

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial: 0024M

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

Medium: 2450 Head; Medium parameters used:

f = 2412.000 MHz; cond = 1.78 S/m; perm = 37.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/08/2024; Ambient Temp: 21.3°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7565; ConvF:(7.73,6.62,6.61); Calibrated: 2024-01-16

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

Electronics: DAE4 Sn1466; Calibrated: 2024-01-16

Phantom: Twin-SAM V5.0; Serial: 1868

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna MIMO, 20 MHz Bandwidth, Exp: Body| Left Edge, Ch. 1, 1Mbps

Area Scan (60.0 x 360.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=2.6 mm, dy=2.6 mm, dz=1.2 mm; Graded Ratio: 1.2

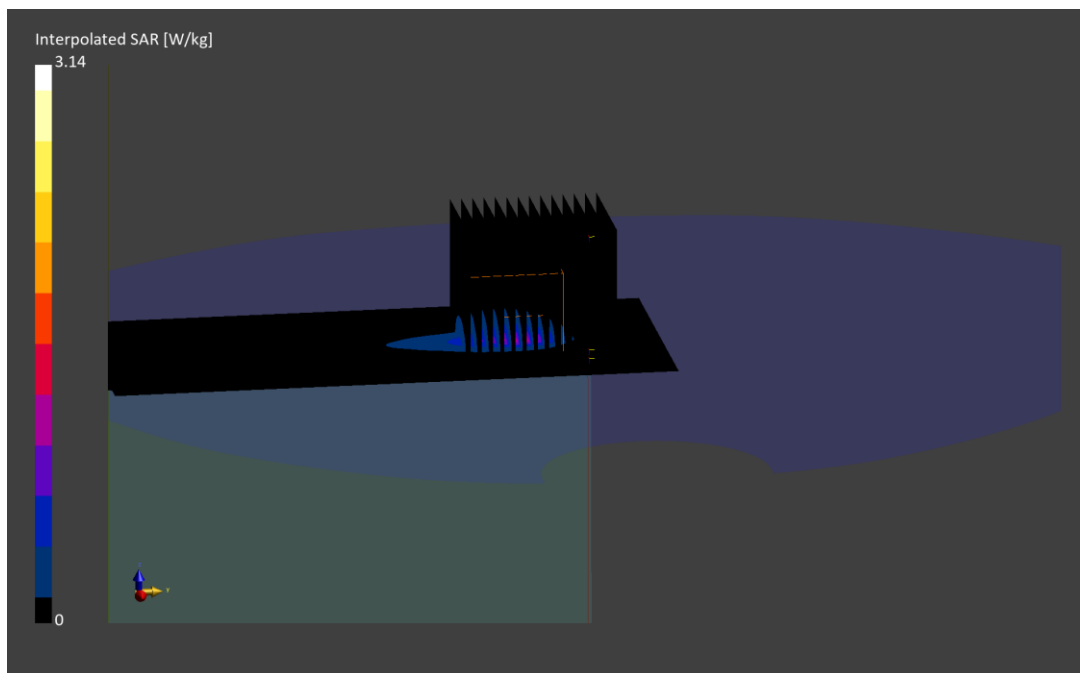
Reference Value = 0.50 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 0.740 W/kg

Smallest distance from peaks to all points 3 dB below is 4.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.2 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial: 0024M

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 = 37.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/17/2024; Ambient Temp: 22.5°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7565; ConvF:(7.73,6.62,6.61); Calibrated: 2024-01-16

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

Electronics: DAE4 Sn1466; Calibrated: 2024-01-16

Phantom: Twin-SAM V5.0; Serial: 1868

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna 1, 20 MHz Bandwidth, Exp: Body| Bottom Edge, Ch. 1, 1Mbps

Area Scan (60.0 x 360.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

Zoom Scan (32.0 x 32.0 x 30.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.5 mm; Graded Ratio: 1.5

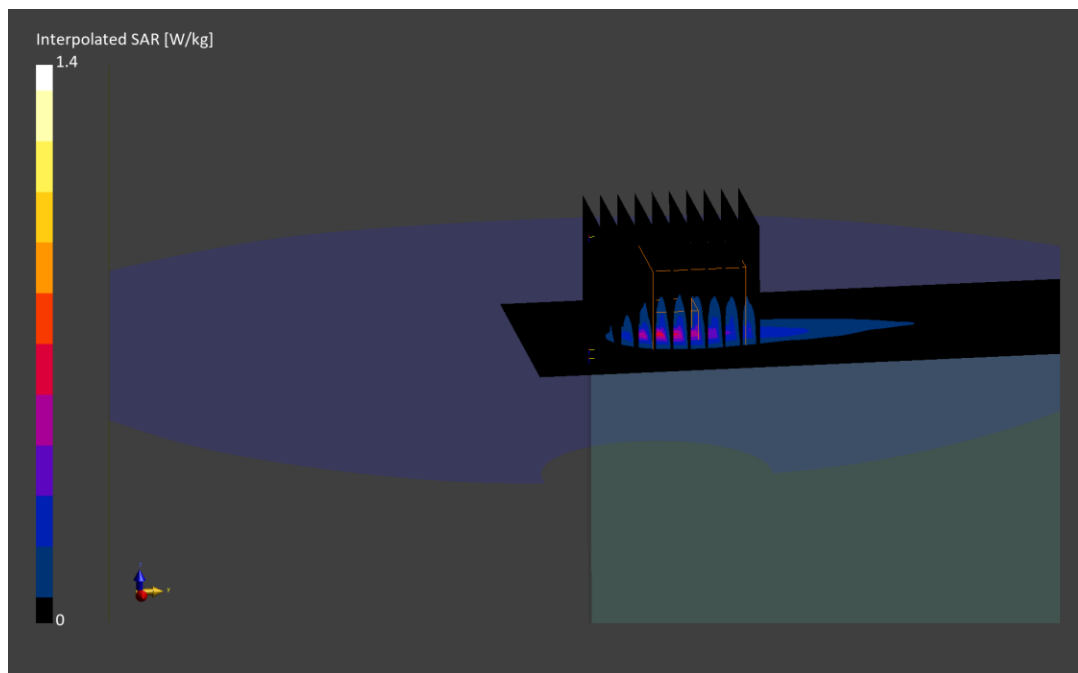
Reference Value = 0.27 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.380 W/kg

Smallest distance from peaks to all points 3 dB below is 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 57.8 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial: 0018M

Communication System: UID:10626 - AAD, WLAN; MAIA: Y; Frequency: 5690.000 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5690.000 MHz; cond = 5.06 S/m; perm = 34.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/01/2024; Ambient Temp: 21.8°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7402; ConvF:(4.1,4.4,4.13); Calibrated: 2024-05-10

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

Electronics: DAE4 Sn1502; Calibrated: 2024-05-08

Phantom: Twin-SAM V5.0; Serial: 1797

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 5 GHz WIFI/ IEEE 802.11ac, Antenna MIMO (1), 80 MHz Bandwidth, U-NII-2C,
Exp: Body| Back Side, Ch. 138, 58.5 Mbps**

Area Scan (240.0 x 360.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=2.5 mm, dy=2.5 mm, dz=1.2 mm; Graded Ratio: 1.2

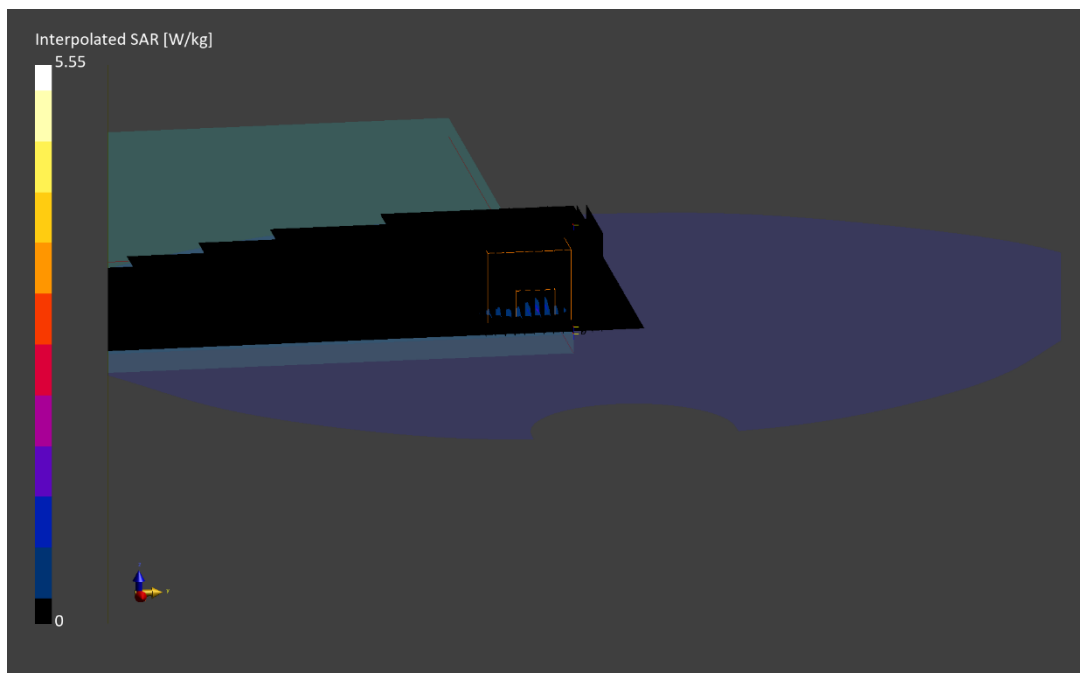
Reference Value = 0.29 W/kg; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 5.56 W/kg

SAR(1 g) = 0.846 W/kg

Smallest distance from peaks to all points 3 dB below is 3.5 mm

Ratio of SAR at M2 to SAR at M1 = 61.0 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial: 1937M

Communication System: UID:10626 - AAD, WLAN; MAIA: Y; Frequency: 5775.000 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5775.000$ MHz; $\text{cond} = 5.22$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/08/2024; Ambient Temp: 21.3°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7402; ConvF:(4.1,4.4,4.13); Calibrated: 2024-05-10

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

Electronics: DAE4 Sn1502; Calibrated: 2024-05-08

Phantom: Twin-SAM V5.0; Serial: 1797

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 5 GHz WIFI/ IEEE 802.11ac, Antenna MIMO, 80 MHz Bandwidth, U-NII-3, Exp:
Body| Bottom Edge, Ch. 155, 58.5 Mbps**

Area Scan (60.0 x 360.0): 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

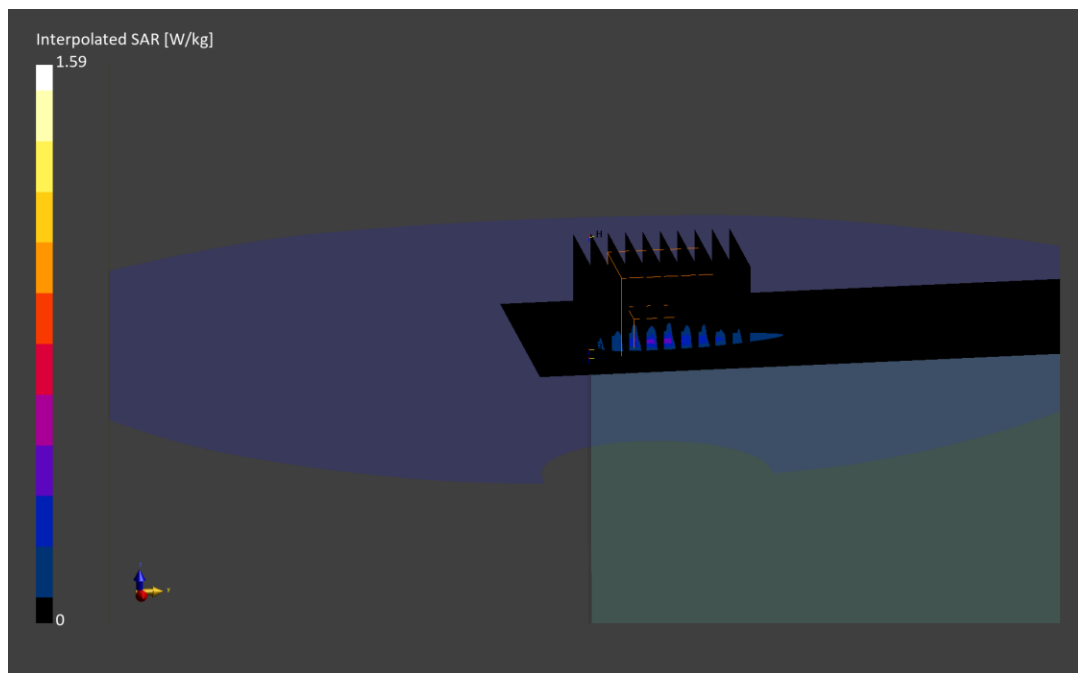
Reference Value = 0.15 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.309 W/kg

Smallest distance from peaks to all points 3 dB below is 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 54.6 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial:0002M

Communication System: UID:10719 - AAC, WLAN; MAIA: Y; Frequency: 5985.000 MHz

Medium: 6000 Head; Medium parameters used:

f = 5985.000 MHz; cond = 5.31 S/m; perm = 36.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/15/2024; Ambient Temp: 19.9°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7421; ConvF:(5.35,5.35,5.35); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn604; Calibrated: 2024-03-06

Phantom: Twin-SAM V8.0; Serial: 2067

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 6 GHz WIFI/ IEEE 802.11ax, Antenna 1, 80 MHz Bandwidth, U-NII-5, Exp: Body|
Back Side, Ch. 7, 34 Mbps**

Area Scan (240.0 x 360.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=2.6 mm, dy=2.6 mm, dz=1.2 mm; Graded Ratio: 1.2

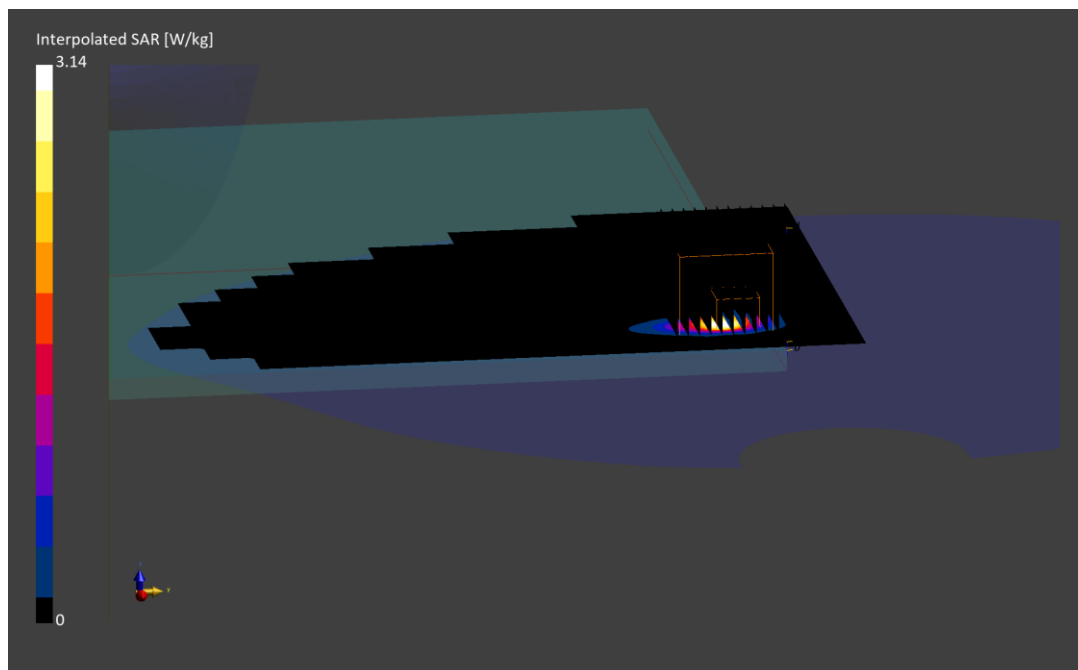
Reference Value = 0.36 W/kg; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 0.398 W/kg; APD(4cm²) = 2.070 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 = 48.9 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial:0021M

Communication System: UID:10719 - AAC, WLAN; MAIA: Y; Frequency: 5985.000 MHz

Medium: 6000 Head; Medium parameters used:

f = 5985.000 MHz; cond = 5.47 S/m; perm = 34.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/05/2024; Ambient Temp: 23.0°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7659; ConvF:(5.95,5.95,5.95); Calibrated: 2024-04-17

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

Electronics: DAE4 Sn1407; Calibrated: 2024-04-18

Phantom: Twin-SAM V8.0; Serial: 2064

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 6 GHz WIFI/ IEEE 802.11ax, Antenna 1, 80 MHz Bandwidth, U-NII-5, Exp: Body|
Bottom Edge, Ch. 7, 34 Mbps**

Area Scan (48.0 x 360.0): Measurement grid: dx=8.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=3.6 mm, dy=3.6 mm, dz=1.4 mm; Graded Ratio: 1.4

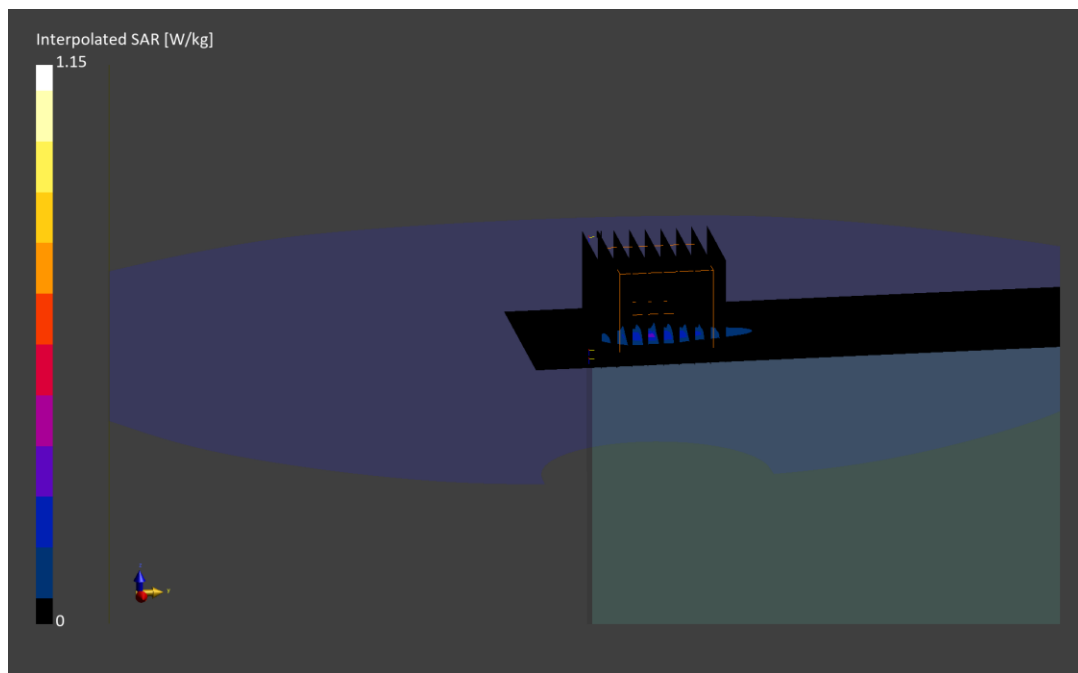
Reference Value = 0.19 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.193 W/kg; APD(4cm²) = 1.13 W/m²

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

Ratio of SAR at M2 to SAR at M1 = 48.5 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial: 0024M

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.000 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2441.000$ MHz; $\text{cond} = 1.83$ S/m; $\text{perm} = 38.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/15/2024; Ambient Temp: 20.9°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7565; ConvF:(7.73,6.62,6.61); Calibrated: 2024-01-16

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

Electronics: DAE4 Sn1466; Calibrated: 2024-01-16

Phantom: Twin-SAM V5.0; Serial: 1868

Measurement SW: DASY Module SAR V16.2.4.2524

Mode: 2.4 GHz Bluetooth, Antenna 2, Exp: Body| Right Edge, Ch. 39, 1 Mbps

Area Scan (60.0 x 360.0): Measurement grid: $dx=5.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=3.9$ mm, $dy=3.9$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

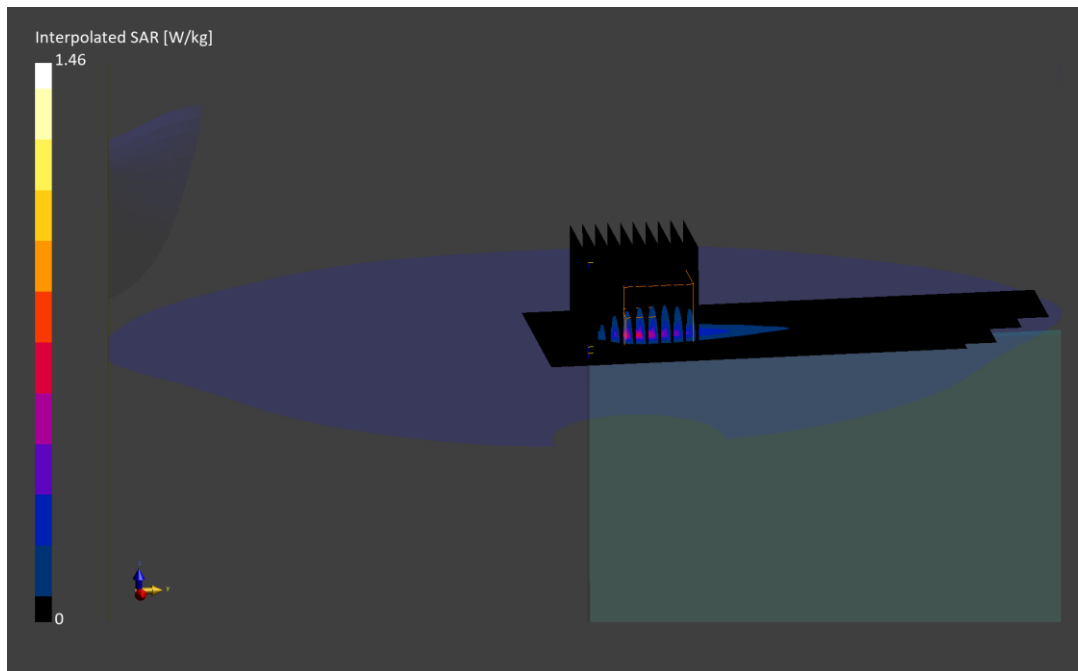
Reference Value = 0.29 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.408 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.6 %



ELEMENT

DUT: A3LSMX920; Type: Portable Computing Device; Serial: 0024M

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.000 MHz

Medium: 2450 Head; Medium parameters used:

f = 2441.000 MHz; cond = 1.83 S/m; perm = 38.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/15/2024; Ambient Temp: 20.9°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7565; ConvF:(7.73,6.62,6.61); Calibrated: 2024-01-16

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

Electronics: DAE4 Sn1466; Calibrated: 2024-01-16

Phantom: Twin-SAM V5.0; Serial: 1868

Measurement SW: DASY Module SAR V16.2.4.2524

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

Area Scan (60.0 x 360.0): 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

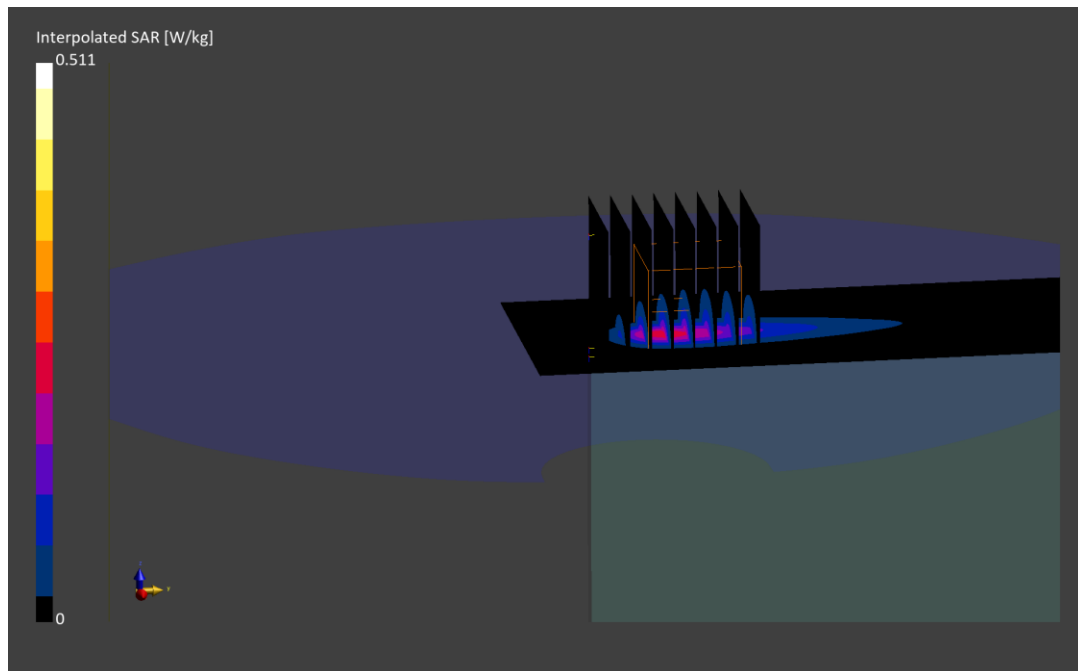
Reference Value = 0.12 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.167 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 = 70.1 %



Element

Date: 2024-07-28

Measurement Group

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMX920	0148M	Portable Computing Device

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	EDGE LEFT	2.00	U-NII-5	5985.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9622_F1-55GHz, 2024-02-02	DAE4ip Sn1639, 2023-11-15

Software Setup

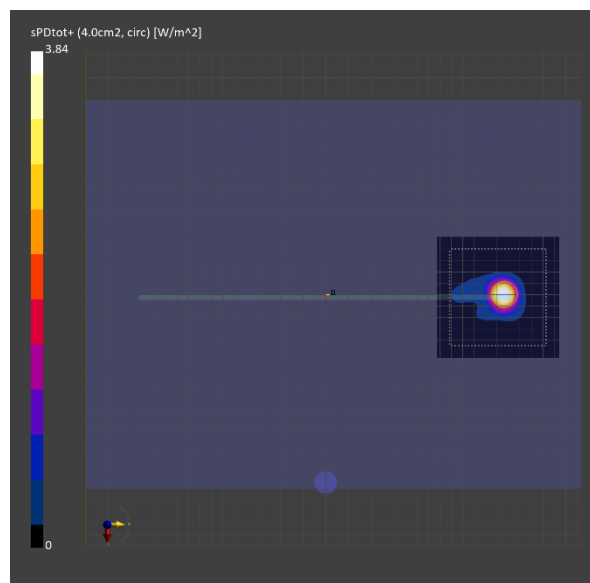
Software	Software Version
cDasy6 Module mmWave	3.2.0.1840

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	3.84
pS _n avg [W/m ²]	2.88
E _{peak} [V/m]	78.4
Power Drift [dB]	-0.13



Element

Date: 2024-07-28

Measurement Group

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMX920	0148M	Portable Computing Device

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	EDGE BOTTOM	2.00	U-NII-7	6545.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9622_F1-55GHz, 2024-02-02	DAE4ip Sn1639, 2023-11-15

Software Setup

Software	Software Version
cDasy6 Module mmWave	3.2.0.1840

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	0.439
pS _n avg [W/m ²]	0.351
E _{peak} [V/m]	22.8
Power Drift [dB]	-0.13

