

Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.221$ mho/m; $\epsilon_r = 50.201$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a/Ant 0/Ch 40/Area Scan (121x151x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.180 mW/g

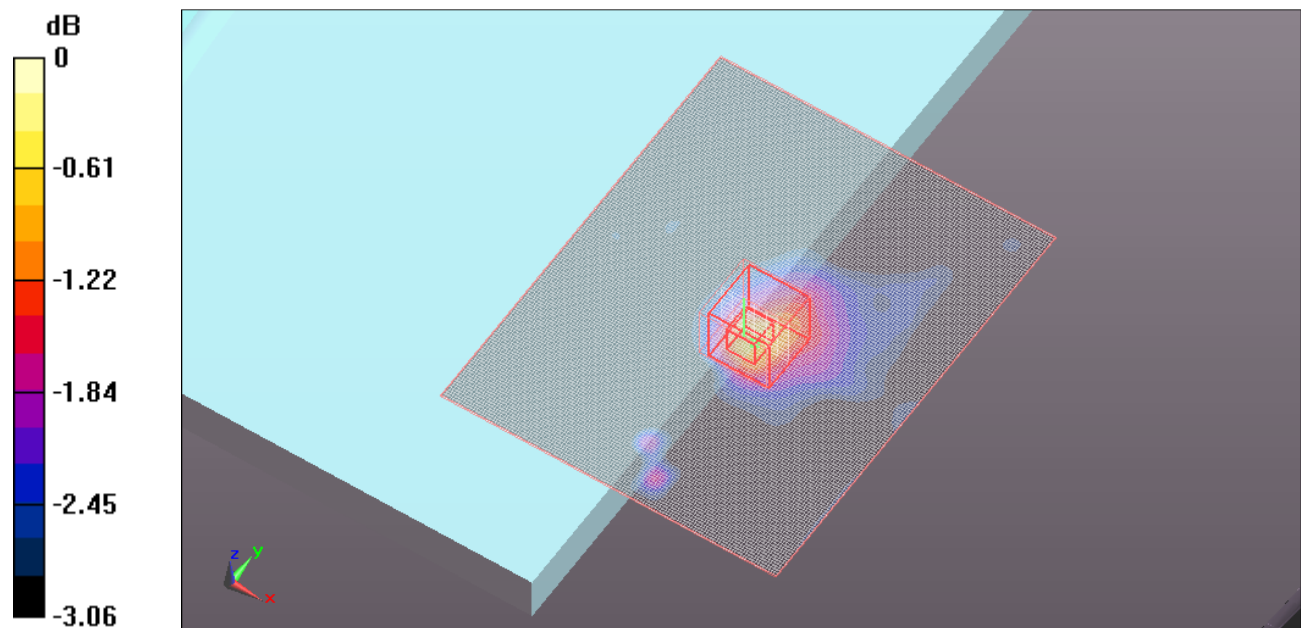
802.11a/Ant 0/Ch 40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.223 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.209 mW/g



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- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
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802.11a/Ant 1/Ch 40/Area Scan (121x151x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.186 mW/g

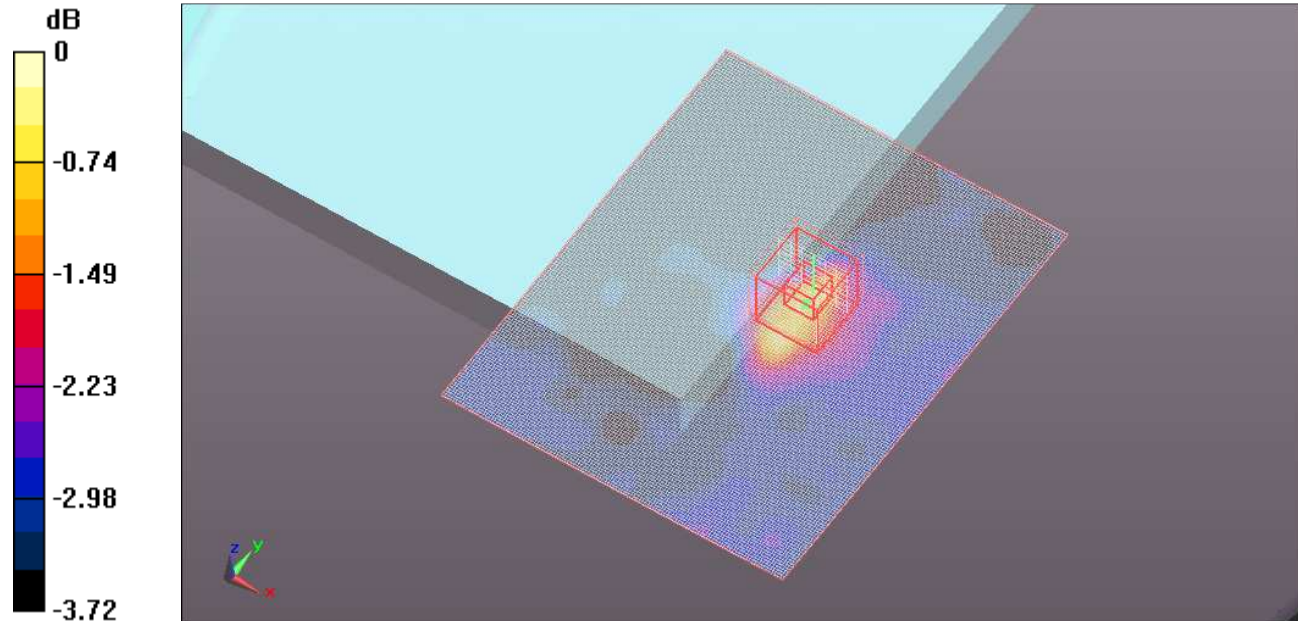
802.11a/Ant 1/Ch 40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.318 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.300 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.196 mW/g



0 dB = 0.200mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5180 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5180$ MHz; $\sigma = 5.189$ mho/m; $\epsilon_r = 50.229$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a/Ant 2/Ch 36/Area Scan (121x151x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.238 mW/g

802.11a/Ant 2/Ch 36/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.143 V/m; Power Drift = 0.0066 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.265 mW/g

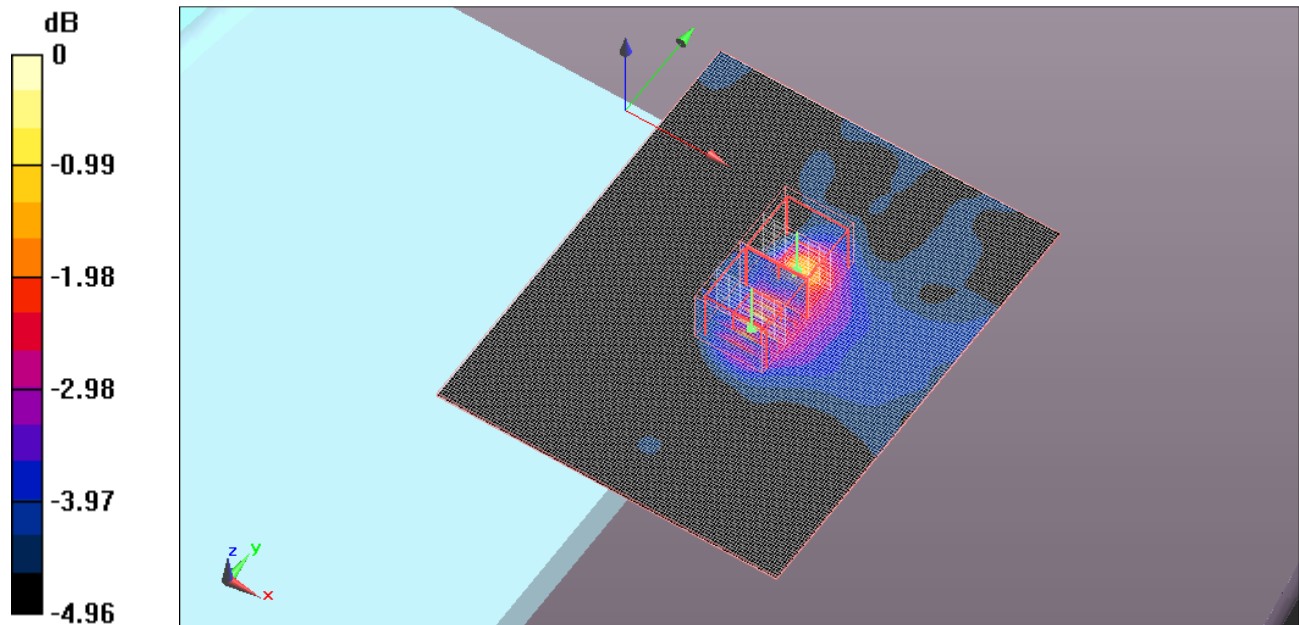
802.11a/Ant 2/Ch 36/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.143 V/m; Power Drift = 0.0066 dB

Peak SAR (extrapolated) = 0.525 W/kg

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.146 mW/g

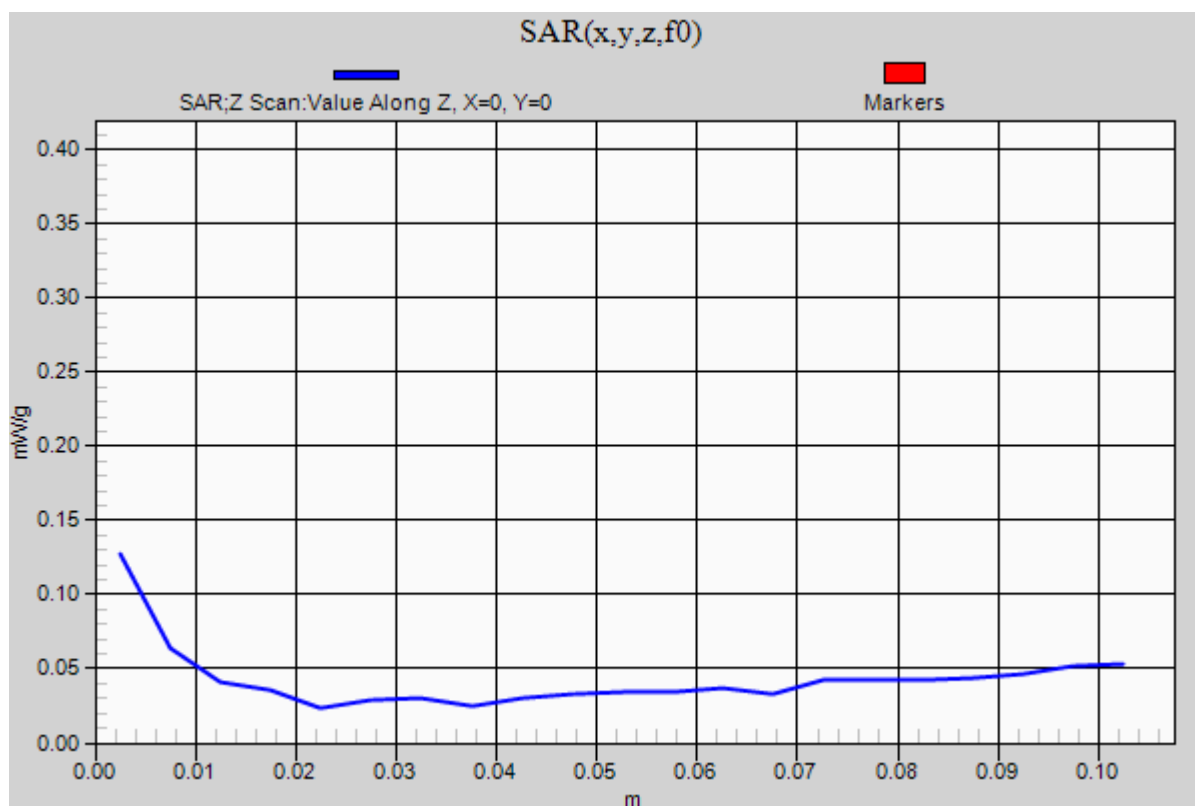
Maximum value of SAR (measured) = 0.311 mW/g



Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5180 MHz; Duty Cycle: 1:1

802.11a /Ant 2/Ch 36/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.127 mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5190 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5190$ MHz; $\sigma = 5.246$ mho/m; $\epsilon_r = 51.681$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

802.11n HT40/Ant 0/Ch 38/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.146 mW/g

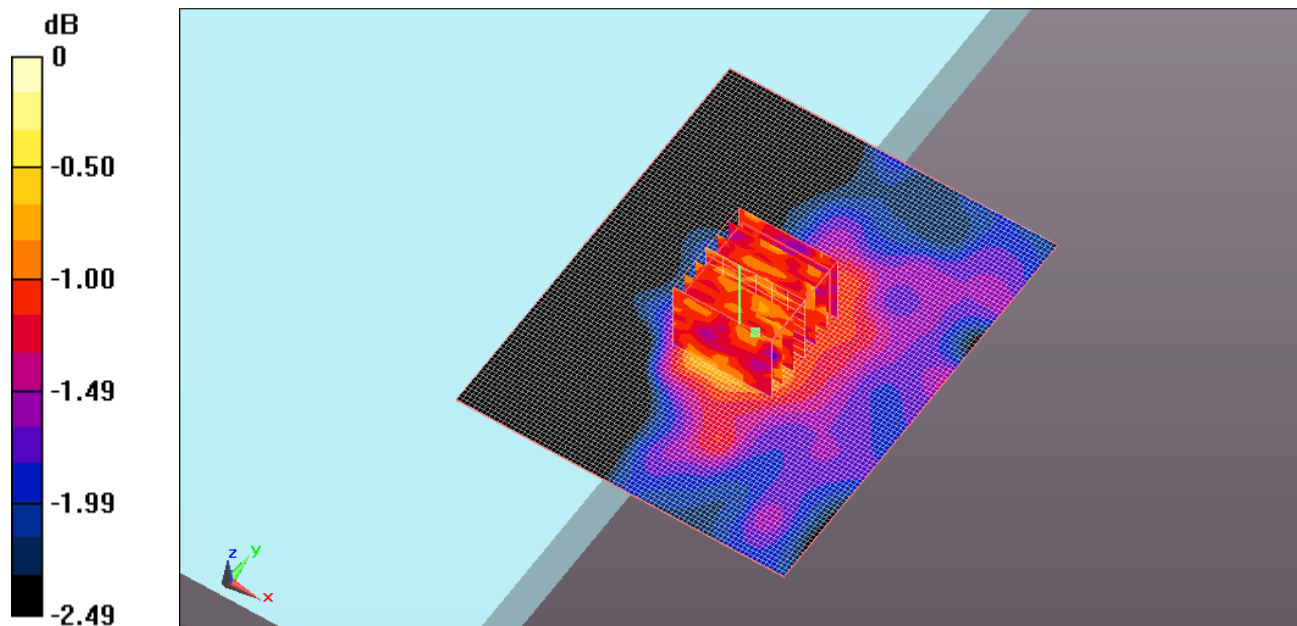
802.11n HT40/Ant 0/Ch 38/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.424 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.148 mW/g



0 dB = 0.150mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230$ MHz; $\sigma = 5.258$ mho/m; $\epsilon_r = 50.148$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11n HT40/Ant 1/Ch 46/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.165 mW/g

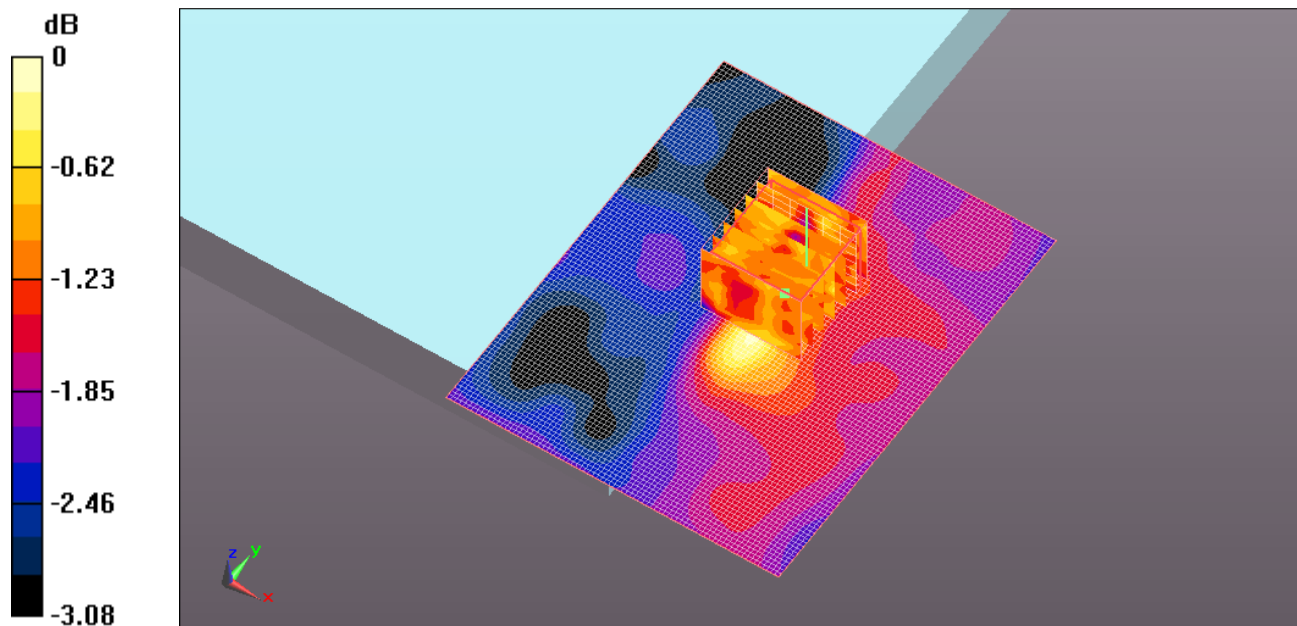
802.11n HT40/Ant 1/Ch 46/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.841 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.124 mW/g

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



0 dB = 0.160mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5190 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5190$ MHz; $\sigma = 5.206$ mho/m; $\epsilon_r = 50.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11n_Ant 2/Ch 38/Area Scan (121x151x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.229 mW/g

802.11n_Ant 2/Ch 38/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.246 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.223 mW/g; SAR(10 g) = 0.152 mW/g

Maximum value of SAR (measured) = 0.322 mW/g

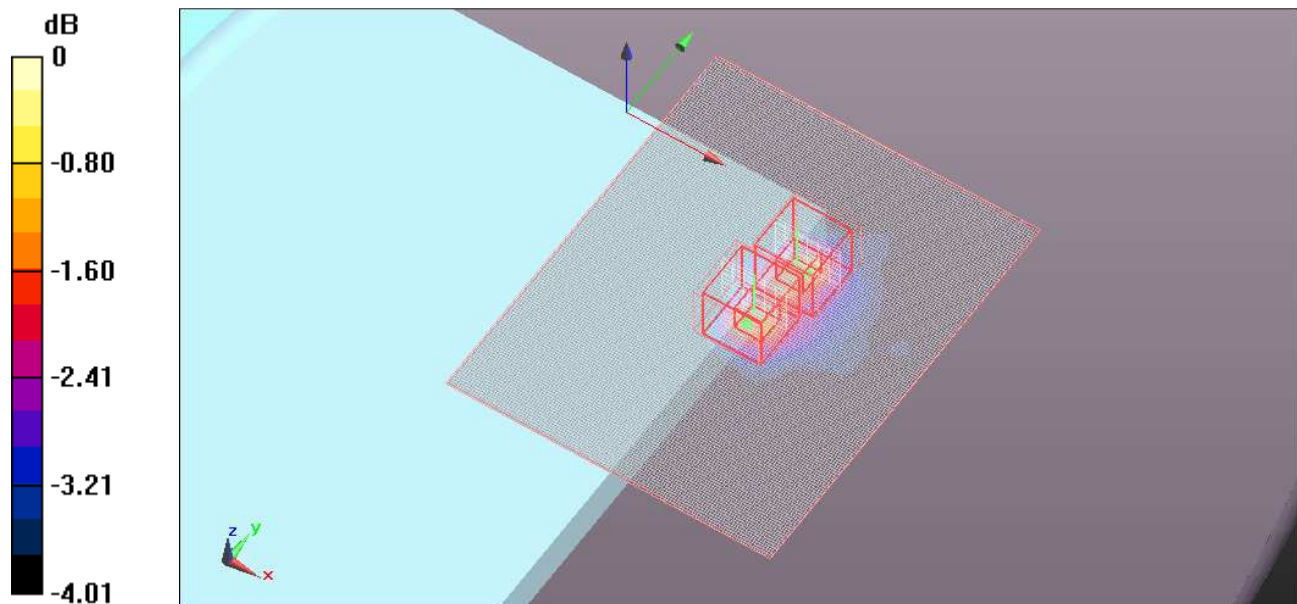
802.11n_Ant 2/Ch 38/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.246 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.278 mW/g

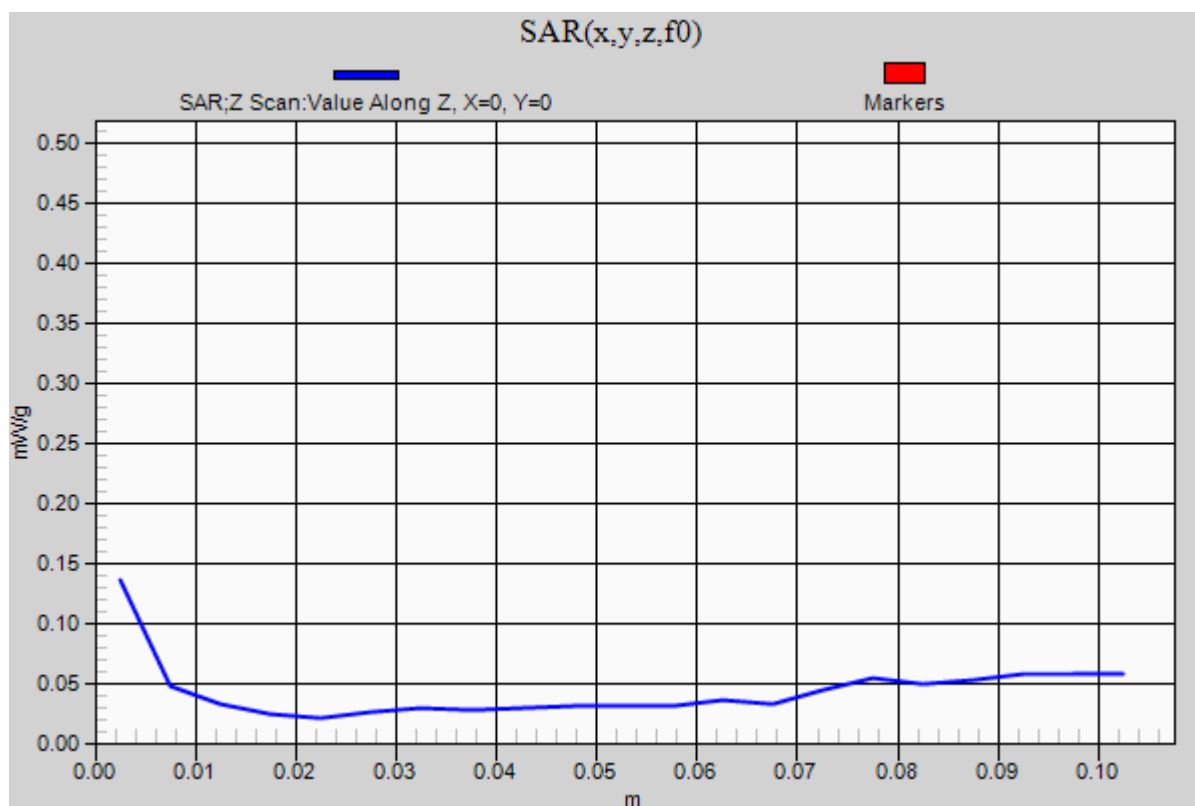


0 dB = 0.280mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5190 MHz; Duty Cycle: 1:1

802.11n_Ant 2/Ch 38/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.137 mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.082$ mho/m; $\epsilon_r = 50.588$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(3.58, 3.58, 3.58); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a Ant 0/Ch 157/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.234 mW/g

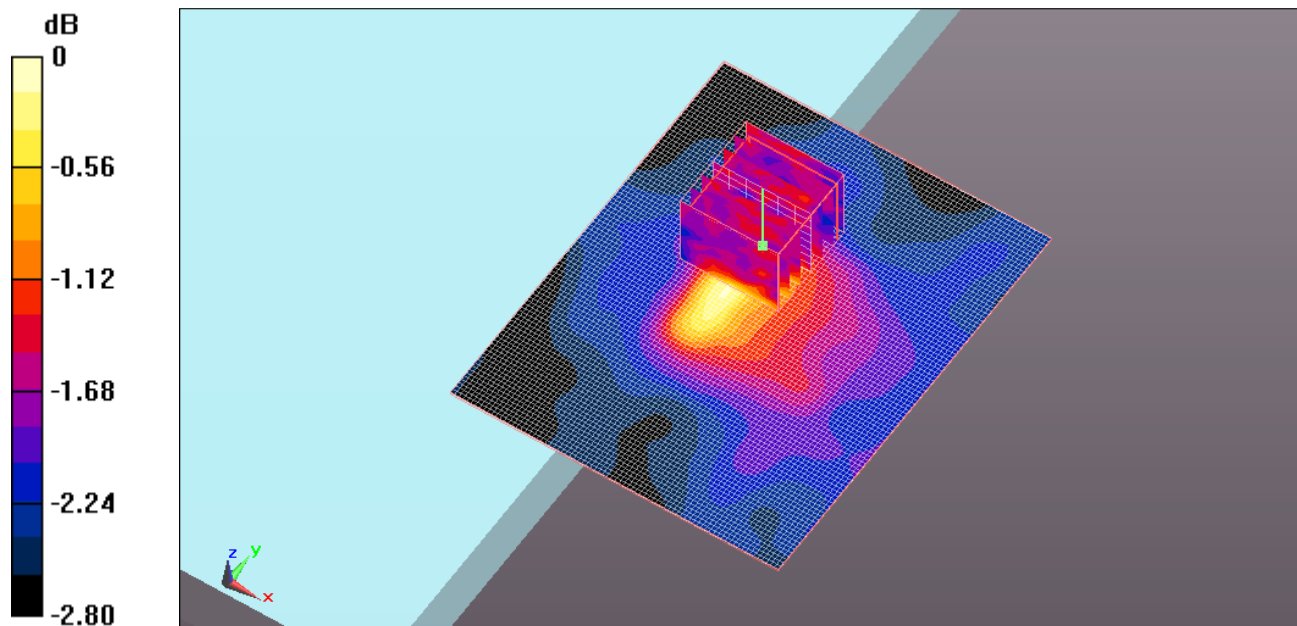
802.11a Ant 0/Ch 157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.396 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.172 mW/g

Maximum value of SAR (measured) = 0.236 mW/g



0 dB = 0.240mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.082$ mho/m; $\epsilon_r = 50.588$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(3.58, 3.58, 3.58); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a Ant 1/Ch 157/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.287 mW/g

802.11a Ant 1/Ch 157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.316 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.285 mW/g

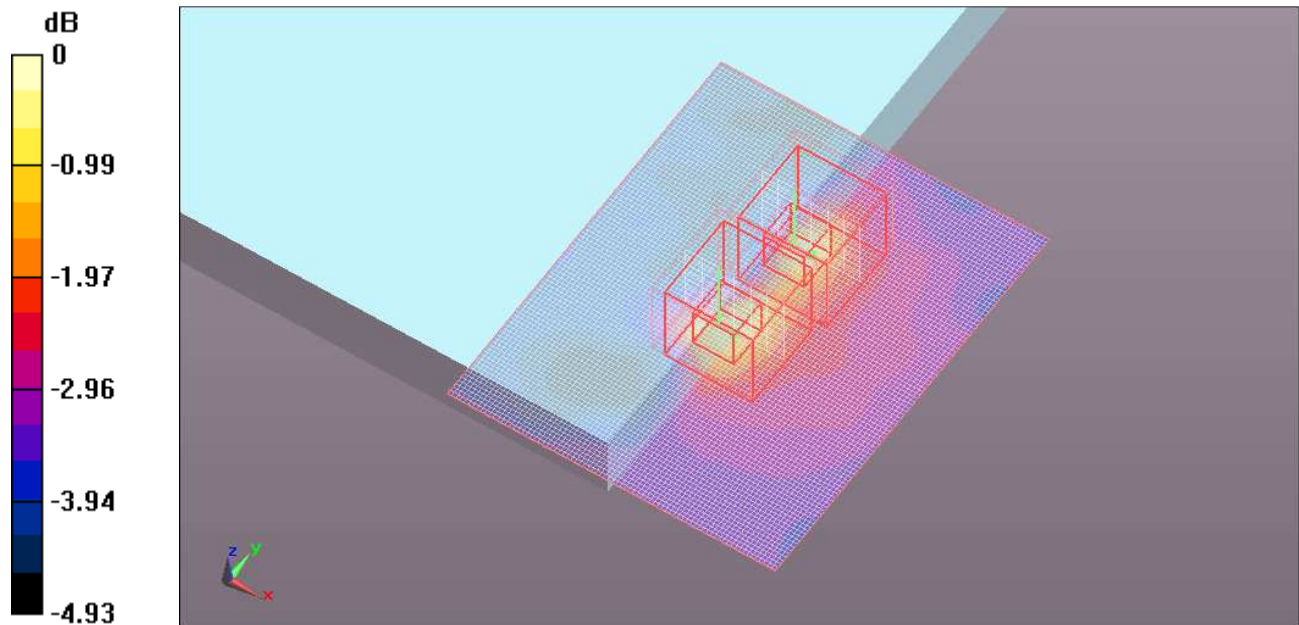
802.11a Ant 1/Ch 157/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.316 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.298 mW/g

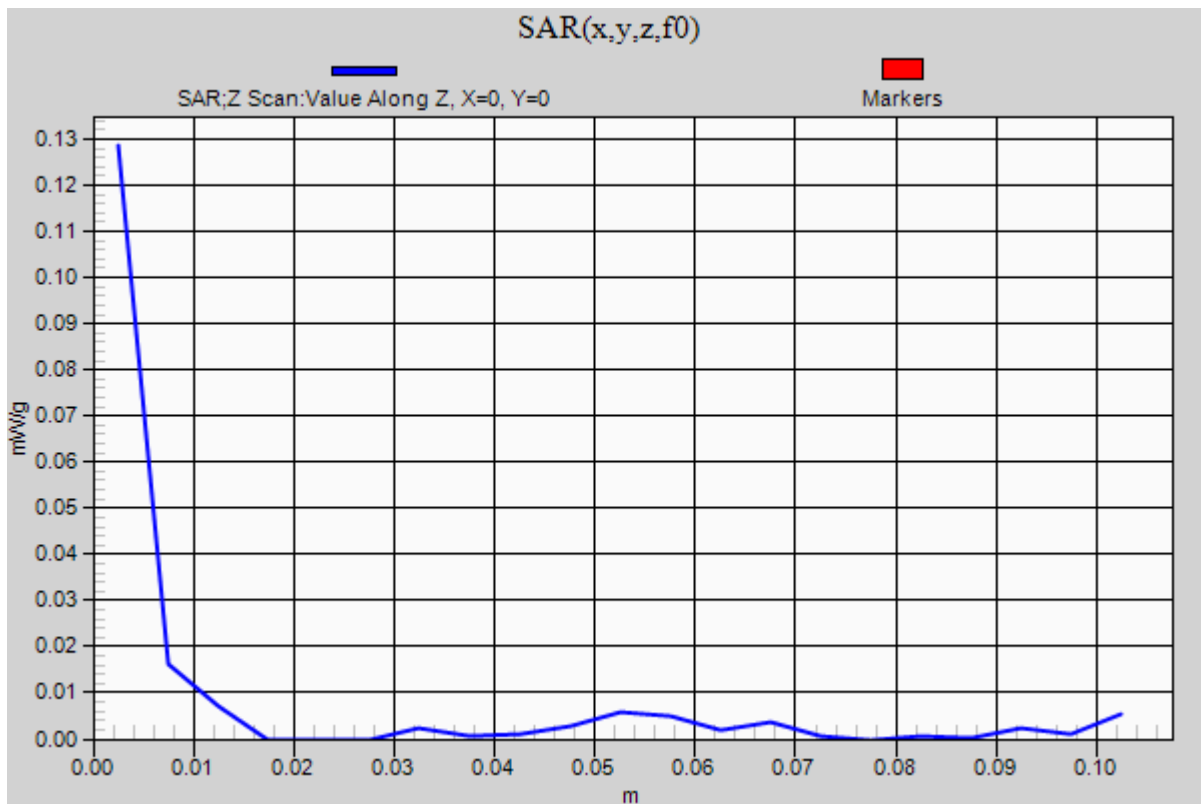


0 dB = 0.300mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1

802.11a Ant 1/Ch 157/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.129 mW/g

Test Laboratory: UL CCS SAR Lab B

Body 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5785$ MHz; $\sigma = 6.082$ mho/m; $\epsilon_r = 50.588$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(3.58, 3.58, 3.58); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a Ant 2/Ch 157/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.192 mW/g

802.11a Ant 2/Ch 157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.889 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.207 mW/g

