# APPENDIX A: SAR TEST PLOTS

# ELEMENT

## DUT: BCGA3158; Type: Wireless Earbud; Serial: HJ4H71000UP0000UEB

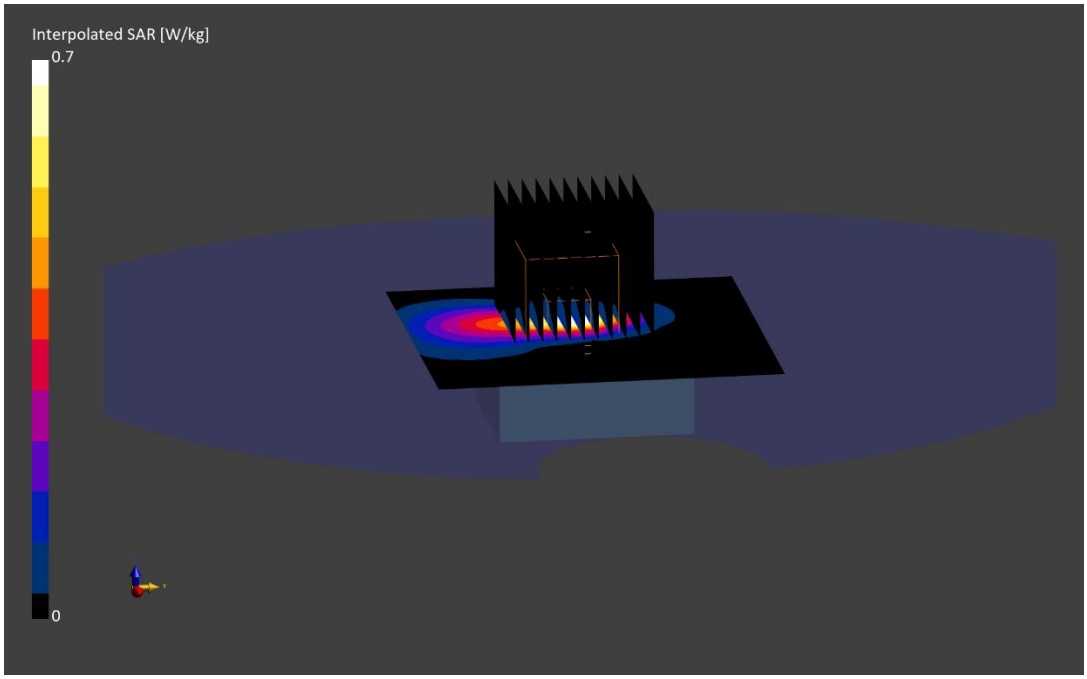
Communication System: UID:10981 - AAA, CW; MAIA: Y; Frequency: 2440.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2440.0 MHz; cond = 1.79 S/m; perm = 38.3; density = 1000 kg/$m^3$
Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/24/2024; Ambient Temp: 20.0°C; Tissue Temp: 23.7°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. 37, 4 Mbps

**Area Scan (80.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm
**Zoom Scan (32.0 x 32.0 x 30.0):** Measurement grid: dx=3.2 mm, dy=3.2 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.19 W/kg; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.700 W/kg
**SAR(1 g) = 0.132 W/kg**
Smallest distance from peaks to all points 3 dB below is 4.3 mm
Ratio of SAR at M2 to SAR at M1 = 44.7 %



# ELEMENT

## DUT: BCGA3158; Type: Wireless Earbud; Serial: HJ4H720001X0000UEB

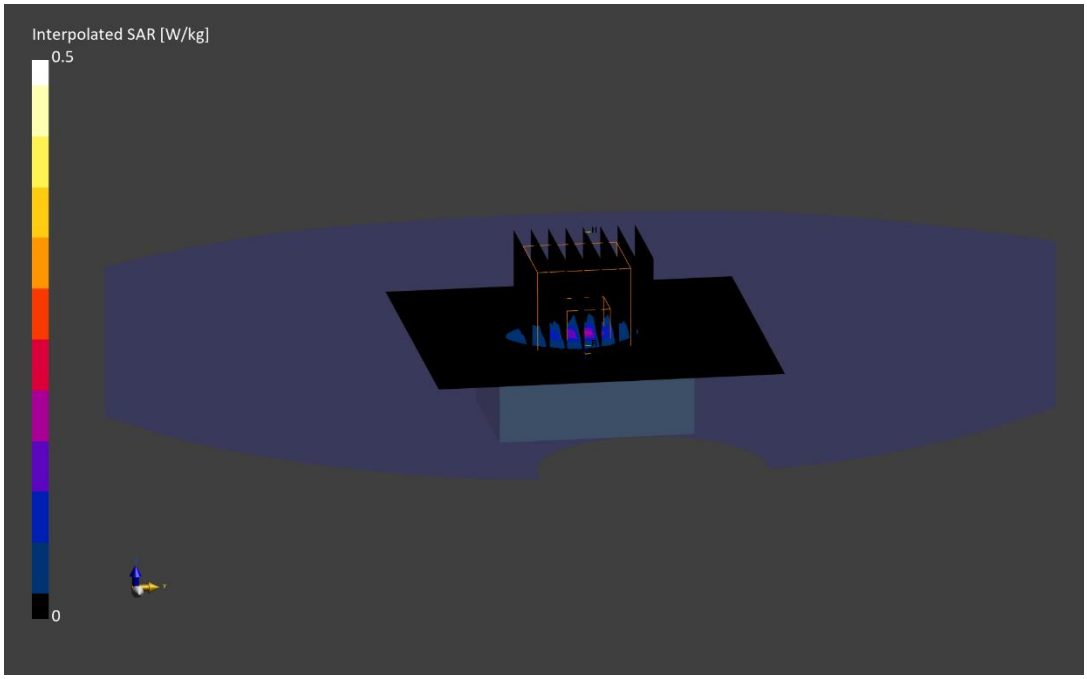
Communication System: UID:10981 - CAA, CW; MAIA: Y; Frequency: 5731.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5731.0 MHz; cond = 5.26 S/m; perm = 34.2; density = 1000 kg/$m^3$
Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/08/2024; Ambient Temp: 22.8°C; Tissue Temp: 19.0°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 = 0.08 W/kg; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.500 W/kg
**SAR(1 g) = 0.110 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 = 59.2 %



# ELEMENT

## DUT: BCGA3158; Type: Wireless Earbud; Serial: HJ4H71000UY0000UEB

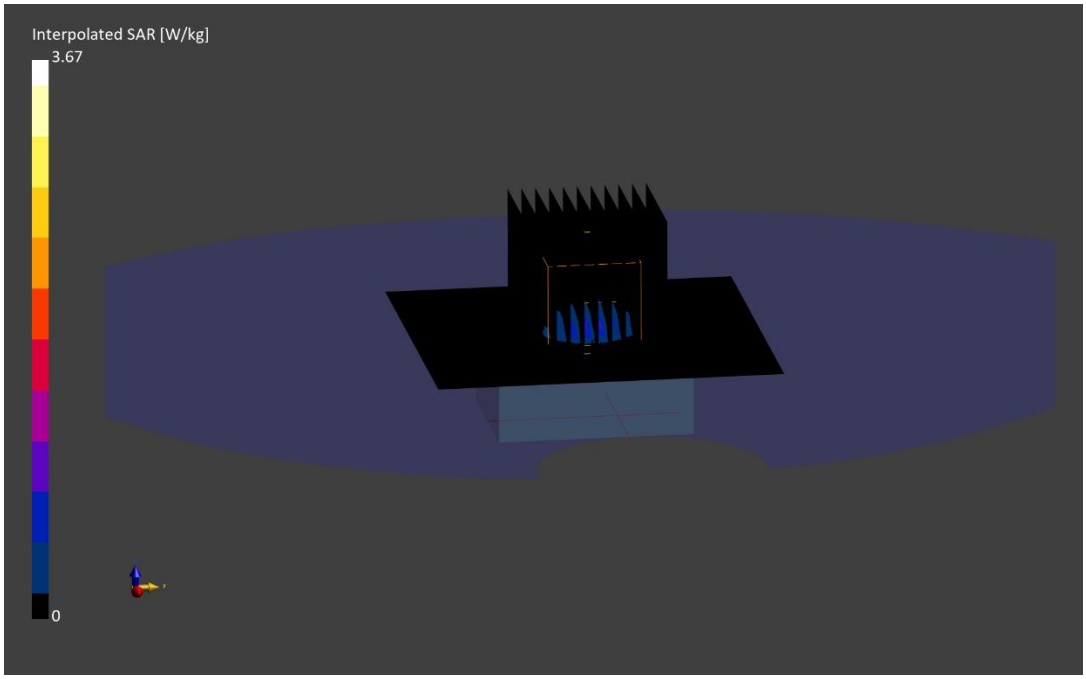
Communication System: UID:10981 - AAA, CW; MAIA: Y; Frequency: 2404.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2404.0 MHz; cond = 1.76 S/m; perm = 38.4; density = 1000 kg/$m^3$
Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/24/2024; Ambient Temp: 20.0°C; Tissue Temp: 23.7°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| Non-Button Edge, Ch. 1, 4 Mbps

**Area Scan (80.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm
**Zoom Scan (32.0 x 32.0 x 30.0):** Measurement grid: dx=3.2 mm, dy=3.2 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 1.47 W/kg; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.67 W/kg
**SAR(1 g) = 0.837 W/kg**
Smallest distance from peaks to all points 3 dB below is 4.5 mm
Ratio of SAR at M2 to SAR at M1 = 55.5 %



# ELEMENT

## DUT: BCGA3158; Type: Wireless Earbud; Serial: HJ4H720001X0000UEB

Communication System: UID:10981 - CAA, CW; MAIA: Y; Frequency: 5844.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5844.0 MHz; cond = 5.38 S/m; perm = 34.0; density = 1000 kg/$m^3$
Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/08/2024; Ambient Temp: 22.8°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7427; ConvF:(4.04,4.57,4.63); 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: Body-worn| Button, Ch. High, 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=3.8 mm, dy=3.8 mm, dz=1.4 mm; Graded Ratio: 1.4
Reference Value = 0.49 W/kg; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 5.28 W/kg
**SAR(1 g) = 0.869 W/kg**
Smallest distance from peaks to all points 3 dB below is 4.1 mm
Ratio of SAR at M2 to SAR at M1 = 56.1 %