

Test Laboratory: Compliance Certification Services

1_Host # 1_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

GSM1900 2Slot_L-ch 2/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.457 mW/g

GSM1900 2Slot_L-ch 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.5 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.689 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.264 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.513 mW/g

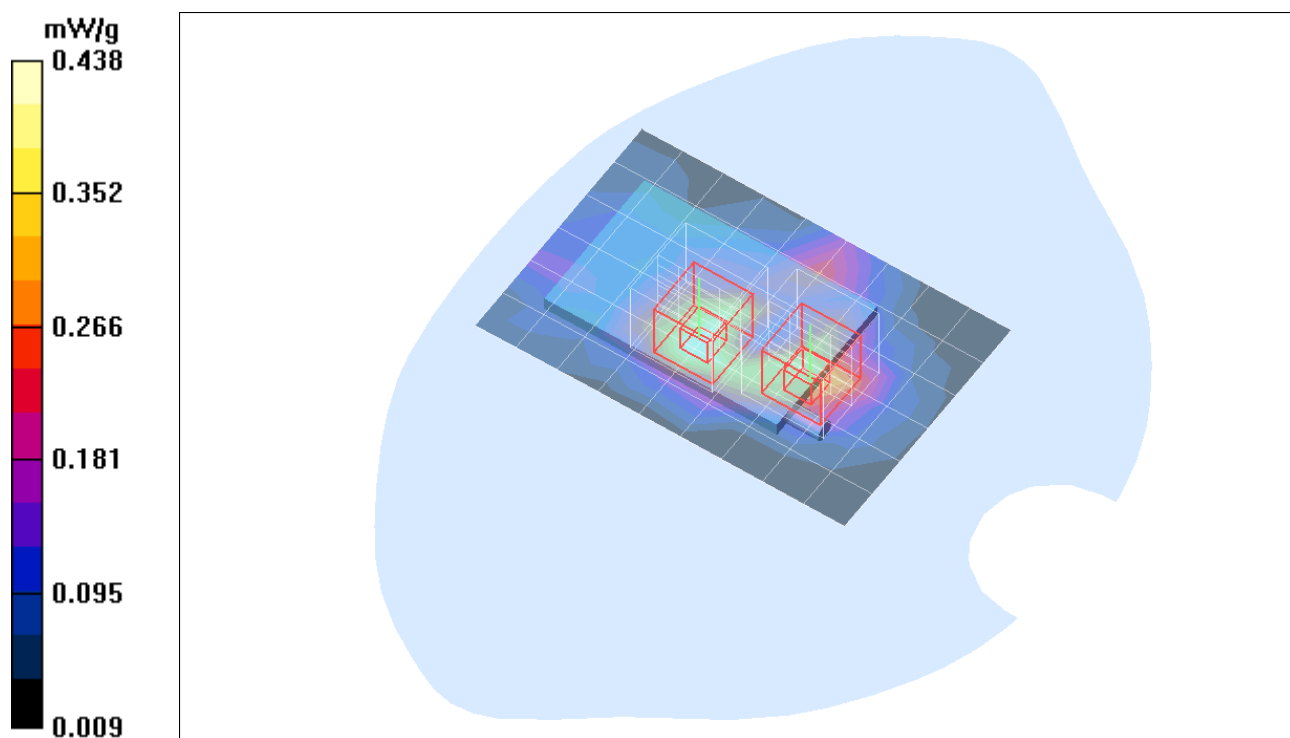
GSM1900 2Slot_L-ch 2/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.5 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.214 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.438 mW/g



Test Laboratory: Compliance Certification Services

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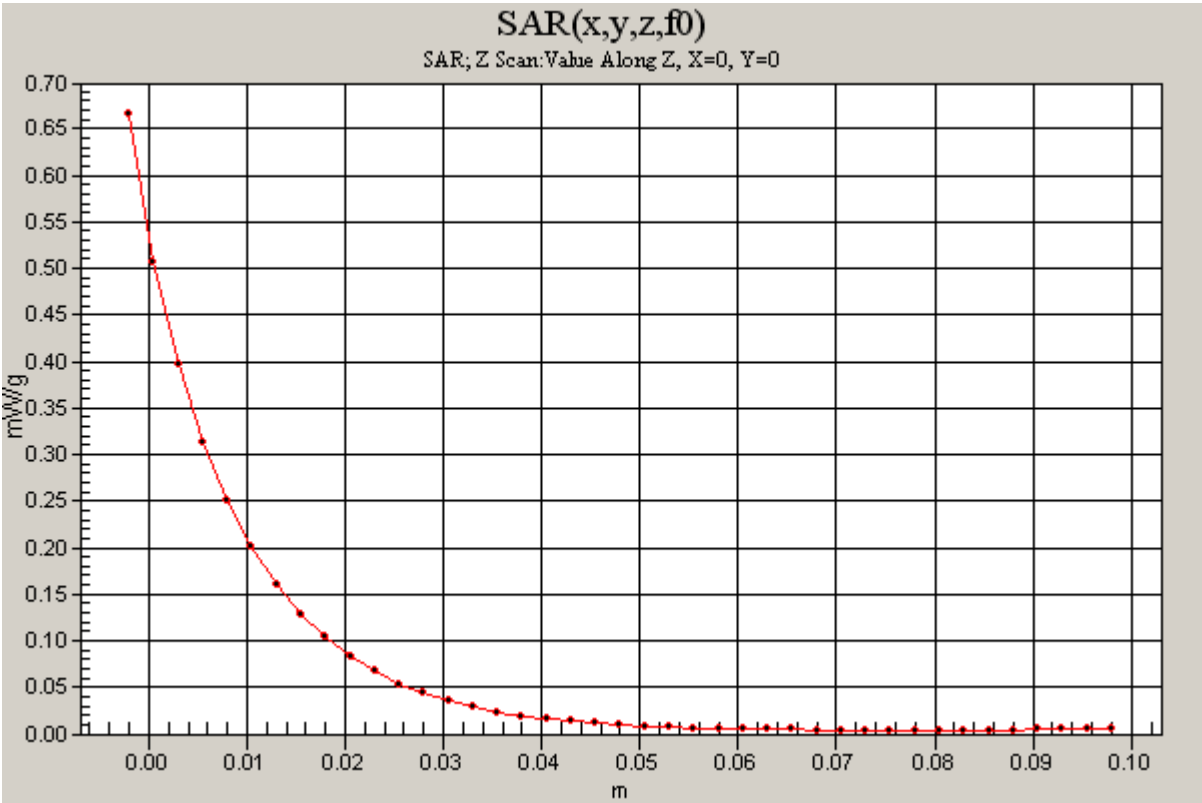
DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4

GSM1900 2Slot_M-ch 2/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) = 0.666 mW/g



Test Laboratory: Compliance Certification Services

1_Host # 1_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

GSM1900 2Slot_M-ch/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.388 mW/g

GSM1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.201 mW/g

Maximum value of SAR (measured) = 0.413 mW/g

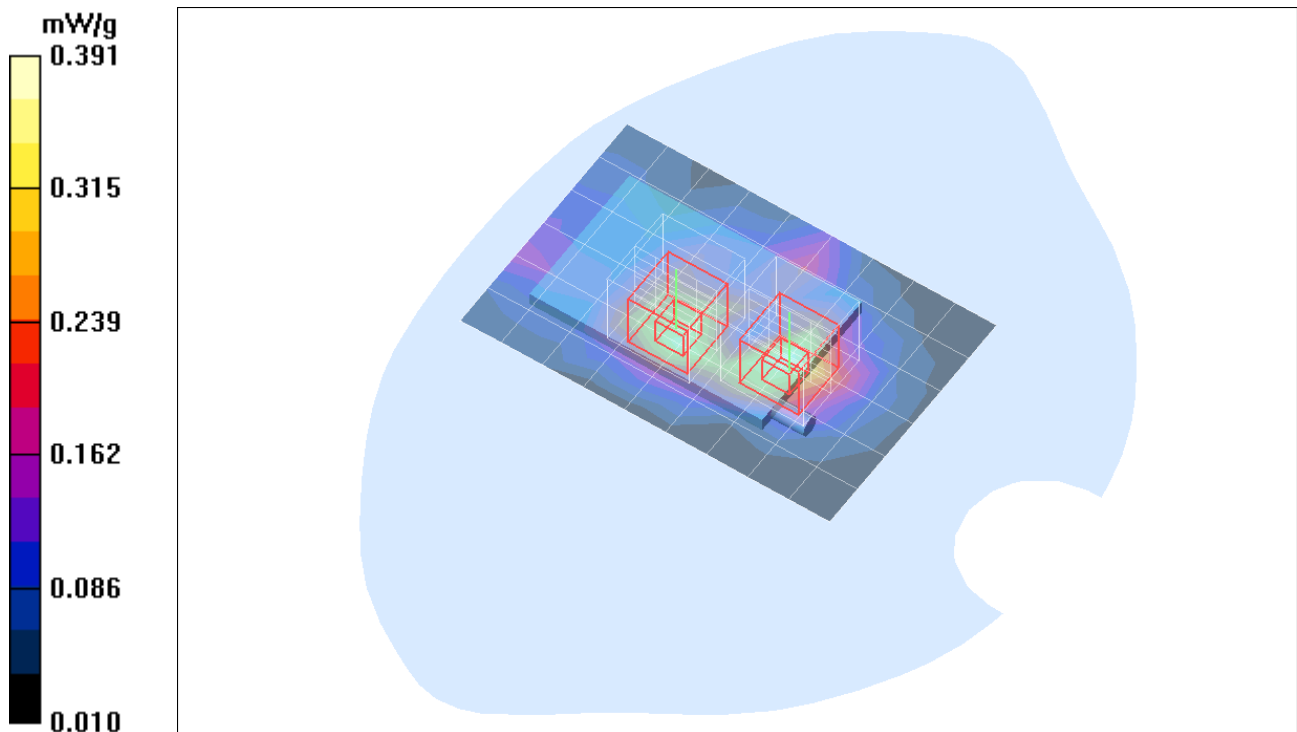
GSM1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.527 W/kg

SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.391 mW/g



Test Laboratory: Compliance Certification Services

1_Host # 1_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

GSM1900 2Slot_H-ch/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.391 mW/g

GSM1900 2Slot_H-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.605 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.408 mW/g

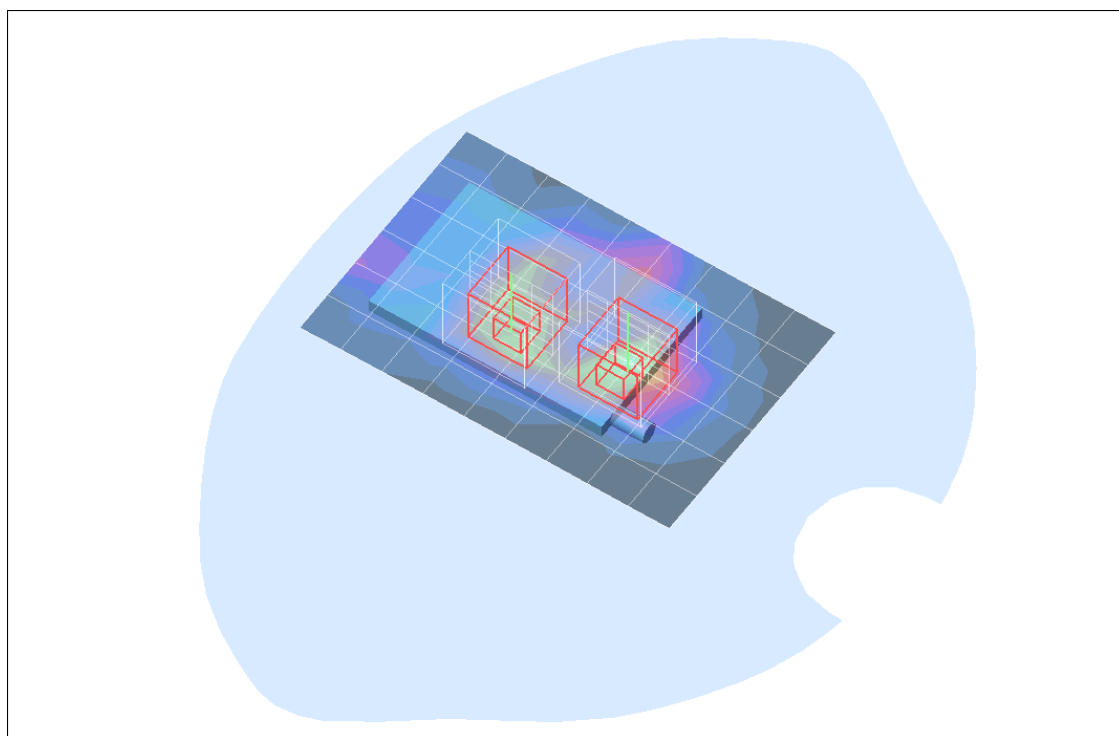
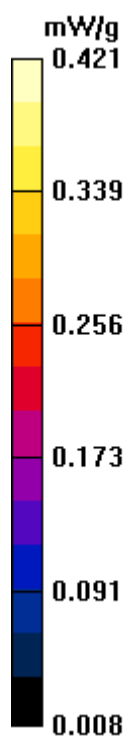
GSM1900 2Slot_H-ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.421 mW/g



Test Laboratory: Compliance Certification Services

1_Host # 1_Toshiba Satellite

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

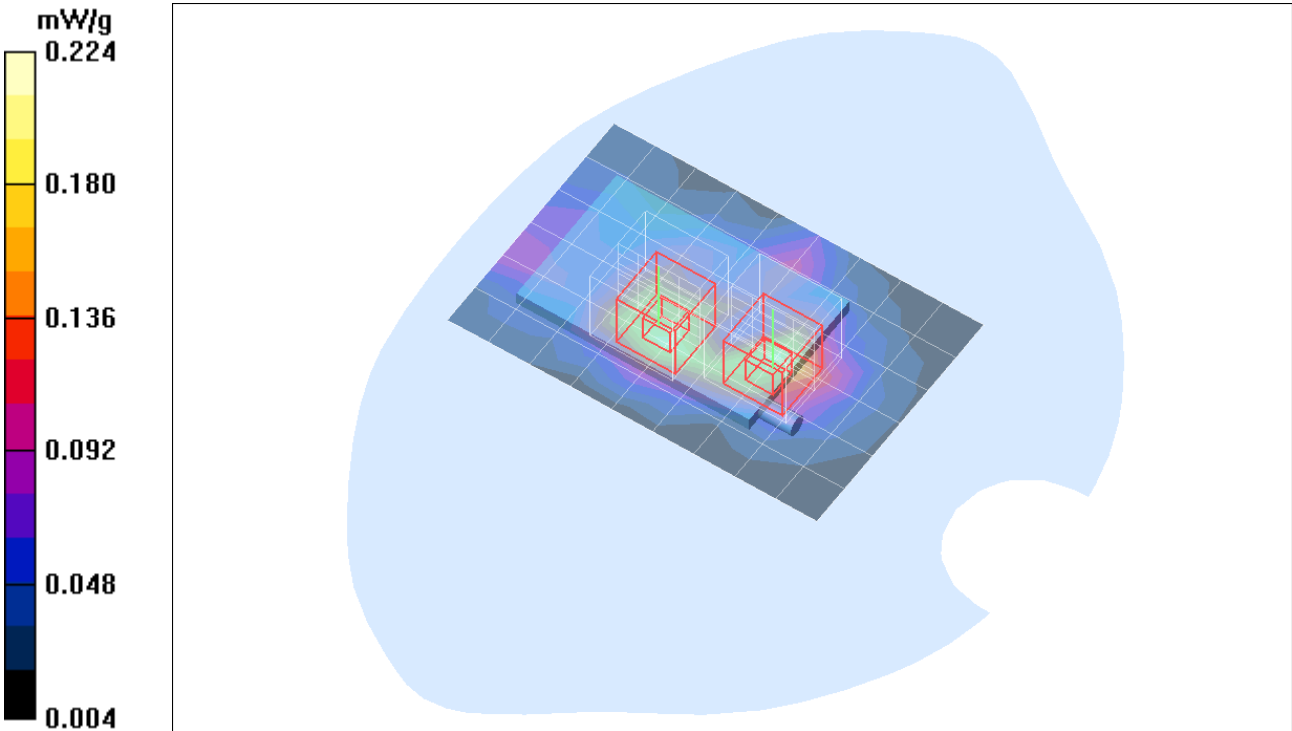
DASY4 Configuration:

- 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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

EDGE1900 2Slot_M-ch/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.208 mW/g

EDGE1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.96 V/m; Power Drift = -0.124 dB
Peak SAR (extrapolated) = 0.315 W/kg
SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.123 mW/g
Maximum value of SAR (measured) = 0.231 mW/g

EDGE1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.96 V/m; Power Drift = -0.124 dB
Peak SAR (extrapolated) = 0.328 W/kg
SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.109 mW/g
Maximum value of SAR (measured) = 0.224 mW/g



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2_Host # 2_NEC VERSA SX

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

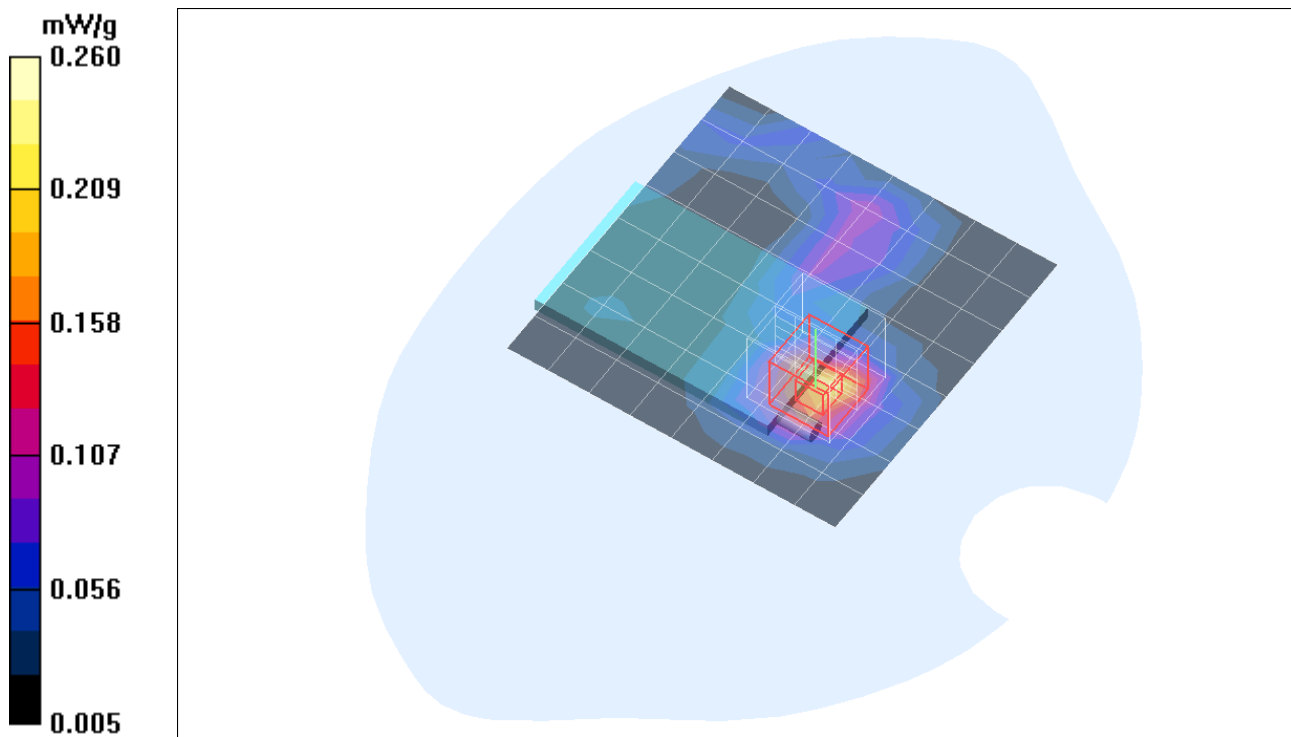
Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

GSM1900 2Slot_M-ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.221 mW/g

GSM1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.60 V/m; Power Drift = -0.180 dB
Peak SAR (extrapolated) = 0.399 W/kg
SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.260 mW/g



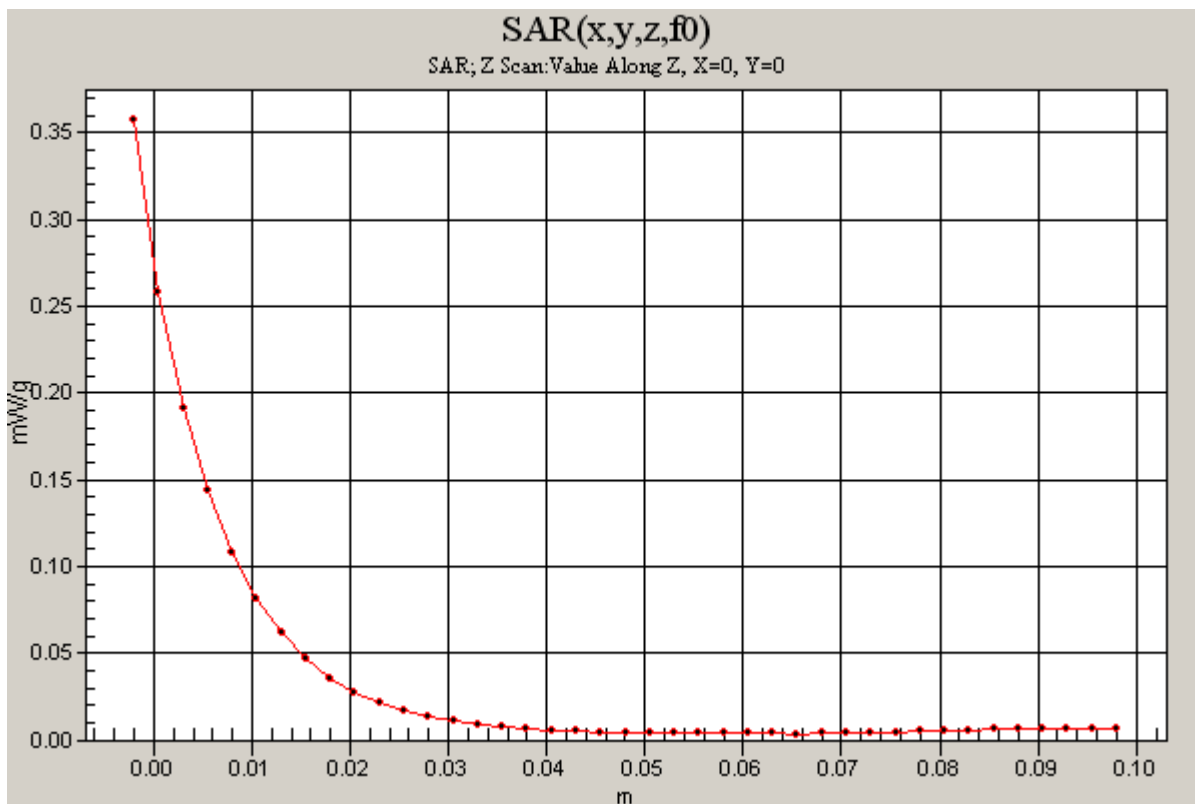
Test Laboratory: Compliance Certification Services

2_Host # 2_NEC VERSA SX

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

GSM1900 2Slot_M-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 0.357 mW/g



Test Laboratory: Compliance Certification Services

2_Host # 2_NEC VERSA SX

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

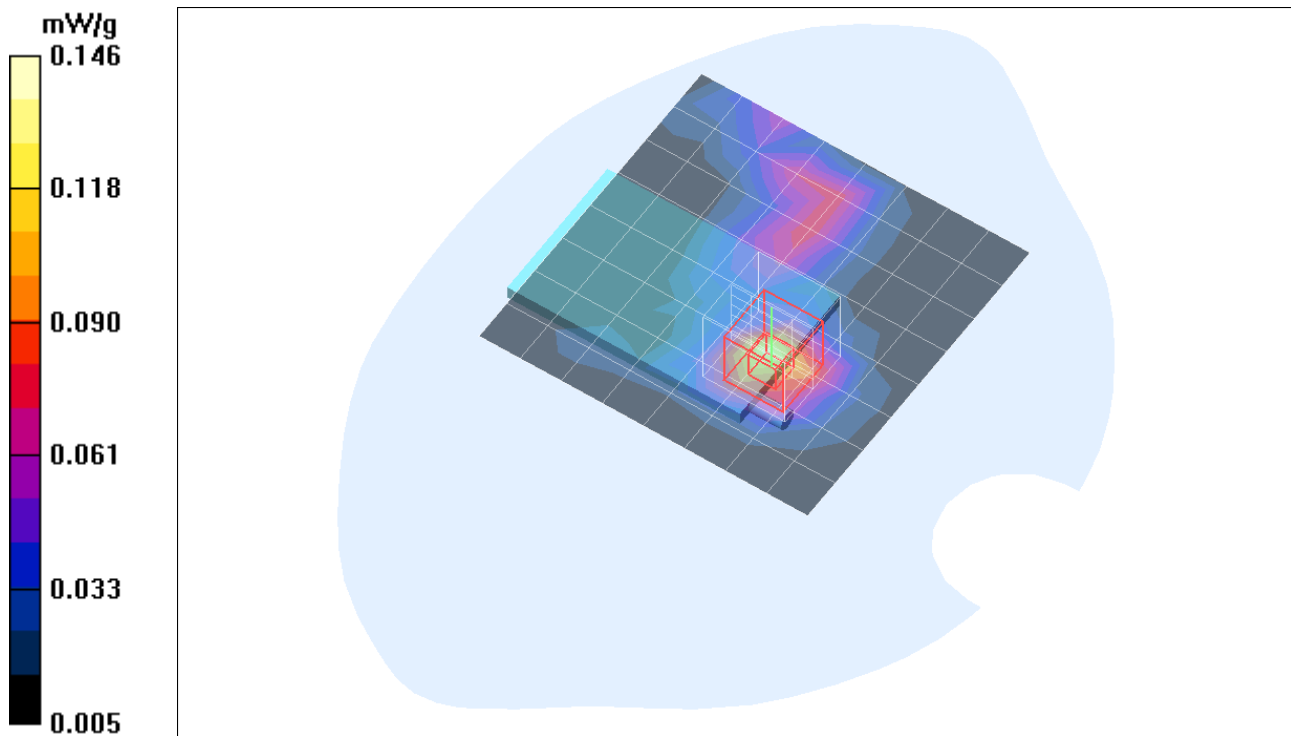
Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

EDGE1900 2Slot_M-ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.135 mW/g

EDGE1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.85 V/m; Power Drift = -0.163 dB
Peak SAR (extrapolated) = 0.218 W/kg
SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.071 mW/g
Maximum value of SAR (measured) = 0.146 mW/g



Test Laboratory: Compliance Certification Services

3_Host # 3_Compacq ARMADA E500

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

GSM1900 2Slot_M-ch/Area Scan (10x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.256 mW/g

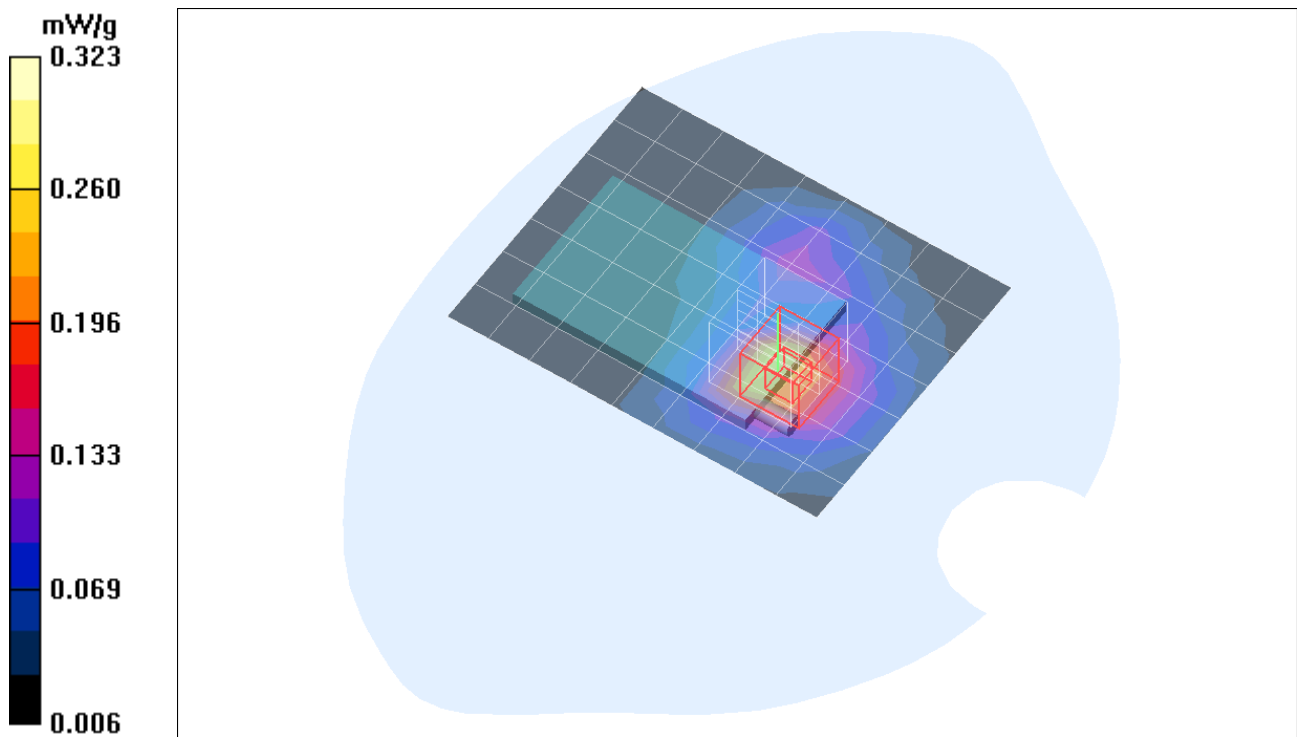
GSM1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.171 mW/g

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



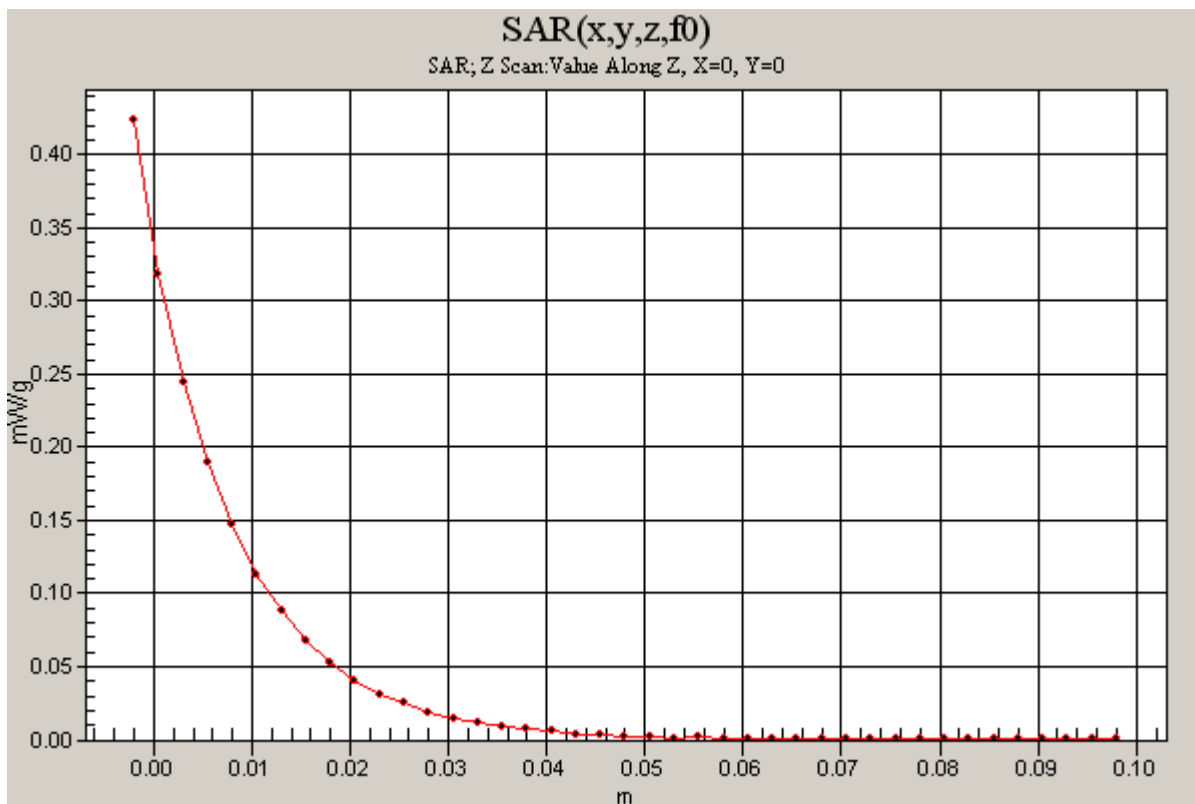
Test Laboratory: Compliance Certification Services

3_Host # 3_Compq ARMADA E500

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4

GSM1900 2Slot_M-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 0.424 mW/g



Test Laboratory: Compliance Certification Services

3_Host # 3_Compq ARMADA E500

DUT: Sierra Wireless; Type: AirCard 850; Serial: X1620350034E2

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 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 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

EDGE1900 2Slot_M-ch/Area Scan (10x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.118 mW/g

EDGE1900 2Slot_M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.11 V/m; Power Drift = -0.129 dB
Peak SAR (extrapolated) = 0.233 W/kg
SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.085 mW/g
Maximum value of SAR (measured) = 0.163 mW/g

