

APPENDIX A: SAR TEST DATA

ELEMENT

DUT: BCG-A3454; Type: Wireless Headphones; Serial: 6L9L1

Communication System: UID:10670 - AAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2440.0$ MHz; $\text{cond} = 1.85$ S/m; $\text{perm} = 38.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Left Head; Space: 0.00 mm

Test Date: 02/19/2026; Ambient Temp: 22.3°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7420; ConvF:(7.39,6.77,7.65); Calibrated: 2025-10-09

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

Electronics: DAE4 Sn1408; Calibrated: 2025-10-14

Phantom: Twin-SAM V8.0; Serial: 2067

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth LE, Exp: Head| Left Cheek, Ch. 19, 1 Mbps

Area Scan (120.0 x 140.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

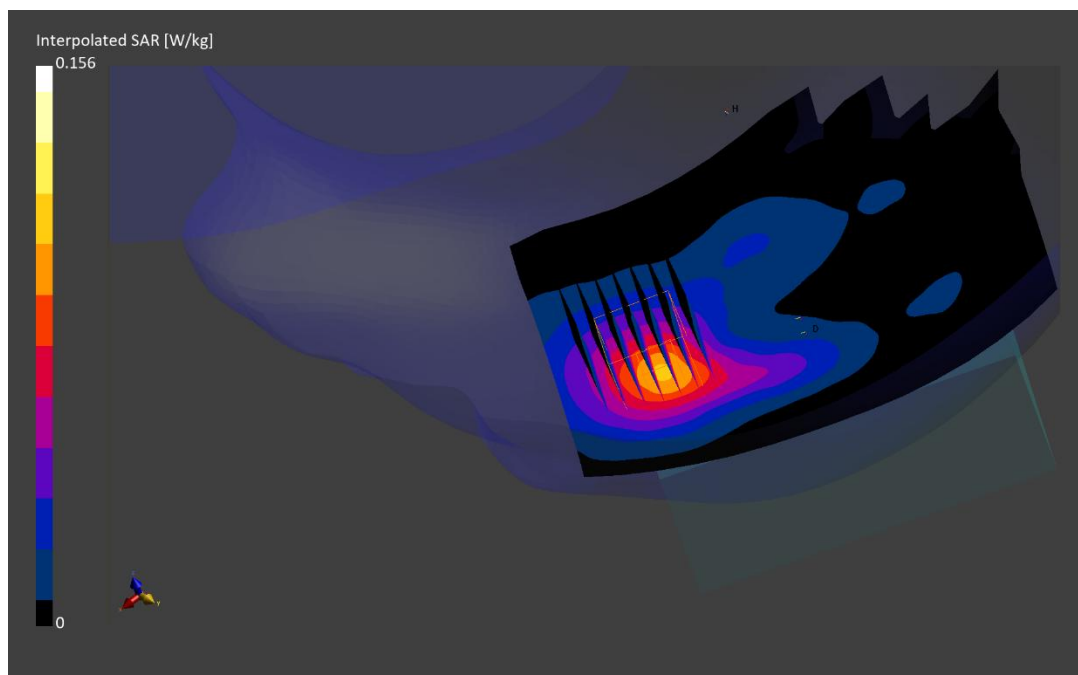
Reference Value = 0.08 W/kg; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.087 W/kg

Smallest distance from peaks to all points 3 dB below is 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 82.3 %



ELEMENT

DUT: BCG-A3454; Type: Wireless Headphones; Serial: FLXYT

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5731.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5731.0$ MHz; $\text{cond} = 5.05$ S/m; $\text{perm} = 35.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Right Head; Space: 0.00 mm

Test Date: 02/15/2026; Ambient Temp: 20.9°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7490; ConvF:(4.92,5.02,5.19); Calibrated: 2025-12-23

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1644; Calibrated: 2025-12-03

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

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 3, Exp: Head| Right Cheek, Ch. Low, 1 Mbps

Area Scan (120.0 x 140.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (40.0 x 40.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

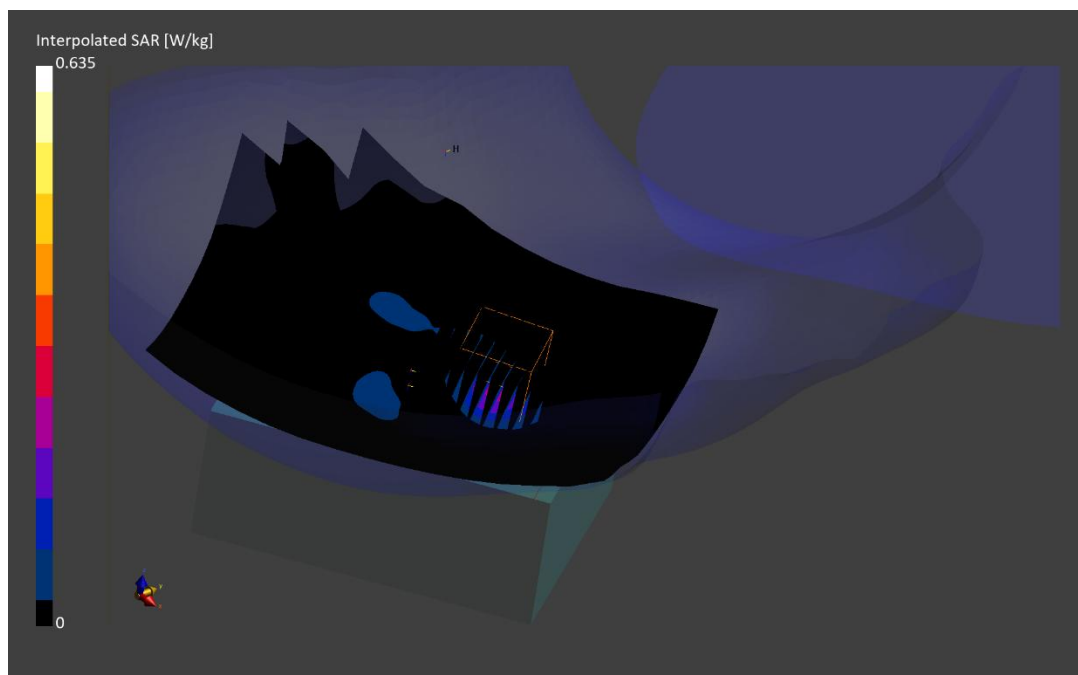
Reference Value = 0.04 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.635 W/kg

SAR(1 g) = 0.165 W/kg

Smallest distance from peaks to all points 3 dB below is 9.0 mm

Ratio of SAR at M2 to SAR at M1 = 59.5 %



ELEMENT

DUT: BCG-A3454; Type: Wireless Headphones; Serial: 6L9L1

Communication System: UID:10670 - AAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$ MHz; $\text{cond} = 1.70$ S/m; $\text{perm} = 39.8$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 02/17/2026; Ambient Temp: 19.2°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7551; ConvF:(6.98,6.91,7.1); Calibrated: 2025-04-16

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

Electronics: DAE4 Sn1323; Calibrated: 2025-04-15

Phantom: Twin-SAM V5.0; Serial: 1647

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth LE, Exp: Extremity| Antenna Touching, Ch. 0, 1 Mbps

Area Scan (120.0 x 140.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

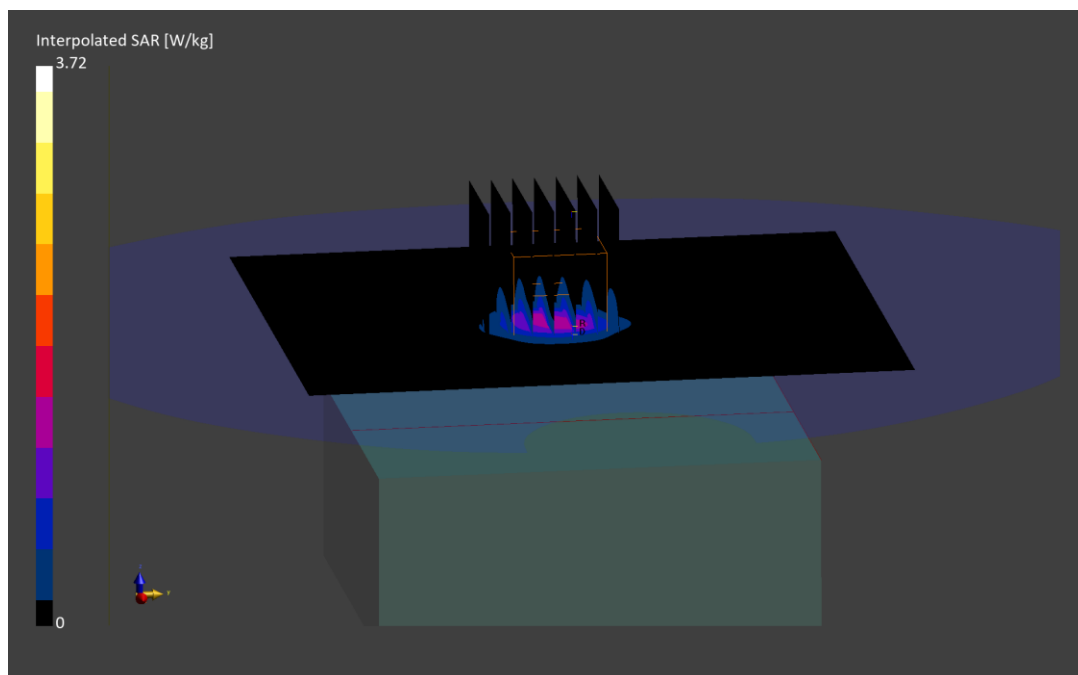
Reference Value = 1.03 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(10 g) = 0.462 W/kg

Smallest distance from peaks to all points 3 dB below is 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 57.4 %



ELEMENT

DUT: BCG-A3454; Type: Wireless Headphones; Serial: FLXYT

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5731.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5731.0$ MHz; $\text{cond} = 5.05$ S/m; $\text{perm} = 35.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 02/15/2026; Ambient Temp: 20.9°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7490; ConvF:(4.92,5.02,5.19); Calibrated: 2025-12-23

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

Electronics: DAE4 Sn1644; Calibrated: 2025-12-03

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

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 3, Exp: Extremity| Antenna Touching, Ch. Low, 1 Mbps

Area Scan (120.0 x 140.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (33.8 x 31.2 x 25.0): Measurement grid: $dx=2.6$ mm, $dy=2.6$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

Reference Value = 0.38 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.47 W/kg

SAR(10 g) = 0.185 W/kg

Smallest distance from peaks to all points 3 dB below is 3.5 mm

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

