

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCGA3157; Type: Wireless Earbud; Serial: HJ4H720000R0000UEA

Communication System: UID:10981 - AAA, CW; MAIA: Y; Frequency: 2476.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2476.0 \text{ MHz}$; $\text{cond} = 1.86 \text{ S/m}$; $\text{perm} = 38.6$; $\text{density} = 1000 \text{ kg/m}^3$

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/26/2024; Ambient Temp: 21.9°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7499; ConvF:(7.13,7.46,7.69); Calibrated: 2024-01-16

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

Electronics: DAE4 Sn1644; Calibrated: 2023-12-07

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: 2.4 GHz Bluetooth, Exp: Head| Front Side, Ch. 73, 4 Mbps

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0 \text{ mm}$, $dy=10.0 \text{ mm}$

Zoom Scan (36.0 x 36.0 x 30.0): Measurement grid: $dx=3.6 \text{ mm}$, $dy=3.6 \text{ mm}$, $dz=1.5 \text{ mm}$; Graded Ratio: 1.5

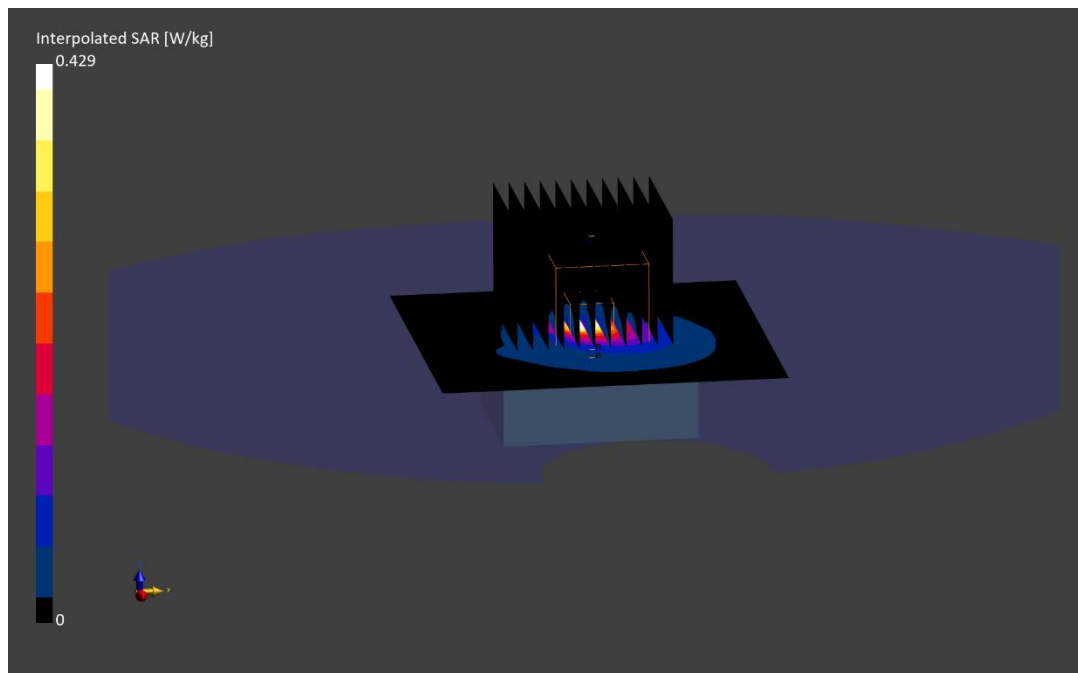
Reference Value = 0.19 W/kg; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.102 W/kg

Smallest distance from peaks to all points 3 dB below is 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.1 %



ELEMENT

DUT: BCGA3157; Type: Wireless Earbud; Serial: HJ4H720000R0000UEA

Communication System: UID:10981 - CAA, CW; MAIA: Y; Frequency: 5731.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5731.0$ MHz; $\text{cond} = 5.10$ S/m; $\text{perm} = 33.8$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/13/2024; Ambient Temp: 20.9°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7427; ConvF:(4.35,4.78,4.93); Calibrated: 2024-02-09

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

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: NB U-NII 3, Exp: Head| Front Side, Ch. Low, 4 Mbps

Area Scan (80.0 x 80.0): 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

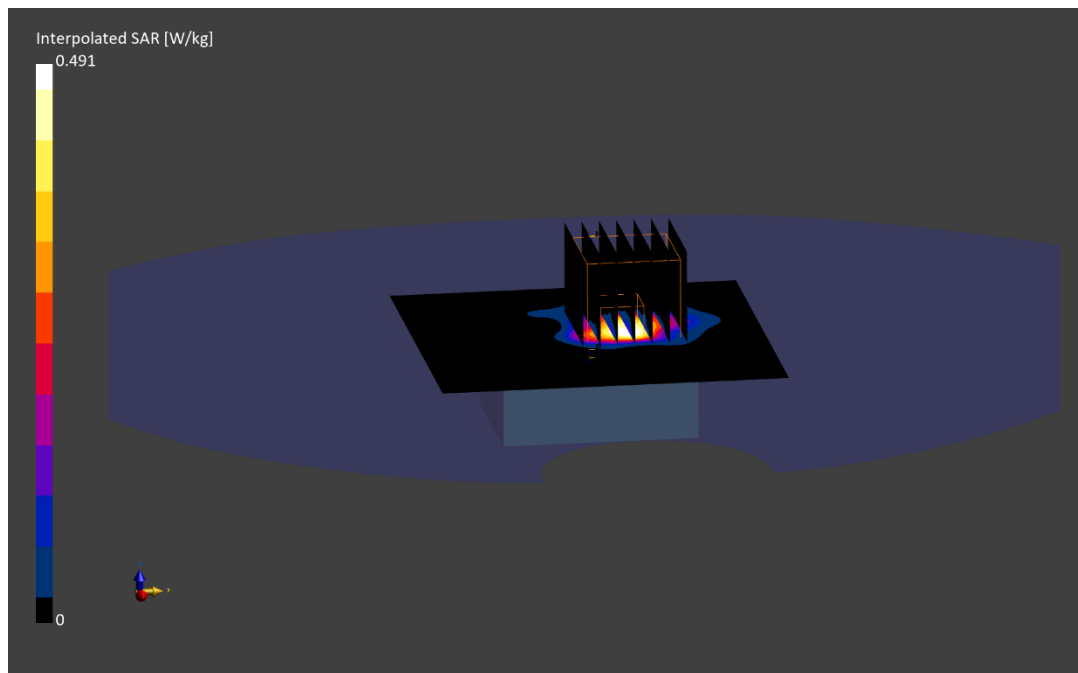
Reference Value = 0.07 W/kg; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.106 W/kg

Smallest distance from peaks to all points 3 dB below is 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.3 %



ELEMENT

DUT: BCGA3157; Type: Wireless Earbud; Serial: HJ4H720000R0000UEA

Communication System: UID:10981 - AAA, CW; MAIA: Y; Frequency: 2404.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2404.0$ MHz; $\text{cond} = 1.78$ S/m; $\text{perm} = 38.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/26/2024; Ambient Temp: 21.9°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7499; ConvF:(7.13,7.46,7.69); Calibrated: 2024-01-16

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

Electronics: DAE4 Sn1644; Calibrated: 2023-12-07

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: 2.4 GHz Bluetooth, Exp: Body-worn| Logo, Ch. 1, 4 Mbps

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=2.6$ mm, $dy=2.6$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

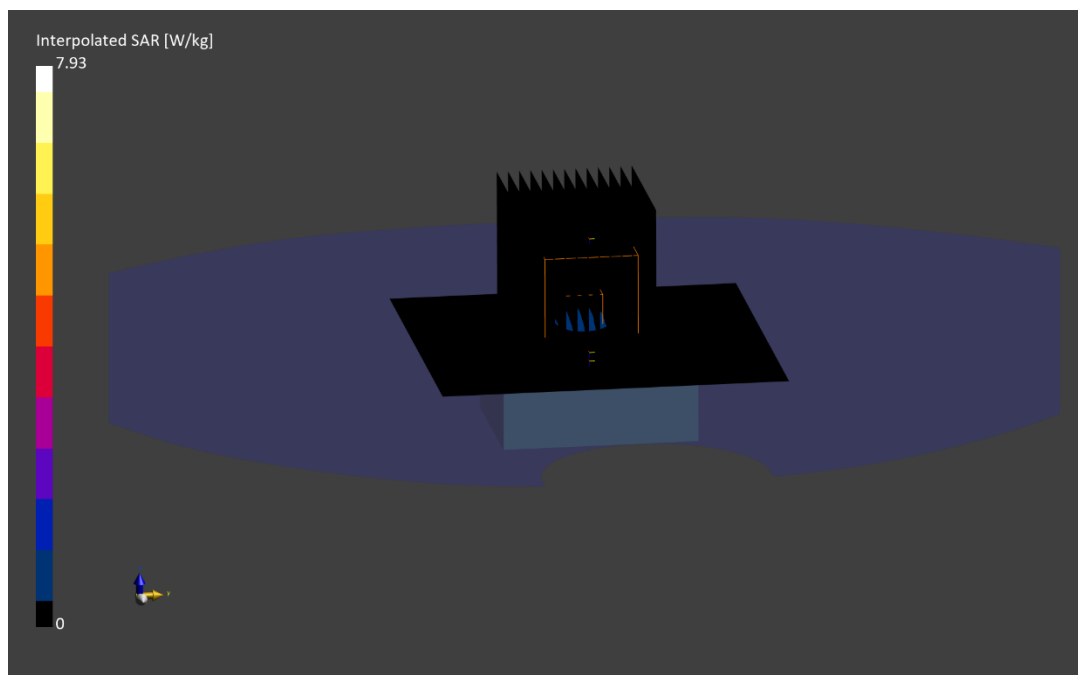
Reference Value = 1.63 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 7.93 W/kg

SAR(1 g) = 0.982 W/kg

Smallest distance from peaks to all points 3 dB below is 3.8 mm

Ratio of SAR at M2 to SAR at M1 = 43.5 %



ELEMENT

DUT: BCGA3157; Type: Wireless Earbud; Serial: HJ4H6Z0000M0000UEA

Communication System: UID:10981 - -, CW; MAIA: Y; Frequency: 5201.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5201.0$ MHz; $\text{cond} = 4.59$ S/m; $\text{perm} = 35.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/02/2024; Ambient Temp: 21.2°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7427; ConvF:(4.73,5.26,5.35); Calibrated: 2024-02-09

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

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: NB U-NII 1, Exp: Body-worn| Logo, Ch. Mid, 4 Mbps

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=2.9$ mm, $dy=2.9$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

Reference Value = 0.49 W/kg; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 4.74 W/kg

SAR(1 g) = 0.882 W/kg

Smallest distance from peaks to all points 3 dB below is 4.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.5 %

