

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2025/10/23

102_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ch6

Communication System: UID 0, WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.729$ S/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3282; ConvF(4.79, 4.78, 4.82); Calibrated: 2025/1/23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2025/4/16
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: 1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Area Scan (101x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.340 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.807 V/m; Power Drift = -0.17 dB

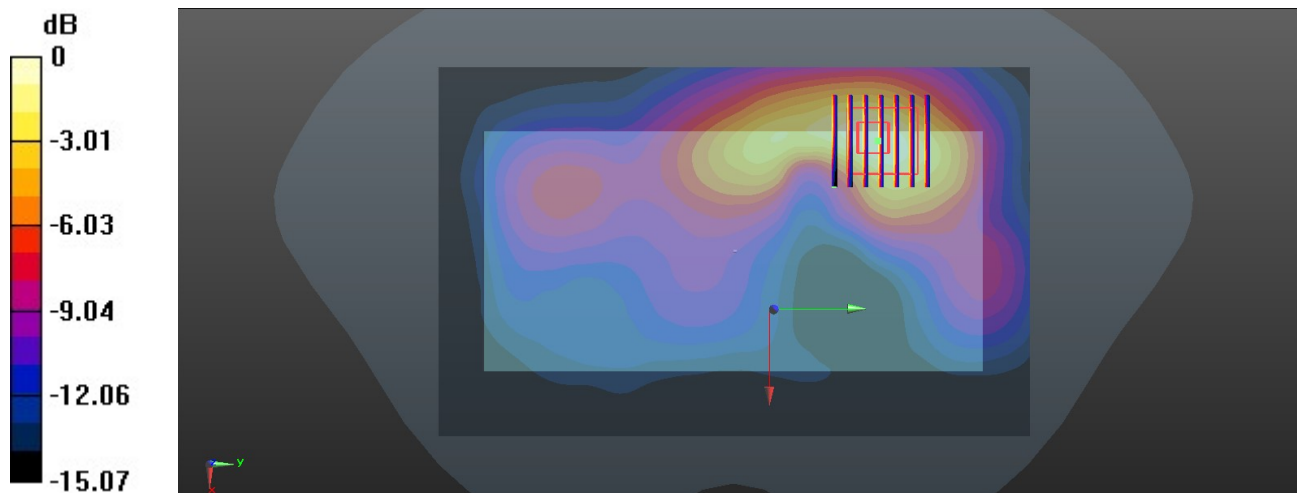
Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.142 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 0.347 W/kg



0 dB = 0.347 W/kg = -4.60 dBW/kg

Date: 2025/11/3

103_WLAN5GHz_802.11ac-VHT160 MCS0_Back_10mm_Ch50

Communication System: IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5250.000 MHz; Duty Cycle: 1:1

Medium: Head Simulating Liquid Medium parameters used: $f = 5250.000$ MHz; $\sigma = 4.54$ S/m; $\epsilon_r = 35.1$

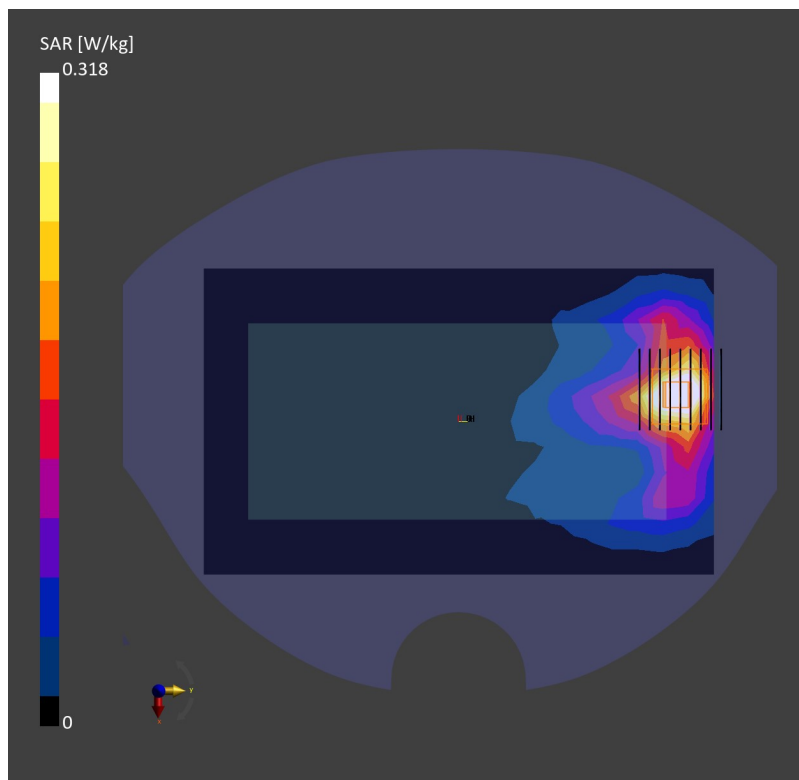
Ambient Temperature: 23.2°C; Liquid Temperature: 22.2°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(6.08, 5.97, 6.00); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10554-AAE

Area Scan (120.0 mm x 200.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 0.296 W/kg; SAR (10g) = 0.114 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm
Power Drift = 0.06 dB
SAR (1g) = 0.318 W/kg; SAR (10g) = 0.114 W/kg
Smallest distance from peaks to all points 3 dB below = 10.1 mm
Ratio of SAR at M2 to SAR at M1 = 61.8 %



Date: 2025/11/4

104_WLAN5GHz_802.11ac-VHT160 MCS0_Back_10mm_Ch114

Communication System: IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5570.000 MHz; Duty Cycle: 1:1

Medium: Head Simulating Liquid Medium parameters used: $f = 5570.000$ MHz; $\sigma = 4.88$ S/m; $\epsilon_r = 34.5$

Ambient Temperature: 23.6°C; Liquid Temperature: 22.4°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.54, 5.44, 5.47); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10554-AAE

Area Scan (120.0 mm x 200.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 0.250 W/kg; SAR (10g) = 0.096 W/kg;

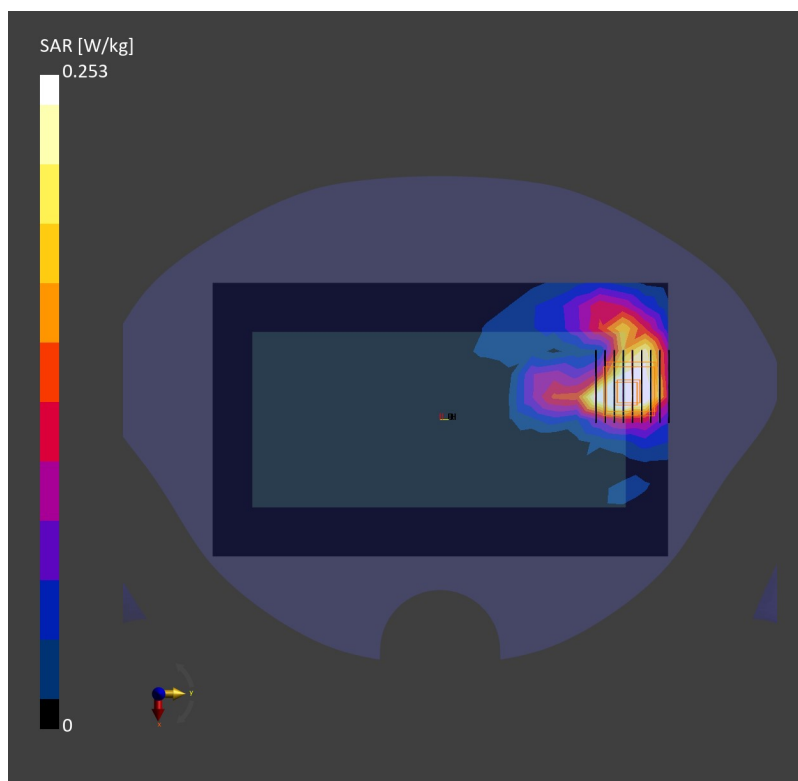
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.17 dB

SAR (1g) = 0.253 W/kg; SAR (10g) = 0.092 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.2 %



Date: 2025/11/5

105_WLAN5GHz_802.11ac-VHT80 MCS0_Back_10mm_Ch155

Communication System: IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775.000 MHz; Duty Cycle: 1:1006

Medium: Head Simulating Liquid Medium parameters used: $f = 5775.000$ MHz; $\sigma = 5.12$ S/m; $\epsilon_r = 34.2$

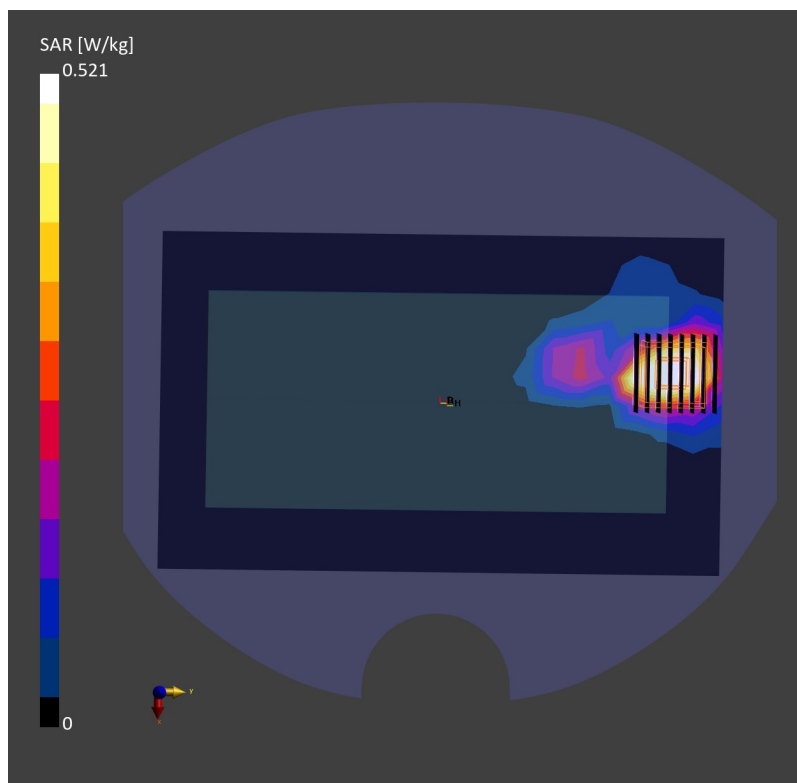
Ambient Temperature: 23.4°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.52, 5.42, 5.44); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10544-AAD

Area Scan (120.0 mm x 200.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 0.498 W/kg; SAR (10g) = 0.182 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm
Power Drift = -0.05 dB
SAR (1g) = 0.521 W/kg; SAR (10g) = 0.184 W/kg
Smallest distance from peaks to all points 3 dB below = 8.2 mm
Ratio of SAR at M2 to SAR at M1 = 56.4 %



Date: 2025/10/26

106_WLAN6GHz_802.11ax-HE160 MCS0_Back_10mm_Ch15

Communication System: IEEE 802.11ax (160MHz, MCS0); Frequency: 6025.000

MHz; Duty Cycle: 1:1.002

Medium: Head Simulating Liquid Medium parameters used: $f = 6025.000$ MHz; $\sigma = 5.48$ S/m; $\epsilon_r = 34.3$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.4°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.68, 5.58, 5.6); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10755-AAC

Area Scan (119.0 mm x 204.0 mm): Measurement Grid: 8.5 mm x 8.5 mm

SAR (1g) = 0.018 W/kg; SAR (10g) = 0.007 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm

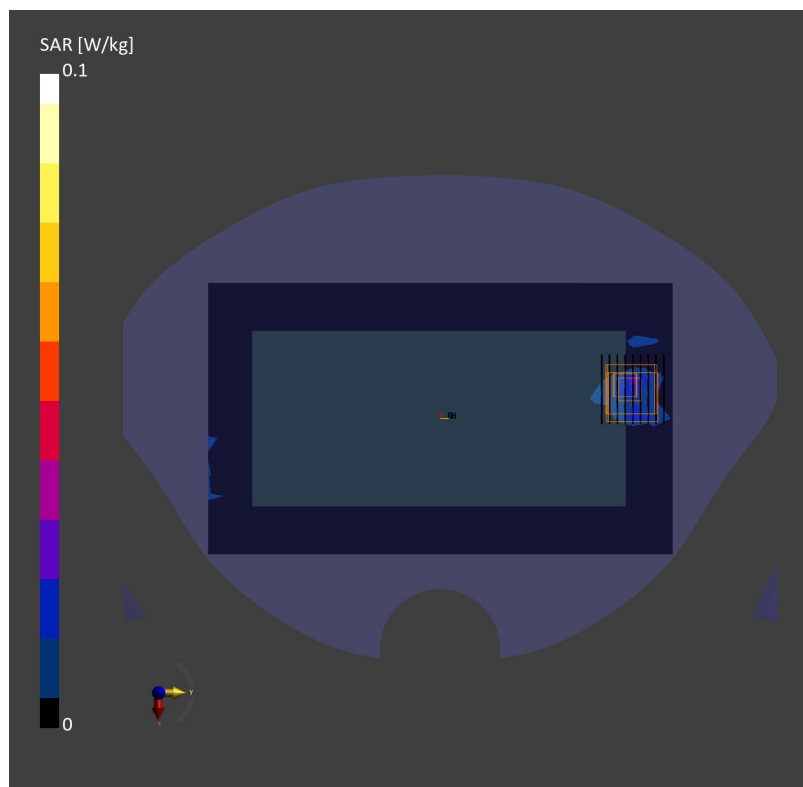
Power Drift = -0.06 dB

SAR (1g) = 0.010 W/kg; SAR (10g) = 0.002 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 79.0 %

psAPD (4.0cm², sq) = 0.040 [W/m²]



Date: 2025/11/3

107_WLAN5GHz_802.11ac-VHT80 MCS0_Top Side_0mm_Ch42

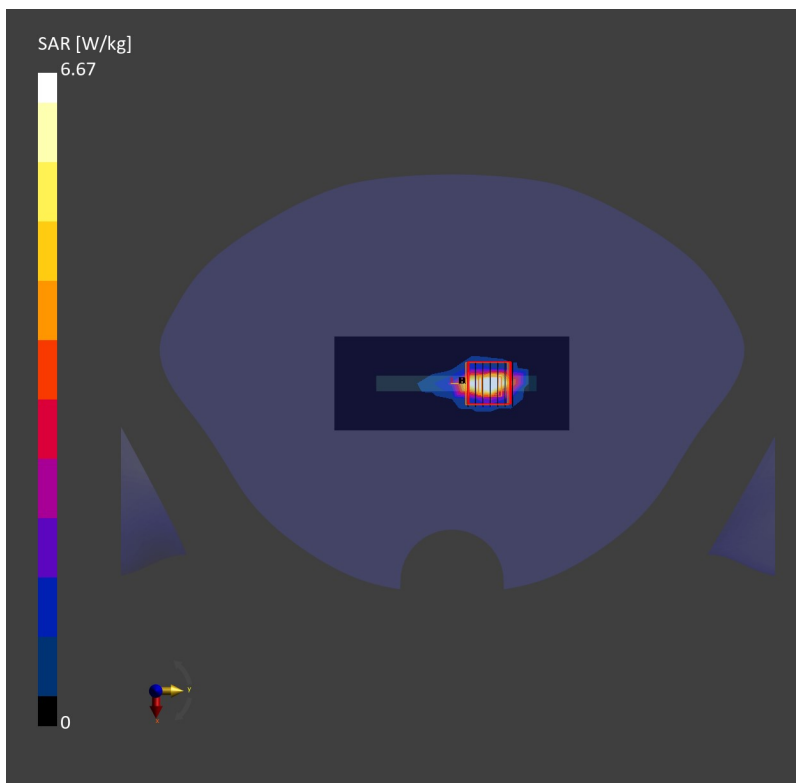
Communication System: IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5210.0 MHz; Duty Cycle: 1:1.006
Medium: HSL Medium parameters used: $f = 5210.0$ MHz; $\sigma = 4.49$ S/m; $\epsilon_r = 35.2$
Ambient Temperature: 23.2°C; Liquid Temperature: 22.2°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(6.08, 5.97, 6.00); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10544-AAC

Area Scan (48.0 mm x 120.0 mm): Measurement Grid: 8.0 mm x 10.0 mm
SAR (1g) = 5.48 W/kg; SAR (10g) = 1.46 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.8 mm x 3.8 mm x 1.4 mm
Power Drift = 0.09 dB
SAR (1g) = 6.67 W/kg; SAR (10g) = 1.70 W/kg
Smallest distance from peaks to all points 3 dB below = 4.6 mm
Ratio of SAR at M2 to SAR at M1 = 58.3 %



Date: 2025/11/3

108_WLAN5GHz_802.11ac-VHT160 MCS0_Top Side_0mm_Ch50

Communication System: IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5250.0 MHz; Duty Cycle: 1:1

Medium: HSL Medium parameters used: $f = 5250.0$ MHz; $\sigma = 4.54$ S/m; $\epsilon_r = 35.1$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.2°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(6.08, 5.97, 6.00); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10554-AAD

Area Scan (48.0 mm x 120.0 mm): Measurement Grid: 8.0 mm x 10.0 mm

SAR (1g) = 5.86 W/kg; SAR (10g) = 1.56 W/kg;

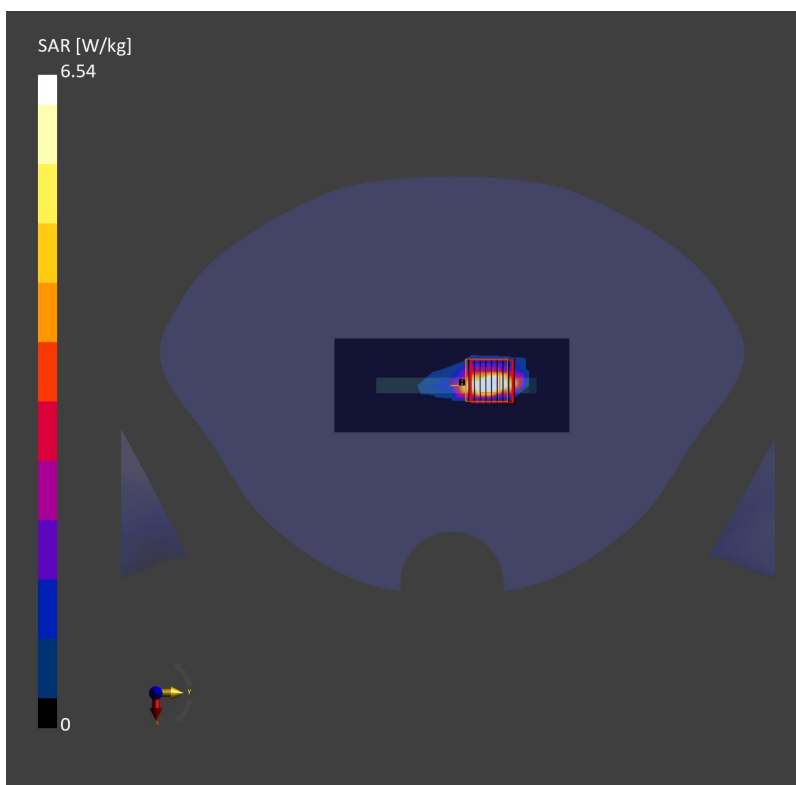
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 2.9 mm x 2.9 mm x 1.2 mm

Power Drift = 0.01 dB

SAR (1g) = 6.54 W/kg; SAR (10g) = 1.70 W/kg

Smallest distance from peaks to all points 3 dB below = 4.1 mm

Ratio of SAR at M2 to SAR at M1 = 61.9 %



Date: 2025/11/4

109_WLAN5GHz_802.11ac-VHT160 MCS0_Right Side_0mm_Ch114

Communication System: IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5570.0 MHz; Duty Cycle: 1:1

Medium: HSL Medium parameters used: $f = 5570.0$ MHz; $\sigma = 4.88$ S/m; $\epsilon_r = 34.5$

Ambient Temperature: 23.6°C; Liquid Temperature: 22.4°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.54, 5.44, 5.47); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10554-AAD

Area Scan (48.0 mm x 200.0 mm): Measurement Grid: 8.0 mm x 10.0 mm

SAR (1g) = 3.59 W/kg; SAR (10g) = 0.858 W/kg;

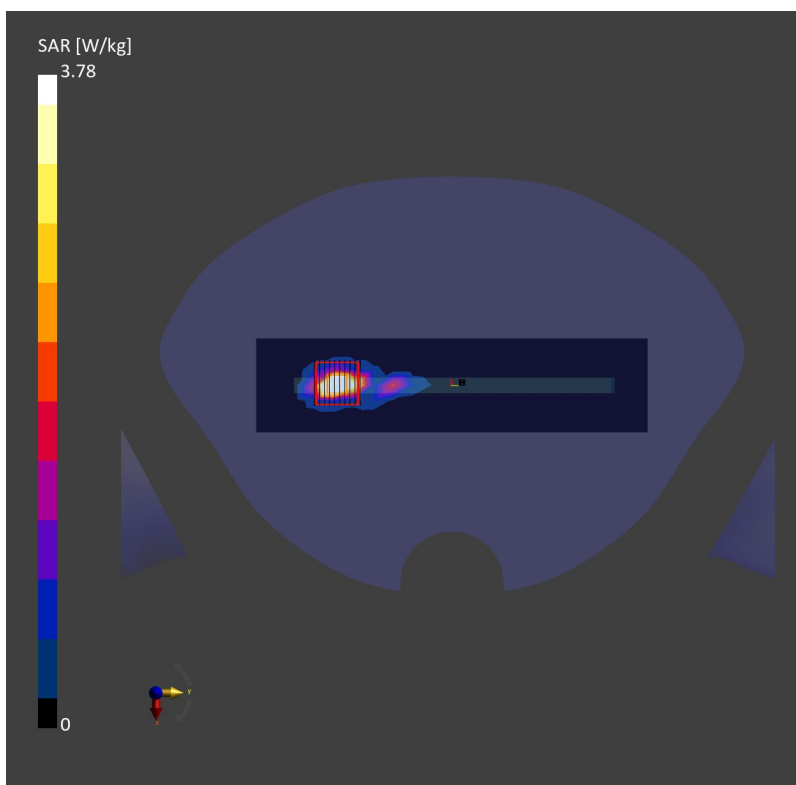
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 2.6 mm x 2.6 mm x 1.2 mm

Power Drift = -0.09 dB

SAR (1g) = 3.78 W/kg; SAR (10g) = 0.893 W/kg

Smallest distance from peaks to all points 3 dB below = 3.7 mm

Ratio of SAR at M2 to SAR at M1 = 63.8 %



Date: 2025/10/26

110_WLAN6GHz_802.11ax-HE160 MCS0_Front_0mm_Ch111

Communication System: IEEE 802.11ax (160MHz, MCS0); Frequency: 6505.000

MHz; Duty Cycle: 1:1.002

Medium: Head Simulating Liquid Medium parameters used: $f = 6505.000$ MHz; $\sigma = 5.98$ S/m; $\epsilon_r = 33.5$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.4°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.68, 5.58, 5.6); Calibrated: 2025/6/26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1696; Calibrated: 2025/9/10
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2033; Section: Flat
- Measurement Software: 16.2.2.1588
- UID: WLAN, 10755-AAC

Area Scan (119.0 mm x 204.0 mm): Measurement Grid: 8.5 mm x 8.5 mm

SAR (1g) = 0.211 W/kg; SAR (10g) = 0.049 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm

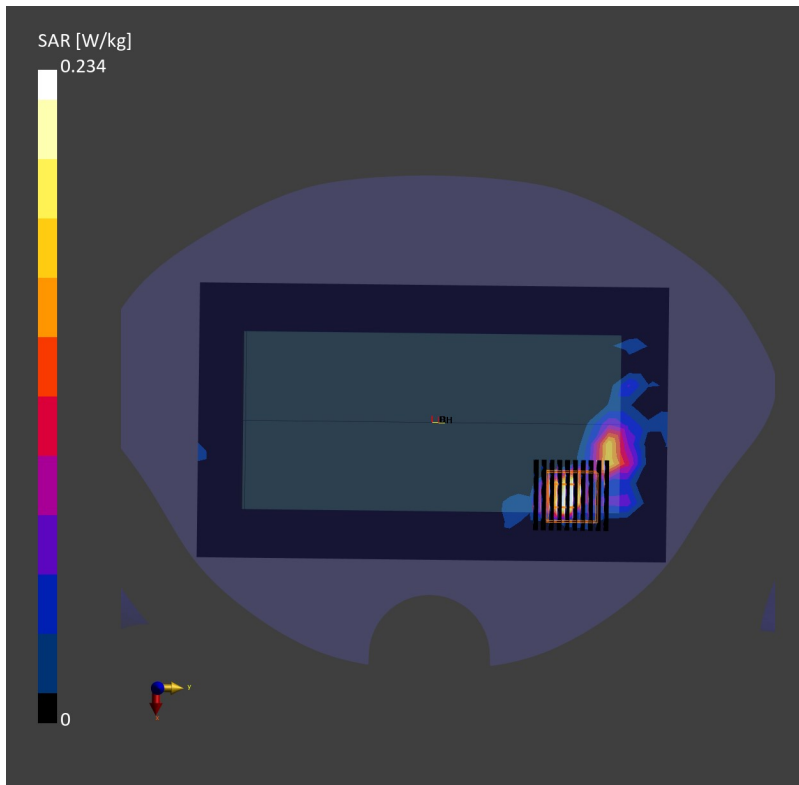
Power Drift = 0.10 dB

SAR (1g) = 0.234 W/kg; SAR (10g) = 0.055 W/kg

Smallest distance from peaks to all points 3 dB below = 3.7 mm

Ratio of SAR at M2 to SAR at M1 = 40.1 %

psAPD (4.0cm², sq) = 1.30 [W/m²]



For PD

01_WLAN6GHz_802.11ax-HE160 MCS0_Front_2mm_Ch143

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	163.0 x 77.0 x 8.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV4 - SN9432_F1-55GHz, 2025-01-08	DAE4 Sn1664, 2025-07-30

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2025-10-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.24
psPDtot+ [W/m ²]	1.46
psPDmod+ [W/m ²]	2.32
E _{max} [V/m]	53.1
Power Drift [dB]	-0.14

