

Test Laboratory: Compliance Certification Services

## EUT Setup Configuration 1\_WLAN Mini PCI Card # 1: BCM94306MPSG

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

**Program Name: EUT Setup Configuration 1**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1.11

Medium: Muscle 2450 MHz ( $\sigma = 1.9938 \text{ mho/m}$ ,  $\epsilon_r = 52.94$ ,  $\rho = 1000 \text{ kg/m}^3$ )

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Middle Channel/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Middle Channel/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.075 mW/g

Reference Value = 9.49 V/m

Power Drift = -0.19 dB

Maximum value of SAR = 0.163 mW/g

**Middle Channel/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

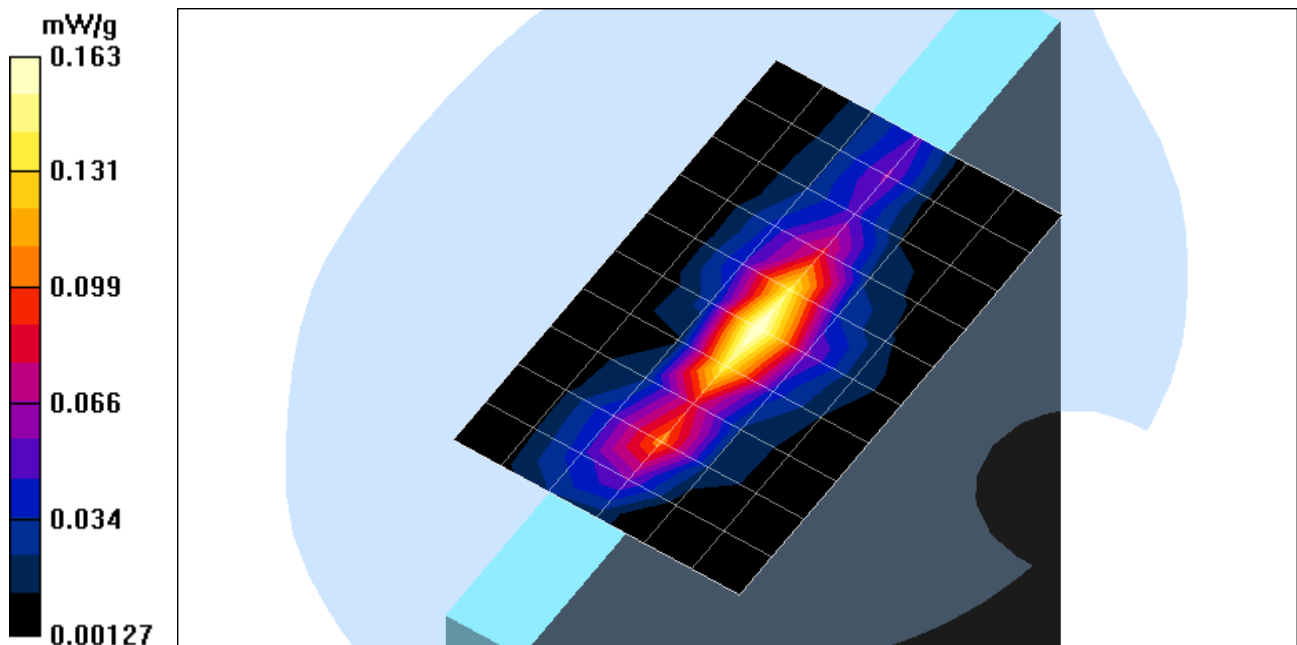
Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.047 mW/g

Reference Value = 9.49 V/m

Power Drift = -0.19 dB

Maximum value of SAR = 0.111 mW/g



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## EUT Setup Configuration 1\_WLAN Mini PCI Card # 1: BCM94306MPSG

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Middle Channel/Z Scan (1x1x51):** Measurement grid: dx=20mm, dy=20mm, dz=2mm

Reference Value = 9.49 V/m

Power Drift = -0.19 dB

Maximum value of SAR = 0.112 mW/g



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## EUT Setup Configuration 1\_Co-located with WLAN Mini PCI Card # 1: BCM94306MPSG

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

**Program Name: EUT Setup Configuration 1**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1.11

Medium: Muscle 2450 MHz ( $\sigma = 1.9938 \text{ mho/m}$ ,  $\epsilon_r = 52.94$ ,  $\rho = 1000 \text{ kg/m}^3$ )

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Co-location 2/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Co-location 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.077 mW/g

Reference Value = 8.81 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.167 mW/g

**Co-location 2/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

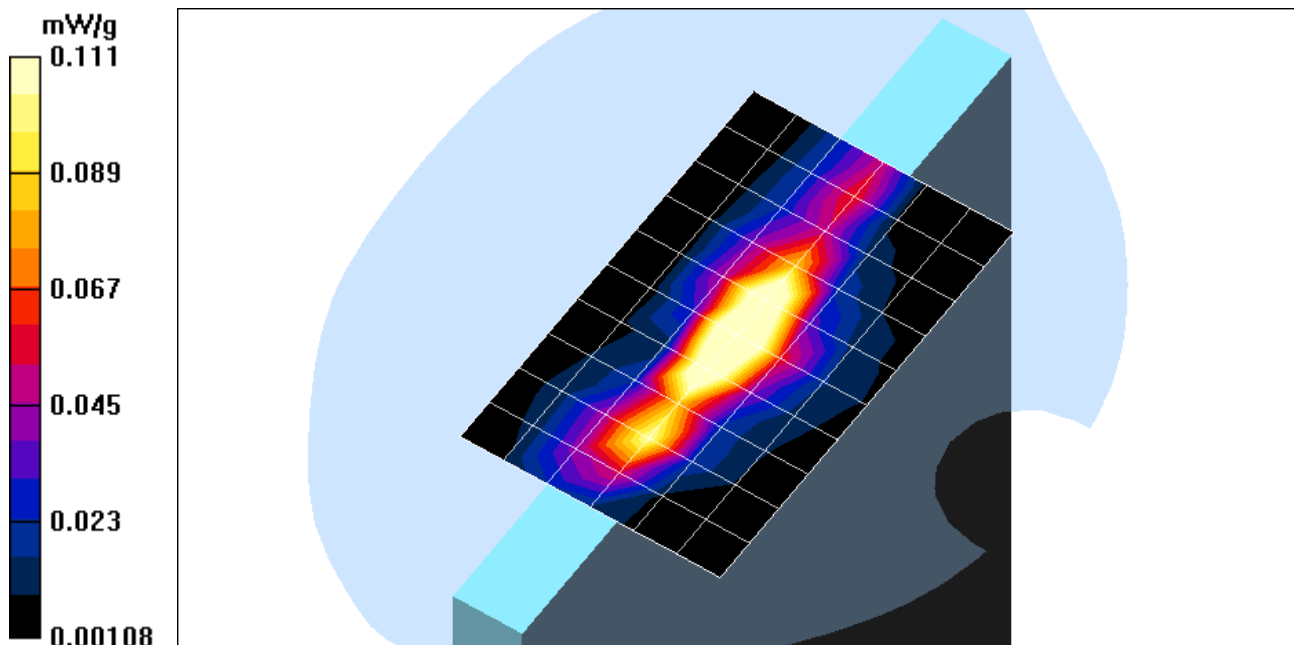
Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.047 mW/g

Reference Value = 8.81 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.111 mW/g



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## EUT Setup Configuration 1\_Co-located with WLAN Mini PCI Card # 1: BCM94306MP5G

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

DASY4 Configuration:

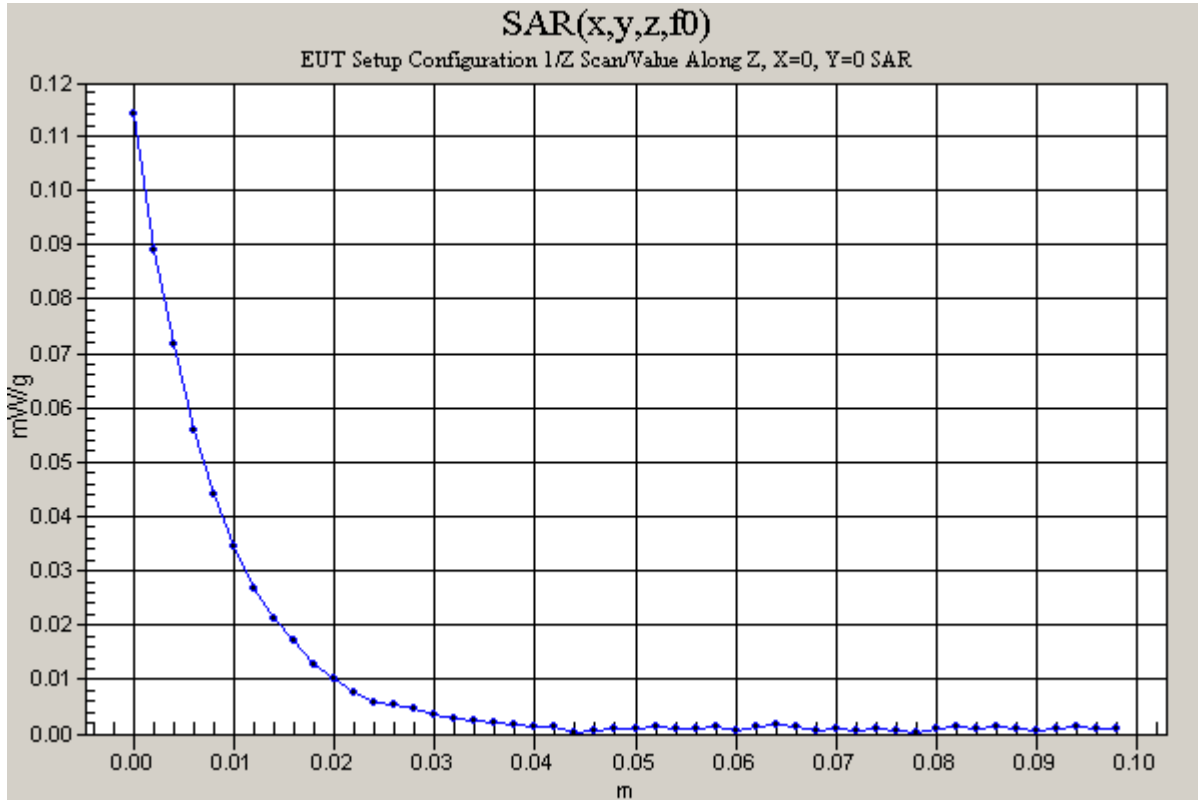
- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Co-location 2/Z Scan (1x1x51):** Measurement grid: dx=20mm, dy=20mm, dz=2mm

Reference Value = 8.81 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.114 mW/g



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## EUT Setup Configuration 1\_WLAN Mini PCI Card #2: BCM94306MP

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

**Program Name: EUT Setup Configuration 1**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23 deg C**

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1.11

Medium: Muscle 2450 MHz ( $\sigma = 1.945$  mho/m,  $\epsilon_r = 52.5767$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Middle Channel/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.21 V/m

Power Drift = 0.008 dB

Maximum value of SAR = 0.169 mW/g

**Middle Channel/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

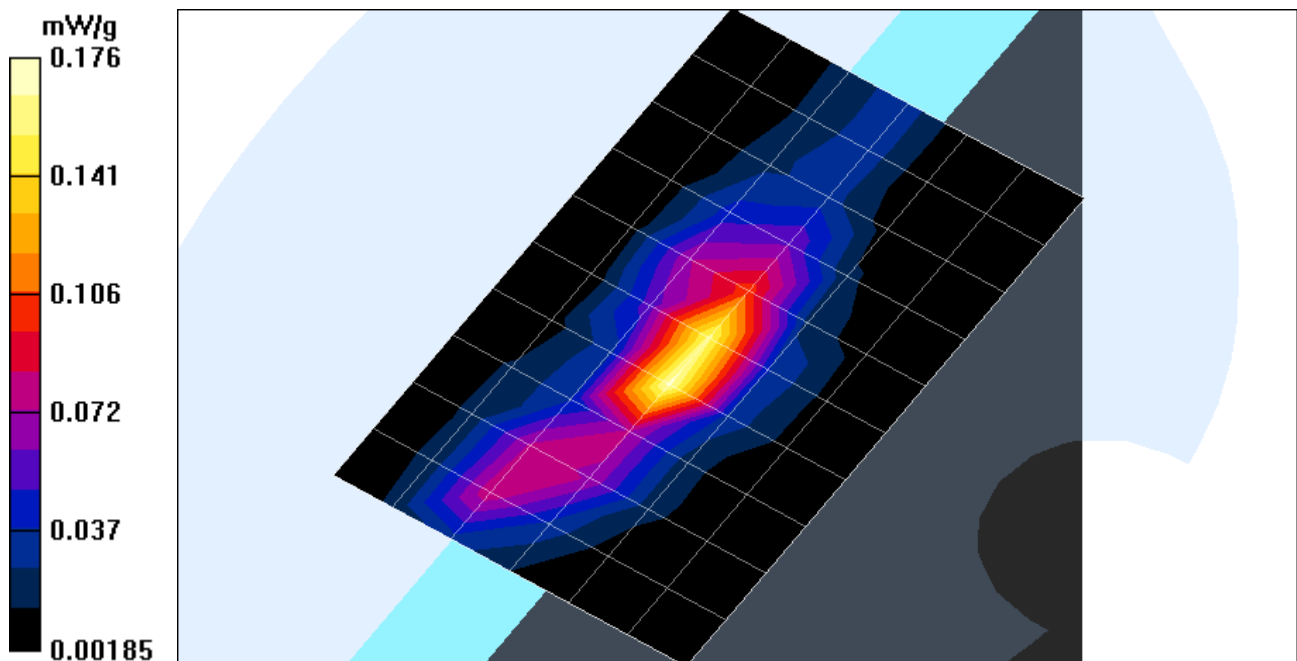
Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.076 mW/g

Reference Value = 9.21 V/m

Power Drift = 0.008 dB

Maximum value of SAR = 0.176 mW/g



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## EUT Setup Configuration 1\_WLAN Mini PCI Card #2: BCM94306MP

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

DASY4 Configuration:

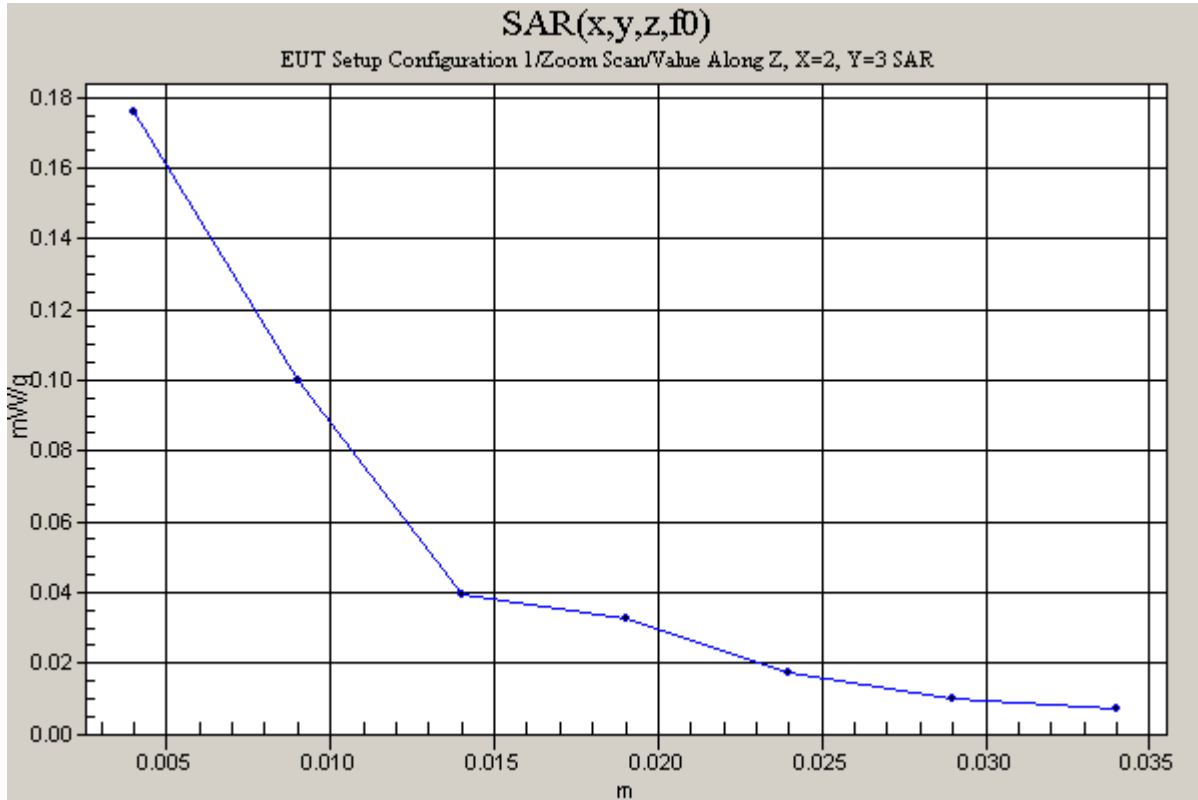
- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Middle Channel/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.21 V/m

Power Drift = 0.008 dB

Maximum value of SAR = 0.176 mW/g



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## EUT Setup Configuration 1\_Co-located with WLAN Mini PCI Card #2: BCM94306MP

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

**Program Name: EUT Setup Configuration 1**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23 deg C**

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1.11

Medium: Muscle 2450 MHz ( $\sigma = 1.945$  mho/m,  $\epsilon_r = 52.5767$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Co-location/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.47 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.178 mW/g

**Co-location/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

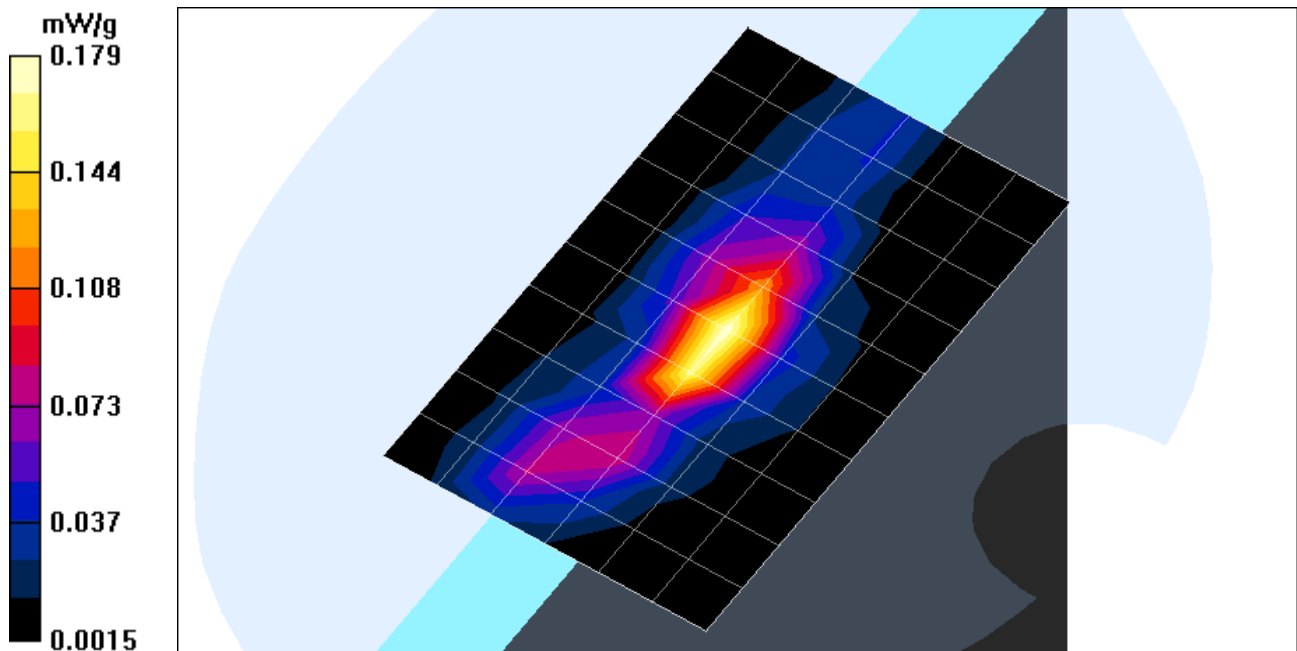
Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.080 mW/g

Reference Value = 8.47 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.179 mW/g



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## EUT Setup Configuration 1\_Co-located with WLAN Mini PCI Card #2: BCM94306MP

**DUT: Broadcom; Type: BCM92035NMD; Serial: N/A**

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.1, 4.1, 4.1); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Co-location/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.47 V/m

Power Drift = 1 dB

Maximum value of SAR = 0.179 mW/g

