



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: August 28, 2003
Report Revision: Rev. O
Manufacturer: Motorola
Product Description: 1:6, 2:6, 81:120, 1:12 TDM; 64 QAM, 16 QAM & QPSK Modulation; 0.6 W Pulse average; w/ GPS capability.
FCC ID: **AZ489FT5822**
Device Model: H62XAH6RR1AN/NUF3763A

Test Period: 8/11/03-8/21/03

EME Tech: Clint Miller

EME Eng.: Kim Uong (EME Lead 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.

Signature on File

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

8/28/03

Date Approved

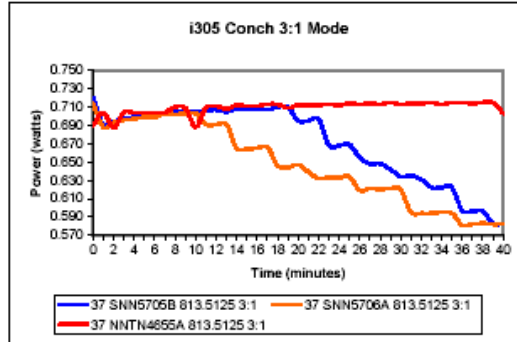
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APPENDIX A

Power Slump Data/Shortened Scan

DUT Power versus time data

Radio s/n	37	37	37
Battery	SNN5705B	SNN5706A	NNTN4855A
Frequency	813.5125	813.5125	813.5125
Mode	3:1	3:1	3:1
0	0.720	0.714	0.690
1	0.690	0.688	0.704
2	0.694	0.693	0.687
3	0.697	0.696	0.704
4	0.699	0.697	0.704
5	0.701	0.699	0.704
6	0.702	0.699	0.704
7	0.702	0.703	0.704
8	0.705	0.702	0.710
9	0.704	0.703	0.709
10	0.705	0.703	0.688
11	0.706	0.691	0.709
12	0.707	0.691	0.711
13	0.705	0.691	0.708
14	0.708	0.665	0.712
15	0.708	0.664	0.711
16	0.708	0.665	0.711
17	0.707	0.666	0.713
18	0.710	0.646	0.713
19	0.710	0.644	0.709
20	0.695	0.647	0.712
21	0.695	0.639	0.712
22	0.697	0.632	0.712
23	0.668	0.633	0.713
24	0.668	0.633	0.712
25	0.669	0.634	0.714
26	0.655	0.619	0.713
27	0.648	0.621	0.714
28	0.648	0.620	0.713
29	0.642	0.621	0.715
30	0.634	0.620	0.713
31	0.635	0.595	0.714
32	0.631	0.594	0.714
33	0.622	0.594	0.715
34	0.622	0.595	0.713
35	0.622	0.594	0.715
36	0.597	0.581	0.715
37	0.596	0.582	0.714
38	0.596	0.583	0.715
39	0.583	0.582	0.715
40	0.582	0.582	0.703



Shortened Scan Results

FCC ID: AZ489FT5822; Test Date: 8/21/03

Motorola CGISS EME Laboratory

Run #: KU-R2-030821-03

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 21.0 (Celsius)

Start Power = 0.687 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: None

Cable Accy: NONE

Shortened scan reflect highest S.A.R. producing configuration; Run time 8 minutes.

Representative “normal” scan run time was 26 minutes

“Shortened” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.19 mW/g; 10-g Avg. = 0.78mW/g

“Normal” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.46 mW/g; 10-g Avg. = 0.95 mW/g
(see section 7.1 run # CM-R2-030811-03)

DUT in cheek touch position Left Ear

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

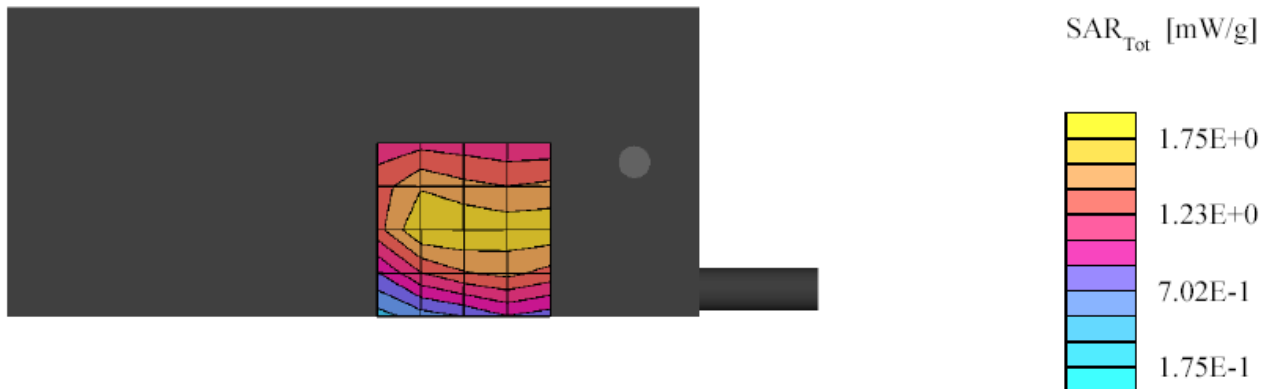
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE

HEAD 813MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.4$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 5x5x7: SAR (1g): 1.17 mW/g, SAR (10g): 0.768 mW/g, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0; SAR (1g): 1.17 mW/g, SAR (10g): 0.768 mW/g

Power Drift: 0.04 dB

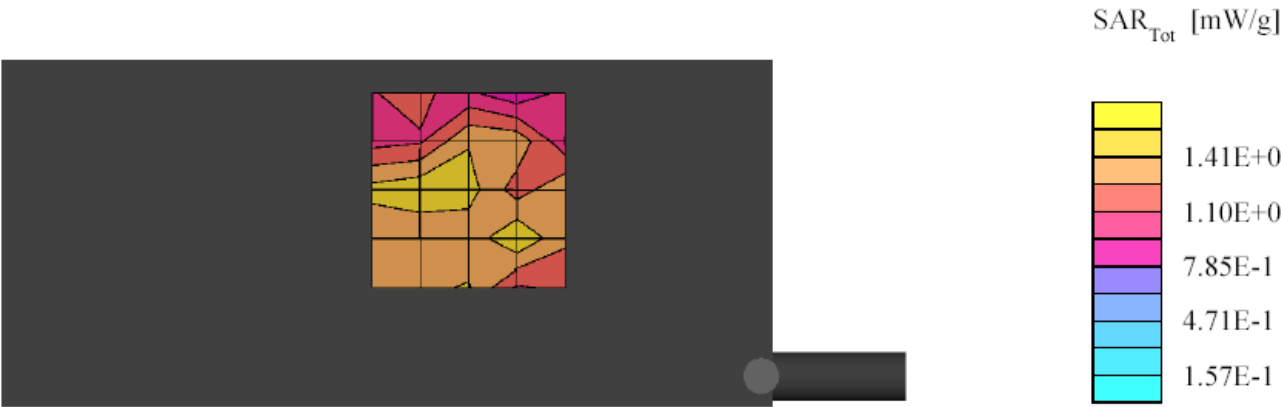


FCC ID: AZ489FT5822; Test Date: 8/20/03
Motorola CGISS EME Laboratory
Run #: KU-R2-030820-07
Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037
TX Freq: 813.5125 MHz
Simulated tissue temp: 20.9(Celsius)
Start Power = 0.697 W

Antenna: IN
Battery Kit: SNN5706A
Carry Accy: NNTN4755A
Cable Accy: NONE

Shortened scan reflect highest S.A.R. producing configuration; Run time 7 minutes.
Representative “normal” scan run time was 28 minutes
“Shortened” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.08 mW/g; 10-g Avg. = 0.79 mW/g
“Normal” scan max calculated S.A.R. using S.A.R. drift: 1-g Avg. = 1.16 mW/g; 10-g Avg. = 0.84 mW/g
(see section 7.1 run # KU-R2-030814-09)

DUT w/ carry case against phantom
Flat Phantom; Flat Abdomen Section; Position: (90°,90°);
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 1.5; FCC
Body 813: $\sigma = 0.94$ mho/m $\epsilon = 53.3$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02
Cube 5x5x7: SAR (1g): 1.08 mW/g, SAR (10g): 0.788 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0; SAR (1g): 1.08 mW/g, SAR (10g): 0.788 mW/g
Power Drift: 0.36 dB



APPENDIX B

Data Results

FCC ID: AZ489FT5822; Test Date: 8/11/03

Motorola CGISS EME Laboratory

RUN #: CM-R2-030811-03

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 20.8 (Celsius)

Start Power: 0.695 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: NONE

Cable Accy: NONE

DUT at Left ear; Touch position

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

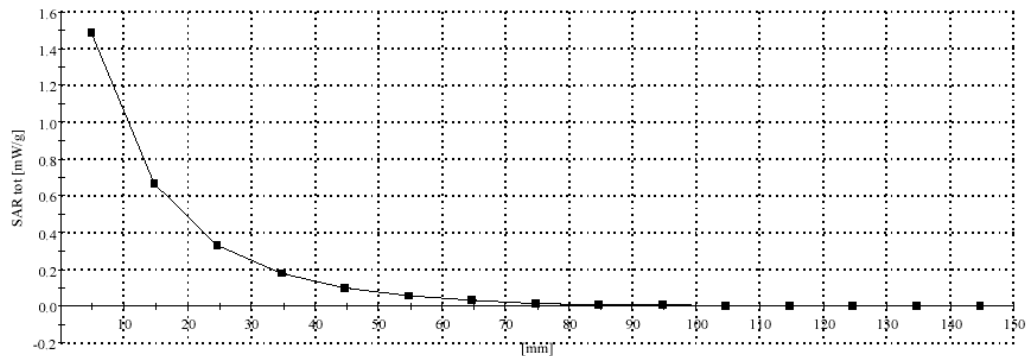
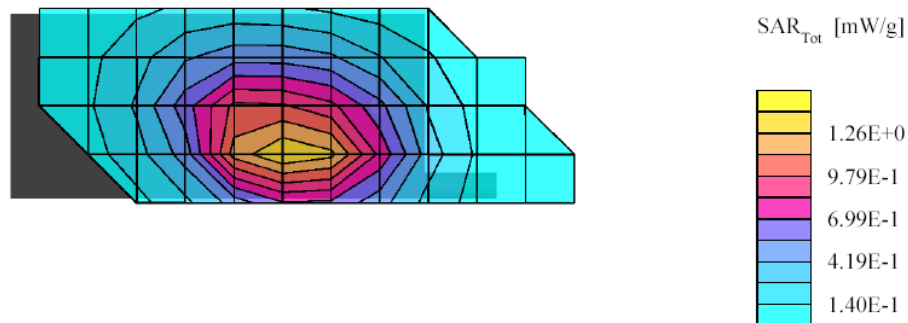
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE

HEAD 813MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.8$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 1.45 mW/g, SAR (10g): 0.942 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 79.5, 13.5, 4.7

Power Drift: 0.16 dB



FCC ID: AZ489FT5822; Test Date: 8/12/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030812-03

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 21.0 (Celsius)

Start Power: 0.707 W

Antenna: IN

Battery Kit: NNTN4655A

Carry Accy: None

Cable Accy: NONE

DUT at Right ear; Touch position

SAM - Expanded Phantom; Right Hand Section; Position: (90°,301°);

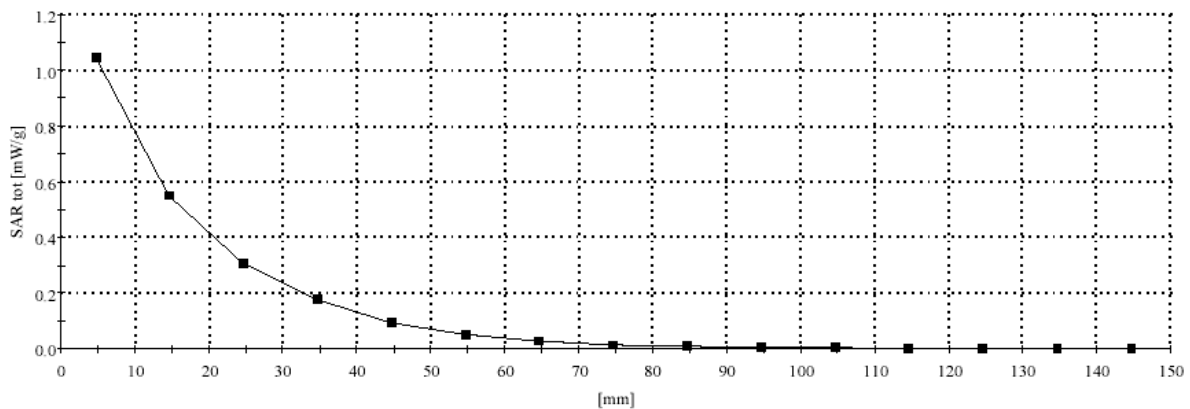
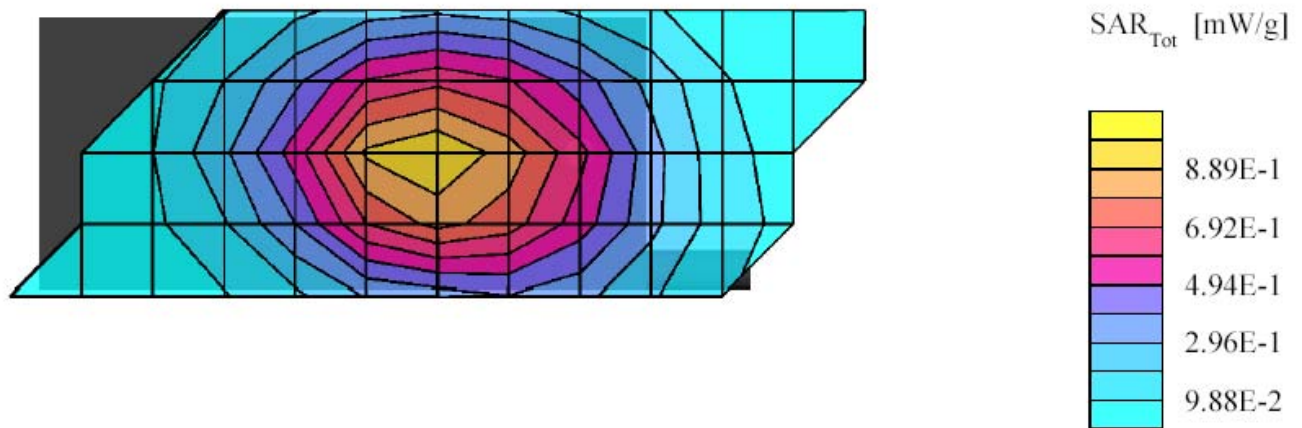
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE

HEAD 813MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.7$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 1.02 mW/g, SAR (10g): 0.709 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 100.5, 28.5, 4.7

Power Drift: 0.07 dB



FCC ID: AZ489FT5822; Test Date: 8/12/03

Motorola CGISS EME Laboratory

RUN #: CM-R2-030812-07

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 806.0125 MHz

Simulated tissue temp: 20.3 (Celsius)

Start Power: 0.691 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: NONE

Cable Accy: NONE

DUT at the Left ear; Touch position

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

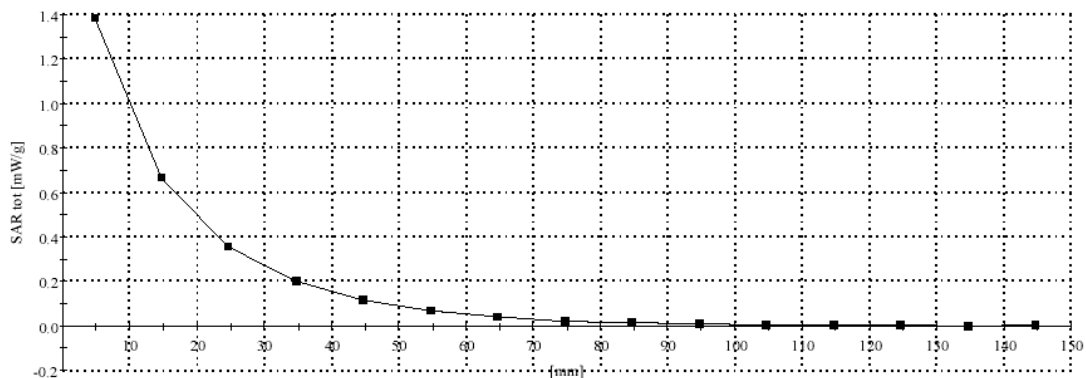
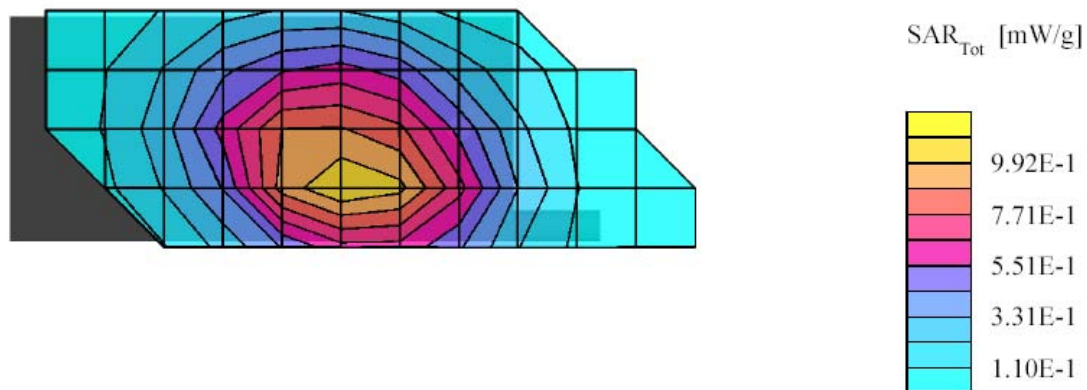
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE

HEAD 813MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.7$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 1.37 mW/g, SAR (10g): 0.906 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 78.0, 15.0, 4.7

Power Drift: 0.92 dB



FCC ID: AZ489FT5822; Test Date: 8/14/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030814-05

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 806.0125 MHz

Simulated tissue temp: 20.7 (Celsius)

Start Power: 0.690 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: NONE

Cable Accy: NONE

DUT Front towards phantom with 2.5 cm separation

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

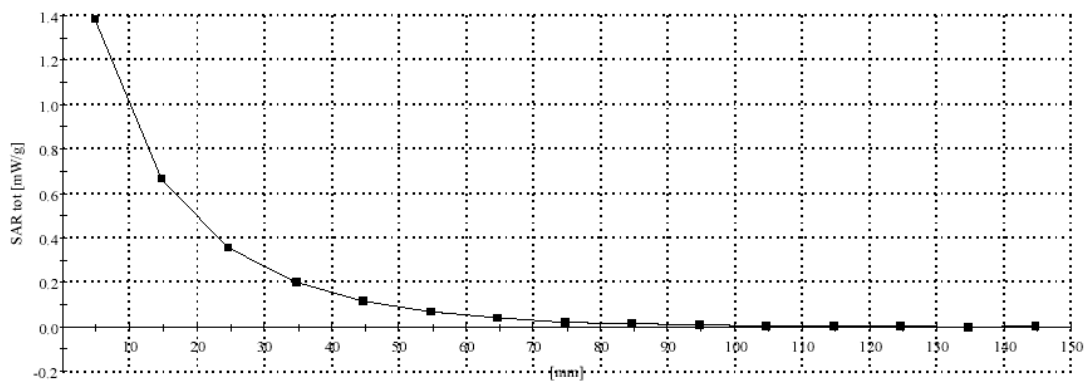
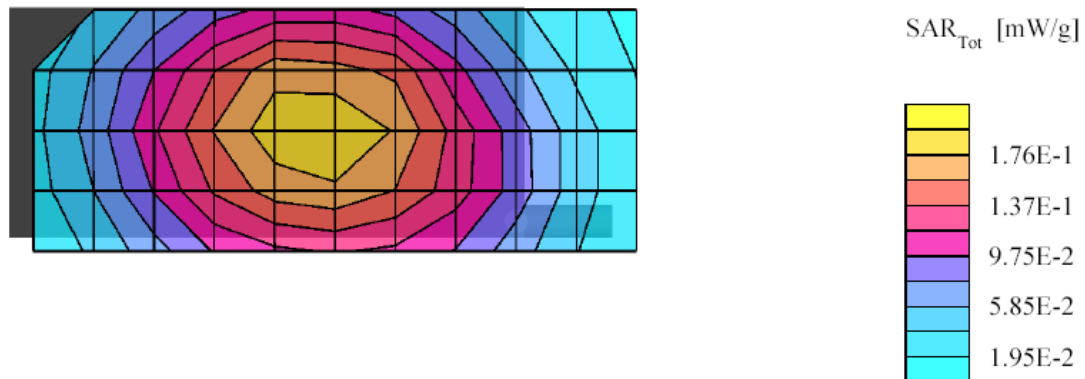
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 6.0; IEEE

HEAD 813MHz: $\sigma = 0.93$ mho/m $\epsilon = 42.6$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.194 mW/g, SAR (10g): 0.140 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 31.5, 72.0, 4.7

Power Drift: 0.03 dB



FCC ID: AZ489FT5822; Test Date: 8/12/03

Motorola CGISS EME Laboratory

RUN #: CM-R2-030812-11

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 898.49375 MHz

Simulated tissue temp: 20.3 (Celsius)

Start Power: 0.699 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: NONE

Cable Accy: NONE

DUT at the Left ear; Touch position

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

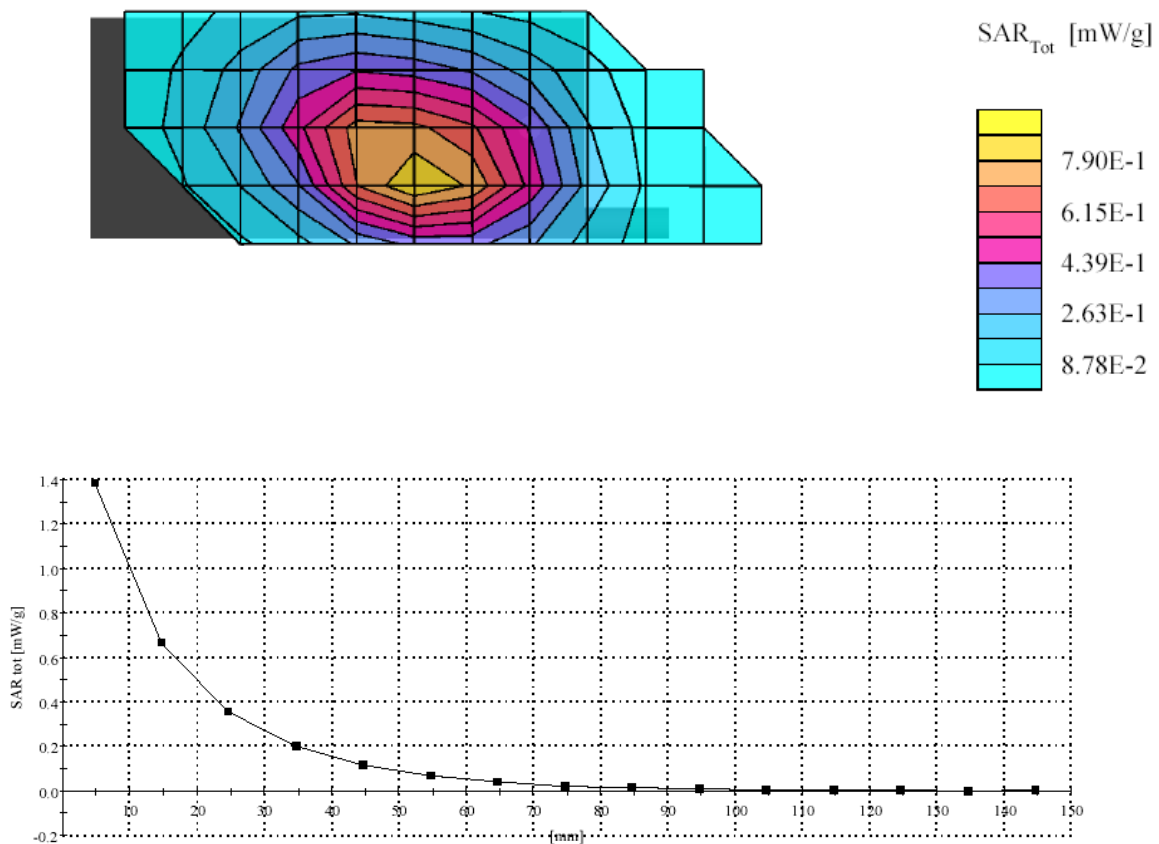
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE

HEAD 899MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.6$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.938 mW/g, SAR (10g): 0.618 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 76.5, 16.5, 4.7

Power Drift: -0.34 dB



FCC ID: AZ489FT5822; Test Date: 8/13/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030813-07

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 898.49375 MHz

Simulated tissue temp: 20.5 (Celsius)

Start Power: 0.707 W

Antenna: OUT

Battery Kit: SNN5705B

Carry Accy: None

Cable Accy: None

DUT in 15° tilt position Right ear

SAM - Expanded Phantom; Right Hand Section; Position: (90°,301°);

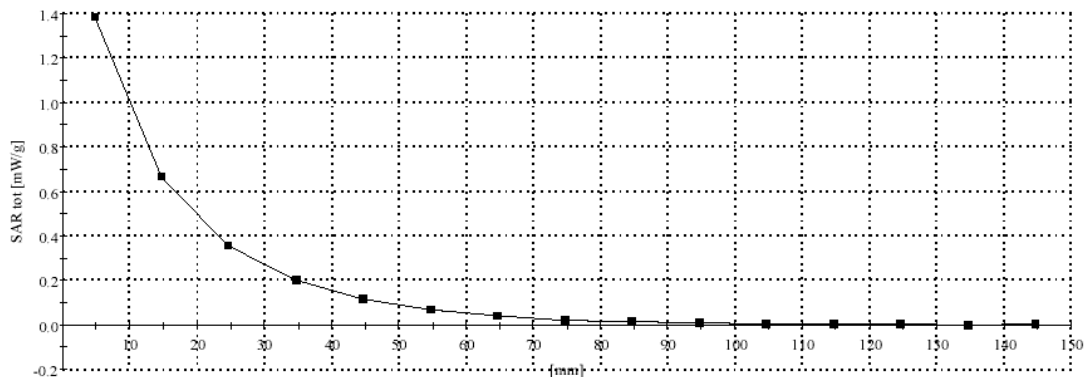
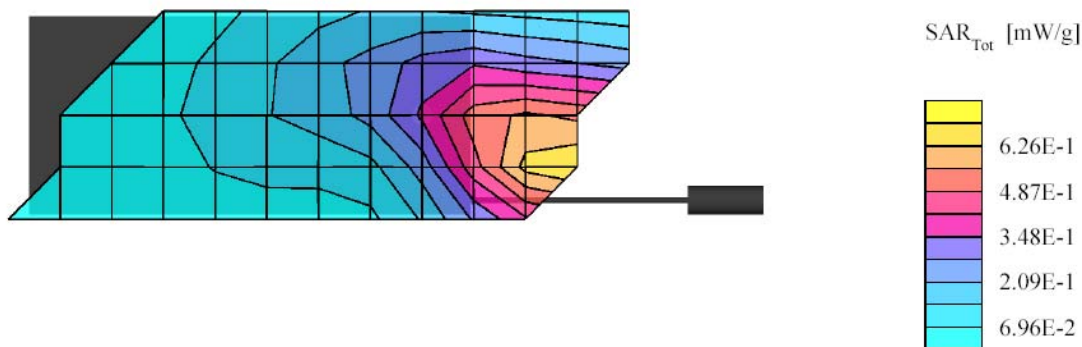
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE

HEAD 899MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.4$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.624 mW/g, SAR (10g): 0.435 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 177.0, 15.0, 4.7

Power Drift: -0.68dB



FCC ID: AZ489FT5822; Test Date: 8/13/03

Motorola CGISS EME Laboratory

RUN #: CM-R2-030813-10

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 901.98125 MHz

Simulated tissue temp: 20.8 (Celsius)

Start Power: 0.693 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: None

Cable Accy: NONE

DUT at Left ear; Touch position

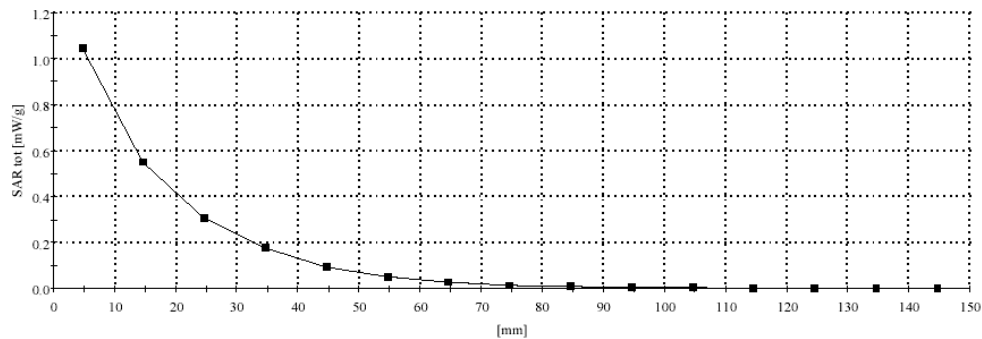
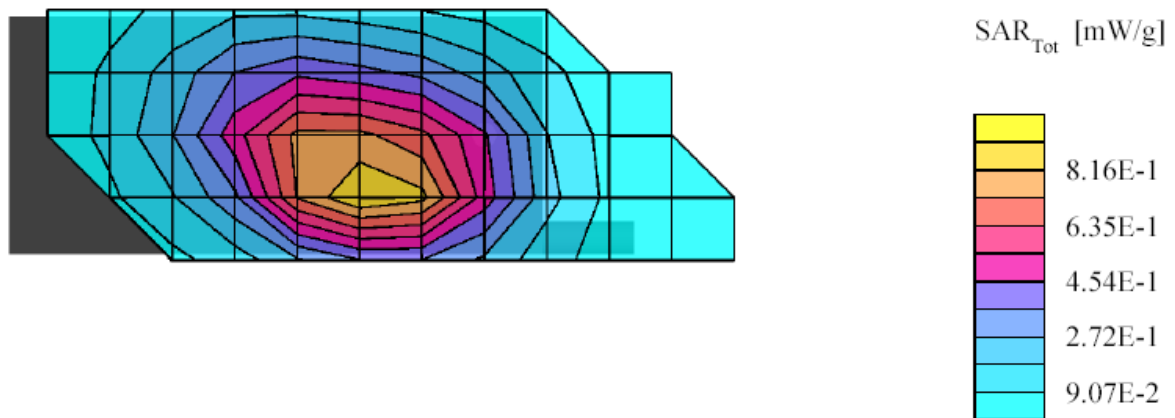
SAM - Expanded Phantom; Left Hand Section; Position: (90°,59°);

Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF (6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 3.0; IEEE HEAD 899MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.4$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.971 mW/g, SAR (10g): 0.637 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 79.5, 16.5, 4.7

Power Drift: 0.31 dB



FCC ID: AZ489FT5822; Test Date: 8/20/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030820-08

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 898.49375 MHz

Simulated tissue temp: 20.7 (Celsius)

Start Power: 0.692 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: NONE

Cable Accy: NONE

DUT Front towards phantom w/ 2.5 cm separation

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

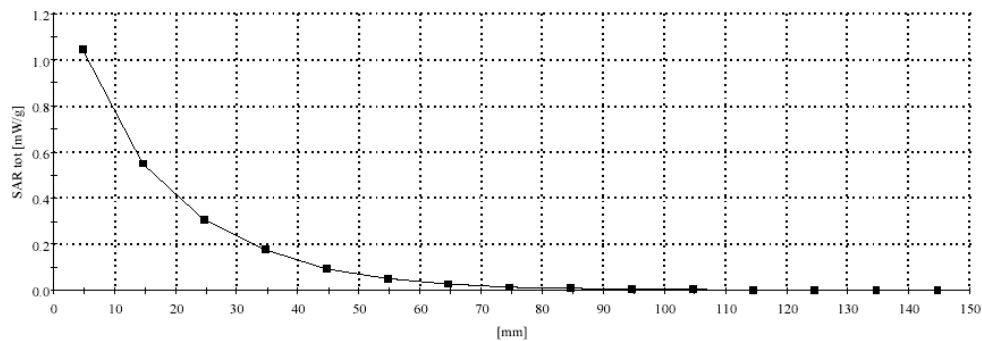
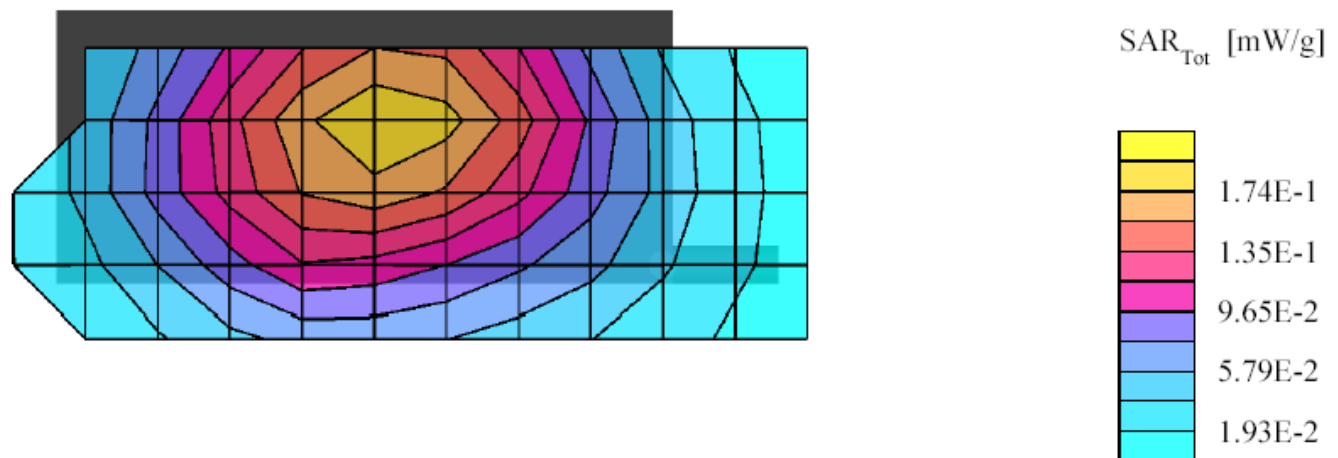
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.50,6.50,6.50); Probe cal date: 28/09/02; Crest factor: 6.0; IEEE

HEAD 899MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.3$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.193 mW/g, SAR (10g): 0.135 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0; Max at 15.0, 78.0, 4.7

Power drift: -0.06 dB



FCC ID: AZ489FT5822; Test Date: 8/14/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030814-09

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 21.0 (Celsius)

Start Power: 0.714 W

Antenna: IN

Battery Kit: SNN5705B

Carry Accy: NNTN4755A

Cable Accy: NONE

DUT at Abdomen; Carry case accessory against phantom

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

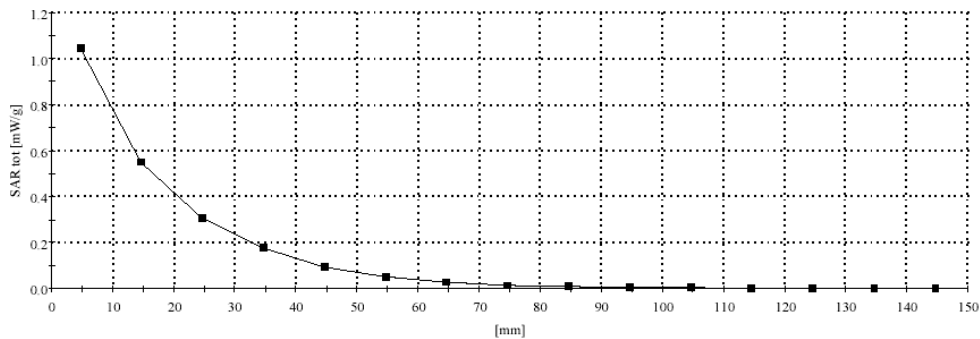
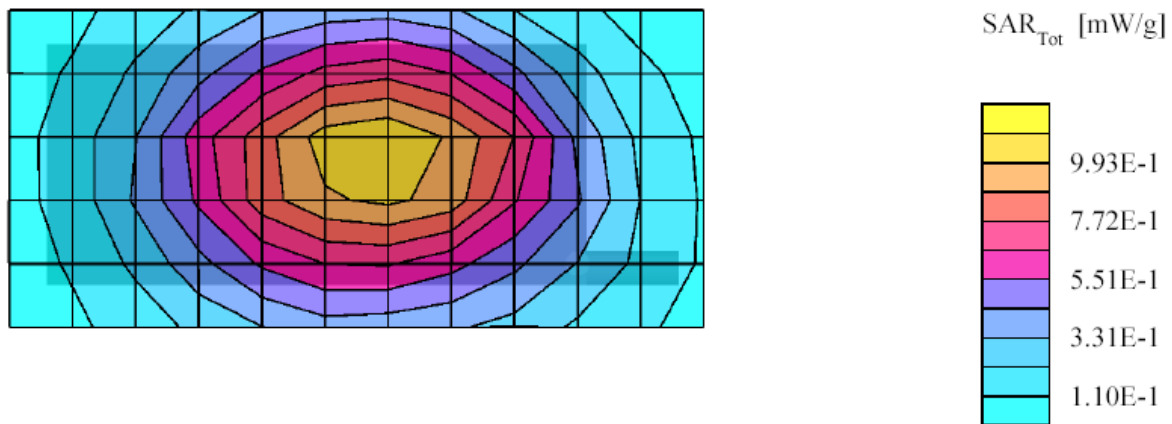
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 1.5; FCC

Body 813: $\sigma = 0.94$ mho/m $\epsilon = 53.4$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 1.16 mW/g, SAR (10g): 0.841 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 34.5, 87.0, 4.7

Power Drift: 0.06 dB



FCC ID: AZ489FT5822; Test Date: 8/15/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030815-02

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 20.7 (Celsius)

Start Power: 0.692 W

Antenna: IN

Battery Kit: SNN5706A

Carry Accy: NNTN4755A

Cable Accy: NKN6560A

DUT at Abdomen; Carry case accessory against the phantom

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

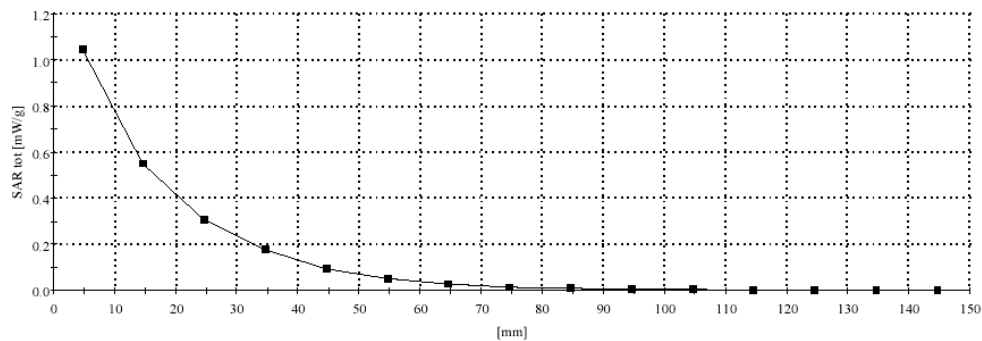
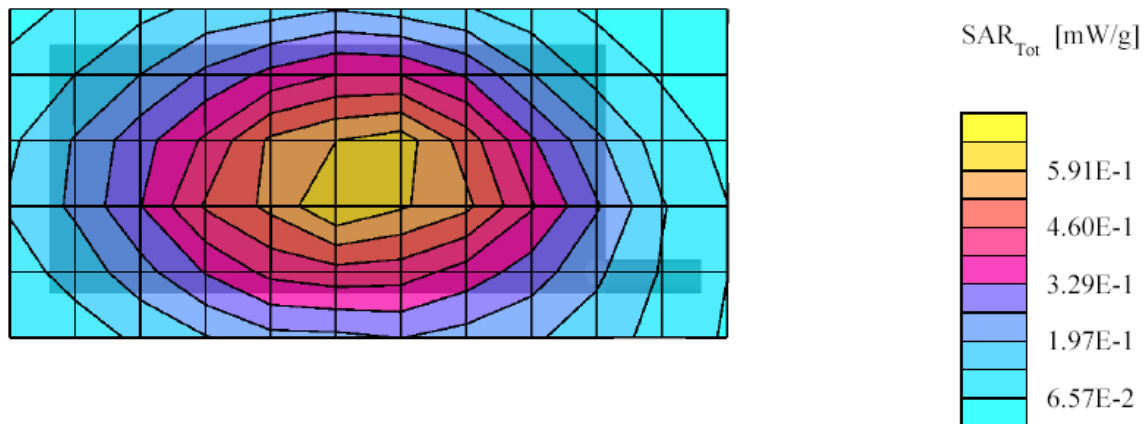
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 1.5; FCC

Body 813: $\sigma = 0.95$ mho/m $\epsilon = 53.4$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.670 mW/g, SAR (10g): 0.482 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 40.5, 78.0, 4.7

Power Drift: 0.05 dB



FCC ID: AZ489FT5822; Test Date: 8/18/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030818-03

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 21.1 (Celsius)

Start Power: 0.700 W

Antenna: OUT

Battery Kit: SNN5706A

Carry Accy: NNTN4755A

Cable Accy: NNTN4033A

DUT at Abdomen; Carry case accessory against the phantom

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

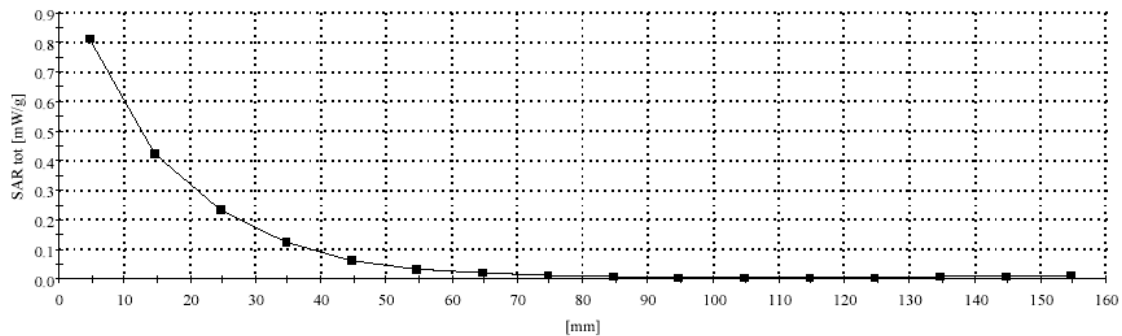
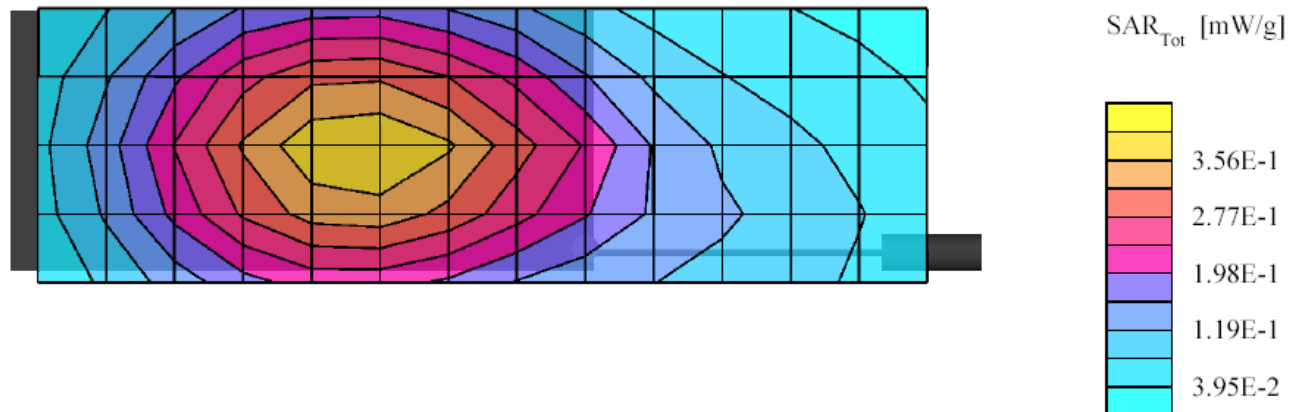
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 3.0; FCC

Body 813: $\sigma = 0.96$ mho/m $\epsilon = 54.5$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.433 mW/g, SAR (10g): 0.322 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 31.5, 70.5, 4.7

Power drift: 0.70 dB



FCC ID: AZ489FT5822; Test Date: 8/18/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030818-08

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 806.0125 MHz

Simulated tissue temp: 21.1 (Celsius)

Start Power: 0.703 W

Antenna: IN

Battery Kit: SNN5706A

Carry Accy: NNTN4755A

Cable Accy: NONE

DUT display facing phantom w/2.5 cm separation

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

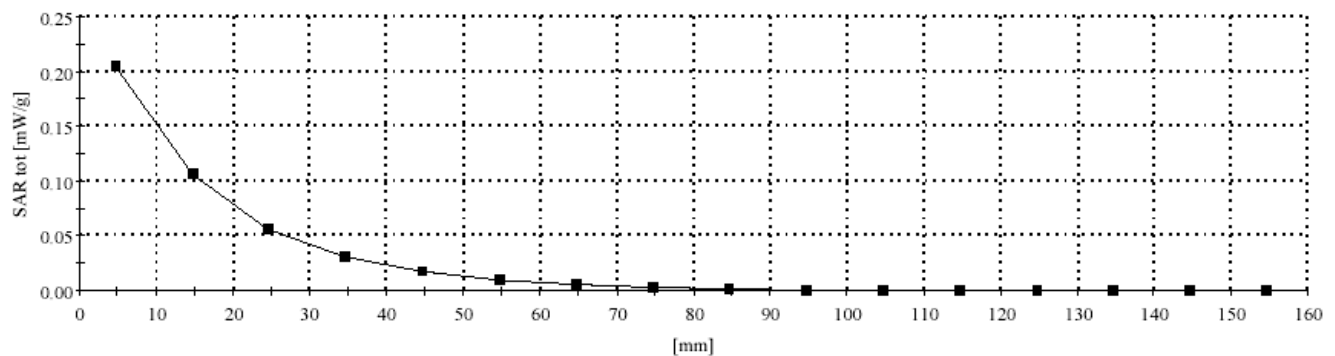
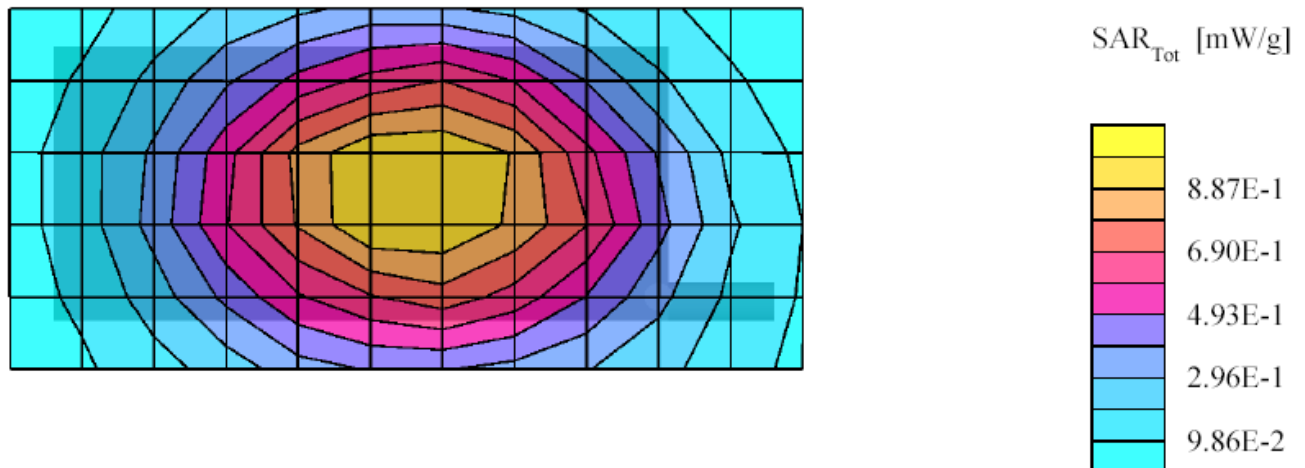
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 1.5; FCC

Body 813: $\sigma = 0.96$ mho/m $\epsilon = 54.5$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 1.15 mW/g, SAR (10g): 0.836 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 39.0, 79.5, 4.7

Power Drift: 0.30 dB



FCC ID: AZ489FT5822; Test Date: 8/19/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030819-04

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 898.49375 MHz

Simulated tissue temp: 21.0 (Celsius)

Start Power: 0.705 W

Antenna: IN

Battery Kit: SNN5706A

Carry Accy: NNTN4755A

Cable Accy: NNTN4033A

DUT w/ carry case accessory against phantom

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

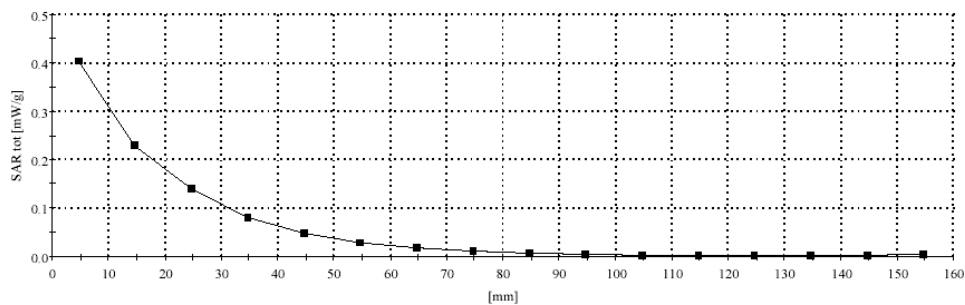
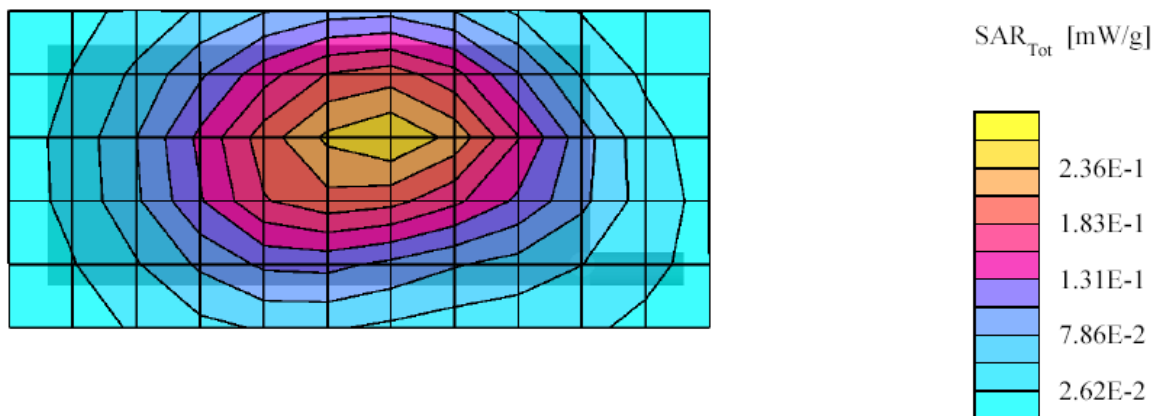
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 3.0; FCC

Body 899: $\sigma = 1.04$ mho/m $\epsilon = 53.0$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.253 mW/g, SAR (10g): 0.179 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 30.0, 88.5, 4.7

Power Drift: 0.08 dB



FCC ID: AZ489FT5822; Test Date: 8/19/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030819-08

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 896.01875 MHz

Simulated tissue temp: 20.9 (Celsius)

Start Power: 0.697 W

Antenna: IN

Battery Kit: SNN5706A

Carry Accy: NNTN4755A

Cable Accy: SYN8390B

DUT w/ carry case accessory against the phantom

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

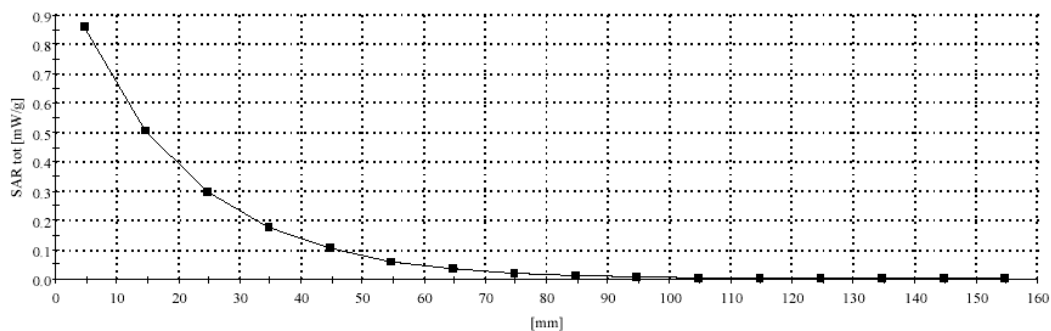
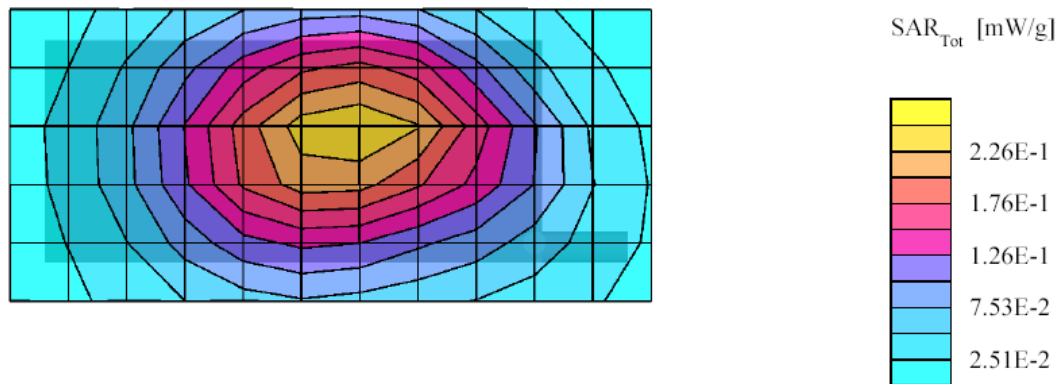
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 3.0; FCC

Body 899: $\sigma = 1.04$ mho/m $\epsilon = 53.0$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.246 mW/g, SAR (10g): 0.176 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 31.5, 87.0, 4.7

Power Drift: -0.02 dB



FCC ID: AZ489FT5822; Test Date: 8/20/03

Motorola CGISS EME Laboratory

RUN #: KU-R2-030820-04

Model #: H62XAH6RR1AN/NUF3763A S/N: 364ADN0037

TX Freq: 813.5125 MHz

Simulated tissue temp: 21.1 (Celsius)

Start Power: 0.693 W

Antenna: IN

Battery Kit: SNN5706A

Carry Accy: None

Cable Accy: None

DUT w/ front towards the phantom separated 2.5cm

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

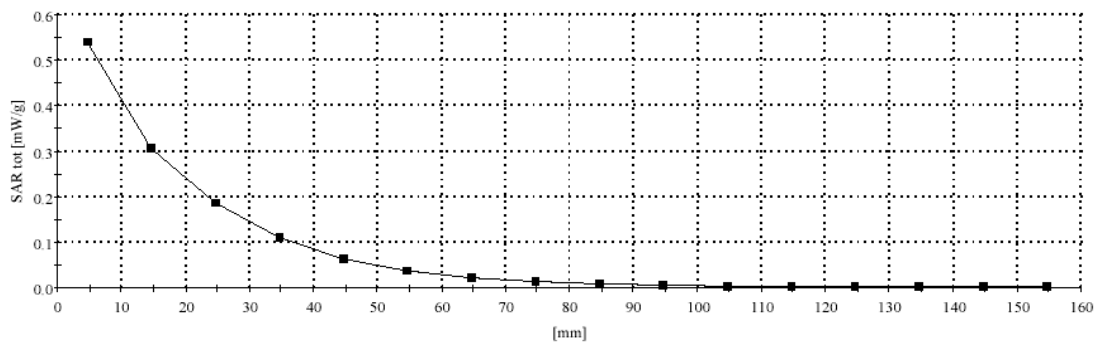
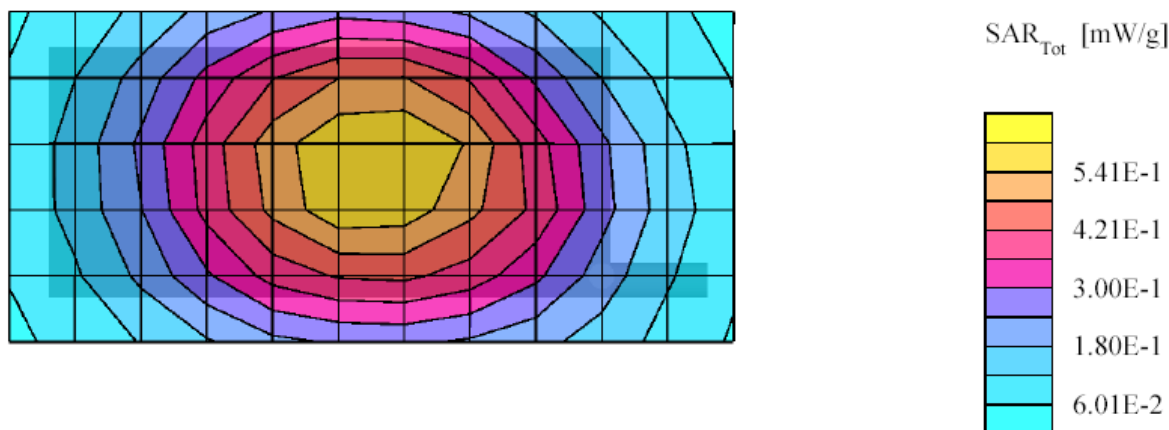
Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); ConvF(6.20,6.20,6.20); Probe cal date: 28/09/02; Crest factor: 1.5; FCC

Body 813: $\sigma = 0.94$ mho/m $\epsilon = 53.3$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cube 7x7x7: SAR (1g): 0.682 mW/g, SAR (10g): 0.488 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0; Max at 36.0, 82.5, 4.7

Power Drift: 0.06 dB



APPENDIX C

Dipole System Performance Check Results

SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/11/03

Motorola CGISS EME Lab

Run #: System perf R2-030811-01

TX Freq: 900MHz

Simulated tissue temp: 20.7 C

Start Power; 250mW

Target: 11.66 mW/g for 1g SAR, 7.26 mW/g for 10g SAR, +/- 10% from system performance target.

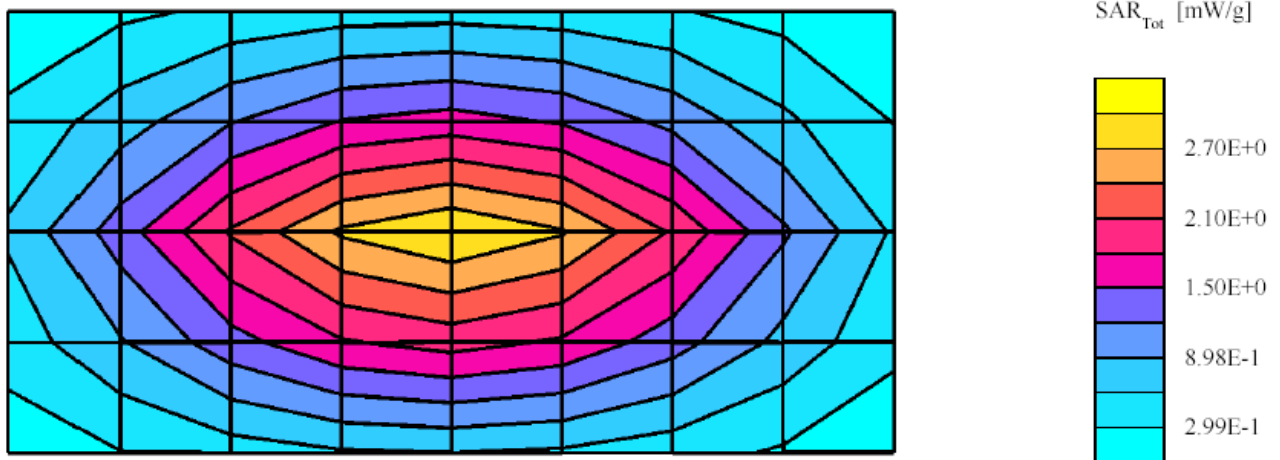
SAR calculated 1g is 11.83 mW/g percent from target (including drift) is 1.43 %

SAR Calculated 10g is 7.42 mW/g Percent from target (including drift) is 2.16 %

SAM - Expanded; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); Probe Cal Date: 28/09/02 ConvF(6.50,6.50,6.50); Crest factor: 1.0; IEEE HEAD 900MHz: $\sigma = 1.01$ mho/m $\rho_r = 41.7$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 3.16 mW/g $\pm$ 20.10 dB, SAR (1g): 1.97 mW/g $\pm$ 23.06 dB, SAR (10g): 1.23 mW/g $\pm$ 0.00 dB, (Worst-case extrapolation) Penetration depth: 11.3 (10.4, 12.5) [mm]

Power drift: -0.01 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/12/03

Motorola CGISS EME Lab

Run #: System perf R2-030812-01

TX Freq: 900MHz

Simulated tissue temp: 21.0 C

Start Power; 250mW

Target: 11.66 mW/g for 1g SAR, 7.26 mW/g for 10g SAR, +/- 10% from system performance target.

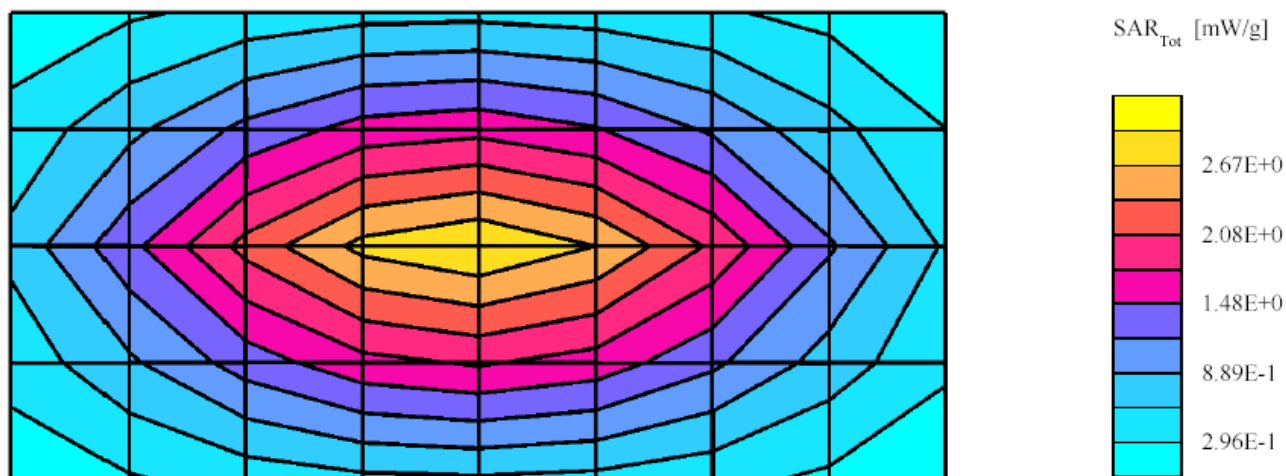
SAR calculated 1g is 11.72 mW/g percent from target (including drift) is 0.5 %

SAR Calculated 10g is 7.35 mW/g Percent from target (including drift) is 1.2 %

SAM - Expanded; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); Probe Cal Date: 28/09/02 ConvF(6.50,6.50,6.50); Crest factor: 1.0; IEEE HEAD 900MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.6$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 3.15 mW/g $\pm$ 17.94 dB, SAR (1g): 1.96 mW/g $\pm$ 22.65 dB, SAR (10g): 1.23 mW/g $\pm$ 0.00 dB, (Worst-case extrapolation) Penetration depth: 11.3 (10.4, 12.5) [mm]

Power drift: 0.03 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/13/03

Motorola CGISS EME Lab

Run #: System perf R2-030813-01

TX Freq: 900MHz

Simulated tissue temp: 20.9 C

Start Power; 250mW

Target: 11.66 mW/g for 1g SAR, 7.26 mW/g for 10g SAR, +/- 10% from system performance target.

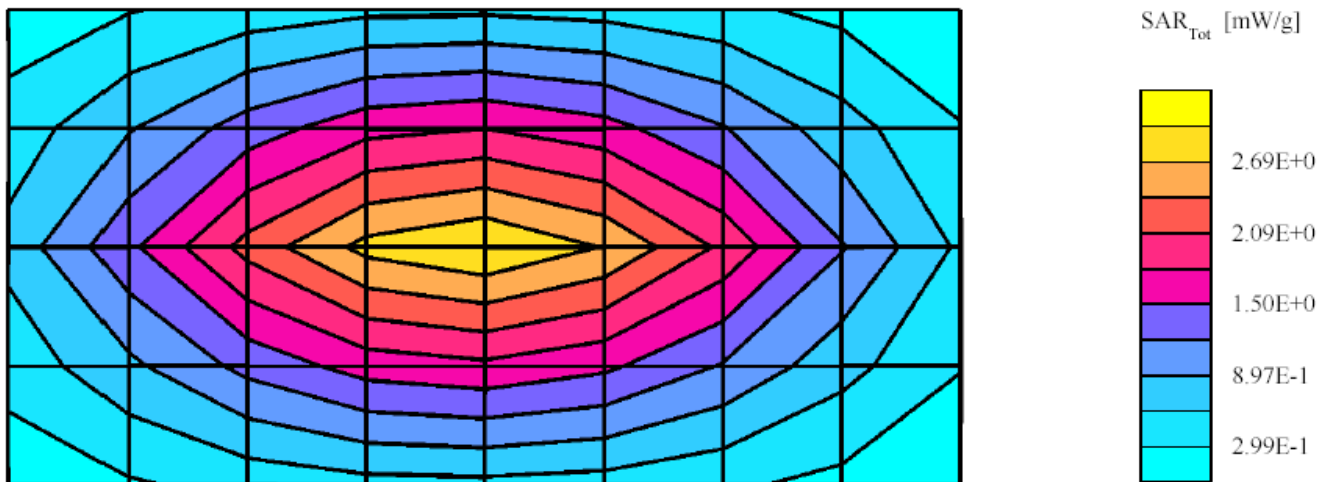
SAR calculated 1g is 11.84 mW/g percent from target (including drift) is 1.5 %

SAR Calculated 10g is 7.44 mW/g Percent from target (including drift) is 2.5%

SAM - Expanded; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); Probe Cal Date: 28/09/02 ConvF(6.50,6.50,6.50); Crest factor: 1.0; IEEE HEAD 900MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.4$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 3.16 mW/g $\pm$ 19.42 dB, SAR (1g): 1.97 mW/g $\pm$ 0.00 dB, SAR (10g): 1.24 mW/g $\pm$ 0.00 dB, (Worst-case extrapolation) Penetration depth: 11.3 (10.5, 12.4) [mm]

Power drift: 0.00 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/14/03

Motorola CGISS EME Lab

Run #: System perf R2-030814-01

TX Freq: 900MHz

Simulated tissue temp: 21.5 C

Start Power; 250mW

Target: 11.99W/g for 1g SAR, 7.58mW/g for 10g SAR, +/- 10% from system performance target.

SAR calculated 1g is 11.37 mW/g percent from target (including drift) is -5.2%

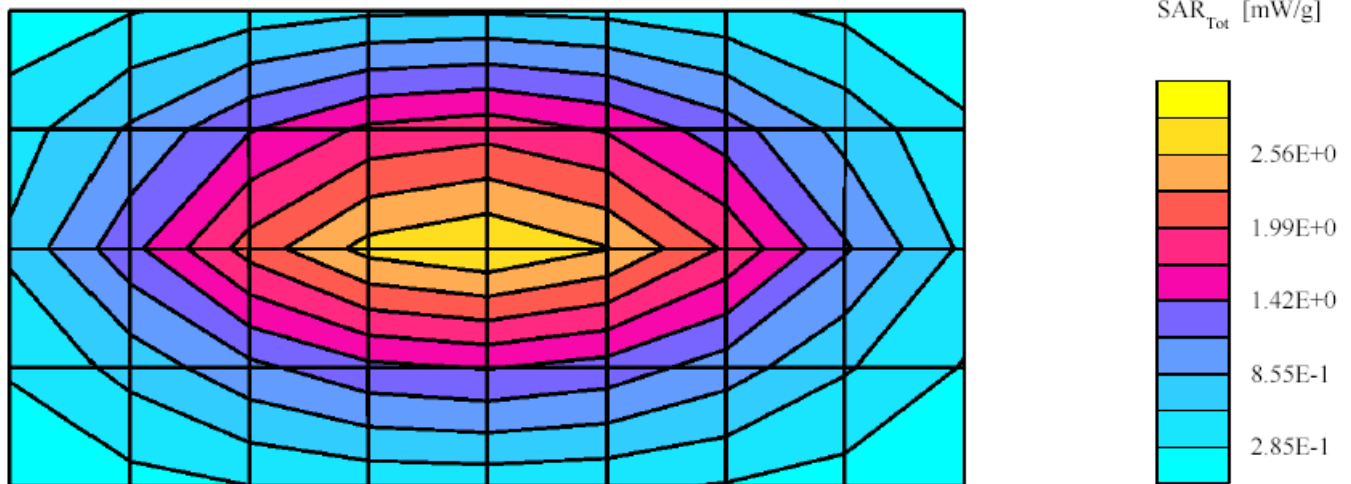
SAR Calculated 10g is 7.28 mW/g Percent from target (including drift) is -3.9%

Flat; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); Probe Cal Date: 28/09/02ConvF(6.20,6.20,6.20); Crest factor: 1.0; FCC

Body 900: $\sigma = 1.04$ mho/m $\epsilon = 52.6$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 2.92 mW/g $\pm$ 17.15 dB, SAR (1g): 1.87 mW/g $\pm$ 18.83 dB, SAR (10g): 1.20 mW/g $\pm$ 18.86 dB, (Worst-case extrapolation) Penetration depth: 12.3 (11.3, 13.5) [mm]

Power drift: -0.05 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/14/03

Motorola CGISS EME Lab

Run #: System perf R2-030813-02

TX Freq: 900MHz

Simulated tissue temp: 20.7 C

Start Power; 250mW

Target: 11.66 mW/g for 1g SAR, 7.26 mW/g for 10g SAR, +/- 10% from system performance target.

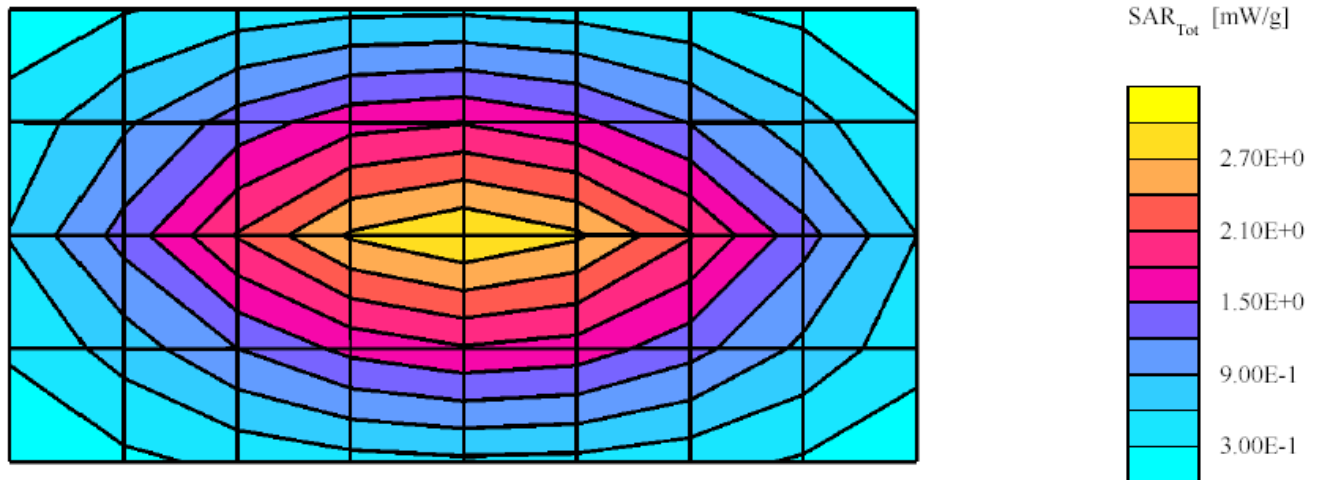
SAR calculated 1g is 11.77 mW/g percent from target (including drift) is 0.98 %

SAR Calculated 10g is 7.39 mW/g Percent from target (including drift) is 1.9%

SAM - Expanded; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002); Probe Cal Date: 28/09/02 ConvF(6.50,6.50,6.50); Crest factor: 1.0; IEEE HEAD 900MHz: $\sigma = 1.01$ mho/m $\epsilon = 41.5$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 3.12 mW/g $\pm$ 19.64 dB, SAR (1g): 1.95 mW/g $\pm$ 23.83 dB, SAR (10g): 1.23 mW/g $\pm$ 0.00 dB, (Worst-case extrapolation) Penetration depth: 11.3 (10.5, 12.5) [mm]

Power drift: -0.02 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/15/03

Motorola CGISS EME Lab

Run #: System perf R2-030815-01

TX Freq: 900MHz

Simulated tissue temp: 20.7 C

Start Power; 250mW

Target: 11.99W/g for 1g SAR, 7.58mW/g for 10g SAR, +/- 10% from system performance target.

SAR calculated 1g is 11.28 mW/g percent from target (including drift) is -5.9%

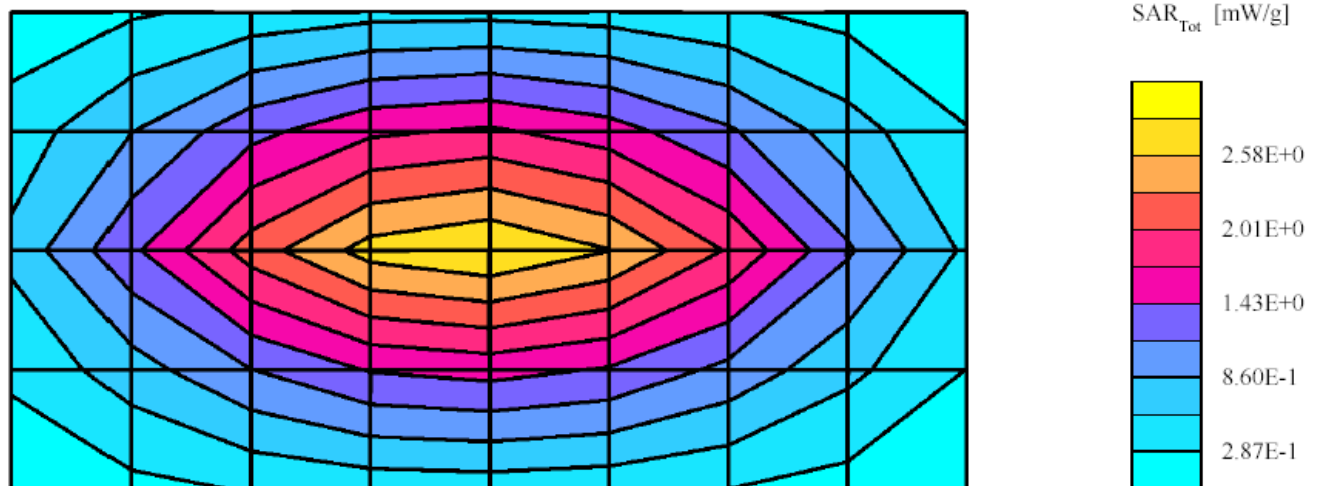
SAR Calculated 10g is 7.2 mW/g Percent from target (including drift) is -5.0%

Flat; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002);Probe Cal Date: 28/09/02ConvF(6.20,6.20,6.20); Crest factor: 1.0; FCC

Body 900: $\sigma = 1.04$ mho/m $\epsilon = 52.6$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 2.93 mW/g $\pm$ 17.86 dB, SAR (1g): 1.88 mW/g $\pm$ 18.91 dB, SAR (10g): 1.20 mW/g $\pm$ 17.96 dB, (Worst-case extrapolation) Penetration depth: 12.3 (11.3, 13.5) [mm]

Power drift: -0.00 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/18/03

Motorola CGISS EME Lab

Run #: System perf R2-030818-01

TX Freq: 900MHz

Simulated tissue temp: 21.1 C

Start Power; 250mW

Target: 11.99W/g for 1g SAR, 7.58mW/g for 10g SAR, +/- 10% from system performance target.

SAR calculated 1g is 11.51 mW/g percent from target (including drift) is -4.0%

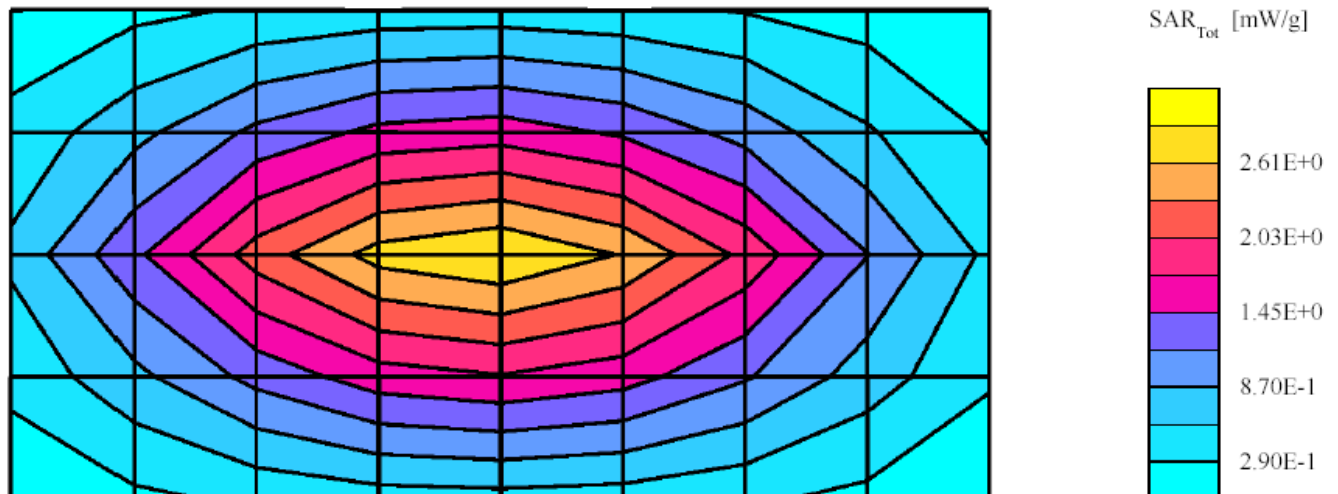
SAR Calculated 10g is 7.34 mW/g Percent from target (including drift) is -3.2%

Flat; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002);Probe Cal Date: 28/09/02ConvF(6.20,6.20,6.20); Crest factor: 1.0; FCC

Body 900: $\sigma = 1.05$ mho/m $\epsilon = 53.6$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (2): Peak: 4.46 mW/g ± 0.02 dB, SAR (1g): 2.87 mW/g ± 0.02 dB, SAR (10g): 1.83 mW/g ± 0.01 dB, (Worst-case extrapolation) Penetration depth: 12.3 (11.3, 13.6) [mm]

Power drift: -0.01 dB



SPEAG 900 MHz Dipole; Model D900V2, SN 084; Test Date: 8/19/03

Motorola CGISS EME Lab

Run #: System perf R2-030819-01

TX Freq: 900MHz

Simulated tissue temp: 20.9 C

Start Power; 250mW

Target: 11.99W/g for 1g SAR, 7.58mW/g for 10g SAR, +/- 10% from system performance target.

SAR calculated 1g is 11.35 mW/g percent from target (including drift) is -5.4%

SAR Calculated 10g is 7.26 mW/g Percent from target (including drift) is -4.3%

Flat; Probe: ET3DV6 - SN1547 (Cal Date 09-28-2002);Probe Cal Date: 28/09/02ConvF(6.20,6.20,6.20); Crest factor: 1.0; FCC

Body 900: $\sigma = 1.04$ mho/m $\epsilon = 53.0$ $\rho = 1.00$ g/cm³; DAE: DAE3V1 SN406; Cal 11/11/02

Cubes (3): Peak: 2.94 mW/g $\pm$ 17.33 dB, SAR (1g): 1.89 mW/g $\pm$ 16.69 dB, SAR (10g): 1.21 mW/g $\pm$ 16.35 dB, (Worst-case extrapolation) Penetration depth: 12.3 (11.3, 13.5) [mm]

Power drift: -0.01 dB

