

Appendix C - Highest Measurement Plots

Date: 2023/6/8

02_WLAN 2.4 GHz_802.11b_CH6_Bottom of laptop_0mm_ANT Main

DUT: UM3504D

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.006
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 40.171$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(7.53, 7.04, 7.55) @ 2437 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 1.06 W/kg

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

Reference Value = 24.08 V/m; Power Drift = -0.17 dB

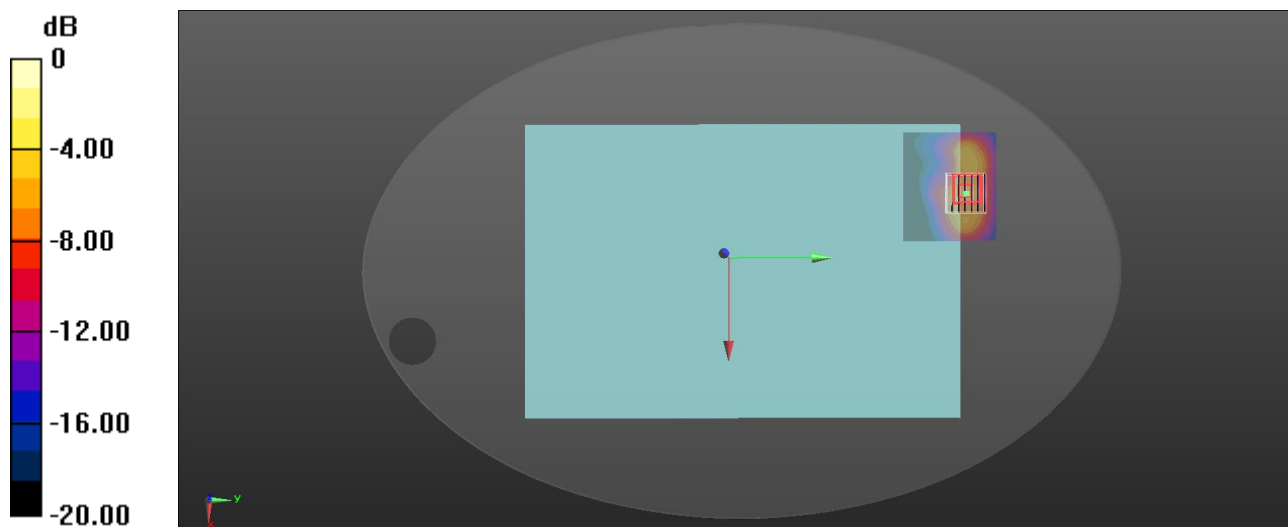
Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.240 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 33.8%

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



0 dB = 1.21 W/kg = 0.83 dBW/kg

Date: 2023/6/8

10_WLAN 2.4 GHz_802.11b_CH11_Bottom of laptop_0mm_ANT Aux

DUT: UM3504D

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1.006

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.792$ S/m; $\epsilon_r = 40.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(7.53, 7.04, 7.55) @ 2462 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.51 W/kg

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

Reference Value = 20.87 V/m; Power Drift = -0.13 dB

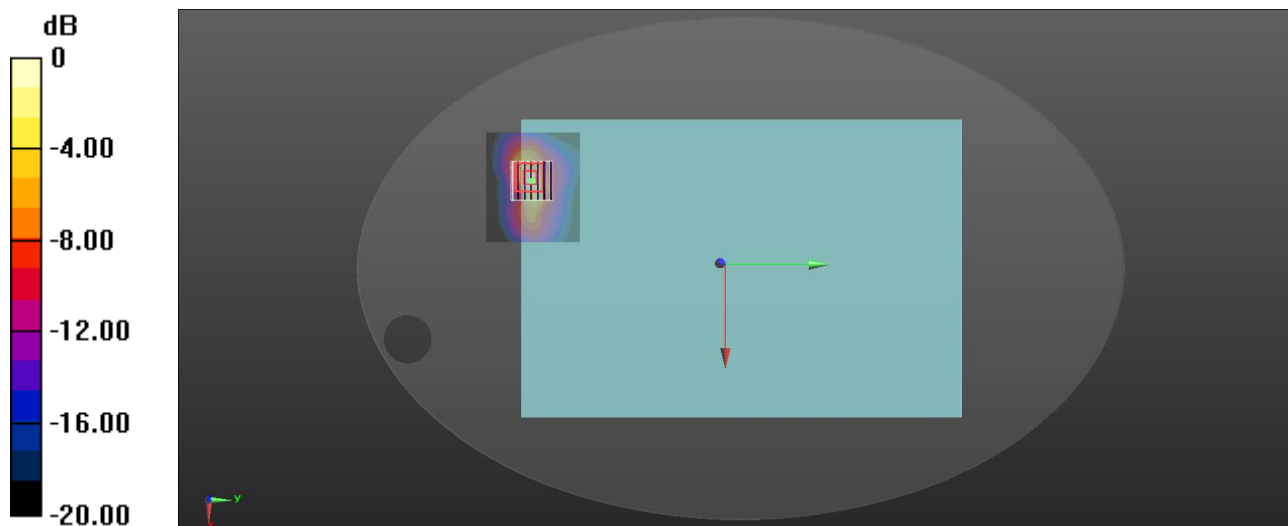
Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.258 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 37.3%

Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

Date: 2023/6/8

17_Bluetooth_GFSK_CH78_Bottom of laptop_0mm_ANT Aux

DUT: UM3504D

Communication System: UID 0, Bluetooth 3.0 (0); Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.812 \text{ S/m}$; $\epsilon_r = 40.028$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(7.53, 7.04, 7.55) @ 2480 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x61x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.184 W/kg

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

Reference Value = 9.198 V/m; Power Drift = -0.12 dB

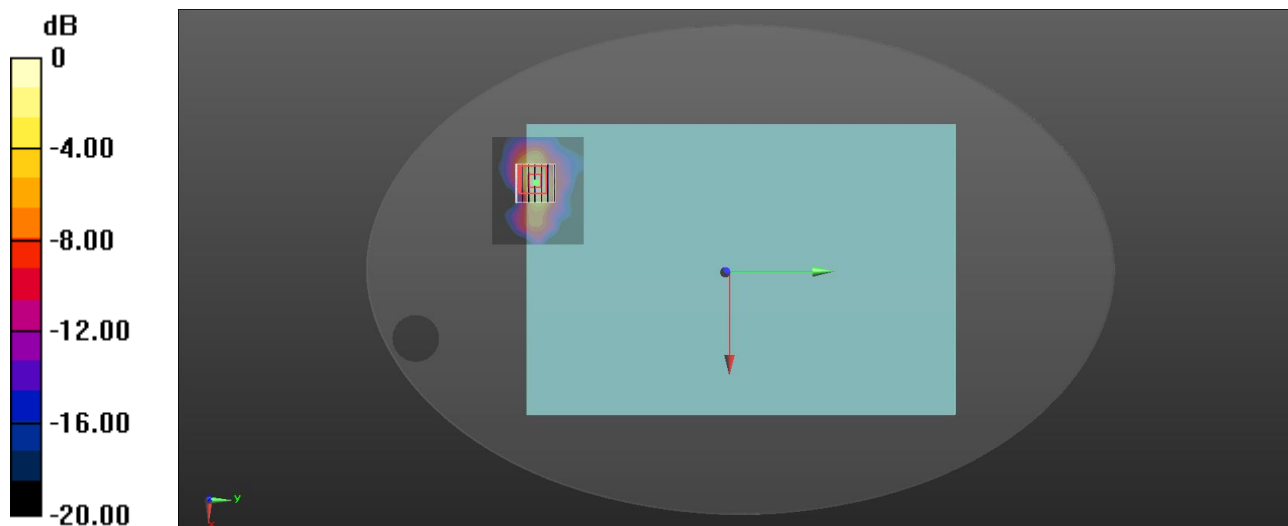
Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.028 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 39.5%

Maximum value of SAR (measured) = 0.162 W/kg



0 dB = 0.162 W/kg = -7.90 dBW/kg

Date: 2023/6/9

21_WLAN 5 GHz_802.11n HT40_CH54_Bottom of laptop_0mm_ANT Main

DUT: UM3504D

Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5270 MHz;Duty Cycle: 1:1.045

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.669$ S/m; $\epsilon_r = 35.895$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.42, 5.19, 5.57) @ 5270 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.95 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 16.39 V/m; Power Drift = -0.12 dB

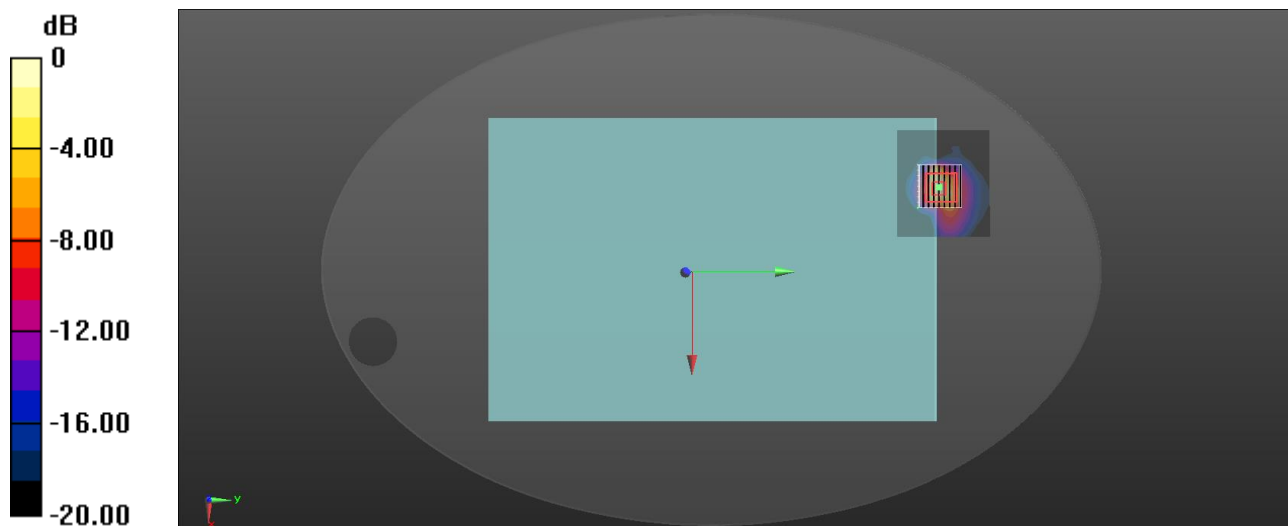
Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.213 W/kg

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

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

Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 1.94 W/kg = 2.88 dBW/kg

Date: 2023/6/9

26_WLAN 5 GHz_802.11n HT40_CH62_Bottom of laptop_0mm_ANT Aux

DUT: UM3504D

Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5310 MHz;Duty Cycle: 1:1.045

Medium parameters used: $f = 5310$ MHz; $\sigma = 4.737$ S/m; $\epsilon_r = 35.914$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.42, 5.19, 5.57) @ 5310 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

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

Reference Value = 16.46 V/m; Power Drift = -0.09 dB

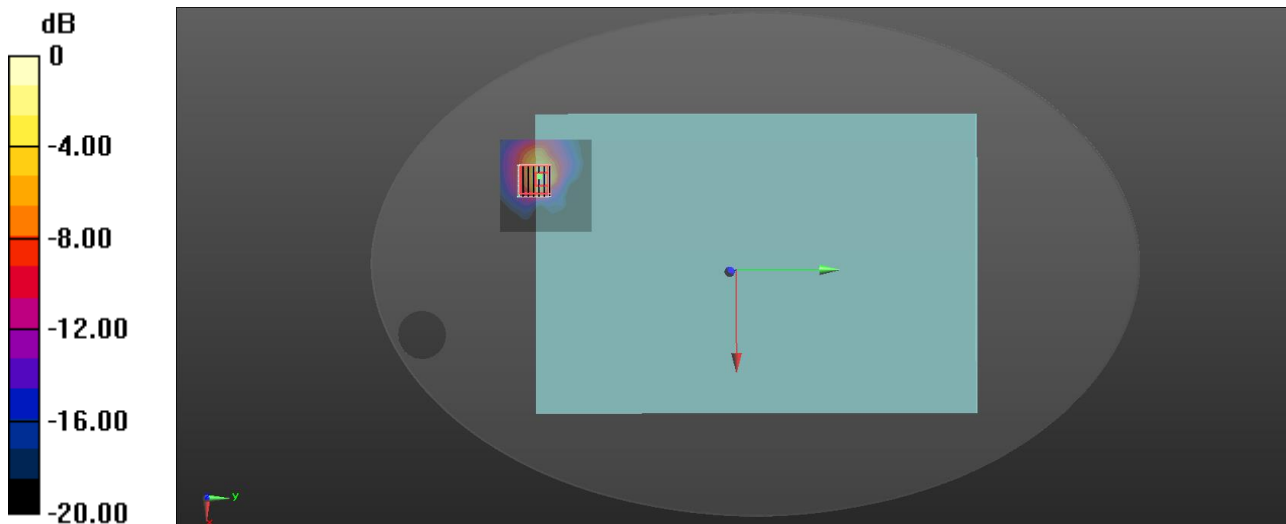
Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.224 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 2.10 W/kg



0 dB = 2.10 W/kg = 3.22 dBW/kg

Date: 2023/6/9

29_WLAN 5 GHz_802.11ac_VHT80_CH106_Bottom of laptop_0mm_ANT Main

DUT: UM3504D

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5530 MHz;Duty Cycle: 1:1.086

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.606$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(4.8, 4.44, 4.77) @ 5530 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.71 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 16.77 V/m; Power Drift = -0.16 dB

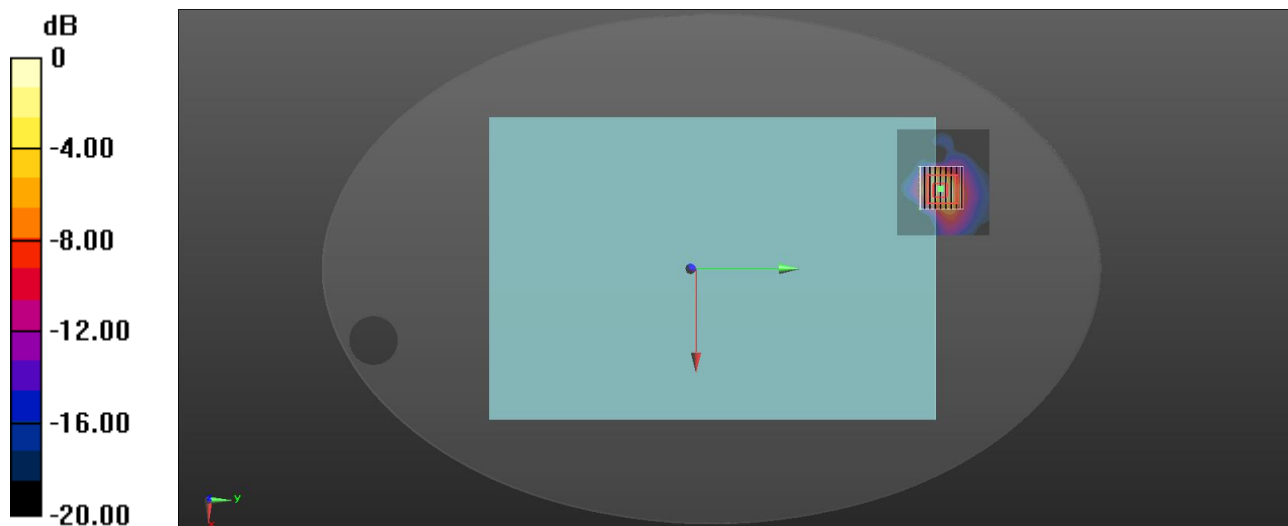
Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.195 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 1.72 W/kg



0 dB = 1.72 W/kg = 2.36 dBW/kg

Date: 2023/6/9

34_WLAN 5 GHz_802.11ac_VHT80_CH106_Bottom of laptop_0mm_ANT Aux

DUT: UM3504D

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5530 MHz;Duty Cycle: 1:1.086

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.606$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(4.8, 4.44, 4.77) @ 5530 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.72 W/kg

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

Reference Value = 19.61 V/m; Power Drift = -0.07 dB

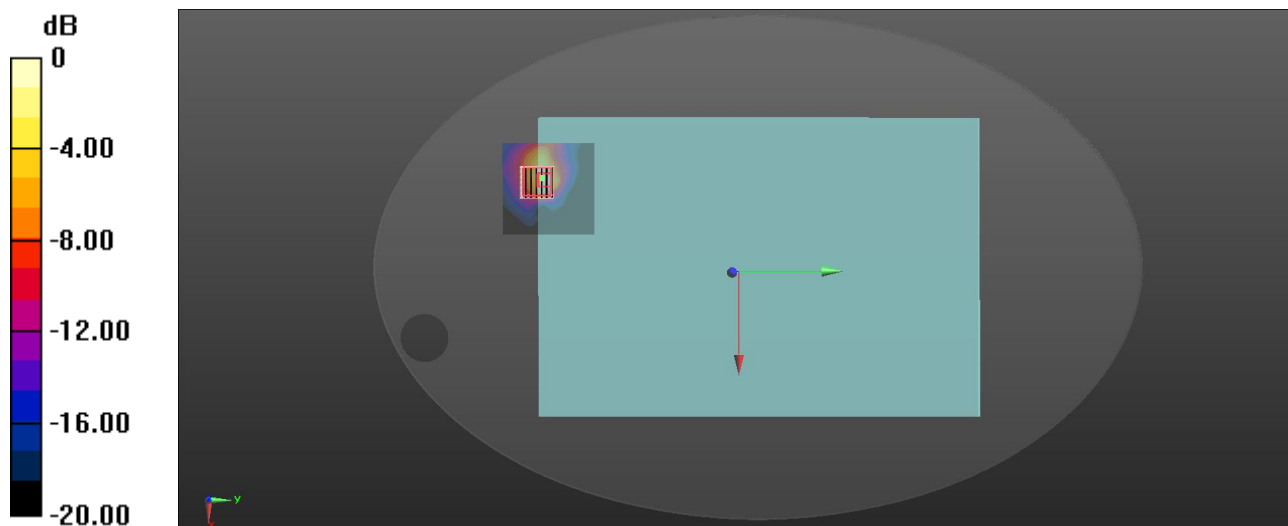
Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.235 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

Date: 2023/6/9

40_WLAN 5 GHz_802.11ac VHT80_CH171_Bottom of laptop_0mm_ANT Main

DUT: UM3504D

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5855 MHz;Duty Cycle: 1:1.086

Medium parameters used: $f = 5855$ MHz; $\sigma = 5.184$ S/m; $\epsilon_r = 34.81$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.02, 4.74, 5.01) @ 5855 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.18 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 17.44 V/m; Power Drift = -0.17 dB

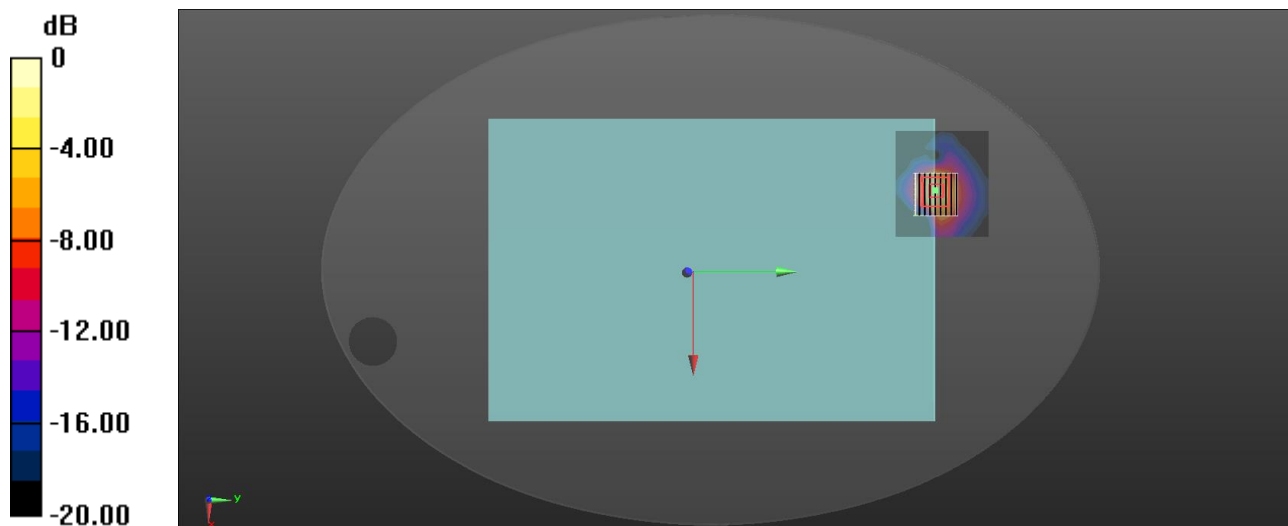
Peak SAR (extrapolated) = 4.90 W/kg

SAR(1 g) = 0.945 W/kg; SAR(10 g) = 0.279 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

Date: 2023/6/9

45_WLAN 5 GHz_802.11ac_VHT80_CH171_Bottom of laptop_0mm_ANT Aux

DUT: UM3504D

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5855 MHz;Duty Cycle: 1:1.086
Medium parameters used: $f = 5855$ MHz; $\sigma = 5.184$ S/m; $\epsilon_r = 34.81$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.02, 4.74, 5.01) @ 5855 MHz; Calibrated: 2023/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2022/7/19
- Phantom: ELI; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.59 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 16.59 V/m; Power Drift = -0.01 dB

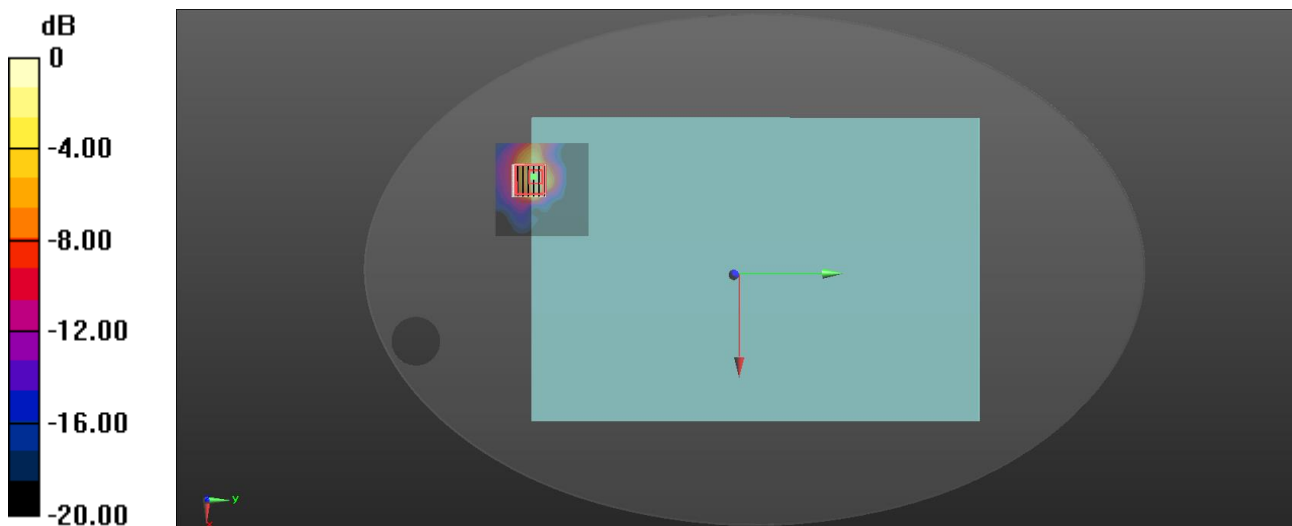
Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.200 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

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

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

50_WLAN 6 GHz_802.11ax HE160_Ch15_Bottom of laptop_0mm_ANT Main

Device under Test Properties Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	5.36	5.54	34.4

Hardware Setup Phantom

ELI V5.0 (20deg probe tilt) - 1175

TSL

HSL6G

Probe, Calibration Date

EX3DV4 - SN3977, 2023-03-21

DAE, Calibration Date

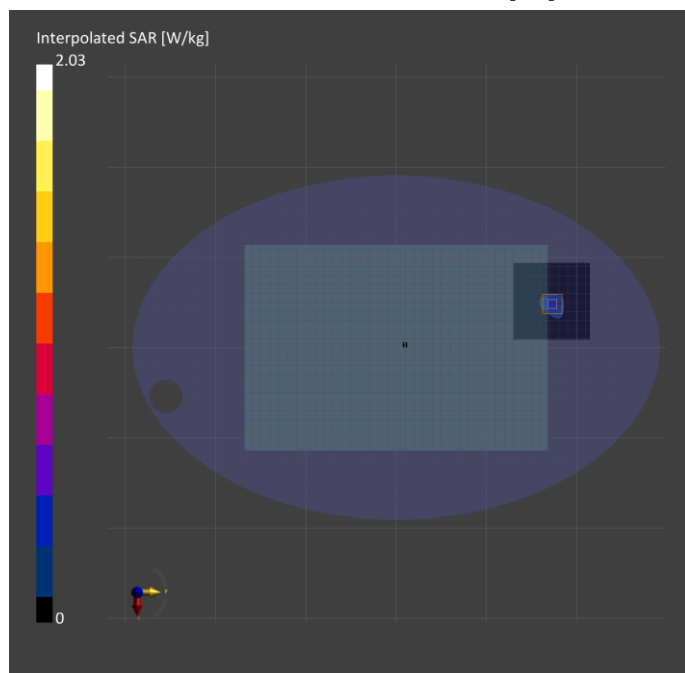
DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.346	0.439
psSAR10g [W/Kg]	0.118	0.140
psPDab (1.0cm2, sq) [W/m2]		4.39
psPDab (4.0cm2, sq) [W/m2]		3.21
Power Drift [dB]	-0.12	-0.01
TSL Correction	Positive only	Positive only
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		6.4



52_WLAN 6 GHz_802.11ax HE160_Ch111_Bottom of laptop_0mm_ANT Main

Device under Test Properties Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	5.36	6.09	33.7

Hardware Setup Phantom

ELI V5.0 (20deg probe tilt) - 1175

TSL

HSL6G

Probe, Calibration Date

EX3DV4 - SN3977, 2023-03-21

DAE, Calibration Date

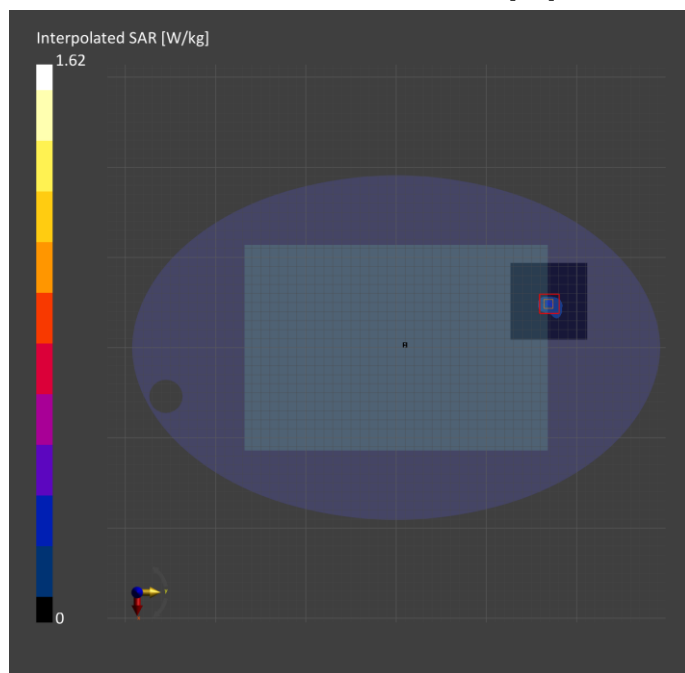
DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14, 14:01	2023-06-14, 14:11
psSAR1g [W/Kg]	0.223	0.295
psSAR10g [W/Kg]	0.079	0.094
psPDab (1.0cm2, sq) [W/m2]		2.95
psPDab (4.0cm2, sq) [W/m2]		2.17
Power Drift [dB]	-0.12	-0.16
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.4
Dist 3dB Peak [mm]		6.4



53_WLAN 6 GHz_802.11ax HE160_Ch143_Bottom of laptop_0mm_ANT Main

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	5.36	6.28	33.3

Hardware Setup
Phantom

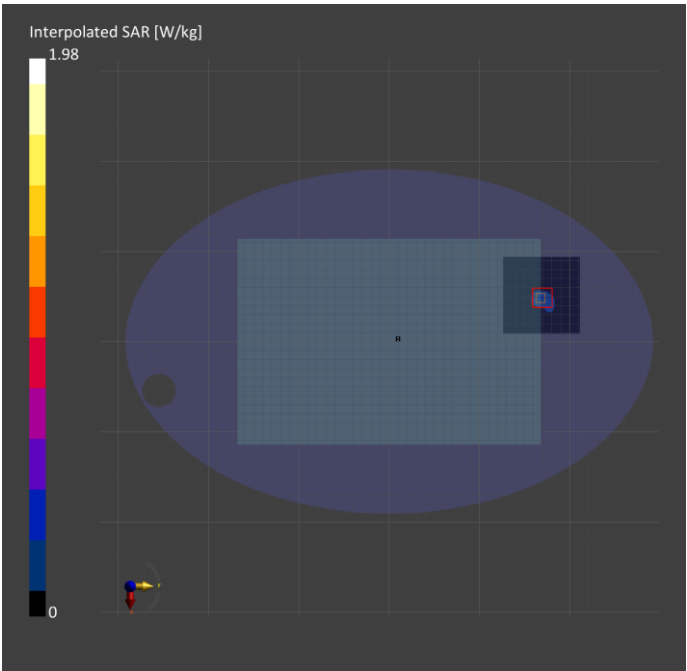
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.256	0.341
psSAR10g [W/Kg]	0.091	0.106
psPDab (1.0cm2, sq) [W/m2]		3.41
psPDab (4.0cm2, sq) [W/m2]		2.45
Power Drift [dB]	-0.03	0.03
TSL Correction	Positive only	Positive only
M2/M1 [%]		45.8
Dist 3dB Peak [mm]		6.3



54_WLAN 6 GHz_802.11ax HE160_Ch175_Bottom of laptop_0mm_ANT Main

Device under Test Properties Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	5.36	6.46	33.2

Hardware Setup Phantom

ELI V5.0 (20deg probe tilt) - 1175

TSL

HSL6G

Probe, Calibration Date

EX3DV4 - SN3977, 2023-03-21

DAE, Calibration Date

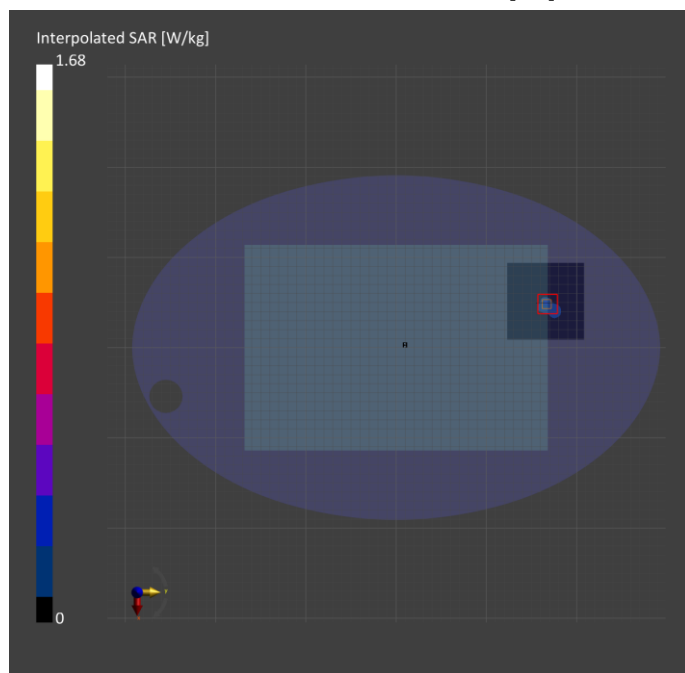
DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.221	0.278
psSAR10g [W/Kg]	0.072	0.080
psPDab (1.0cm2, sq) [W/m2]		2.78
psPDab (4.0cm2, sq) [W/m2]		1.87
Power Drift [dB]	0.32	0.12
TSL Correction	Positive only	Positive only
M2/M1 [%]		45.8
Dist 3dB Peak [mm]		6.1



55_WLAN 6 GHz_802.11ax HE160_Ch175_Bottom of laptop_0mm_ANT Main

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	5.36	6.57	32.7

Hardware Setup
Phantom

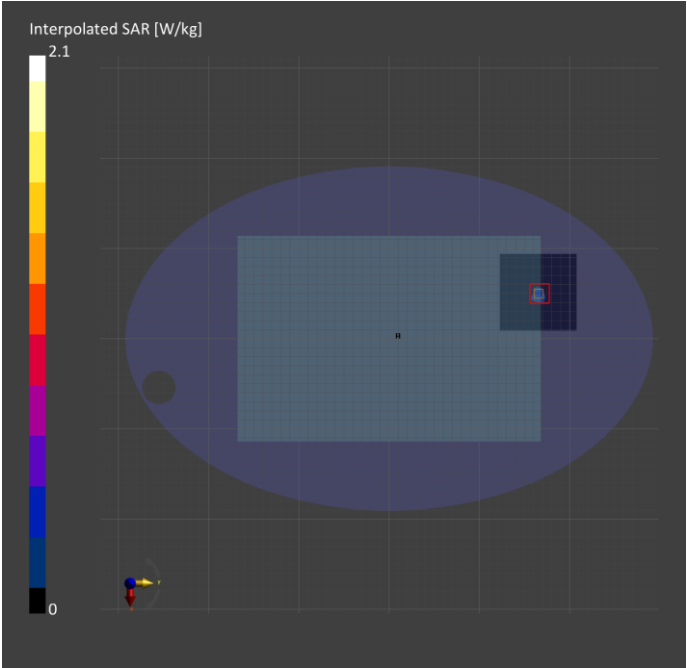
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.261	0.328
psSAR10g [W/Kg]	0.077	0.089
psPDab (1.0cm2, sq) [W/m2]		3.28
psPDab (4.0cm2, sq) [W/m2]		2.07
Power Drift [dB]	0.10	-0.13
TSL Correction	Positive only	Positive only
M2/M1 [%]		44.8
Dist 3dB Peak [mm]		5.4



56_WLAN 6 GHz_802.11ax HE160_Ch15_Bottom of laptop_0mm_ANT Aux

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	5.36	5.54	34.4

Hardware Setup

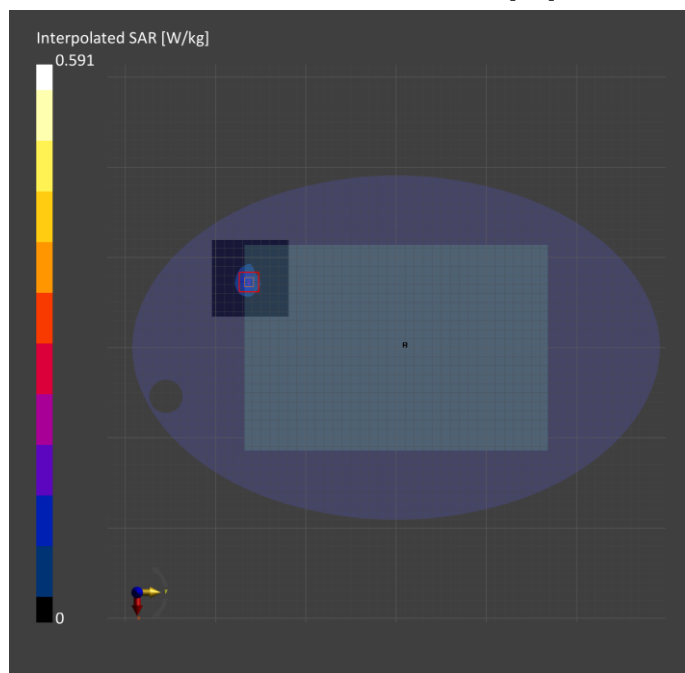
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.112	0.137
psSAR10g [W/Kg]	0.039	0.046
psPDab (1.0cm2, sq) [W/m2]		1.37
psPDab (4.0cm2, sq) [W/m2]		1.06
Power Drift [dB]	-0.11	-0.17
TSL Correction	Positive only	Positive only
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		8.8



58_WLAN 6 GHz_802.11ax HE160_Ch111_Bottom of laptop_0mm_ANT Aux

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	5.36	6.09	33.7

Hardware Setup
Phantom

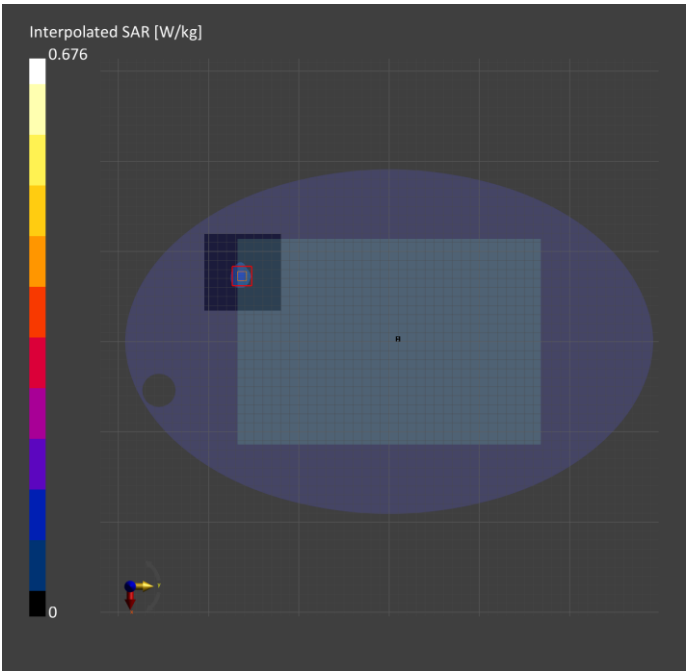
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.102	0.141
psSAR10g [W/Kg]	0.035	0.045
psPDab (1.0cm2, sq) [W/m2]		1.41
psPDab (4.0cm2, sq) [W/m2]		1.03
Power Drift [dB]	-0.11	0.02
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		7.8



59_WLAN 6 GHz_802.11ax HE160_Ch143_Bottom of laptop_0mm_ANT Aux

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	5.36	6.28	33.3

Hardware Setup
Phantom

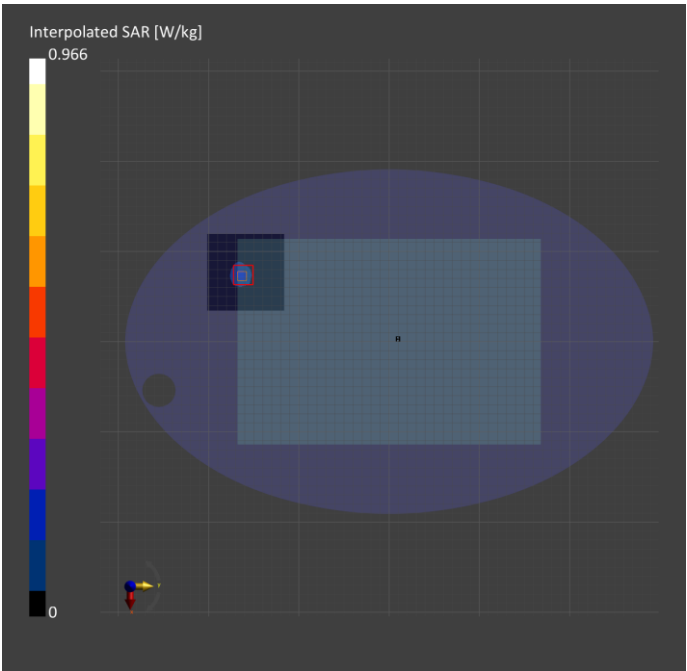
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.152	0.192
psSAR10g [W/Kg]	0.053	0.061
psPDab (1.0cm2, sq) [W/m2]		1.92
psPDab (4.0cm2, sq) [W/m2]		1.40
Power Drift [dB]	-0.12	-0.13
TSL Correction	Positive only	Positive only
M2/M1 [%]		48.7
Dist 3dB Peak [mm]		7.8



60_WLAN 6 GHz_802.11ax HE160_Ch175_Bottom of laptop_0mm_ANT Aux

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	5.36	6.46	33.2

Hardware Setup
Phantom

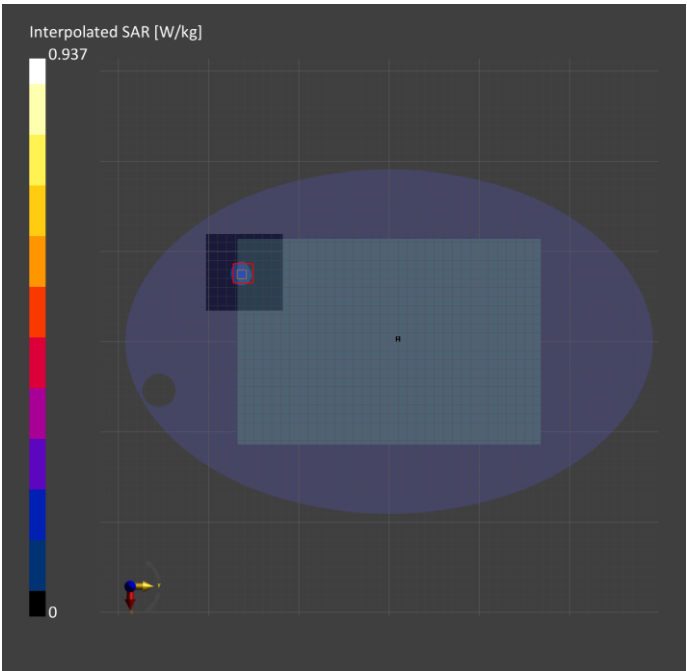
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.153	0.186
psSAR10g [W/Kg]	0.051	0.059
psPDab (1.0cm2, sq) [W/m2]		1.86
psPDab (4.0cm2, sq) [W/m2]		1.37
Power Drift [dB]	-0.48	0.14
TSL Correction	Positive only	Positive only
M2/M1 [%]		48.0
Dist 3dB Peak [mm]		8.2



60_WLAN 6 GHz_802.11ax HE160_Ch207_Bottom of laptop_0mm_ANT Aux

Device under Test Properties
Model: UM3504D

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom of laptop, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	5.36	6.57	32.7

Hardware Setup
Phantom

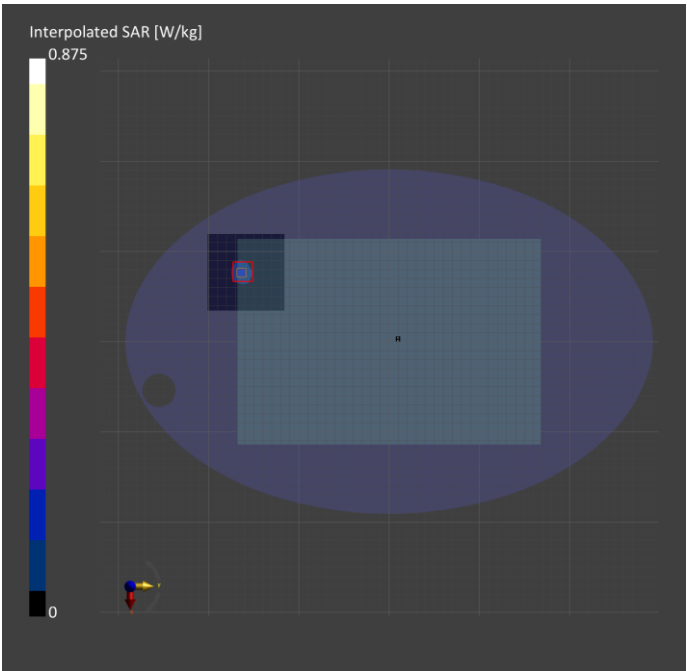
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3977, 2023-03-21	DAE4 Sn779, 2022-07-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-06-14	2023-06-14
psSAR1g [W/Kg]	0.141	0.171
psSAR10g [W/Kg]	0.047	0.056
psPDab (1.0cm2, sq) [W/m2]		1.71
psPDab (4.0cm2, sq) [W/m2]		1.29
Power Drift [dB]	0.34	0.03
TSL Correction	Positive only	Positive only
M2/M1 [%]		46.1
Dist 3dB Peak [mm]		7.1



83_WLAN 6 GHz_802.11ax HE160_Ch175_Bottom of laptop_2 mm_ANT Main

Device under Test Properties

Model:UM3504D

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Bottom of laptop, 2.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	1.0

Hardware Setup

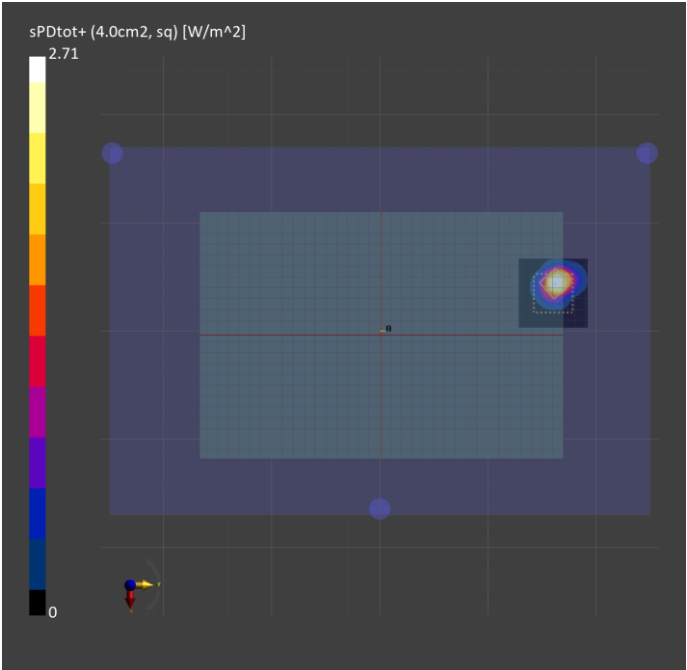
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2022-12-07	DAE4 Sn779, 2022-07-19

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2023-06-15
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.17
psPDtot+ [W/m²]	2.71
psPDmod+ [W/m²]	5.69
E _{max} [V/m]	65.5
H _{max} [A/m]	0.415
Power Drift [dB]	-0.18



89_WLAN 6 GHz_802.11ax HE160_Ch175_Bottom of laptop_2 mm_ANT Aux

Device under Test Properties

Model:UM3504D

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Bottom of laptop, 2.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2022-12-07	DAE4 Sn779, 2022-07-19

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2023-06-15
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.02
psPDtot+ [W/m²]	1.98
psPDmod+ [W/m²]	2.66
E _{max} [V/m]	42.8
H _{max} [A/m]	0.172
Power Drift [dB]	0.11

