

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: A3LNP940XMA; Type: Portable Laptop; Serial: 0041K

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2412.000 MHz

Medium: 2450 Head; Medium parameters used:

f = 2412.000 MHz; cond = 1.79 S/m; perm = 39.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 04/18/2024; Ambient Temp: 21.3°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7803; ConvF:(7.11,7.19,7.15); Calibrated: 2024-01-11

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

Electronics: DAE4 Sn1533; Calibrated: 2024-01-09

Phantom: Twin-SAM V8.0; Serial: 2060

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna 1, 22 MHz Bandwidth, Exp: Body| Bottom
Edge, Ch. 1, 1Mbps**

Area Scan (100.0 x 280.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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

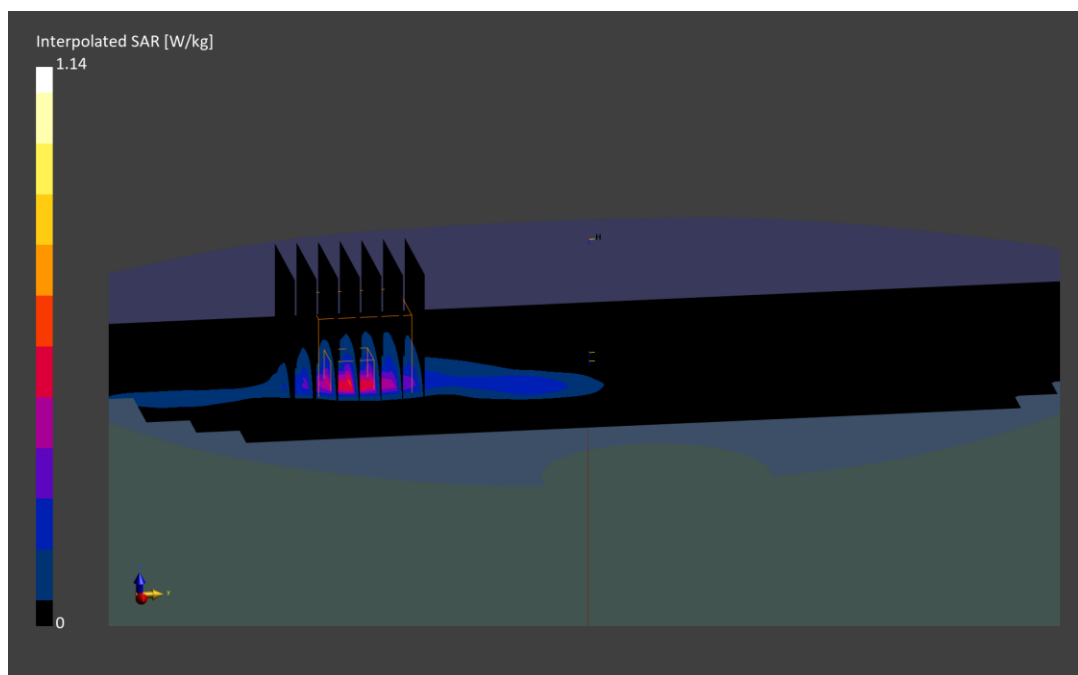
Reference Value = 0.33 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.445 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 = 75.3 %



ELEMENT

DUT: A3LNP940XMA; Type: Portable Laptop; Serial: 0015V

Communication System: UID:10544 - AAC, CW; MAIA: Y; Frequency: 5855.000 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5855.000 MHz; cond = 5.24 S/m; perm = 34.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 04/01/2024; Ambient Temp: 22.3°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7803; ConvF:(4.52,4.64,4.58); Calibrated: 2024-01-11

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

Electronics: DAE4 Sn1533; Calibrated: 2024-01-09

Phantom: Twin-SAM V8.0; Serial: 2060

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: 5 GHz WIFI/ IEEE 802.11ac, Antenna MIMO, 80 MHz Bandwidth, U-NII-4, Exp:
Body| Bottom Edge, Ch. 171, 58.5 Mbps**

Area Scan (100.0 x 260.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

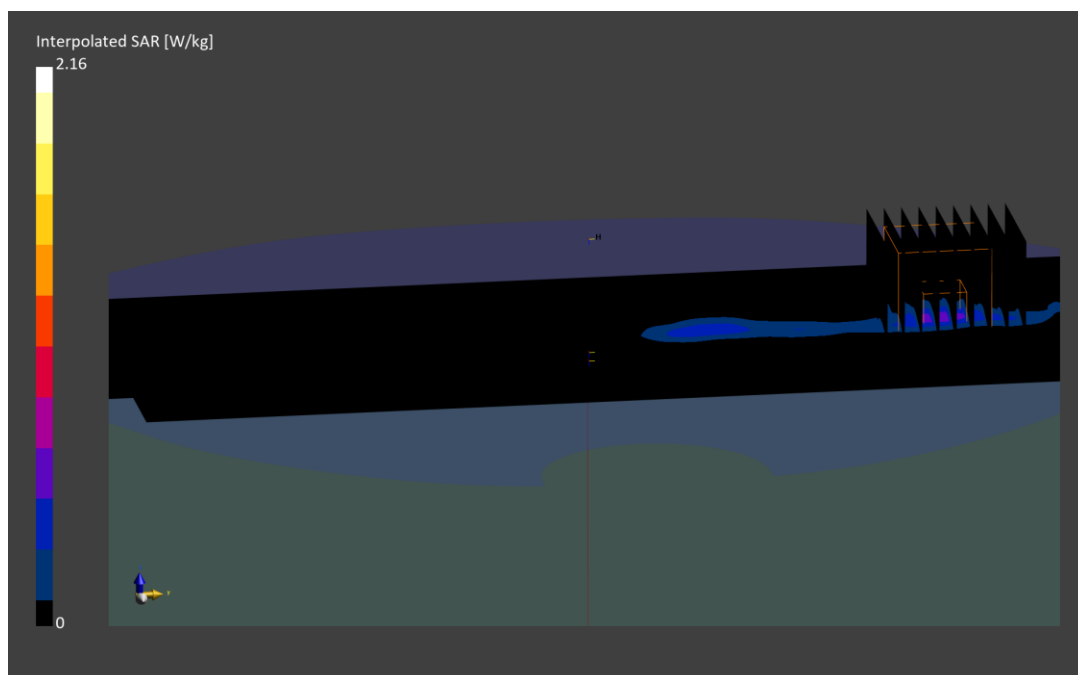
Reference Value = 0.16 W/kg; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.480 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 = 57.6 %



ELEMENT

DUT: A3LNP940XMA; Type: Portable Laptop; Serial: 0407A

Communication System: UID:10731 - AAC, WLAN; MAIA: Y; Frequency: 6305.000 MHz

Medium: 6000 Head; Medium parameters used:

f = 6305.000 MHz; cond = 5.95 S/m; perm = 33.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 04/08/2024; Ambient Temp: 20.5°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7410; ConvF:(5.55,5.55,5.55); Calibrated: 2023-07-07

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

Electronics: DAE4ip Sn1638; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 1979

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 6 GHz WIFI/ IEEE 802.11ax, Antenna MIMO, 80 MHz Bandwidth, U-NII-5, Exp:
Body| Bottom Edge, Ch. 71, MCS0 Mbps**

Area Scan (1000.0 x 1003.0): Measurement grid: dx=5.0 mm, dy=8.5 mm

Zoom Scan (23.8 x 23.8 x 22.0): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

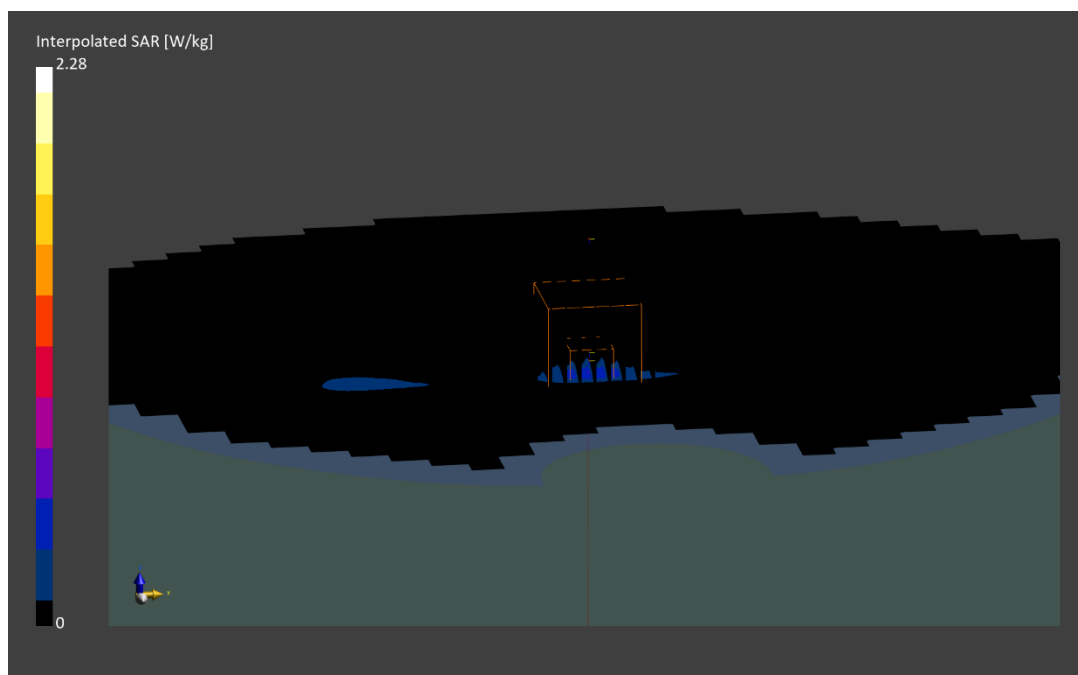
Reference Value = 0.19 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 0.430 W/kg; APD(4cm²) = 2.66 W/m²

Smallest distance from peaks to all points 3 dB below is 5.0 mm

Ratio of SAR at M2 to SAR at M1 = 51.0 %



ELEMENT

DUT: A3LNP940XMA; Type: Portable Laptop; Serial: 0032M

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

Medium: 2450 Head; Medium parameters used:

f = 2441.0 MHz; cond = 1.80 S/m; perm = 40.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 04/11/2024; Ambient Temp: 20.7°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7547; ConvF:(7.18,7.18,7.18); Calibrated: 2023-10-23

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

Electronics: DAE4 Sn1322; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 1937

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: 2.4 GHz Bluetooth, Antenna 1, Exp: Body| Bottom Edge, Ch. 39, 1 Mbps

Area Scan (1000.0 x 1000.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

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

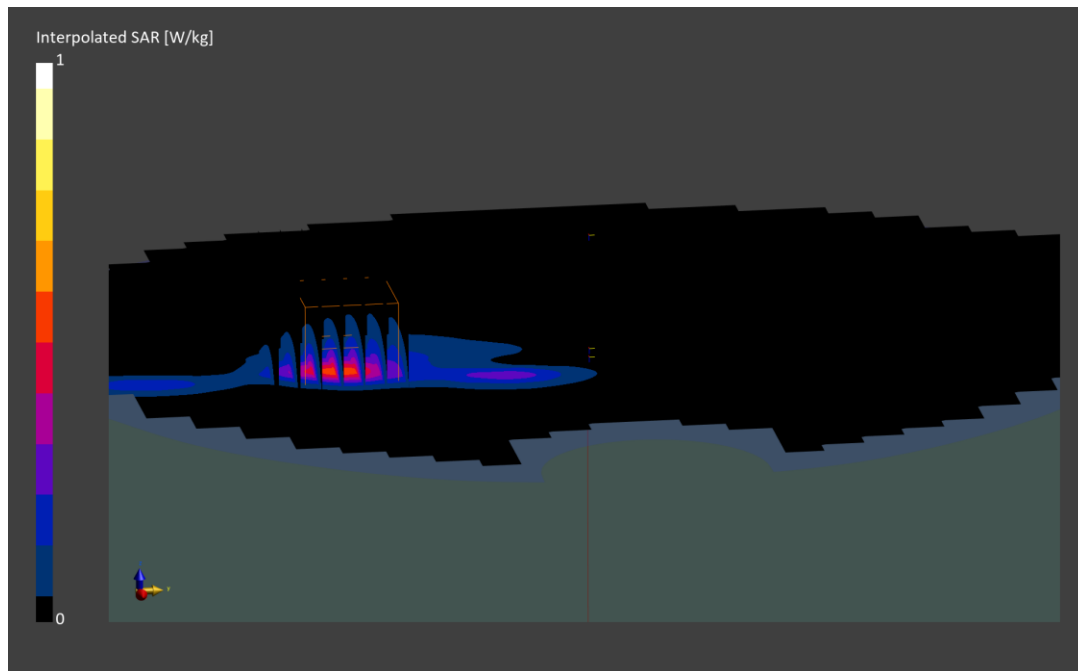
Reference Value = 0.33 W/kg; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.999 W/kg

SAR(1 g) = 0.411 W/kg

Smallest distance from peaks to all points 3 dB below is 7.7 mm

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



Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3LNP940XMA,	15.1 x 313.0 x 223.0	0407A	Portable Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE BOTTOM, 2.00	U-NII-5	WLAN, 10731-AAC	5985.0, 7	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air –	EUmmWV4 – SN9622_F1–55GHz, 2024–02–02	DAE4ip Sn1639, 2023–11–15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 150.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2024-04-11, 14:39
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	2.39
psPDtot+ [W/m²]	2.68
psPDmod+ [W/m²]	3.03
E _{max} [V/m]	46.0
Power Drift [dB]	0.20

