
Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2023/10/24

28_WLAN2.4GHz_802.11b-1M_CH6_Left-side(PAD)_0mm_ANT Aux**DUT: Notebook Computer; Type: N24H3**

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.76$ S/m; $\epsilon_r = 40.53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.85, 8.9, 7.36) @ 2437 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.24 W/kg

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

Reference Value = 4.773 V/m; Power Drift = 0.09 dB

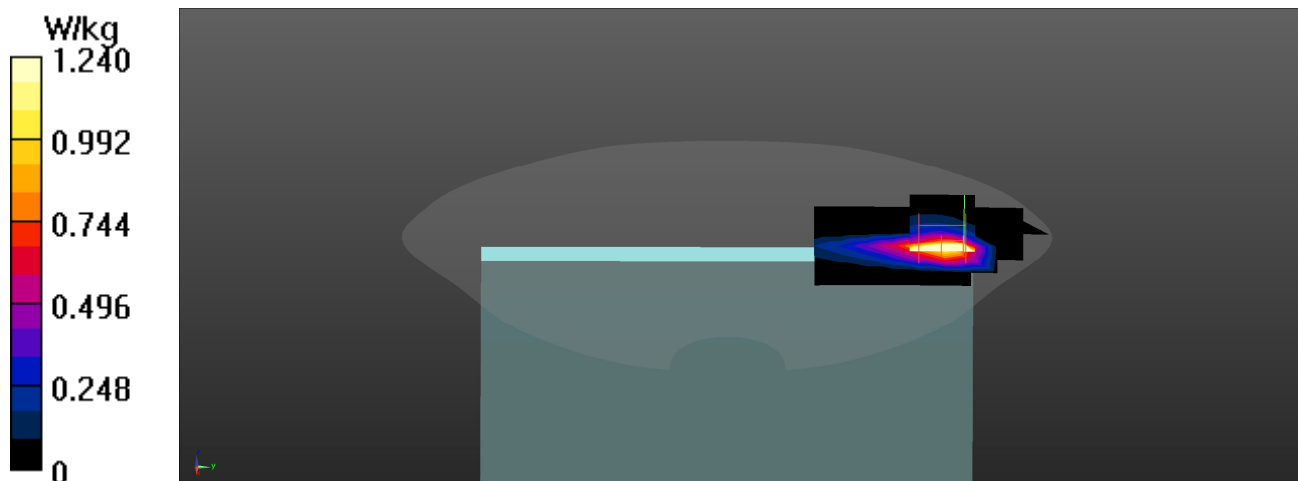
Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.412 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 45.9%

Maximum value of SAR (measured) = 2.37 W/kg



Test Laboratory: DEKRA

Date: 2023/10/24

34_Bluetooth_BT-1M_CH39_Left-side(PAD)_0mm_ANT Aux**DUT: Notebook Computer; Type: N24H3**

Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2441 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.76$ S/m; $\epsilon_r = 40.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.85, 8.9, 7.36) @ 2441 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0979 W/kg

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

Reference Value = 0.9120 V/m; Power Drift = 0.15 dB

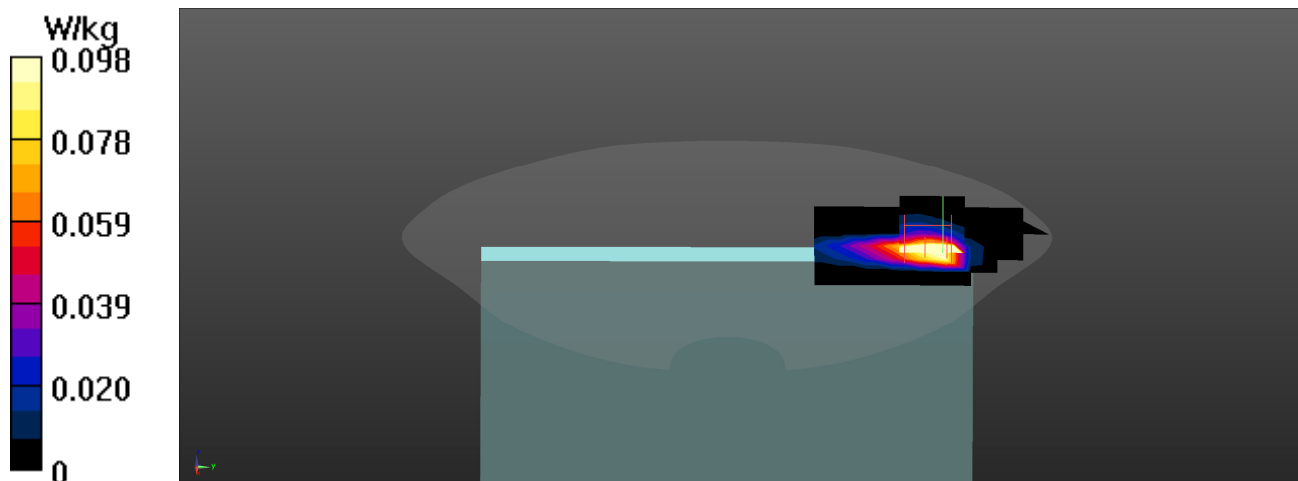
Peak SAR (extrapolated) = 0.360 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.039 W/kg

Smallest distance from peaks to all points 3 dB below = 5.3 mm

Ratio of SAR at M2 to SAR at M1 = 41.3%

Maximum value of SAR (measured) = 0.220 W/kg



Test Laboratory: DEKRA

Date: 2023/10/25

11_WLAN5GHz_802.11ac80-VHT0_CH58_Left-side(PAD)_0mm_ANT Aux**DUT: Notebook Computer; Type: N24H3**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.79$ S/m; $\epsilon_r = 36.38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.67, 6.32, 5.35) @ 5290 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.22 W/kg

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

Reference Value = 24.36 V/m; Power Drift = 0.12 dB

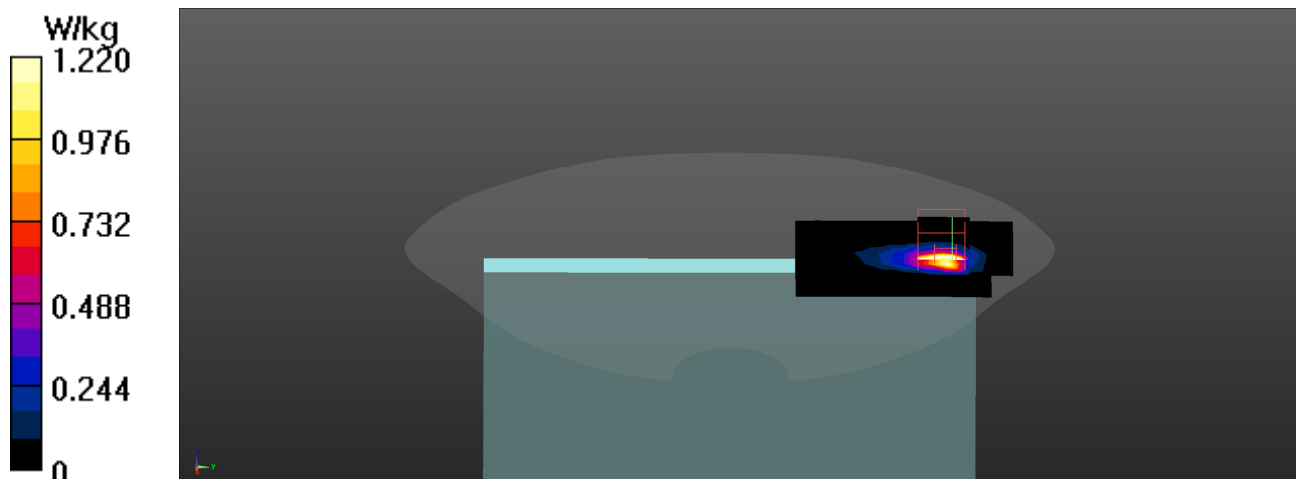
Peak SAR (extrapolated) = 5.33 W/kg

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.206 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 2.62 W/kg



Test Laboratory: DEKRA

Date: 2023/10/25

9_WLAN5GHz_802.11ac80-VHT0_CH106_Right-side(PAD)_0mm_ANT Main**DUT: Notebook Computer; Type: N24H3**

Communication System: UID 0, WLAN 5G; Frequency: 5530 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.11$ S/m; $\epsilon_r = 35.71$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(4.85, 5.34, 4.58) @ 5530 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.75 W/kg

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

Reference Value = 22.73 V/m; Power Drift = -0.19 dB

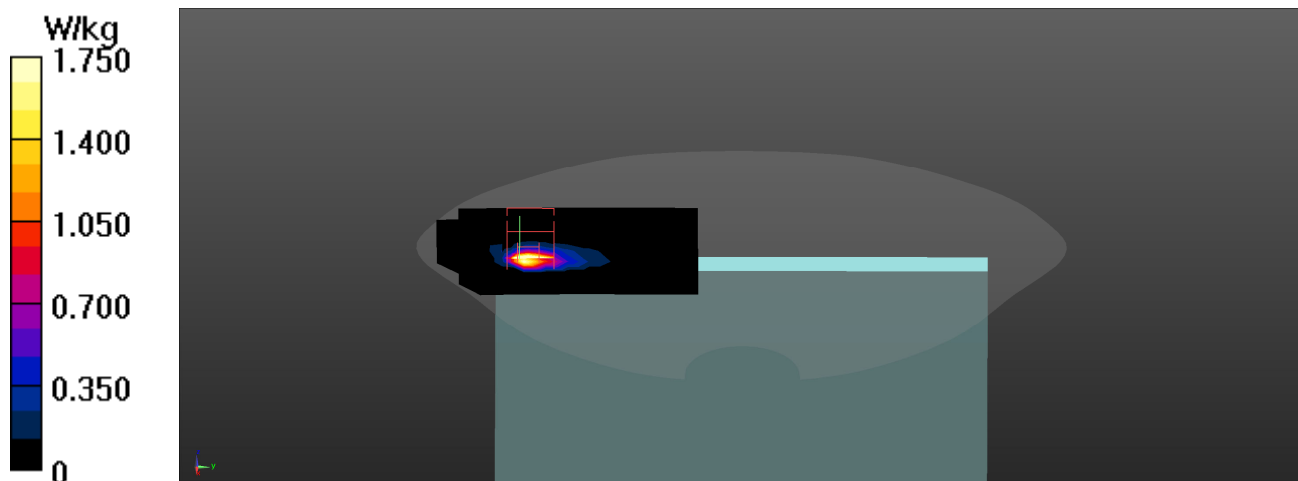
Peak SAR (extrapolated) = 6.81 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.221 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 2.96 W/kg



Test Laboratory: DEKRA

Date: 2023/10/25

13_WLAN5GHz_802.11ac80-VHT0_CH155_Left-side(PAD)_0mm_ANT Aux**DUT: Notebook Computer; Type: N24H3**

Communication System: UID 0, WLAN 5G; Frequency: 5775 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.43$ S/m; $\epsilon_r = 35.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(4.84, 5.4, 4.63) @ 5775 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.82 W/kg

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

Reference Value = 23.27 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 7.11 W/kg

SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.211 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 3.17 W/kg



Test Laboratory: DEKRA

Date: 2023-10-26

14_WLAN6GHz_802.11ax160-HE0_CH15_Right-side(PAD)_0mm_ANT Main

Communication System: UID 10755-AAC, WLAN; Frequency: 6025.000 MHz

Medium parameters used: $f = 6025.000$ MHz; Conductivity = 5.62 S/m; Permittivity = 35.30

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.18, 5.95, 5.0); Calibrated: 2023-02-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2023-02-22
- Phantom: Twin-SAM V8.0 (30deg probe tilt)
- Measurement SW: V16.2.4.2524

Area Scan (68.0 mm x 85.0 mm): Measurement grid: 8.5 mm x 8.5 mm

SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.217 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

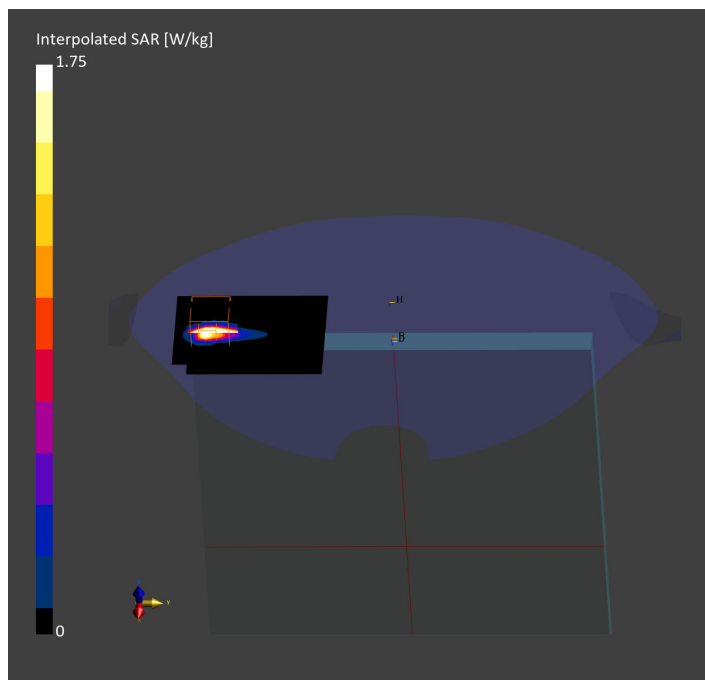
Power Drift = -0.04 dB

SAR(1 g) = 0.968 W/kg; SAR(10 g) = 0.216 W/kg

psAPD (4.0cm², sq) = 5.14 W/m²

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

Ratio of SAR at M2 to SAR at M1 = 54.8



1_WLAN6GHz_802.11ax160-HE0_CH15_Right-side(PAD)_0mm_ANT Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
N24H3	319.0 x 226.0 x 13.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	EDGE, 2.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	1.0

Hardware Setup

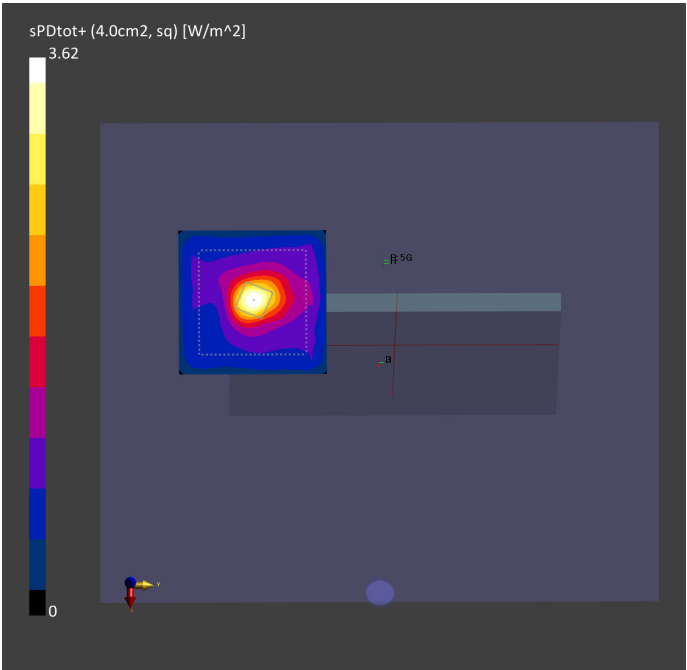
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1068	Air---	EUmmWV4 - SN9546_F1-55GHz, 2023-04-18	DAE4 Sn1651, 2023-02-22

Scan Setup

	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2023-10-30
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	3.23
psPDtot+ [W/m²]	3.62
psPDmod+ [W/m²]	3.94
E _{max} [V/m]	54.4
Power Drift [dB]	0.13



SAR measurement variability

Test Laboratory: DEKRA

Date: 2023/10/24

33_WLAN2.4GHz_802.11b-1M_CH6_Left-side(PAD)_0mm_ANT Aux_verify

DUT: Notebook Computer; Type: N24H3

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.76$ S/m; $\epsilon_r = 40.53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.85, 8.9, 7.36) @ 2437 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.992 W/kg

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

Reference Value = 6.012 V/m; Power Drift = 0.19 dB

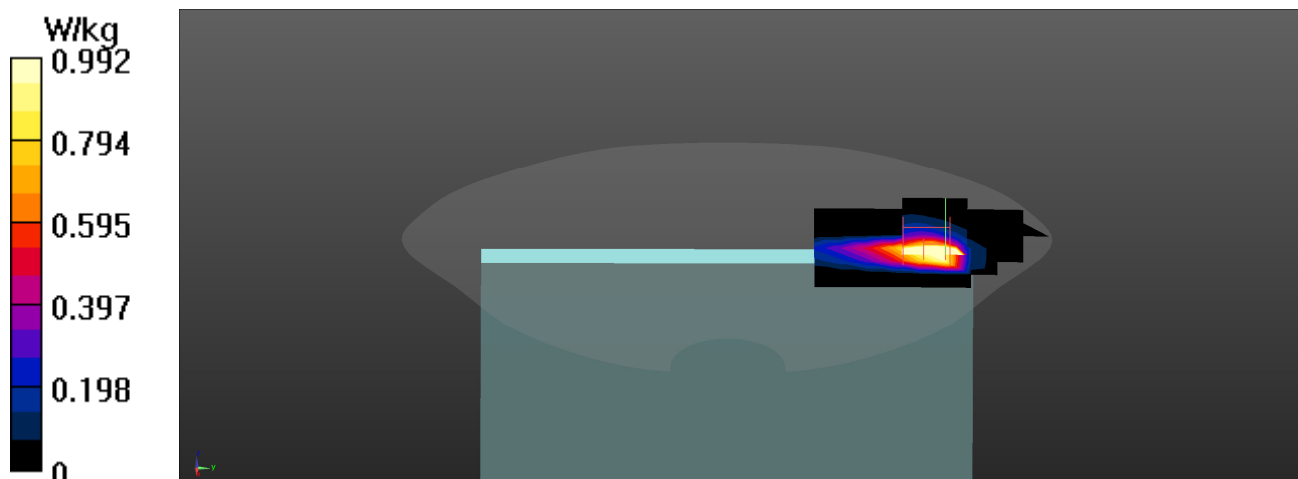
Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.405 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 40.8%

Maximum value of SAR (measured) = 2.21 W/kg



Test Laboratory: DEKRA

Date: 2023/10/25

47_WLAN5GHz_802.11ac80-VHT0_CH106_Right-side(PAD)_0mm_ANT Main_verify**DUT: Notebook Computer; Type: N24H3**

Communication System: UID 0, WLAN 5G; Frequency: 5530 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.11$ S/m; $\epsilon_r = 35.71$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(4.85, 5.34, 4.58) @ 5530 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.92 W/kg

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

Reference Value = 25.89 V/m; Power Drift = -0.06 dB

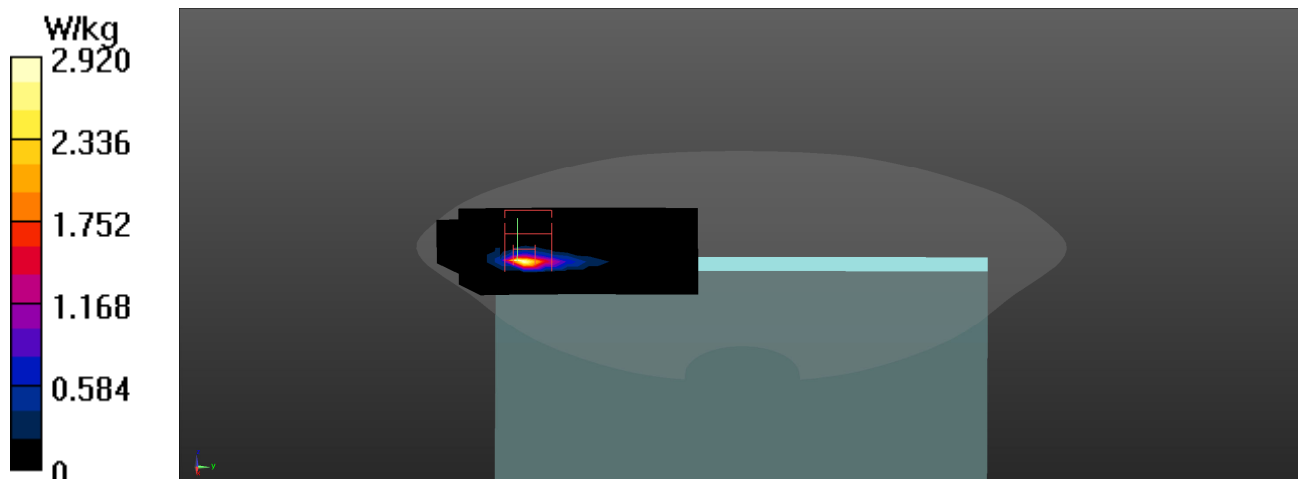
Peak SAR (extrapolated) = 6.18 W/kg

SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.225 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 3.23 W/kg



Test Laboratory: DEKRA

Date: 2023-10-26

74_WLAN6GHz_802.11ax160-HE0_CH15_Right-side(PAD)_0mm_ANT Main_verify

Communication System: UID 10755-AAC, WLAN; Frequency: 6025.000 MHz

Medium parameters used: $f = 6025.000$ MHz; Conductivity = 5.62 S/m; Permittivity = 35.30

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.18, 5.95, 5.0); Calibrated: 2023-02-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2023-02-22
- Phantom: Twin-SAM V8.0 (30deg probe tilt)
- Measurement SW: V16.2.4.2524

Area Scan (68.0 mm x 85.0 mm): Measurement grid: 8.5 mm x 8.5 mm

SAR (1 g) = 0.910 W/kg; SAR (10 g) = 0.215 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 = -0.03 dB

SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.214 W/kg

psAPD (4.0cm², sq) = 5.08 W/m²

Smallest distance from peaks to all points 3 dB below = 3.8

Ratio of SAR at M2 to SAR at M1 = 54.5

