

## 15.2 SAR test plots for WLAN 2.4GHz band

### WLAN 2.4G Main Ant Edge1 11b 1Mbps 0mm 2437MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.932$  S/m;  $\epsilon_r = 52.711$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (51x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0265 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.649 V/m; Power Drift = -0.04 dB

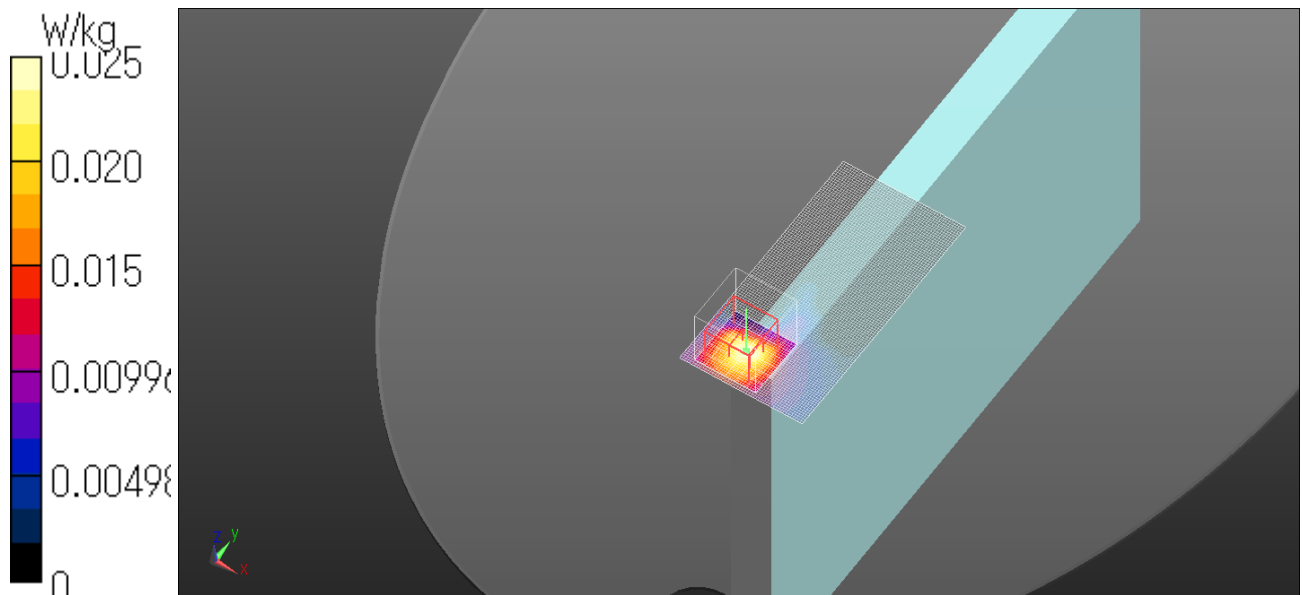
Peak SAR (extrapolated) = 0.0330 W/kg

**SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00728 W/kg**

Maximum value of SAR (measured) = 0.0249 W/kg

Date: 2017/09/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Main Ant Edge3 11b 1Mbps 0mm 2437MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.932$  S/m;  $\epsilon_r = 52.711$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (51x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.123 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.101 V/m; Power Drift = 0.03 dB

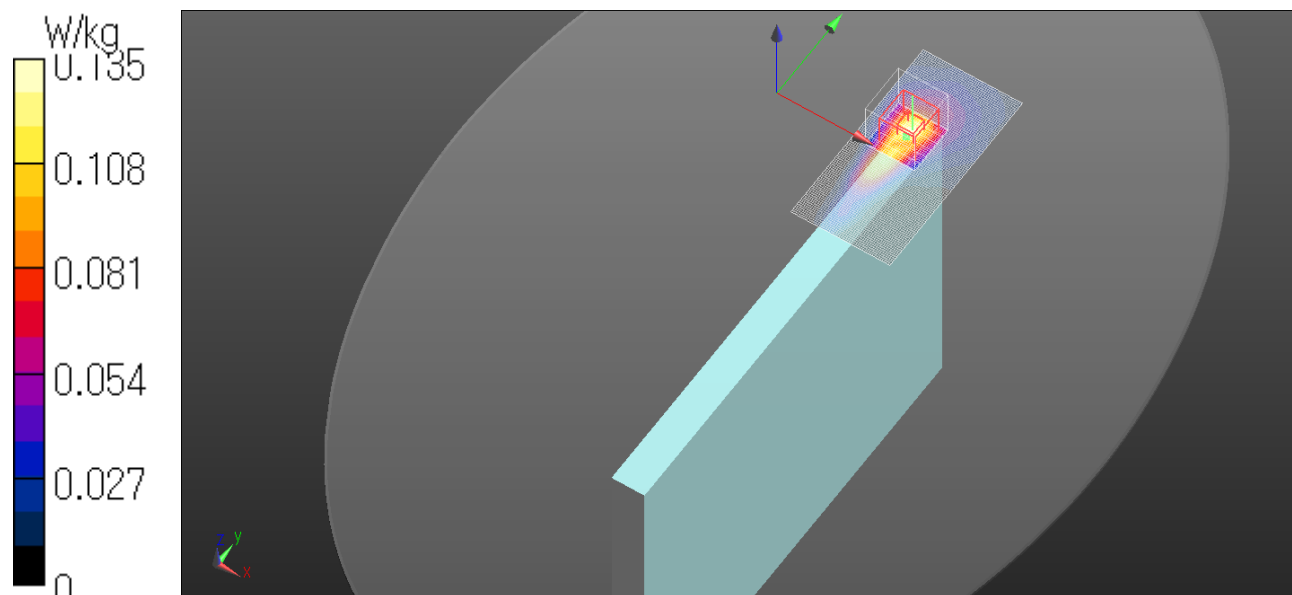
Peak SAR (extrapolated) = 0.199 W/kg

**SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.042 W/kg**

Maximum value of SAR (measured) = 0.135 W/kg

Date: 2017/09/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Main Ant Edge4 11b 1Mbps 0mm 2437MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.932$  S/m;  $\epsilon_r = 52.711$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (51x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.32 V/m; Power Drift = 0.09 dB

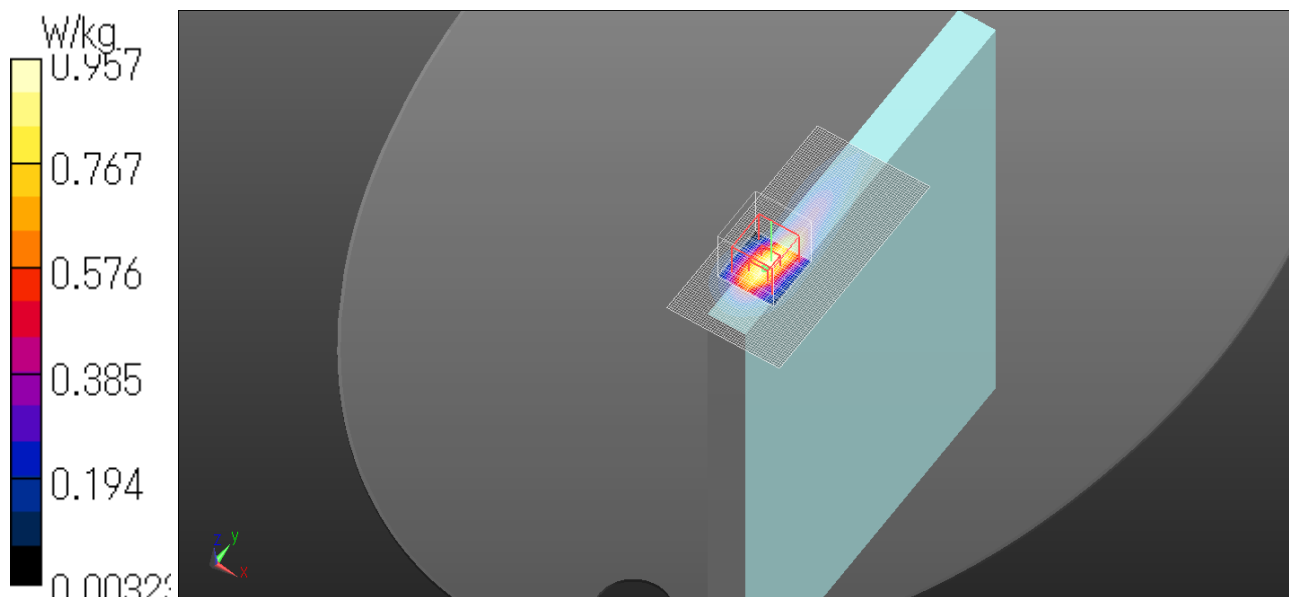
Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 0.957 W/kg

Date: 2017/09/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Main Ant Rear 11b 1Mbps 0mm 2437MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.932$  S/m;  $\epsilon_r = 52.711$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (121x61x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.442 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.41 V/m; Power Drift = 0.03 dB

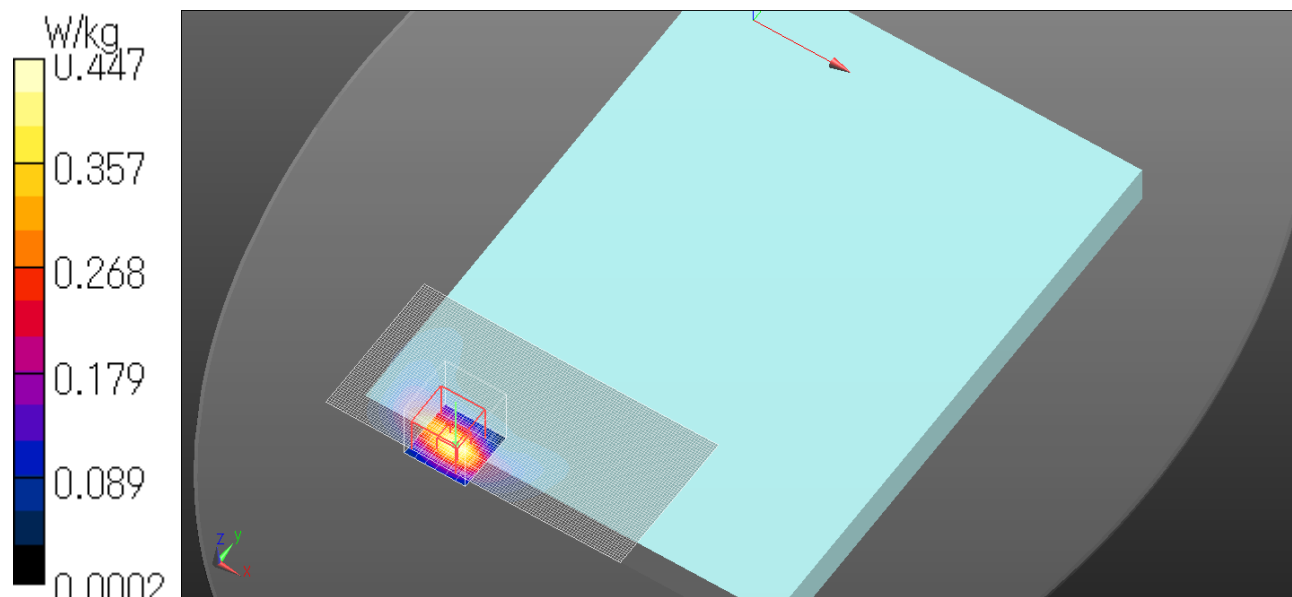
Peak SAR (extrapolated) = 0.641 W/kg

**SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.127 W/kg**

Maximum value of SAR (measured) = 0.447 W/kg

Date: 2017/09/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Aux Ant Edge1 11b 1Mbps 0mm 2412MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.867$  S/m;  $\epsilon_r = 52.744$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (71x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0154 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.695 V/m; Power Drift = -0.20 dB

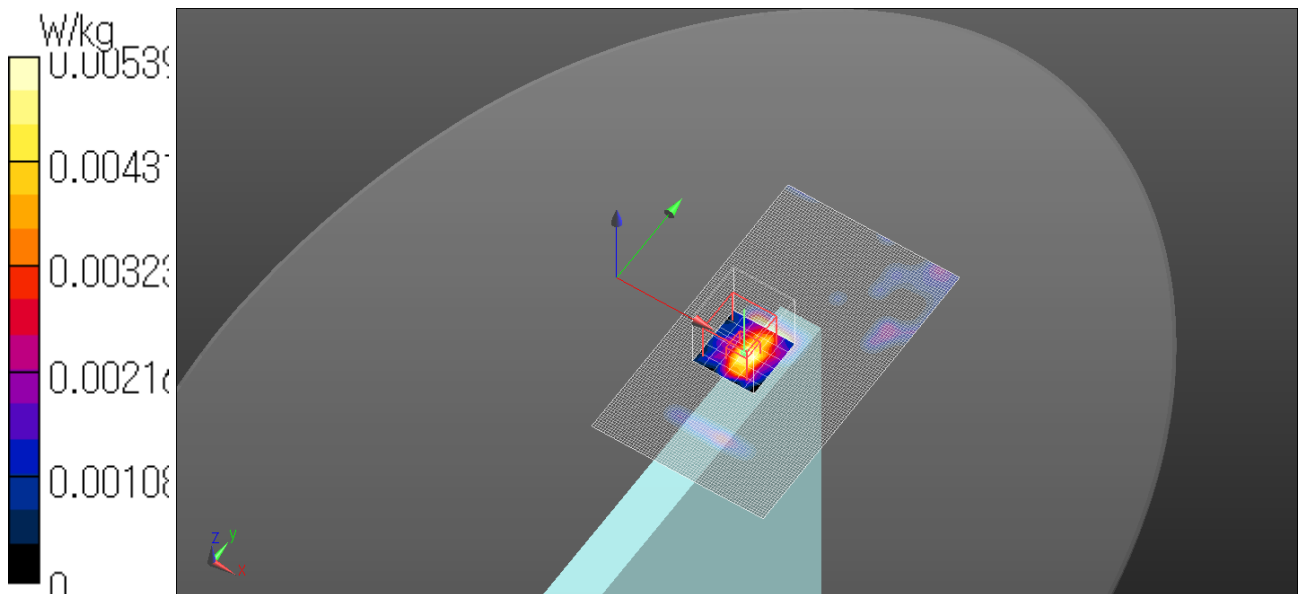
Peak SAR (extrapolated) = 0.0100 W/kg

**SAR(1 g) = 0.00285 W/kg; SAR(10 g) = 0.000676 W/kg**

Maximum value of SAR (measured) = 0.00539 W/kg

Date: 2017/09/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Aux Ant Edge2 11b 1Mbps 0mm 2412MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.867$  S/m;  $\epsilon_r = 52.744$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (71x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.29 V/m; Power Drift = -0.07 dB

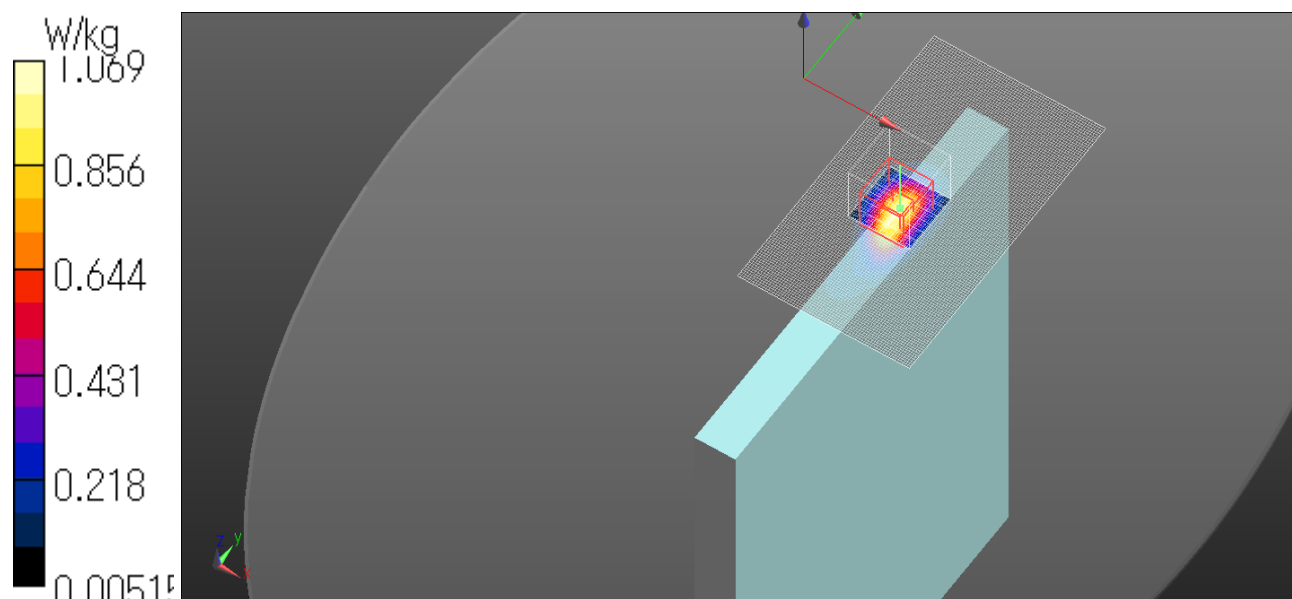
Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.333 W/kg**

Maximum value of SAR (measured) = 1.07 W/kg

Date: 2017/09/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Aux Ant Edge3 11b 1Mbps 0mm 2412MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.867$  S/m;  $\epsilon_r = 52.744$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (71x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.278 V/m; Power Drift = -0.02 dB

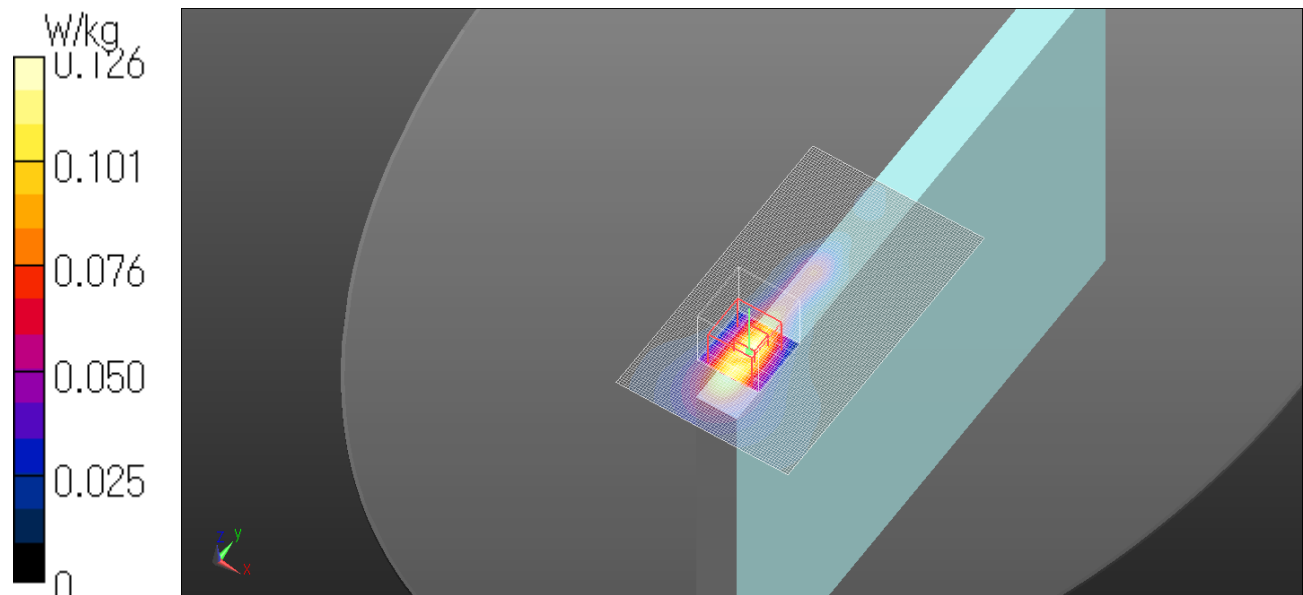
Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.041 W/kg**

Maximum value of SAR (measured) = 0.126 W/kg

Date: 2017/09/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 2.4G Aux Ant Rear 11b 1Mbps 0mm 2412MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.867$  S/m;  $\epsilon_r = 52.744$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (111x61x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.309 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.07 V/m; Power Drift = -0.02 dB

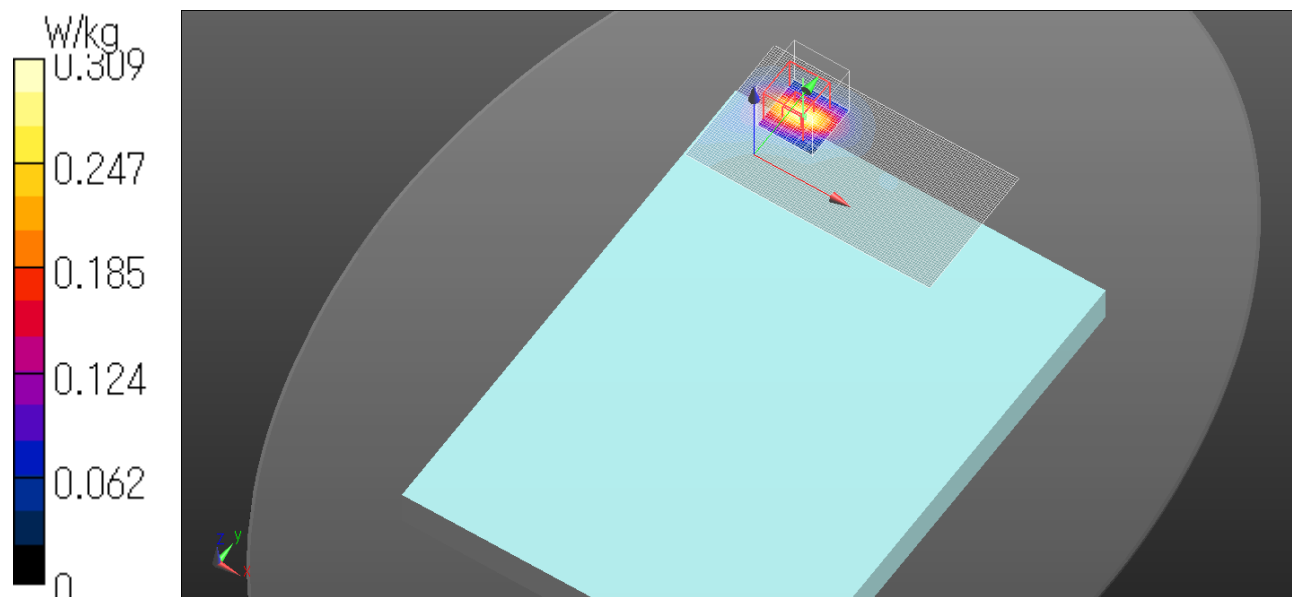
Peak SAR (extrapolated) = 0.434 W/kg

**SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.089 W/kg**

Maximum value of SAR (measured) = 0.309 W/kg

Date: 2017/09/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.





**WLAN 2.4G Aux Ant Edge2 with Stylus pen 11b 1Mbps 0mm 2412MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.867$  S/m;  $\epsilon_r = 52.744$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.59, 7.59, 7.59); Calibrated: 2016/12/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (71x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.727 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.13 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.223 W/kg**

Maximum value of SAR (measured) = 0.748 W/kg

Date: 2017/09/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

