

Test Laboratory: Compliance Certification Services Inc.

80211b Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012 W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

Bottom High CH11/Area Scan (7x21x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.416 mW/g

Bottom High CH11/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.523 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.816 W/kg

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.454 mW/g

Bottom High CH11/Zoom Scan (7x7x9)/Cube 1:

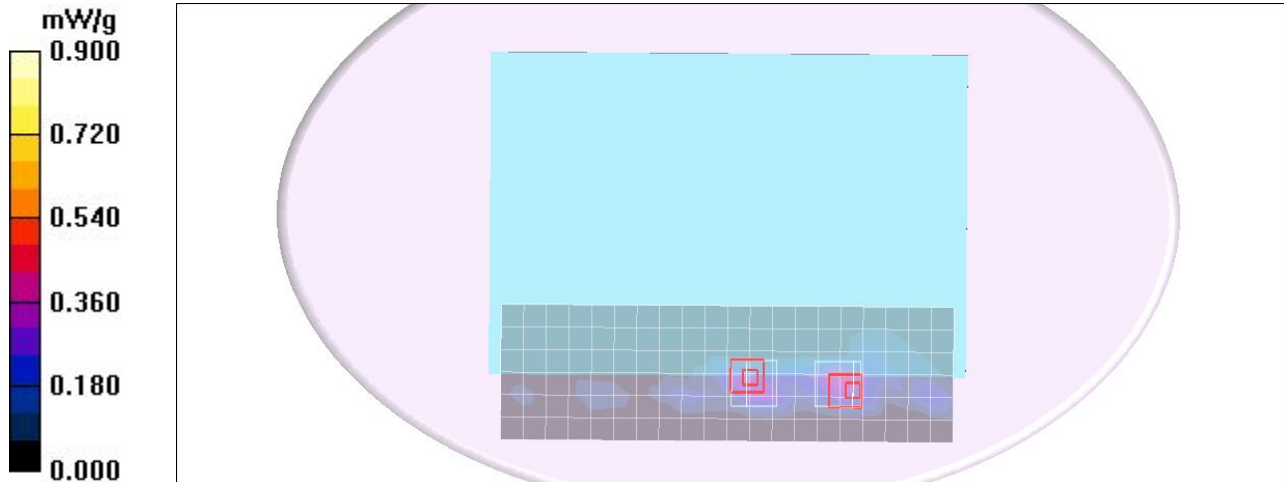
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.523 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.213 mW/g



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80211g Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012 W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Bottom Middle CH6/Area Scan (7x21x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.661 mW/g

Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.666 V/m; Power Drift = -0.086 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.171 mW/g
Maximum value of SAR (measured) = 0.720 mW/g

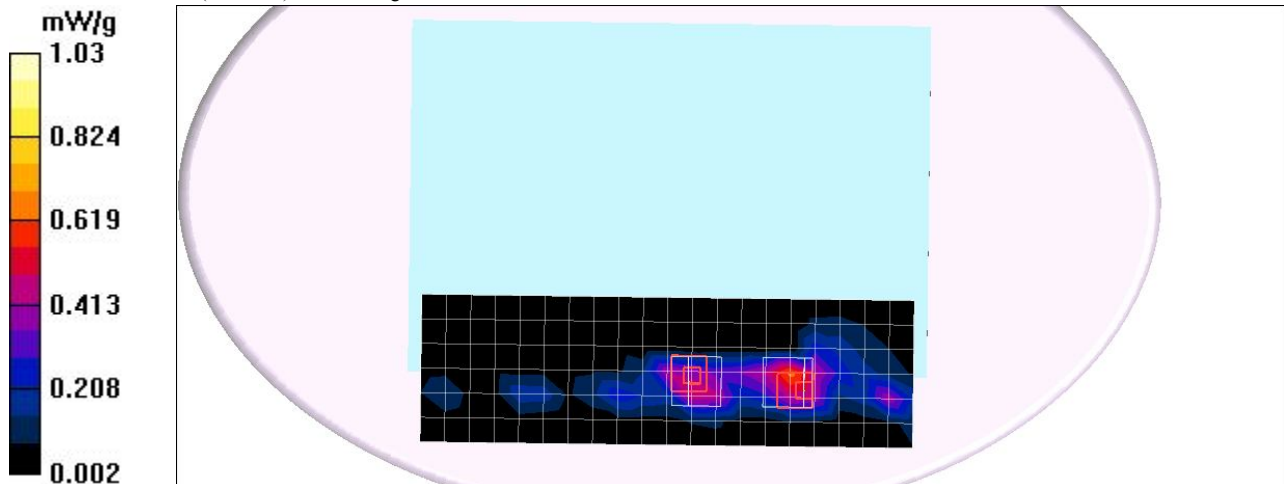
Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 1:

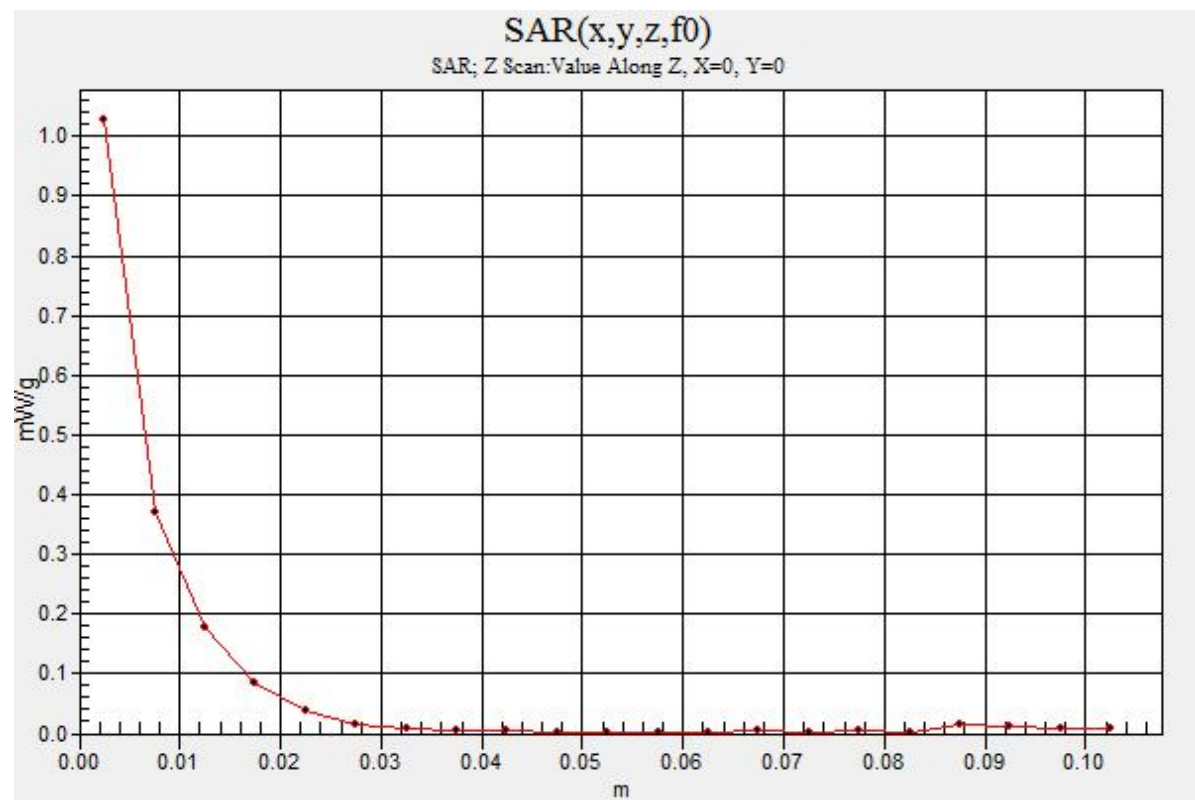
Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.666 V/m; Power Drift = -0.086 dB
Peak SAR (extrapolated) = 0.445 W/kg
SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.341 mW/g

Bottom Middle CH6/Z Scan (1x1x21):

Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 1.03 mW/g





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80211n20 Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11n WLAN HT20; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012 W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

NB Bottom Middle CH6/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.269 mW/g

NB Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.504 mW/g

NB Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 1:

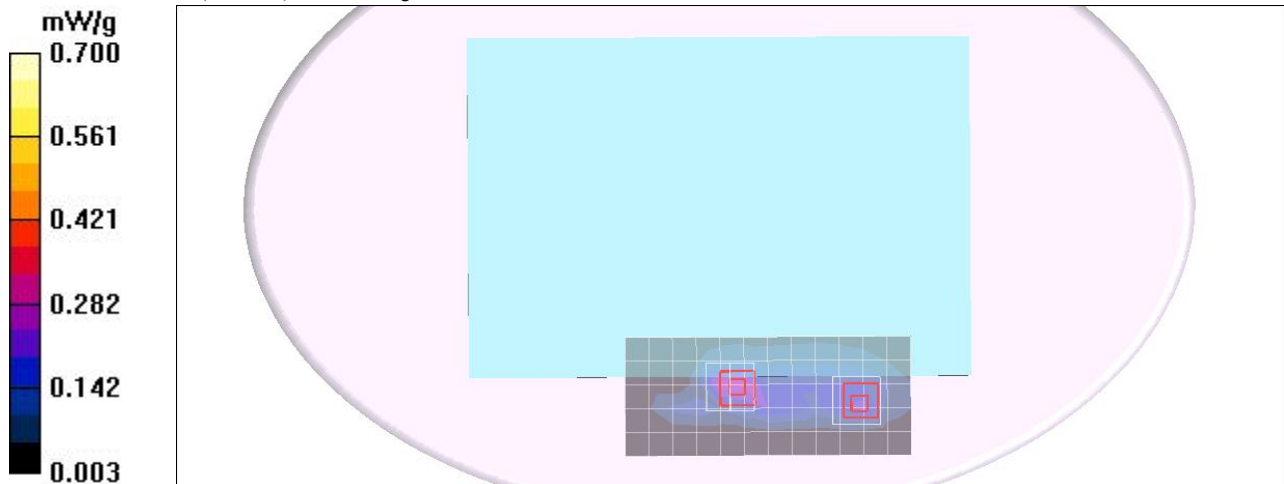
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.981 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 0.488 mW/g



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80211n40 Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

Bottom Middle CH4/Area Scan (6x12x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.213 mW/g

Bottom Middle CH4/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.088 mW/g

Maximum value of SAR (measured) = 0.259 mW/g

Bottom Middle CH4/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.056 mW/g

Maximum value of SAR (measured) = 0.195 mW/g

