

NCL Calibration Laboratories

Division of APREL Laboratories.

Electrical Calibration

Test	Result
S11 R/L	-26.77 dB to -15.52 dB
SWR	1.095 U to 1.397 U
Impedance	47.81 Ω to 63.37 Ω

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

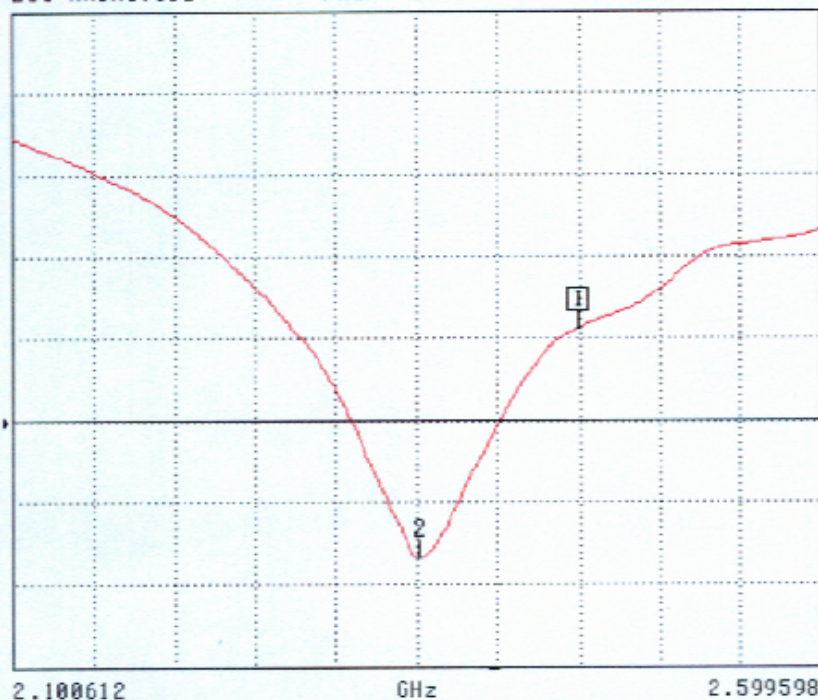
S11 Parameter Return Loss

S22 REVERSE REFLECTION

LOG MAGNITUDE

REF = -20.000 dB

4.000 dB/DIV



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 1
2.450046 GHz
-15.516 dB

MARKER TO MAX
▶ MARKER TO MIN

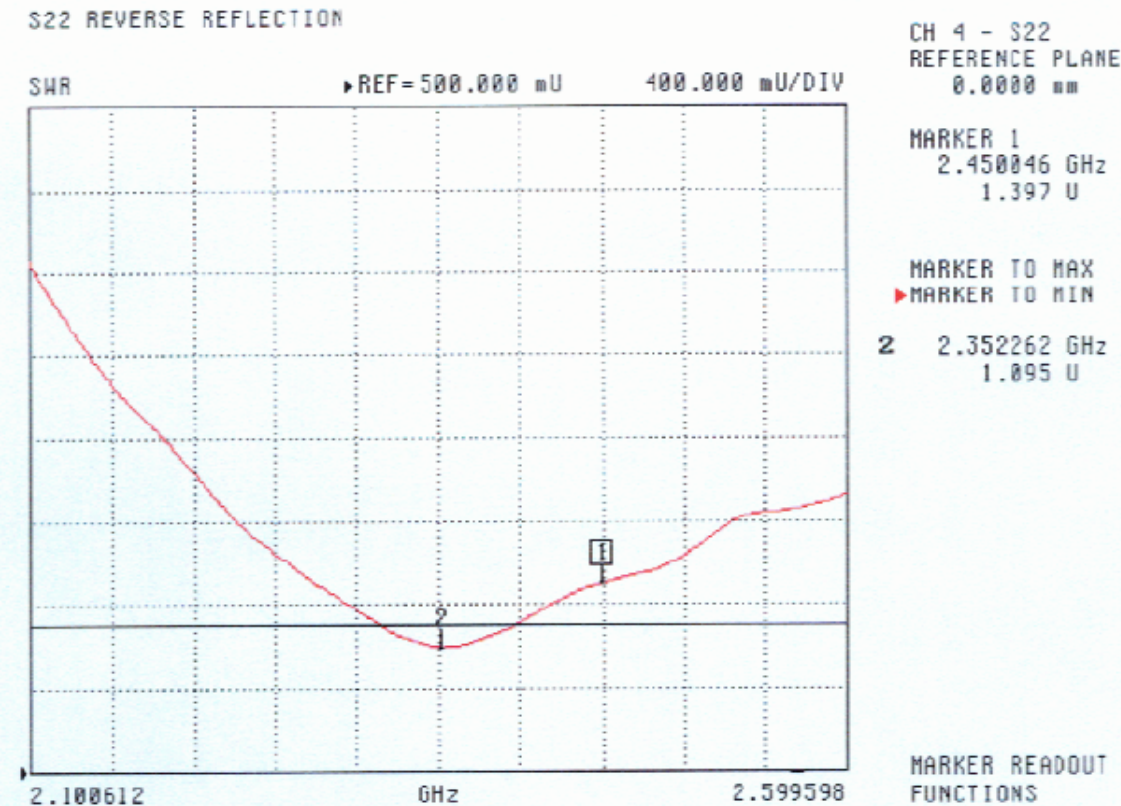
2 2.352262 GHz
-26.773 dB

MARKER READOUT
FUNCTIONS

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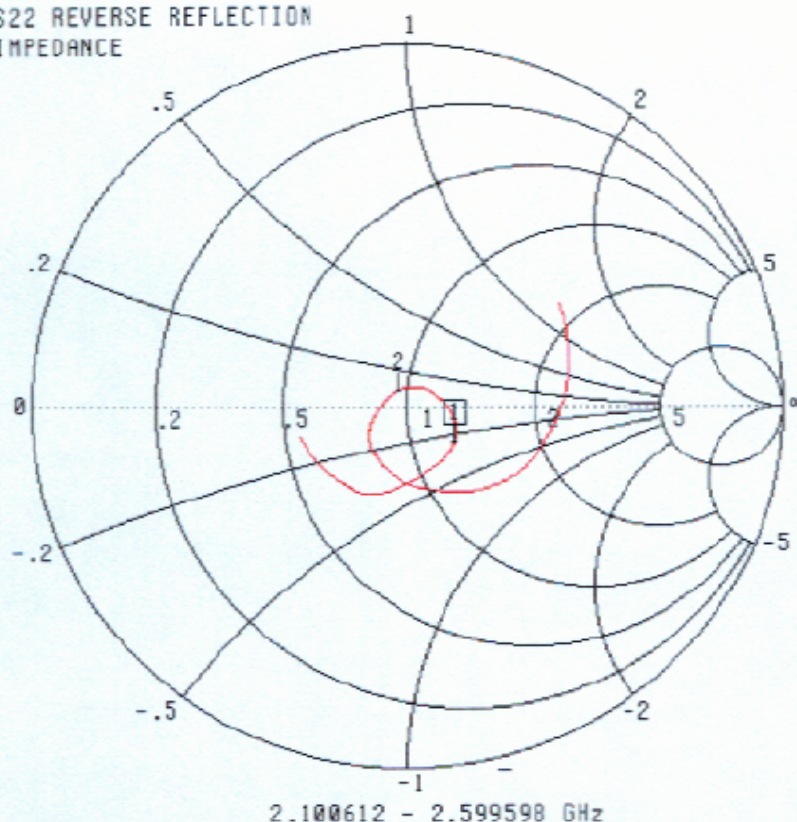
SWR



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Smith Chart Dipole ImpedanceS22 REVERSE REFLECTION
IMPEDANCECH 4 - S22
REFERENCE PLANE
0.0000 mmMARKER 1
2.450046 GHz
63.373 Ω
-13.350 j Ω MARKER TO MAX
▶ MARKER TO MIN2 2.352262 GHz
47.808 Ω
3.861 j Ω MARKER READOUT
FUNCTIONS

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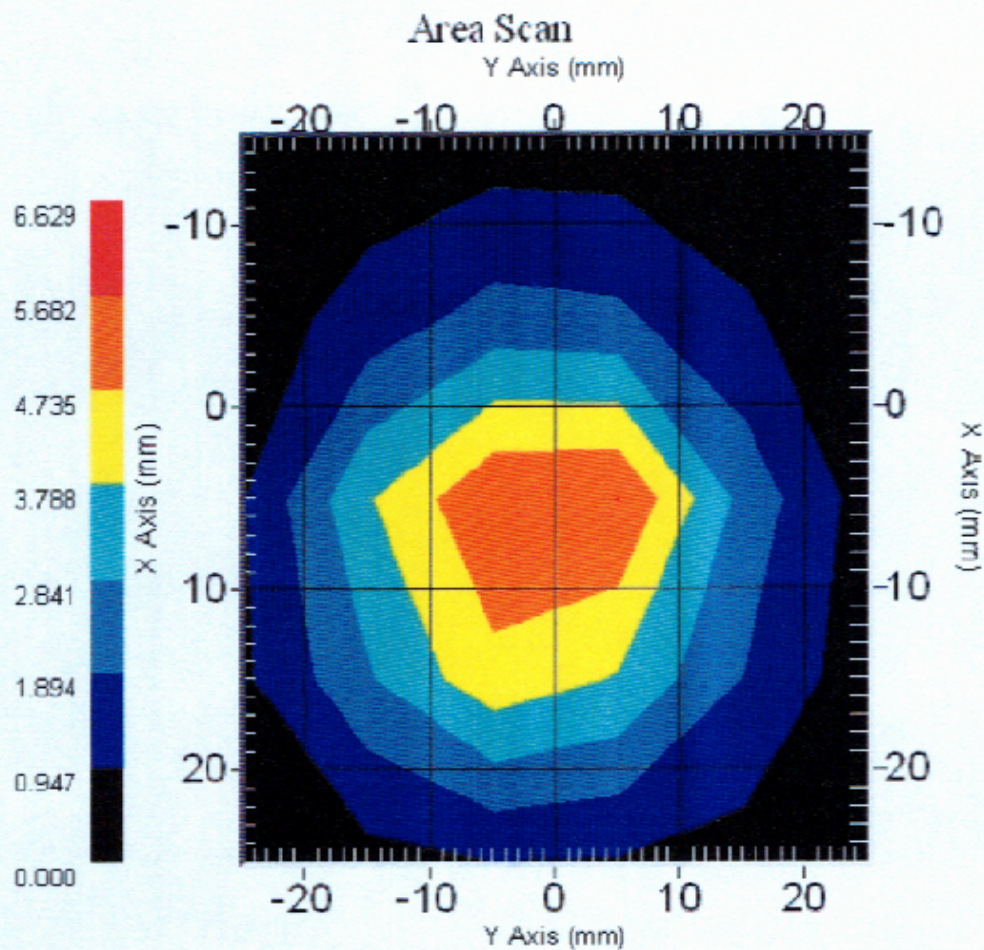
8

NCL Calibration Laboratories

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System Validation Results Using the Electrically Calibrated Dipole

Head Tissue Frequency	1 Gram	10 Gram	Peak Above Feed Point
2450 MHz	5.31	2.44	10.18



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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

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APPENDIX D - TEST SYSTEM VERIFICATIONS SCANS**Liquid Measurement Result**

Testing was performed by Dan Corona on 2007-10-16.

Simulant	Freq [MHz]	Parameters	Liquid Temp [°C]	Target Value	Measured Value	Deviation [%]	Limits [%]
Head	2450	ϵ_r	22	39.2	40.2	2.55	±5
		σ	22	1.80	1.83	1.67	±5
		1g SAR	22	52.4	49.26	-5.99	±10

Test Laboratory: Bay Area Compliance Laboratories Corp. (BACL)**System Performance Check for Head****EUT: Dipole Antenna 2450 MHz; Type: D2450-S-1; Serial Number: BCL-141**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.74, 4.74, 4.74); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

System Performance Check 1W / Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 63.4 mW/g

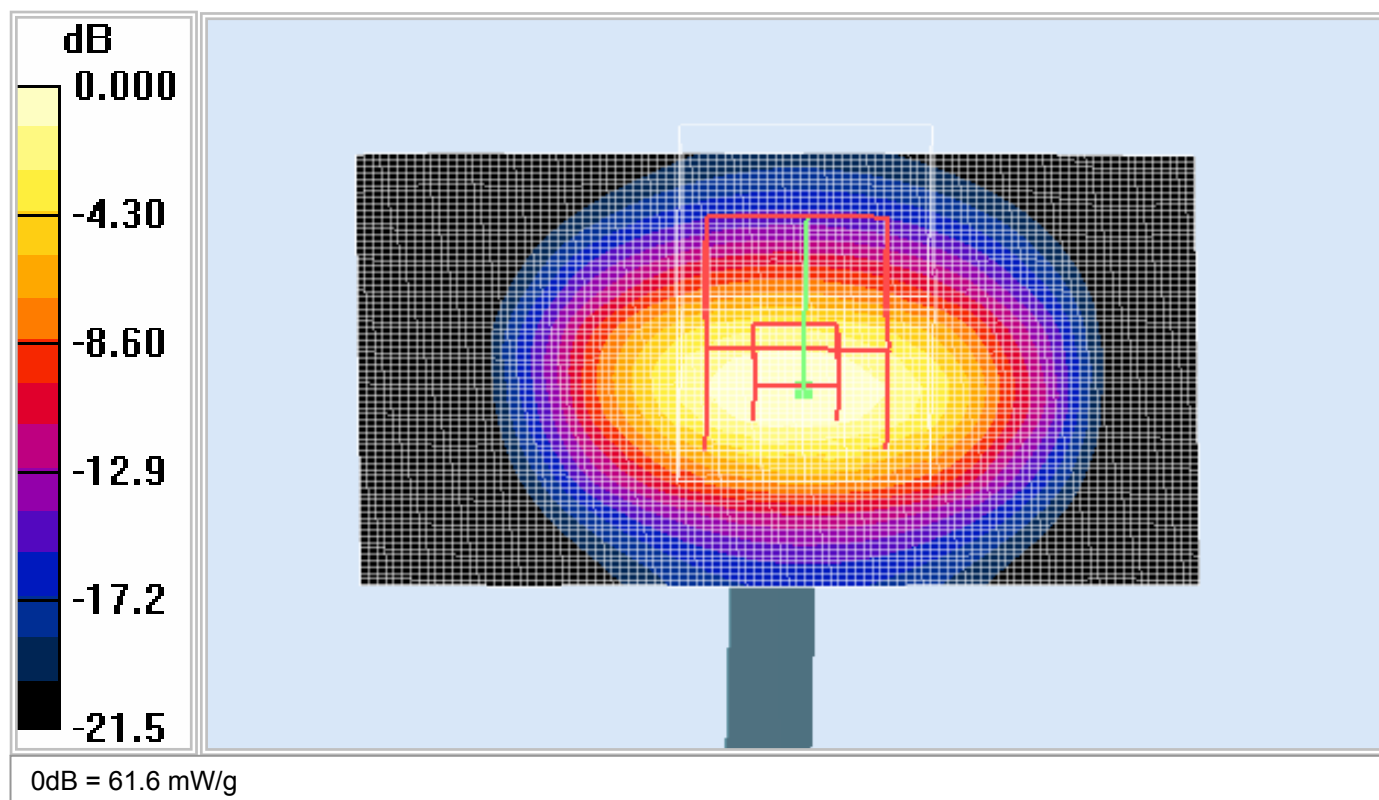
System Performance Check 1W / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 140.9 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 98.6 W/kg

SAR(1 g) = 49.26 mW/g; SAR(10 g) = 23.05 mW/g

Maximum value of SAR (measured) = 61.6 mW/g

**System Validation for Head Tissue**

APPENDIX E - EUT SCANS

EUT body position back touching to the flat phantom (2412 MHz - Low Channel)

Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338

Simultaneous Transmit with the Co-located Bluetooth

Communication System: CW.; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF (4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Back touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.247 mW/g

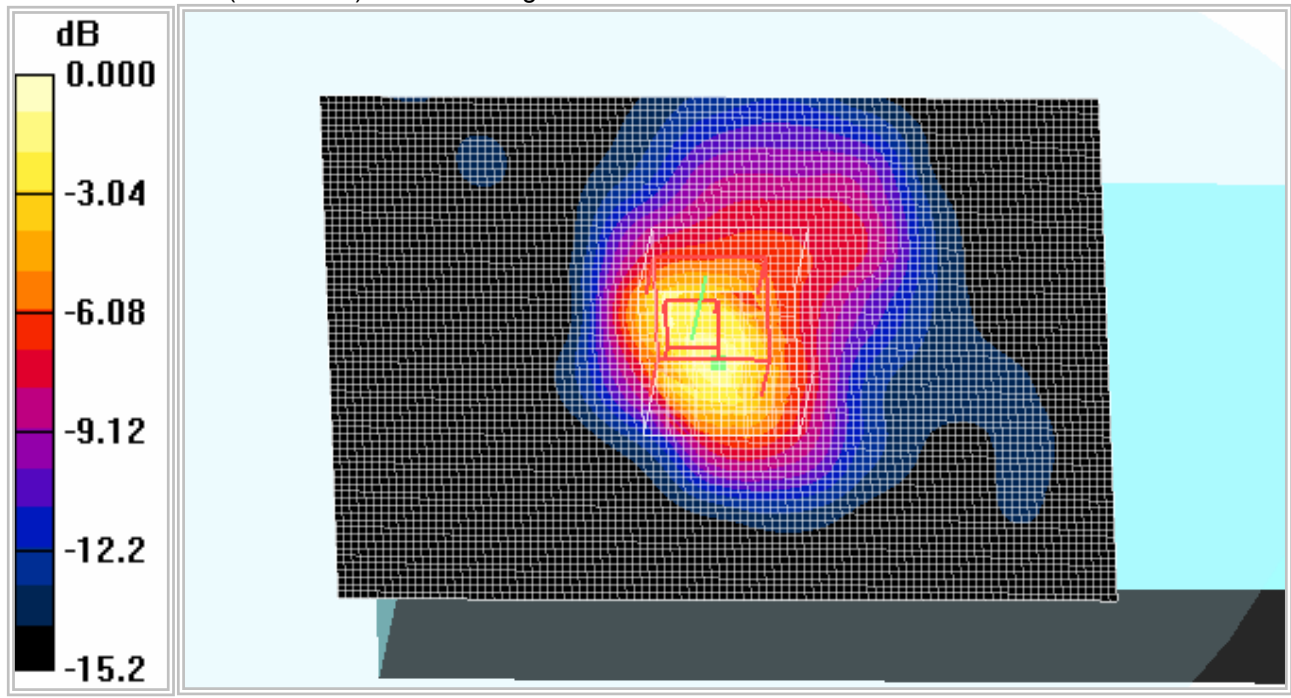
Body Position EUT Back touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.117 mW/g

Maximum value of SAR (measured) = 0.323 mW/g



0dB = 0.323 mW/g

Plot 1#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**EUT body position back touching to the flat phantom (2437 MHz - Middle Channel)****Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338****Simultaneous Transmit with the Co-located Bluetooth**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Back touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.344 mW/g

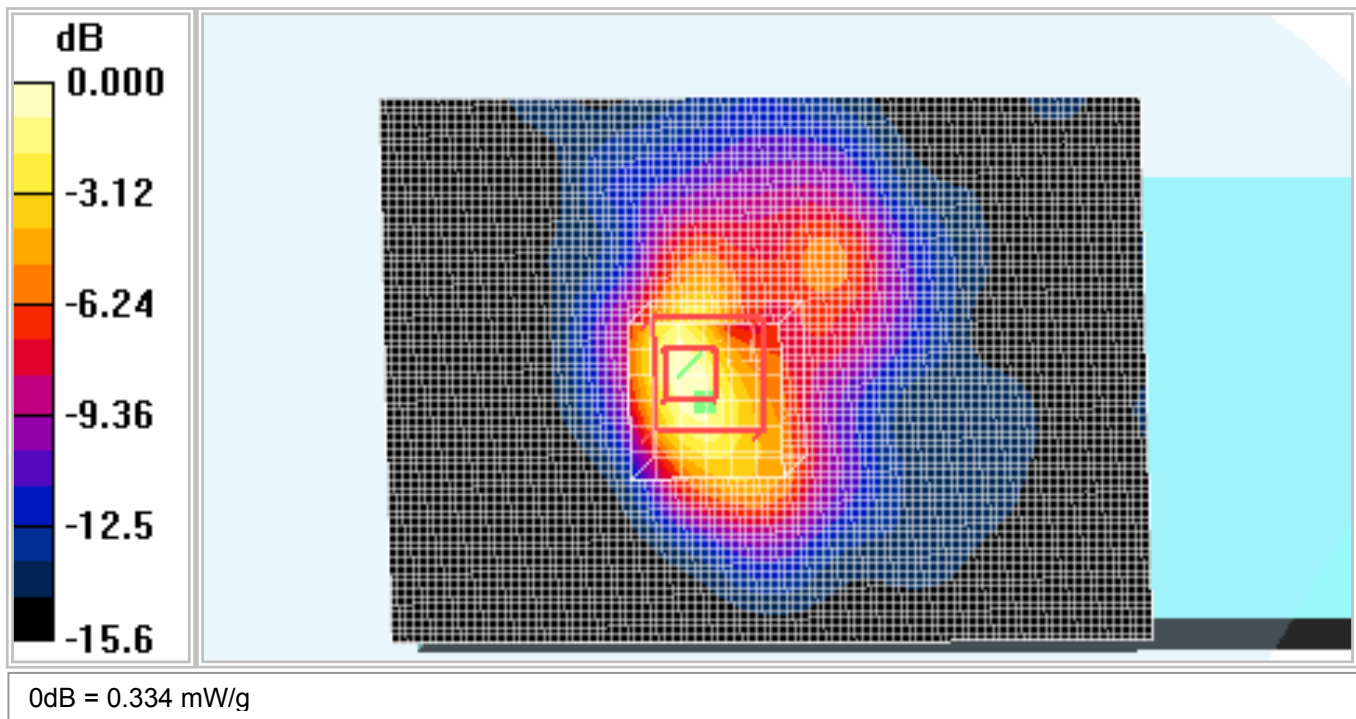
Body Position EUT Back touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.334 mW/g

**Plot 2#**

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**EUT body position back touching to the flat phantom (2462 MHz - High Channel)****Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338****Simultaneous Transmit with the Co-located Bluetooth**

Communication System: CW; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Back touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.656 mW/g

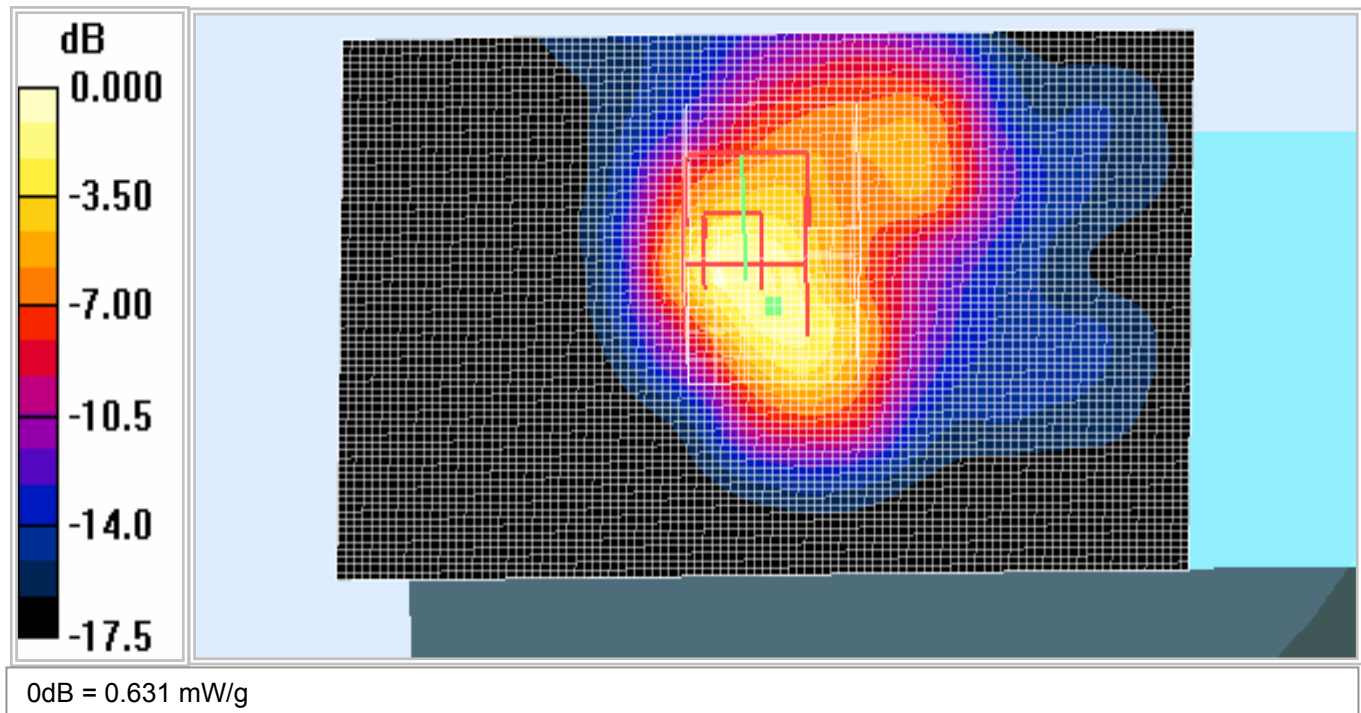
Body Position EUT Back touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 0.910 W/kg

SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.631 mW/g

**Plot 3#**

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

EUT body position front touching to the flat phantom (2412 MHz - Low Channel)

Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338

Simultaneous Transmit with the Co-located Bluetooth

Communication System: CW; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Front touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

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

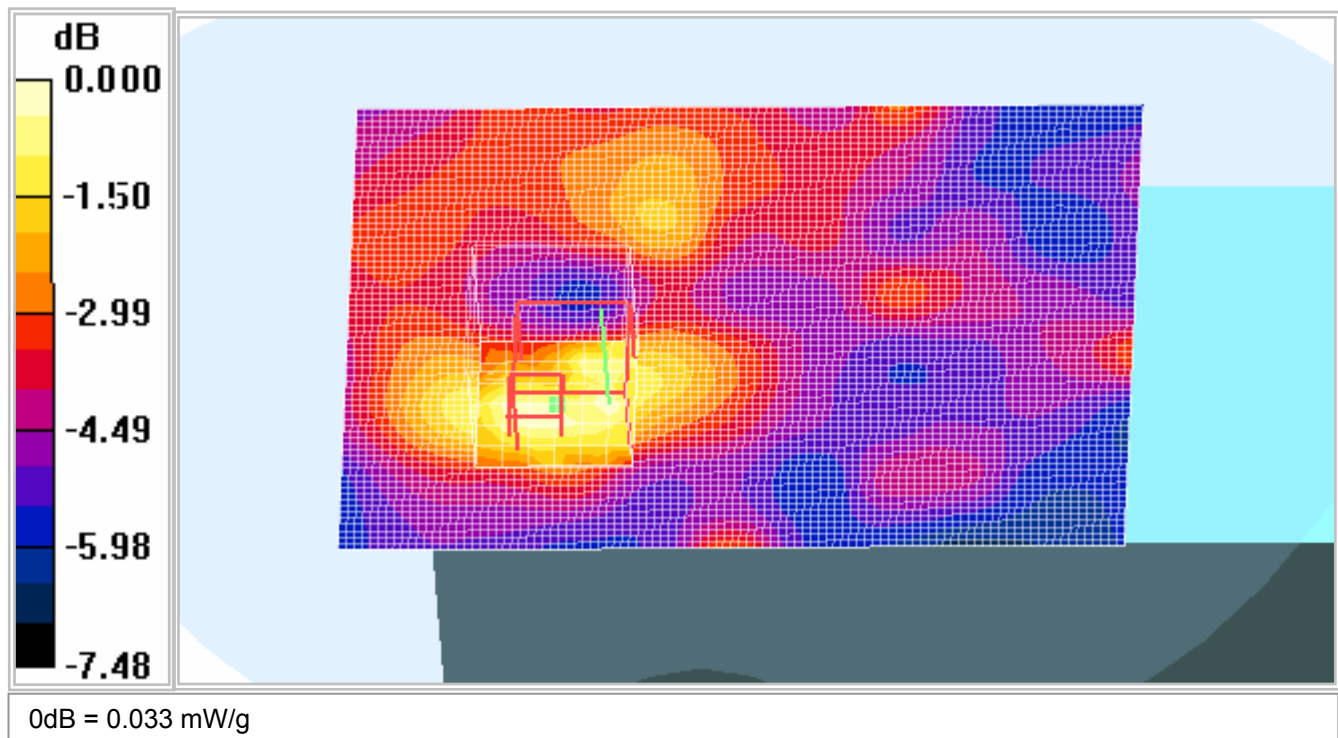
Body Position EUT Front touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.58 V/m; Power Drift = -0.309 dB

Peak SAR (extrapolated) = 0.037 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.024 mW/g

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



Plot 4#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

EUT body position front touching to the flat phantom (2437 MHz - Middle Channel)

Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338

Simultaneous Transmit with the Co-located Bluetooth

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Body Position EUT Front touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.027 mW/g

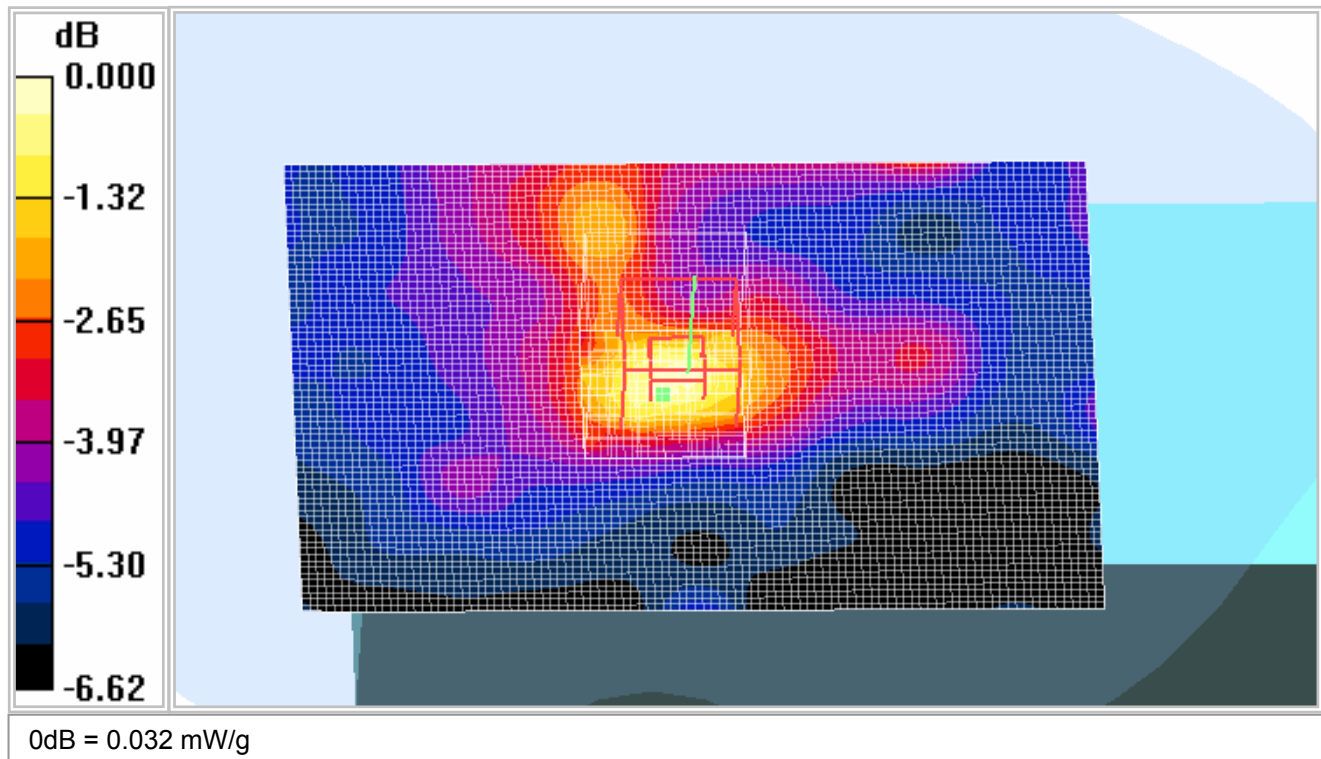
Body Position EUT Front touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.54 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.032 mW/g



Plot 5#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**EUT body position front touching to the flat phantom (2462 MHz - High Channel)****Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338****Simultaneous Transmit with the Co-located Bluetooth**

Communication System: Grayhill Inc.; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Front touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.031 mW/g

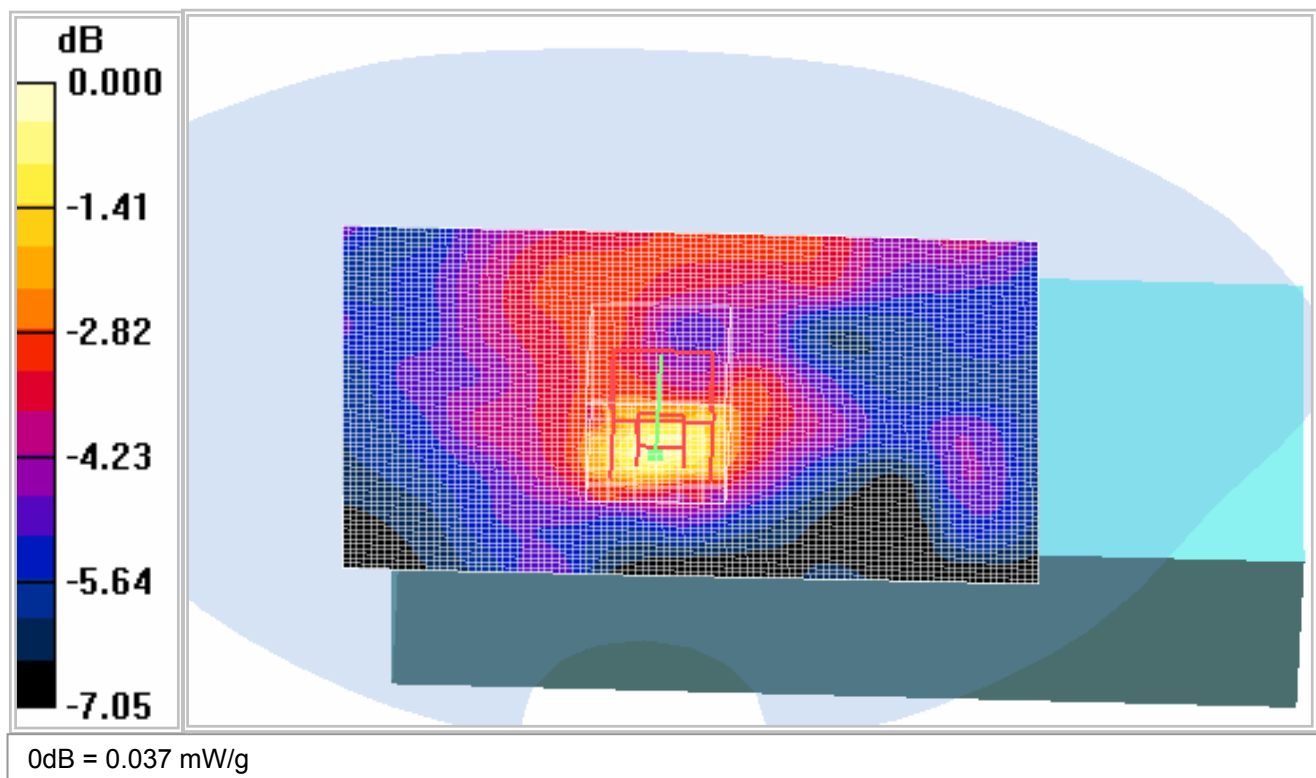
Body Position EUT Front touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.09 V/m; Power Drift = -0.523 dB

Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.037 mW/g

**Plot 6#**

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**EUT body position Side touching to the flat phantom (2412 MHz - Low Channel)****Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338
Simultaneous Transmit with the Co-located Bluetooth**

Communication System: CW; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Side touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.059 mW/g

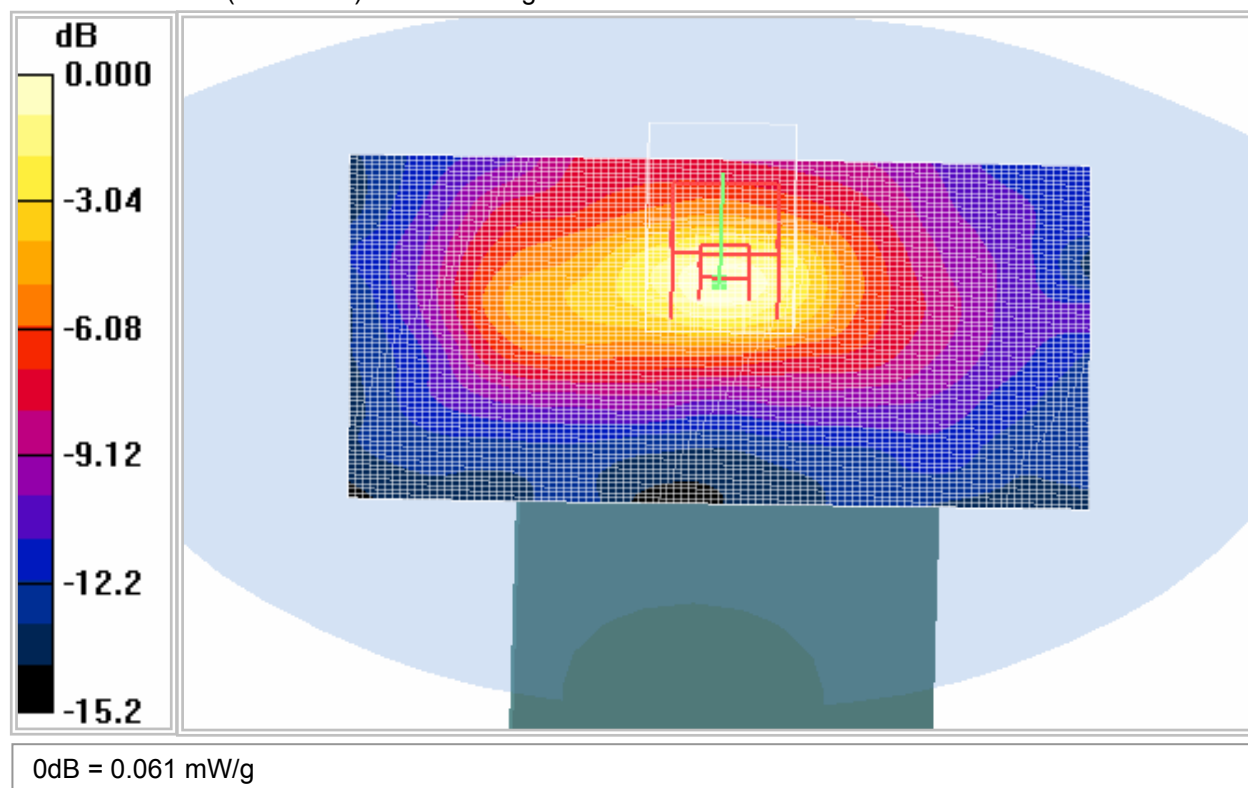
Body Position EUT Side to Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.55 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.061 mW/g

**Plot 7#**

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**EUT body position Side touching to the flat phantom (2437 MHz - Middle Channel)**

Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338
Simultaneous Transmit with the Co-located Bluetooth

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Body Position EUT Side touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.089 mW/g

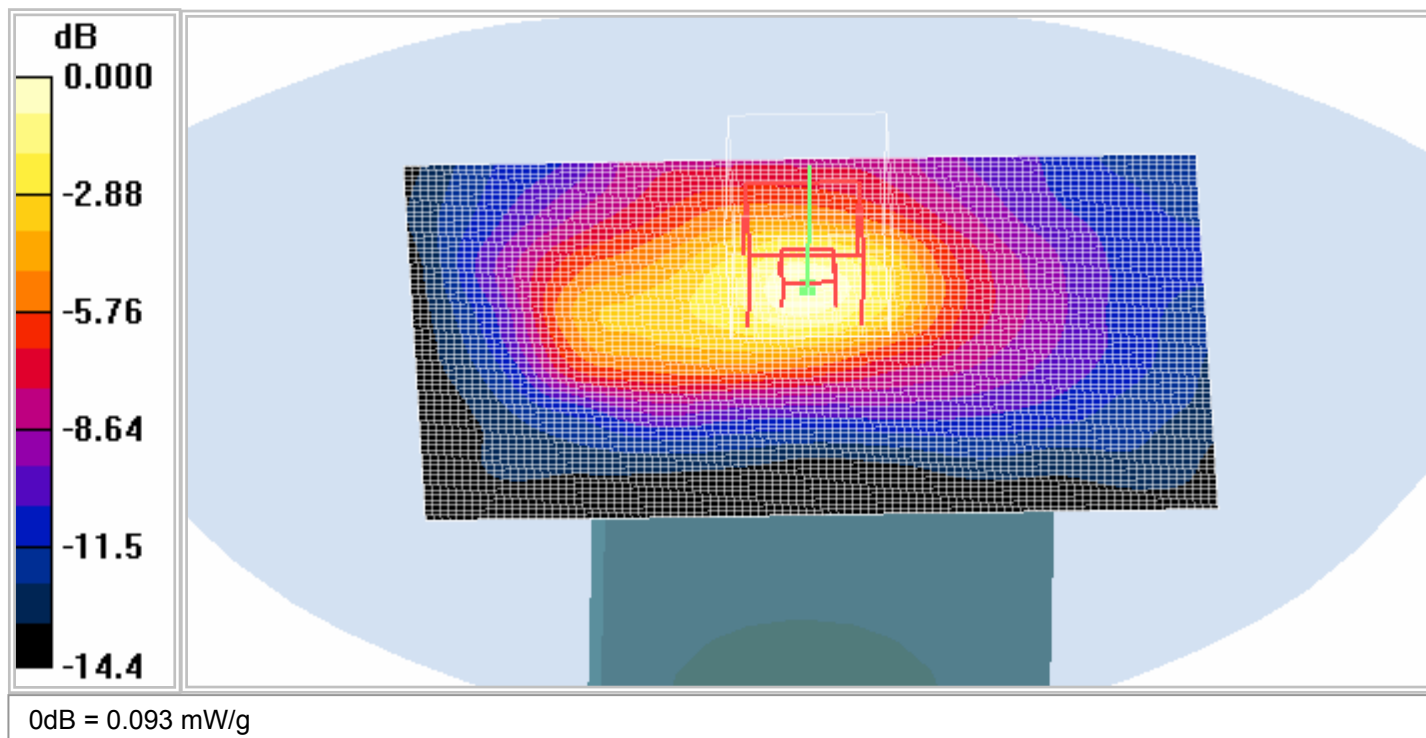
Body Position EUT Side touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.78 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.045 mW/g

Maximum value of SAR (measured) = 0.093 mW/g

**Plot 8#**

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**EUT body position Side touching to the flat phantom (2462 MHz - High Channel)**

Gray Hill Inc.; Type: PDA with Wi-Fi Model Number: M1YY1023-3; Serial: B1338
Simultaneous Transmit with the Co-located Bluetooth

Communication System: CW; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.11, 4.11, 4.11); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Body Position EUT Side touching to the Flat Phantom / Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.070 mW/g

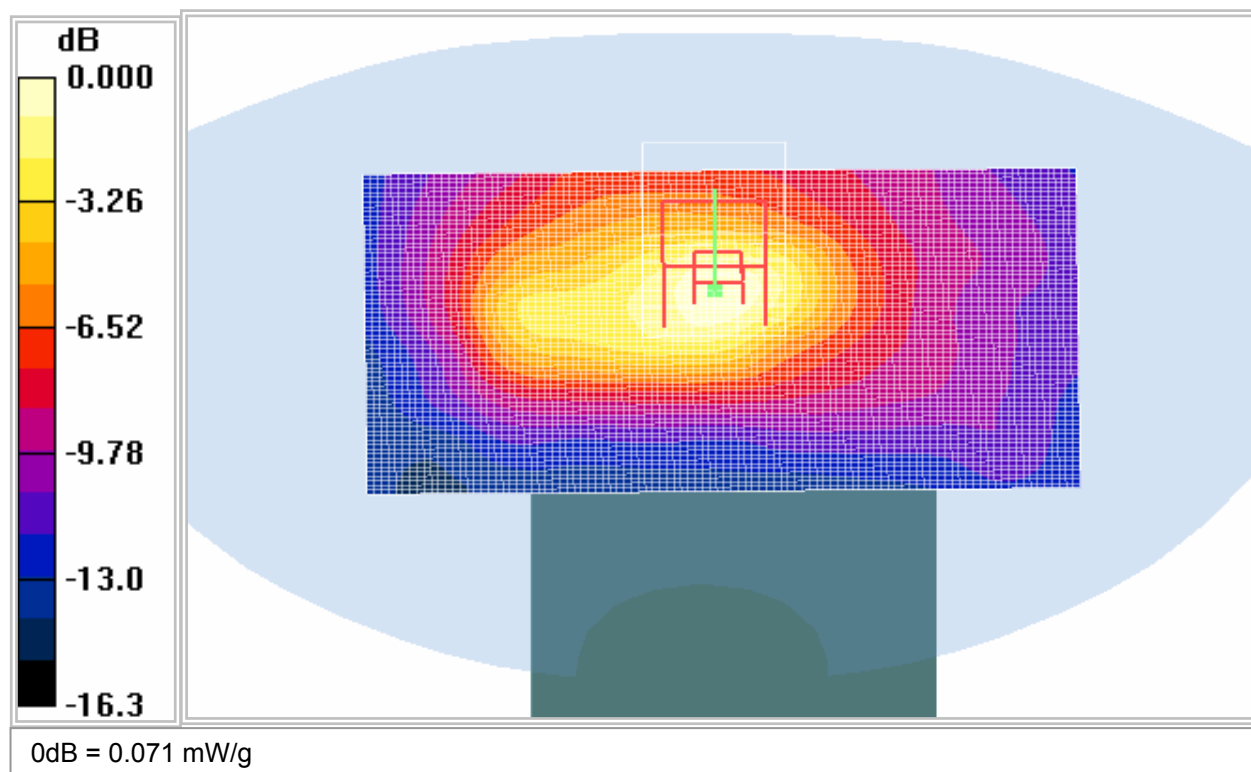
Body Position EUT Side touching to the Flat Phantom / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.99 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.071 mW/g



Plot 9#

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

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

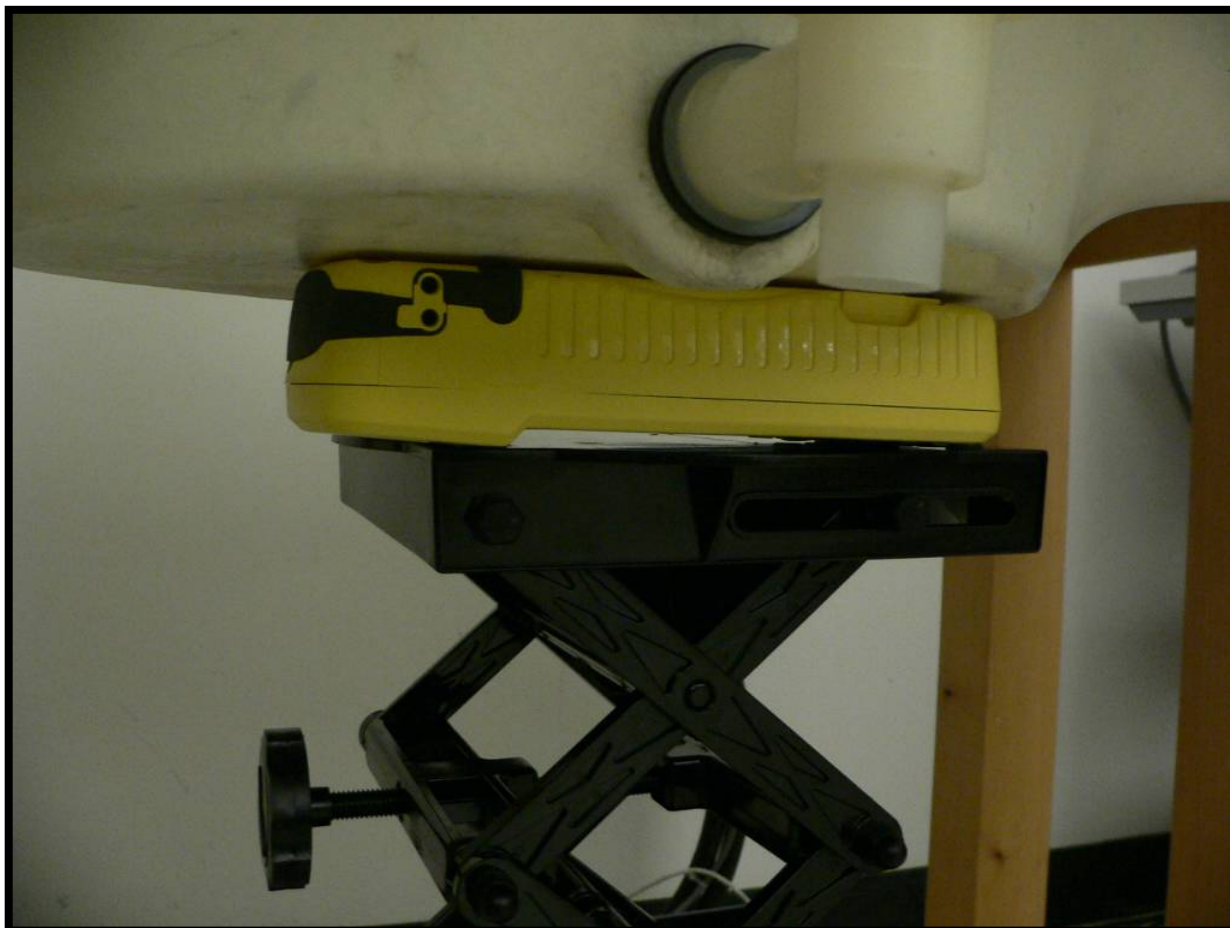
Test Results

802.11b (2.4GHz):

Channel No.	Frequency (MHz)	Measured Output Power	
		(dBm)	(mW)
1	2412	14.67	29.31
6	2437	15.26	33.56
11	2462	13.98	25.00

APPENDIX G – EUT TEST POSITION PHOTOS

EUT Back touching to the flat phantom



EUT Front touching to the flat phantom



EUT Side touching to the flat phantom



APPENDIX H– EUT PHOTO

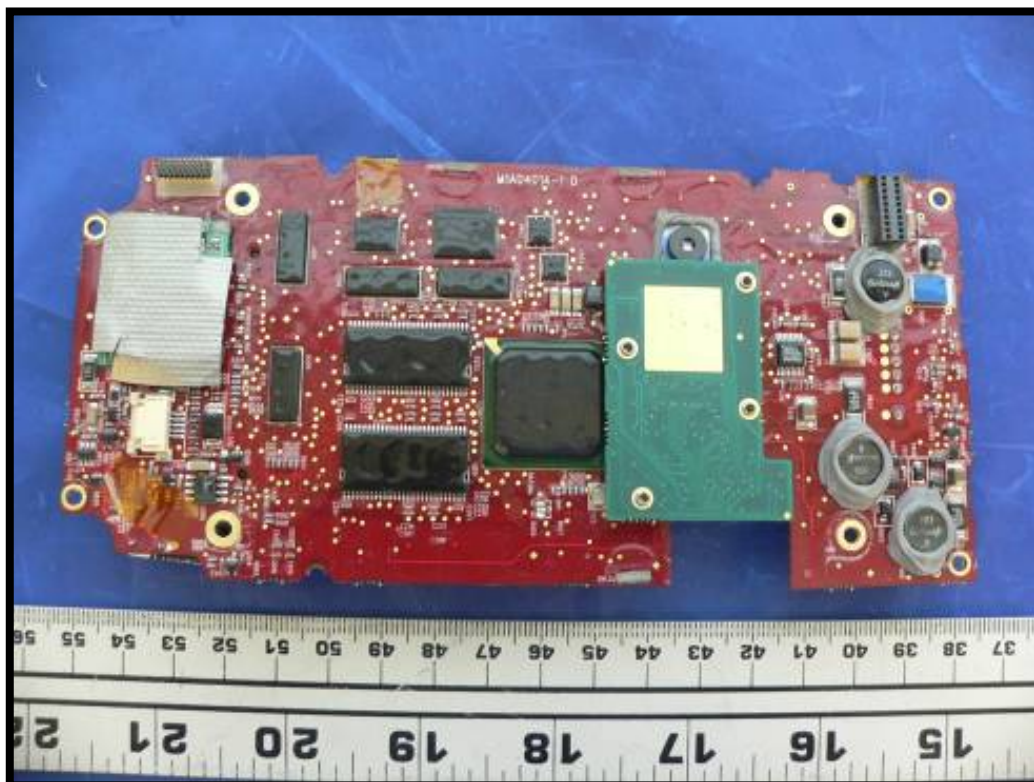
EUT – Front View

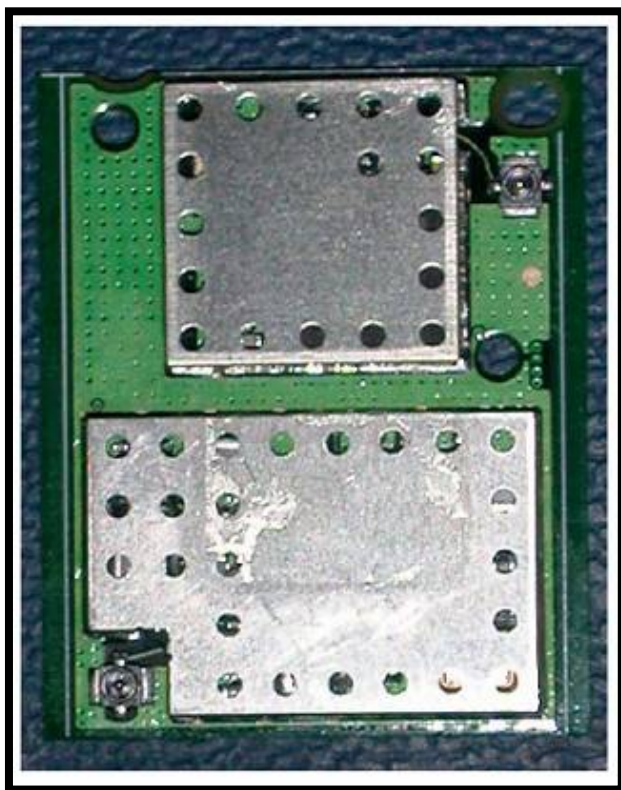
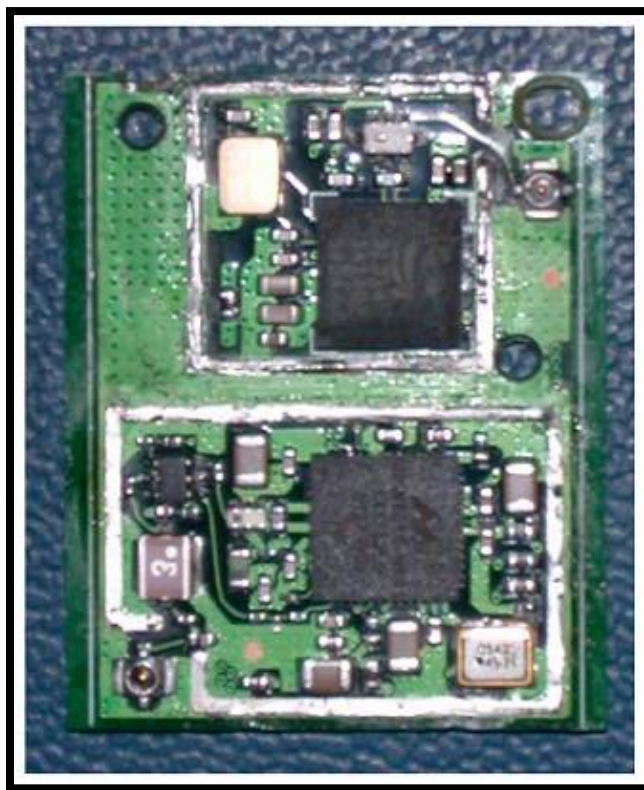
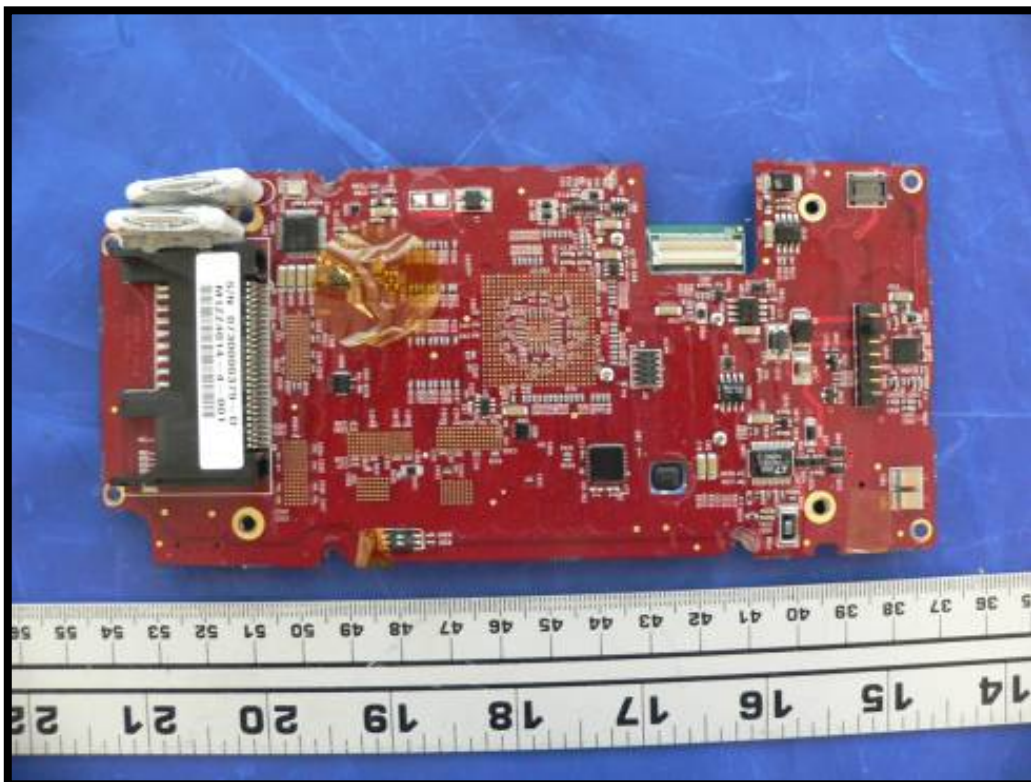


EUT – Bottom Side View



EUT – Right Side View (GPS port with cover)**EUT – Read Side View (AC/DC port without cover)**

EUT – Cover off 1**EUT – Main PCBA Component View 1**

EUT – Wi-Fi Transmitter Board**Shields ON****Shields OFF****EUT – Main PCBA Solder View 4**

The image shows the interior of a yellow plastic enclosure. A small green PCB is mounted at the top. Below it, a circular battery is connected to a small yellow component. A red and black wire is connected to the yellow component. The enclosure has several mounting holes and a small orange component at the bottom.

EUT – AC/DC Adaptor view

APPENDIX I - INFORMATIVE REFERENCES

- [1] Federal Communications Commission, "Report and order: Guidelines for evaluating the environmental effects of radiofrequency radiation", Tech. Rep. FCC 96-326, FCC, Washington, D.C. 20554, 1996.
- [2] David L. Means Kwok Chan, Robert F. Cleveland, "Evaluating compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields", Tech. Rep., Federal Communication Commission, Office of Engineering & Technology, Washington, DC, 1997.
- [3] Thomas Schmid, Oliver Egger, and Niels Kuster, "Automated E-field scanning system for dosimetric assessments", IEEE Transactions on Microwave Theory and Techniques, vol. 44, pp. 105-113, Jan. 1996.
- [4] Niels Kuster, Ralph Kastle, and Thomas Schmid, "Dosimetric evaluation of mobile communications equipment with known precision", IEEE Transactions on Communications, vol. E80-B, no. 5, pp. 645-652, May 1997.
- [5] CENELEC, "Considerations for evaluating of human exposure to electromagnetic fields (EMFs) from mobile telecommunication equipment (MTE) in the frequency range 30MHz - 6GHz", Tech. Rep., CENELEC, European Committee for Electrotechnical Standardization, Brussels, 1997.
- [6] ANSI, ANSI/IEEE C95.1-1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz, The Institute of Electrical and Electronics Engineers, Inc., New York, NY 10017, 1992.
- [7] Katja Pokovic, Thomas Schmid, and Niels Kuster, "Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies", in ICECOM '97, Dubrovnik, October 15-17, 1997, pp. 120-24.
- [8] Katja Pokovic, Thomas Schmid, and Niels Kuster, "E-field probe with improved isotropy in brain simulating liquids", in Proceedings of the ELMAR, Zadar, Croatia, 23-25 June, 1996, pp. 172-175.
- [9] Volker Hombach, Klaus Meier, Michael Burkhardt, Eberhard Kuhn, and Niels Kuster, "The dependence of EM energy absorption upon human head modeling at 900 MHz", IEEE Transactions on Microwave Theory and Techniques, vol. 44, no. 10, pp. 1865-1873, Oct. 1996.
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