

APPENDIX A: SAR TEST DATA

ELEMENT

DUT: BCG-A3063; Type: Wireless Earbud; Serial: H5RHH5001HV

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

Medium: 2450 Head; Medium parameters used:

$f = 2404.0$ MHz; $\text{cond} = 1.74$ S/m; $\text{perm} = 39.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/20/2025; Ambient Temp: 20.5°C; Tissue Temp: 19.4°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 V4.0; Serial: 1447

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Exp: Head| Front Side, Ch. 1, 4 Mbps

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

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

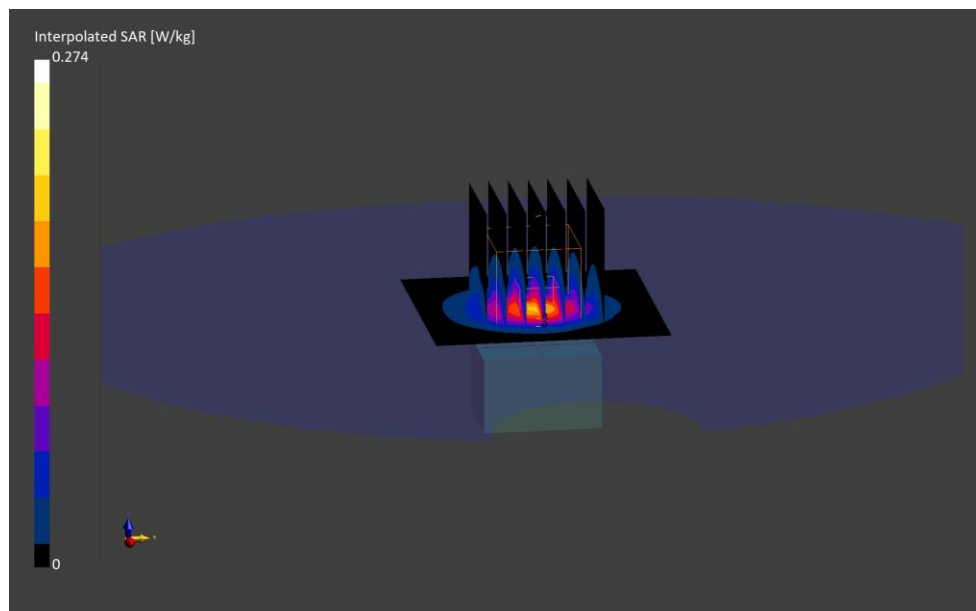
Reference Value = 0.23 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.142 W/kg

Smallest distance from peaks to all points 3 dB below is 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 81.6 %



ELEMENT

DUT: BCG-A3063 Type: Wireless Earbud; Serial: H5RHH2000RV

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5157.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5157.0$ MHz; $\text{cond} = 4.57$ S/m; $\text{perm} = 35.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/16/2025; Ambient Temp: 20.5°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7499; ConvF:(5.42,5.54,5.73); Calibrated: 2025-01-14

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

Electronics: DAE4 Sn1465; Calibrated: 2025-01-08

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

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 1, Exp: Head| Front Side, Ch. Low, 1 Mbps

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

Zoom Scan (28.0 x 28.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

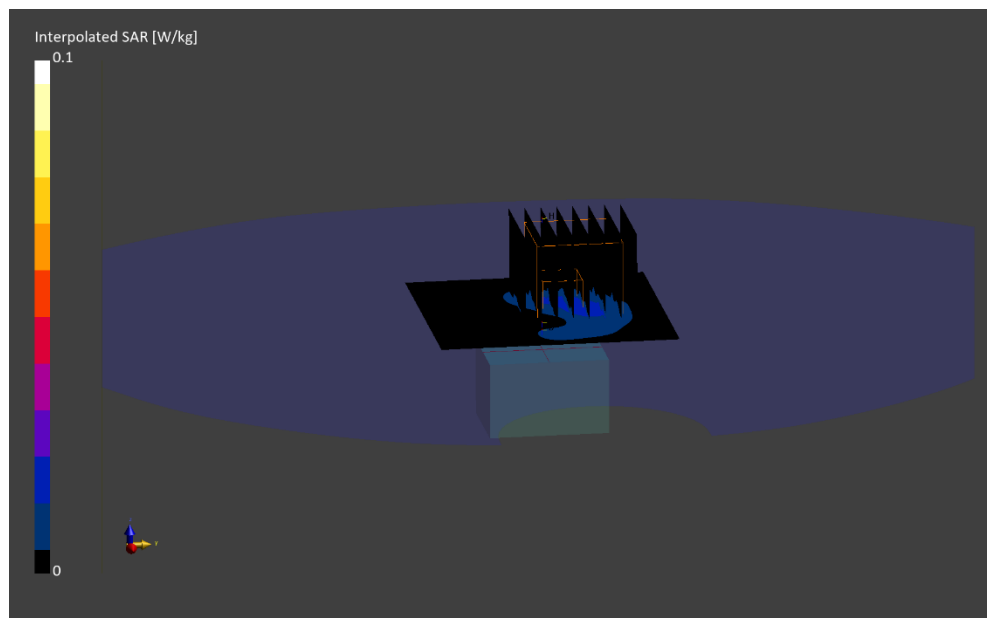
Reference Value = 0.01 W/kg; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.077 W/kg

SAR(1 g) = 0.015 W/kg

Smallest distance from peaks to all points 3 dB below is 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 59.2 %



ELEMENT

DUT: BCG-A3063; Type: Wireless Earbud; Serial: H5RHH2000RV

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5844.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5844.0$ MHz; $\text{cond} = 5.36$ S/m; $\text{perm} = 34.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/16/2025; Ambient Temp: 20.5°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7499; ConvF:(4.9,5.02,5.19); Calibrated: 2025-01-14

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

Electronics: DAE4 Sn1465; Calibrated: 2025-01-08

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

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 3, Exp: Head| Front Side, Ch. High, 1 Mbps

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

Zoom Scan (36.0 x 40.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

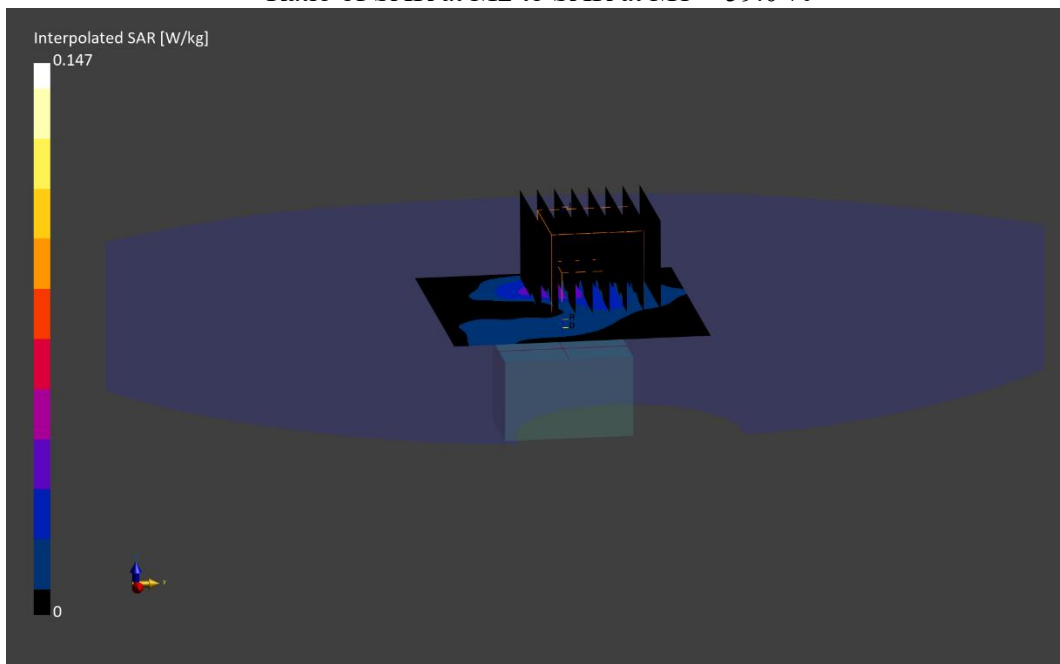
Reference Value = 0.01 W/kg; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.024 W/kg

Smallest distance from peaks to all points 3 dB below is 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 59.0 %



ELEMENT

DUT: BCG-A3063; Type: Wireless Earbud; Serial: H5RHH2000RV

Communication System: UID:10982 - AAA, CW; MAIA: Y; Frequency: 6108.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6108.0$ MHz; $\text{cond} = 5.34$ S/m; $\text{perm} = 35.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 08/11/2025; Ambient Temp: 22.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN3949; ConvF:(5.23,5.7,5.57); Calibrated: 2024-09-09

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

Electronics: DAE4 Sn1684; Calibrated: 2024-09-04

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 5, Exp: Head| Front Side, Ch. Low, 8 Mbps

Area Scan (68.0 x 76.5): Measurement grid: $\text{dx}=8.5$ mm, $\text{dy}=8.5$ mm

Zoom Scan (30.6 x 27.2 x 22.9): Measurement grid: $\text{dx}=3.4$ mm, $\text{dy}=3.4$ mm, $\text{dz}=1.4$ mm; Graded Ratio: 1.4

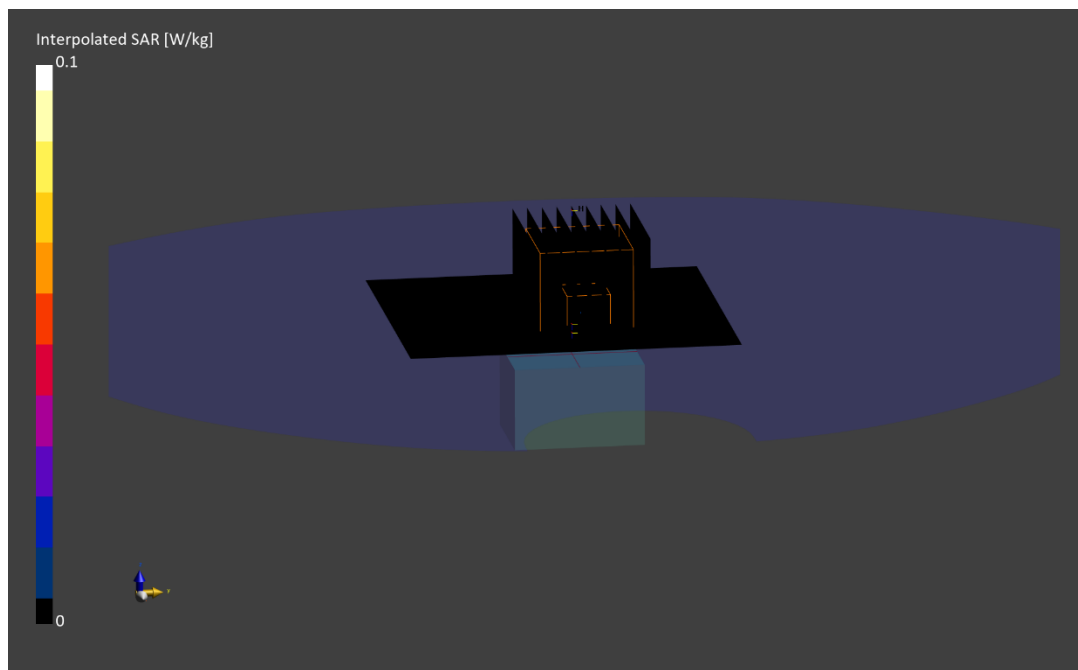
Reference Value = -0.00 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.019 W/kg

SAR(1 g) = 0.003 W/kg; APD(4cm²) = 0.021 W/m²

Smallest distance from peaks to all points 3 dB below is N/A

Ratio of SAR at M2 to SAR at M1 = 66.7 %



ELEMENT

DUT: BCG-A3063; Type: Wireless Earbud; Serial: H5RHH5001HV

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

Medium: 2450 Head; Medium parameters used:

$f = 2404.0$ MHz; $\text{cond} = 1.74$ S/m; $\text{perm} = 39.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/20/2025; Ambient Temp: 20.5°C; Tissue Temp: 19.4°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 V4.0; Serial: 1447

Measurement SW: DASY Module SAR V16.4.0.5005

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

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 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

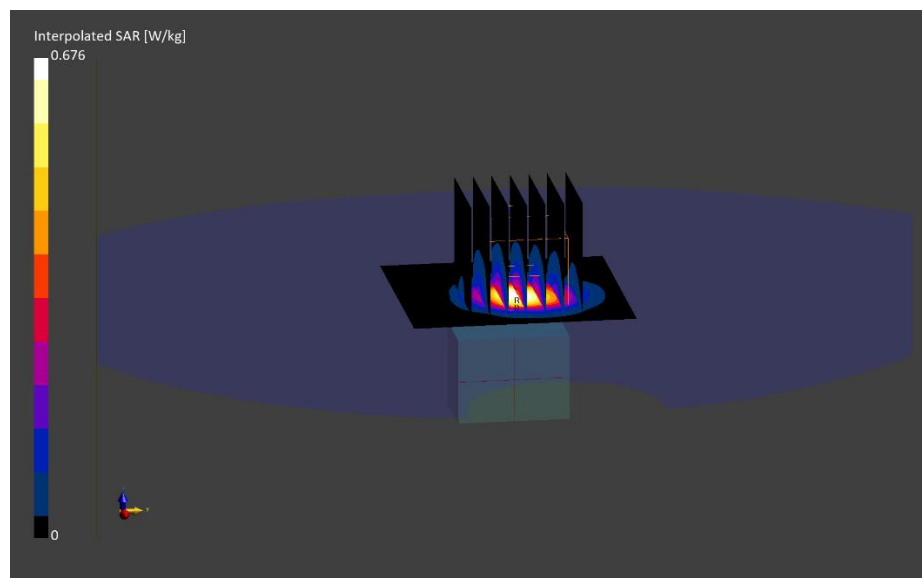
Reference Value = 0.53 W/kg; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.316 W/kg

Smallest distance from peaks to all points 3 dB below is 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 78.9 %



ELEMENT

DUT: BCG-A3063 Type: Wireless Earbud; Serial: H5RHH2000RV

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5157.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5157.0 MHz; cond = 4.57 S/m; perm = 35.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/16/2025; Ambient Temp: 20.5°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7499; ConvF:(5.42,5.54,5.73); Calibrated: 2025-01-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1465; Calibrated: 2025-01-08
Phantom: Twin-SAM V8.0; Serial: 2070
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 1, Exp: Body-worn| Back Side, Ch. Low, 1 Mbps

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

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

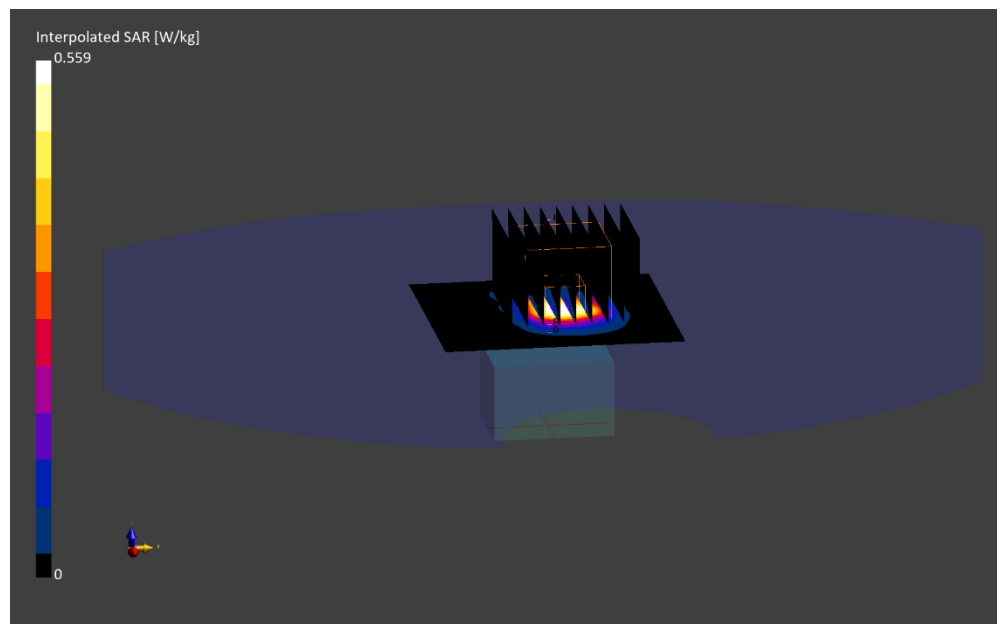
Reference Value = 0.08 W/kg; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.559 W/kg

SAR(1 g) = 0.135 W/kg

Smallest distance from peaks to all points 3 dB below is 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 60.3 %



ELEMENT

DUT: BCG-A3063; Type: Wireless Earbud; Serial: H5RHH2000RV

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5844.0 MHz

Medium: 5200-5850 Head; Medium parameters used:

$f = 5844.000$ MHz; $\text{cond} = 5.36$ S/m; $\text{perm} = 34.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/16/2025; Ambient Temp: 20.5°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7499; ConvF:(4.9,5.02,5.19); Calibrated: 2025-01-14

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

Electronics: DAE4 Sn1465; Calibrated: 2025-01-08

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

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 3, Exp: Body-worn| Back Side, Ch. High, 1 Mbps

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

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

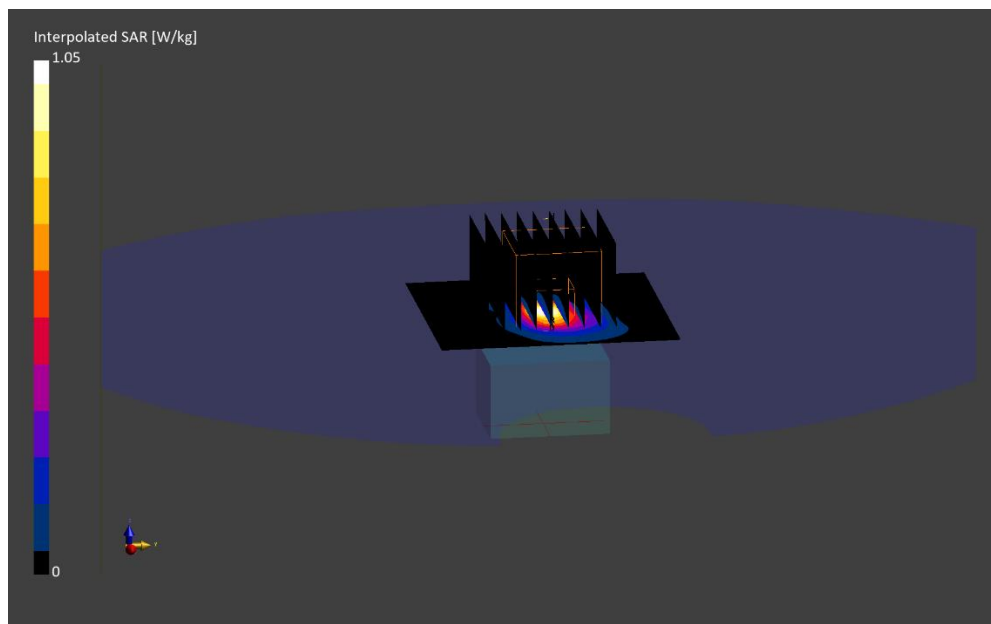
Reference Value = 0.12 W/kg; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.225 W/kg

Smallest distance from peaks to all points 3 dB below is 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.0 %



ELEMENT

DUT: BCG-A3063; Type: Wireless Earbud; Serial: H5RHH2000RV

Communication System: UID:10982 - AAA, CW; MAIA: Y; Frequency: 6108.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6108.0$ MHz; $\text{cond} = 5.34$ S/m; $\text{perm} = 35.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 08/11/2025; Ambient Temp: 22.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN3949; ConvF:(5.23,5.7,5.57); Calibrated: 2024-09-09

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

Electronics: DAE4 Sn1684; Calibrated: 2024-09-04

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 5, Exp: Body-worn| Left Side, Ch. Low, 8 Mbps

Area Scan (68.0 x 68.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

Zoom Scan (40.8 x 40.8 x 22.9): Measurement grid: $dx=3.4$ mm, $dy=3.4$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

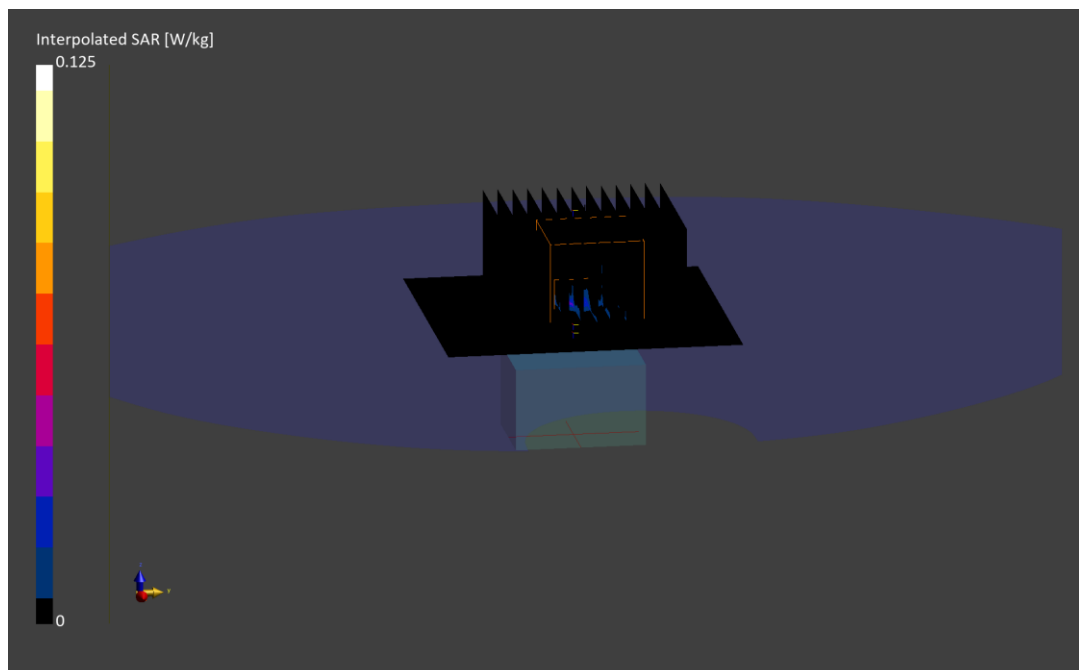
Reference Value = 0.02 W/kg; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.025 W/kg; APD(4cm²) = 0.145 W/m²

Smallest distance from peaks to all points 3 dB below is 4.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.2 %



Date: 08/13/2025

Antenna Right, Exp: Body | Ch. Low,

Device Under Test Properties

DUT	Serial Number	DUT Type
BCG-A3063	H5RHH2000RV	Wireless Earbud

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	Back	2.00	6108000	10982	6108.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9407, 10/09/2024	DAE4 - SN1402, 04/10/2025

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pStot avg [W/m²]	0.422
pSn avg [W/m²]	0.419
Epeak [V/m]	18.3
Power Drift [dB]	-0.02

