

## APPENDIX A: SAR TEST PLOTS

# ELEMENT

**DUT: BCGA3140; Type: Wireless Headphones; Serial: FNM0WYM70G**

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2441.0 MHz; cond = 1.84 S/m; perm = 39.3; density = 1000 kg/m<sup>3</sup>

Phantom Section: RightHead; Space: 0.00 mm

Test Date: 11/07/2023; Ambient Temp: 21.1°C; Tissue Temp: 24.5°C

Probe: EX3DV4 - SN7546; ConvF:(7.29,7.29,7.29); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

Phantom: Twin-SAM V8.0; Serial: 1935

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Bluetooth, Exp: Head, 1 Mbps, Right Head, Ch. 39**

**Area Scan (120.0 x 160.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

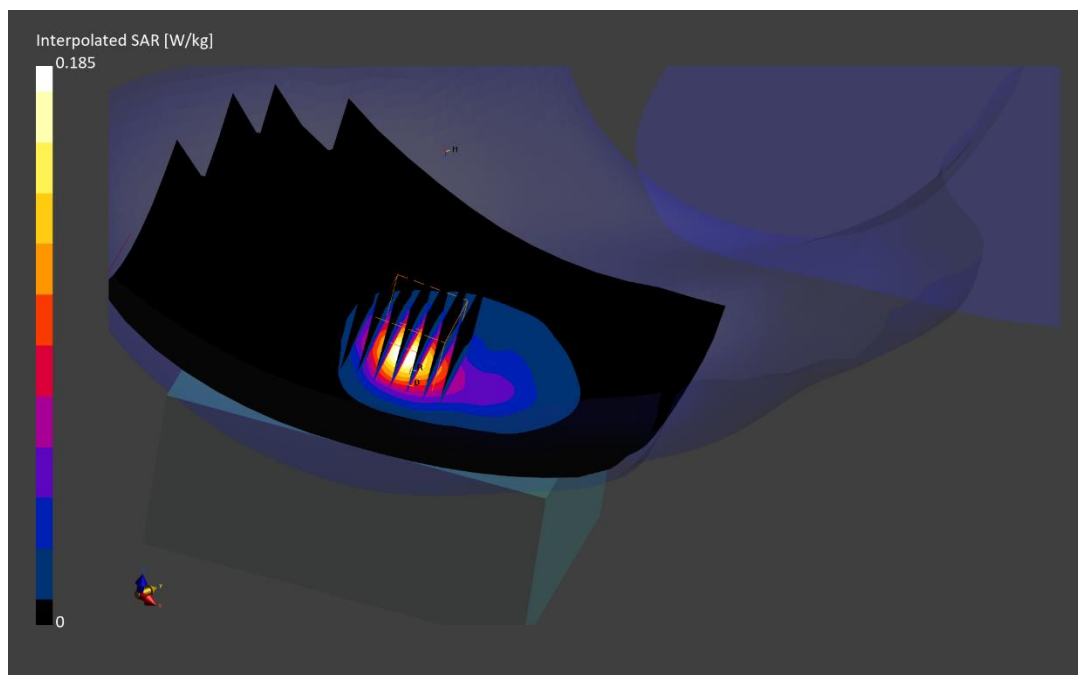
Reference Value = 0.10 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.185 W/kg

**SAR(1 g) = 0.093 W/kg**

Smallest distance from peaks to all points 3 dB below is 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 80.6 %



# ELEMENT

**DUT: BCGA3140; Type: Wireless Headphones; Serial: FNM0WYM70G**

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2441.0 MHz; cond = 1.84 S/m; perm = 39.3; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 11/07/2023; Ambient Temp: 21.1°C; Tissue Temp: 24.5°C

Probe: EX3DV4 - SN7546; ConvF:(7.29,7.29,7.29); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

Phantom: Twin-SAM V8.0; Serial: 1935

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Bluetooth, Exp: Extremity, 1 Mbps, Logo Side, Ch. 39**

**Area Scan (120.0 x 160.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Reference Value = 1.02 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.60 W/kg

**SAR(10 g) = 0.462 W/kg**

Smallest distance from peaks to all points 3 dB below is 13.5 mm

Ratio of SAR at M2 to SAR at M1 = 81.2 %

