

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCG-A2698; Type: Wireless Earbud; Serial: HM6HV17318JP

Communication System: UID:10035 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2441.0$ MHz; $\text{cond} = 1.86$ S/m; $\text{perm} = 38.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/14/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.0.0.116

Mode: Bluetooth, Head SAR, Ch.39, 1Mbps, Ear-tip Side, Right Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=2.1$ mm, $dy=2.1$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

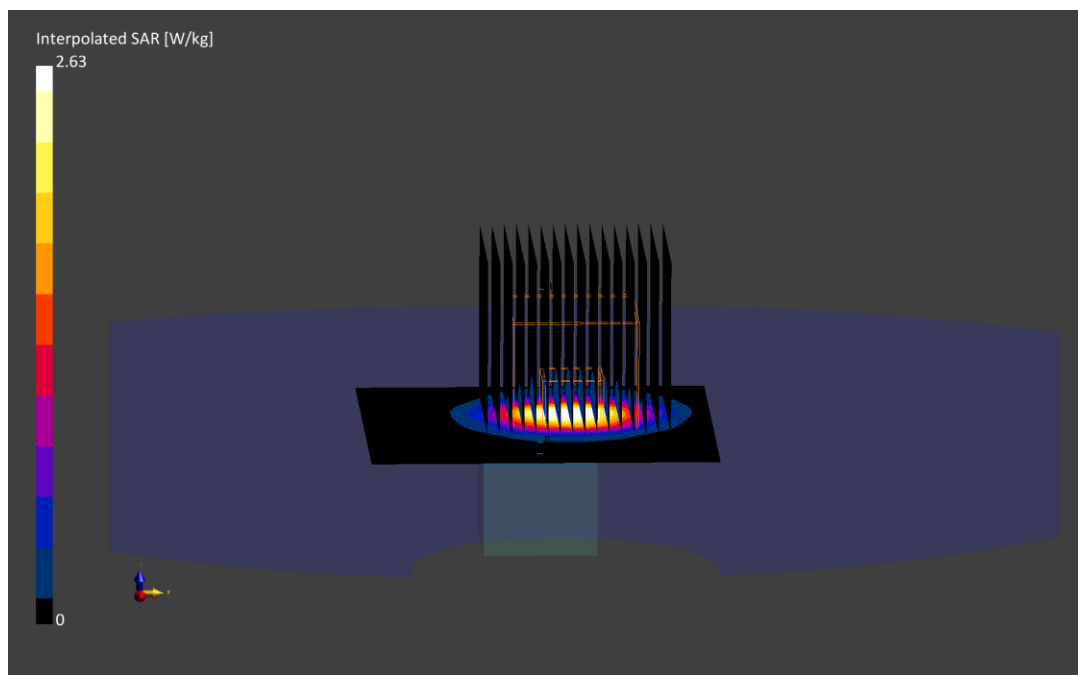
Reference Value = 0.52 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.64 W/kg

SAR (1 g) = 0.497 W/kg

Smallest distance from peaks to all points 3 dB below is 2.4 mm

Ratio of SAR at M2 to SAR at M1 = 42.3 %



ELEMENT

DUT: BCG-A2698; Type: Wireless Earbud; Serial: HM6HV11618JP

Communication System: UID:10035 - CAA, CW; MAIA: Y; Frequency: 5245.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5245.0$ MHz; $\text{cond} = 4.53$ S/m; $\text{perm} = 35.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/26/2022; Ambient Temp: 20.9°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7638; ConvF:(5.59,5.59,5.59); Calibrated: 2022-03-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1408; Calibrated: 2022-03-21

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.0.2.136

Mode: NB UNII-1, Head SAR, High Ch., 1Mbps, Ear-tip Side, Right Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

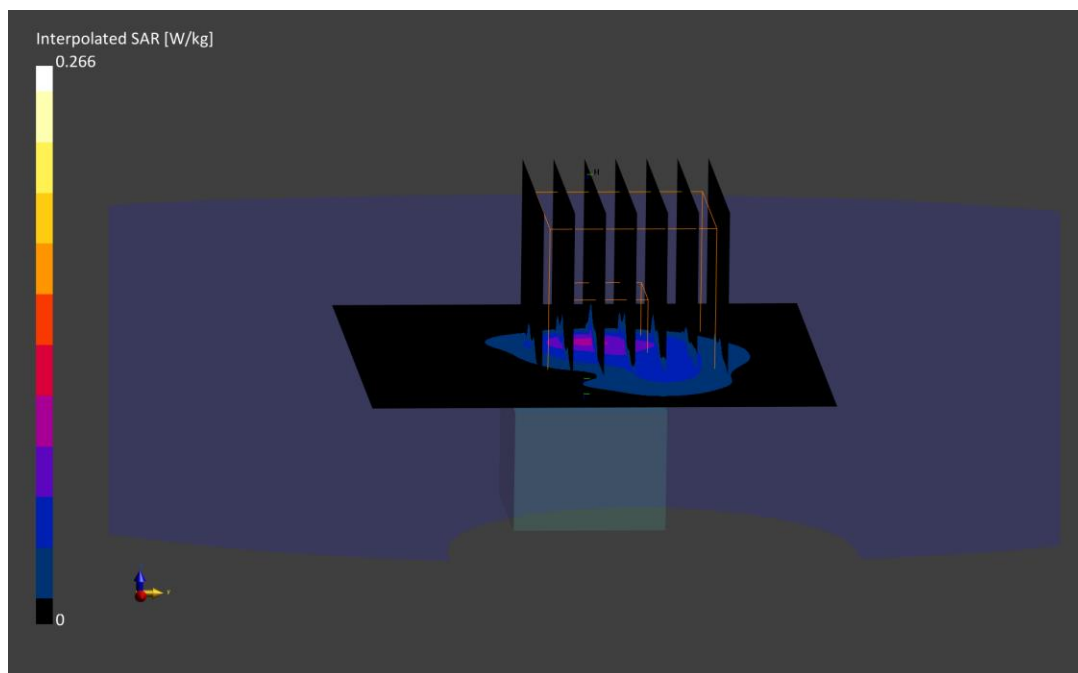
Reference Value = 0.06 W/kg; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR (1 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below is 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 66.1 %



ELEMENT

DUT: BCG-A2698; Type: Wireless Earbud; Serial: HM6HV17318JP

Communication System: UID:10035 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$ MHz; $\text{cond} = 1.80$ S/m; $\text{perm} = 39.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/12/2022; Ambient Temp: 22.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.0.0.116

Mode: Bluetooth, Body-Worn SAR, Ch.0, 1Mbps, Back Side, Right Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=4.6$ mm, $dy=4.6$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

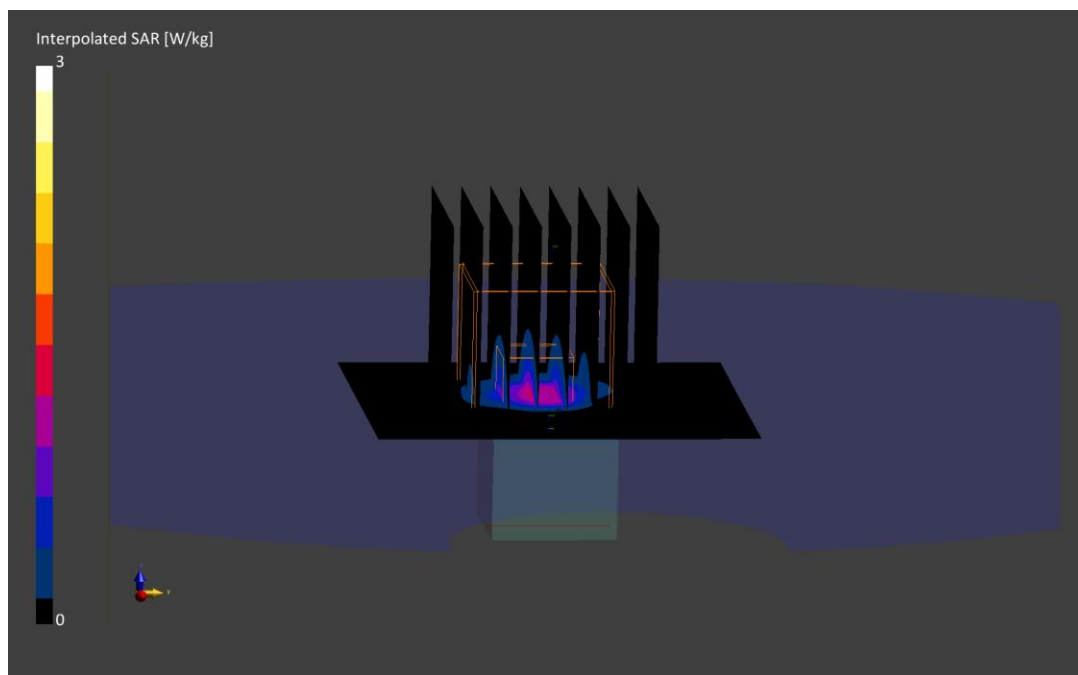
Reference Value = 0.73 W/kg; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.00 W/kg

SAR (1 g) = 0.982 W/kg

Smallest distance from peaks to all points 3 dB below is 5.0 mm

Ratio of SAR at M2 to SAR at M1 = 69.3 %



ELEMENT

DUT: BCG-A2698; Type: Wireless Earbud; Serial: HM6HV11618JP

Communication System: UID:10035 - CAA, CW; MAIA: Y; Frequency: 5245.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5245.0$ MHz; $\text{cond} = 4.53$ S/m; $\text{perm} = 35.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/26/2022; Ambient Temp: 20.9°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7638; ConvF:(5.59,5.59,5.59); Calibrated: 2022-03-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1408; Calibrated: 2022-03-21

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.0.2.136

Mode: NB UNII-1, Body-Worn SAR, High Ch., 1Mbps, Back Side, Right Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=2.0$ mm, $dy=2.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

Reference Value = 0.43 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 8.21 W/kg

SAR (1 g) = 1.04 W/kg

Smallest distance from peaks to all points 3 dB below is 2.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.3 %

