



Right Head -15° Tilt Position (Close-up)

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 73 of 118



Body SAR w/ Belt-clip & Headset

PCTEST[®] SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 74 of 118



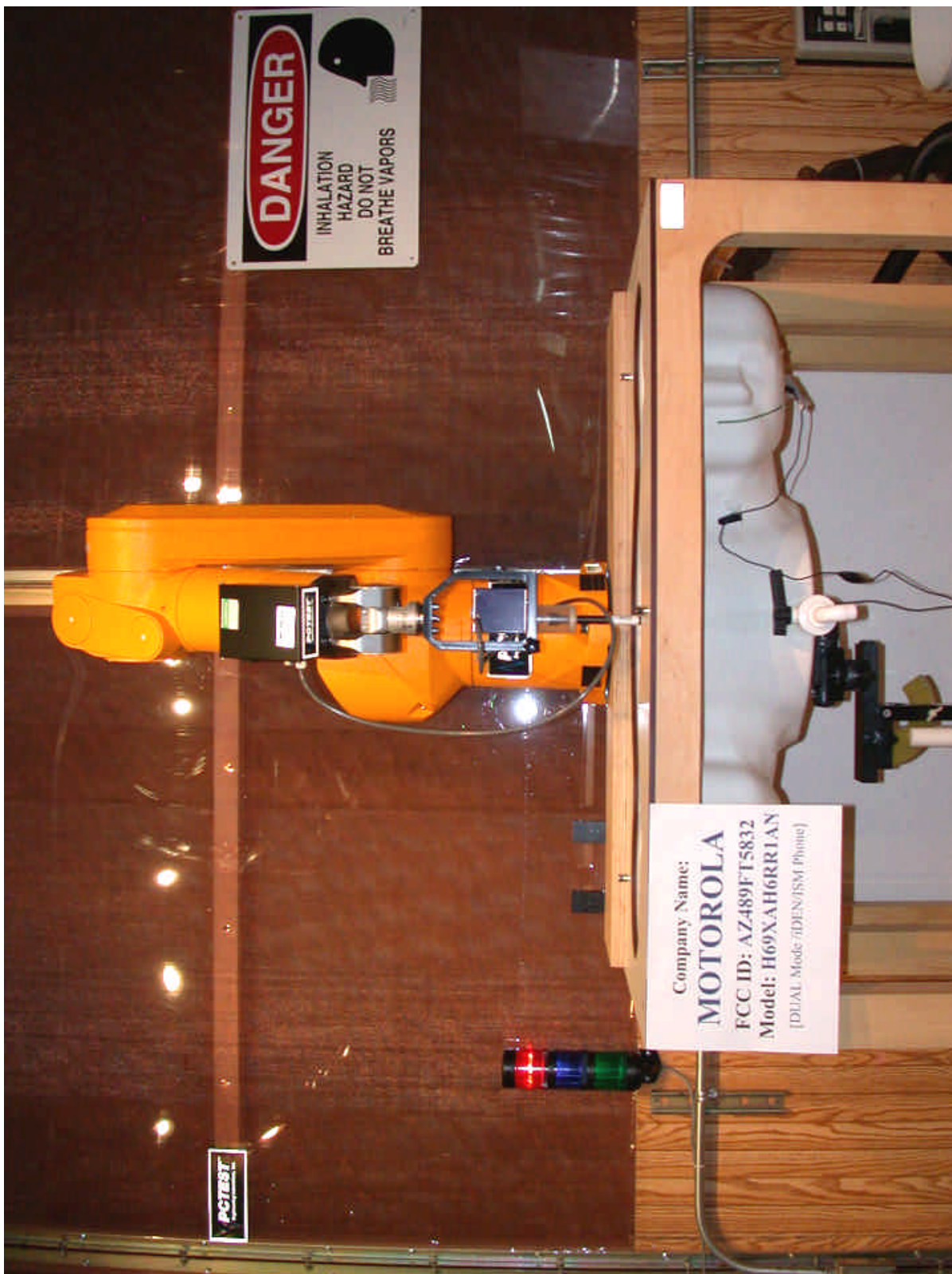
Body SAR w/ Belt-clip & Headset

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 75 of 118



Body SAR w/ Belt-clip & Headset (Close-up)

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 76 of 118



Body SAR - No Belt-clip w/ Headset

PCTEST SAR REPORT	 FCC CERTIFICATION 			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 77 of 118



Body SAR - No Belt-clip w/ Headset

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
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Body SAR - No Belt-clip w/ Headset (Close-up)

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 79 of 118



Body SAR w/out Belt-clip

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 80 of 118



Body SAR w/out Belt-clip

PCTEST SAR REPORT			FCC CERTIFICATION	 Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 81 of 118



Body SAR w/out Belt-clip (Close-up)

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 82 of 118



Body SAR w/Belt-clip

PCTEST SAR REPORT	 FCC CERTIFICATION 			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 83 of 118



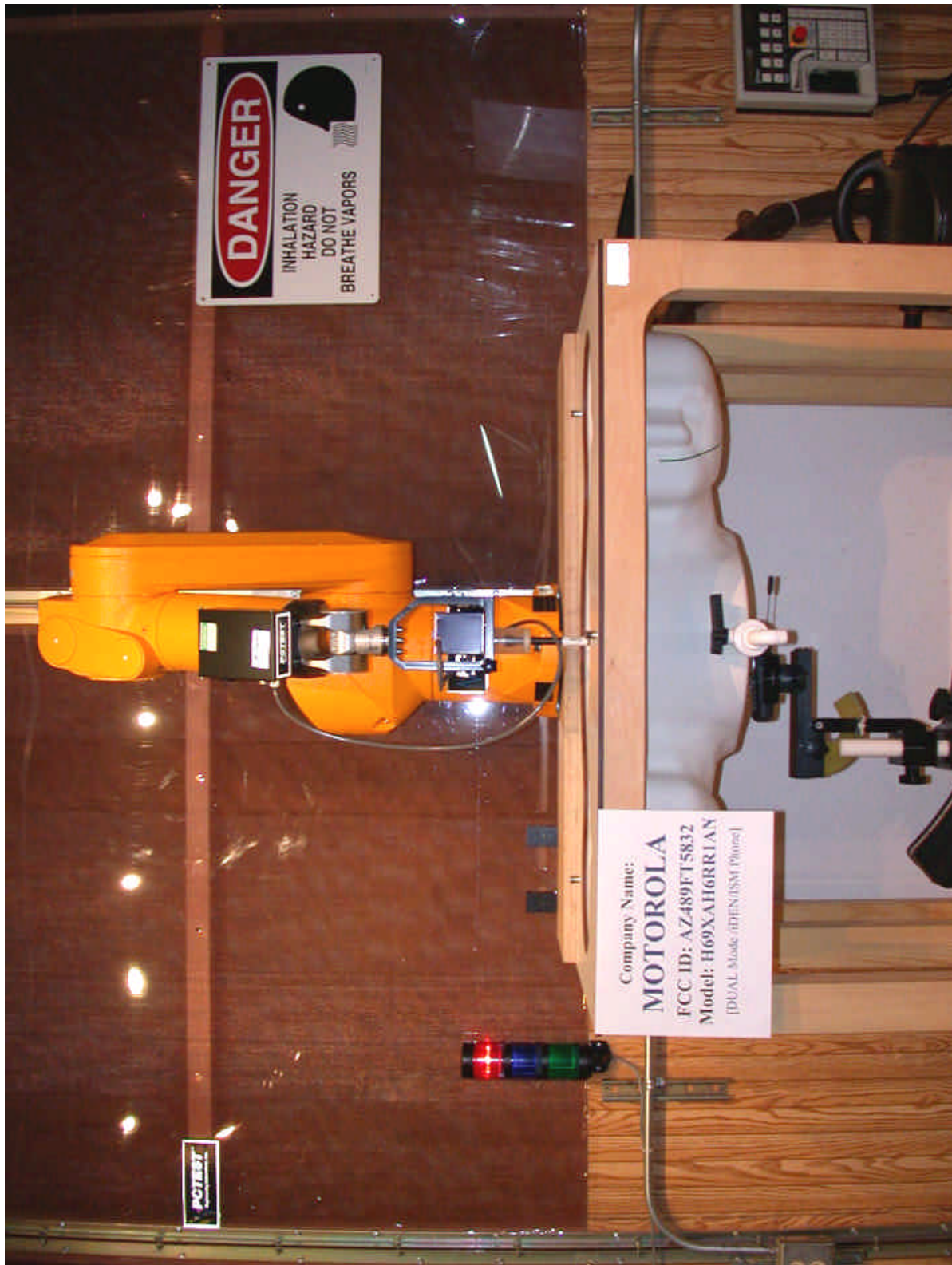
Body SAR w/ Belt-clip

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 84 of 118



Body SAR w/ Belt-clip (Close-up)

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		FCC ID: AZ489FT5832 Page 85 of 118



Face SAR

PCTEST [®] SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 86 of 118



Face SAR

PCTEST SAR REPORT			FCC CERTIFICATION	 Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 87 of 118



Face SAR (Close-up)

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 88 of 118

APPENDIX C: DIPOLE VALIDATION

PCTEST SAR REPORT			FCC CERTIFICATION	 Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 89 of 118

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.89$ mho/m, $\epsilon_r = 41.32$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-02-2004; Ambient Temp: 22.3°C; Tissue Temp: 20.6°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn455; Calibrated: 1/6/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

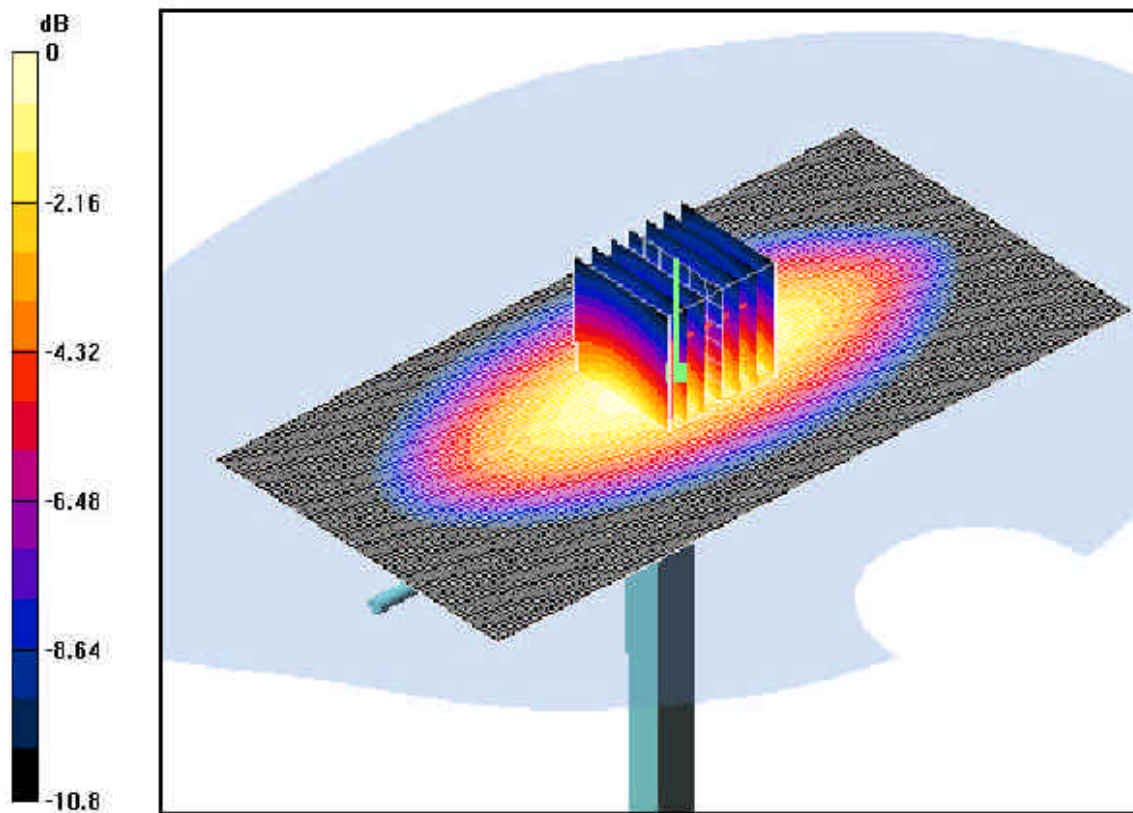
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.67 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +3.58 %



0 dB = 2.84mW/g

PCTEST SAR REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)	FCC ID: AZ489FT5832	Page 90 of 118

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.89$ mho/m, $\epsilon_r = 41.32$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-05-2004; Ambient Temp: 22.4°C; Tissue Temp: 20.6°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn445; Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

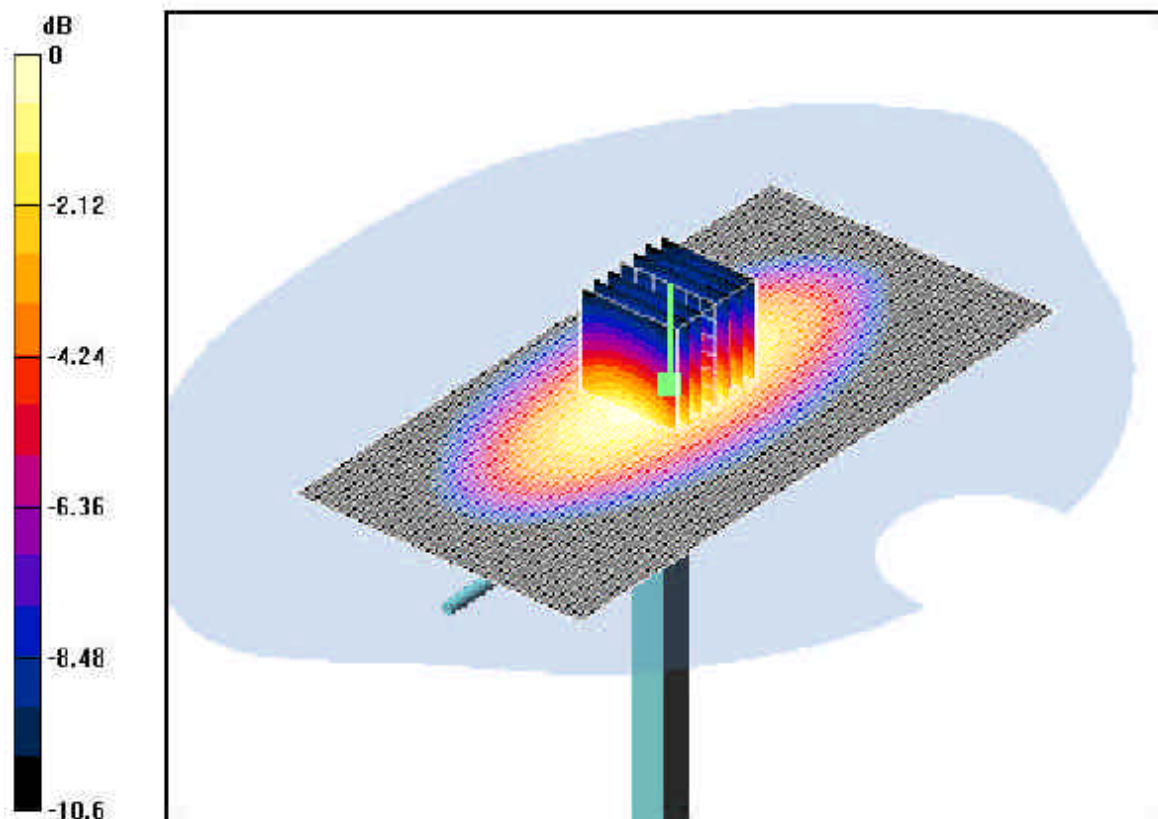
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.48 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = -2.32 %



PCTEST SAR REPORT	FCC CERTIFICATION		 FCC ID: AZ489FT5832	Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 91 of 118

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.89$ mho/m, $\epsilon_r = 41.32$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-06-2004; Ambient Temp: 21.6°C; Tissue Temp: 21.3°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn455; Calibrated: 1/6/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

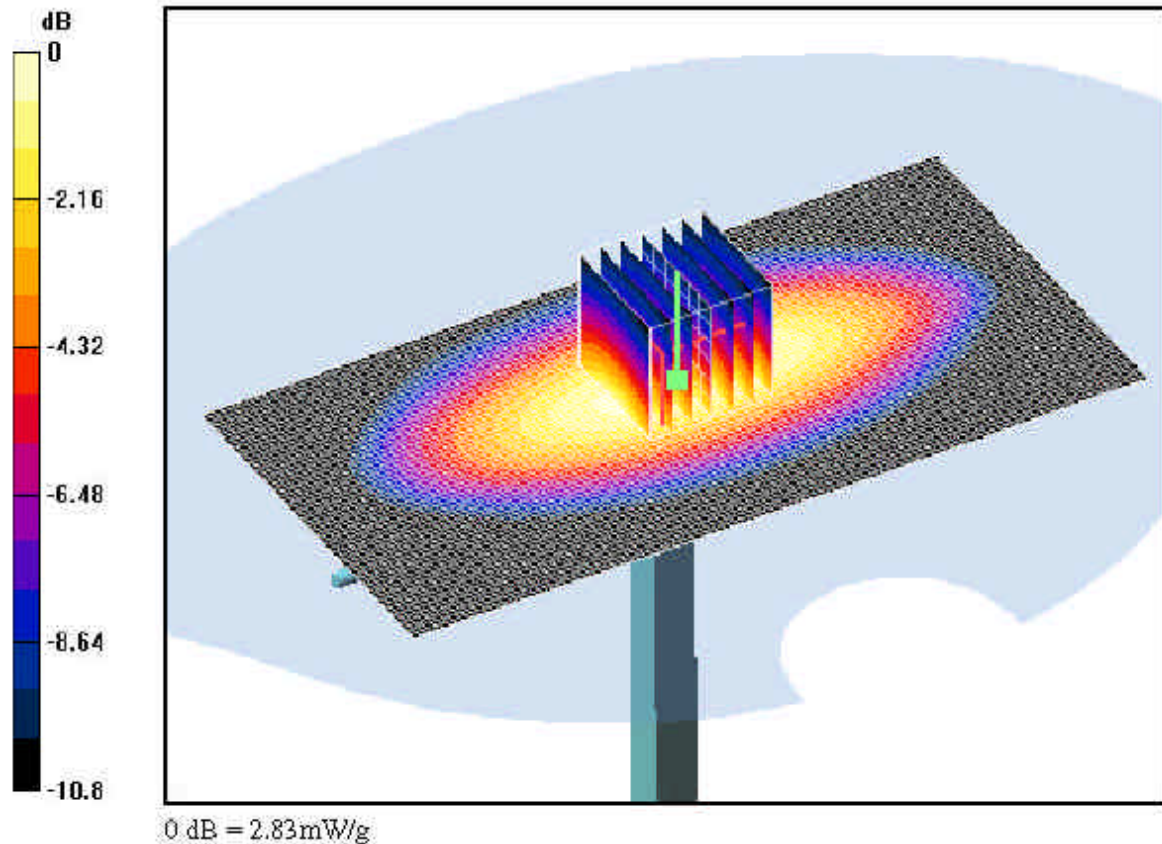
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.41 mW/g; SAR(10 g) = 1.60 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +1.47 %



PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 92 of 118

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.89$ mho/m, $\epsilon_r = 41.32$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-07-2004; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn455; Calibrated: 1/6/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

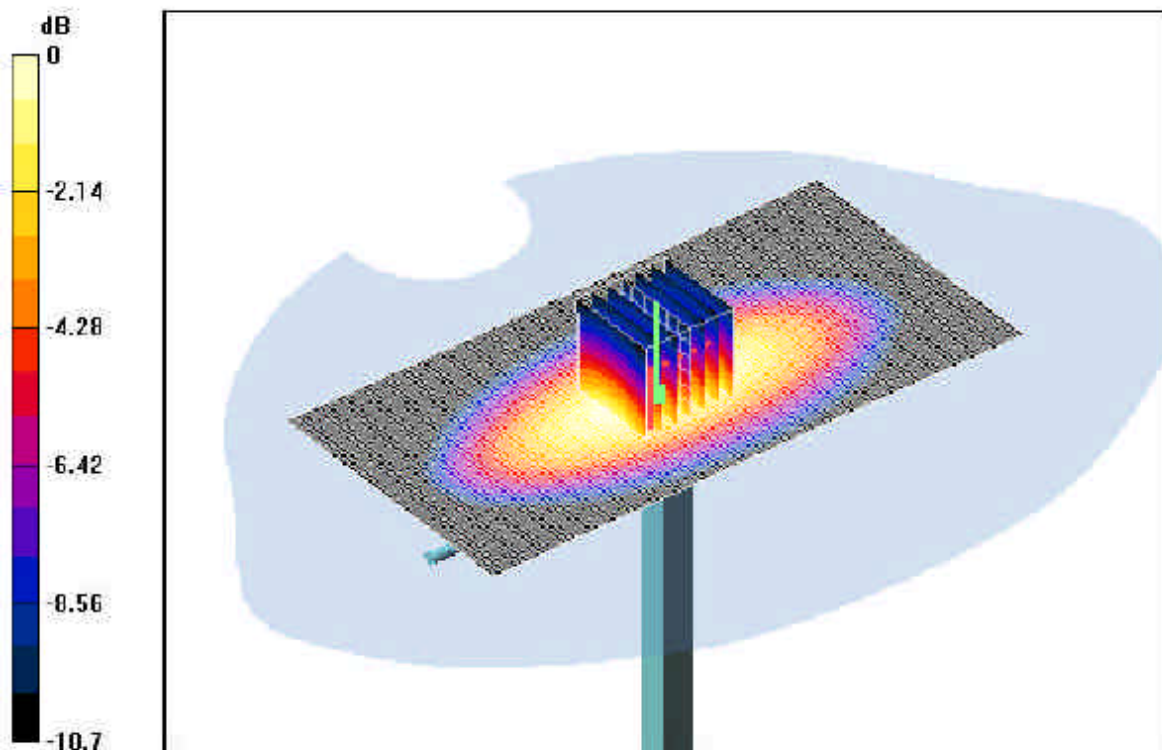
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.56 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +0.63 %



0 dB = 2.81mW/g

PCTEST SAR REPORT	FCC CERTIFICATION		 FCC ID: AZ489FT5832	Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 93 of 118

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.92$ mho/m, $\epsilon_r = 42.28$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-08-2004; Ambient Temp: 21.4 °C; Tissue Temp: 20.8 °C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn455; Calibrated: 1/6/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

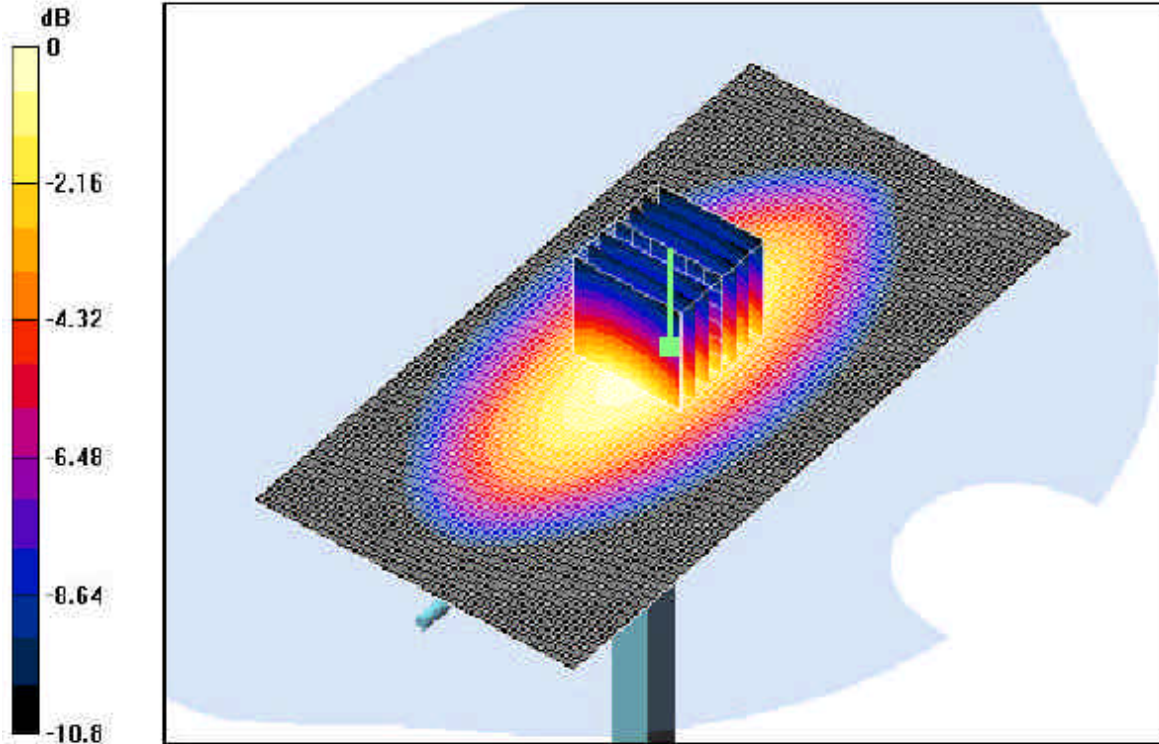
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.52 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +0.21 %



0 dB = 2.76mW/g

PCTEST SAR REPORT	FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR.240319197-R3.AZ4	Test Dates: April 2-8 & 16-17, 2004	Phone Type: Dual-Mode PTT Phone (iDEN/ISM)		Page 94 of 118

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.89$ mho/m, $\epsilon_r = 41.40$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Spacing: 1.5 cm

Test Date: 04-16-2004; Ambient Temp: 21.9°C; Tissue Temp: 21.2°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn455; Calibrated: 1/6/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

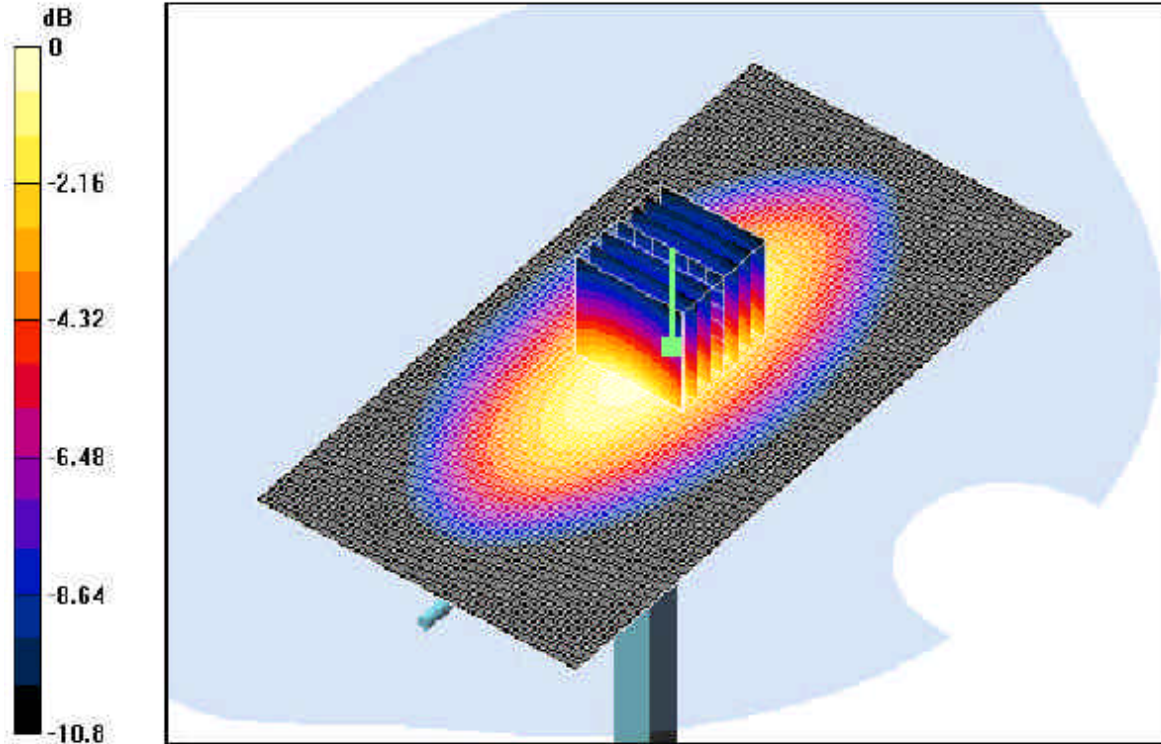
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.74 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +5.68 %



0 dB = 2.76mW/g

PCTEST SAR REPORT	FCC CERTIFICATION		 FCC ID: AZ489FT5832	Reviewed by: Quality Manager
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PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.89 \text{ mho/m}$, $\epsilon_r = 41.40$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-17-2004; Ambient Temp: 22.1°C; Tissue Temp: 21.6°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 Sn445; Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

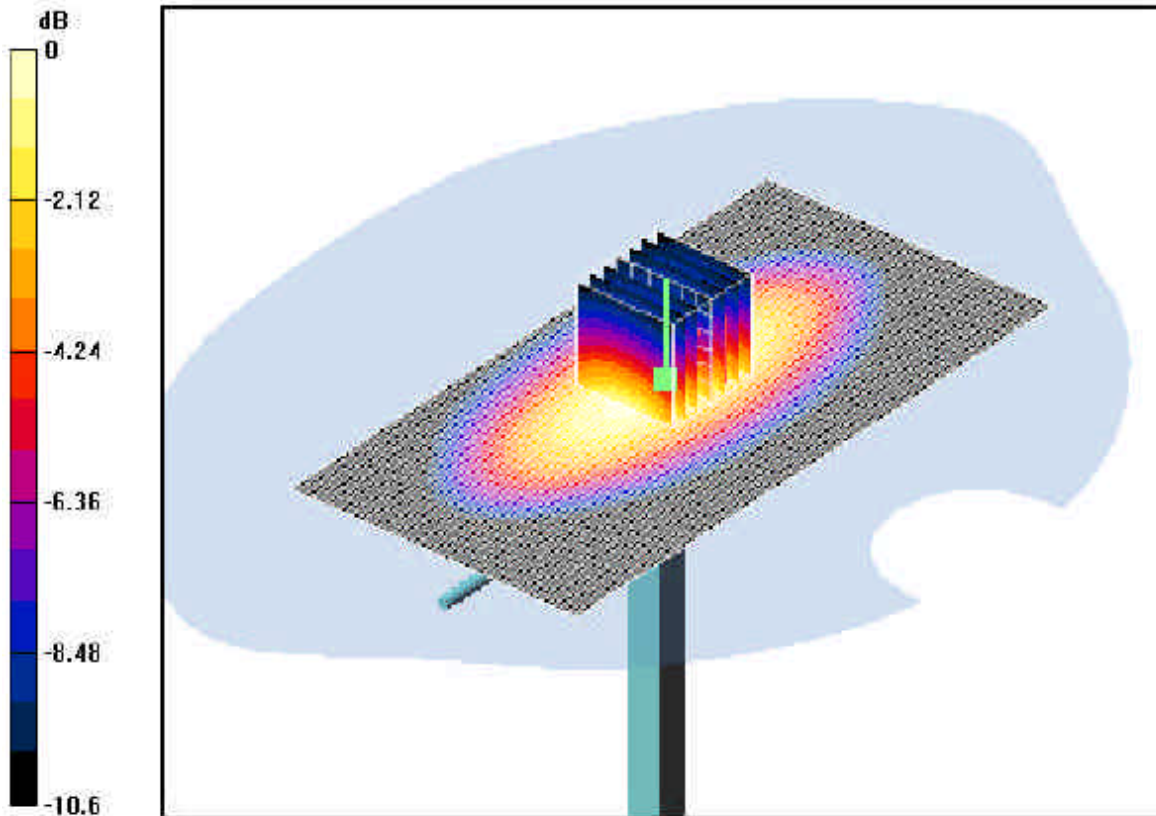
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.79 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +6.95 %



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