

Appendix C - Highest Measurement Plots

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/22

03_WLAN2.4GHz_802.11b_Ch11_Bottom of laptop_0mm_Ant Main

DUT: UX582Z

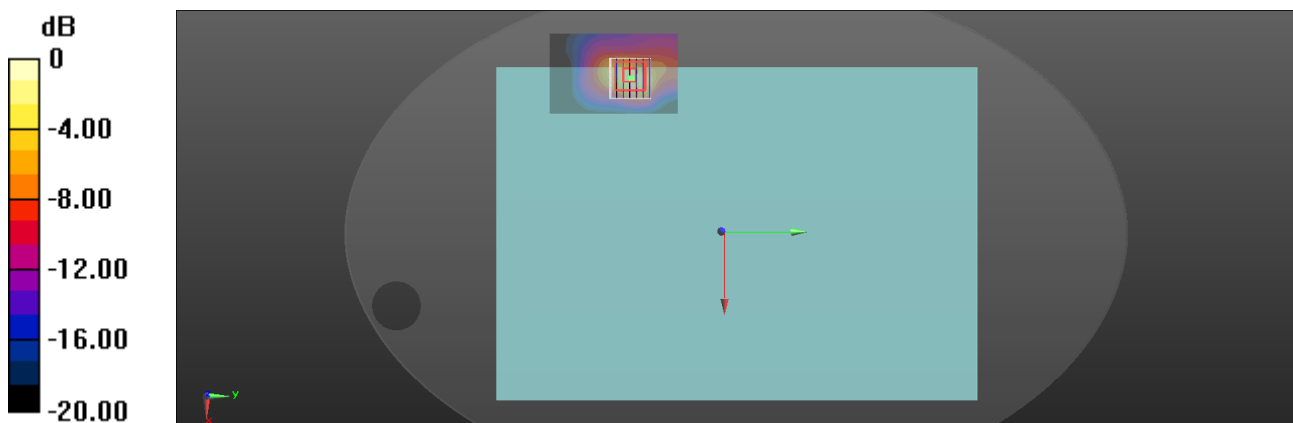
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1.011
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.803 \text{ S/m}$; $\epsilon_r = 39.669$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.5 W/kg
- Probe: EX3DV4 - SN3977; ConvF(7.28, 7.28, 7.28) @ 2462 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (51x81x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
Maximum value of SAR (interpolated) = 0.710 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5 \text{ mm}$, $dy=5 \text{ mm}$, $dz=5 \text{ mm}$
Reference Value = 22.19 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.202 W/kg
Smallest distance from peaks to all points 3 dB below = 5.4 mm
Ratio of SAR at M2 to SAR at M1 = 38.9%
Maximum value of SAR (measured) = 0.937 W/kg



0 dB = 0.937 W/kg = -0.28 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/25

08_WLAN2.4GHz_802.11b_Ch6_Bottom of laptop_0mm_Ant Aux

DUT: UX582Z

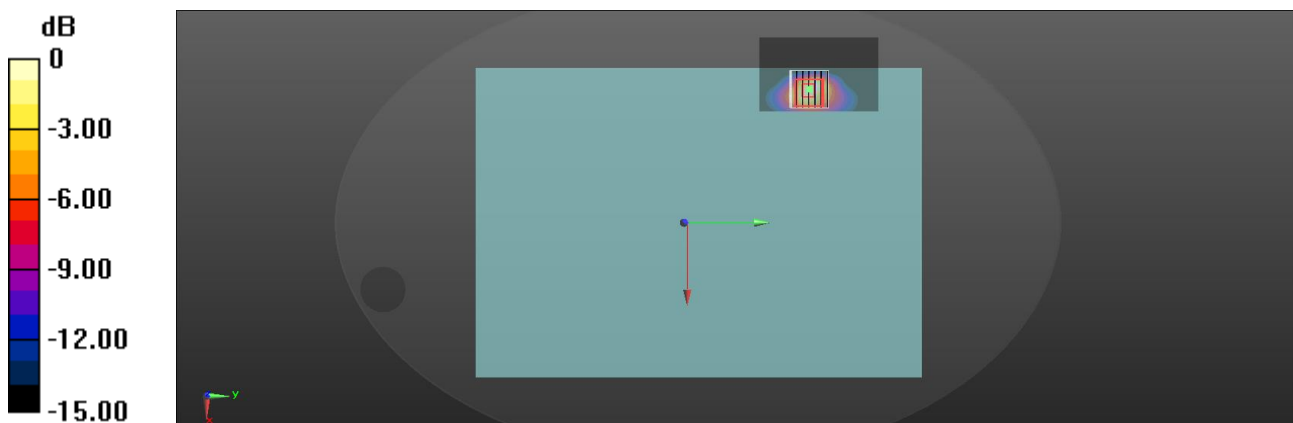
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.011
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.791$ S/m; $\epsilon_r = 38.547$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.5 W/kg
- Probe: EX3DV4 - SN3977; ConvF(7.28, 7.28, 7.28) @ 2437 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (51x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 1.98 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 30.29 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.63 W/kg
SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.436 W/kg
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 37.9%
Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/22

13_Bluetooth_Ch0_Bottom of laptop_0mm_Ant Aux

DUT: UX582Z

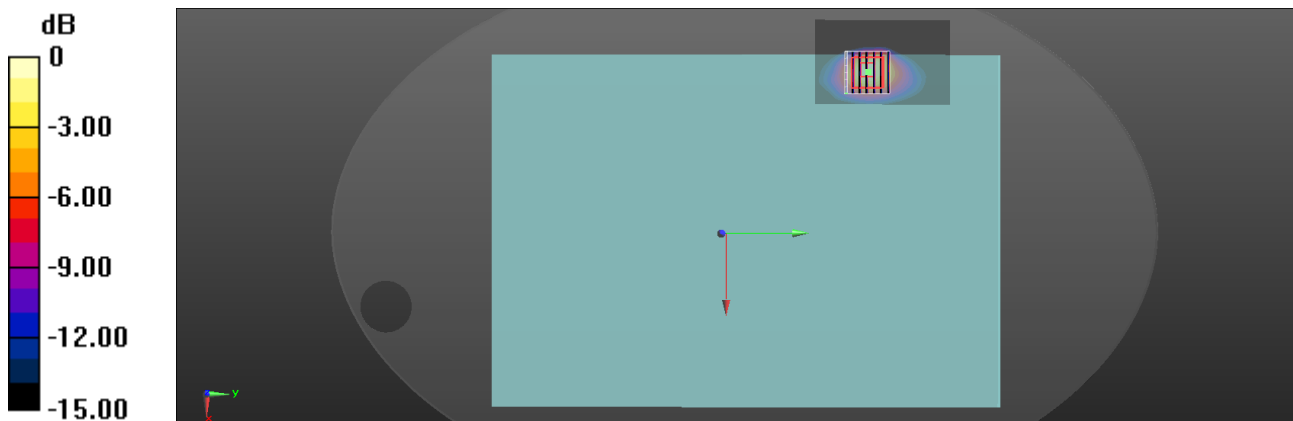
Communication System: UID 0, Bluetooth 3.0 (0); Frequency: 2402 MHz; Duty Cycle: 1:1.304
Medium parameters used: $f = 2402$ MHz; $\sigma = 1.732$ S/m; $\epsilon_r = 39.849$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(7.28, 7.28, 7.28) @ 2402 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (51x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.355 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 14.39 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.456 W/kg
SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.078 W/kg
Smallest distance from peaks to all points 3 dB below = 6.7 mm
Ratio of SAR at M2 to SAR at M1 = 38.9%
Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/23

18_WLAN5GHz_802.11n HT40_Ch54_Bottom of laptop_0mm_Ant Main

DUT: UX582Z

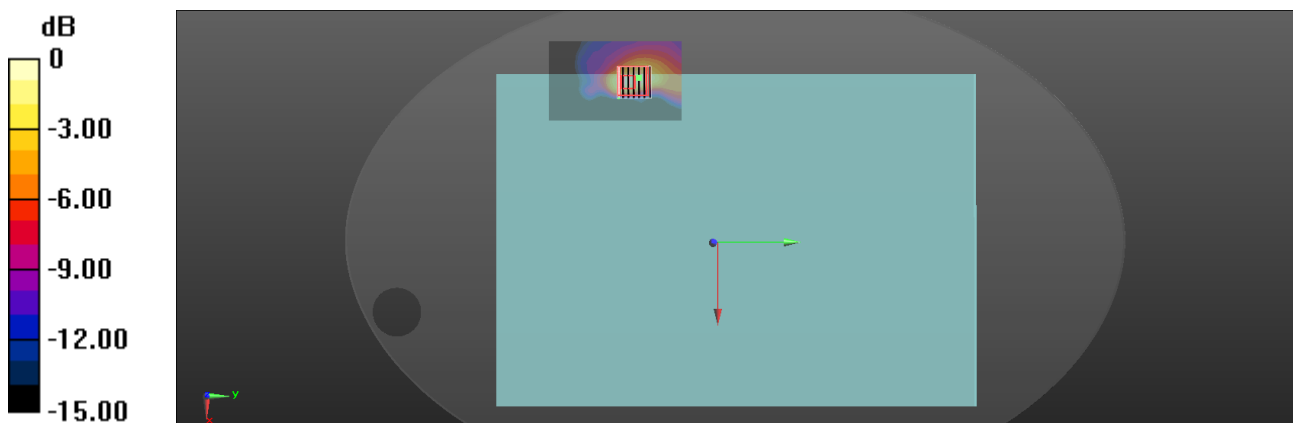
Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5270 MHz;Duty Cycle: 1:1.024
Medium parameters used: $f = 5270$ MHz; $\sigma = 4.7$ S/m; $\epsilon_r = 36.544$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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(5.04, 5.04, 5.04) @ 5270 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.71 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 15.11 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.85 W/kg
SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.245 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 66.1%
Maximum value of SAR (measured) = 1.59 W/kg



0 dB = 1.59 W/kg = 2.01 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/23

20_WLAN5GHz_802.11ac VHT80_Ch58_Bottom of laptop_0mm_Ant Aux

DUT: UX582Z

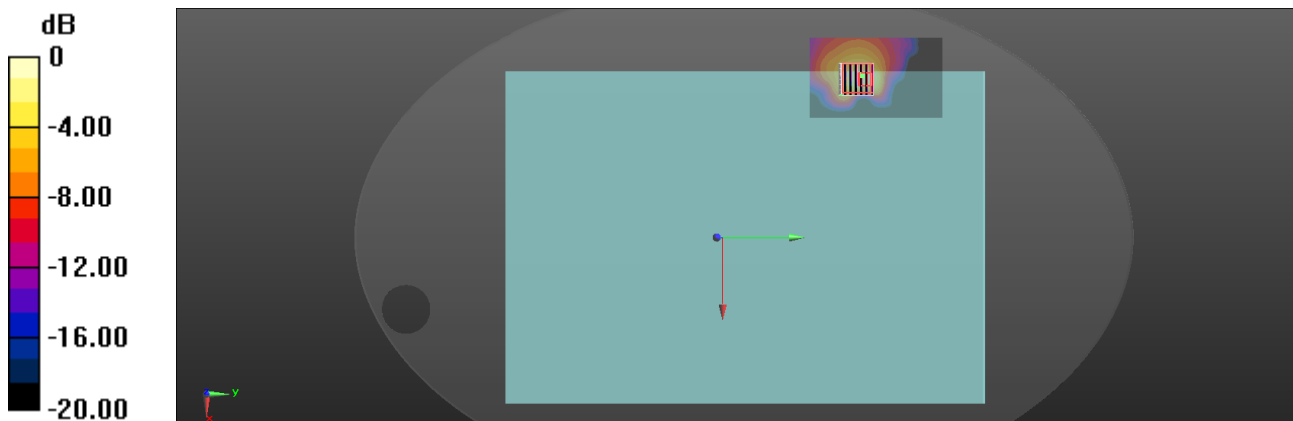
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5290 MHz;Duty Cycle: 1:1.016
Medium parameters used: $f = 5290$ MHz; $\sigma = 4.725$ S/m; $\epsilon_r = 36.508$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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(5.04, 5.04, 5.04) @ 5290 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.77 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 19.67 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.97 W/kg
SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.263 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 67.8%
Maximum value of SAR (measured) = 1.72 W/kg



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

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/23

25_WLAN5GHz_802.11ac VHT80_Ch138_Bottom of laptop_0mm_Ant Main

DUT: UX582Z

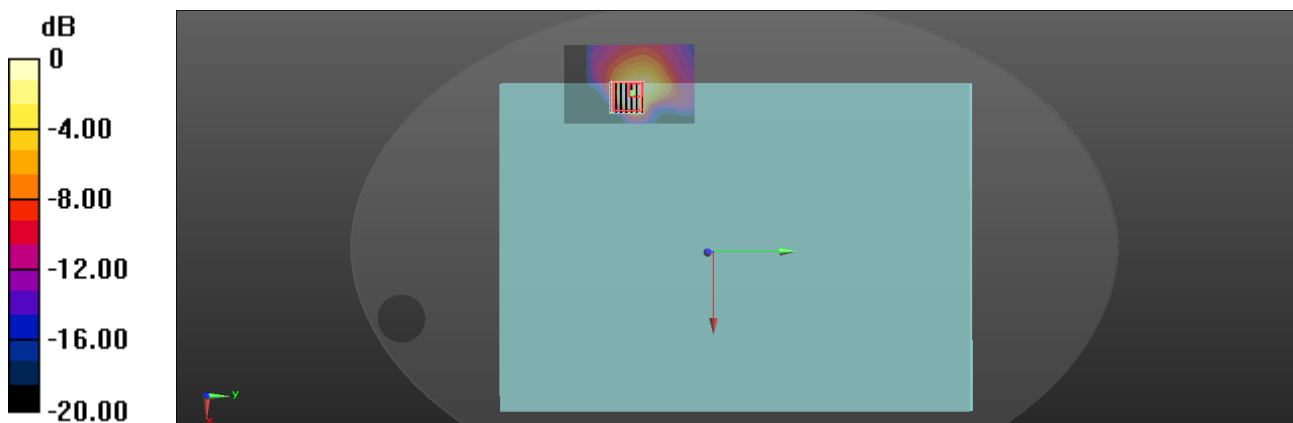
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5690 MHz;Duty Cycle: 1:1.016
Medium parameters used: $f = 5690$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 35.665$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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(4.64, 4.64, 4.64) @ 5690 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.09 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 15.57 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 0.901 W/kg; SAR(10 g) = 0.271 W/kg
Smallest distance from peaks to all points 3 dB below = 7.9 mm
Ratio of SAR at M2 to SAR at M1 = 62.7%
Maximum value of SAR (measured) = 2.12 W/kg



0 dB = 2.12 W/kg = 3.26 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/23

29_WLAN5GHz_802.11ac VHT80_Ch138_Bottom of laptop_0mm_Ant Aux

DUT: UX582Z

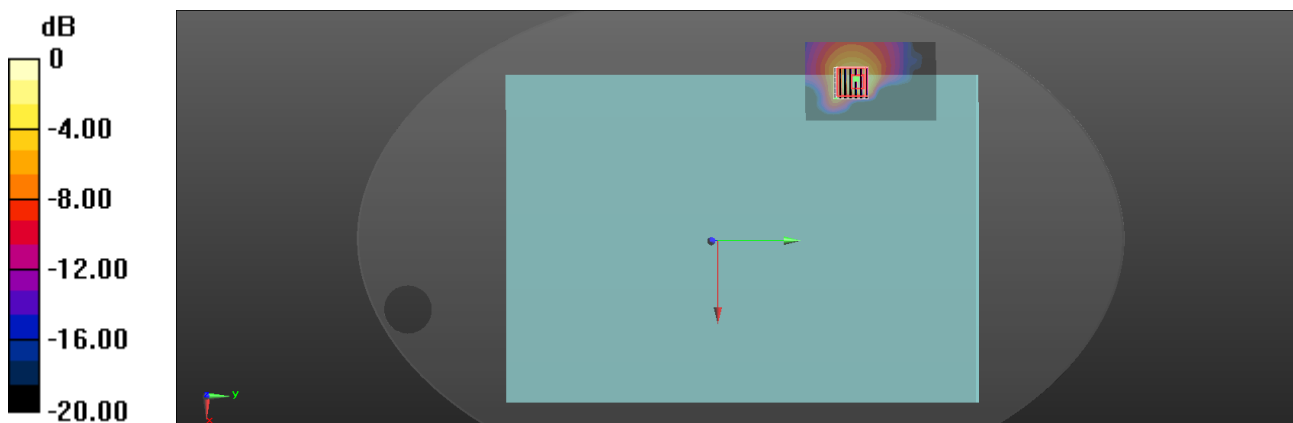
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5690 MHz;Duty Cycle: 1:1.016
Medium parameters used: $f = 5690$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 35.665$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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(4.64, 4.64, 4.64) @ 5690 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.13 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 20.48 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.37 W/kg
SAR(1 g) = 0.845 W/kg; SAR(10 g) = 0.277 W/kg
Smallest distance from peaks to all points 3 dB below = 7.5 mm
Ratio of SAR at M2 to SAR at M1 = 62.9%
Maximum value of SAR (measured) = 2.03 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/23

32_WLAN5GHz_802.11n HT40_Ch151_Bottom of laptop_0mm_Ant Main

DUT: UX582Z

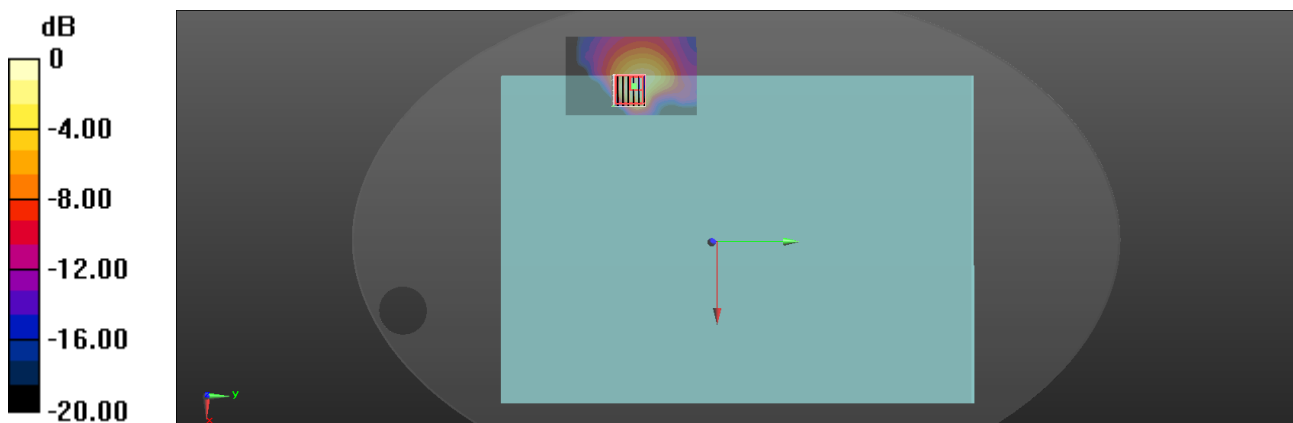
Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5755 MHz; Duty Cycle: 1:1.024
Medium parameters used: $f = 5755$ MHz; $\sigma = 5.322$ S/m; $\epsilon_r = 35.675$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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(4.64, 4.64, 4.64) @ 5755 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 2.03 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 15.58 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 3.63 W/kg
SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.271 W/kg
Smallest distance from peaks to all points 3 dB below = 7.9 mm
Ratio of SAR at M2 to SAR at M1 = 62.1%
Maximum value of SAR (measured) = 2.09 W/kg



0 dB = 2.09 W/kg = 3.20 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/23

34_WLAN5GHz_802.11ac VHT80_Ch155_Bottom of laptop_0mm_Ant Aux

DUT: UX582Z

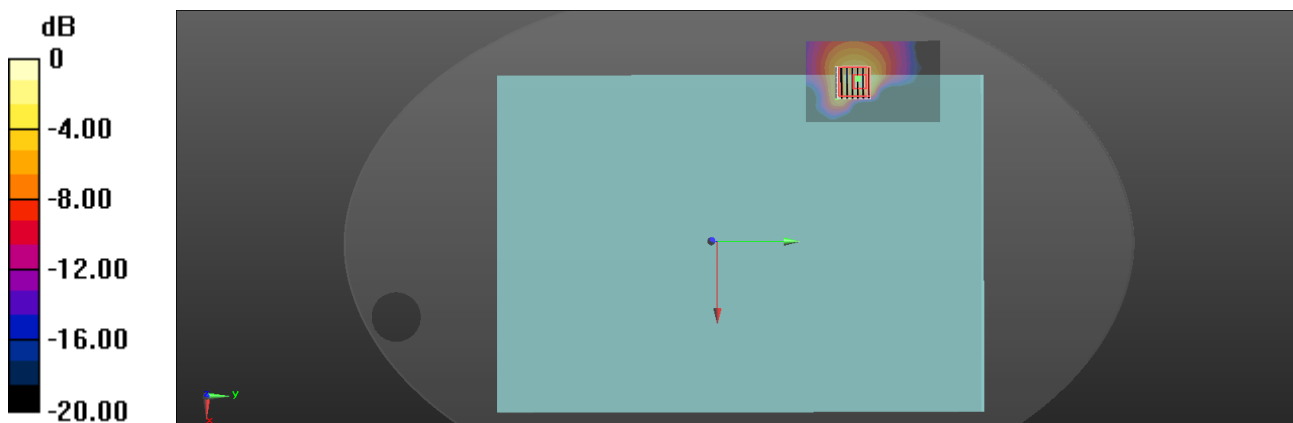
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.016
Medium parameters used: $f = 5775$ MHz; $\sigma = 5.3$ S/m; $\epsilon_r = 35.694$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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(4.64, 4.64, 4.64) @ 5775 MHz; Calibrated: 2021/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2021/7/30
- Phantom: ELI V4.0; Type: QD OVA 001 BB; Serial: 1036
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.22 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 21.33 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 3.54 W/kg
SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.290 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 62.1%
Maximum value of SAR (measured) = 2.10 W/kg



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

Test Laboratory: A Test Lab Techno Corp.

37_WLAN6GHz_802.11ax HE160_Ch15_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: **UX582Z**

Exposure Conditions

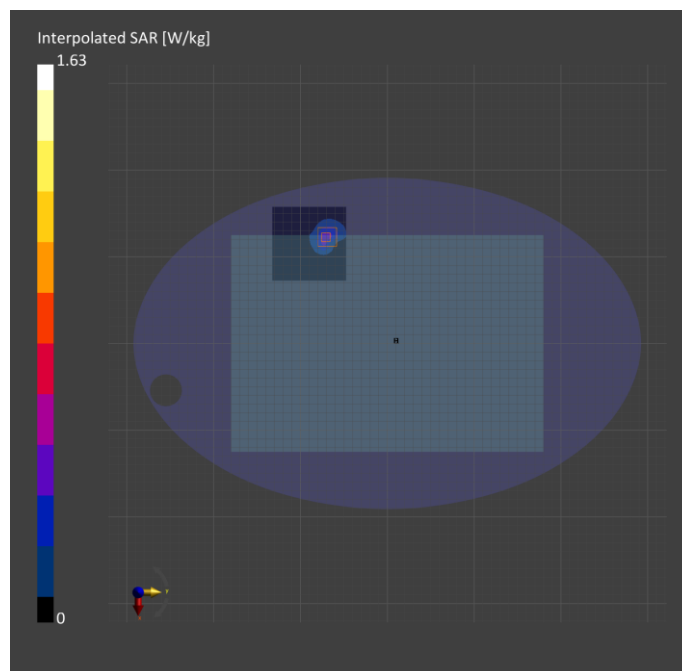
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Bottom of laptop, 0.00	U-NII-5	WLAN, 10743-AAC	6025.0, 15	5.6	5.62	35.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0	Date	2021-11-24	2021-11-24
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	psSAR1g [W/Kg]	0.362	0.381
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/Kg]	0.132	0.136
			Power Drift [dB]	-0.07	-0.04
			TSL Correction	Positive only	Positive only
			M2/M1 [%]		54.2
			Dist 3dB Peak [mm]		8.2



Test Laboratory: A Test Lab Techno Corp.

41_WLAN6GHz_802.11ax HE160_Ch15_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: UX582Z

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,	Bottom of laptop, 0.00	U-NII-5	WLAN, 10743-AAC	6025.0, 15	5.6	5.62	35.3

Hardware Setup

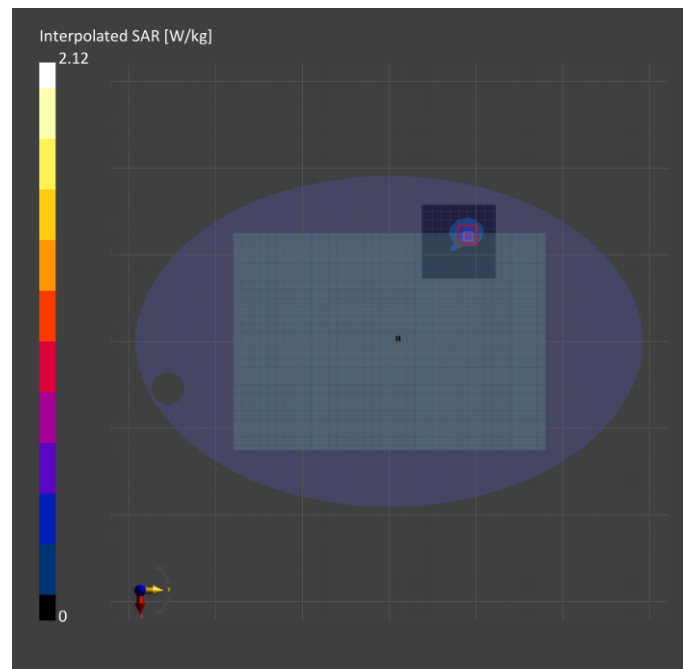
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.465	0.494
psSAR10g [W/Kg]	0.166	0.170
Power Drift [dB]	0.08	0.06
TSL Correction	Positive only	Positive only
M2/M1 [%]		55.4
Dist 3dB Peak [mm]		7.2



Test Laboratory: A Test Lab Techno Corp.

45_WLAN6GHz_802.11ax HE160_Ch111_Bottom of laptop_0mm_Ant Main
Device under Test Properties

Model: **UX582Z**
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,	Bottom of laptop, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.6	6.20	34.6

Hardware Setup

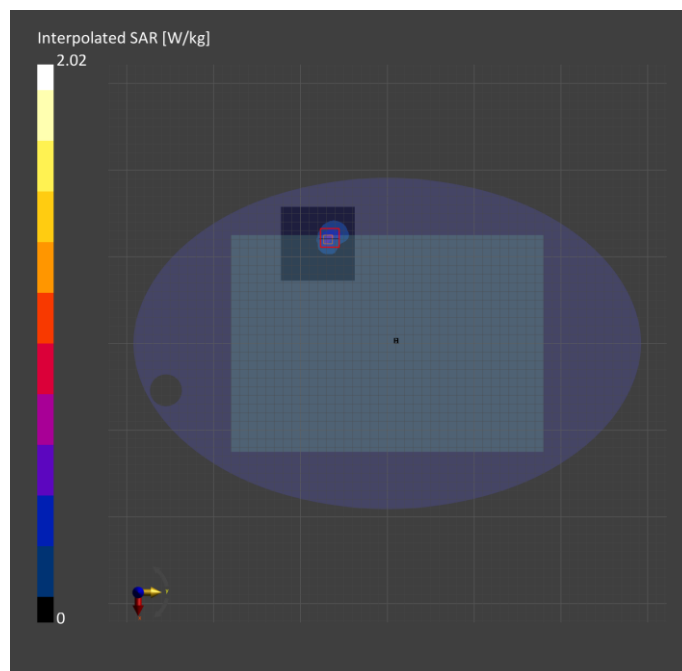
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.433	0.440
psSAR10g [W/Kg]	0.158	0.158
Power Drift [dB]	0.03	-0.11
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		7.5



Test Laboratory: A Test Lab Techno Corp.

48_WLAN6GHz_802.11ax HE160_Ch111_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: UX582Z

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,	Bottom of laptop, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.6	6.20	34.6

Hardware Setup

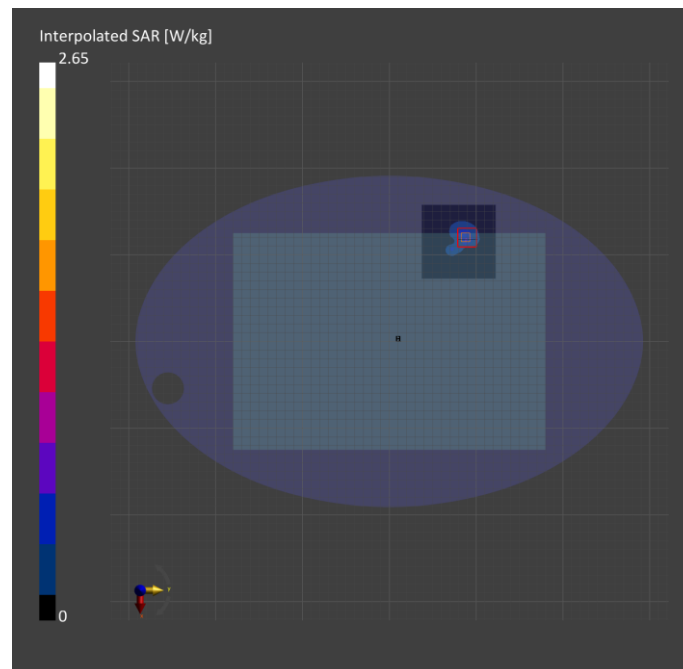
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.514	0.540
psSAR10g [W/Kg]	0.178	0.176
Power Drift [dB]	0.02	-0.11
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		6.1



Test Laboratory: A Test Lab Techno Corp.

51_WLAN6GHz_802.11ax HE160_Ch143_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: UX582Z

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,	Bottom of laptop, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.6	6.41	34.1

Hardware Setup

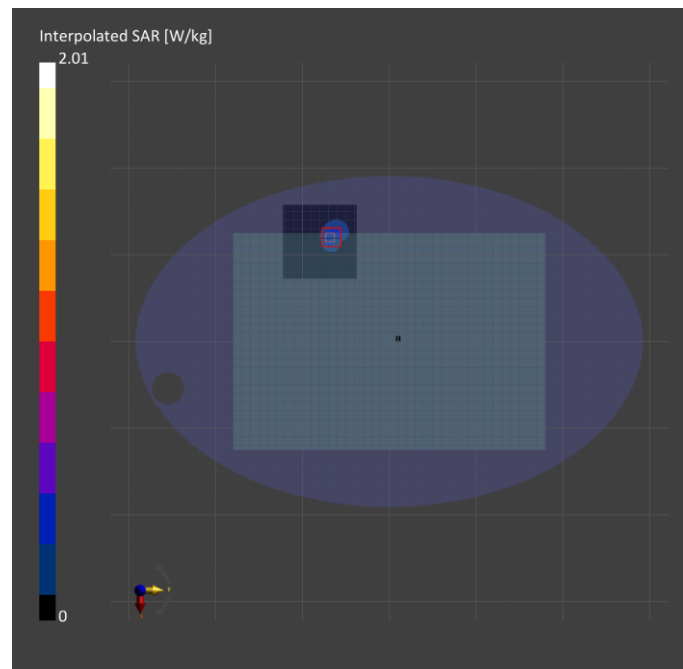
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.405	0.412
psSAR10g [W/Kg]	0.148	0.142
Power Drift [dB]	-0.17	-0.18
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		6.8



Test Laboratory: A Test Lab Techno Corp.

54_WLAN6GHz_802.11ax HE160_Ch143_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: **UX582Z**

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,	Bottom of laptop, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.6	6.41	34.1

Hardware Setup

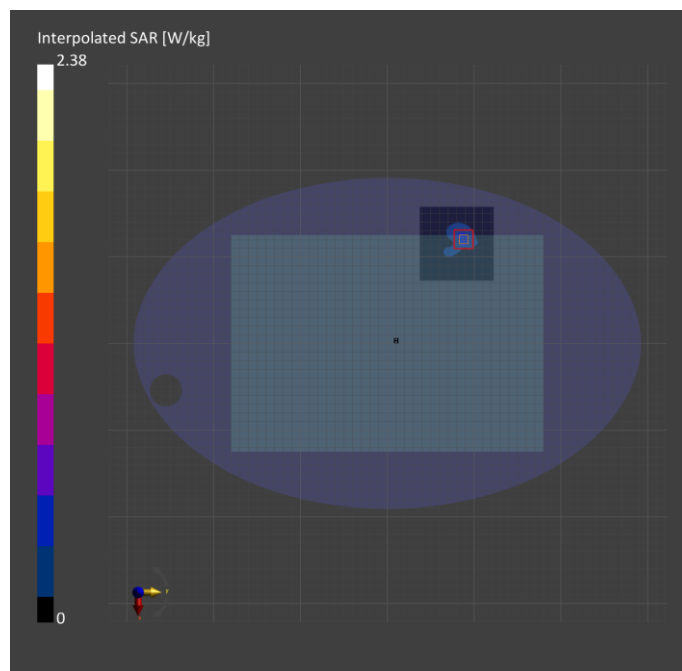
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.427	0.454
psSAR10g [W/Kg]	0.148	0.145
Power Drift [dB]	0.15	0.13
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		5.8



Test Laboratory: A Test Lab Techno Corp.

57_WLAN6GHz_802.11ax HE160_Ch207_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: UX582Z

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,	Bottom of laptop, 0.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207	5.6	6.76	33.5

Hardware Setup

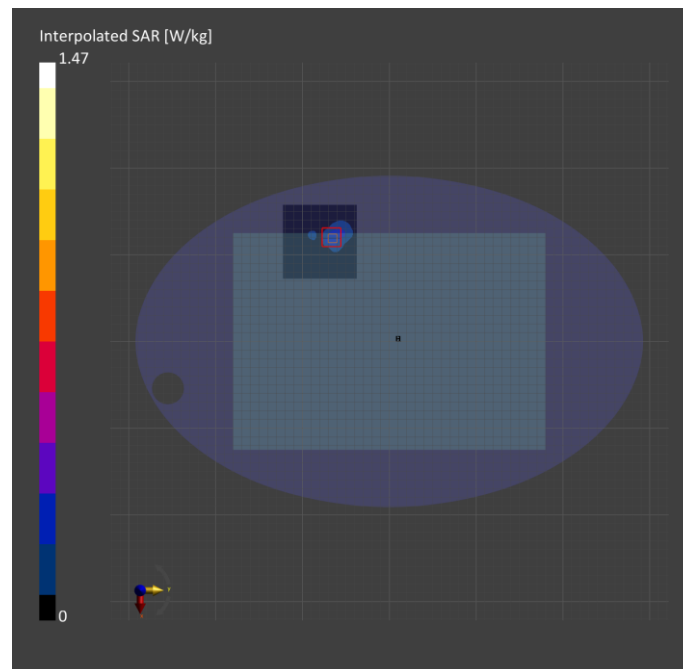
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.295	0.284
psSAR10g [W/Kg]	0.109	0.098
Power Drift [dB]	0.09	0.01
TSL Correction	Positive only	Positive only
M2/M1 [%]		46.6
Dist 3dB Peak [mm]		6.7



Test Laboratory: A Test Lab Techno Corp.

60_WLAN6GHz_802.11ax HE160_Ch207_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: **UX582Z**

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,	Bottom of laptop, 0.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207	5.6	6.76	33.5

Hardware Setup

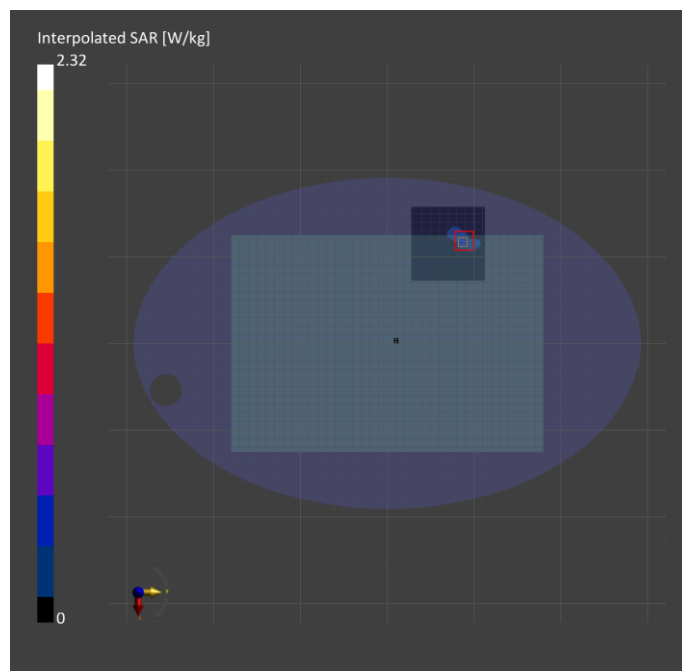
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-24	2021-11-24
psSAR1g [W/Kg]	0.366	0.389
psSAR10g [W/Kg]	0.117	0.115
Power Drift [dB]	0.06	0.02
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.0
Dist 3dB Peak [mm]		5.5



70_WLAN6GHz_802.11ax HE160_Ch15_Bottom of laptop_2 mm_Ant Main
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-5	WLAN, 10755-AAC	6025.0, 15	1.0

Hardware Setup

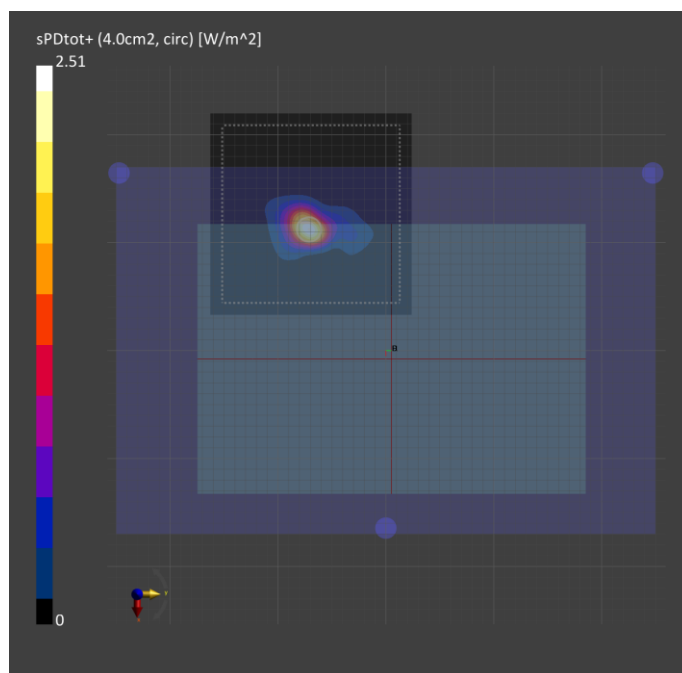
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.12
psPDtot+ [W/m ²]	2.51
psPDmod+ [W/m ²]	3.51
E _{max} [V/m]	45.5
H _{max} [A/m]	0.115
Power Drift [dB]	0.13



71_WLAN6GHz_802.11ax HE160_Ch15_Bottom of laptop_2 mm_Ant Aux
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-5	WLAN, 10755-AAC	6025.0, 15	1.0

Hardware Setup

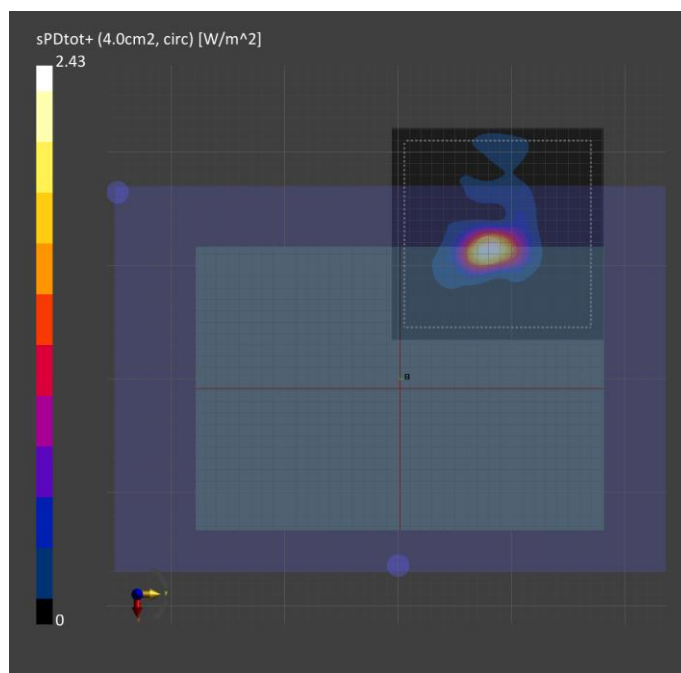
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.22
psPDtot+ [W/m ²]	2.43
psPDmod+ [W/m ²]	2.92
E _{max} [V/m]	38.6
H _{max} [A/m]	0.102
Power Drift [dB]	-0.08



79_WLAN6GHz_802.11ax HE160_Ch47_Bottom of laptop_2 mm_Ant Aux
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setup

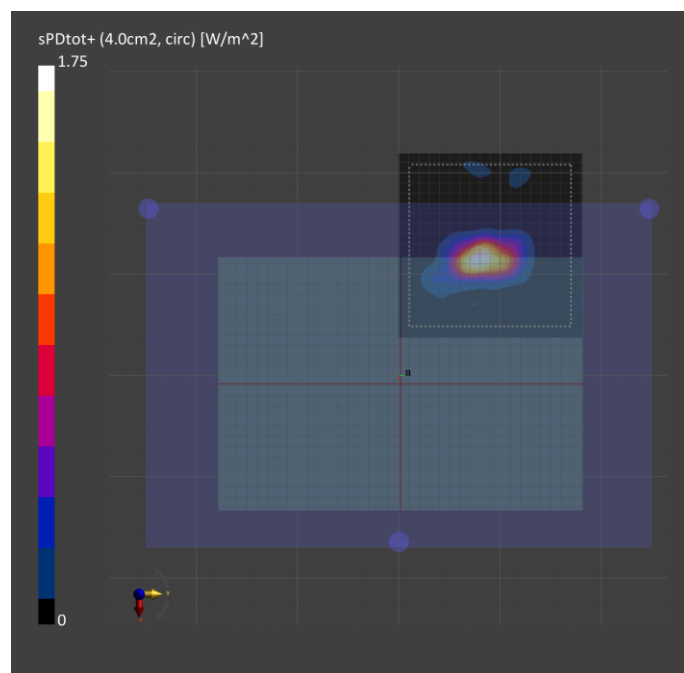
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.60
psPDtot+ [W/m ²]	1.75
psPDmod+ [W/m ²]	2.36
E _{max} [V/m]	40.9
H _{max} [A/m]	0.095
Power Drift [dB]	-0.03



72_WLAN6GHz_802.11ax HE160_Ch111_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-6	WLAN, 10755-AAC	6505.0, 111	1.0

Hardware Setup

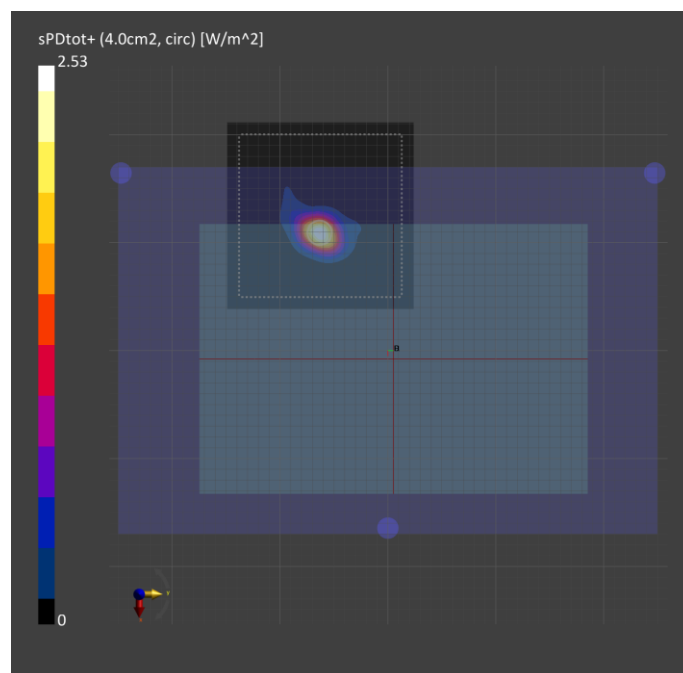
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.21
psPDtot+ [W/m ²]	2.53
psPDmod+ [W/m ²]	3.99
E _{max} [V/m]	52.6
H _{max} [A/m]	0.139
Power Drift [dB]	0.11



73_WLAN6GHz_802.11ax HE160_Ch111_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-6	WLAN, 10755-AAC	6505.0, 111	1.0

Hardware Setup

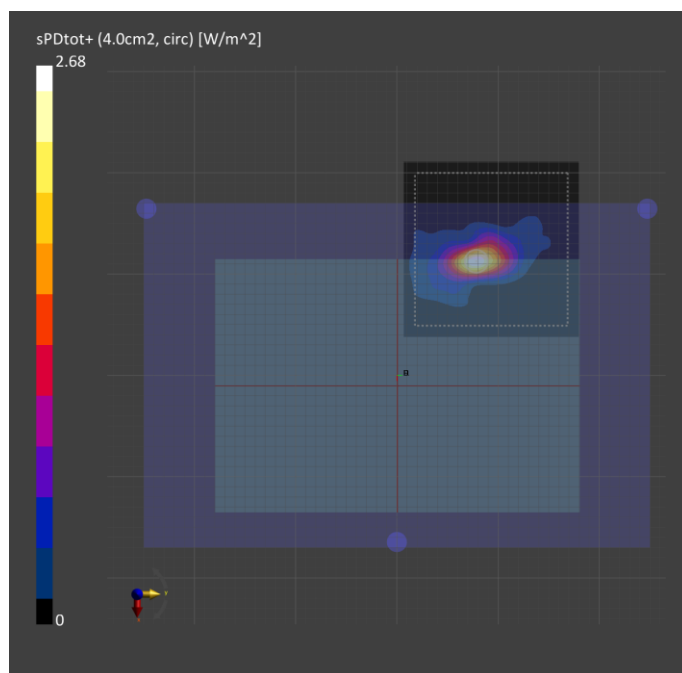
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.47
psPDtot+ [W/m ²]	2.68
psPDmod+ [W/m ²]	3.19
E _{max} [V/m]	43.3
H _{max} [A/m]	0.116
Power Drift [dB]	0.03



74_WLAN6GHz_802.11ax HE160_Ch143_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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	6665.0, 143	1.0

Hardware Setup

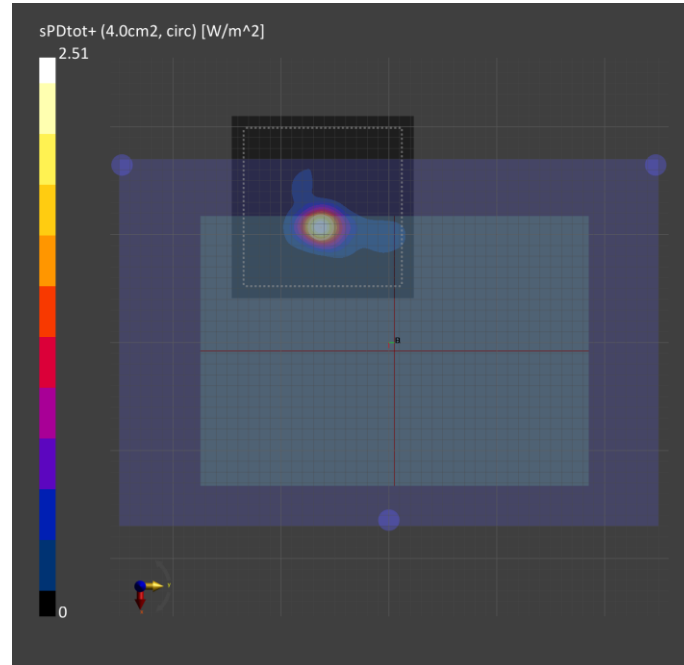
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.13
psPDtot+ [W/m ²]	2.51
psPDmod+ [W/m ²]	3.37
E _{max} [V/m]	52.8
H _{max} [A/m]	0.117
Power Drift [dB]	0.05



78_WLAN6GHz_802.11ax HE160_Ch175_Bottom of laptop_2 mm_Ant Main
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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

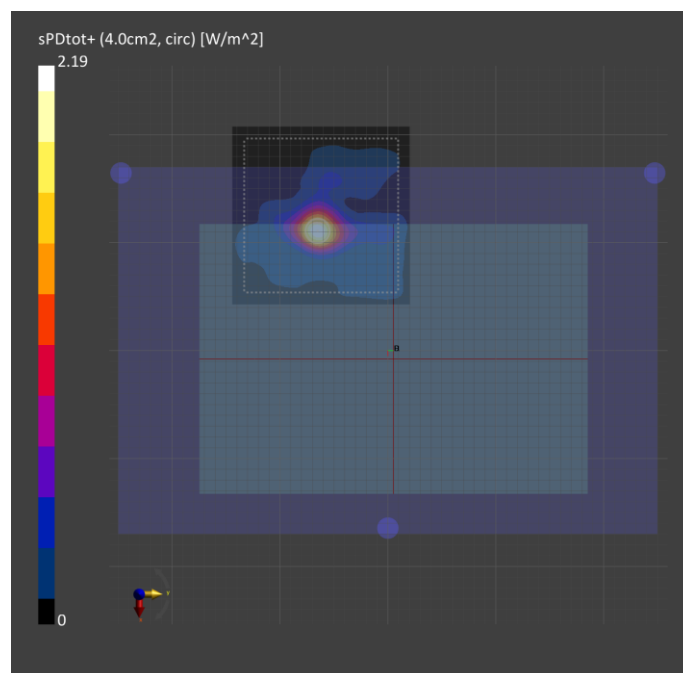
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.04
psPDtot+ [W/m ²]	2.19
psPDmod+ [W/m ²]	2.66
E _{max} [V/m]	43.3
H _{max} [A/m]	0.116
Power Drift [dB]	-0.14



75_WLAN6GHz_802.11ax HE160_Ch143_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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	6665.0, 143	1.0

Hardware Setup

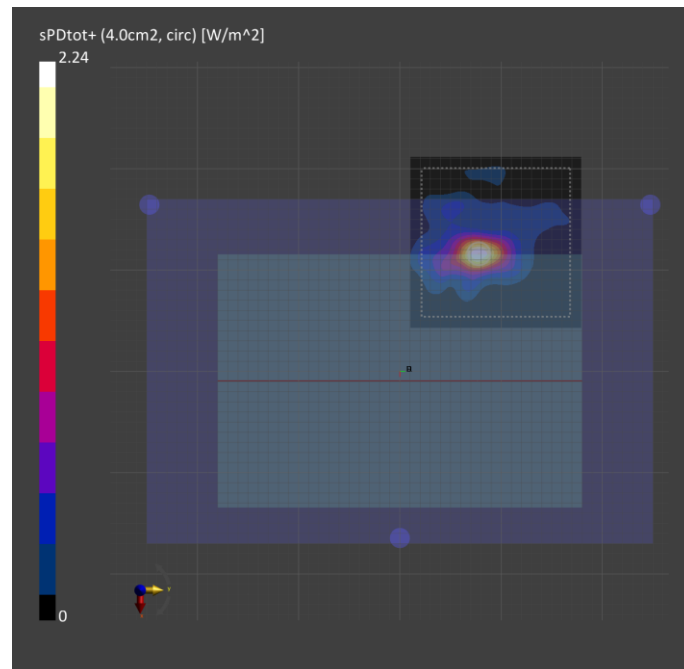
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.85
psPDtot+ [W/m ²]	2.24
psPDmod+ [W/m ²]	2.71
E _{max} [V/m]	38.0
H _{max} [A/m]	0.100
Power Drift [dB]	-0.01



76_WLAN6GHz_802.11ax HE160_Ch207_Bottom of laptop_2 mm_Ant Main
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

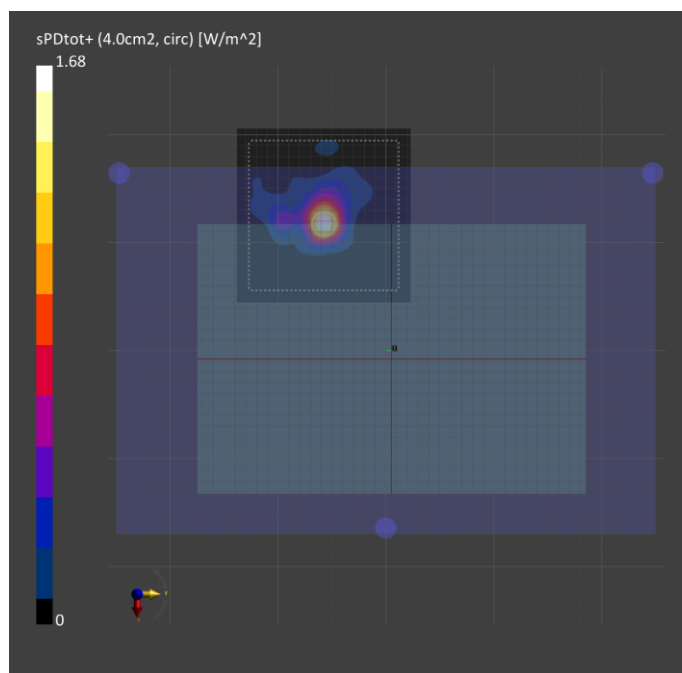
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.58
psPDtot+ [W/m ²]	1.68
psPDmod+ [W/m ²]	2.08
E _{max} [V/m]	41.4
H _{max} [A/m]	0.097
Power Drift [dB]	-0.16



77_WLAN6GHz_802.11ax HE160_Ch207_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, UX582Z	360.0 x 250.0 x 24.0		Laptop

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-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-11-29
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.00
psPDtot+ [W/m ²]	1.15
psPDmod+ [W/m ²]	1.54
E _{max} [V/m]	32.0
H _{max} [A/m]	0.093
Power Drift [dB]	0.10

