

Test Laboratory: Compliance Certification Services

### 1\_Host # 1\_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

Room Ambient Temperature: 23.5 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.33, 8.33, 8.33); Calibrated: 7/21/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 1; Type: SAM 1; Serial: 1185
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

#### WCDMA1900\_L-ch/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.386 mW/g

#### WCDMA1900\_L-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

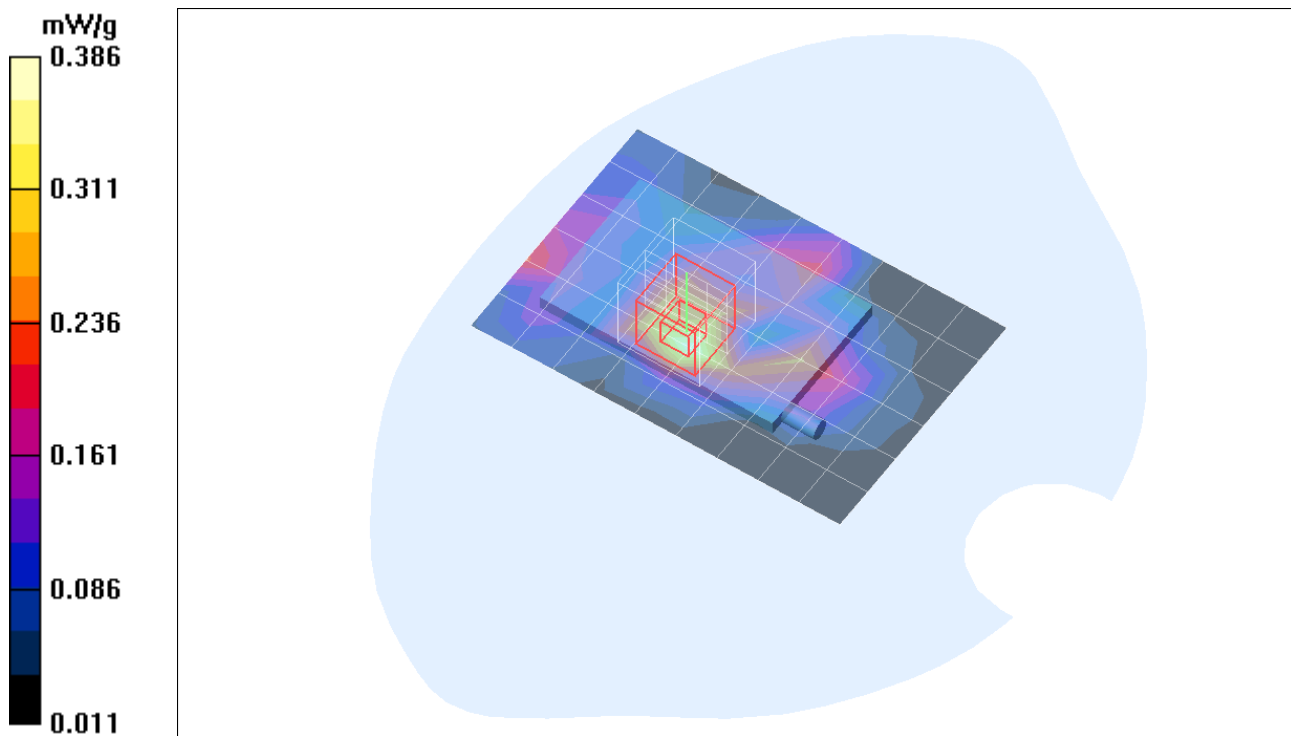
Reference Value = 10.5 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.628 W/kg

**SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.229 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.461 mW/g



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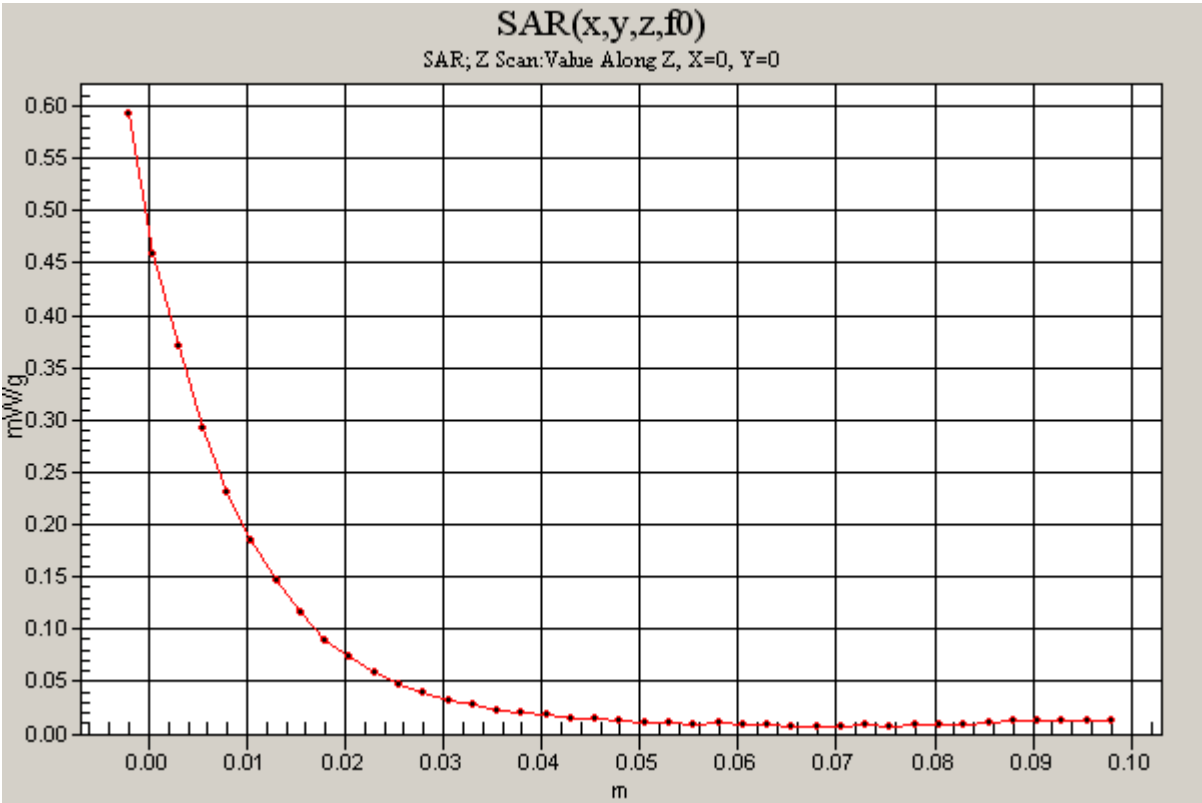
DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1

**WCDMA1900\_L-ch/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.593 mW/g



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### 1\_Host # 1\_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 51.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

Room Ambient Temperature: 23.5 deg. C; Liquid Temperature: 23.0 deg. C

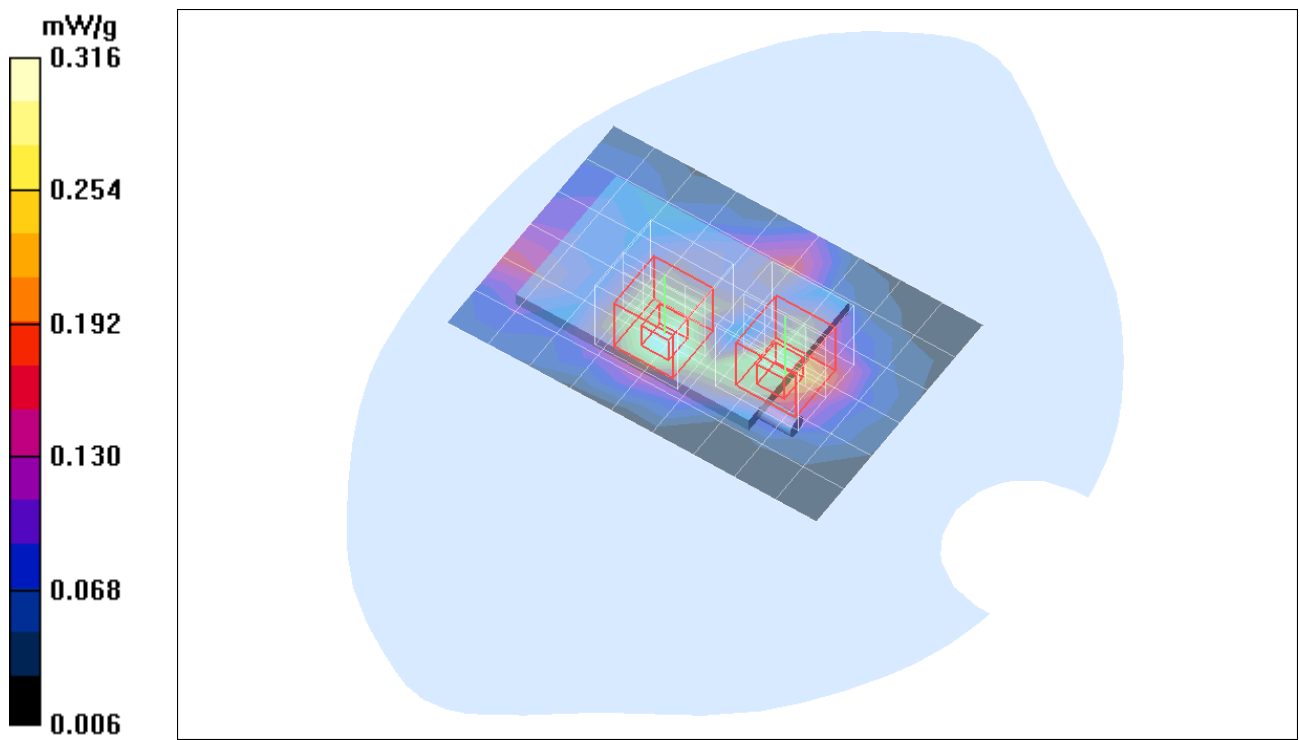
DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.33, 8.33, 8.33); Calibrated: 7/21/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 1; Type: SAM 1; Serial: 1185
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

**WCDMA1900\_M-ch/Area Scan (10x7x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.355 mW/g

**WCDMA1900\_M-ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 11.6 V/m; Power Drift = -0.116 dB  
Peak SAR (extrapolated) = 0.509 W/kg  
**SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.191 mW/g**  
Maximum value of SAR (measured) = 0.376 mW/g

**WCDMA1900\_M-ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 11.6 V/m; Power Drift = -0.116 dB  
Peak SAR (extrapolated) = 0.460 W/kg  
**SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.160 mW/g**  
Maximum value of SAR (measured) = 0.316 mW/g



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## 1\_Host # 1\_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.6$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.5 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.33, 8.33, 8.33); Calibrated: 7/21/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 1; Type: SAM 1; Serial: 1185
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

**WCDMA1900\_H-ch/Area Scan (10x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.316 mW/g

**WCDMA1900\_H-ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.453 W/kg

**SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.182 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.335 mW/g

**WCDMA1900\_H-ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

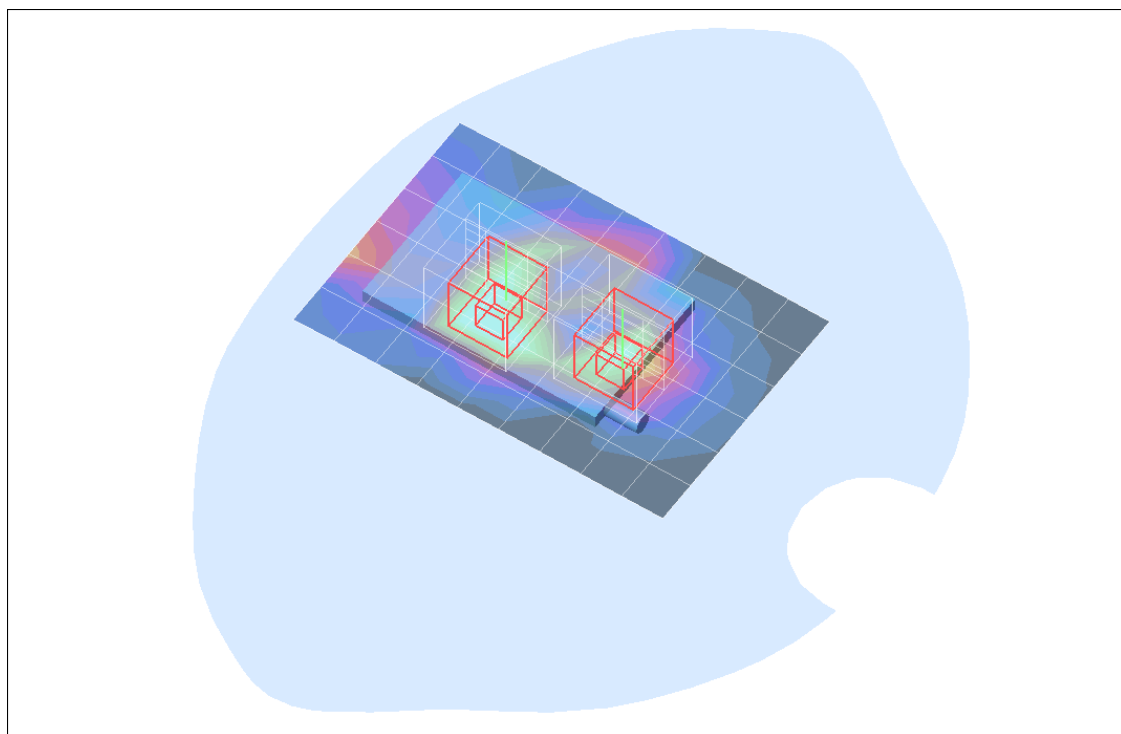
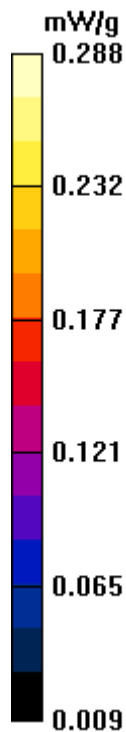
Reference Value = 12.3 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.423 W/kg

**SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.152 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.288 mW/g



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## 2\_Host # 2\_NEC VERSA SX

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.5 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.33, 8.33, 8.33); Calibrated: 7/21/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 1; Type: SAM 1; Serial: 1185
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

**WCDMA1900\_M-ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.173 mW/g

**WCDMA1900\_M-ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.02 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.331 W/kg

**SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.101 mW/g**

Maximum value of SAR (measured) = 0.216 mW/g

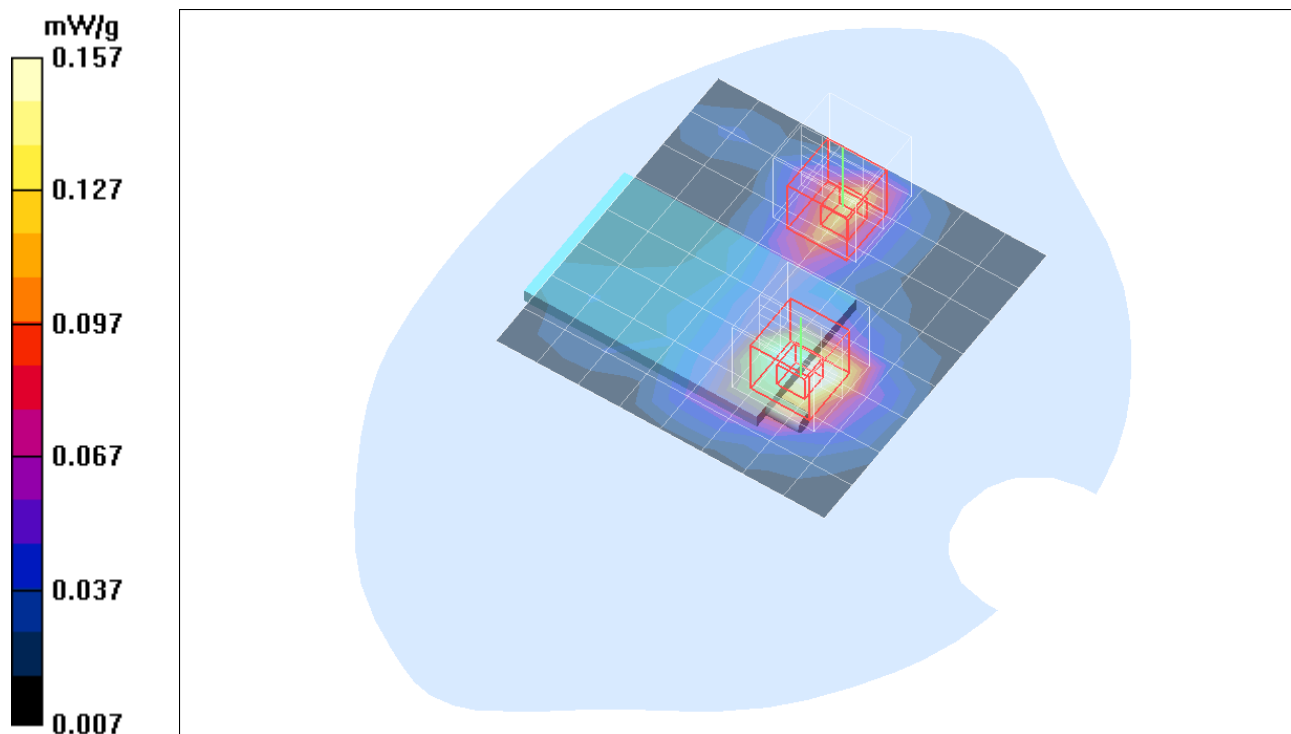
**WCDMA1900\_M-ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.02 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.254 W/kg

**SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.076 mW/g**

Maximum value of SAR (measured) = 0.157 mW/g



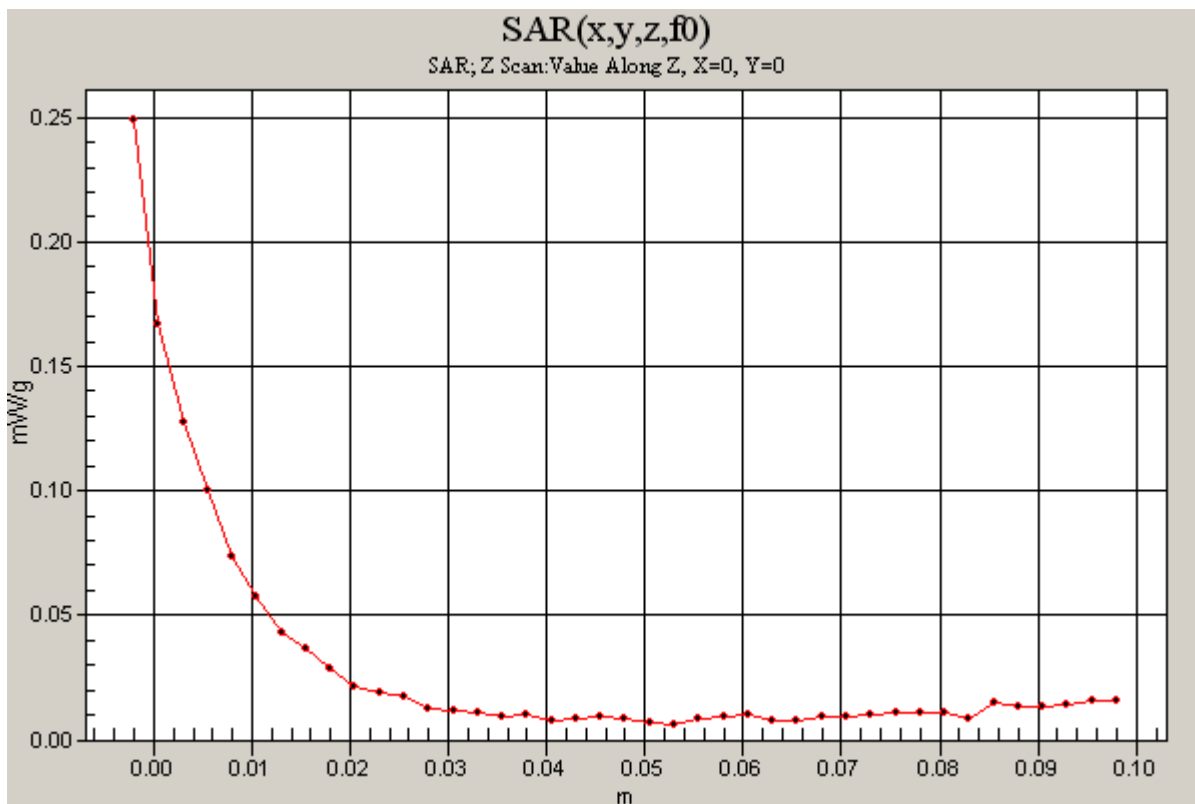
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## 2\_Host # 2\_NEC VERSA SX

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

**WCDMA1900\_M-ch/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
Maximum value of SAR (measured) = 0.249 mW/g



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### 3\_Host # 3\_Compacq ARMADA E500

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

Room Ambient Temperature: 23.5 deg. C; Liquid Temperature: 23.0 deg. C

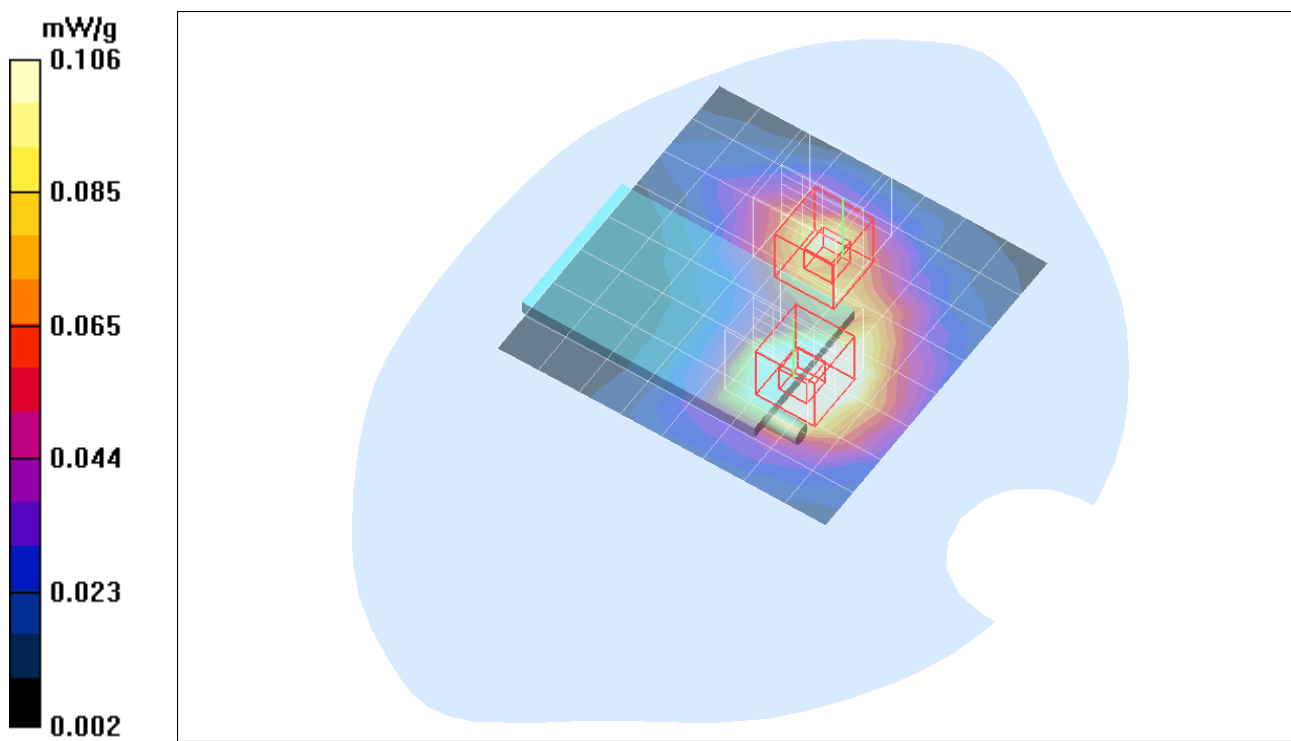
DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.33, 8.33, 8.33); Calibrated: 7/21/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 1; Type: SAM 1; Serial: 1185
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

**WCDMA1900\_M-ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.151 mW/g

**WCDMA1900\_M-ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 7.71 V/m; Power Drift = -0.105 dB  
Peak SAR (extrapolated) = 0.275 W/kg  
**SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.097 mW/g**  
Maximum value of SAR (measured) = 0.185 mW/g

**WCDMA1900\_M-ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 7.71 V/m; Power Drift = -0.105 dB  
Peak SAR (extrapolated) = 0.154 W/kg  
**SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.058 mW/g**  
Maximum value of SAR (measured) = 0.106 mW/g



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### 3\_Host # 3\_Compq ARMADA E500

DUT: Sierra Wireless; Type: AirCard 860; Serial: X1720158064E2

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

**WCDMA1900\_M-ch/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
Maximum value of SAR (measured) = 0.274 mW/g

