DCP Z	92	mV

Sensitivity in Tissue Simulating Liquid

Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

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

ConvF X	6.6 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	6.6 $\pm 9.5\%$ (k=2)	Alpha 0.45
ConvF Z	6.6 $\pm 9.5\%$ (k=2)	Depth 2.42

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

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

ConvF X	5.4 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	5.4 $\pm 9.5\%$ (k=2)	Alpha 0.55
ConvF Z	5.4 $\pm 9.5\%$ (k=2)	Depth 2.56

Boundary Effect

Head 900 MHz Typical SAR gradient: 5 % per mm

Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%]	Without Correction Algorithm	11.4	6.3
SAR _{be} [%]	With Correction Algorithm	0.4	0.7

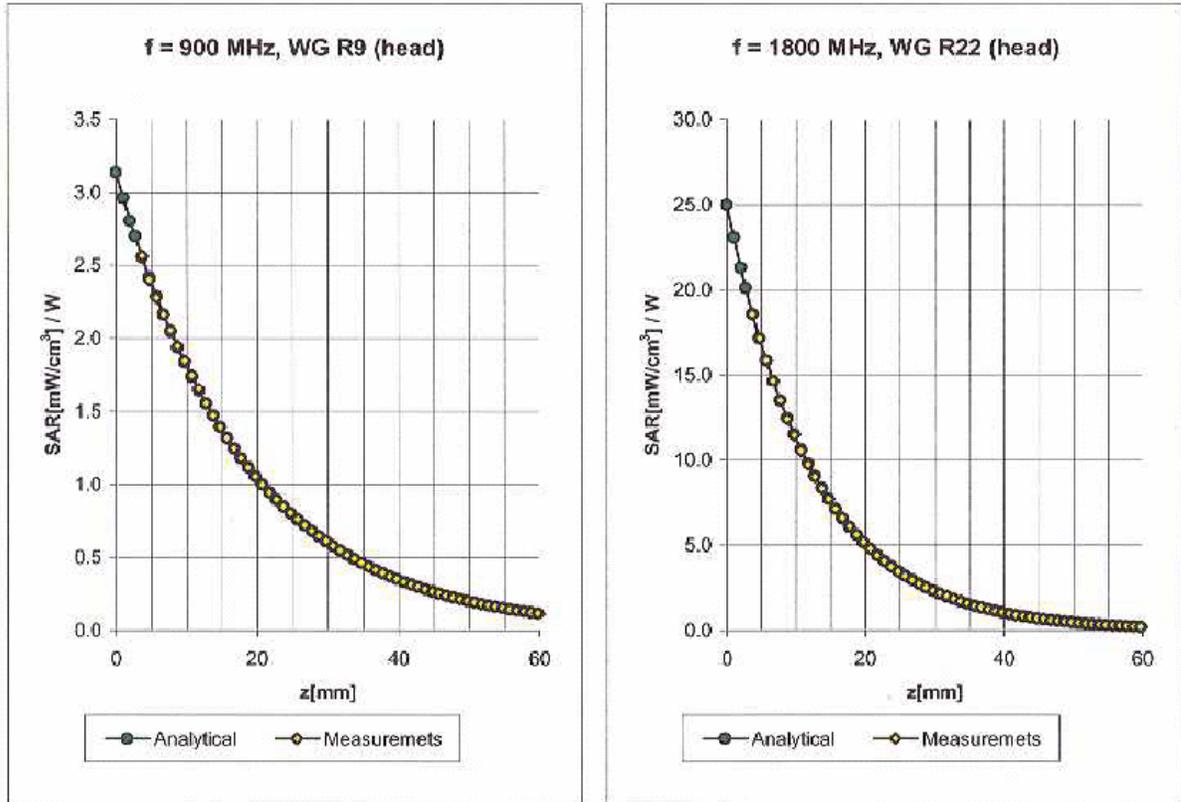
Head 1800 MHz Typical SAR gradient: 10 % per mm

Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%]	Without Correction Algorithm	14.7	9.5
SAR _{be} [%]	With Correction Algorithm	0.1	0.0

Sensor Offset

Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.5 \pm 0.2	mm

Conversion Factor Assessment



Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

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

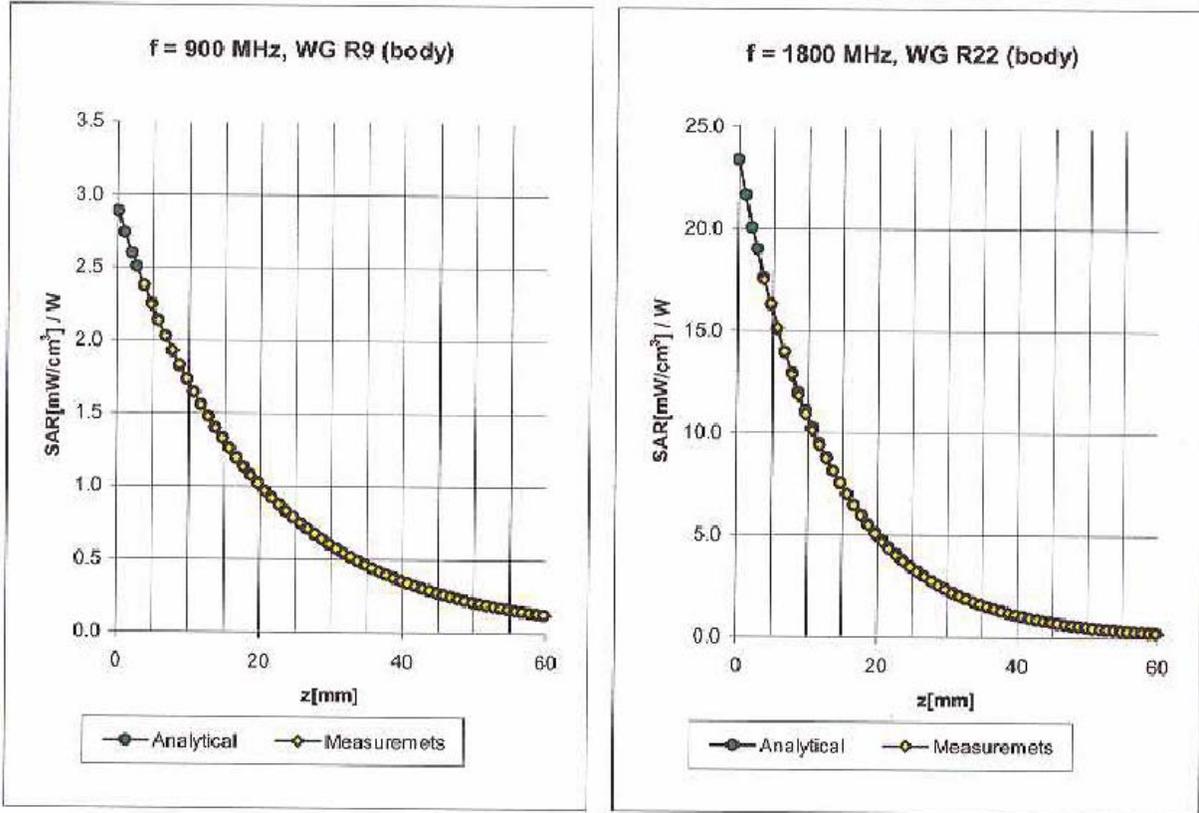
ConvF X	6.6 ± 9.5% (k=2)	Boundary effect:	
ConvF Y	6.6 ± 9.5% (k=2)	Alpha	0.45
ConvF Z	6.6 ± 9.5% (k=2)	Depth	2.42

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

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

ConvF X	5.4 ± 9.5% (k=2)	Boundary effect:	
ConvF Y	5.4 ± 9.5% (k=2)	Alpha	0.55
ConvF Z	5.4 ± 9.5% (k=2)	Depth	2.56

Conversion Factor Assessment



Body 900 MHz $\epsilon_r = 55.0 \pm 5\%$ $\sigma = 1.05 \pm 5\%$ mho/m

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

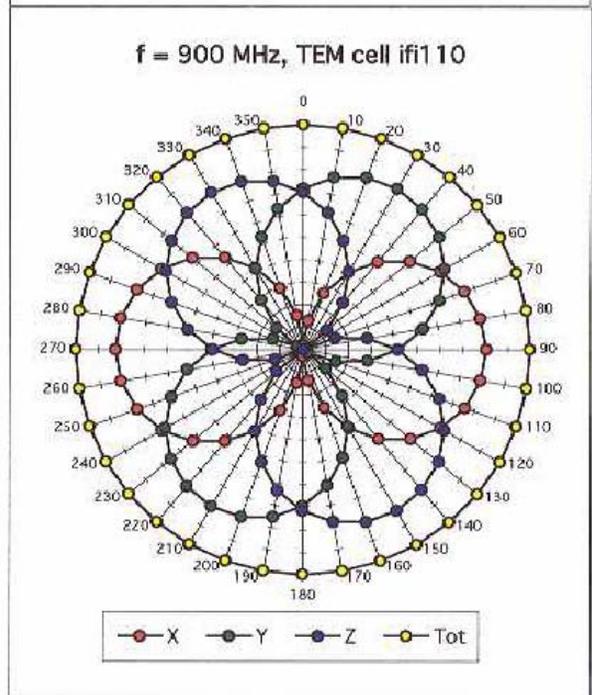
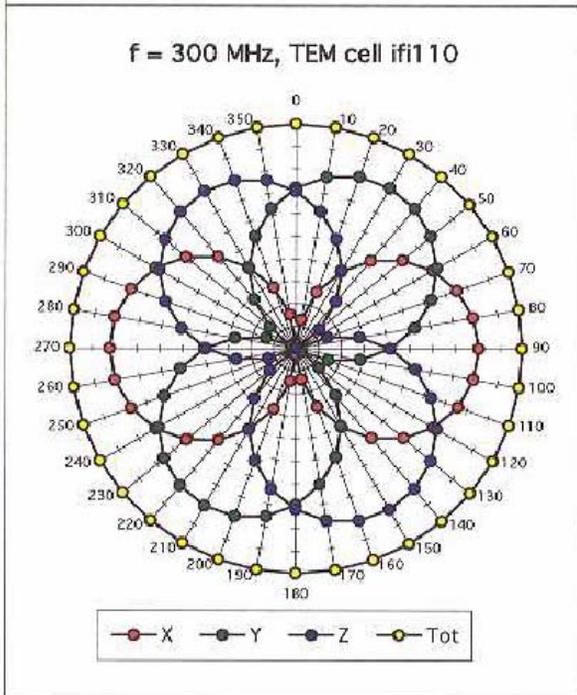
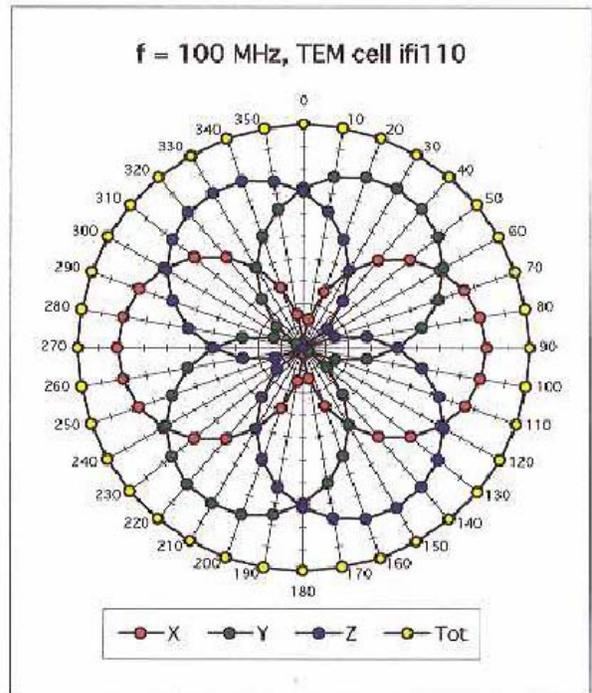
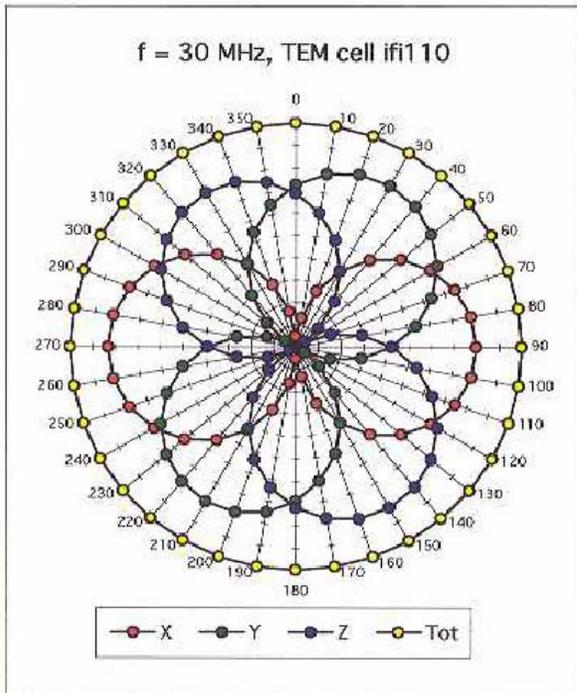
ConvF X	6.5 ± 9.5% (k=2)	Boundary effect:	
ConvF Y	6.5 ± 9.5% (k=2)	Alpha	0.44
ConvF Z	6.5 ± 9.5% (k=2)	Depth	2.51

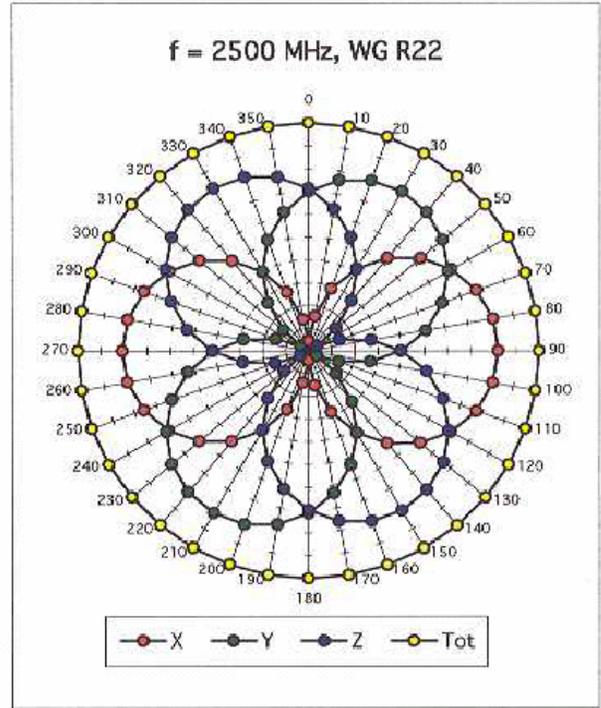
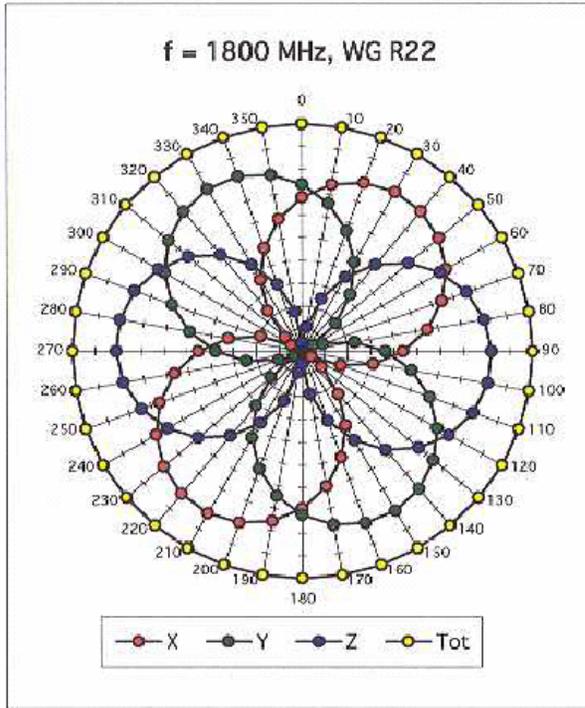
Body 1800 MHz $\epsilon_r = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\%$ mho/m

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

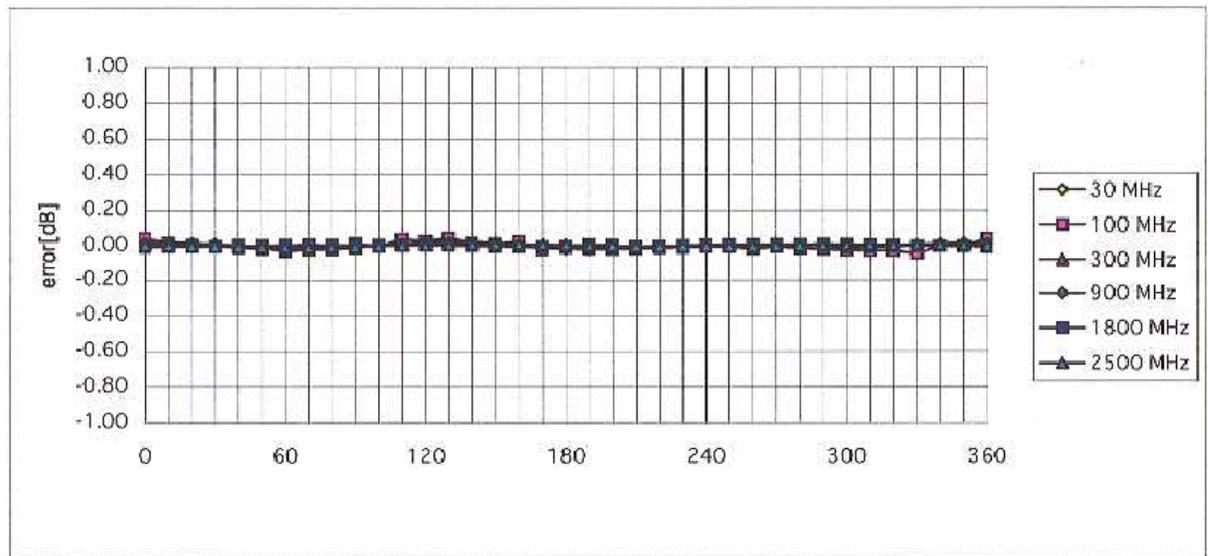
ConvF X	5.0 ± 9.5% (k=2)	Boundary effect:	
ConvF Y	5.0 ± 9.5% (k=2)	Alpha	0.64
ConvF Z	5.0 ± 9.5% (k=2)	Depth	2.49

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



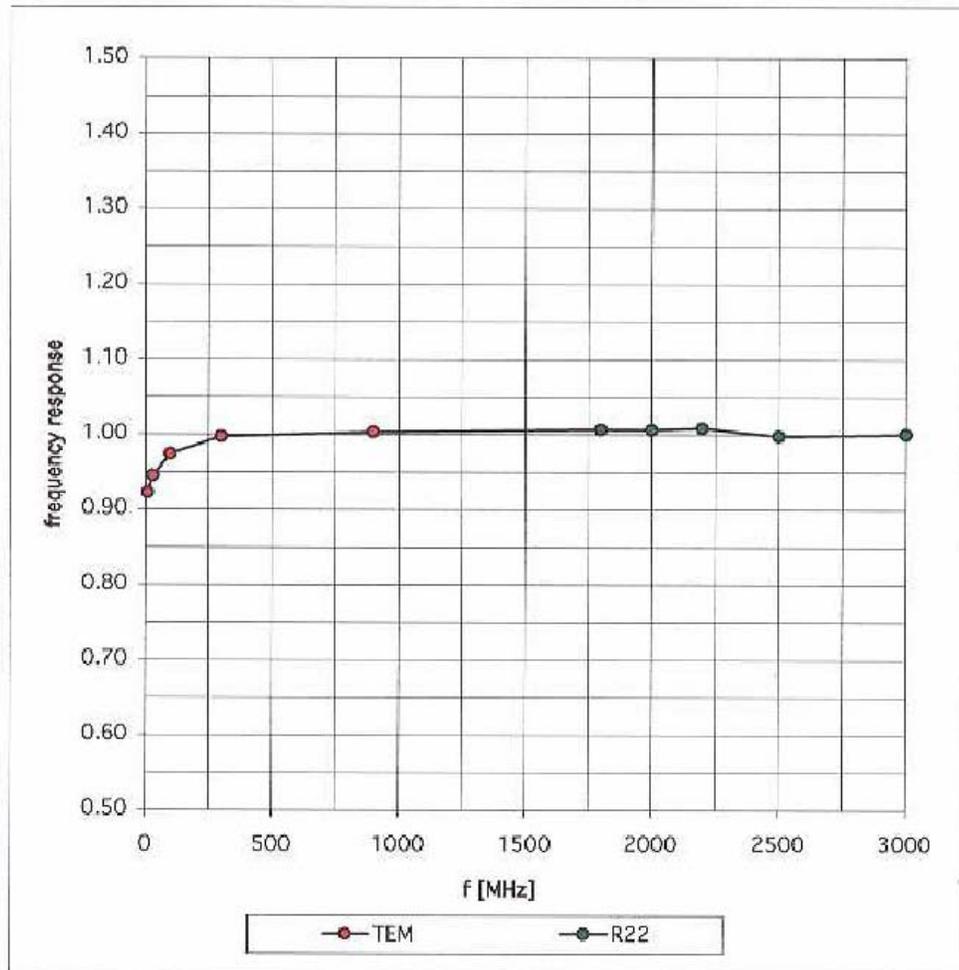


Isotropy Error (ϕ), $\theta = 0^\circ$



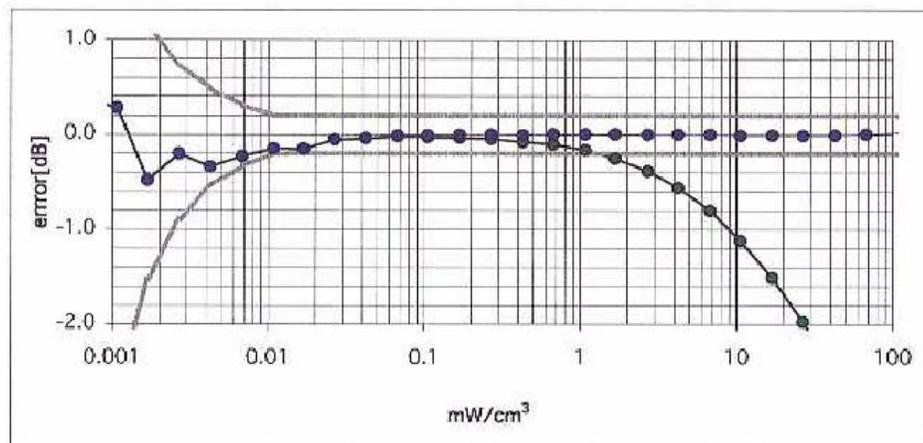
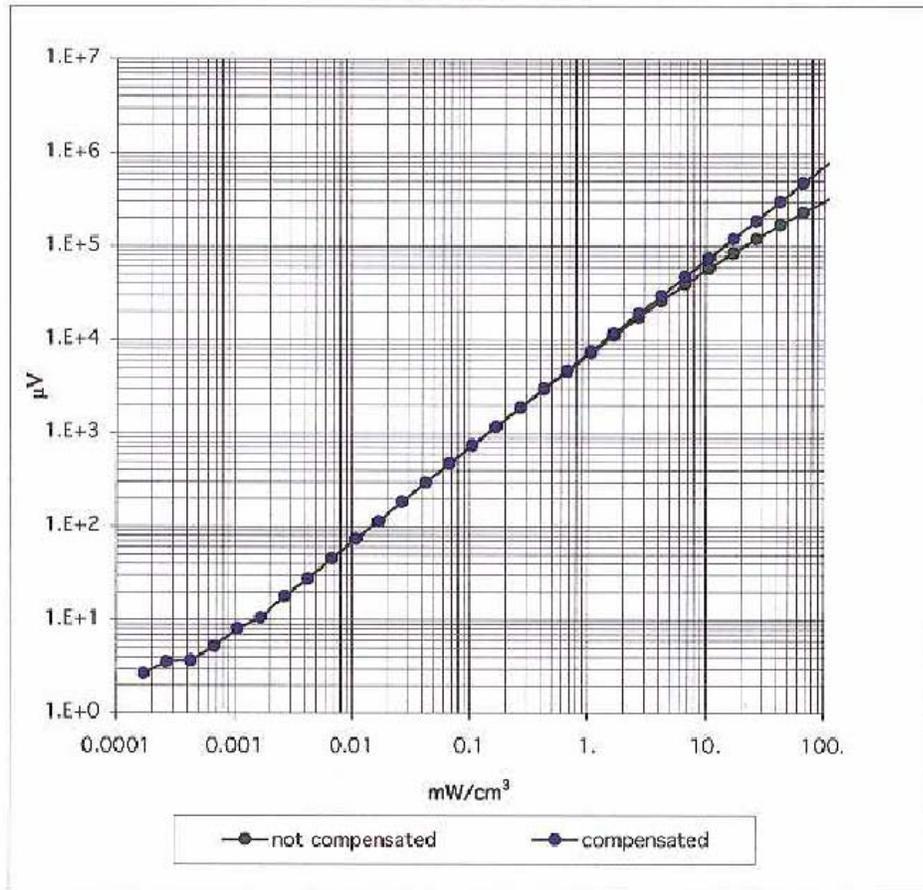
Frequency Response of E-Field

(TEM-Cell:ifi110, Waveguide R22)



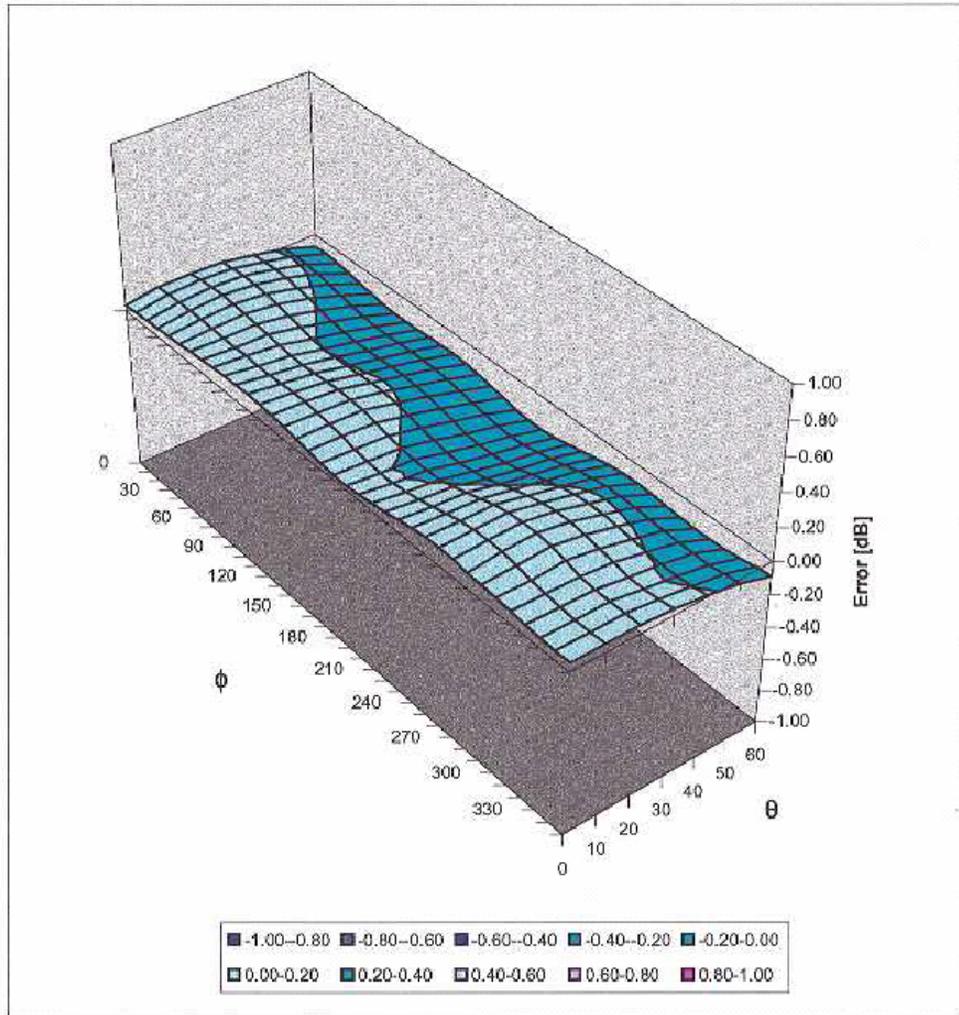
Dynamic Range f(SAR_{brain})

(Waveguide R22)



Deviation from Isotropy in HSL

Error (θ, ϕ), $f = 900$ MHz



Schmid & Partner Engineering AG

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

Calibration Certificate

900 MHz System Validation Dipole

Type:

D900V2

Serial Number:

085

Place of Calibration:

Zurich

Date of Calibration:

August 27, 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:

N. Vetter

Approved by:

Alain Klatz

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 900 MHz:

Relative Dielectricity	41.7	± 5%
Conductivity	0.97 mho/m	± 5%

The DASY System with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 6.5 at 900 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 15mm 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.

2.1. SAR Measurement with DASY3 System

Standard SAR-measurements were performed according to the measurement conditions described in section 1. The results (see figure supplied) have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ET3DV6 SN:1507 and applying the worst-case extrapolation are:

averaged over 1 cm ³ (1 g) of tissue:	11.0 mW/g
averaged over 10 cm ³ (10 g) of tissue:	6.92 mW/g

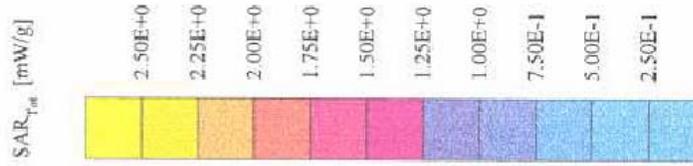
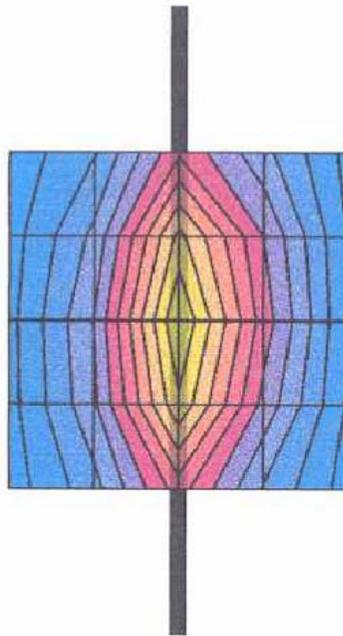
2.2. SAR Measurement with DASY4 System

Standard SAR-measurements were performed according to the measurement conditions described in section 1. The results (see figure supplied) have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ET3DV6 SN:1507 and applying the advanced extrapolation are:

averaged over 1 cm ³ (1 g) of tissue:	10.3 mW/g
averaged over 10 cm ³ (10 g) of tissue:	6.64 mW/g

Validation Dipole D900V2 SN:085, d=15 mm

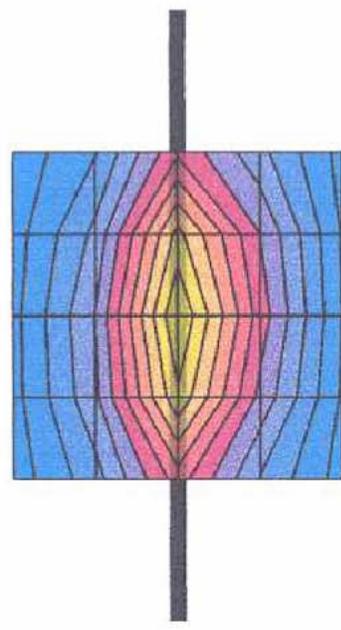
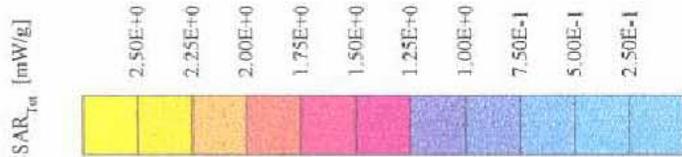
Frequency: 900 MHz, Antenna Input Power: 250 [mW]
SAM Phantom, Flat Section, Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0
Probe: ET3DV6 - SN1507; ConvF(6.50,6.50,6.50) at 900 MHz; IEEE 1528 900 MHz; $\sigma = 0.97$ mho/m $\epsilon_r = 41.7$ $\rho = 1.00$ g/cm³
Cubes (2): Peak: 4.34 mW/g ± 0.01 dB, SAR (1g): 2.74 mW/g ± 0.01 dB, SAR (10g): 1.73 mW/g ± 0.02 dB, (Worst-case extrapolation)
Penetration depth: 11.6 (10.8, 12.8) [mm]
Powerdrift: -0.00 dB



08/27/02

Validation Dipole D900V2 SN:085, d=15 mm

Frequency: 900 MHz; Antenna Input Power: 250 [mW]
SAM Phantom; Flat Section; Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0
Probe: ET3DV6 - SNI507; ConvF(6.50,6.50,6.50) at 900 MHz; IEEE 1528 900 MHz; $\sigma = 0.97$ mho/m, $\epsilon_r = 41.7$, $\rho = 1.00$ g/cm³
Cubes (2): Peak: 3.85 mW/g \pm 0.01 dB, SAR (1g): 2.57 mW/g \pm 0.01 dB, SAR (10g): 1.66 mW/g \pm 0.02 dB, (Advanced extrapolation)
Penetration depth: 12.6 (12.4, 12.9) [mm]
Powerdrift: -0.00 dB



Schmid & Partner Engineering AG, Zurich, Switzerland

APPENDIX E
Illustration of Body-Worn Accessories

The purpose of this appendix is to illustrate the body-worn carry accessories for FCC ID: AZ489FT5827. The sample that was used in the following photos represents the product used to obtain the results presented herein and was used in this section to demonstrate the different body-worn accessories.



Photo 1.
Model NNTN4747A
Back View



Photo 2.
Model NNTN4747A
Side View



Photo 3.
Model NNTN4756A
Front View



Photo 4.
Model NNTN4756A
Side View

Appendix F

Accessories and options test status and separation distances

The following table summarizes the test status and separation distance provided by each of the body-worn accessories:

Carry Case Models	Tested ?	Separation distances between DUT antenna and phantom surface. (mm)	Comments
NNTN4747A	Yes	25-27	NA
NNTN4756A	Yes	31-35	NA

Audio Acc. Models	Tested ?	Separation distances between DUT antenna and phantom surface. (mm)	Comments
NNTN4620A	Yes	NA	NA
SYN8146C	Yes	NA	NA
SYN7875C	Yes	NA	NA
NTN8496A	Yes	NA	NA
NTN8513B	Yes	NA	NA
SYN8390B	Yes	NA	NA
NNTN4033A	Yes	NA	NA
NSN6066A	Yes	NA	NA
NNTN5004A	Yes	NA	NA
NNTN5005A	Yes	NA	NA

Data cables Models	Tested ?	Separation distances between DUT antenna and phantom surface. (mm)	Comments
NKN6560A	Yes	NA	NA
NKN6559A	Yes	NA	NA

Other attachments Models	Tested ?	Separation distances between DUT antenna and phantom surface. (mm)	Comments
NNTN5508A	Yes	NA	Tested w/ 600mAh battery
NNTN5507A	Yes	NA	Tested w/ 750mAh battery