APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCGA2117; Type: Head Mounted Device; Serial: M99429MXDC

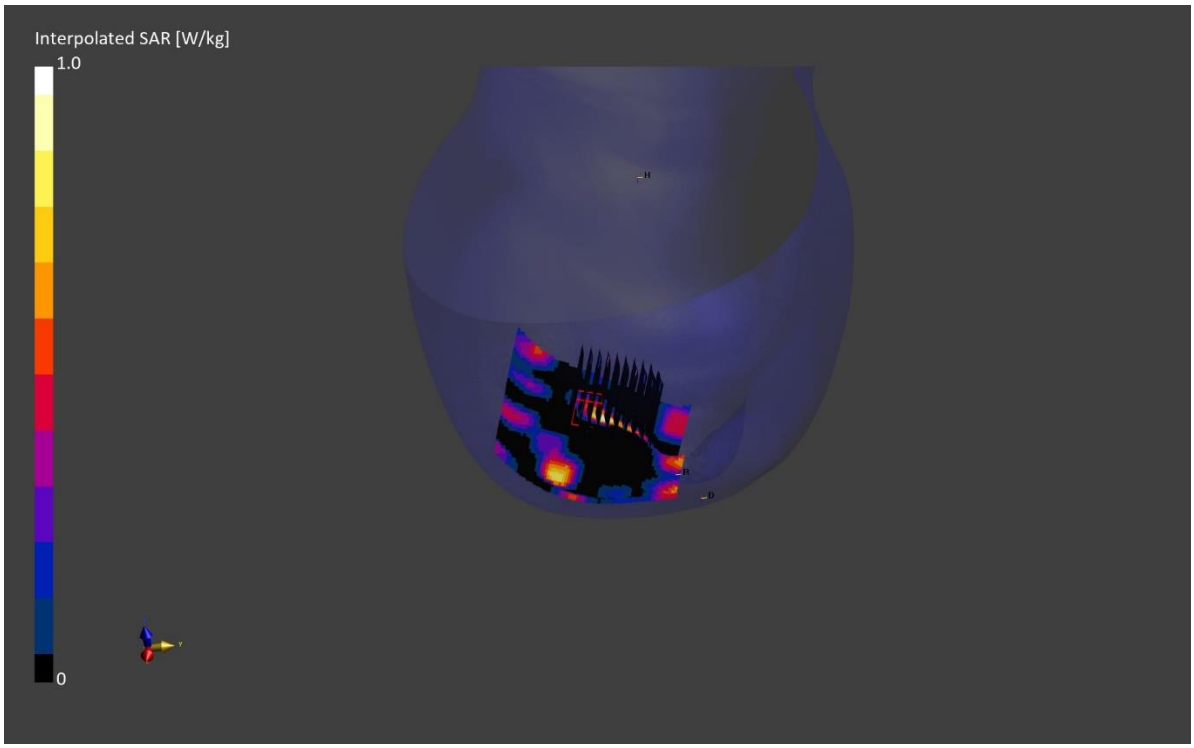
Communication System: UID: 10980 - AAA, CW; MAIA: Y; Frequency: 6186.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6186.0 MHz; cond = 5.74 S/m; perm = 34.2; density = 1000 kg/m^3
Phantom Section: Facedown; Space: 0.00 mm

Test Date: 07/15/2024; Ambient Temp: 20.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7532; ConvF:(5.24,4.91,5.59); Calibrated: 2024-04-16
Sensor-Surface: 3.0mm (VMS + 6p)
Electronics: DAE4 Sn501; Calibrated: 2024-04-09
Phantom: SAM-FaceDown V10.0; Serial: 1046
Measurement SW: DASY Module SAR V16.2.4.2524

Mode: NB UNII-5, Antenna NB UNII_R (6 GHz), Variant 1, Head SAR, Low-Mid Ch.

Volume Scan (98.5 x 84.6): Measurement grid: dx=10 mm, dy=10 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4
Reference Value = 0.00 W/kg; Power Drift =-0.20 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.015 W/kg; APD (4cm^2) = 0.064 W/m^2
Smallest distance from peaks to all points 3 dB below is N/A
Ratio of SAR at M2 to SAR at M1 = 50.6 %



ELEMENT

DUT: BCGA2117; Type: Head Mounted Device; Serial:M99429MXDC

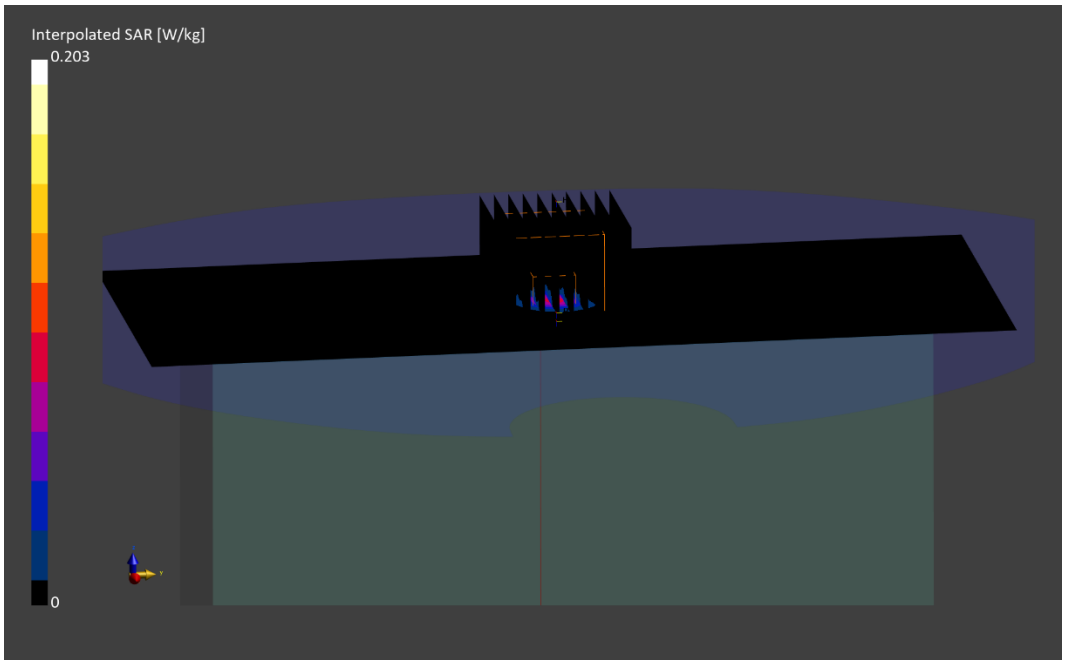
Communication System: UID:10980 - AAA, CW; MAIA: Y; Frequency: 6420.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6420.0 MHz; cond = 6.06 S/m; perm = 33.7; density = 1000 kg/m^3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/15/2024; Ambient Temp: 20.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7532; ConvF:(5.24,4.91,5.59); Calibrated: 2024-04-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn501; Calibrated: 2024-04-09
Phantom: Twin-SAM V4.0; Serial: 1447
Measurement SW: DASY Module SAR V16.2.4.2524

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

Area Scan (85.0 x 204.0): Measurement grid: dx=8.5 mm, dy=8.5 mm
Zoom Scan (22.0 x 22.0 x 22.0): 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 = 0.04 dB
Peak SAR (extrapolated) = 0.203 W/kg
SAR(10 g) = 0.009 W/kg; APD (4cm^2) = 0.212 W/m^2
Smallest distance from peaks to all points 3 dB below is 4.9 mm
Ratio of SAR at M2 to SAR at M1 = 54.7 %



ELEMENT

Date: 07/15/2024

Antenna NB UNII_R (5 GHz); Variant 1; Mid-High Channel; ULLA HDR8

Device Under Test Properties

DUT	Serial Number	DUT Type
BCGA2117	M99429MXDC	Head Mounted Device

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	Bottom	2.00	Mid-High	Custom Band	6342.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9487_F1-55GHz, 04/08/2024	DAE4 Sn793, 10/18/2024

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]	0.125 x 0.125
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS_{tot} avg [W/m²]	0.061
pS_n avg [W/m²]	0.049
E_{peak} [V/m]	7.45
Power Drift [dB]	n/a