

APPENDIX A: SAR TEST DATA

ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: HX52T4

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2437.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2437.0$ MHz; $\text{cond} = 1.77$ S/m; $\text{perm} = 40.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Facedown; Space: 0.00 mm

Test Date: 08/03/2025; Ambient Temp: 23.1°C; Tissue Temp: 21.4°C

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

Sensor-Surface: 3.0mm (VMS + 6p)

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

Phantom: SAM-FaceDown V10.0; Serial: 1048

Measurement SW: DASY Module SAR V16.4.0.5005

**Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna 2, 22 MHz Bandwidth,
Variant 1, Exp: Head| Ch. 6, 1Mbps**

Volume Scan (98.5 x 84.6): Measurement grid: $dx = 10$ mm, $dy = 10$ mm

Zoom Scan (40.0 x 40.0 x 31.2): Measurement grid: $dx = 5.0$ mm, $dy = 5.0$ mm, $dz = 1.5$ mm; Graded Ratio: 1.5

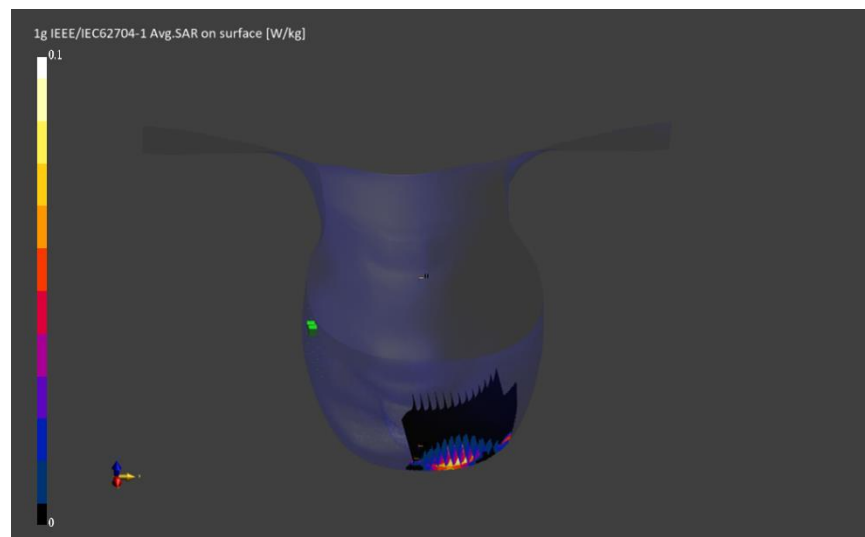
Reference Value = -0.00 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.067 W/kg

SAR(1 g) = 0.046 W/kg

Smallest distance from peaks to all points 3 dB below is 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 97.1 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: 9KLWW4

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2437.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2437.0$ MHz; $\text{cond} = 1.80$ S/m; $\text{perm} = 39.8$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/16/2025; Ambient Temp: 22.1°C; Tissue Temp: 22.0°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 V4.0; Serial: 1447

Measurement SW: DASY Module SAR V16.4.0.5005

**Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna 1, 22 MHz Bandwidth,
Variant 1, Exp: Extremity| Ch. 6, 1Mbps**

Area Scan (80.0 x 200.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (38.4 x 38.4 x 31.2): Measurement grid: $dx=4.8$ mm, $dy=4.8$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

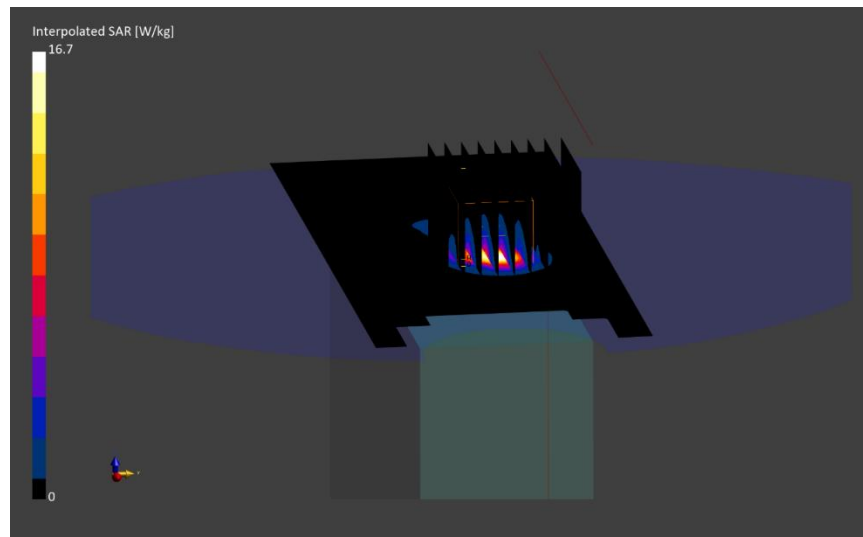
Reference Value = 15.46 W/kg; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(10 g) = 2.450 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 = 76.1 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: HX52T4

Communication System: UID:10117 - CAD, WLAN; MAIA: Y; Frequency: 5795.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5795.0$ MHz; $\text{cond} = 5.17$ S/m; $\text{perm} = 35.0$; $\text{density} = 1000$ kg/m³
Phantom Section: Facedown; Space: 0.00 mm

Test Date: 08/11/2025; Ambient Temp: 20.7°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7551; ConvF:(5.07,5.01,5.15); Calibrated: 2025-04-16
Sensor-Surface: 3.0mm (VMS + 6p)
Electronics: DAE4 Sn1323; Calibrated: 2025-04-15
Phantom: SAM-FaceDown V10.0; Serial: 1048
Measurement SW: DASY Module SAR V16.4.0.5005

**Mode: 5 GHz WIFI/ IEEE 802.11n, Antenna 1, 40 MHz Bandwidth, U-NII-3,
Variant 1, Exp: Head| Ch. 159, 13.5 Mbps**

Volume Scan (85.3 x 75.3): Measurement grid: $dx = \text{mm}$, $dy = \text{mm}$

Zoom Scan (44.0 x 48.0 x 22.9): Measurement grid: $dx = 4.0$ mm, $dy = 4.0$ mm, $dz = 1.4$ mm; Graded Ratio: 1.4

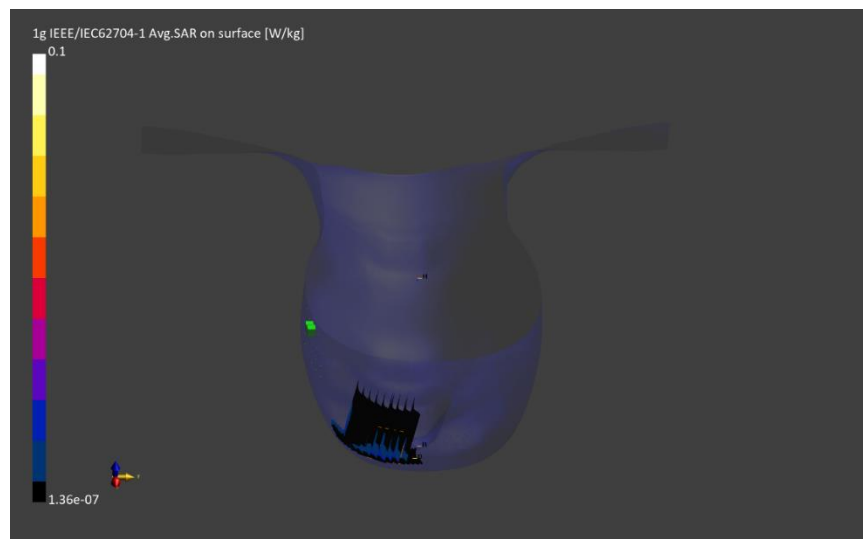
Reference Value = 0.00 W/kg; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.026 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 = 62.1 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: 9KLWW4

Communication System: UID:10544 - AAC, WLAN; MAIA: Y; Frequency: 5610.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5610.0$ MHz; $\text{cond} = 5.02$ S/m; $\text{perm} = 35.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/25/2025; Ambient Temp: 19.5°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7551; ConvF:(5.01,4.95,5.09); 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: 5 GHz WIFI/ IEEE 802.11ac, Antenna 1, 80 MHz Bandwidth, U-NII-2C,
Variant 2, Exp: Extremity| Back Side, Ch. 122, 29.3 Mbps**

Area Scan (200.0 x 120.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (31.9 x 29.0 x 25.0): Measurement grid: $dx=2.9$ mm, $dy=2.9$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

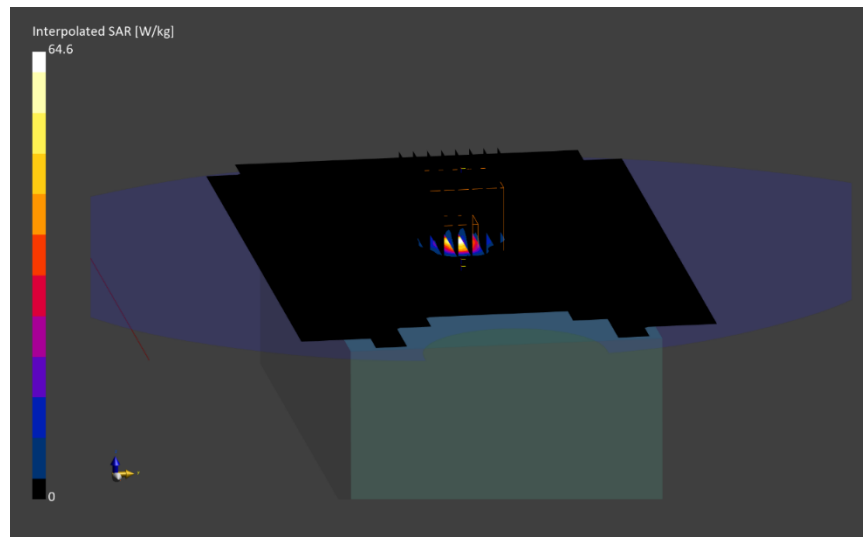
Reference Value = 42.33 W/kg; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 64.6 W/kg

SAR(10 g) = 2.770 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 = 63.6 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: 9KLWW4

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

Medium: 2450 Head; Medium parameters used:

$f = 2441.0$ MHz; $\text{cond} = 1.80$ S/m; $\text{perm} = 40.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Facedown; Space: 0.00 mm

Test Date: 08/05/2025; Ambient Temp: 21.9°C; Tissue Temp: 21.6°C

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

Sensor-Surface: 3.0mm (VMS + 6p)

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

Phantom: SAM-FaceDown V10.0; Serial: 1048

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Antenna 2, Variant 2, Exp: Head| Ch. 39, 1 Mbps

Area Scan (81.9 x 67.6): Measurement grid: $dx = 10$ mm, $dy = 10$ mm

Zoom Scan (50.0 x 50.0 x 31.2): Measurement grid: $dx = 5.0$ mm, $dy = 5.0$ mm, $dz = 1.5$ mm; Graded Ratio: 1.5

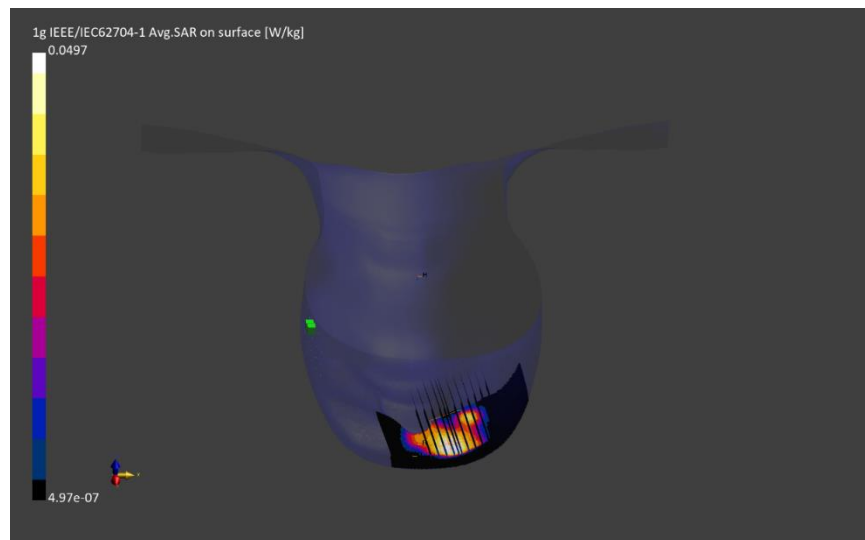
Reference Value = 0.02 W/kg; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.052 W/kg

Smallest distance from peaks to all points 3 dB below is 6.0 mm

Ratio of SAR at M2 to SAR at M1 = 93.1 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: YL32W5

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$ MHz; $\text{cond} = 1.75$ S/m; $\text{perm} = 40.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/18/2025; Ambient Temp: 19.9°C; Tissue Temp: 19.3°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, Antenna 1, Exp: Extremity| Front Side, Ch. 0, 1 Mbps

Area Scan (200.0 x 120.0): 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 = 7.93 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 8.85 W/kg

SAR(10 g) = 1.530 W/kg

Smallest distance from peaks to all points 3 dB below is 6.5 mm

Ratio of SAR at M2 to SAR at M1 = 74.9 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: YL32W5

Communication System: UID:10032 - CAA, CW; MAIA: Y; Frequency: 5731.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5731.0$ MHz; $\text{cond} = 5.10$ S/m; $\text{perm} = 35.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Facedown; Space: 0.00 mm

Test Date: 08/11/2025; Ambient Temp: 20.7°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7551; ConvF:(5.07,5.01,5.15); Calibrated: 2025-04-16

Sensor-Surface: 3.0mm (VMS + 6p)

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

Phantom: SAM-FaceDown V10.0; Serial: 1048

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB U-NII 3, Antenna NB UNII_L, Variant 1, Exp: Head| Ch. Low, 1 Mbps

Volume Scan (89.4 x 72.7): Measurement grid: $dx = 10$ mm, $dy = 10$ 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

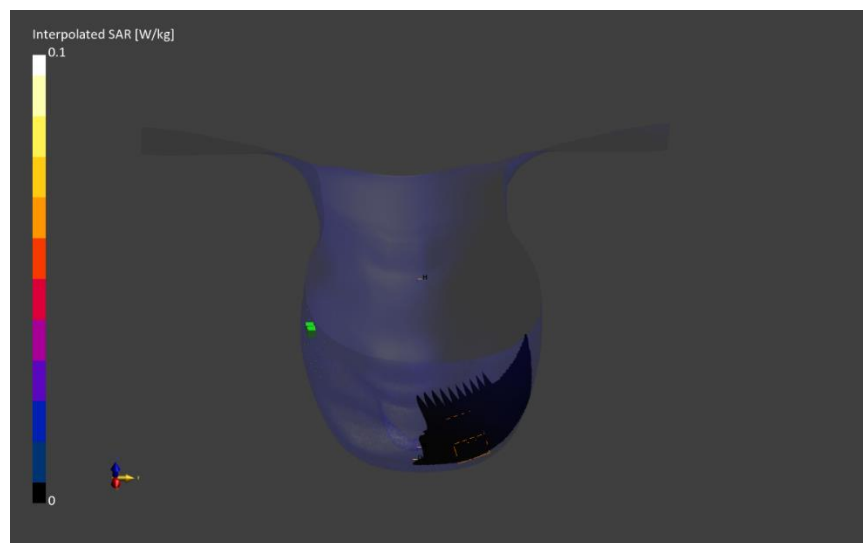
Reference Value = 0.00 W/kg; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.049 W/kg

Smallest distance from peaks to all points 3 dB below is 0.0 mm

Ratio of SAR at M2 to SAR at M1 = N/A %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: HX52T4

Communication System: UID:10032 - CAA, CW; MAIA: Y; Frequency: 5157.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5157.0 MHz; cond = 4.41 S/m; perm = 35.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/02/2025; Ambient Temp: 20.2°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7551; ConvF:(5.07,5.01,5.15); 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: NB U-NII 1, Antenna NB UNII_R, Exp: Extremity| Front Side, Low Ch, 1 Mbps

Area Scan (200.0 x 120.0): 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

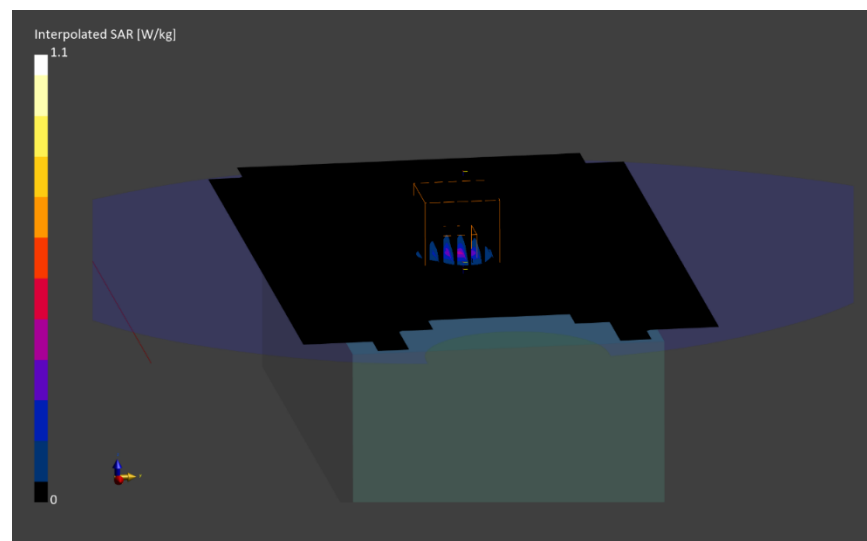
Reference Value = 0.72 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(10 g) = 0.073 W/kg

Smallest distance from peaks to all points 3 dB below is 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 65.4 %



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: 9KLWW4

Communication System: UID:10980 - AAA, CW; MAIA: Y; Frequency: 6342.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6342.0$ MHz; $\text{cond} = 5.81$ S/m; $\text{perm} = 34.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Facedown; Space: 0.00 mm

Test Date: 09/02/2025; Ambient Temp: 19.7°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7490; ConvF:(5.34,5.4,5.19); Calibrated: 2024-12-09

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

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

Phantom: SAM-FaceDown V10.0; Serial: 1048

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NB UNII-5, Antenna NB UNII_R (6 GHz), Variant 2, Exp: Head| Mid-High Ch.

Volume Scan (98.5 x 84.6): Measurement grid: $dx = \text{mm}$, $dy = \text{mm}$

Zoom Scan (37.4 x 37.4 x 22.9): Measurement grid: $dx = 3.4$ mm, $dy = 3.4$ mm, $dz = 1.4$ mm; Graded Ratio: 1.4

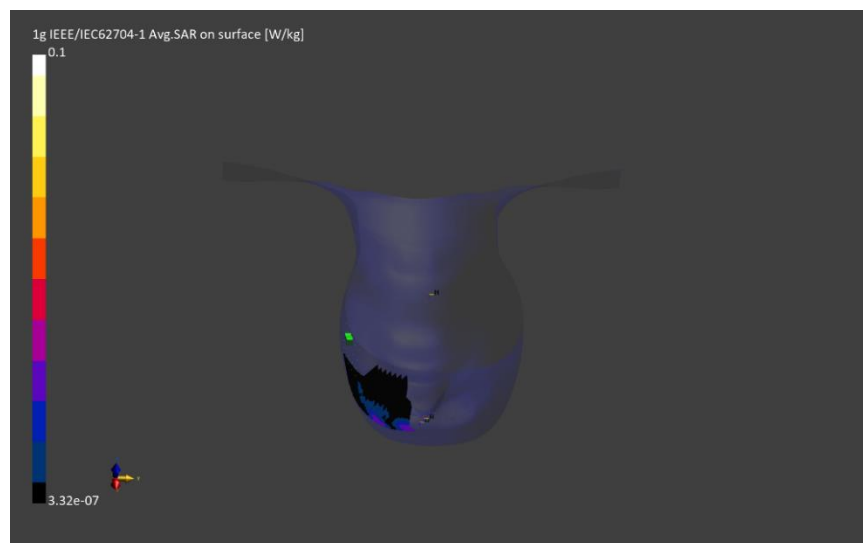
Reference Value = -0.01 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.021 W/kg

SAR(1 g) = 0.066 W/kg; APD (4cm²) = 0.791 W/m²

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

Ratio of SAR at M2 to SAR at M1 = N/A



ELEMENT

DUT: BCGA3416; Type: Head Mounted Device; Serial: YL32W5

Communication System: UID:10980 - AAA, CW; MAIA: Y; Frequency: 6420.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6420.0$ MHz; $\text{cond} = 6.04$ S/m; $\text{perm} = 34.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/22/2025; Ambient Temp: 20.3°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7490; ConvF:(5.34,5.4,5.19); Calibrated: 2024-12-09

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: NB UNII-5, Antenna NB UNII_L (6 GHz), Variant 1, Exp: Extremity| High Ch.

Area Scan (204.0 x 136.0): 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

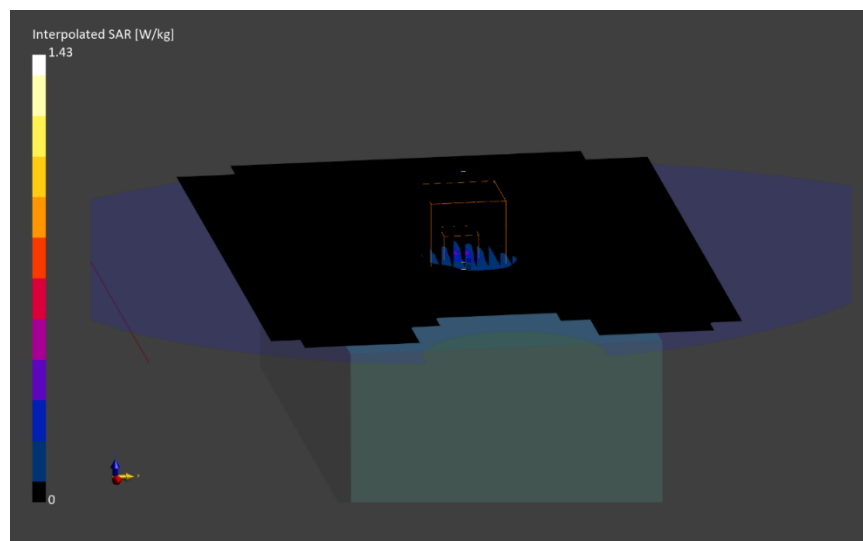
Reference Value = 0.05 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(10 g) = 0.067 W/kg; APD (4cm²) = 1.560 W/m²

Smallest distance from peaks to all points 3 dB below is 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.0 %



Date: 08/08/2025

NB UNII-5, Antenna NB UNII_R (6 GHz), Variant 1, Low Ch.

Device Under Test Properties

DUT	Serial Number	DUT Type
BCGA3416	HX52T4	Head Mounted Device

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Group, UID	Channel Number	Frequency [MHz]
5G	BACK	2.00	1098	6108000	6108.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9487_F1-55GHz, 2025-04-10	DAE4 Sn1408, 2024-10-10

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
Date	2025-08-08, 22:53
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.377
psPDtot+ [W/m²]	0.383
psPDmod+ [W/m²]	0.390
E _{max} [V/m]	15.2
Power Drift [dB]	0.12

