

Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

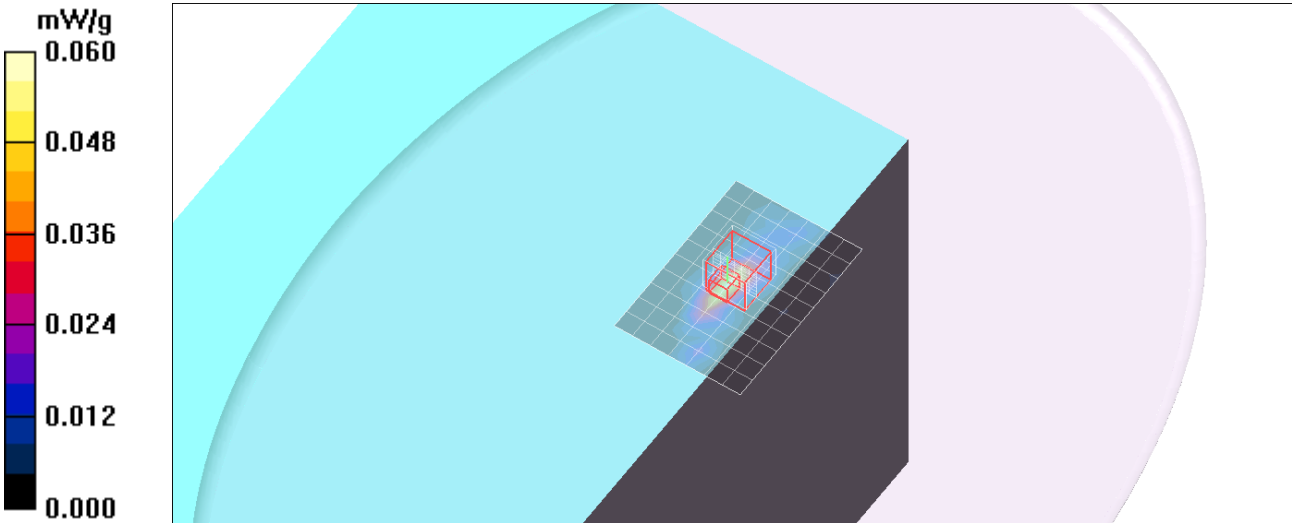
Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.26 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 40_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.060 mW/g

802.11a_Ch 40_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 3.83 V/m; Power Drift = 0.167 dB
Peak SAR (extrapolated) = 0.463 W/kg
SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.012 mW/g
Maximum value of SAR (measured) = 0.062 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5240 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.32$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 48_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.042 mW/g

802.11a_Ch 48_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

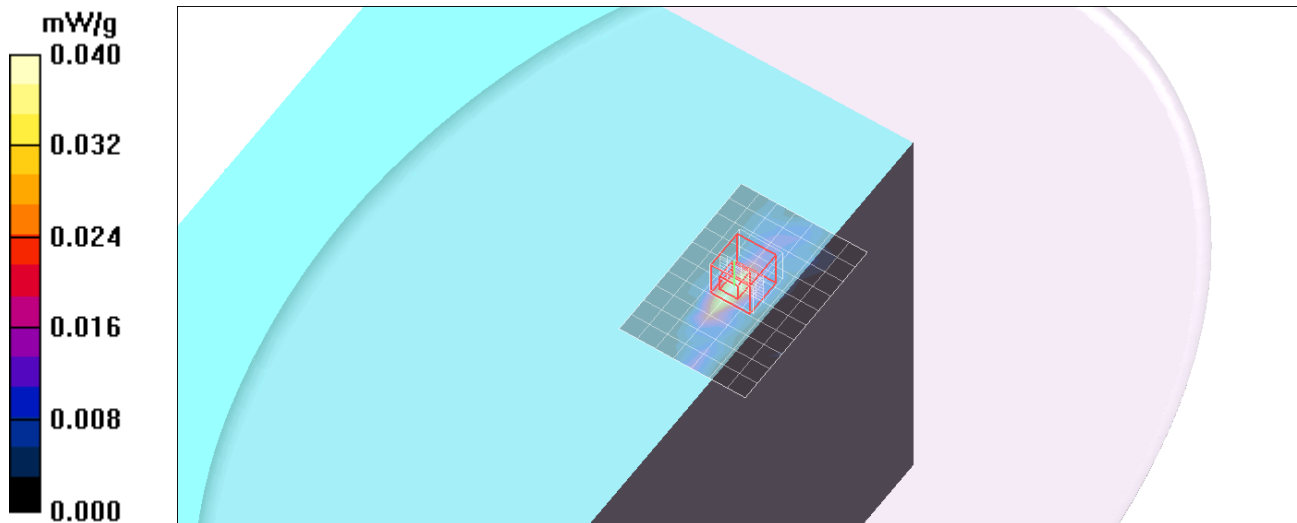
Reference Value = 3.27 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.00714 mW/g

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

Maximum value of SAR (measured) = 0.047 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.25$ mho/m; $\epsilon_r = 49.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

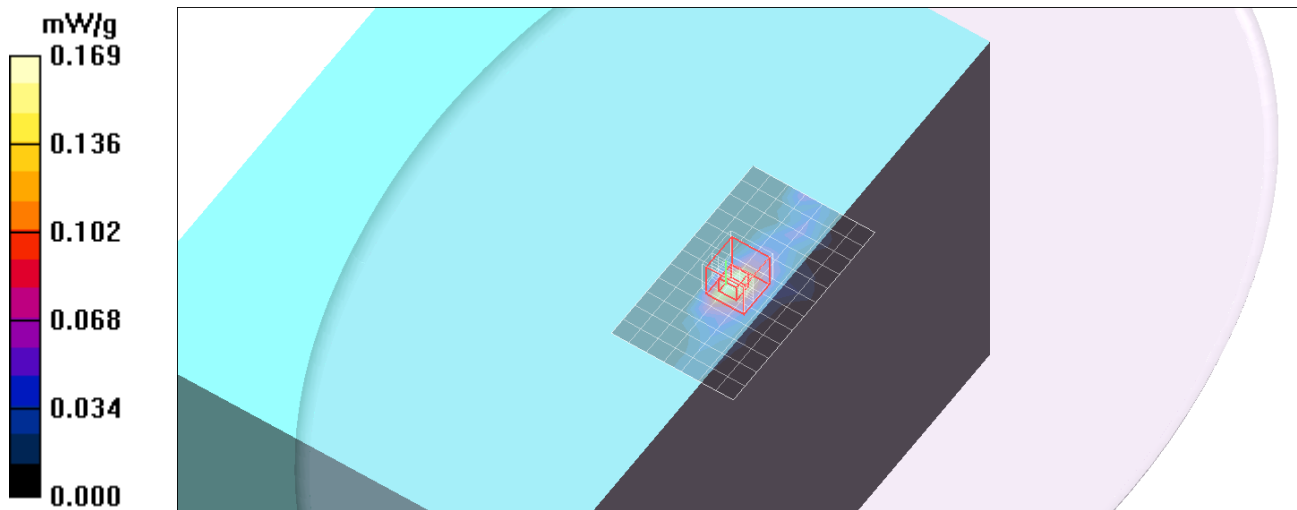
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 40_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.169 mW/g

802.11a_Ch 40_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.11 V/m; Power Drift = -0.220 dB
Peak SAR (extrapolated) = 0.270 W/kg
SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.171 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5240 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 49.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 48_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.163 mW/g

802.11a_Ch 48_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

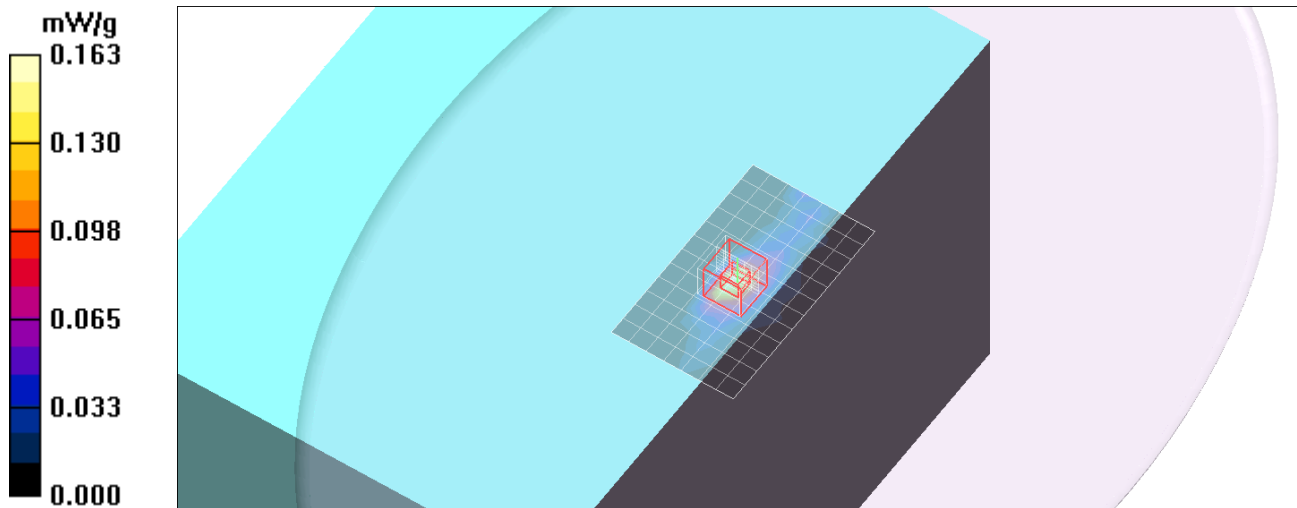
Reference Value = 6.00 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.033 mW/g

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

Maximum value of SAR (measured) = 0.168 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.2 GHz

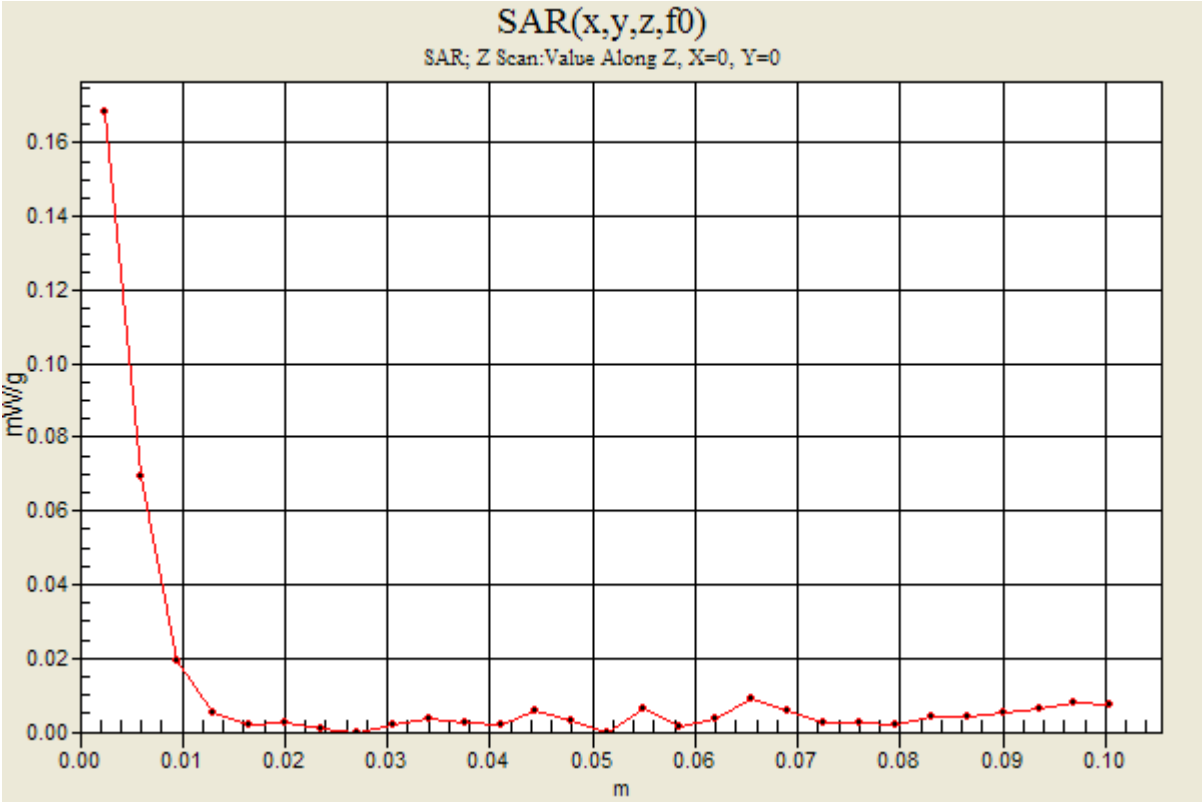
DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5240 MHz; Duty Cycle: 1:1

802.11a_Ch 48_Aux Ant/Z Scan (1x1x29): Measurement grid: dx=20mm, dy=20mm, dz=3.5mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.168 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

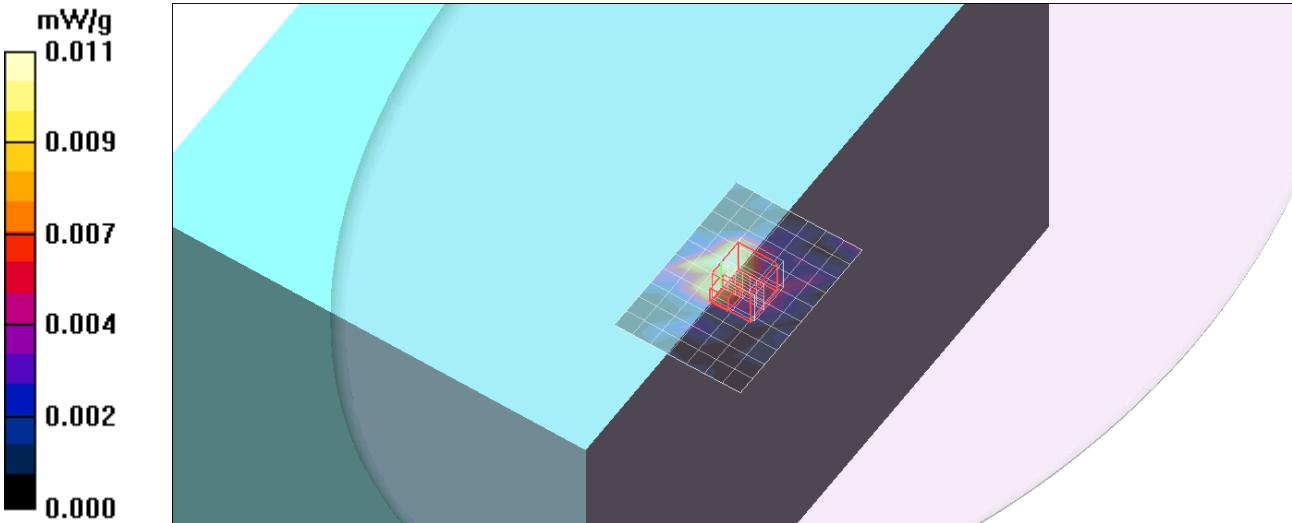
Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.26$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 40_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.011 mW/g

802.11a_Ch 40_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 1.53 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.084 W/kg
SAR(1 g) = 0.00378 mW/g; SAR(10 g) = 0.00104 mW/g
Maximum value of SAR (measured) = 0.015 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5240 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.32$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 48_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.017 mW/g

802.11a_Ch 48_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

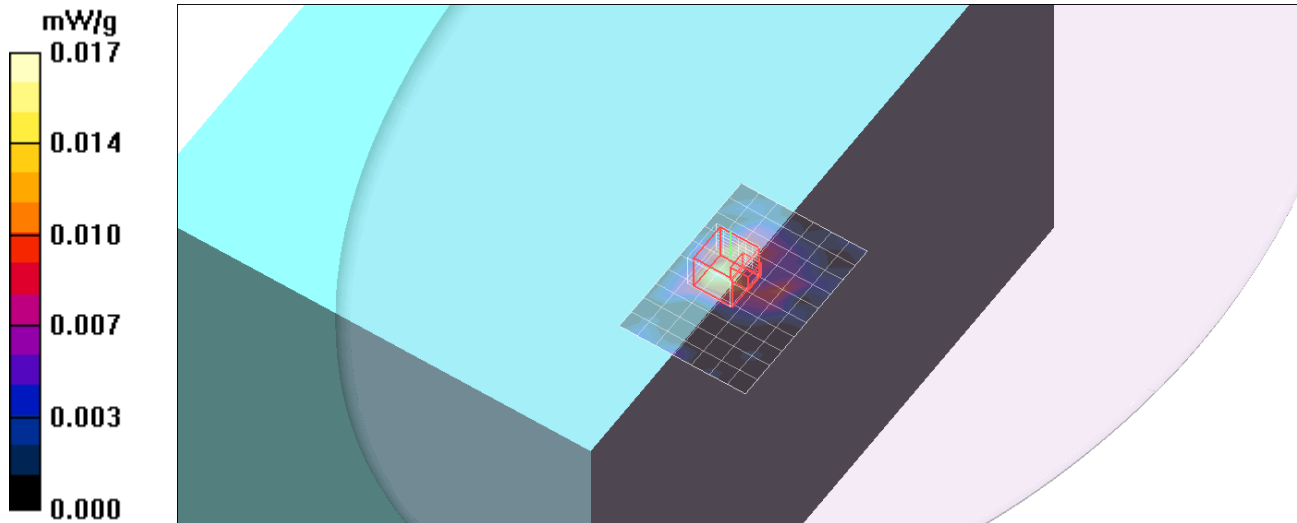
Reference Value = 1.69 V/m; Power Drift = 0.234 dB

Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.00575 mW/g; SAR(10 g) = 0.00184 mW/g

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

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



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.26$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

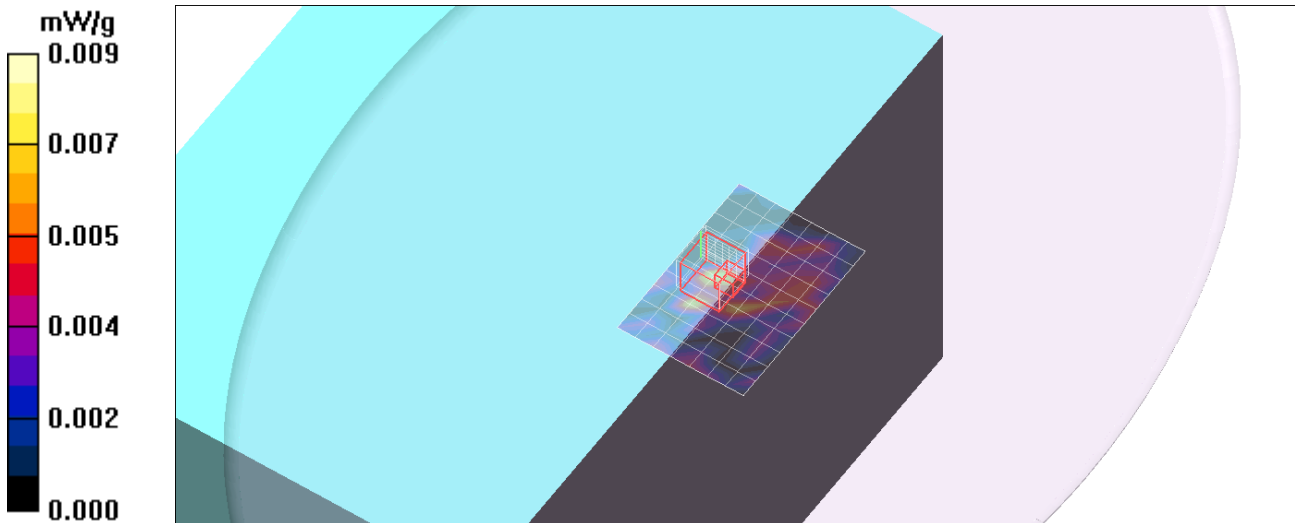
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 40_Aux Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.009 mW/g

802.11a_Ch 40_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 1.32 V/m; Power Drift = -0.179 dB
Peak SAR (extrapolated) = 0.062 W/kg
SAR(1 g) = 0.00203 mW/g; SAR(10 g) = 0.000421 mW/g
Maximum value of SAR (measured) = 0.018 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.2 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

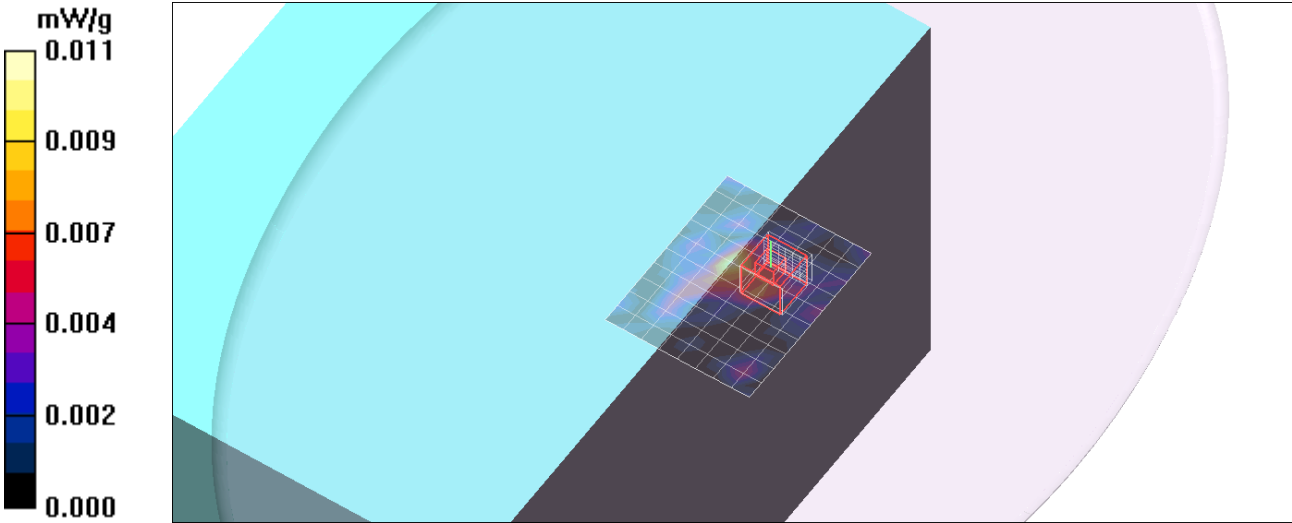
Communication System: 802.11abgn; Frequency: 5240 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5240 \text{ MHz}$; $\sigma = 5.32 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 48_Aux Ant/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm
[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 0.011 mW/g

802.11a_Ch 48_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 0.818 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.024 W/kg
SAR(1 g) = 0.00161 mW/g; SAR(10 g) = 0.000185 mW/g
[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 0.017 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5260 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.34$ mho/m; $\epsilon_r = 49.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

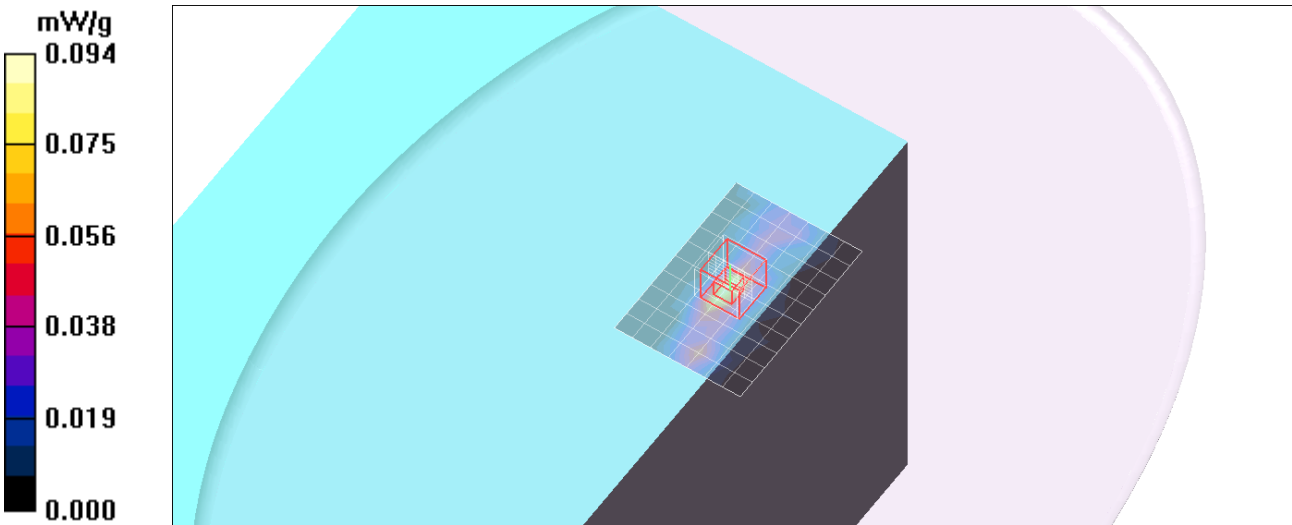
- DASY4 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
 - Probe: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 52_Main Ant/Area Scan (8x11x1):

Measurement grid: dx=10mm, dy=10mm
[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 0.094 mW/g

802.11a_Ch 52_Main Ant/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.62 V/m; Power Drift = -0.214 dB
Peak SAR (extrapolated) = 0.169 W/kg
SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.019 mW/g
[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 0.095 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

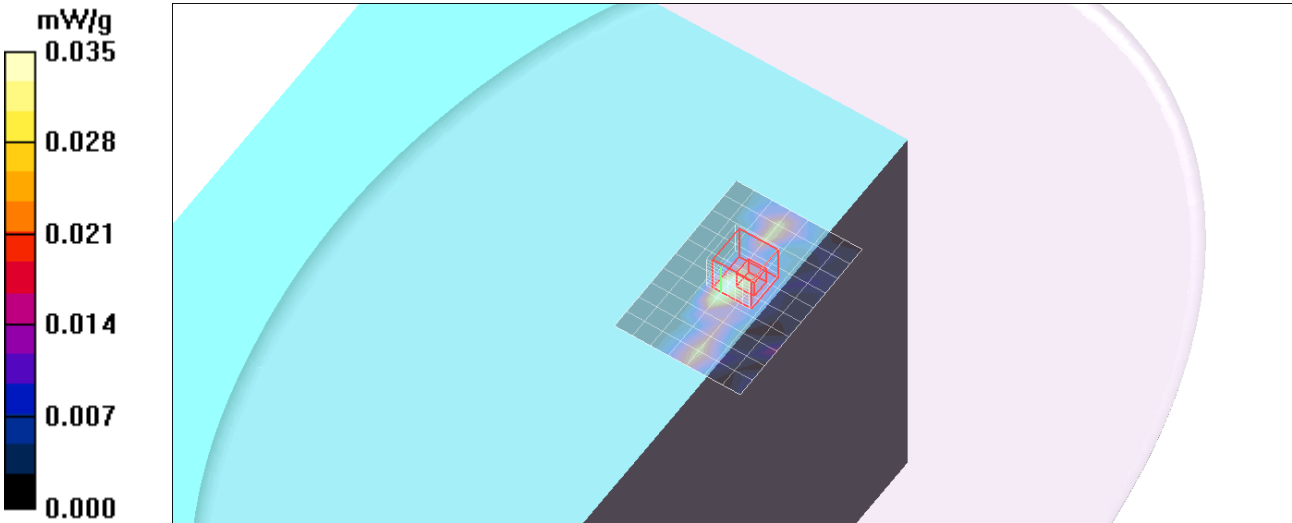
Communication System: 802.11abgn; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.4 \text{ mho/m}$; $\epsilon_r = 49$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 60_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.039 mW/g

802.11a_Ch 60_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.94 V/m; Power Drift = 0.103 dB
Peak SAR (extrapolated) = 0.049 W/kg
SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00382 mW/g
Maximum value of SAR (measured) = 0.040 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5260 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.34$ mho/m; $\epsilon_r = 49.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 52_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.422 mW/g

802.11a_Ch 52_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

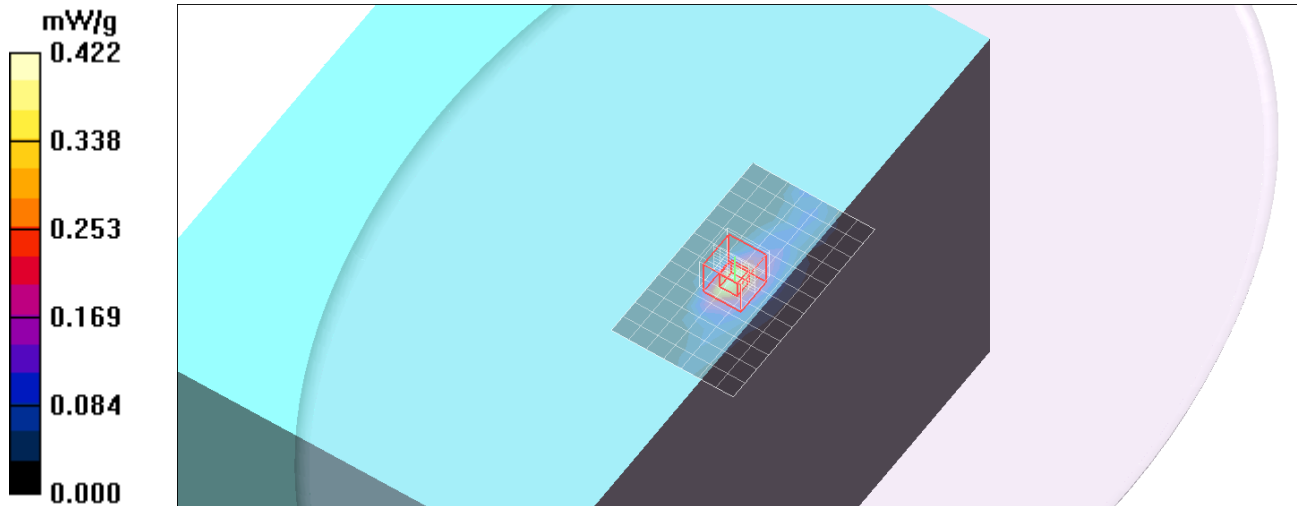
Reference Value = 9.74 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 0.771 W/kg

SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.085 mW/g

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

Maximum value of SAR (measured) = 0.424 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.3 GHz

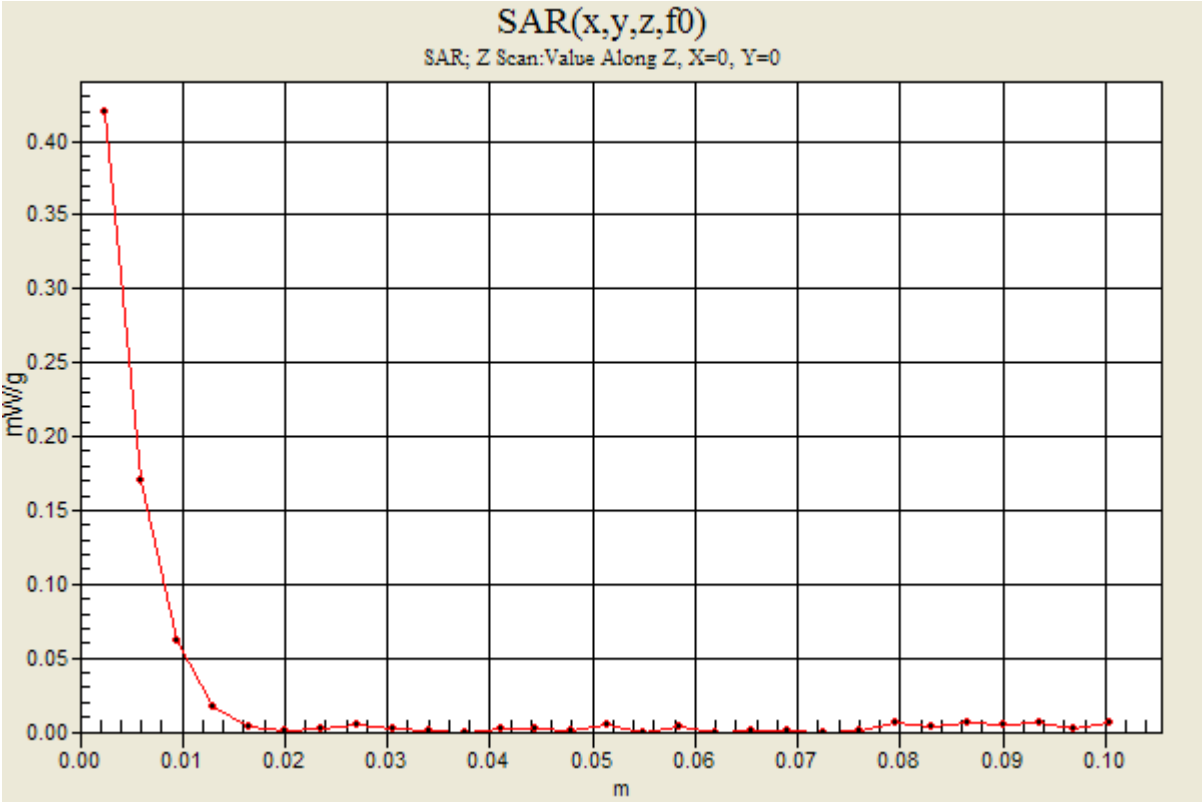
DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5260 MHz;Duty Cycle: 1:1

802.11a_Ch 52_Aux Ant/Z Scan (1x1x29): Measurement grid: dx=20mm, dy=20mm, dz=3.5mm

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

Maximum value of SAR (measured) = 0.420 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 5.4$ mho/m; $\epsilon_r = 49$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

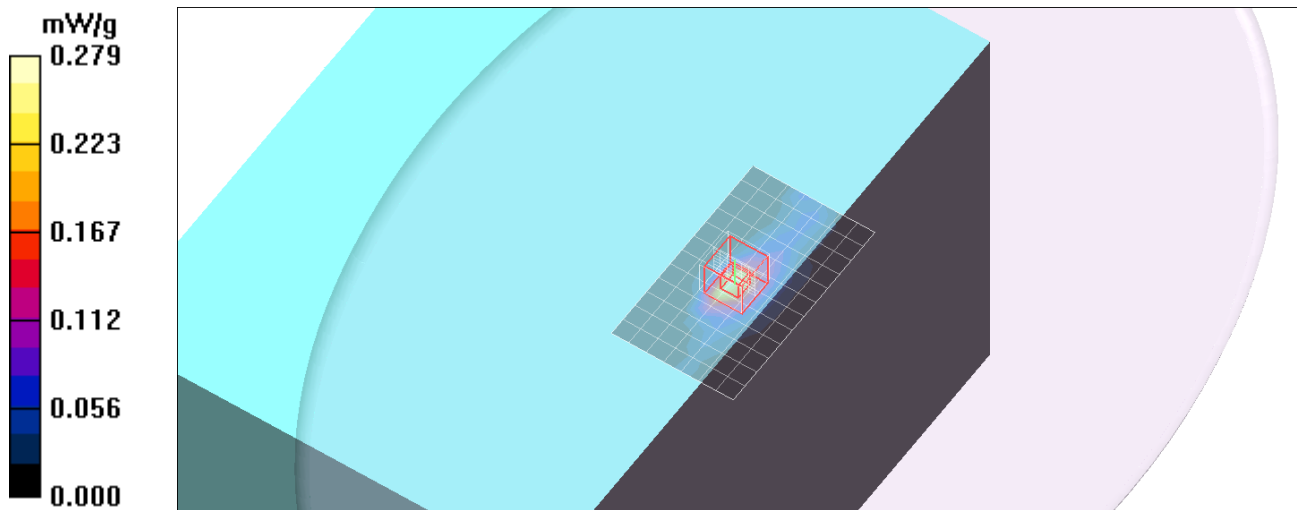
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 60_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.279 mW/g

802.11a_Ch 60_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.88 V/m; Power Drift = -0.129 dB
Peak SAR (extrapolated) = 0.484 W/kg
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.286 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5260 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.35$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 52_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.021 mW/g

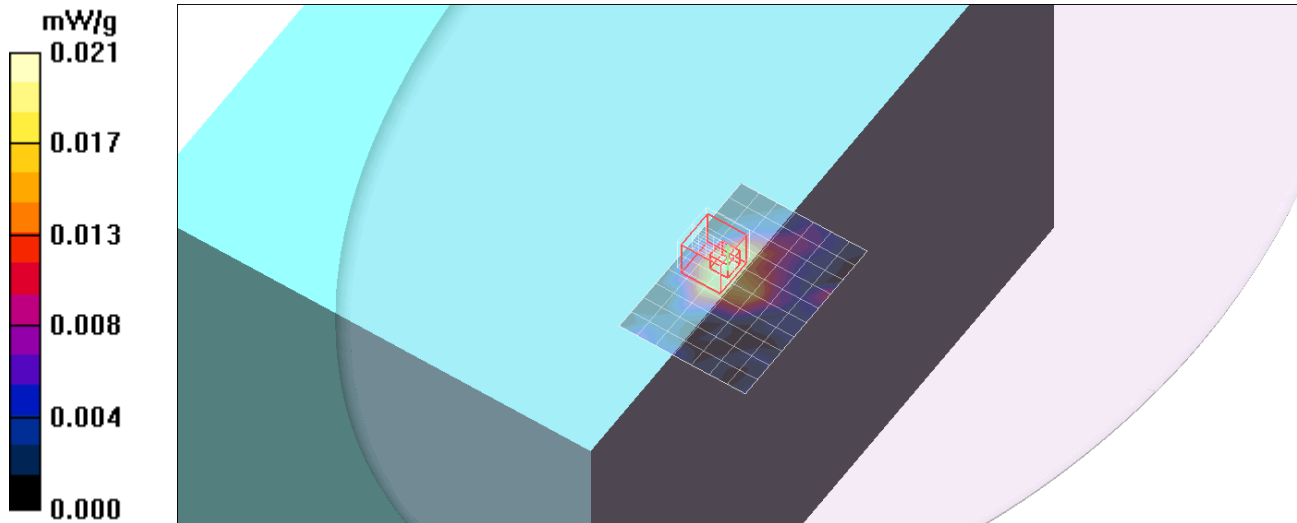
802.11a_Ch 52_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.05 V/m; Power Drift = -0.208 dB

Peak SAR (extrapolated) = 0.064 W/kg

SAR(1 g) = 0.00403 mW/g; SAR(10 g) = 0.00109 mW/g

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



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

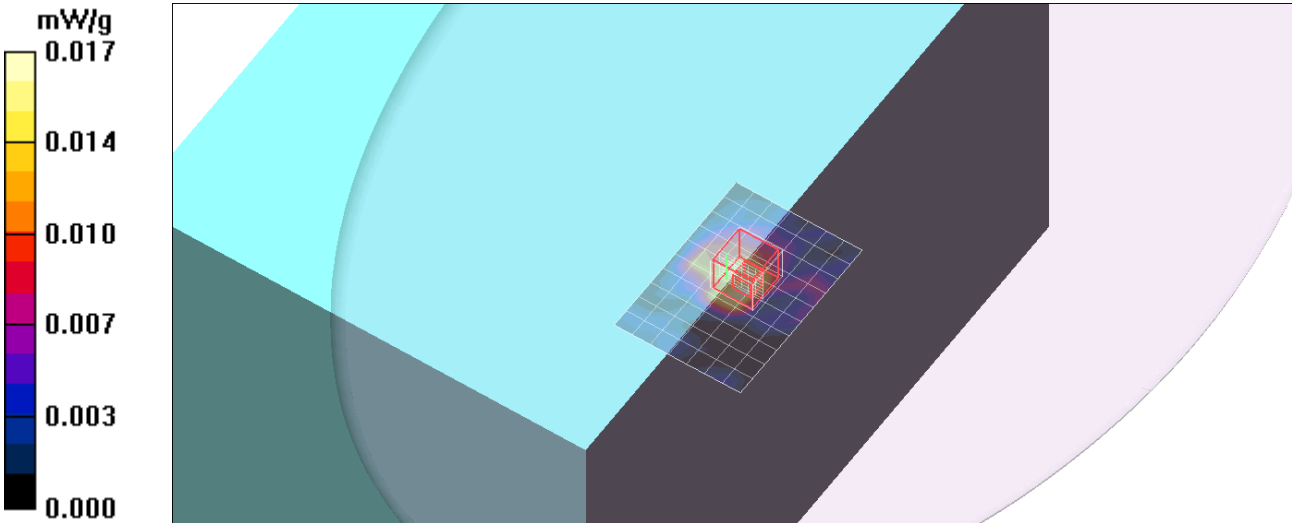
Communication System: 802.11abgn; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.4 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 60_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.017 mW/g

802.11a_Ch 60_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 1.58 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 0.105 W/kg
SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00355 mW/g
Maximum value of SAR (measured) = 0.022 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5260 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.35$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 52_Aux Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.012 mW/g

802.11a_Ch 52_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

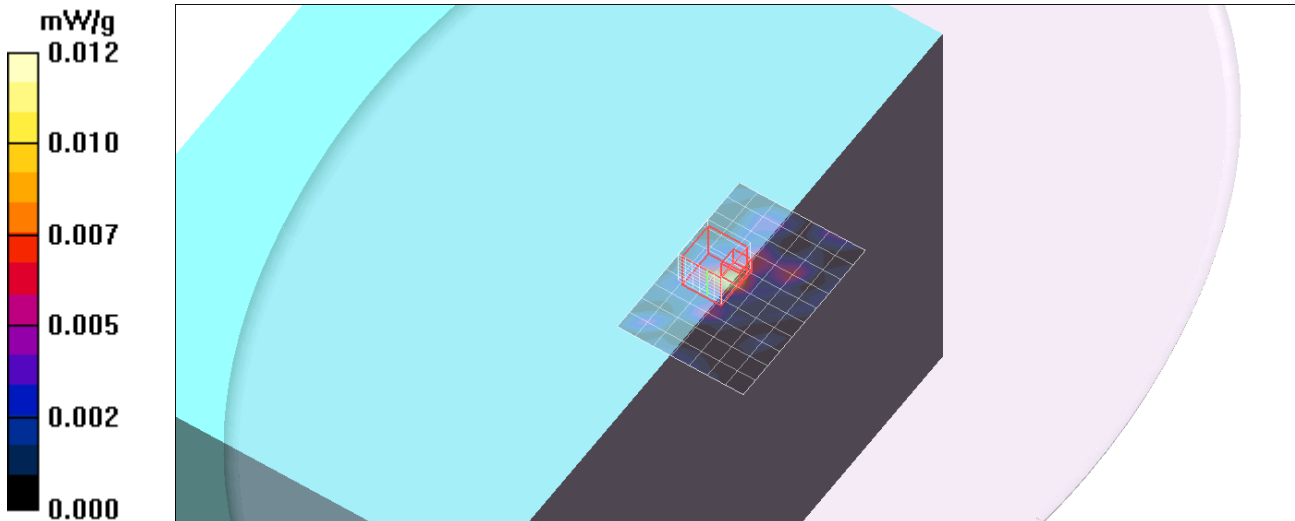
Reference Value = 1.50 V/m; Power Drift = -0.682 dB

Peak SAR (extrapolated) = 0.040 W/kg

SAR(1 g) = 0.00247 mW/g; SAR(10 g) = 0.000543 mW/g

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

Maximum value of SAR (measured) = 0.010 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.3 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 5.4$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

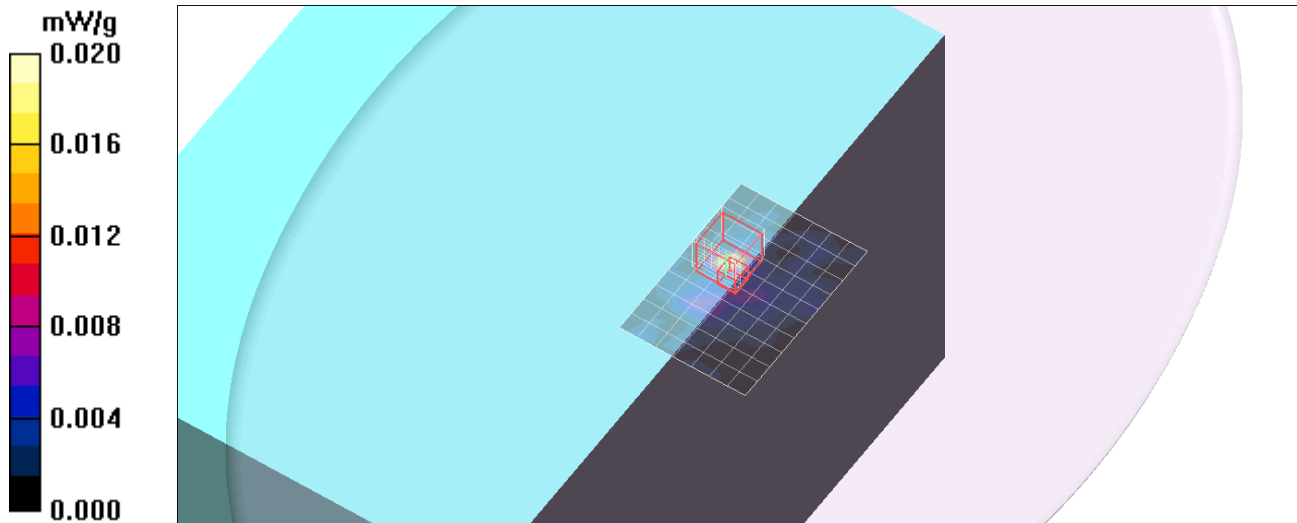
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.88, 3.88, 3.88); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 60_Aux Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.025 mW/g

802.11a_Ch 60_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 0.880 V/m; Power Drift = 0.243 dB
Peak SAR (extrapolated) = 0.038 W/kg
SAR(1 g) = 0.00377 mW/g; SAR(10 g) = 0.000772 mW/g
Maximum value of SAR (measured) = 0.012 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.85$ mho/m; $\epsilon_r = 48.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 120_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.365 mW/g

802.11a_Ch 120_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

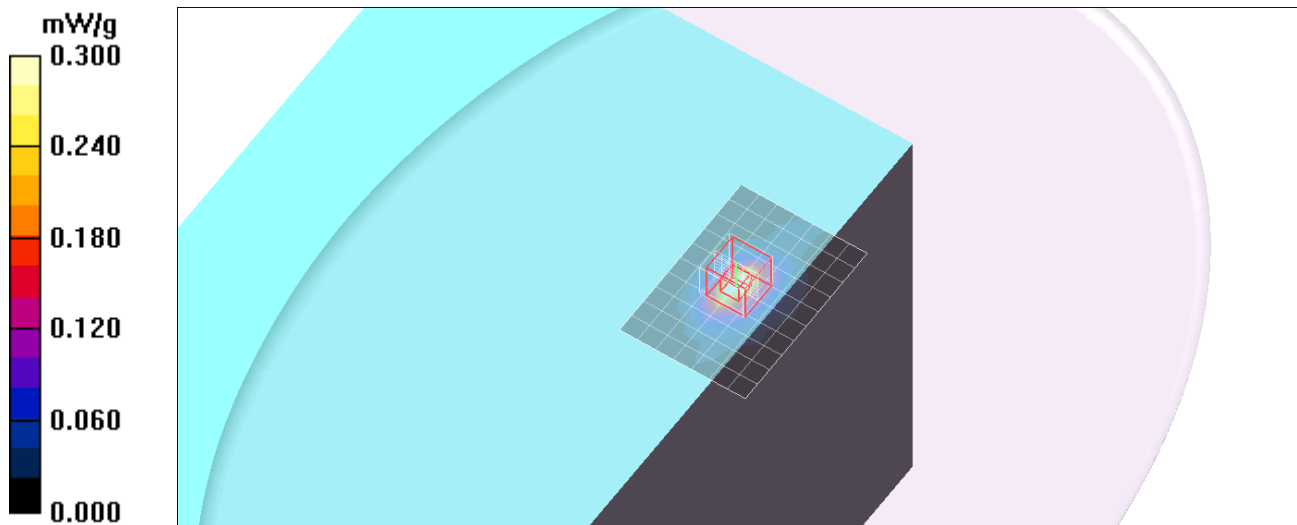
dz=2.5mm

Reference Value = 8.72 V/m; Power Drift = 0.090 dB

Peak SAR (extrapolated) = 0.664 W/kg

SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.356 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5700$ MHz; $\sigma = 6$ mho/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 140_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.702 mW/g

802.11a_Ch 140_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

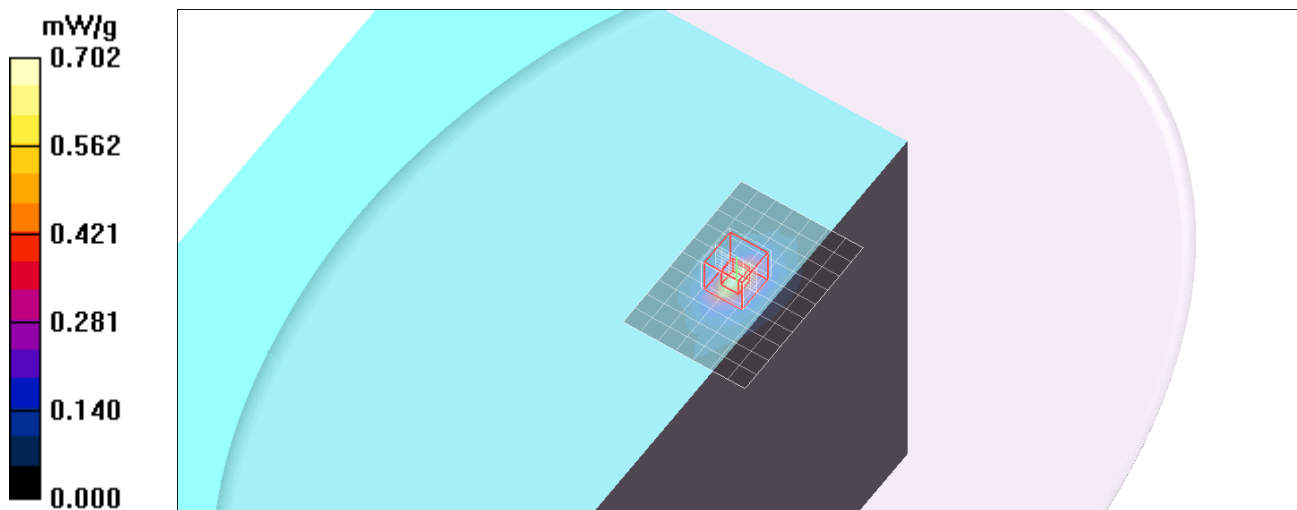
dz=2.5mm

Reference Value = 12.0 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.689 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

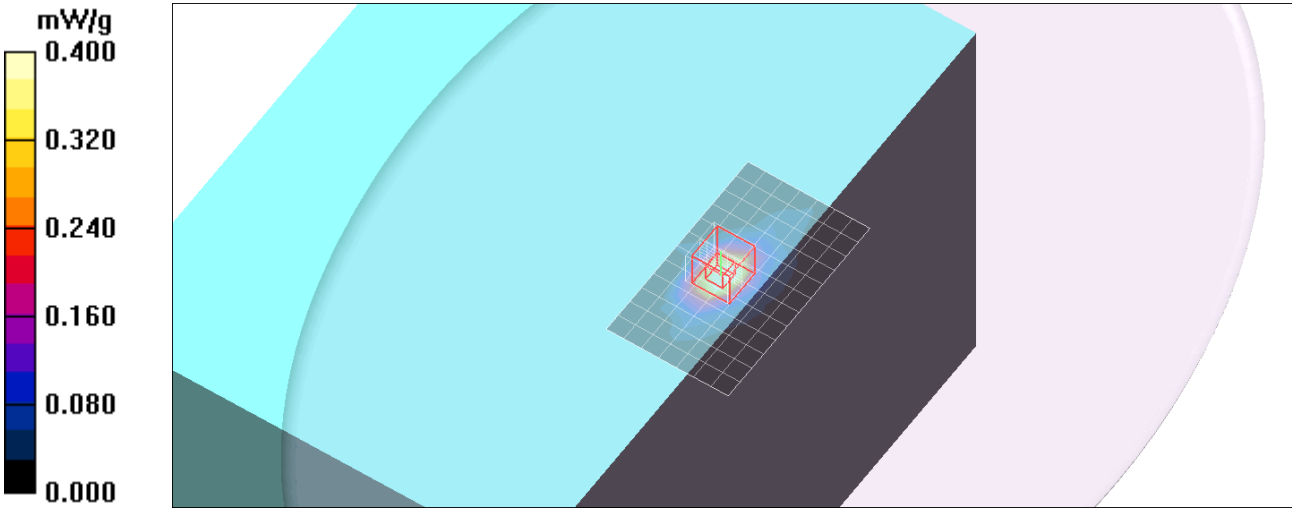
Communication System: 802.11abgn; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.85 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 120_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.509 mW/g

802.11a_Ch 120_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.4 V/m; Power Drift = 0.174 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.103 mW/g
Maximum value of SAR (measured) = 0.638 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

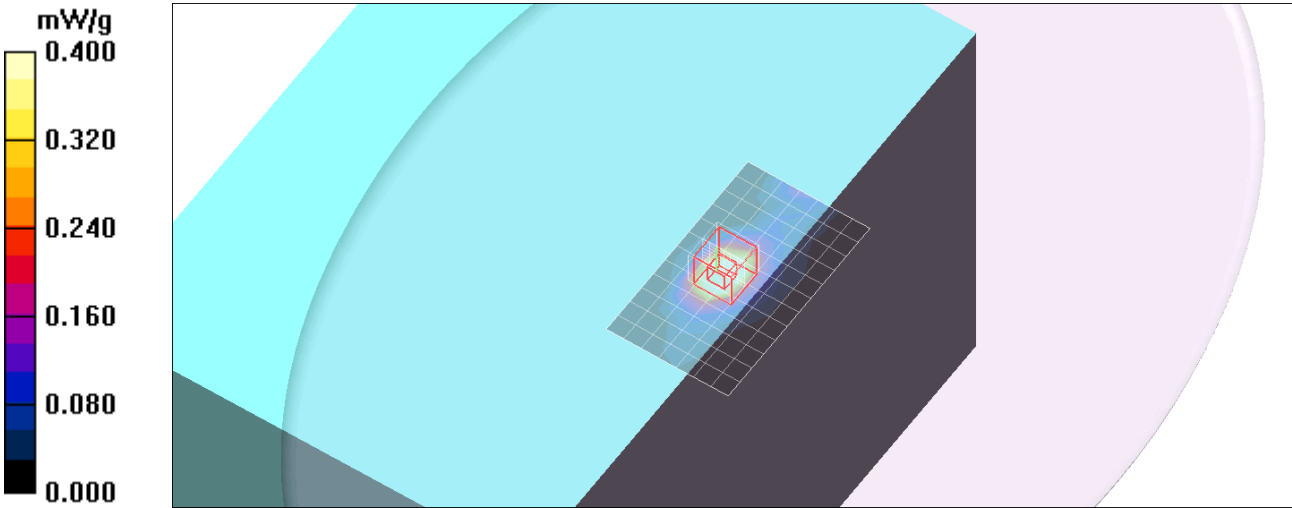
Communication System: 802.11abgn; Frequency: 5700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6 \text{ mho/m}$; $\epsilon_r = 48.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 140_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.653 mW/g

802.11a_Ch 140_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 11.5 V/m; Power Drift = 0.227 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.141 mW/g
Maximum value of SAR (measured) = 0.766 mW/g



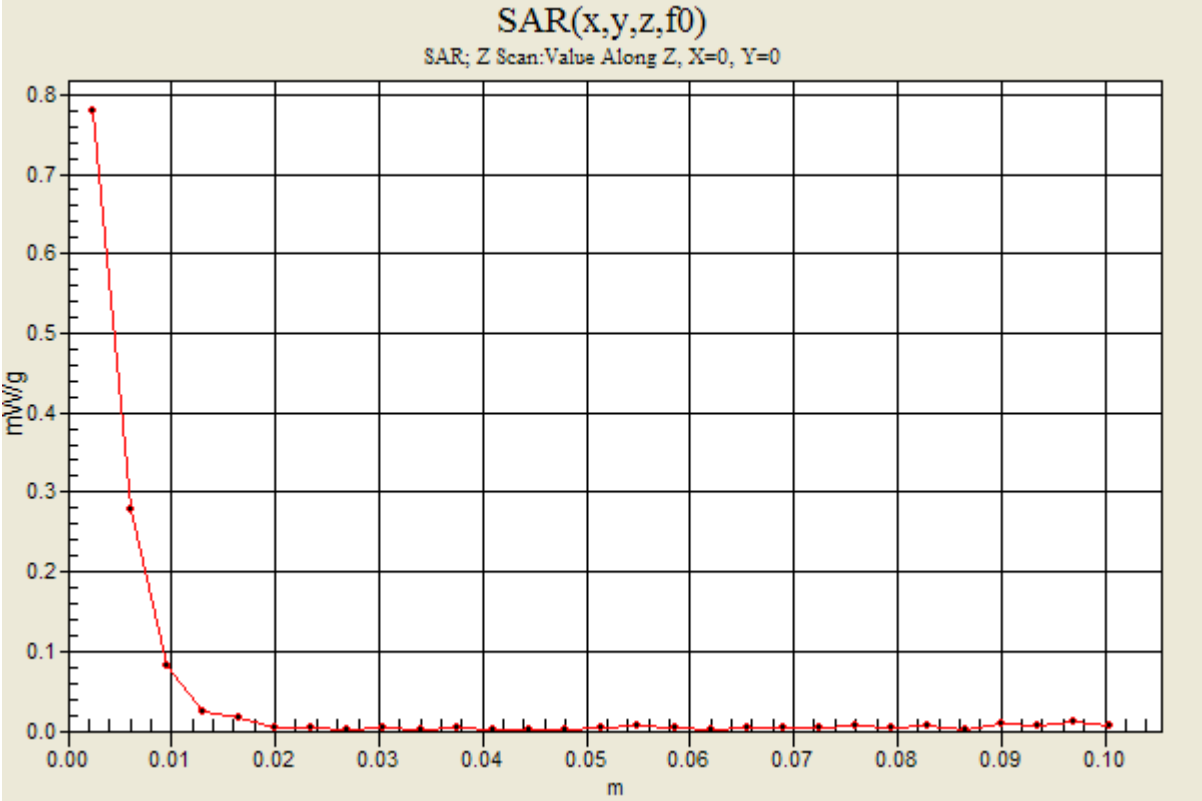
Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5700 MHz;Duty Cycle: 1:1

802.11a_Ch 140_Aux Ant/Z Scan (1x1x29): Measurement grid: dx=20mm, dy=20mm, dz=3.5mm
Maximum value of SAR (measured) = 0.779 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5670 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 5.95$ mho/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11n HT40_Ch 134_Main/Aux Ant/Area Scan (8x17x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.621 mW/g

802.11n HT40_Ch 134_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 11.3 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.128 mW/g

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

Maximum value of SAR (measured) = 0.725 mW/g

802.11n HT40_Ch 134_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

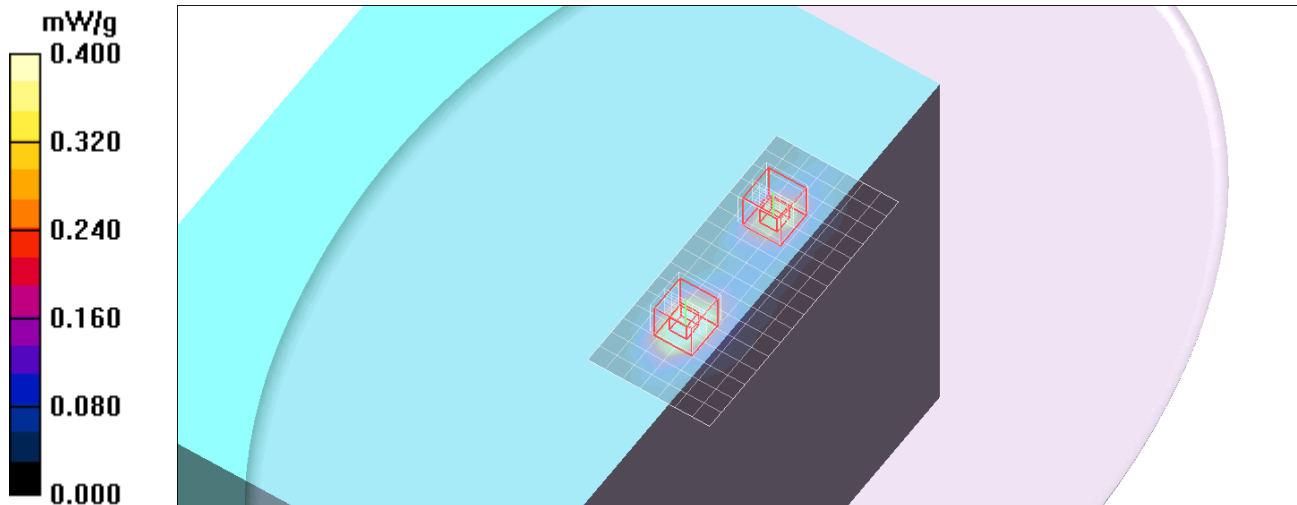
Reference Value = 11.3 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.869 W/kg

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.084 mW/g

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

Maximum value of SAR (measured) = 0.455 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.85 \text{ mho/m}$; $\epsilon_r = 50.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

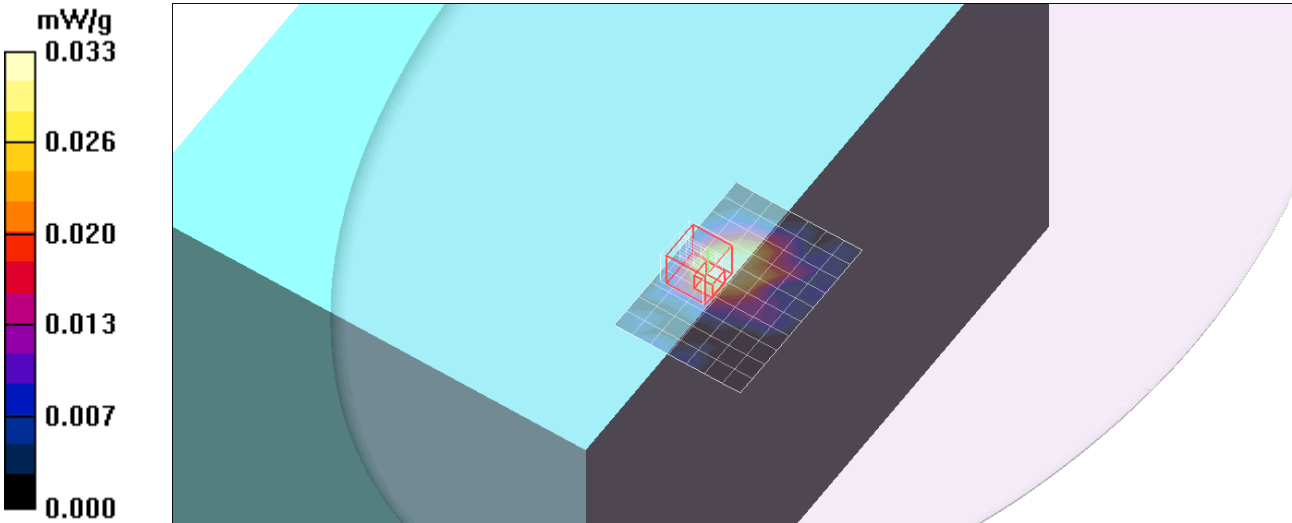
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 120_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.033 mW/g

802.11a_Ch 120_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.71 V/m; Power Drift = -0.088 dB
Peak SAR (extrapolated) = 0.232 W/kg
SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.00675 mW/g
Maximum value of SAR (measured) = 0.037 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 5.99 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

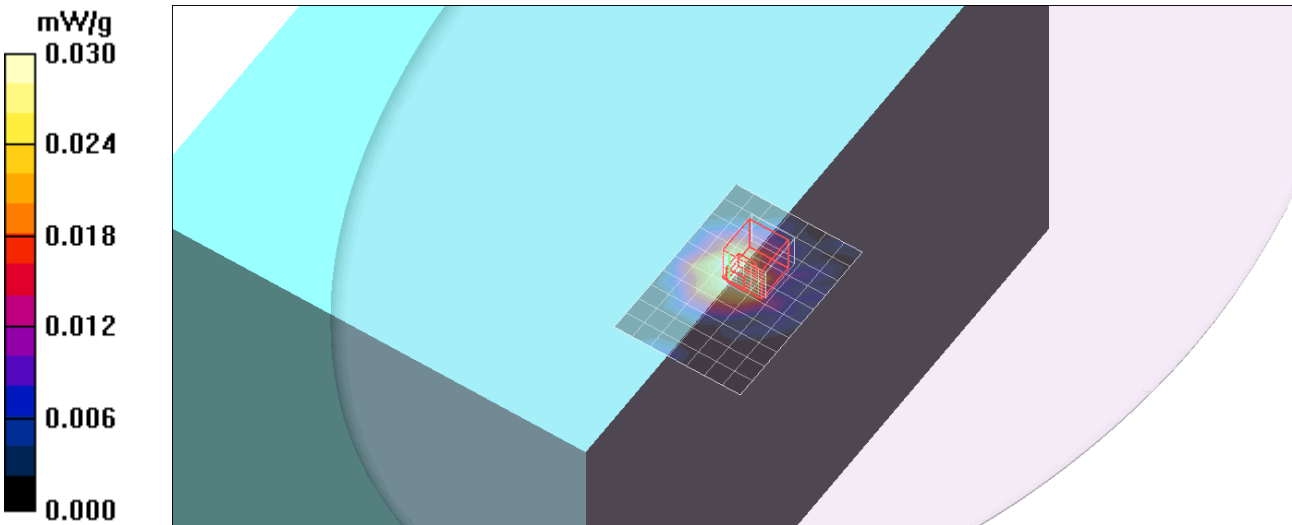
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 140_Main Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.030 mW/g

802.11a_Ch 140_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.24 V/m; Power Drift = 0.190 dB
Peak SAR (extrapolated) = 0.182 W/kg
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.0075 mW/g
Maximum value of SAR (measured) = 0.033 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

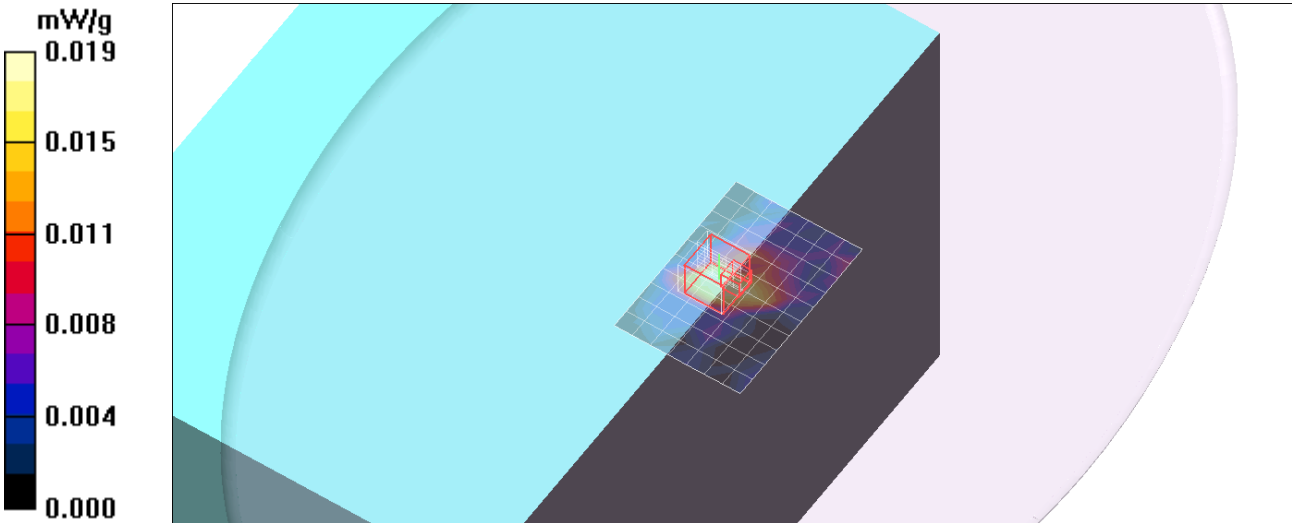
Communication System: 802.11abgn; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.85 \text{ mho/m}$; $\epsilon_r = 50.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 120_Aux Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.019 mW/g

802.11a_Ch 120_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.08 V/m; Power Drift = 0.211 dB
Peak SAR (extrapolated) = 0.079 W/kg
SAR(1 g) = 0.0071 mW/g; SAR(10 g) = 0.00217 mW/g
Maximum value of SAR (measured) = 0.024 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 5.99 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

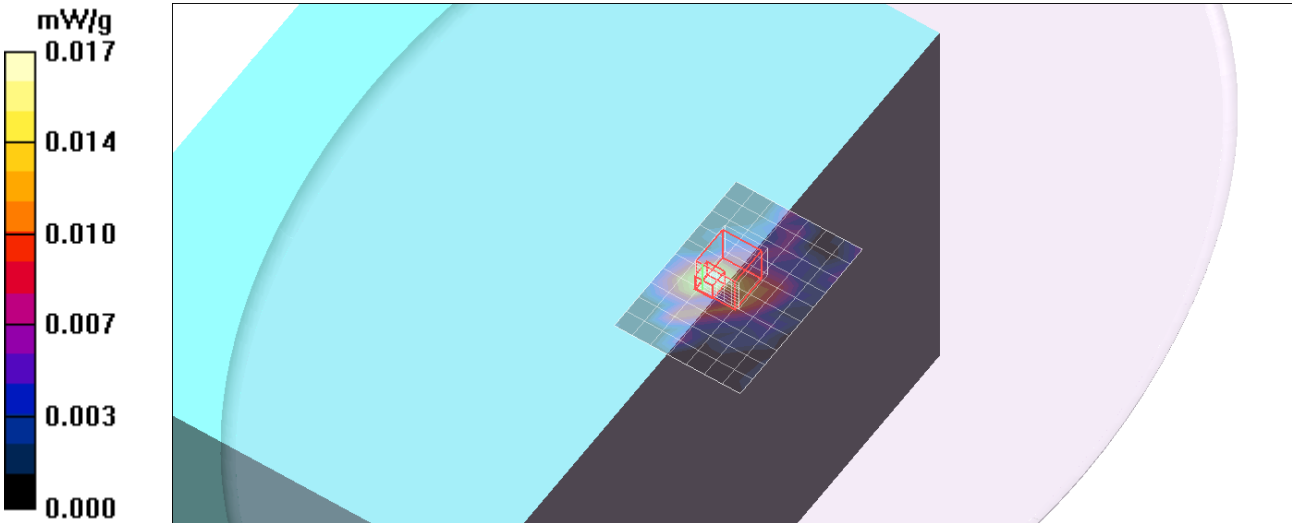
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 140_Aux Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.017 mW/g

802.11a_Ch 140_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 1.62 V/m; Power Drift = 0.125 dB
Peak SAR (extrapolated) = 0.061 W/kg
SAR(1 g) = 0.00288 mW/g; SAR(10 g) = 0.000587 mW/g
Maximum value of SAR (measured) = 0.021 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.5 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5670 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 5.95$ mho/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.36, 3.36, 3.36); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11n HT40_Ch 134_Main/Aux Ant/Area Scan (8x17x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.018 mW/g

802.11n HT40_Ch 134_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.01 V/m; Power Drift = 0.205 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00364 mW/g

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

Maximum value of SAR (measured) = 0.021 mW/g

802.11n HT40_Ch 134_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

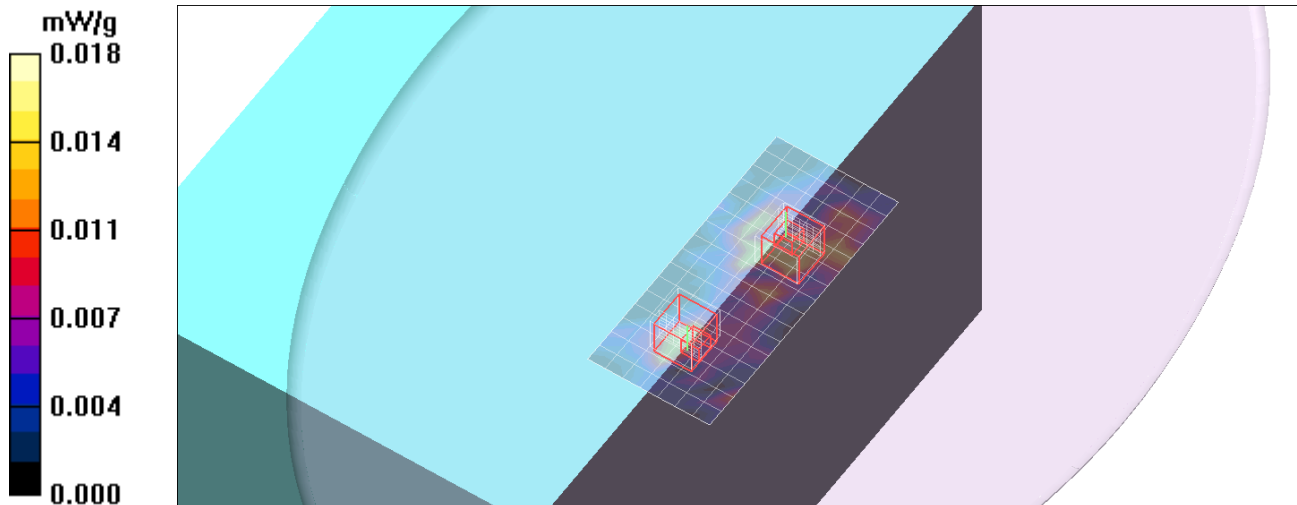
Reference Value = 2.01 V/m; Power Drift = 0.205 dB

Peak SAR (extrapolated) = 0.041 W/kg

SAR(1 g) = 0.00382 mW/g; SAR(10 g) = 0.00115 mW/g

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

Maximum value of SAR (measured) = 0.016 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.8 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.13$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 157_Main Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.435 mW/g

802.11a_Ch 157_Main Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

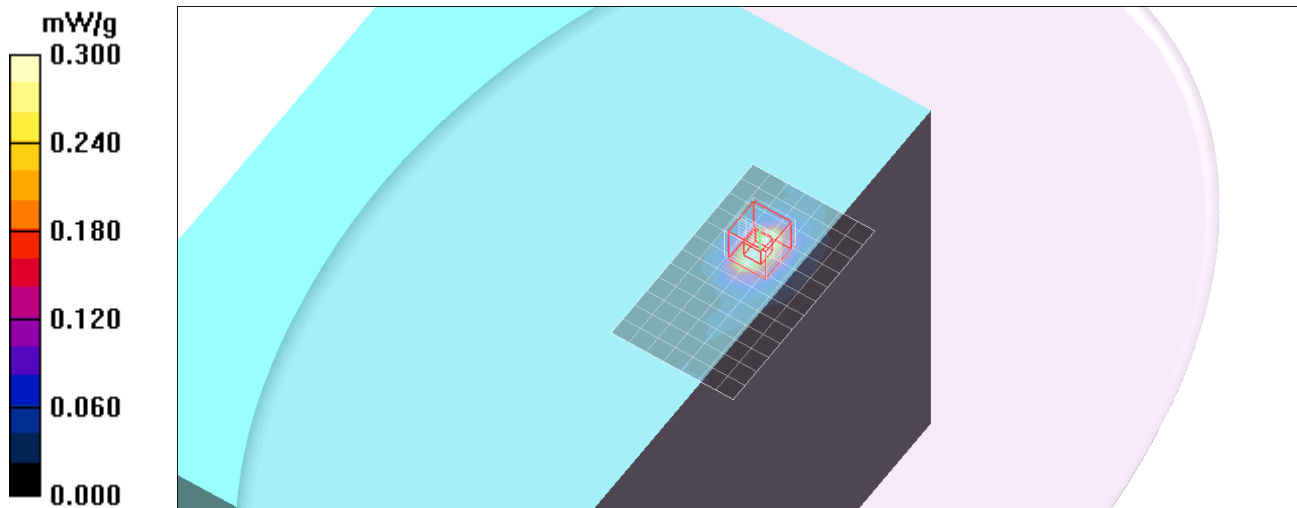
Reference Value = 9.19 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.844 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.073 mW/g

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

Maximum value of SAR (measured) = 0.419 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.8 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.13$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 157_Aux Ant/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.682 mW/g

802.11a_Ch 157_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

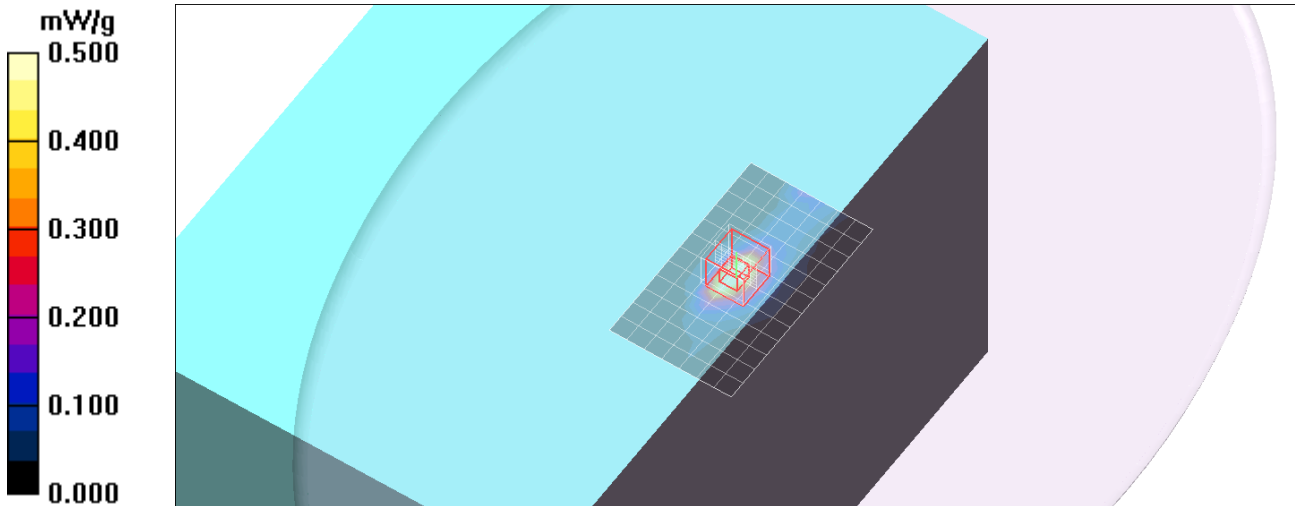
Reference Value = 11.5 V/m; Power Drift = -0.208 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.120 mW/g

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

Maximum value of SAR (measured) = 0.623 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.8 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5795 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.14$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11n HT40_Ch 159_Main/Aux Ant/Area Scan (8x17x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.694 mW/g

802.11n HT40_Ch 159_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 11.6 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.135 mW/g

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

Maximum value of SAR (measured) = 0.707 mW/g

802.11n HT40_Ch 159_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

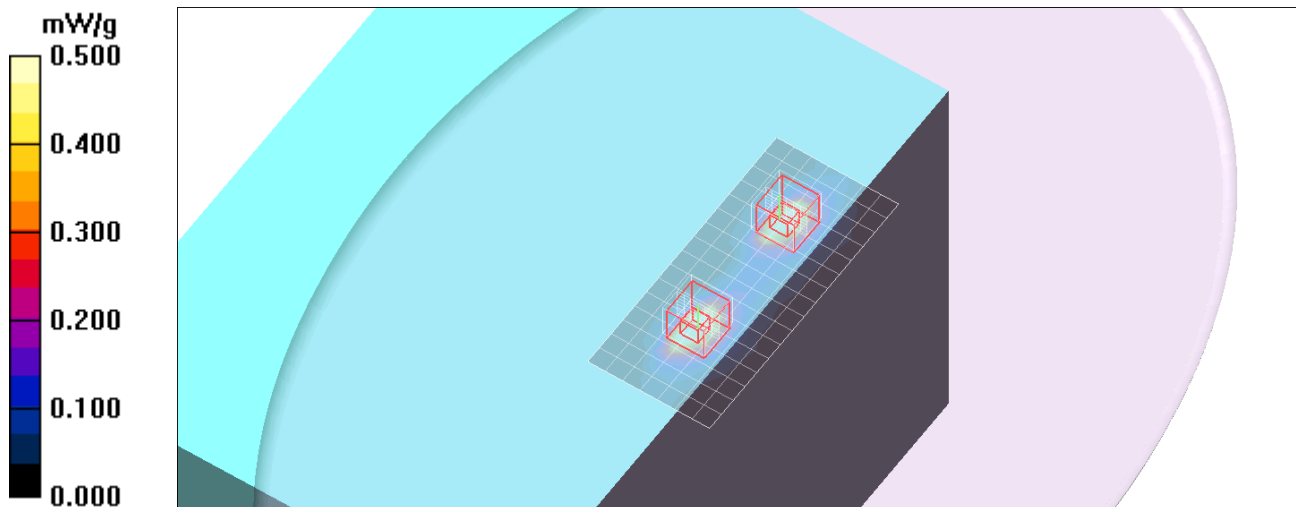
Reference Value = 11.6 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.132 mW/g

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

Maximum value of SAR (measured) = 0.683 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Lapheld_5.8 GHz

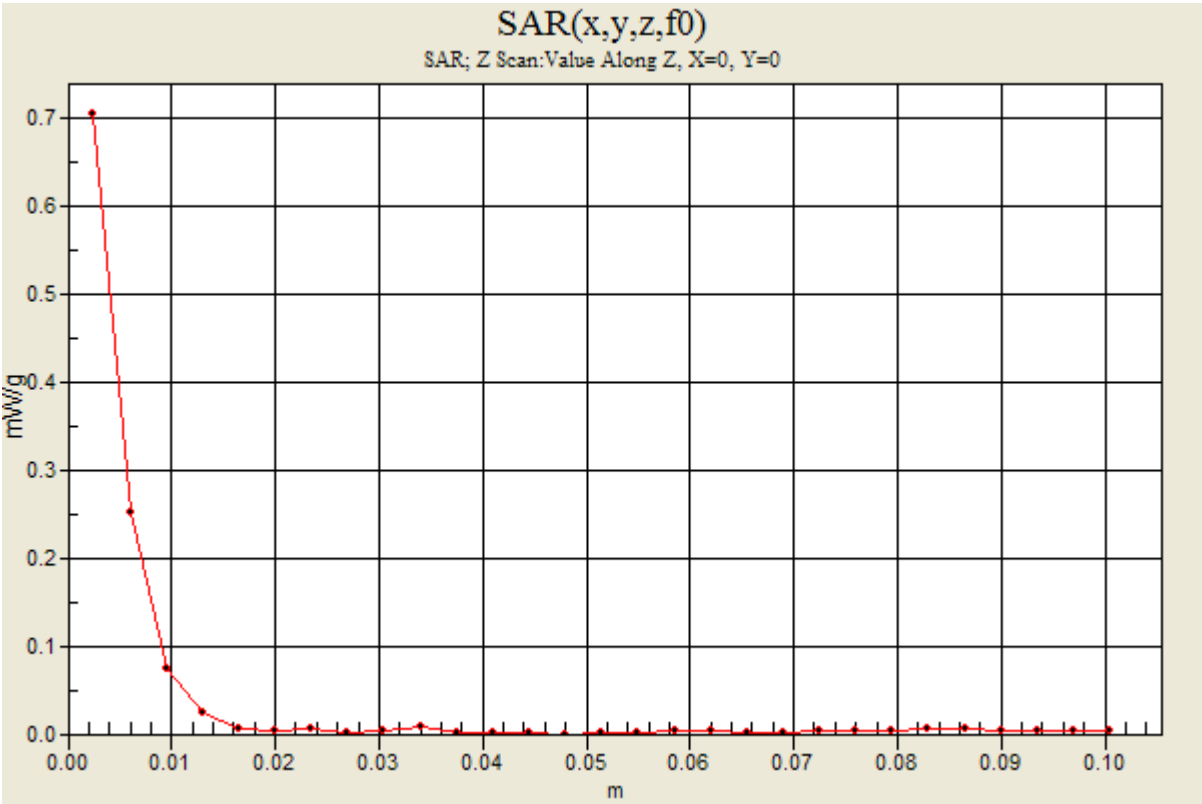
DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5795 MHz; Duty Cycle: 1:1

802.11n HT40_Ch 159_Main/Aux Ant/Z Scan (1x1x29): Measurement grid: dx=20mm, dy=20mm, dz=3.5mm

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

Maximum value of SAR (measured) = 0.704 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.8 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.11$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn427; Calibrated: 7/21/2010
 - Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 157_Main Ant/Area Scan (8x13x1):

Measurement grid: dx=10mm, dy=10mm
Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.013 mW/g

802.11a_Ch 157_Main Ant/Zoom Scan (7x7x9)/Cube 0:

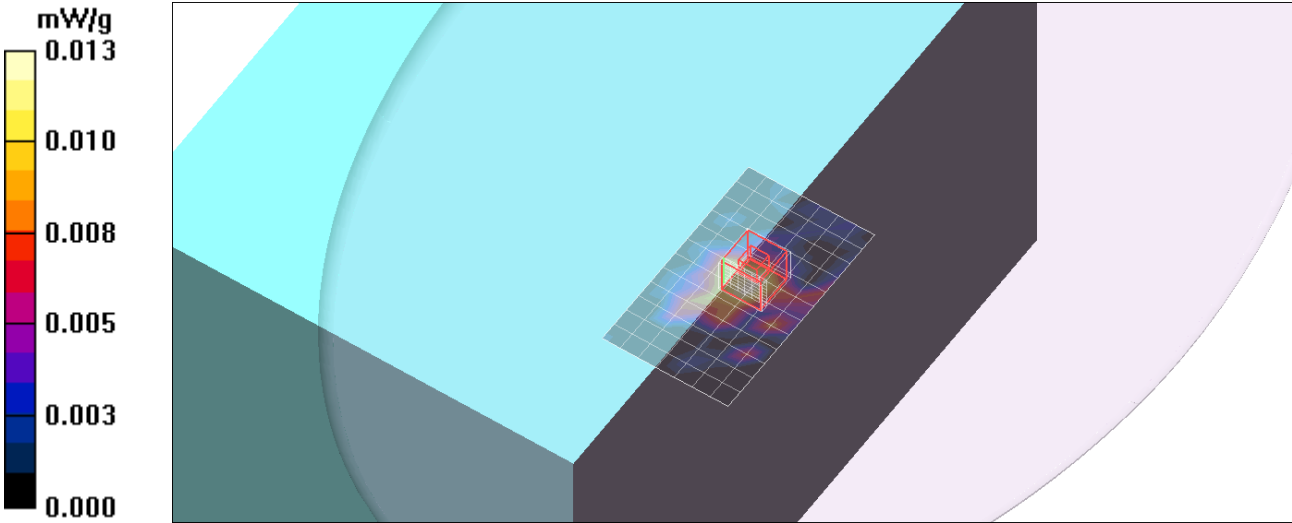
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 1.30 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 0.075 W/kg

SAR(1 g) = 0.00234 mW/g; SAR(10 g) = 0.000406 mW/g

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

Maximum value of SAR (measured) = 0.016 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.8 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.11$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11a_Ch 157_Aux Ant/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

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

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

802.11a_Ch 157_Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

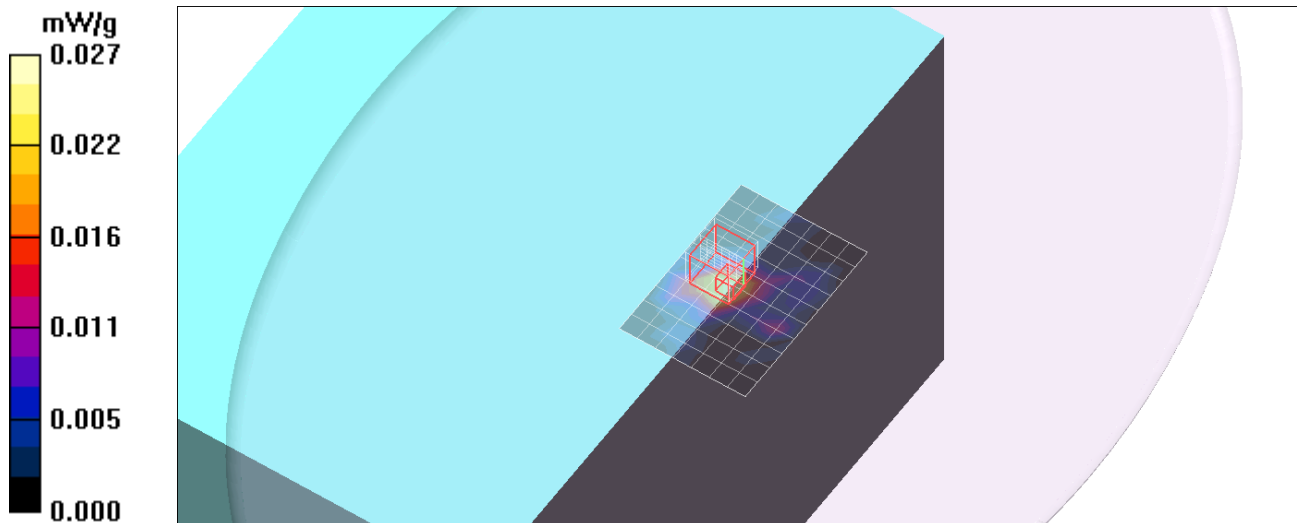
Reference Value = 2.23 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.000734 mW/g; SAR(10 g) = 6.69e-005 mW/g

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

Maximum value of SAR (measured) = 0.025 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

Nearby Person_5.8 GHz

DUT: Broadcom; Type: BCM943228HM4L; Serial: N/A

Communication System: 802.11abgn; Frequency: 5795 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.14$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

802.11n HT40_Ch 159_Main/Aux Ant/Area Scan (8x17x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.023 mW/g

802.11n HT40_Ch 159_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.04 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.057 W/kg

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00313 mW/g

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

Maximum value of SAR (measured) = 0.025 mW/g

802.11n HT40_Ch 159_Main/Aux Ant/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.04 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00266 mW/g

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

Maximum value of SAR (measured) = 0.022 mW/g

