

# **Appendix B**

## **Detailed Test Results**

1. WIFI
WIFI 2.4G
WIFI 5G
Hyper WIFI
WIFI 6E
2. BT
BT
3. NFC
NFC

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Test Laboratory: SGS-SAR Lab

## TF41A WIFI2.4G 802.11g 6CH Top side 0mm

**DUT: TF41A; Type: Wireless Data Terminal; Serial: LE03E51J00051**

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz; Duty Cycle: 1:1.104

Medium: HSL2450; Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.87$  S/m;  $\epsilon_r = 38.375$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.98, 7.98, 7.98); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1239
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (9x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.878 W/kg

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

Reference Value = 6.295 V/m; Power Drift = 0.09 dB

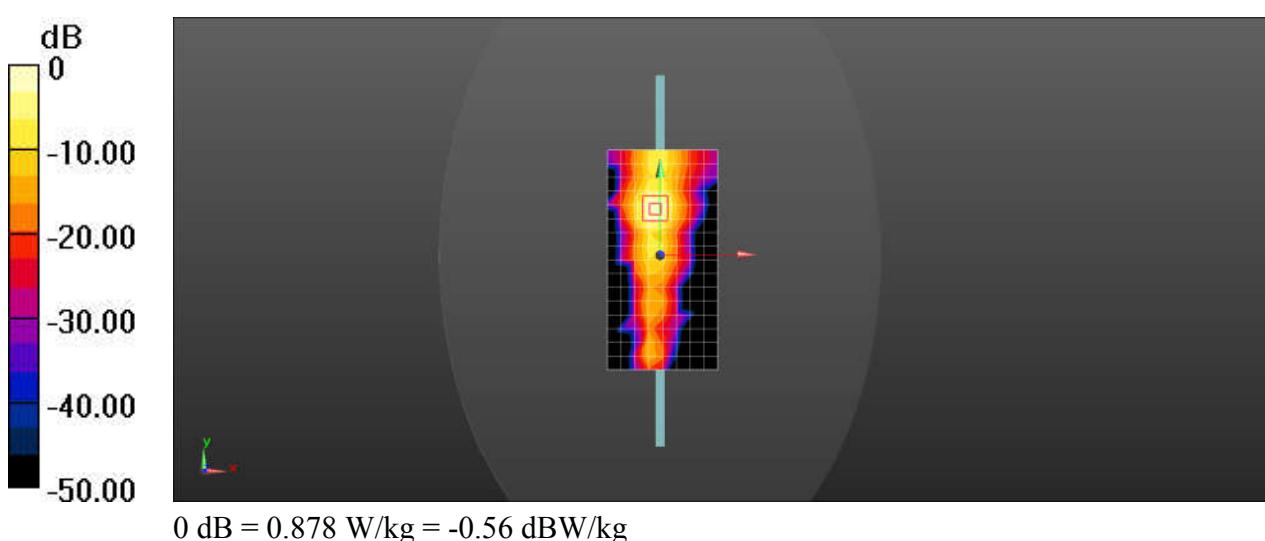
Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.306 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 41.4%

Maximum value of SAR (measured) = 1.65 W/kg



Test Laboratory: SGS-SAR Lab

## TF41A WIFI5G 802.11a 64CH Top side 0mm

**DUT: TF41A; Type: Wireless Data Terminal; Serial: LE03E51J00051**

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5320 MHz; Duty Cycle: 1:1.053

Medium: HSL5G; Medium parameters used:  $f = 5320$  MHz;  $\sigma = 4.724$  S/m;  $\epsilon_r = 35.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.6, 5.6, 5.6); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1239
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (11x21x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 1.30 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.3280 V/m; Power Drift = 0.06 dB

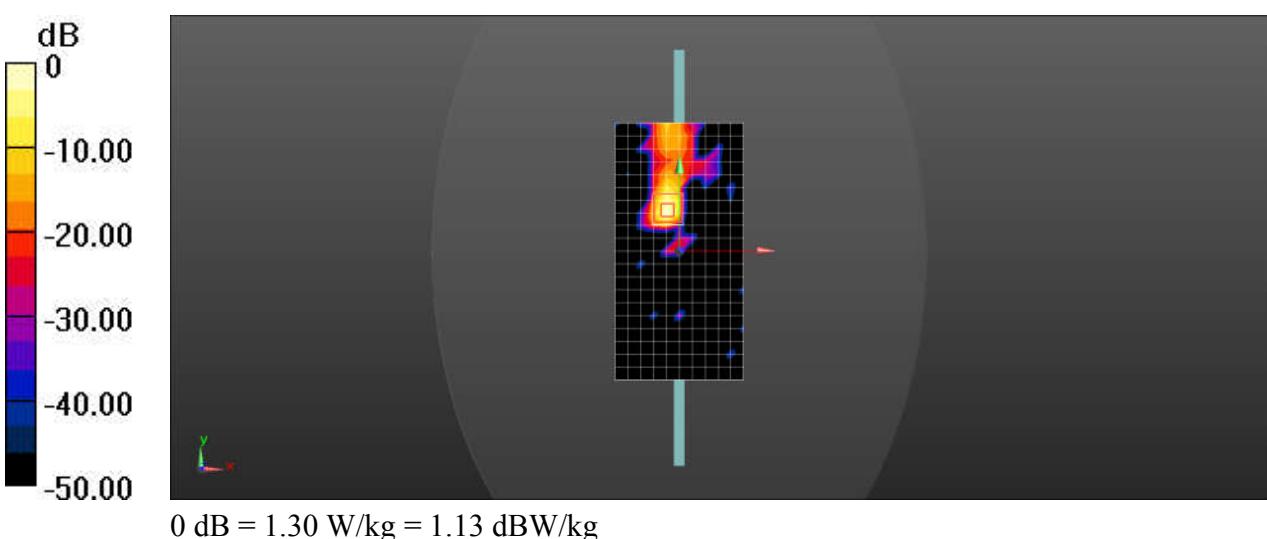
Peak SAR (extrapolated) = 2.50 W/kg

**SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.105 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 1.43 W/kg



Test Laboratory: SGS-SAR Lab

## TF41A WIFI5G 802.11n-HT40 110CH Top side 0mm

**DUT: TF41A; Type: Wireless Data Terminal; Serial: LE03E51J00051**

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5550 MHz; Duty Cycle: 1:1.117

Medium: HSL5G; Medium parameters used:  $f = 5550$  MHz;  $\sigma = 4.969$  S/m;  $\epsilon_r = 34.765$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5, 5, 5); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1239
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (11x21x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 0.739 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

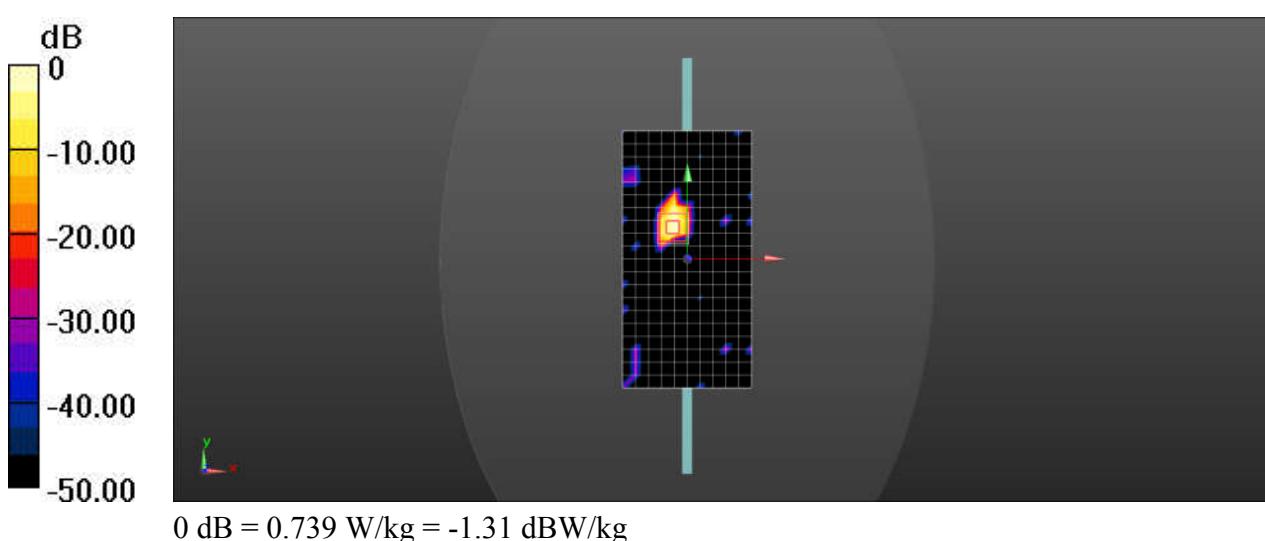
Peak SAR (extrapolated) = 1.97 W/kg

**SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.072 W/kg**

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

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

Maximum value of SAR (measured) = 1.17 W/kg



Test Laboratory: SGS-SAR Lab

## TF41A WIFI5G 802.11n-HT40 151CH Back side 0mm

**DUT: TF41A; Type: Wireless Data Terminal; Serial: LE03E51J00051**

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5755 MHz; Duty Cycle: 1:1.117

Medium: HSL5G; Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.214$  S/m;  $\epsilon_r = 34.234$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.06, 5.06, 5.06); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1239
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (9x21x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 1.48 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

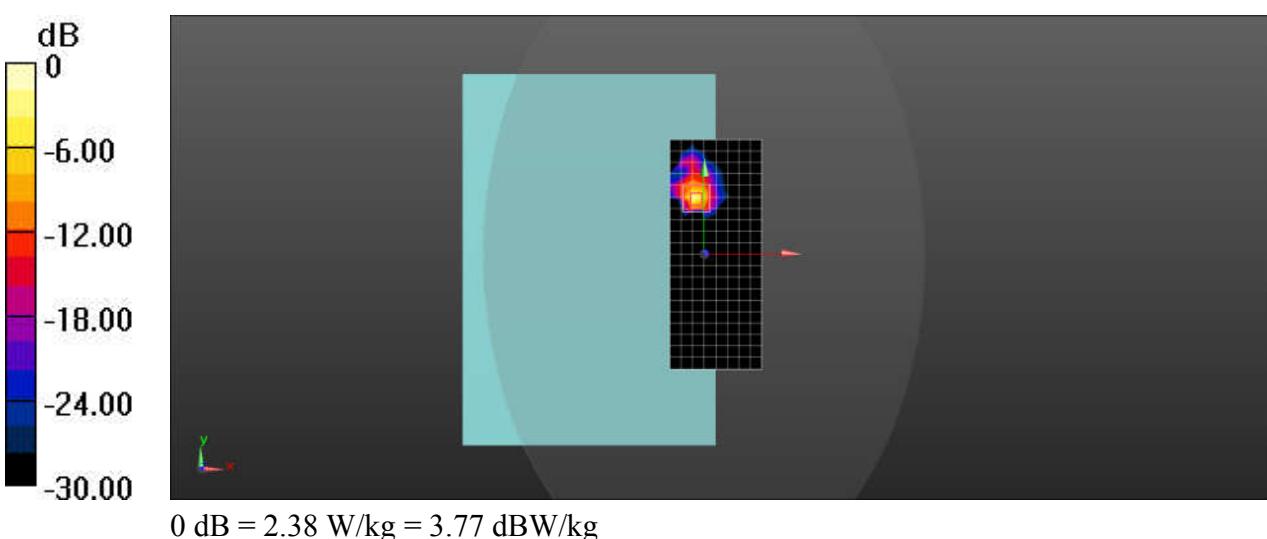
Peak SAR (extrapolated) = 4.57 W/kg

**SAR(1 g) = 0.737 W/kg; SAR(10 g) = 0.141 W/kg**

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 2.38 W/kg



Test Laboratory: SGS-SAR Lab

## TF41A Hyper WIFI 802.11ah-1M 5CH Back side 0mm

**DUT: TF41A; Type: Wireless Data Terminal; Serial: LE03E51J00051**

Communication System: UID 0, Hyper WIFI (0); Frequency: 926.5 MHz; Duty Cycle: 1:1.087

Medium: HSL835; Medium parameters used:  $f = 926.5$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 41.761$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.19, 10.19, 10.19); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1239
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.22 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.457 V/m; Power Drift = 0.06 dB

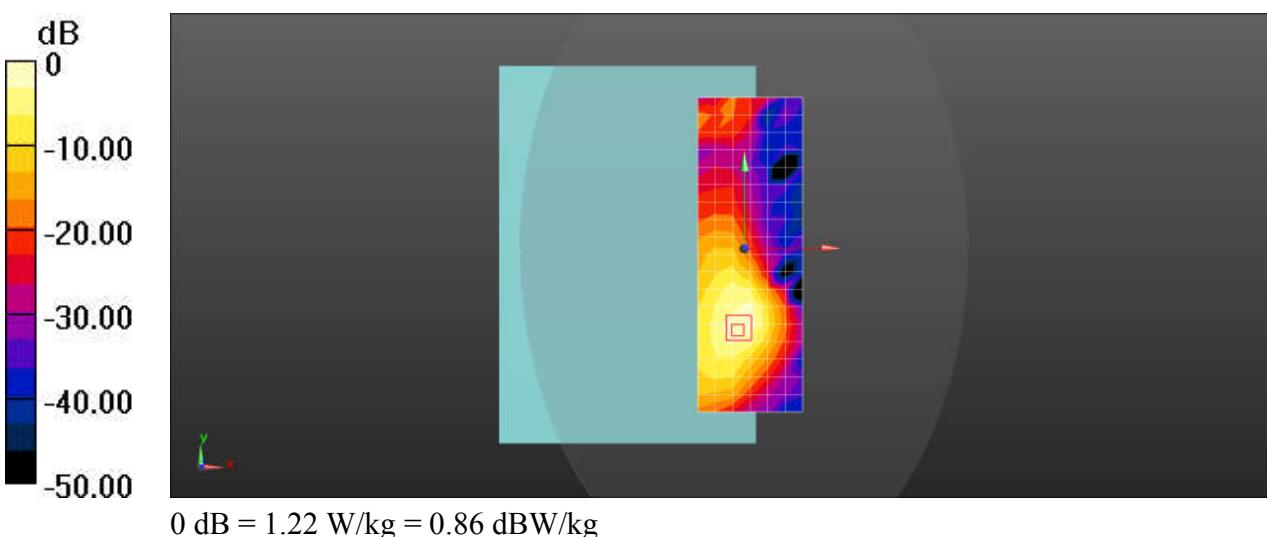
Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.368 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 38.2%

Maximum value of SAR (measured) = 1.49 W/kg



**WIFI6G 802.11ax 80M 215CH Top side 0mm**

Communication System: U-NII-6; Frequency: 7025.000

Medium: Head Simulating Liquid. Medium parameters used:  $f = 7025.000$  MHz;  $\sigma = 6.66$  S/m;  $\epsilon_r = 32.8$ 

DASY8 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(5.4, 5.62, 5.52); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1826; Calibrated: 2025-02-17
- Phantom: ELI V8.0 (20deg probe tilt); Serial: 2217
- Measurement Software: cDASY8 V16.4.0.5005

**Area Scan (102.0 mm x 170.0 mm):** Measurement Grid: 8.5 mm x 8.5 mm  
SAR (1g) = 0.226 W/kg; SAR (8g) = 0.051 W/kg; SAR (10g) = 0.043 W/kg;**Zoom Scan (23.4 mm x 23.4 mm x 25.0 mm):** Measurement Grid: 2.6 mm x 2.6 mm x 1.2 mm

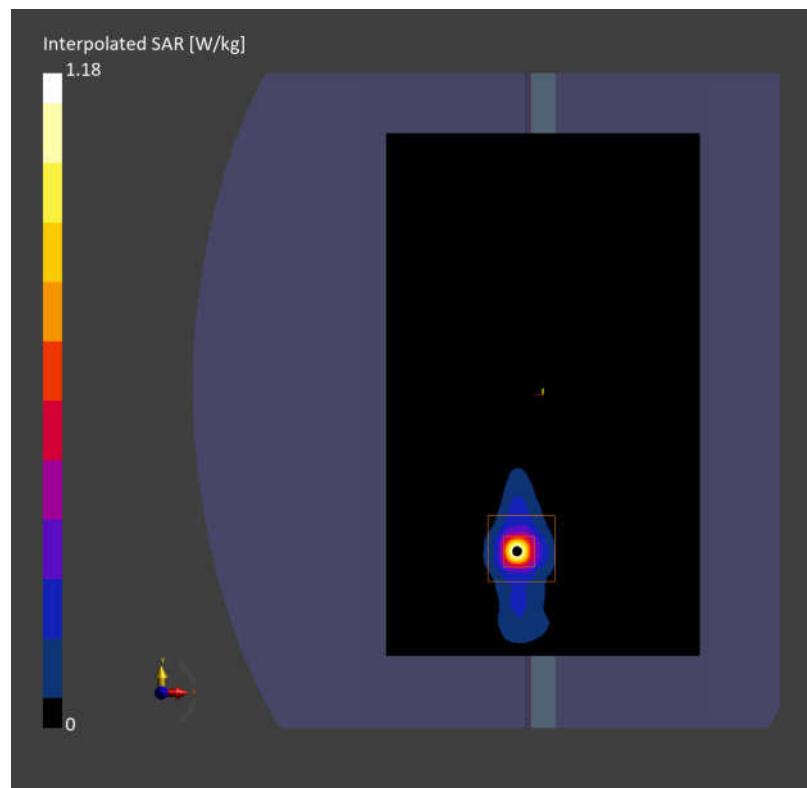
Power Drift = -0.02 dB

SAR (1g) = 0.247 W/kg; SAR (8g) = 0.068 W/kg; SAR (10g) = 0.057 W/kg;

psAPD (4.0cm<sup>2</sup>, sq) [W/m<sup>2</sup>] 1.24

M2/M1 [%] 58.8

Dist 3dB Peak [mm] 3.5



Test Laboratory: SGS-SAR Lab

## TF41A Bluetooth DH5 39CH Top side 0mm

**DUT: TF41A; Type: Wireless Data Terminal; Serial: LE03E51J00051**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium: HSL2450; Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.848$  S/m;  $\epsilon_r = 38.291$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.98, 7.98, 7.98); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1239
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (9x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 1.06 W/kg

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

Reference Value = 4.907 V/m; Power Drift = 0.03 dB

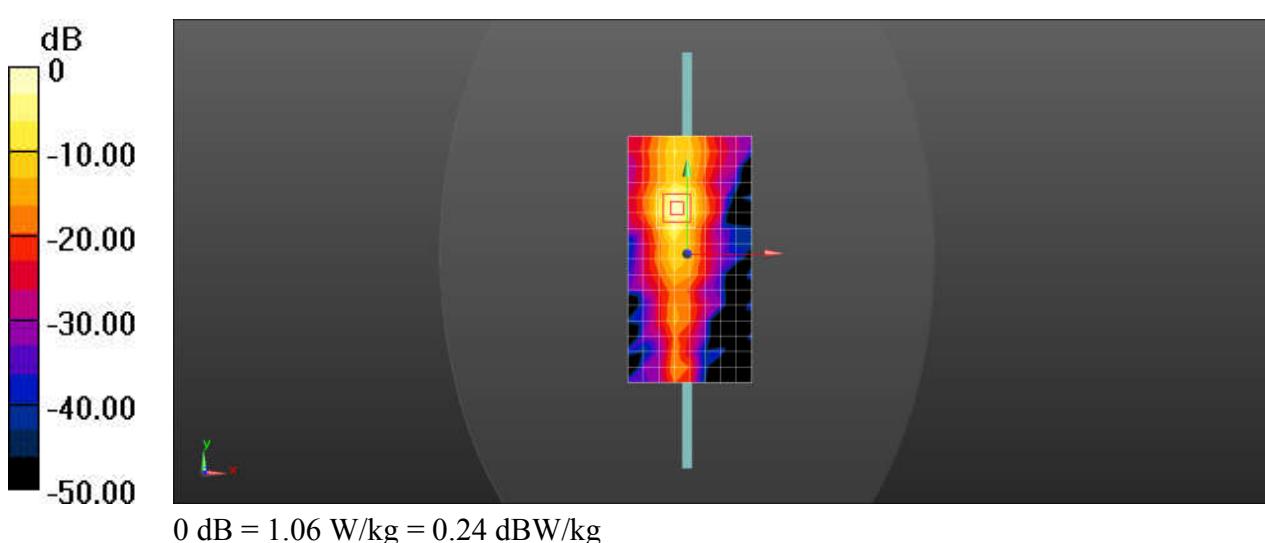
Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.092 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 42.5%

Maximum value of SAR (measured) = 1.21 W/kg



**Sunmi NFC 13.56MHz Back side 0mm**

Communication System: Custom Band; Frequency: 13.600

Medium: HSL. Medium parameters used:  $f = 13.600$  MHz;  $\sigma = 0.743$  S/m;  $\epsilon_r = 53.6$ 

DASY8 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(13.68, 13.51, 13.73); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1826; Calibrated: 2025-02-17
- Phantom: ELI V8.0 (20deg probe tilt); Serial: 2217
- Measurement Software: cDASY8 V16.4.0.5005

**Area Scan (180.0 mm x 270.0 mm):** Measurement Grid: 15.0 mm x 15.0 mm

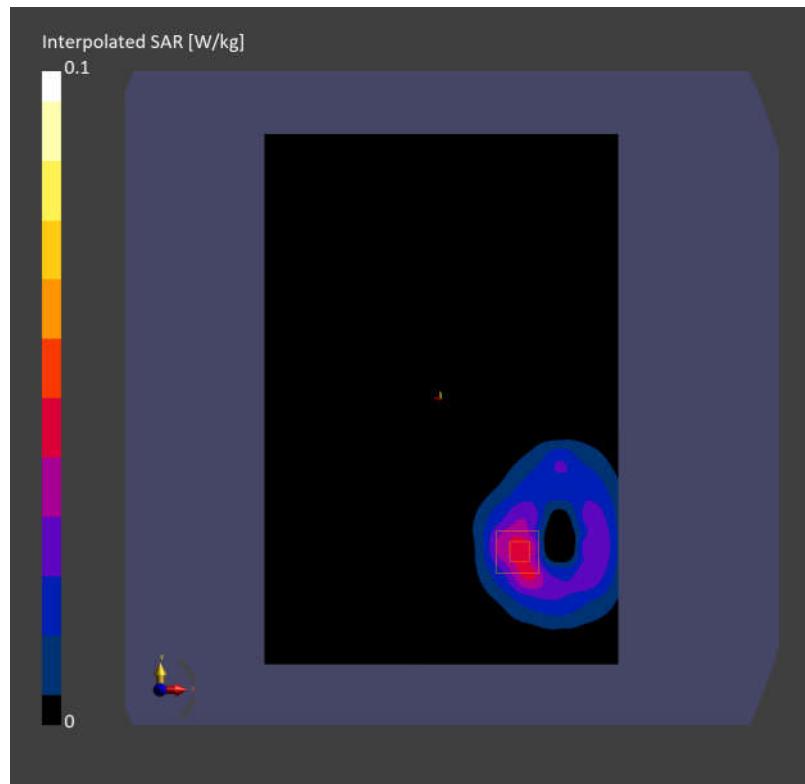
SAR (1g) = 0.033 W/kg; SAR (10g) = 0.018 W/kg;

**Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm):** Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = 0.12 dB

**SAR (1g) = 0.035 W/kg; SAR (10g) = 0.019 W/kg;**

M2/M1 [%]	66.4
Dist 3dB Peak [mm]	9.7





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Page: 10 of 10

- End of the Appendix -