

Schmid & Partner Engineering AG



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Dosimetric E-Field Probe ET3DV6 SN:1604

Conversion factor (\pm standard deviation)

f = 150 MHz	ConvF	9.0 \pm 10%	$\epsilon_r = 52.3 \pm 5\%$ $\sigma = 0.76 \pm 5\%$ mho/m (head tissue)
f = 150 MHz	ConvF	8.6 \pm 10%	$\epsilon_r = 61.9 \pm 5\%$ $\sigma = 0.80 \pm 5\%$ mho/m (body tissue)
f = 300 MHz	ConvF	7.9 \pm 9%	$\epsilon_r = 58.2 \pm 5\%$ $\sigma = 0.92 \pm 5\%$ mho/m (body tissue)

Important Note:

For numerically assessed probe conversion factors, parameters Alpha and Delta in the DASY software must have the following entries: Alpha = 0 and Delta = 1.

Please see also Section 4.7 of the DASY4 Manual.

APPENDIX C – DIPOLE CALIBRATION CERTIFICATES

NCL CALIBRATION LABORATORIES

Calibration File No: DC-0267
Project Number: BACL-CAL2450-3985

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

BACL Validation Dipole

Manufacturer: APREL Laboratories

Part number: D-1800-S-1

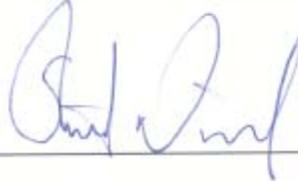
Frequency: 1800 MHz

Serial No: BCL-049

Customer: Bay Area Compliance Laboratory

Calibrated: 4th March 2005
Released on: 4th March 2005

Released By: _____



NCL CALIBRATION LABORATORIES

51 SPECTRUM WAY
NEPEAN, ONTARIO
CANADA K2R 1E6

Division of APREL Lab.
TEL: (513) 820-4988
FAX: (513) 820-4162

NCL Calibration Laboratories

Division of APREL Laboratories.

Conditions

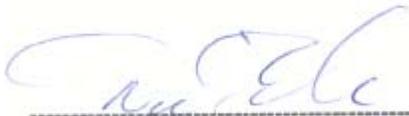
Dipole BCL-049 received from customer, with the attribute of having a repair to one radial arm, in good condition for re-calibration. SMA connector cleaned prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C
Temperature of the Tissue: 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this device has been accurately conducted and that all information contained within this report has been reviewed for accuracy.



Stuart Nicol
Director Product Development



D. Brooks
Member of Engineering Staff
(Calibration Engineer)

This page has been reviewed for content and attested to by signature within this document.

NCL Calibration Laboratories

Division of APREL Laboratories.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

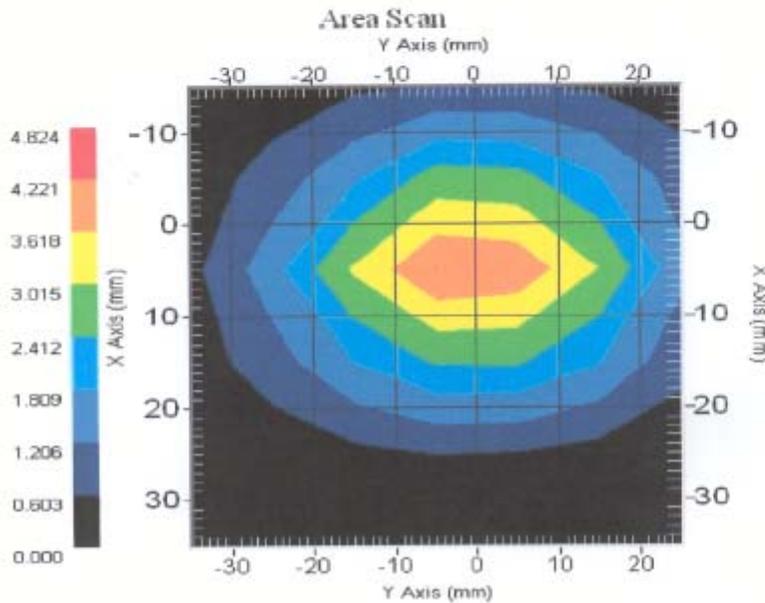
Length: 72.0 mm
 Height: 41.7 mm

Electrical Specification

SWR: 1.09 U
 Return Loss: -26.9 dB
 Impedance: 50.9 Ω

System Validation Results

Frequency	1 Gram	10 Gram	Peak
1800 MHz	38.81	20.01	71.56



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Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole BCL-049. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-020 130 MHz to 26 GHz E-Field Probe Serial Number 212.

References

SSI-TP-018-ALSAS Dipole Calibration Procedure
SSI-TP-016 Tissue Calibration Procedure
IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques"

Conditions

Dipole BCL-049 received from customer in good condition, with the attribute of a repair of one radial arm.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C
Temperature of the Tissue: 20 °C +/- 0.5°C

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Dipole Calibration Results**Mechanical Verification**

APREL Length	APREL Height	Measured Length	Measured Height
72.0 mm	41.7 mm	71.6 mm	41.7 mm

Tissue Validation

Head Tissue 1800 MHz	Measured
Dielectric constant, ϵ_r	40.0
Conductivity, σ [S/m]	1.40

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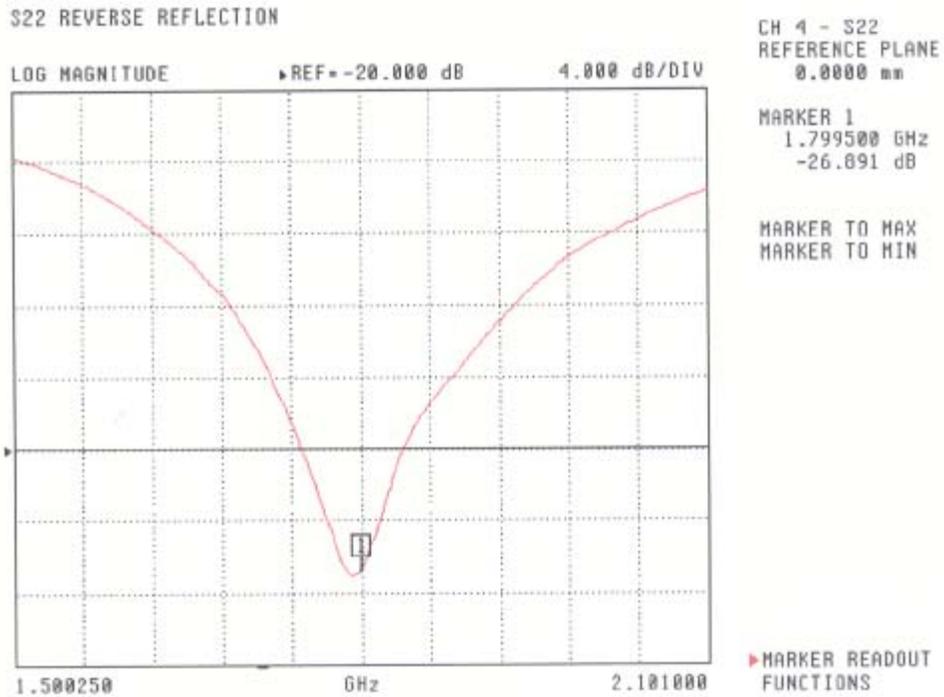
Division of APREL Laboratories.

Electrical Calibration

Test	Result
S11 R/L	-26.9 dB
SWR	1.09 U
Impedance	50.9 Ω

The Following Graphs are the results as displayed on the Vector Network Analyzer.

S11 Parameter Return Loss



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SWR

S22 REVERSE REFLECTION



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 1
1.799500 GHz
1.095 U

MARKER TO MAX
MARKER TO MIN

MARKER READOUT
FUNCTIONS

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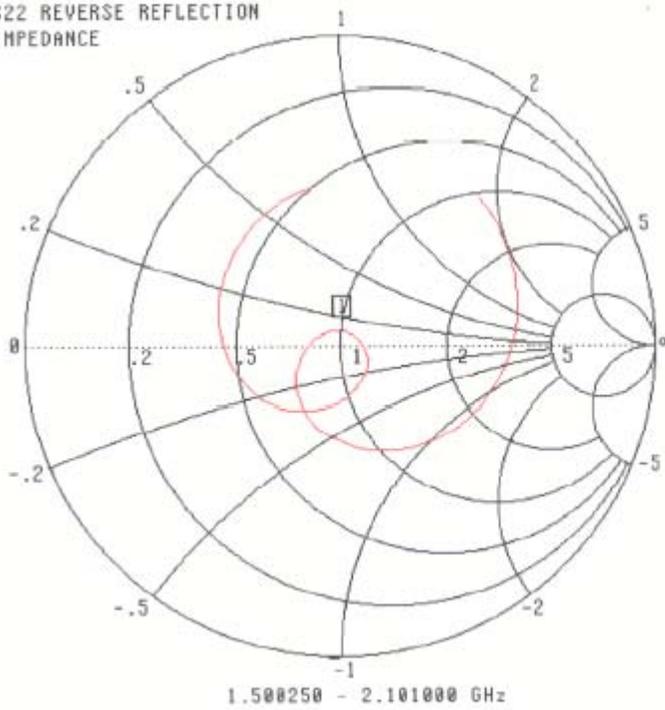
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Smith Chart Dipole Impedance

S22 REVERSE REFLECTION
IMPEDANCE



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 1
1.799500 GHz
50.963 Ω
4.489 $j\Omega$

MARKER TO MAX
MARKER TO MIN

▶ MARKER READOUT
FUNCTIONS

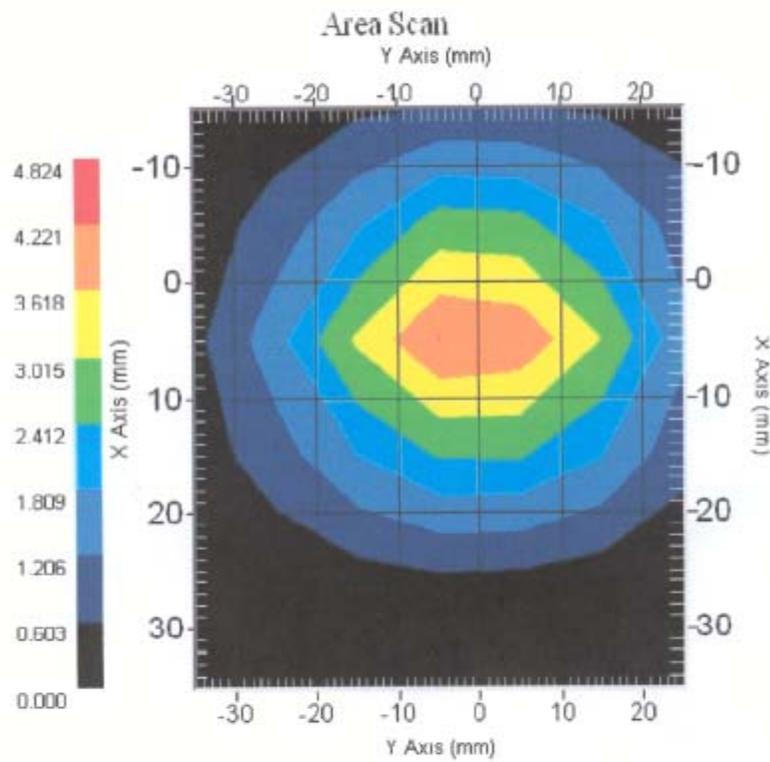
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System Validation Results Using the Electrically Calibrated Dipole

Head Tissue Frequency	1 Gram	10 Gram	Peak Above Feed Point
1800 MHz	38.81	20.01	71.56



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Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004

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APPENDIX D - TEST SYSTEM VERIFICATIONS SCANS

Liquid Measurement Result

2005-06-16

Simulant	Freq [MHz]	Parameters	Liquid Temp [°C]	Target Value	Measured Value	Deviation	Limits [%]
Body	1900	ϵ_r	22.0	53.3	54.0	1.31	± 5
		σ	22.0	1.52	1.53	0.66	± 5
		1g SAR	22.0	24.97	23.8	-4.69	± 10
Head	1900	ϵ_r	22.0	40.0	39.8	-0.50	± 5
		σ	22.0	1.40	1.45	3.57	± 5
		1g SAR	22.0	39.7	38.7	-2.52	± 10

ϵ_r = relative permittivity, σ = conductivity and $\rho=1000\text{kg/m}^3$

Date/Time: 6/16/2005 10:53:11 AM; Date/Time: 6/16/2005 10:58:31 AM

Test Laboratory: Bay Area Compliance Lab Corp.

System Validation for Body

DUT: Dipole 1800 MHz; Type: D1800; Serial: D1800 - SN:xxx

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.79, 4.79, 4.79); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Power Input=1W/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 27.6 mW/g

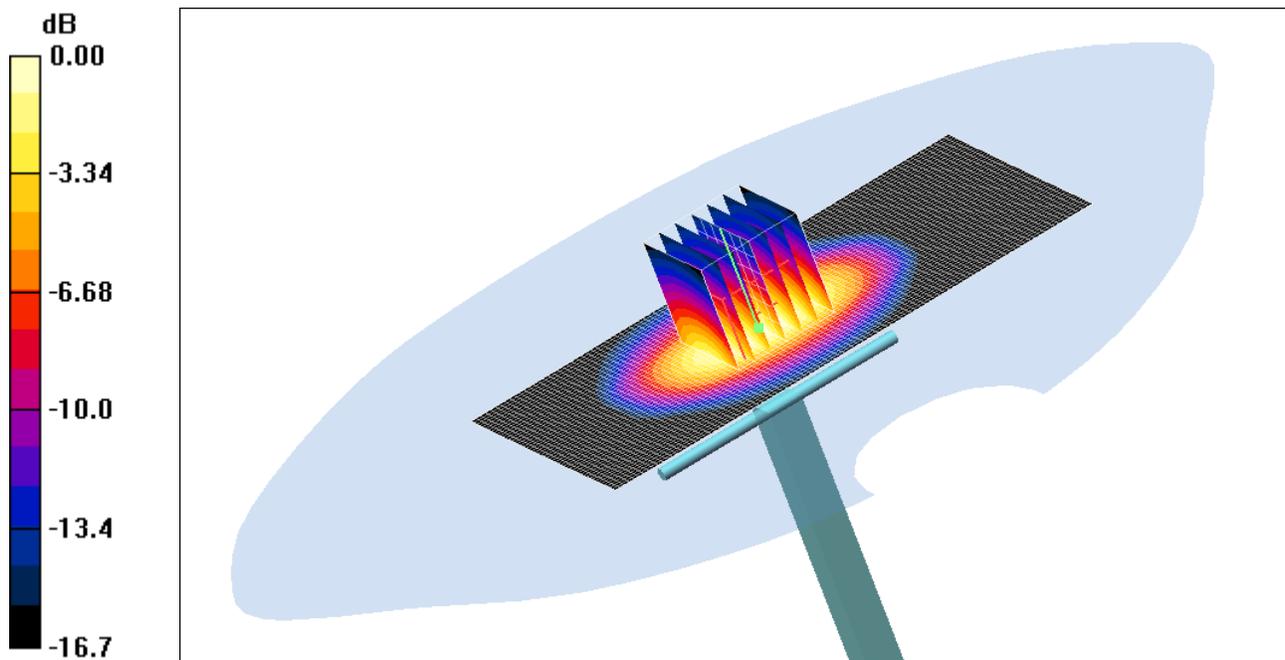
d=10mm, Power Input=1W/Zoom Scan (5x5x5) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 140.4 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 38.7 W/kg

SAR(1 g) = 23.8 mW/g; SAR(10 g) = 12.1 mW/g

Maximum value of SAR (measured) = 25.6 mW/g



0 dB = 25.6mW/g

Date/Time: 5/26/2005 4:56:14 PM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050526_ET_1604_SystemValidationCheck_D1900_Head.da4](#)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:5122
Program Name: System Performance Check at 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.79, 4.79, 4.79); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1W 2/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 45.2 mW/g

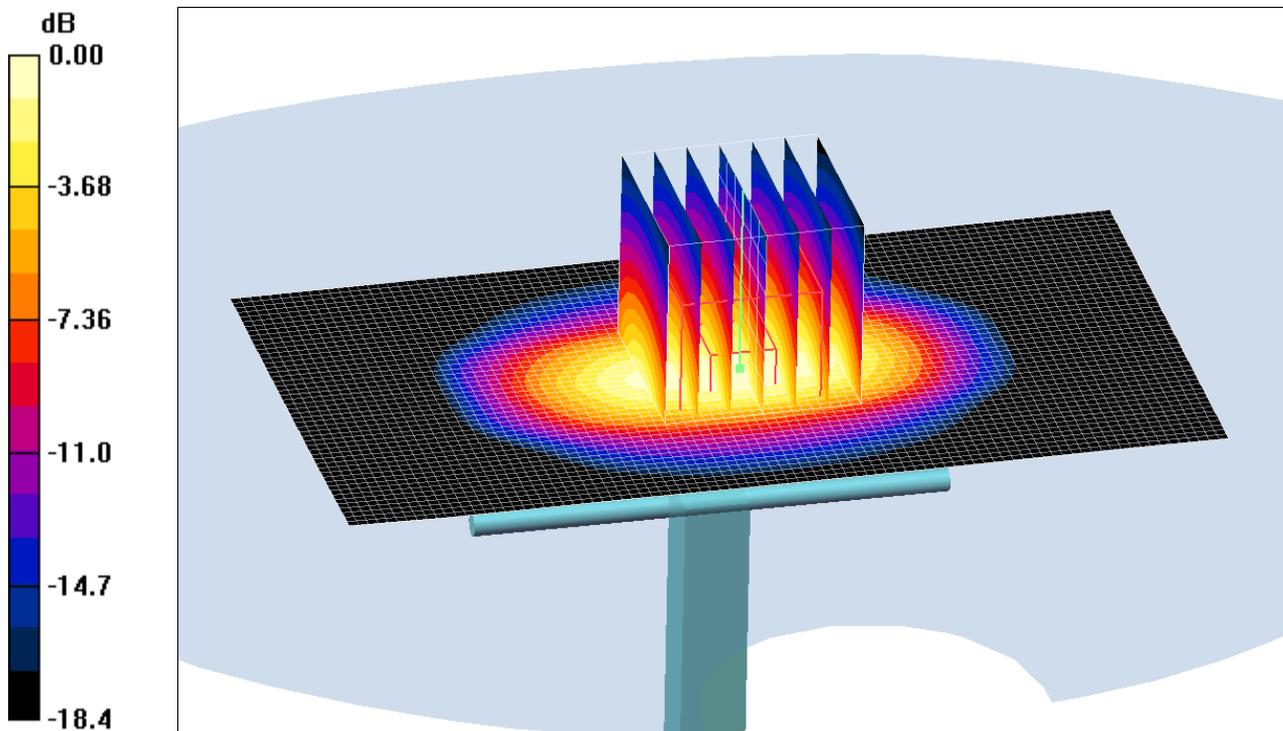
d=10mm, Pin=1W 2/Zoom Scan (7x7x7) 3 (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 164.8 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 66.9 W/kg

SAR(1 g) = 38 mW/g; SAR(10 g) = 19.7 mW/g

Maximum value of SAR (measured) = 43.3 mW/g



0 dB = 43.3mW/g

APPENDIX E - EUT SCANS

Date/Time: 6/16/2005 11:12:20 AM : 6/16/2005 11:18:28 AM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050531_ZTE x100_Body.da4](#)

DUT: DUT; Type: Sample; Serial: Program Name: ZTE x100 (CDMA 1900)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.79, 4.79, 4.79); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

1.5cm Body position - Middle 2 2 2/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.019 mW/g

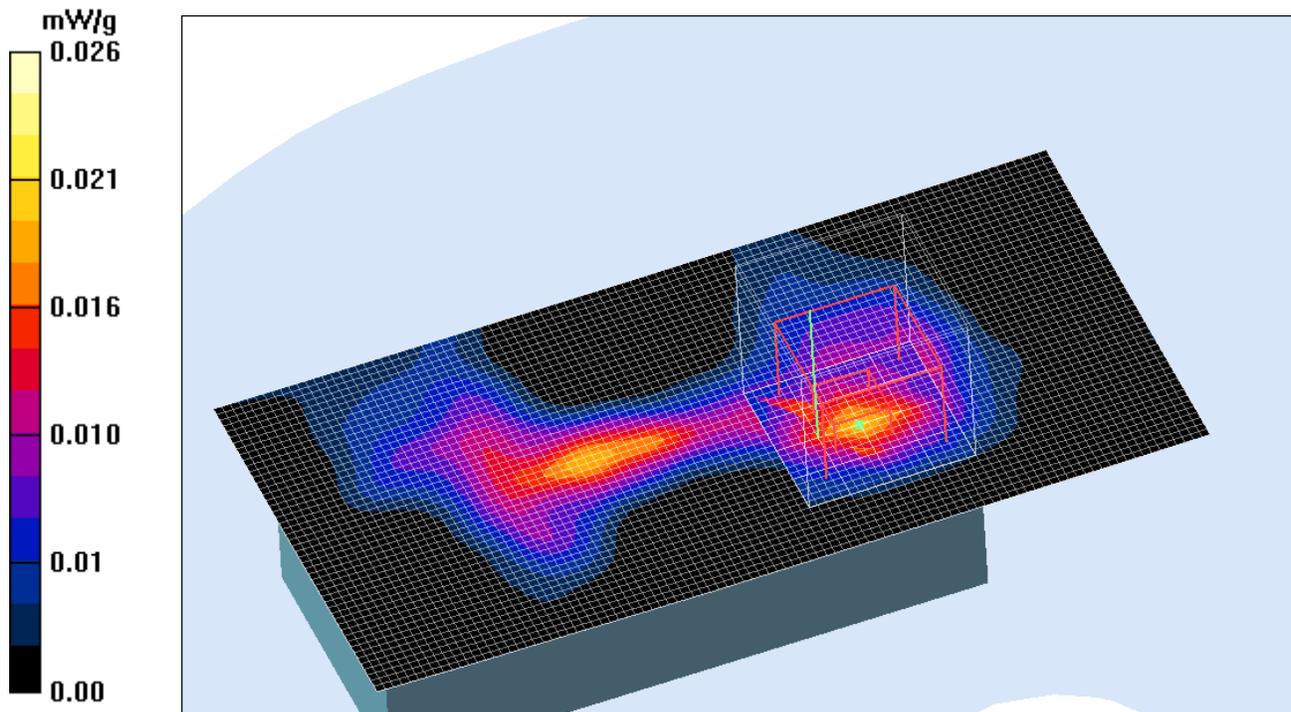
1.5cm Body position - Middle 2 2 2/Zoom Scan (7.5mmx5x7) (5x5x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.03 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.053 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00559 mW/g

Maximum value of SAR (measured) = 0.026 mW/g



Plot #1

Date/Time: 6/16/2005 3:47:36PM ; Date/Time: 6/16/2005 3:53:05 PM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050527_ZTE x100_Left Head.da4](#)**DUT: DUT; Type: Sample; Serial: Program Name: ZTE A12**

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.19, 5.19, 5.19); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.033 mW/g

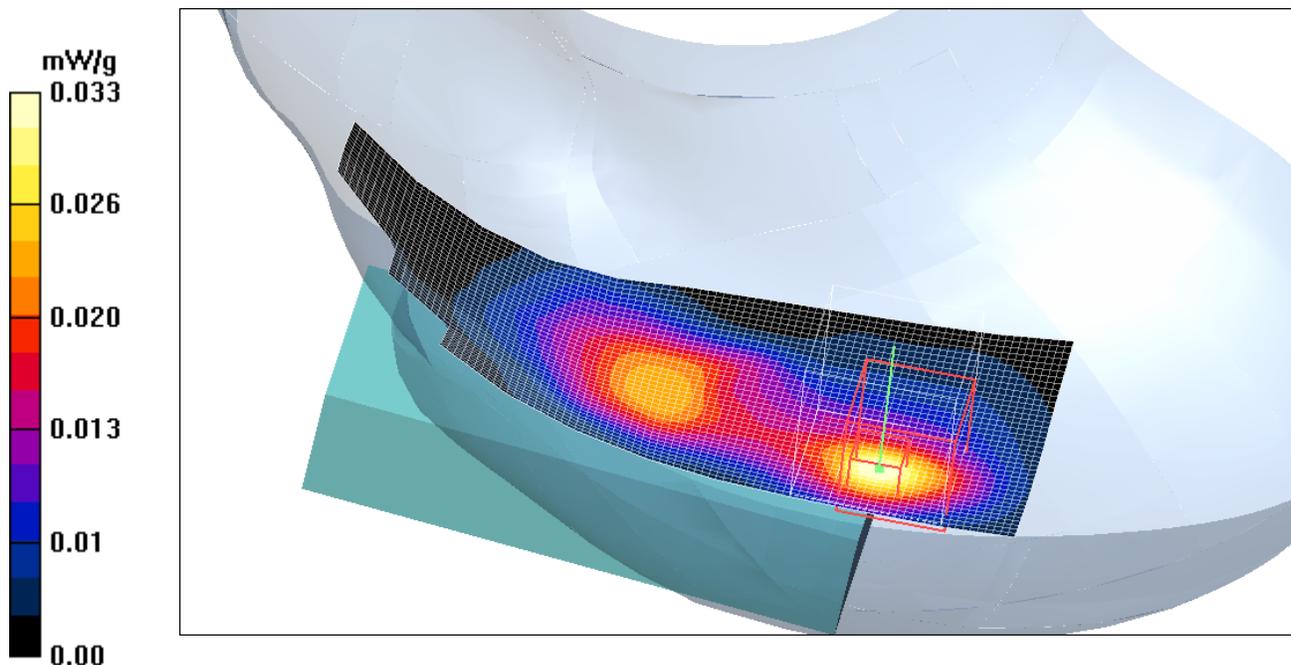
Touch position - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.14 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.085 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.00988 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



Plot #2

Date/Time: 6/16/2005 2:27:15 PM; Date/Time: 6/16/2005 2:32:10 PM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050527_ZTE x100_Left Head.da4](#)

DUT: DUT; Type: Sample; Serial: Program Name: ZTE A12

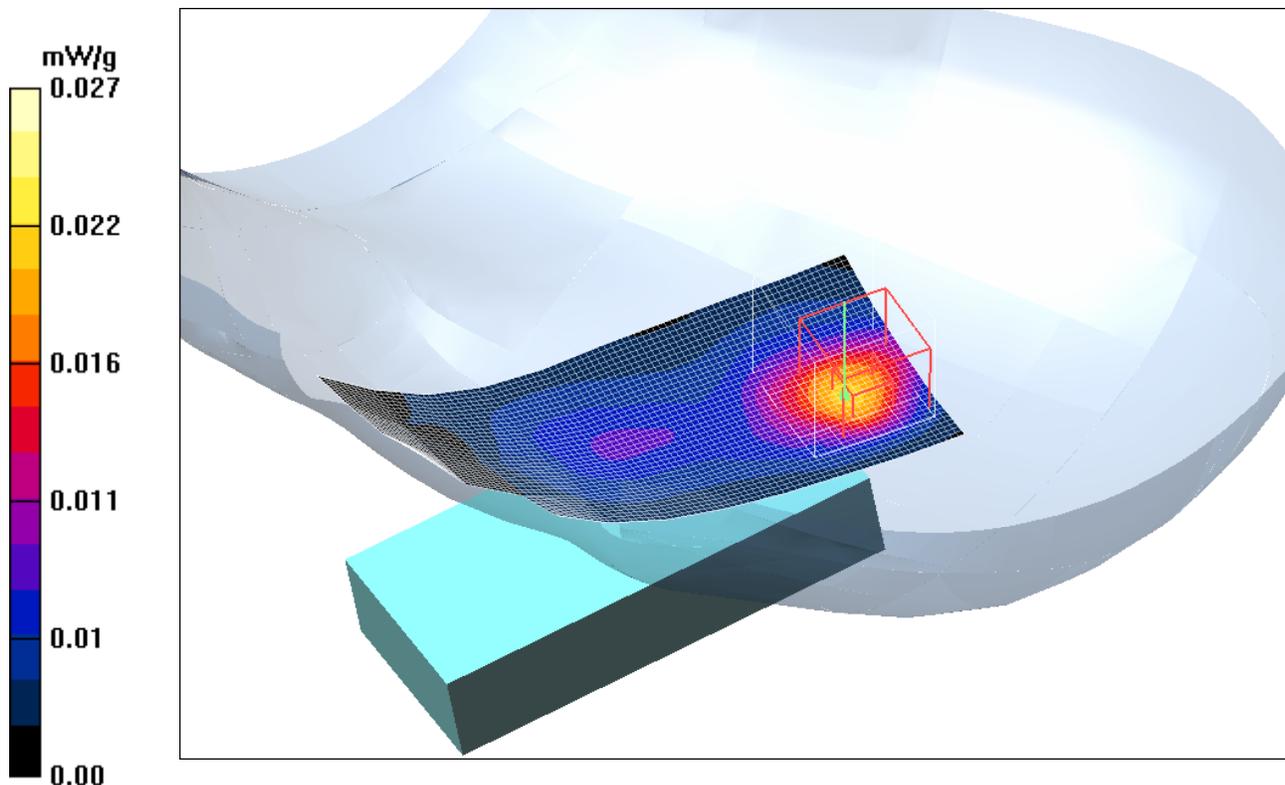
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.19, 5.19, 5.19); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (41x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.021 mW/g

Tilt position - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.33 V/m; Power Drift = 0.018 dB
 Peak SAR (extrapolated) = 0.058 W/kg
SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.00741 mW/g
 Maximum value of SAR (measured) = 0.027 mW/g



Plot #3

Date/Time: 6/16/2005 4:45:47 PM ;Date/Time: 6/16/2005 4:51:25 PM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050615_ZTE x100_Right Head.da4](#)**DUT: DUT; Type: Sample; Serial: Program Name: ZTE x100**

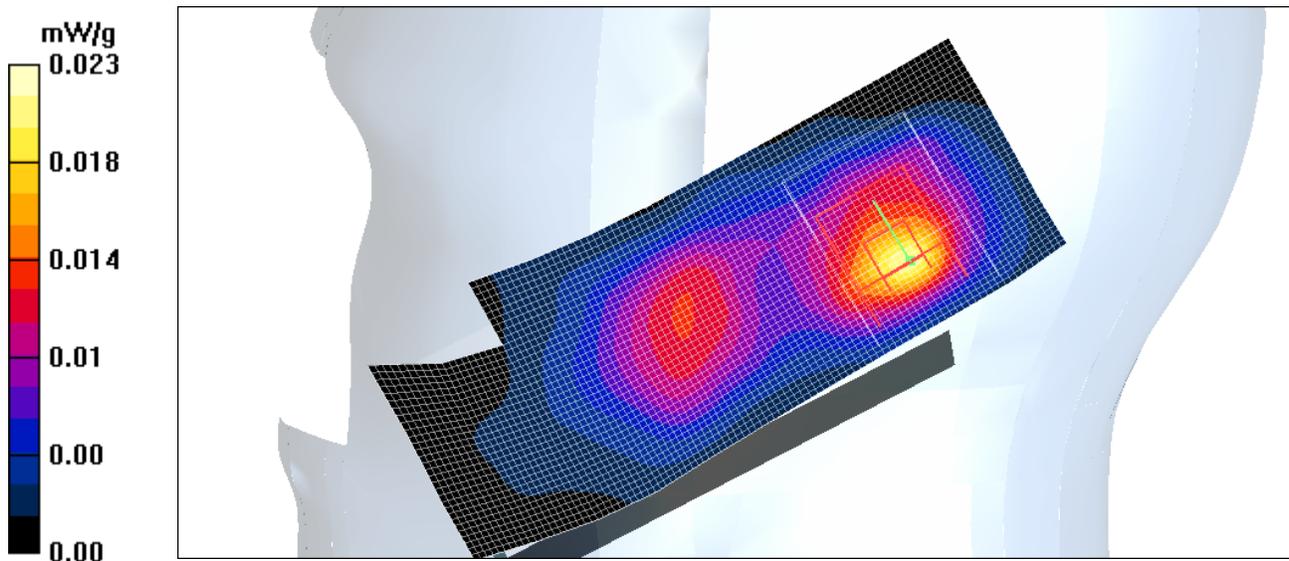
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.19, 5.19, 5.19); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.021 mW/g

Touch position - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.24 V/m; Power Drift = -0.186 dB
Peak SAR (extrapolated) = 0.033 W/kg
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00894 mW/g
Maximum value of SAR (measured) = 0.023 mW/g



Plot #4

Date/Time: 6/16/2005 4:23:06 PM; Date/Time: 6/16/2005 4:27:10 PM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050615_ZTE x100_Right Head.da4](#)**DUT: DUT; Type: Sample; Serial: Program Name: ZTE x100**

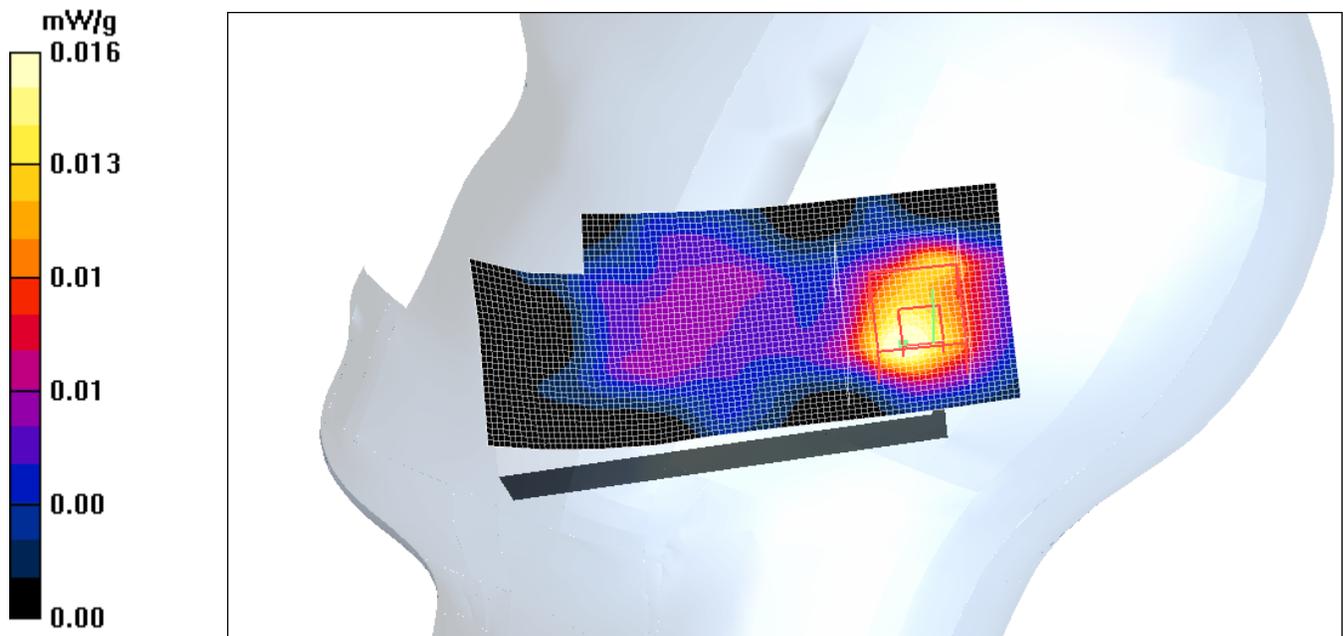
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.19, 5.19, 5.19); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 6/1/2004
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.017 mW/g

Tilt position - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.78 V/m; Power Drift = -0.192 dB
Peak SAR (extrapolated) = 0.049 W/kg
SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00642 mW/g
Maximum value of SAR (measured) = 0.016 mW/g



Plot #5

APPENDIX F – CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Test equipment

Hewlett Packard HP8564E Spectrum Analyzer, Calibration Due Date: 2005-10-04.

Hewlett Packard HP 7470A Plotter, Calibration not required.

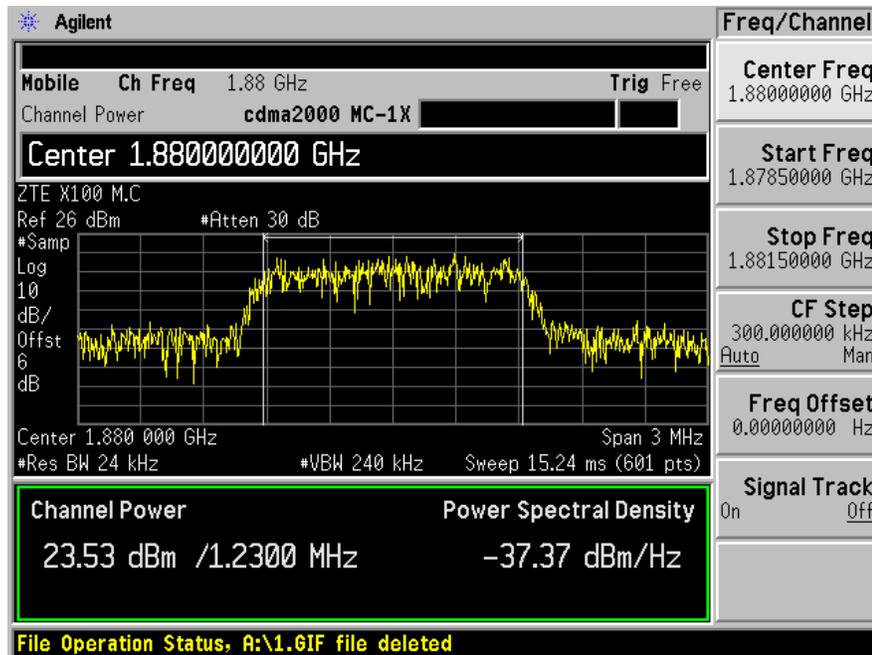
A.H. Systems SAS200 Horn Antenna, Calibration Due Date: 2005-05-31

Com-Power AB-100 Dipole Antenna, Calibration Due Date: 2005-09-05

Test Results

Frequency (MHz)	Output Power in dBm	Output Power in W
1880	23.53	0.225

Please refer to the following plots.



APPENDIX G – Z-AXIS PLOT

Date/Time: 6/16/2005 3:47:36 PM; Date/Time: 6/16/2005 3:53:05 PM

Test Laboratory: Bay Area Compliance Lab Corp.

File Name: [050527_ZTE x100_Left Head.da4](#)

DUT: DUT; Type: Sample; Serial: Program Name: ZTE A12

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.19, 5.19, 5.19); Calibrated: 3/18/2005

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE3 Sn456; Calibrated: 6/1/2004

- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.033 mW/g

Touch position - Middle/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=10mm

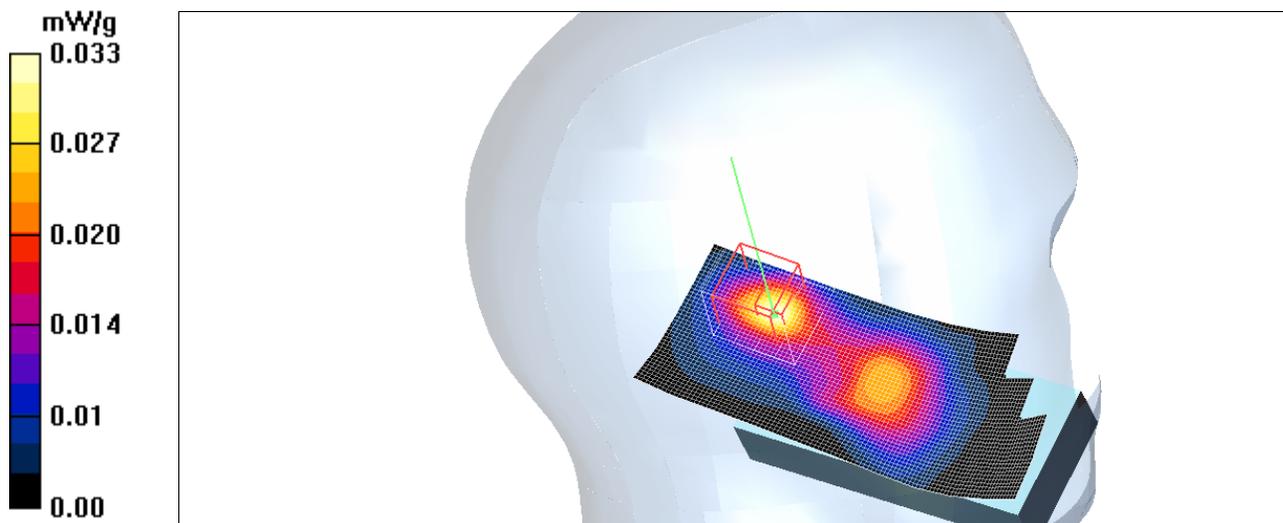
Touch position - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

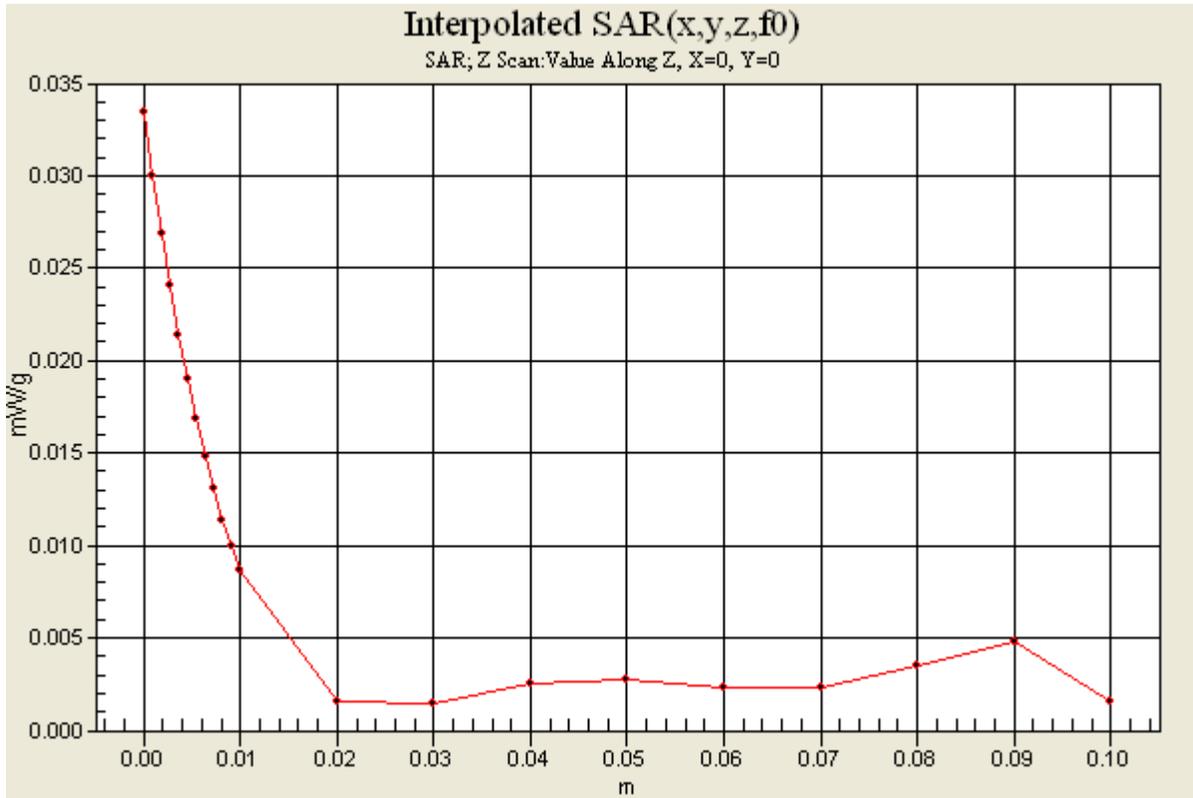
Reference Value = 2.14 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.085 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.00988 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



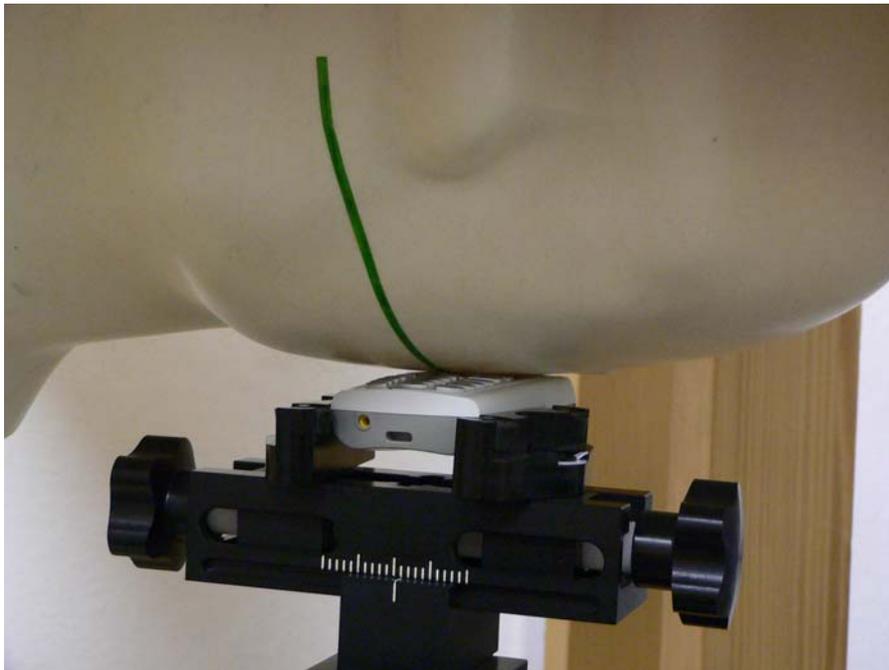


APPENDIX H – EUT TEST POSITION PHOTOS

Body Worn 1.5cm Separation View



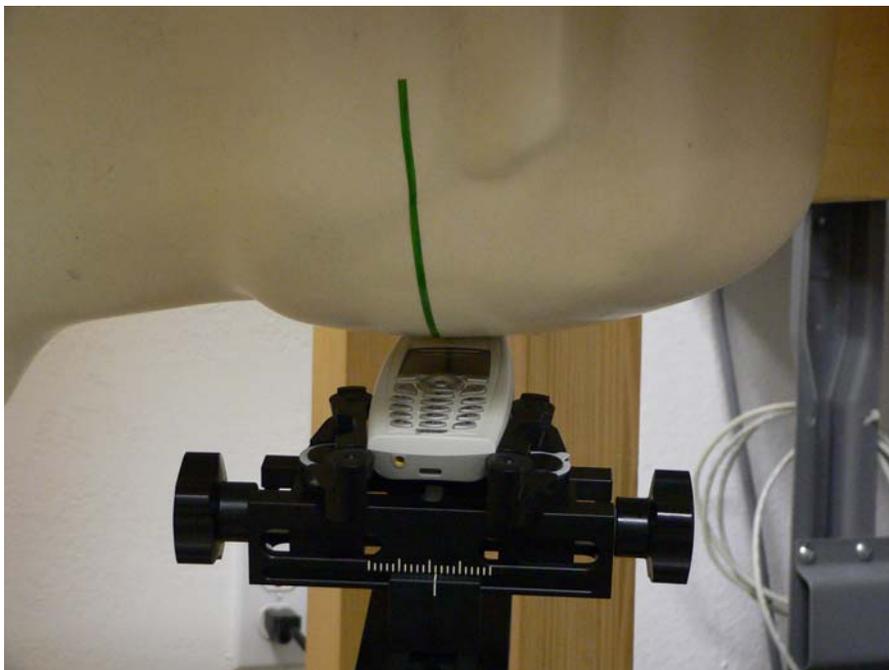
Left Head Cheek View



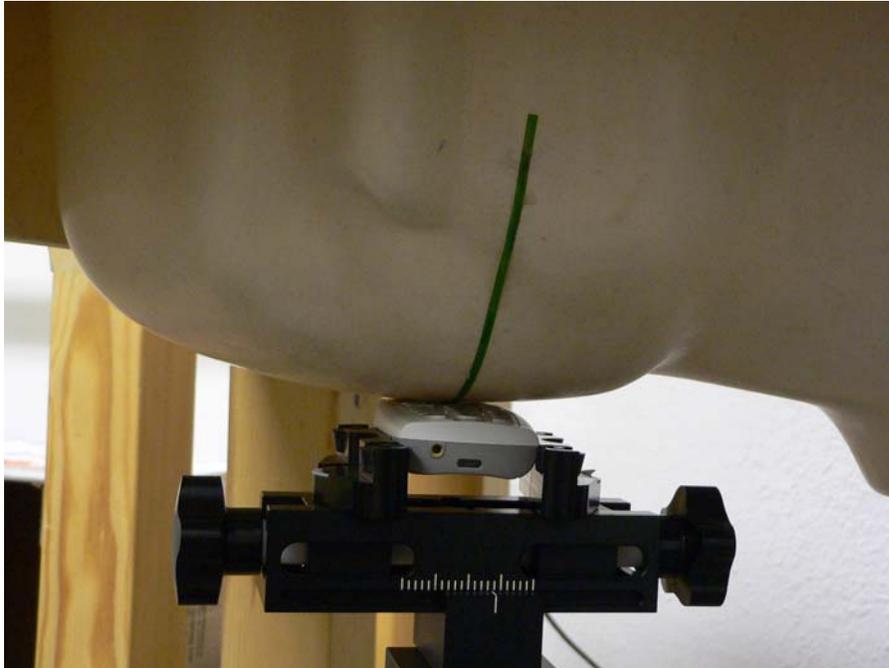
Left Head Tilted View I



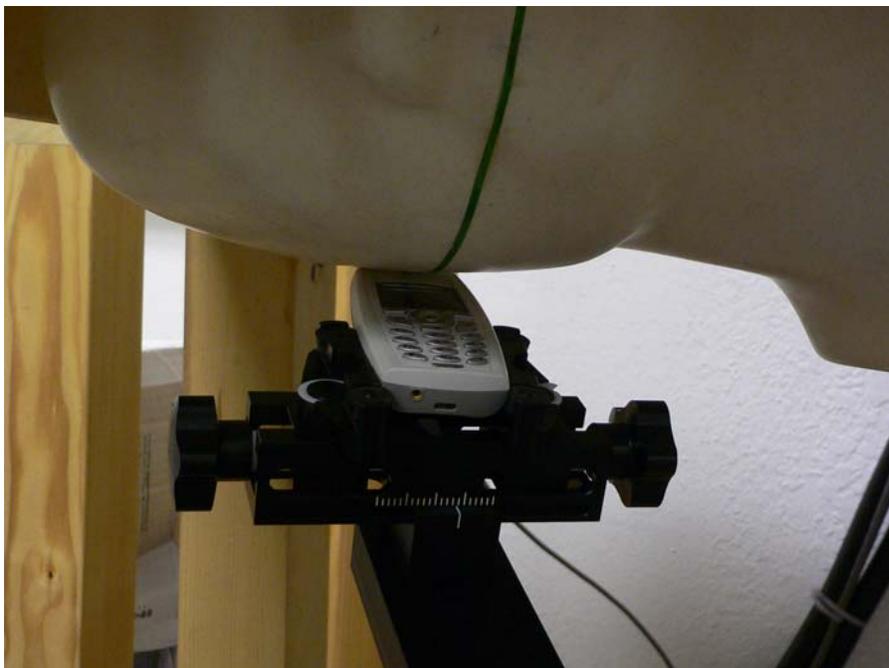
Left Head Tilted View II



Right Head Cheek View



Right Head Tilted View I



Right Head Tilted View II



APPENDIX I – EUT & ACCESSORIES PHOTOS

EUT – Top View



EUT – Bottom View



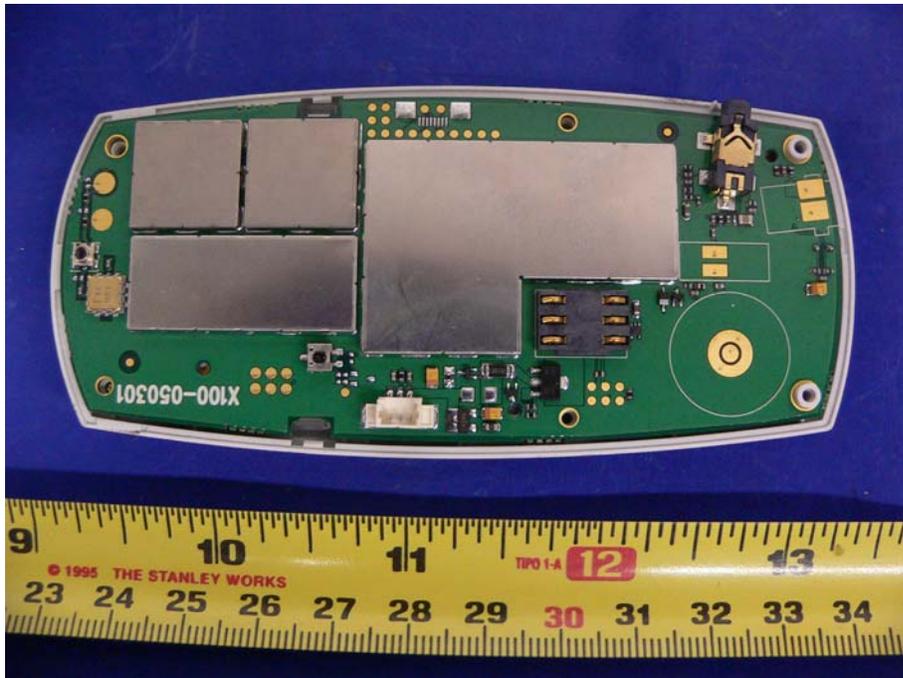
EUT – Earphone View



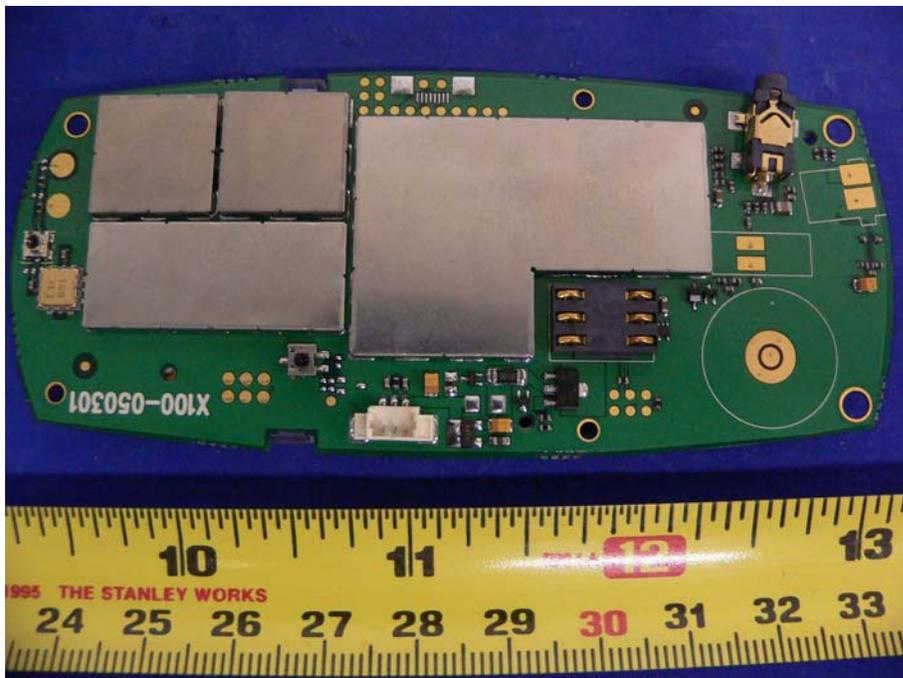
EUT – Battery off View



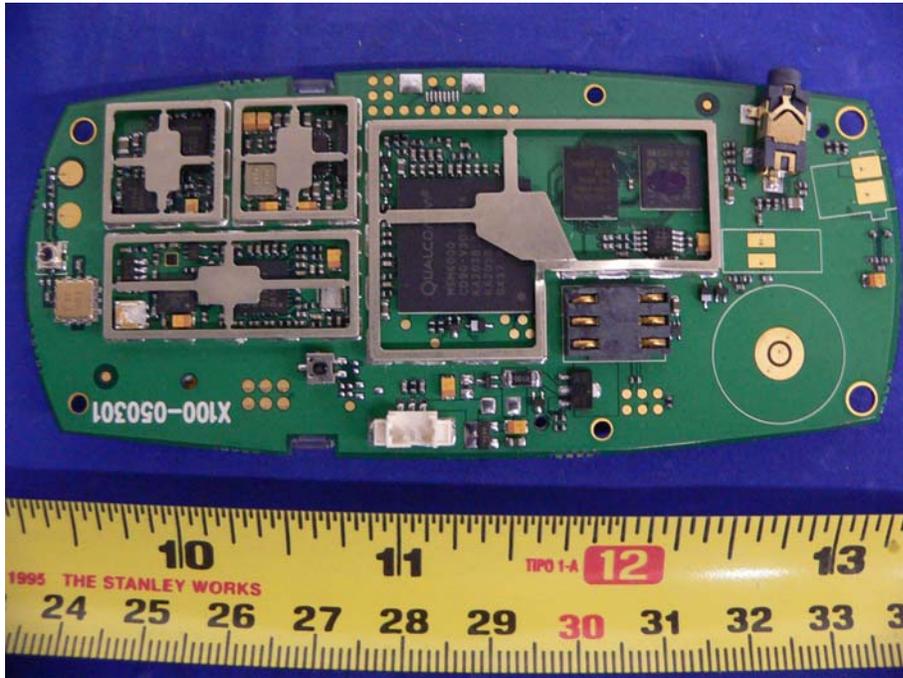
EUT - Cover Off



Components With Shielding



Components Without Shielding



EUT- Key pad and LCD Screen



Charger



Battery



APPENDIX J - INFORMATIVE REFERENCES

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