

APPENDIX A: TEST PLOTS

PCTEST

DUT: A3LSMS906U; Type: Portable Handset; Serial Number: UI70284M

Communication System: UID:10683 - AAC, WLAN; MAIA: Y; Frequency: 6275.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6275.0$ MHz; $\text{cond} = 5.85$ S/m; $\text{perm} = 33.8$; $\text{density} = 1000$ kg/m³

Phantom Section: Right Head; Space: 0.00 mm

Test Date: 10/12/2021; Ambient Temp: 22.5°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7570; ConvF:(5.4,5.4,5.4); Calibrated: 2020-12-15

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

Electronics: DAE4 Sn859; Calibrated: 2020-12-07

Phantom: Twin-SAM V8.0 Right; Serial: 1981

Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 20 MHz Bandwidth, Right Head, Cheek,
Ch. 65, 16.3 Mbps**

Area Scan (119.0 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

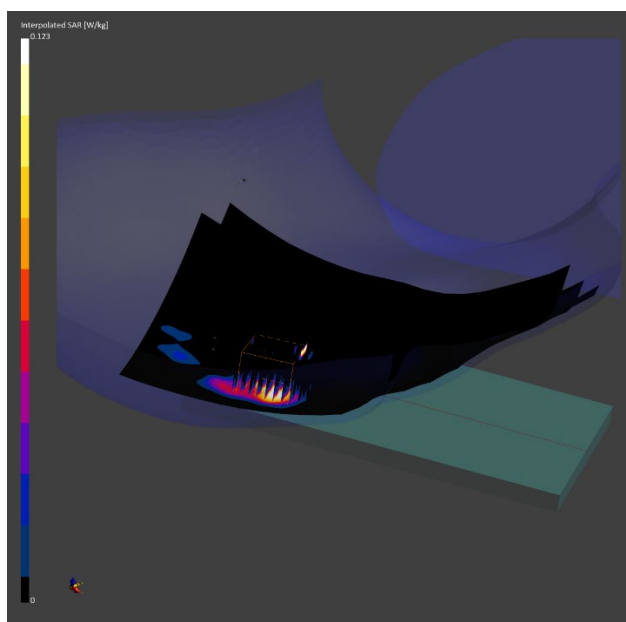
Reference Value = 0.07 W/kg; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.460 W/kg

SAR(1 g) = 0.098 W/kg; APD(4 cm²) = 0.738 W/m²

Smallest distance from peaks to all points 3 dB below is 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 58.9 %



PCTEST

DUT: A3LSMS906U; Type: Portable Handset; Serial Number: UI70284M

Communication System: UID:10683 - AAC, WLAN; MAIA: Y; Frequency: 6275.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6275.0 MHz; cond = 5.85 S/m; perm = 33.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 15.00 mm

Test Date: 10/12/2021; Ambient Temp: 22.5°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7570; ConvF:(5.4,5.4,5.4); Calibrated: 2020-12-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn859; Calibrated: 2020-12-07
Phantom: Twin-SAM V8.0 Right; Serial: 1981
Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 20 MHz Bandwidth, Body SAR,
Ch. 65, Back Side, 16.3 Mbps**

Area Scan (119.0 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

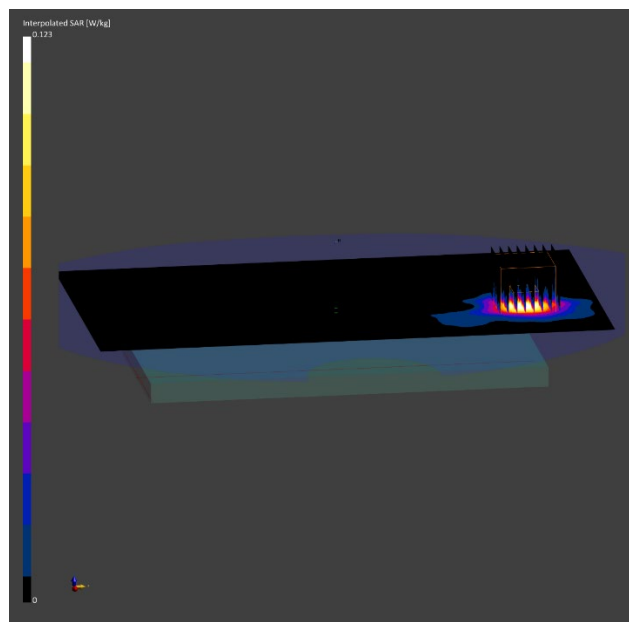
Reference Value = 0.07 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.092 W/kg; APD(4 cm²) = 0.724 W/m²

Smallest distance from peaks to all points 3 dB below is 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.4 %



PCTEST

DUT: A3LSMS906U; Type: Portable Handset; Serial Number: UI70284M

Communication System: UID:10683 - AAC, WLAN; MAIA: Y; Frequency: 6075.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6075.0$ MHz; $\text{cond} = 5.57$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/12/2021; Ambient Temp: 22.5°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7570; ConvF:(5.4,5.4,5.4); Calibrated: 2020-12-15

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

Electronics: DAE4 Sn859; Calibrated: 2020-12-07

Phantom: Twin-SAM V8.0 Right; Serial: 1981

Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 20 MHz Bandwidth, Body SAR,
Ch. 25, Back Side, 16.3 Mbps**

Area Scan (119.0 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: $dx=3.2$ mm, $dy=3.2$ mm, $dz=1.2$ mm; Graded
Ratio: 1.2

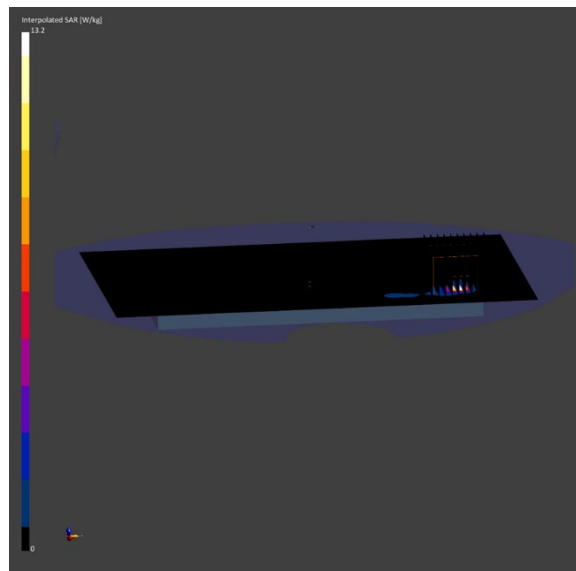
Reference Value = 2.13 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(10 g) = 0.434 W/kg; APD(4 cm²) = 10.400 W/m²

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

Ratio of SAR at M2 to SAR at M1 = 63.0 %



PCTEST

Date: 10/15/2021

MIMO; Channel 209; 802.11ax

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI91224M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	BACK	2.00	209	WLAN, 10683	6995.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

Software	Software Version
cDASY6 Module mmWave	2.4.2.62

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	110 x 110
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	4.25
pS _n avg [W/m ²]	3.43
E _{peak} [V/m]	59.6
Power Drift [dB]	0.09

