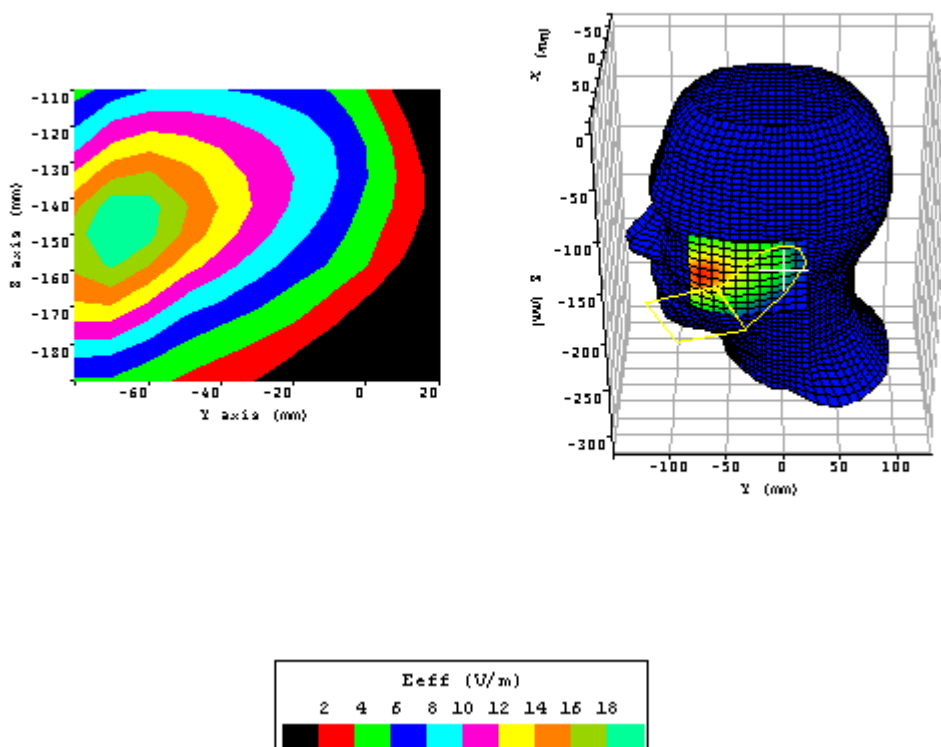


Appendix A Measurement Plots

-850 MHz Band Head SAR Plots:

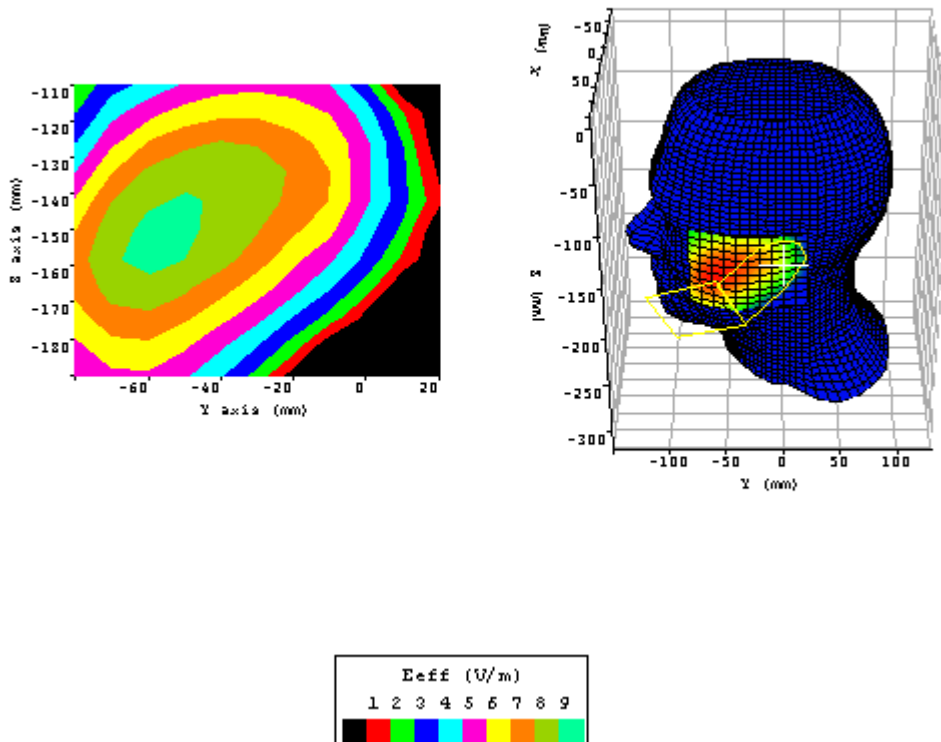


Plot 1.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.401	
Simulated tissue dielectric parameters:	ϵ_r : 41.83	σ : 0.889
Position:	Left touch	
Channel / Frequency	190 / 836.6 MHz	
Maximum 1 gram SAR:	0.430W/Kg	
Maximum 10 gram SAR:	0.275W/Kg	
Power reference start:	0.189W/Kg	
Power reference end	0.197W/Kg	
Power reference change ²	4.31%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

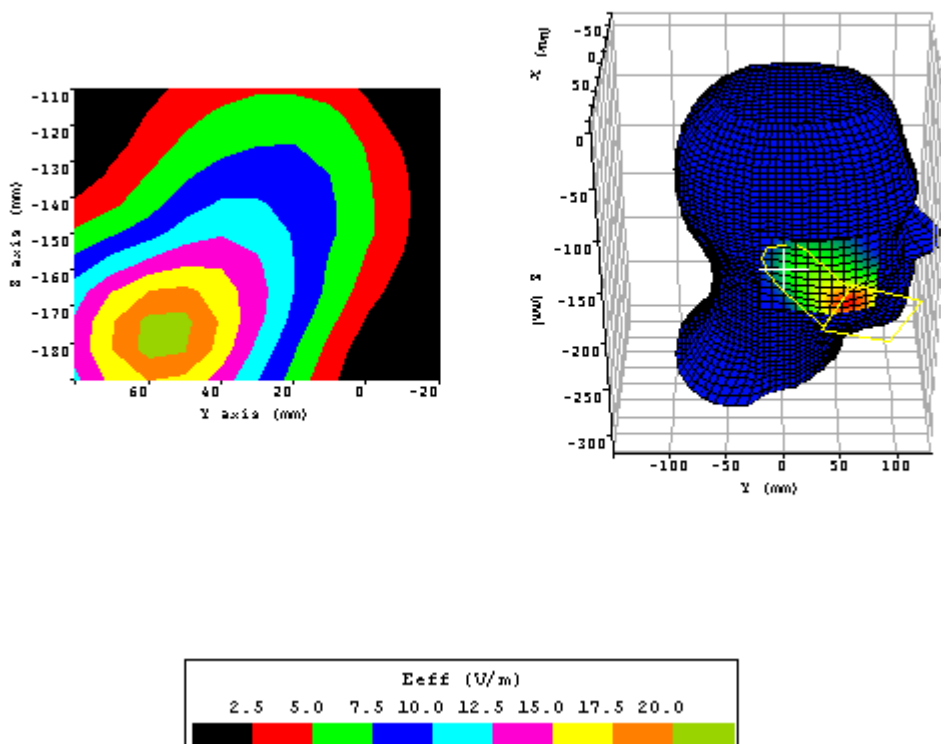


Plot 2.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.401	
Simulated tissue dielectric parameters:	ϵ_r : 41.83	σ : 0.889
Position:	Left tilt	
Channel / Frequency	190 / 836.6 MHz	
Maximum 1 gram SAR:	0.092W/Kg	
Maximum 10 gram SAR:	0.069W/Kg	
Power reference start:	0.047W/Kg	
Power reference end	0.049W/Kg	
Power reference change ²	3.75%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

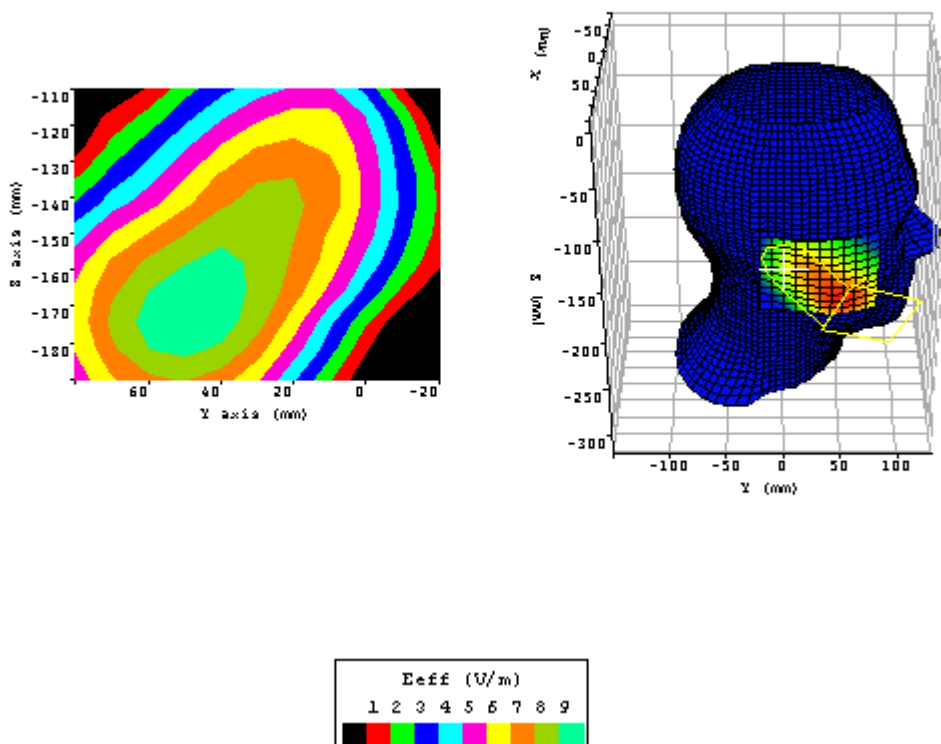


Plot 3.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.401	
Simulated tissue dielectric parameters:	ϵ_r : 41.83	σ : 0.889
Position:	Right touch	
Channel / Frequency	190 / 836.6 MHz	
Maximum 1 gram SAR:	0.488W/Kg	
Maximum 10 gram SAR:	0.305W/Kg	
Power reference start:	0.208W/Kg	
Power reference end	0.209W/Kg	
Power reference change ²	0.47%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

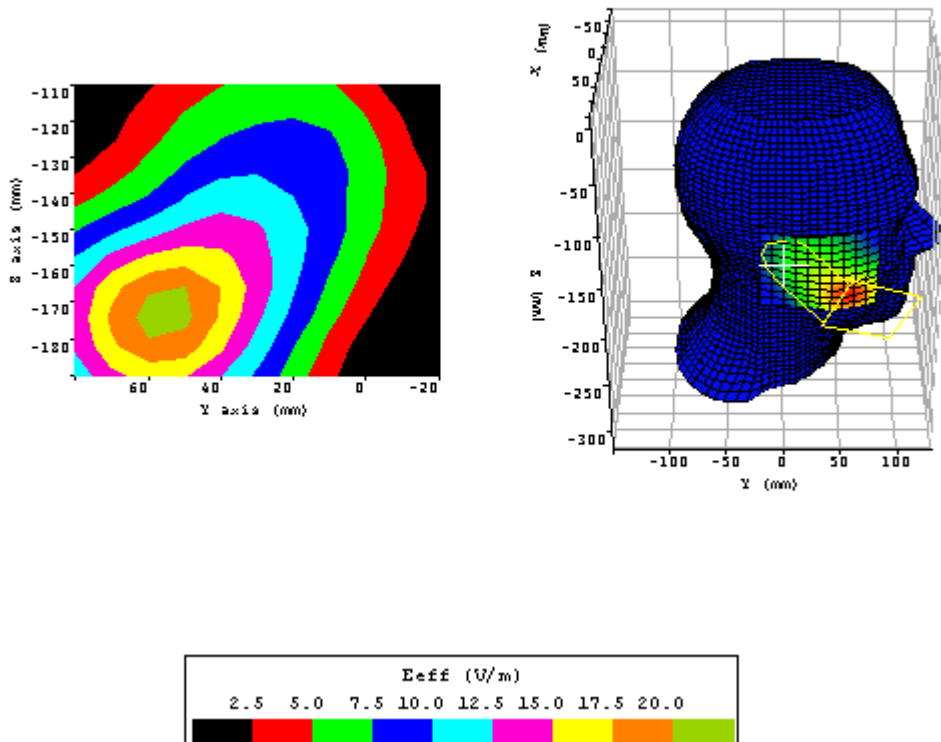


Plot 4.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.401	
Simulated tissue dielectric parameters:	ϵ_r : 41.83	σ : 0.889
Position:	Right tilt	
Channel / Frequency	190 / 836.6 MHz	
Maximum 1 gram SAR:	0.100W/Kg	
Maximum 10 gram SAR:	0.074W/Kg	
Power reference start:	0.052W/Kg	
Power reference end	0.052W/Kg	
Power reference change ²	-0.00%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

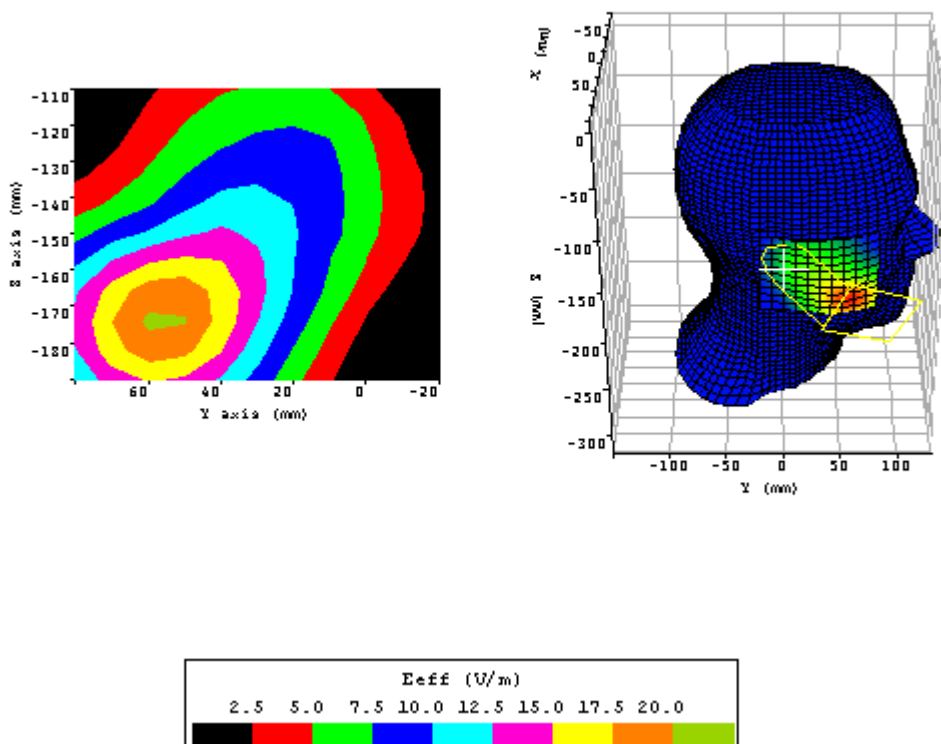


Plot 5.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.401	
Simulated tissue dielectric parameters:	ϵ_r : 42.12	σ : 0.892
Position:	Right touch	
Channel / Frequency	128 / 824.2MHz	
Maximum 1 gram SAR:	0.488W/Kg	
Maximum 10 gram SAR:	0.309W/Kg	
Power reference start:	0.218W/Kg	
Power reference end	0.216W/Kg	
Power reference change ²	-0.65%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots



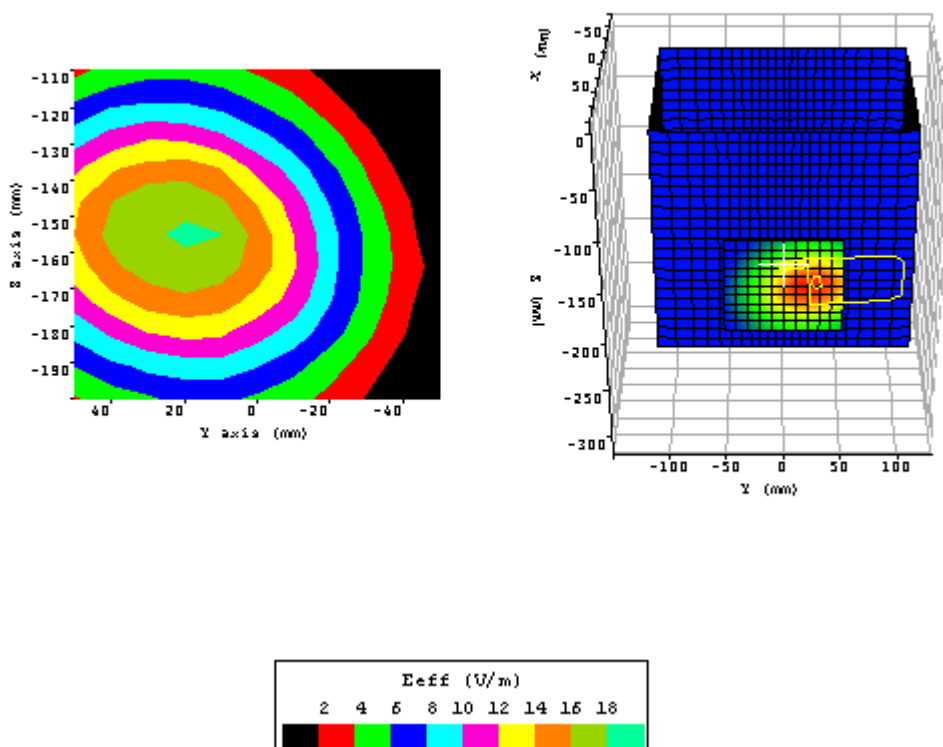
Plot 6.	
Date:	03/25/2003
Temperature Air / Liquid:	21.2°C / 21.2°C
Liquid mass density (ρ):	1
DCP ¹	X=9, Y=13.6, Z=8.7
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.401
Simulated tissue dielectric parameters:	ϵ_r : 41.42 σ : 0.909
Position:	Right touch retracted
Channel / Frequency	251 / 848.8 MHz
Maximum 1 gram SAR:	0.454W/Kg
Maximum 10 gram SAR:	0.287W/Kg
Power reference start:	0.197W/Kg
Power reference end	0.195W/Kg
Power reference change ²	-1.00%

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

850 MHz Band Body SAR plots:

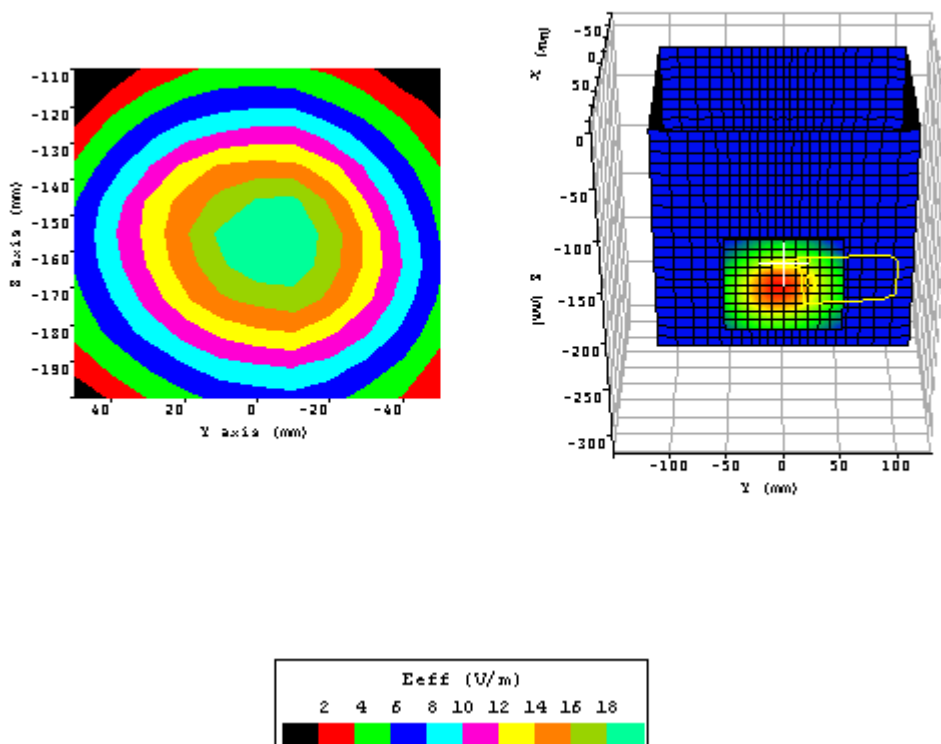


Plot 7.		
Date:	03/27/2003	
Temperature Air / Liquid:	214°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.466	
Simulated tissue dielectric parameters:	ϵ_r : 55.58	σ : 0.989
Position:	Body	
Channel / Frequency	190 / 836.6MHz	
Maximum 1 gram SAR:	0.390W/Kg	
Maximum 10 gram SAR:	0.272W/Kg	
Power reference start:	0.194W/Kg	
Power reference end	0.191W/Kg	
Power reference change ²	-1.45%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

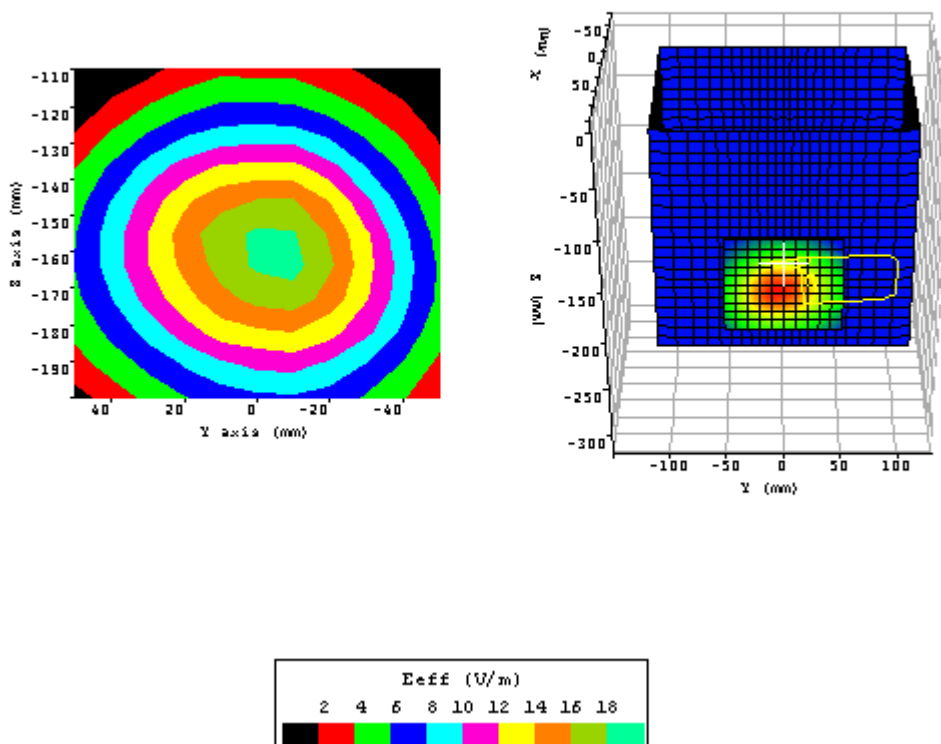


Plot 8.		
Date:	03/27/2003	
Temperature Air / Liquid:	214°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.466	
Simulated tissue dielectric parameters:	ϵ_r : 56.18	σ : 0.973
Position:	Body	
Channel / Frequency	128 / 824.2MHz	
Maximum 1 gram SAR:	0.482W/Kg	
Maximum 10 gram SAR:	0.323W/Kg	
Power reference start:	0.214W/Kg	
Power reference end	0.218W/Kg	
Power reference change ²	1.78%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots



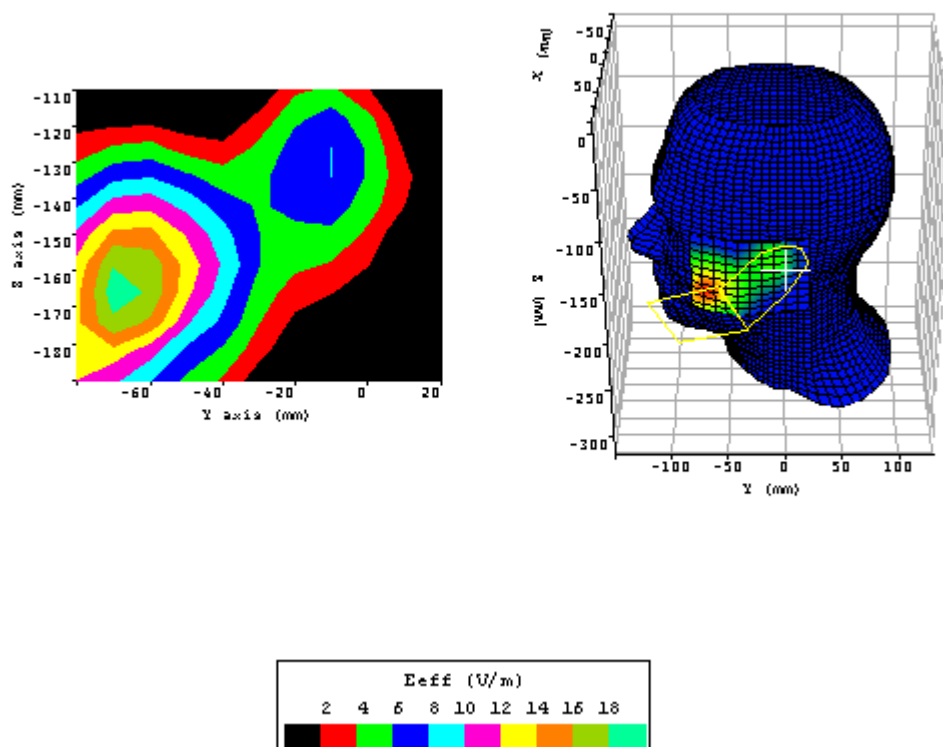
Plot 9.		
Date:	03/27/2003	
Temperature Air / Liquid:	214°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.466	
Simulated tissue dielectric parameters:	ϵ_r : 55.50	σ : 0.985
Position:	Body	
Channel / Frequency	251 / 848.8MHz	
Maximum 1 gram SAR:	0.427W/Kg	
Maximum 10 gram SAR:	0.285W/Kg	
Power reference start:	0.192W/Kg	
Power reference end	0.189W/Kg	
Power reference change ²	-1.65%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

1900 MHz Band Head SAR Plots:

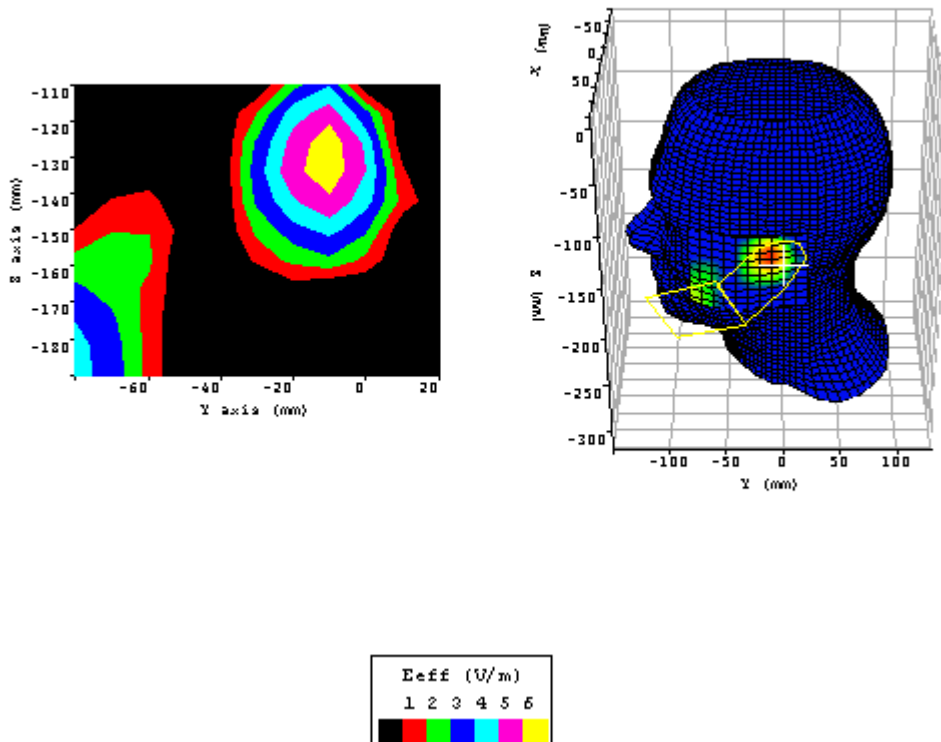


Plot 10.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.562	
Simulated tissue dielectric parameters:	ϵ_r : 39.32	σ : 1.422
Position:	Left touch	
Channel / Frequency	661 / 1880 MHz	
Maximum 1 gram SAR:	0.651W/Kg	
Maximum 10 gram SAR:	0.368W/Kg	
Power reference start:	0.220W/Kg	
Power reference end	0.220W/Kg	
Power reference change ²	0.00%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

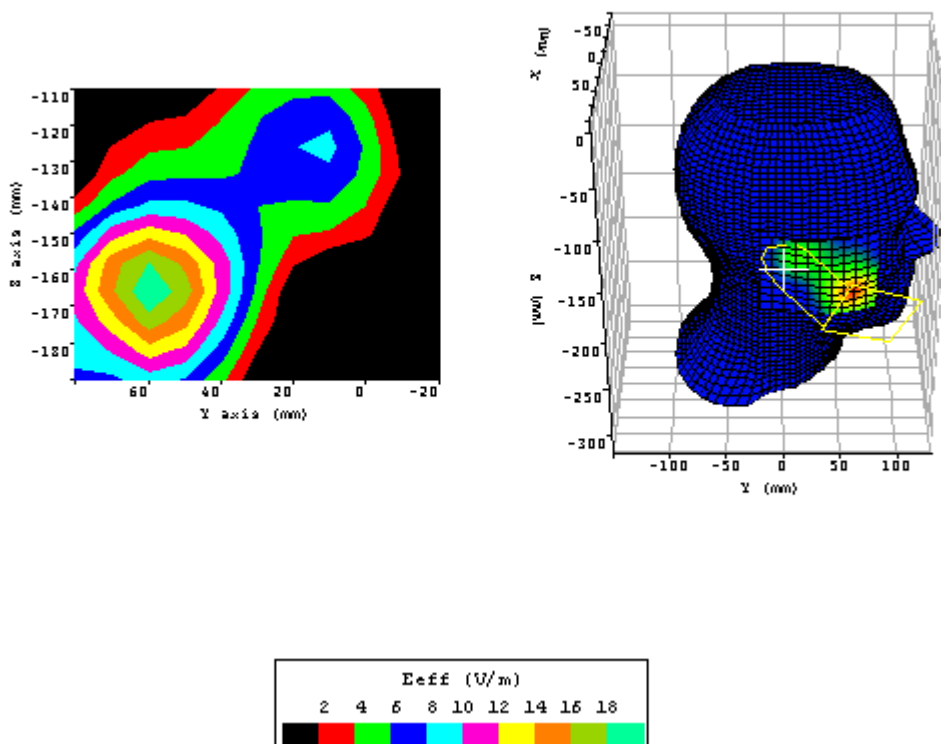


Plot 11.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.562	
Simulated tissue dielectric parameters:	ϵ_r : 39.32	σ : 1.422
Position:	Left tilt	
Channel / Frequency	661 / 1880 MHz	
Maximum 1 gram SAR:	0.079W/Kg	
Maximum 10 gram SAR:	0.041W/Kg	
Power reference start:	0.025W/Kg	
Power reference end	0.026W/Kg	
Power reference change ²	4.54%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

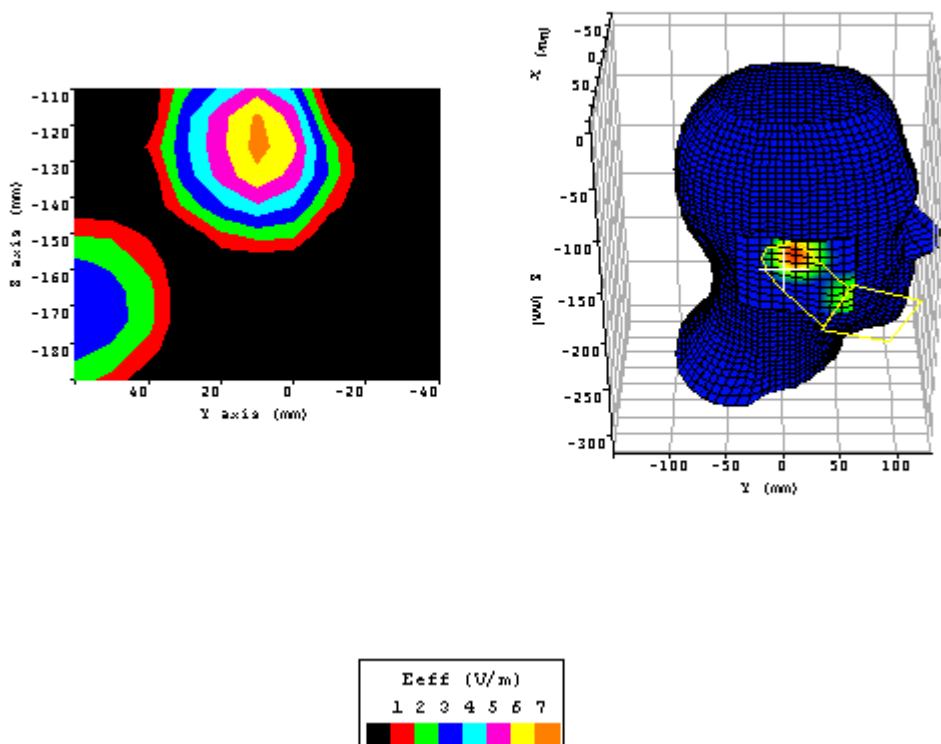


Plot 12.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.562	
Simulated tissue dielectric parameters:	ϵ_r : 39.32	σ : 1.422
Position:	Right touch	
Channel / Frequency	661 / 1880 MHz	
Maximum 1 gram SAR:	0.610W/Kg	
Maximum 10 gram SAR:	0.322W/Kg	
Power reference start:	0.140W/Kg	
Power reference end	0.138W/Kg	
Power reference change ²	-0.94	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

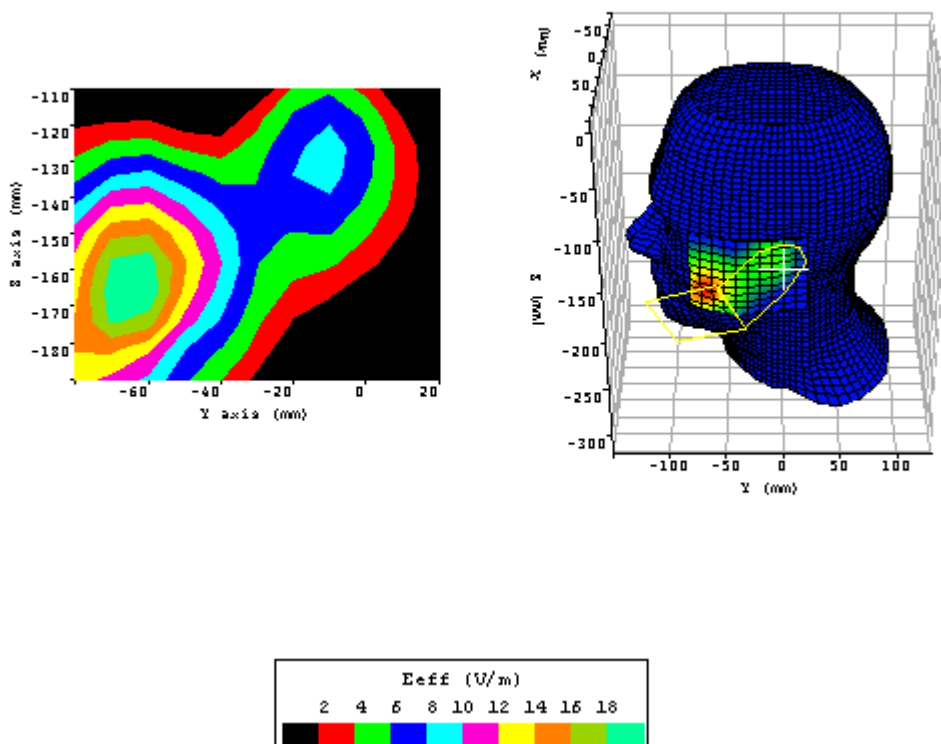
Appendix A Measurement Plots



Plot 13.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.562	
Simulated tissue dielectric parameters:	ϵ_r : 39.32	σ : 1.422
Position:	Right tilt	
Channel / Frequency	661 / 1880 MHz	
Maximum 1 gram SAR:	0.063W/Kg	
Maximum 10 gram SAR:	0.032W/Kg	
Power reference start:	0.021W/Kg	
Power reference end	0.021W/Kg	
Power reference change ²	0.00%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

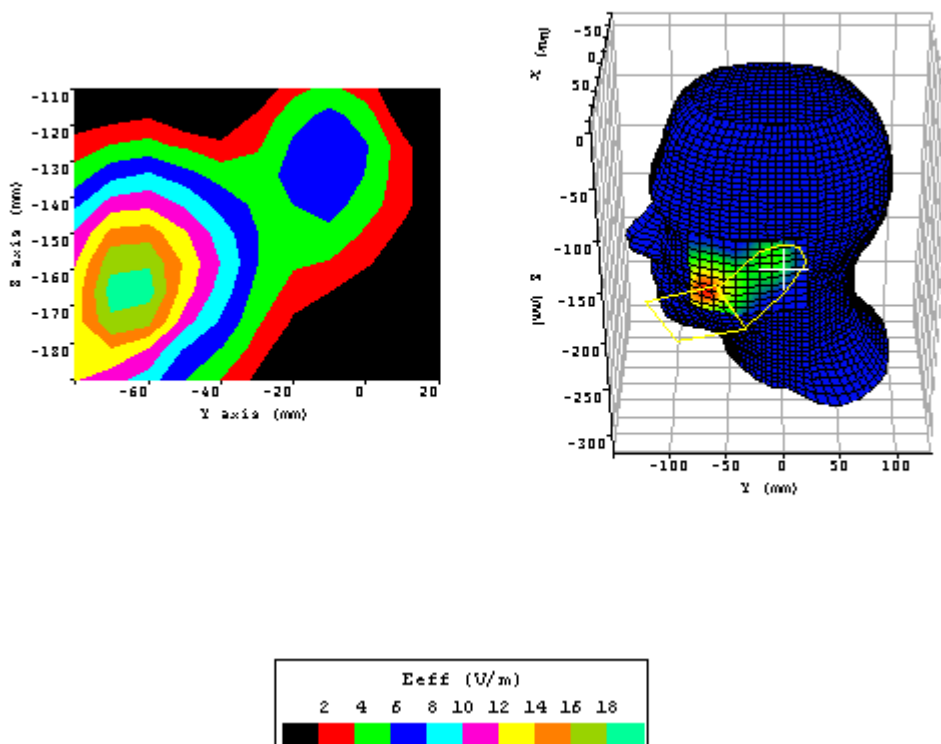
Appendix A Measurement Plots**Plot 14.**

Date:	03/25/2003
Temperature Air / Liquid:	21.2°C / 21.2°C
Liquid mass density (ρ):	1
DCP ¹	X=9, Y=13.6, Z=8.7
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.562
Simulated tissue dielectric parameters:	ϵ_r : 39.62 σ : 1.403
Position:	Left touch
Channel / Frequency	512 / 1850. MHz
Maximum 1 gram SAR:	0.714W/Kg
Maximum 10 gram SAR:	0.407W/Kg
Power reference start:	0.288W/Kg
Power reference end	0.288W/Kg
Power reference change ²	-0.00%

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots



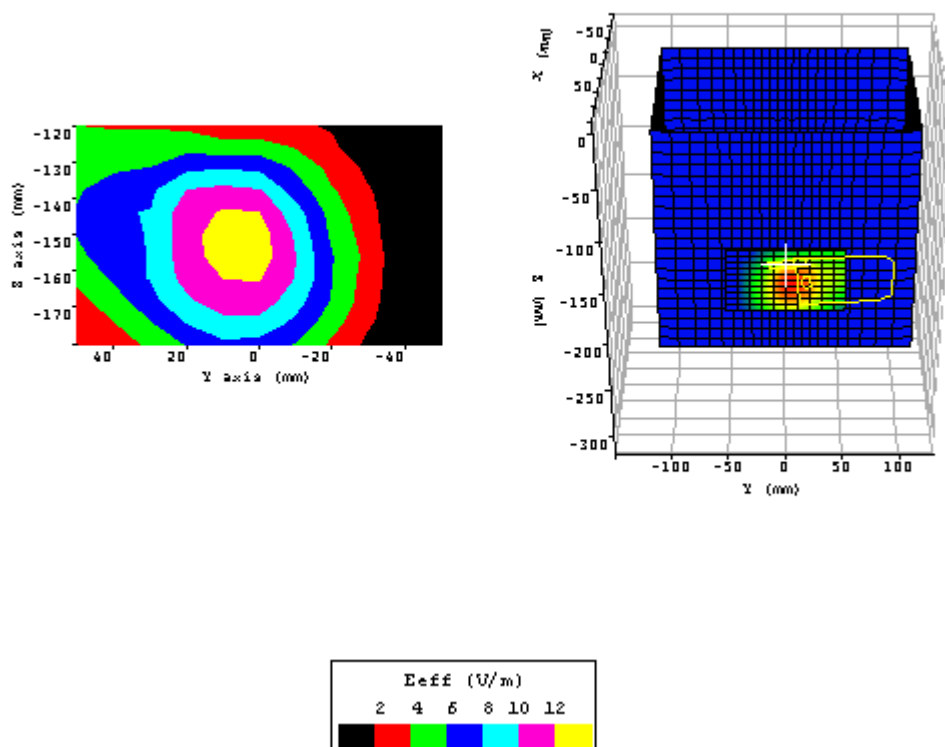
Plot 15.		
Date:	03/25/2003	
Temperature Air / Liquid:	21.2°C / 21.2°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.562	
Simulated tissue dielectric parameters:	ϵ_r : 39.71	σ : 1.45
Position:	Left touch	
Channel / Frequency	810 / 1909.8 MHz	
Maximum 1 gram SAR:	0.658W/Kg	
Maximum 10 gram SAR:	0.371W/Kg	
Power reference start:	0.223W/Kg	
Power reference end	0.217W/Kg	
Power reference change ²	-2.74%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots

1900 MHz Band Body SAR Plots:

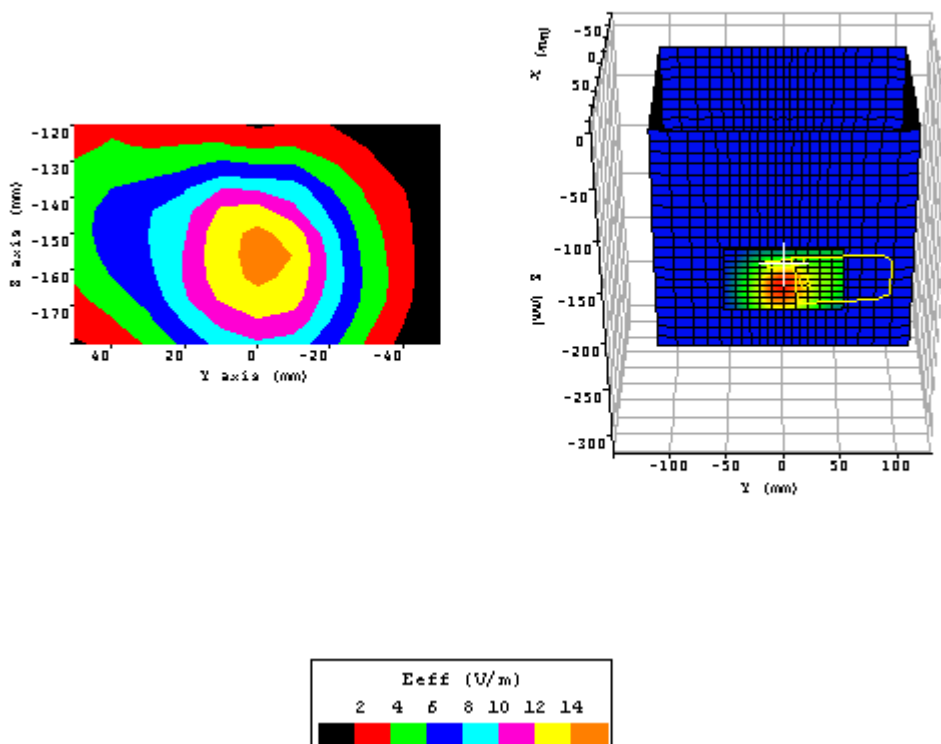


Plot 16.		
Date:	03/28/2003	
Temperature Air / Liquid:	21.6°C / 21.4°C	
Liquid mass density (ρ):	1	
DCP ¹	X=9, Y=13.6, Z=8.7	
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386	
Probe S/N:0123 liquid/air conversion Factor	0.610	
Simulated tissue dielectric parameters:	ϵ_r : 53.16	σ : 1.579
Position:	Body	
Channel / Frequency	661 / 1880 MHz	
Maximum 1 gram SAR:	0.396W/Kg	
Maximum 10 gram SAR:	0.218W/Kg	
Power reference start:	0.103W/Kg	
Power reference end	0.107W/Kg	
Power reference change ²	3.52%	

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots



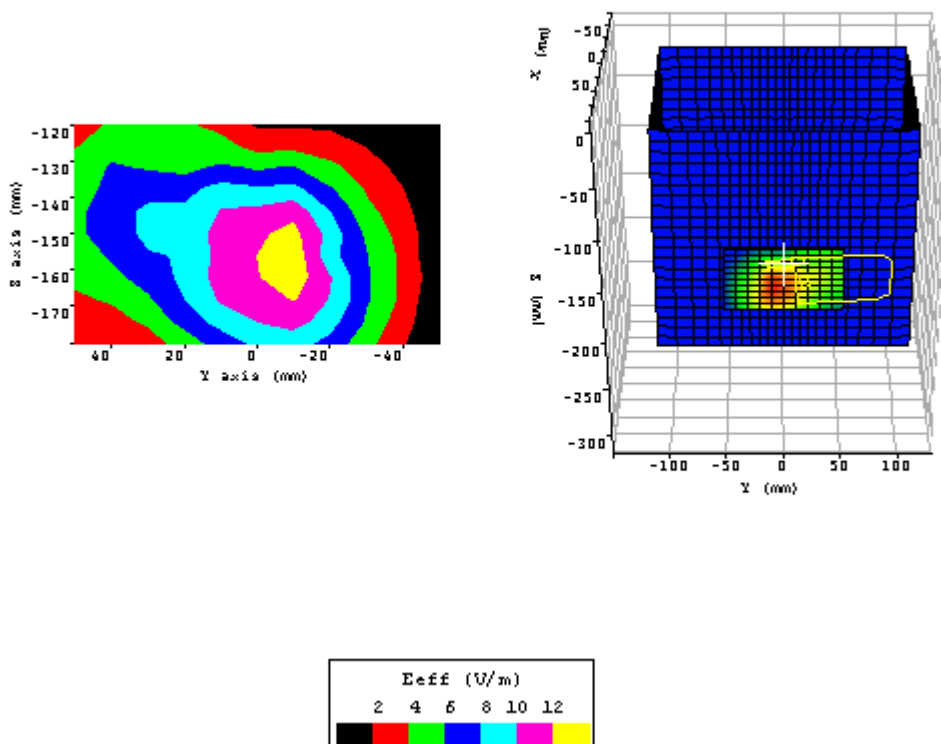
Plot 17.

Date:	03/28/2003
Temperature Air / Liquid:	21.6°C / 21.4°C
Liquid mass density (ρ):	1
DCP ¹	X=9, Y=13.6, Z=8.7
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.610
Simulated tissue dielectric parameters:	ϵ_r : 53.35 σ : 1.563
Position:	Body
Channel / Frequency	512 / 1850.2 MHz
Maximum 1 gram SAR:	0.470W/Kg
Maximum 10 gram SAR:	0.265W/Kg
Power reference start:	0.136W/Kg
Power reference end	0.134W/Kg
Power reference change ²	-1.72%

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

Appendix A Measurement Plots



Plot 18.

Date:	03/28/2003
Temperature Air / Liquid:	21.6°C / 21.4°C
Liquid mass density (ρ):	1
DCP ¹	X=9, Y=13.6, Z=8.7
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.610
Simulated tissue dielectric parameters:	ϵ_r : 52.92 σ : 1.58
Position:	Body
Channel / Frequency	810 / 1909.8 MHz
Maximum 1 gram SAR:	0.368W/Kg
Maximum 10 gram SAR:	0.202W/Kg
Power reference start:	0.093W/Kg
Power reference end	0.093W/Kg
Power reference change ²	0.00%

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.