

## 15.6 SAR Test Plots for Bluetooth

### Bluetooth Aux Ant Edge1 DH5 0mm 2441MHz

Communication System: UID 0, Bluetooth (0); Communication System Band: DH5; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.906$  S/m;  $\epsilon_r = 52.656$ ;  $\rho = 1000$  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

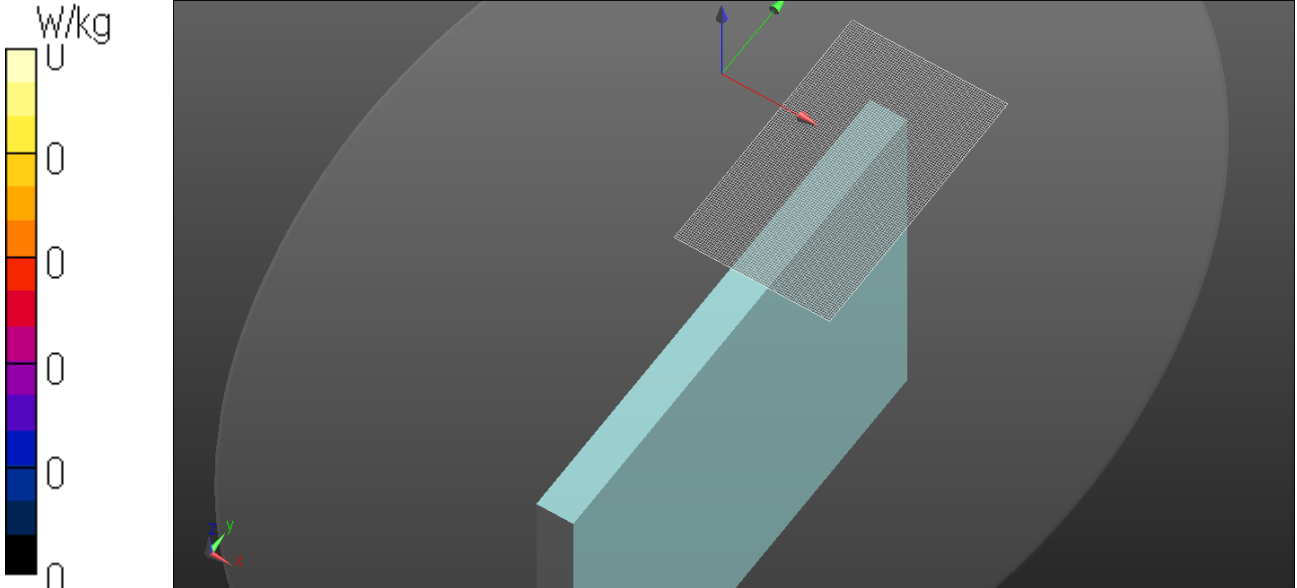
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0 W/kg

Date: 2017/09/20

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



**Bluetooth Aux Ant Edge2 DH5 0mm 2441MHz**

Communication System: UID 0, Bluetooth (0); Communication System Band: DH5; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.906$  S/m;  $\epsilon_r = 52.656$ ;  $\rho = 1000$  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) = 0.441 W/kg

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

Reference Value = 14.59 V/m; Power Drift = -0.07 dB

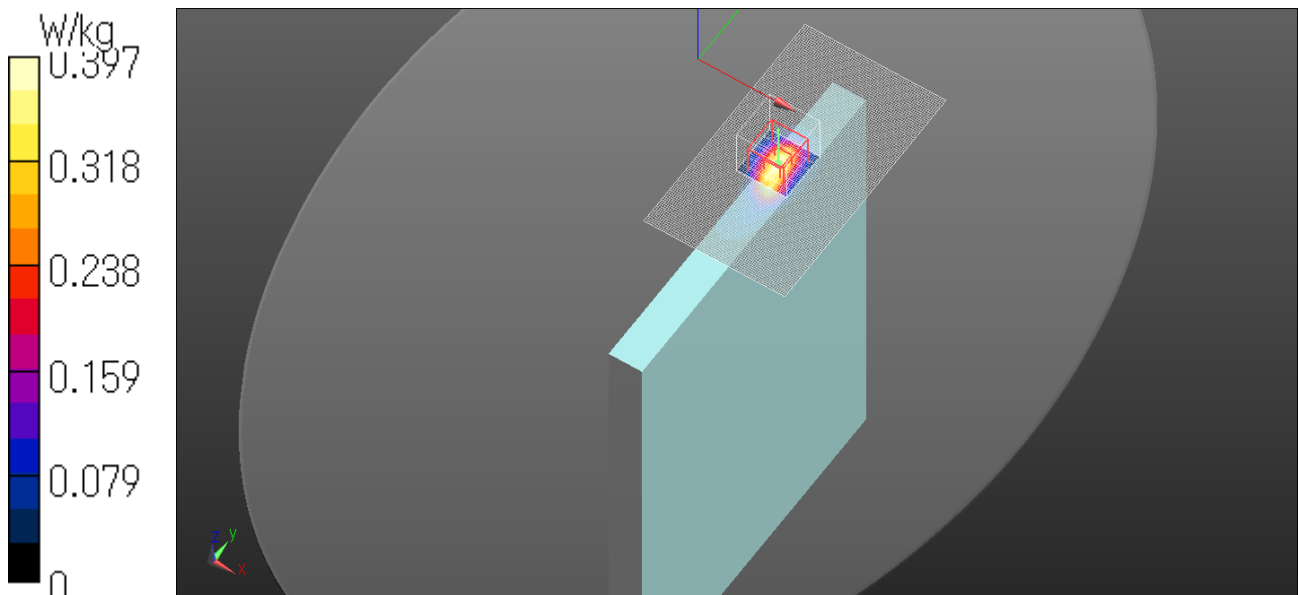
Peak SAR (extrapolated) = 0.539 W/kg

**SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.120 W/kg**

Maximum value of SAR (measured) = 0.397 W/kg

Date: 2017/09/20

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



**Bluetooth Aux Ant Edge3 DH5 0mm 2441MHz**

Communication System: UID 0, Bluetooth (0); Communication System Band: DH5; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.906$  S/m;  $\epsilon_r = 52.656$ ;  $\rho = 1000$  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) = 0.0489 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.090 V/m; Power Drift = 0.07 dB

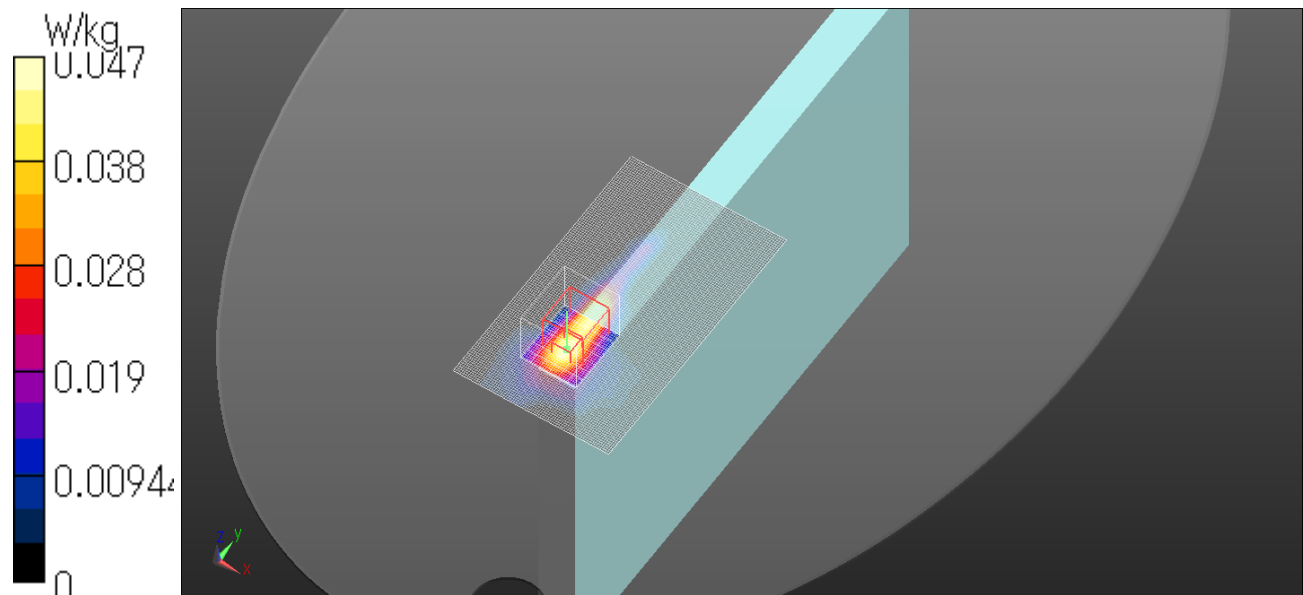
Peak SAR (extrapolated) = 0.0680 W/kg

**SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.013 W/kg**

Maximum value of SAR (measured) = 0.0472 W/kg

Date: 2017/09/20

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



**Bluetooth Aux Ant Rear DH5 0mm 2441MHz**

Communication System: UID 0, Bluetooth (0); Communication System Band: DH5; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.906$  S/m;  $\epsilon_r = 52.656$ ;  $\rho = 1000$  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 (171x61x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.102 W/kg

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

Reference Value = 7.852 V/m; Power Drift = 0.05 dB

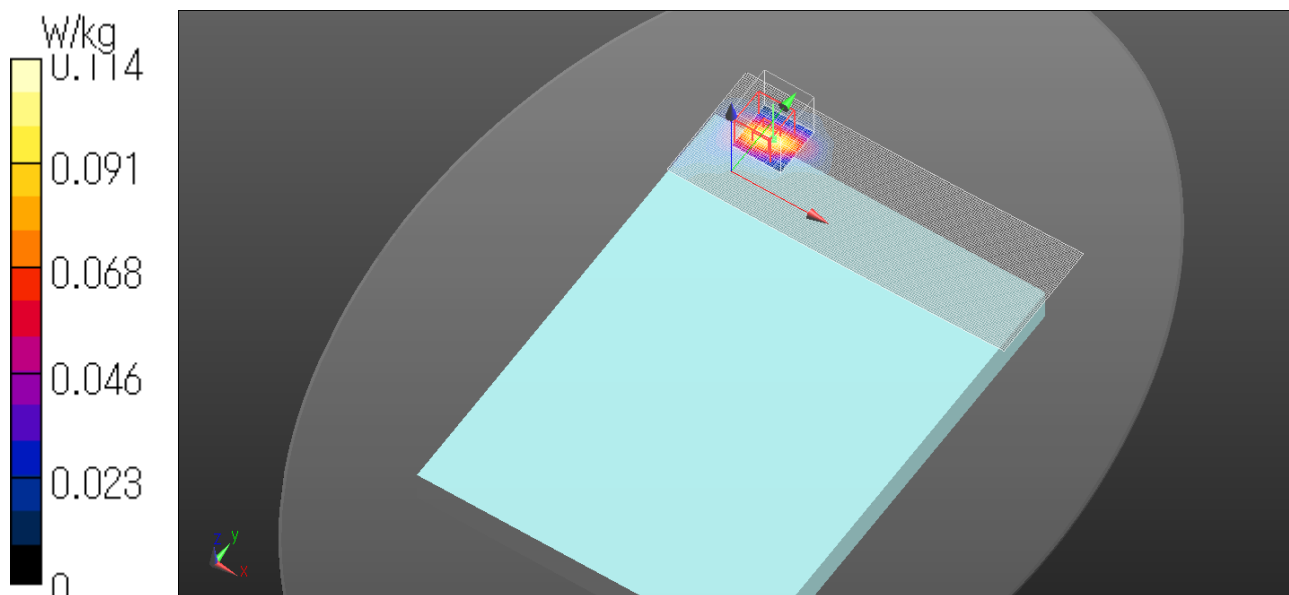
Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.034 W/kg**

Maximum value of SAR (measured) = 0.114 W/kg

Date: 2017/09/20

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



**Bluetooth Aux Ant Edge2 with Stylus pen DH5 0mm 2441MHz**

Communication System: UID 0, Bluetooth (0); Communication System Band: DH5; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.906$  S/m;  $\epsilon_r = 52.656$ ;  $\rho = 1000$  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) = 0.260 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 11.73 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.353 W/kg

**SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.074 W/kg**

Maximum value of SAR (measured) = 0.256 W/kg

Date: 2017/09/20

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

