

APPENDIX A: TEST PLOTS

FCC ID: BCG-A3531		RF EXPOSURE REPORT	Approved by: Technical Manager
DUT Type: Wireless Earbud		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Appendix A

ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHTP0004R0001HBN

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 2402.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2402.0 MHz; cond = 1.78 S/m; perm = 38.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/07/2026; Ambient Temp: 23.9°C; Tissue Temp: 23.8°C

Probe: EX3DV4 - SN7551; ConvF:(6.86,6.94,7.06); Calibrated: 2026-03-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; Calibrated: 2026-03-10
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Exp: Head| Front Side, Ch. 0, 1 Mbps

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

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

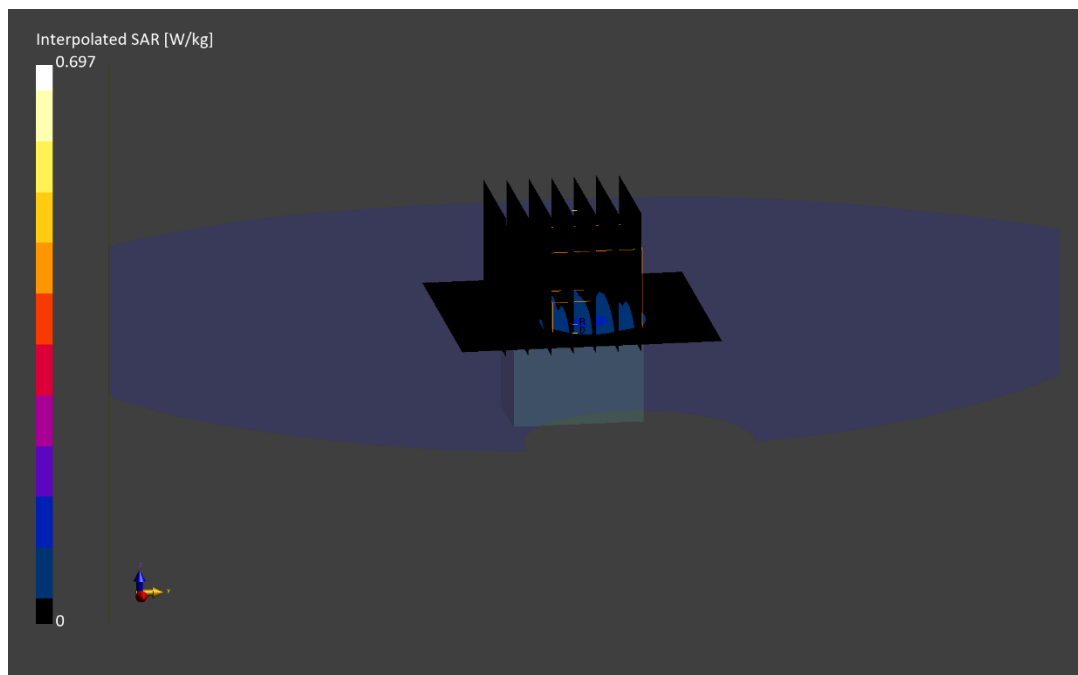
Reference Value = 0.07 W/kg; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.697 W/kg

SAR(1 g) = 0.098 W/kg

Smallest distance from peaks to all points 3 dB below is 2.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.8 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHTP0001V0001HBN

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5157.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5157.0 MHz; cond = 4.40 S/m; perm = 35.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/04/2026; Ambient Temp: 21.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7490; ConvF:(5.24,5.35,5.52); 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 1, Exp: Head| Front Side, Ch. Low, 1 Mbps

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

Zoom Scan (28.0 x 24.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

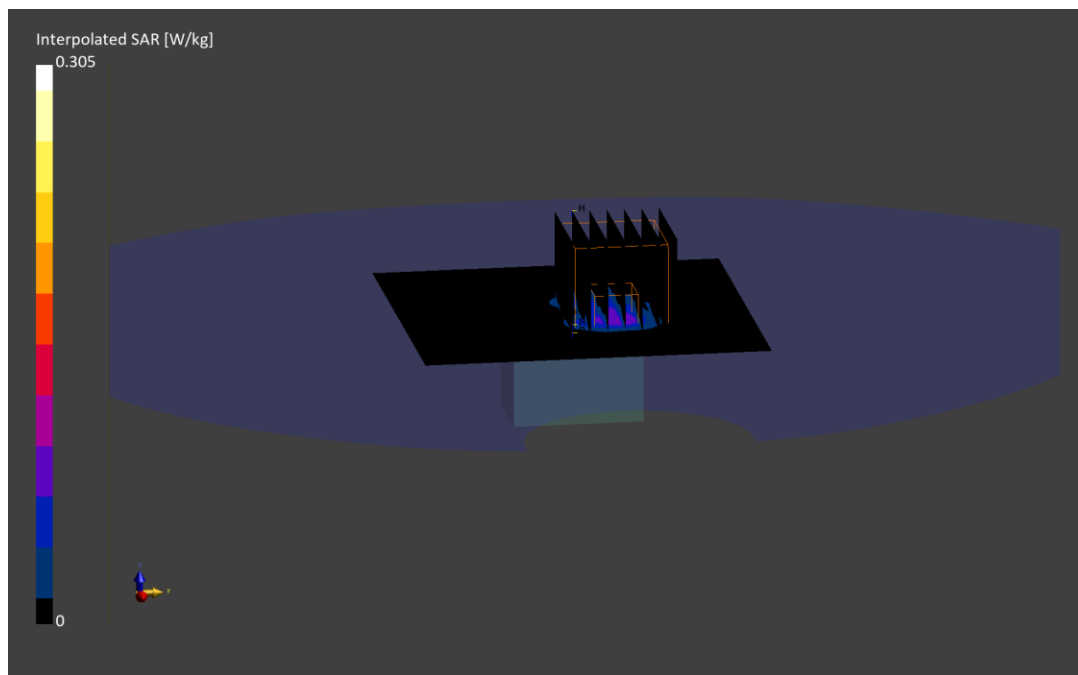
Reference Value = 0.06 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below is 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.1 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHTP0004R0001HBN

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5731.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5731.0 MHz; cond = 5.05 S/m; perm = 34.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/04/2026; Ambient Temp: 21.1°C; Tissue Temp: 19.0°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: 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 25.0): Measurement grid: dx=2.8 mm, dy=2.8 mm, dz=1.2 mm; Graded Ratio: 1.2

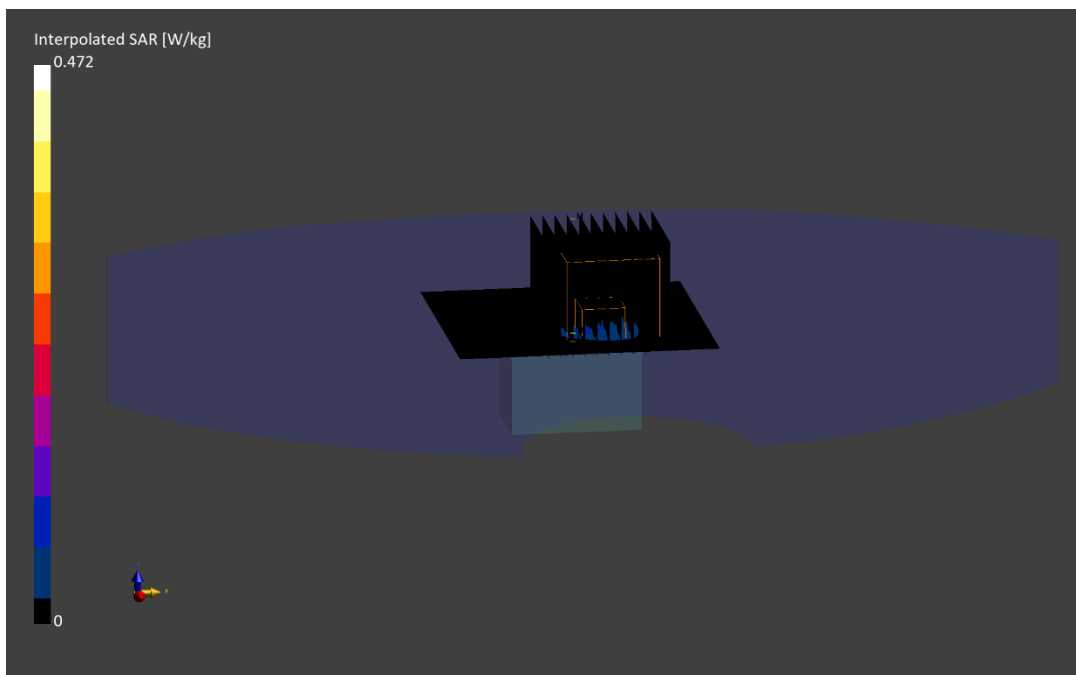
Reference Value = 0.03 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below is 4.0 mm

Ratio of SAR at M2 to SAR at M1 = 52.1 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHS3000CX0001HBN

Communication System: UID:10982 - AAA, CW; MAIA: Y; Frequency: 6264.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6264.0$ MHz; $\text{cond} = 5.60$ S/m; $\text{perm} = 34.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/02/2026; Ambient Temp: 22.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7420; ConvF:(5.7,5.23,5.9); Calibrated: 2025-10-09

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

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

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. Mid, 8 Mbps

Area Scan (51.0 x 68.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

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

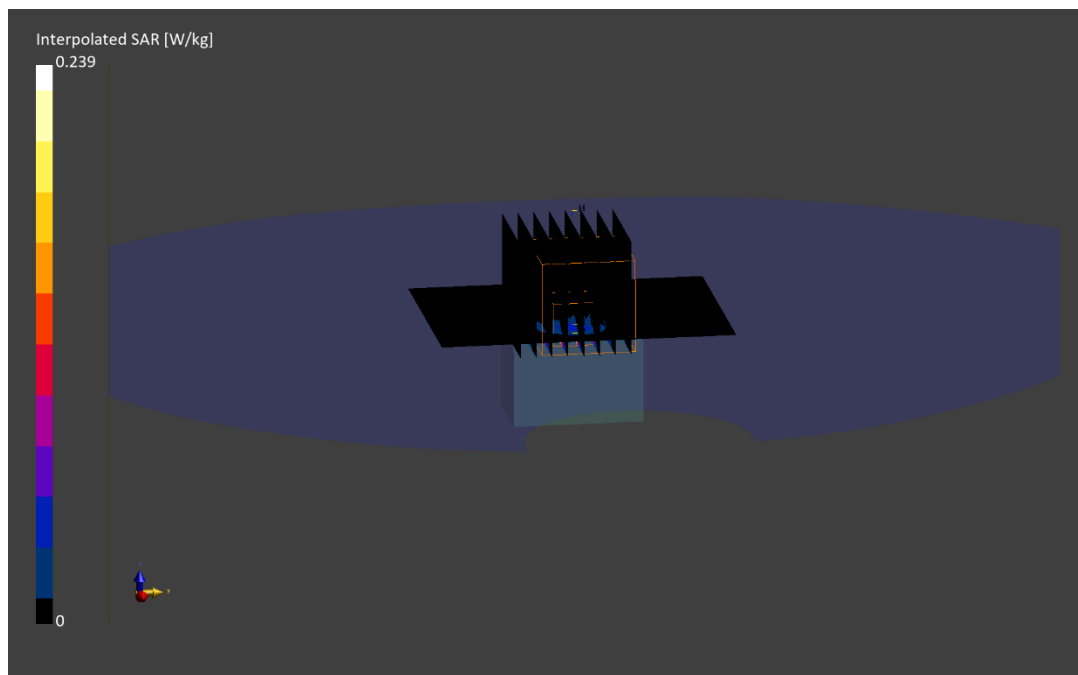
Reference Value = 0.03 W/kg; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.037 W/kg; APD(4cm²) = 0.193 W/m²

Smallest distance from peaks to all points 3 dB below is 3.7 mm

Ratio of SAR at M2 to SAR at M1 = 38.8 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHTP0004R0001HBN

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 2402.0 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2402.0$ MHz; $\text{cond} = 1.78$ S/m; $\text{perm} = 38.4$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 5.00 mm

Test Date: 08/07/2026; Ambient Temp: 23.9°C; Tissue Temp: 23.8°C

Probe: EX3DV4 - SN7551; ConvF:(6.86,6.94,7.06); Calibrated: 2026-03-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; Calibrated: 2026-03-10
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Exp: Body-worn| Back Side, Ch. 0, 1 Mbps

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

Zoom Scan (33.6 x 33.6 x 33.4): Measurement grid: $dx=4.2$ mm, $dy=4.2$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

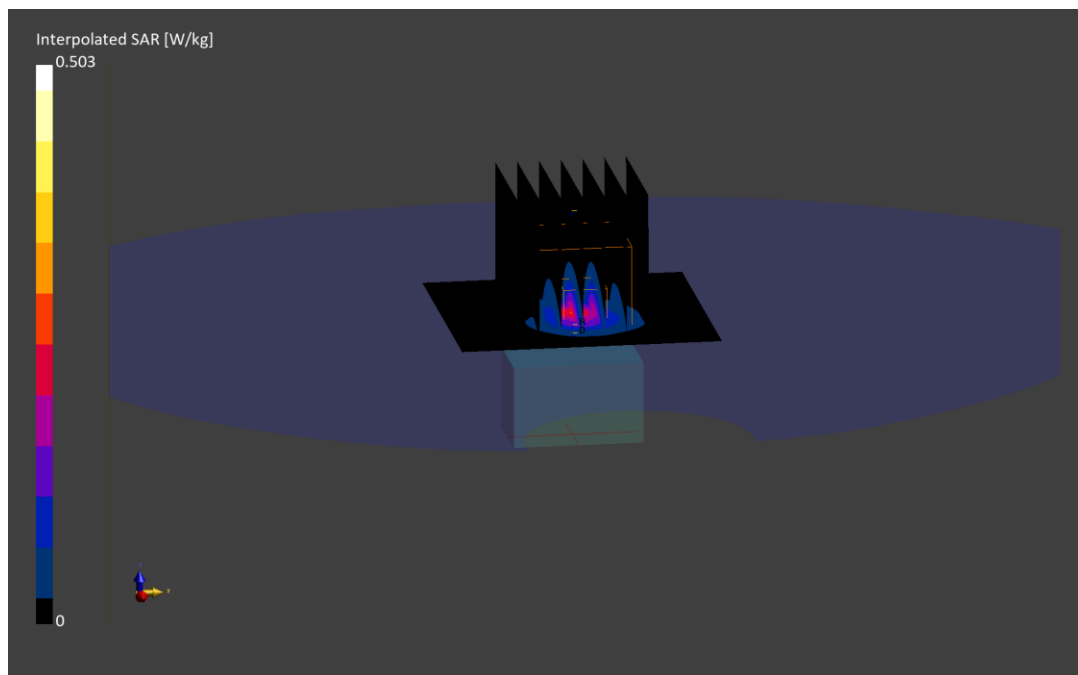
Reference Value = 0.14 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.182 W/kg

Smallest distance from peaks to all points 3 dB below is 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 75.7 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHTP0001V0001HBN

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5157.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5157.0 MHz; cond = 4.40 S/m; perm = 35.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 5.00 mm

Test Date: 08/04/2026; Ambient Temp: 21.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7490; ConvF:(5.24,5.35,5.52); 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 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 (28.0 x 24.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

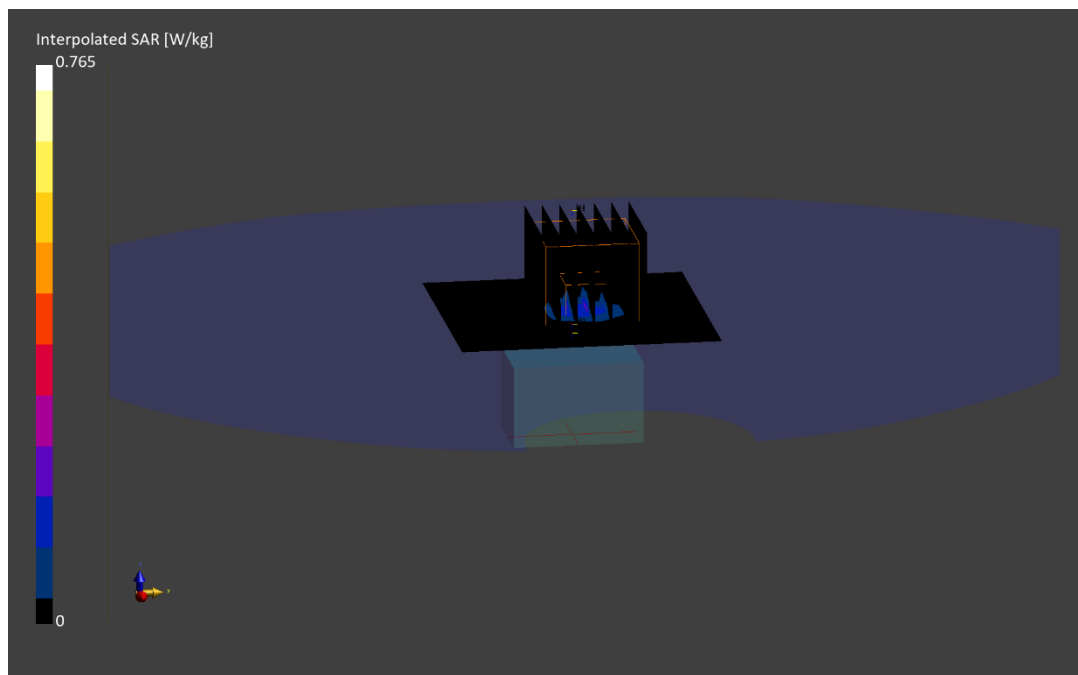
Reference Value = 0.10 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.765 W/kg

SAR(1 g) = 0.153 W/kg

Smallest distance from peaks to all points 3 dB below is 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.8 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHTP0004R0001HBN

Communication System: UID:10670 - AAA, CW; MAIA: Y; Frequency: 5731.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5731.0 MHz; cond = 5.05 S/m; perm = 34.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 5.00 mm

Test Date: 08/04/2026; Ambient Temp: 21.1°C; Tissue Temp: 19.0°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: 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

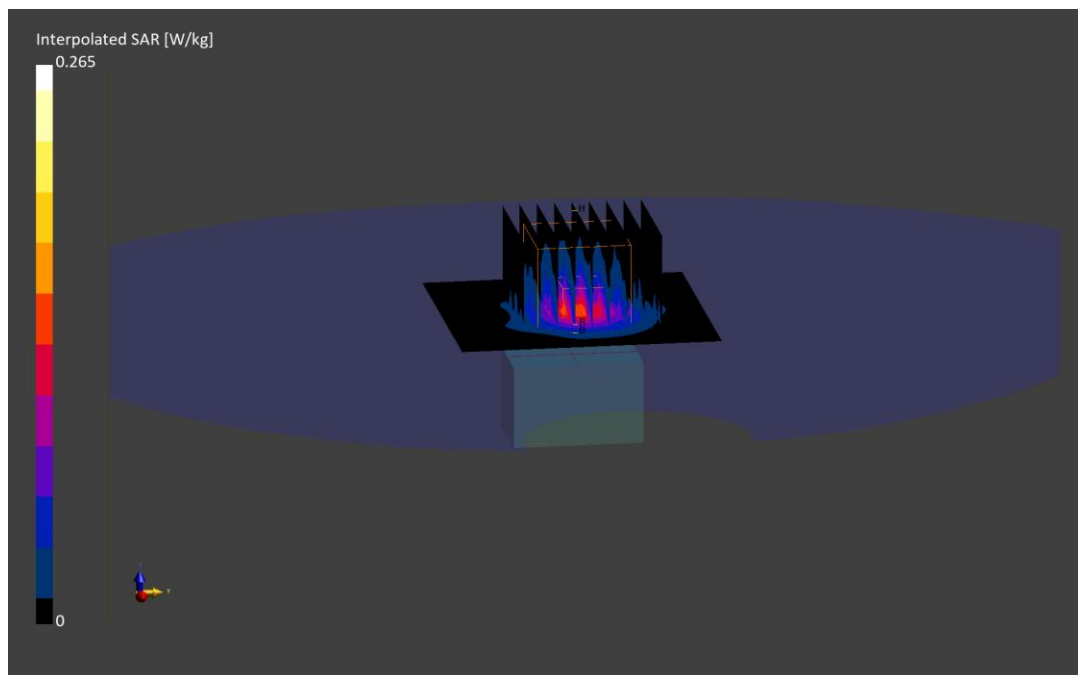
Reference Value = 0.12 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.124 W/kg

Smallest distance from peaks to all points 3 dB below is 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 81.0 %



ELEMENT

DUT: BCG-A3531; Type: Wireless Earbud; Serial: J5MHS3000CX0001HBN

Communication System: UID:10982 - AAA, CW; MAIA: Y; Frequency: 6420.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6420.0$ MHz; $\text{cond} = 5.86$ S/m; $\text{perm} = 33.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5.00 mm

Test Date: 07/28/2026; Ambient Temp: 23.1°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7420; ConvF:(5.7,5.23,5.9); Calibrated: 2025-10-09

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

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

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

Measurement SW: DASY Module SAR V16.4.0.5005

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

Area Scan (51.0 x 68.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

Zoom Scan (27.2 x 23.8 x 22.9): Measurement grid: $dx=3.4$ mm, $dy=3.4$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

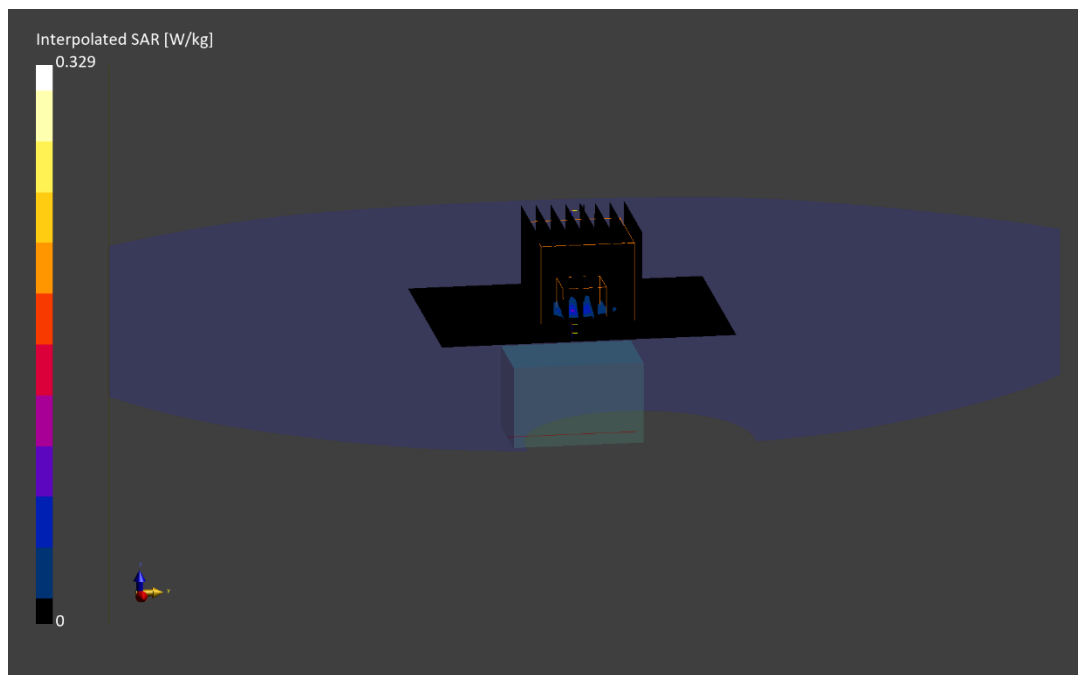
Reference Value = 0.06 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.061 W/kg; APD(4cm²) = 0.312 W/m²

Smallest distance from peaks to all points 3 dB below is 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 50.6 %



Date: 08/17/2026

Mode: NB-UNII 5, Exp: Head| Front, Ch. Mid, 8 Mbps

Device Under Test Properties

DUT	Serial Number	DUT Type
BCG-A3531	J5MHTP0004R0001HBN	Wireless Earbud

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	Front	2.00	Mid	10982	6264.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9364, 06/10/2026	DAE4 - SN1403, 10/22/2025

Software Setup

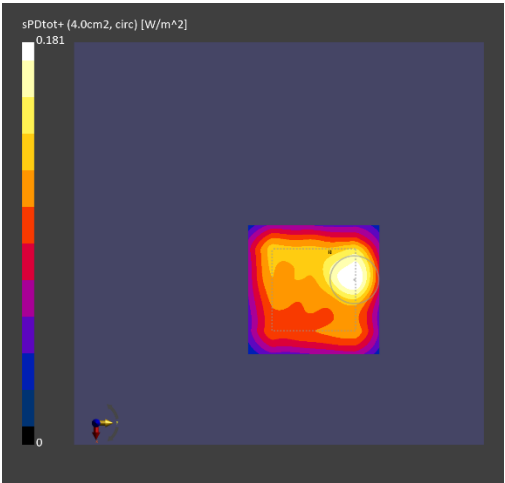
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.041 x 0.041
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	0.181
pS _n avg [W/m²]	0.170
E _{peak} [V/m]	12.2
Power Drift [dB]	0.05



Date: 08/17/2026

Mode: NB–UNII 5, Antenna Right; Exp: Body–worn| Back, Ch. Mid, 8 Mbps

Device Under Test Properties

DUT	Serial Number	DUT Type
BCG–A3531	J5MHTP0004R0001HBN	Wireless Earbud

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	Back	5.00	Mid	10982	6264.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 – SN9364, 06/10/2026	DAE4 – SN1403, 10/22/2025

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 × 60.0
Grid Steps [lambda]	0.041 × 0.041
Sensor Surface [mm]	5.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	0.260
pS _n avg [W/m²]	0.248
E _{peak} [V/m]	15.8
Power Drift [dB]	0.07

