

Appendix C - SAR Highest Measurement Plots

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/23

31_WLAN 2.4 GHz_802.11b_Ch1_Bottom of laptop_0 mm_ANT Main

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

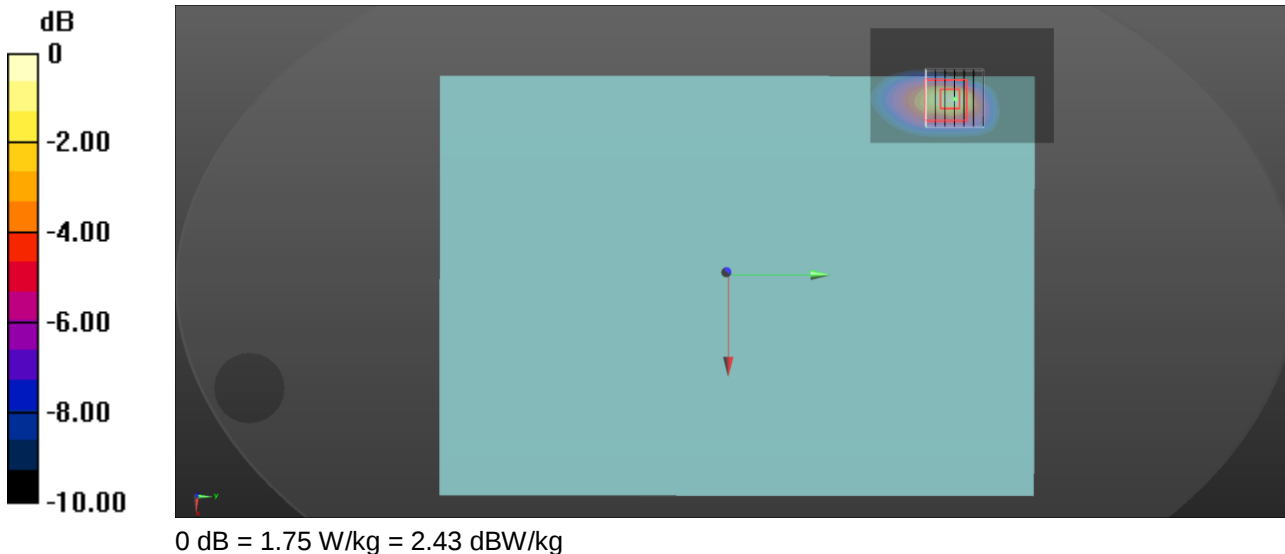
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2412 MHz; Duty Cycle: 1:1.002
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.765$ S/m; $\epsilon_r = 40.029$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(7.59, 7.59, 7.59) @ 2412 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, 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) = 1.60 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 24.47 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 2.29 W/kg
SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.359 W/kg
Smallest distance from peaks to all points 3 dB below = 5.2 mm
Ratio of SAR at M2 to SAR at M1 = 40.8%
Maximum value of SAR (measured) = 1.75 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/23

32_WLAN 2.4 GHz_802.11b_Ch6_Bottom of laptop_0 mm_ANT Aux

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

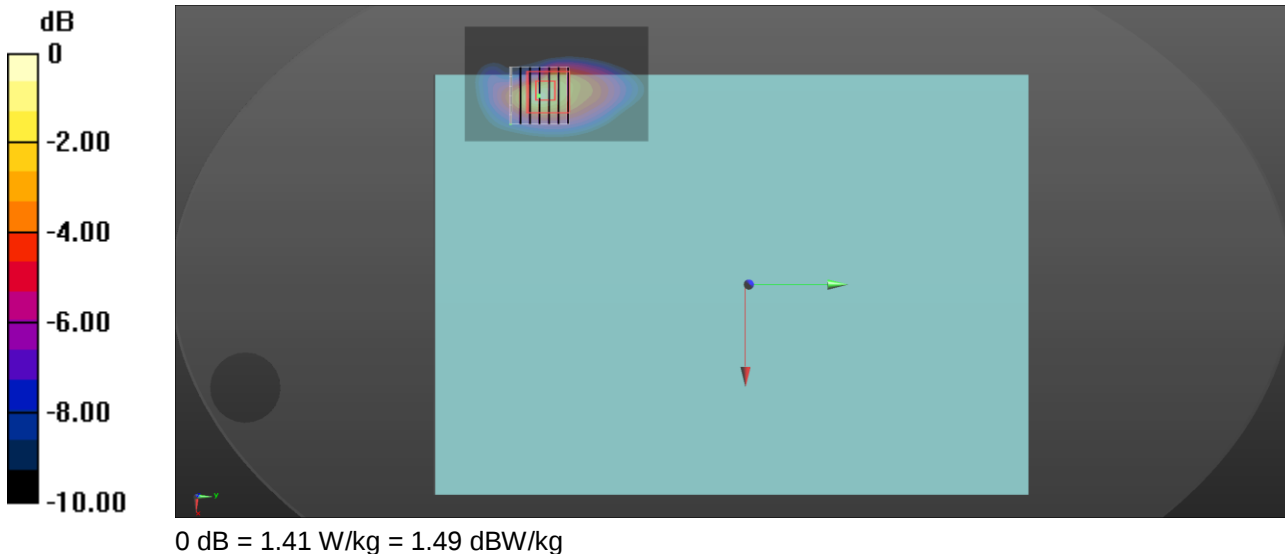
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.002
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 39.954$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(7.59, 7.59, 7.59) @ 2437 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, 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) = 1.32 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 20.71 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.354 W/kg
Smallest distance from peaks to all points 3 dB below = 6.3 mm
Ratio of SAR at M2 to SAR at M1 = 47.6%
Maximum value of SAR (measured) = 1.41 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/27

09_Bluetooth_Ch78_Bottom of laptop_0 mm_ANT Aux

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

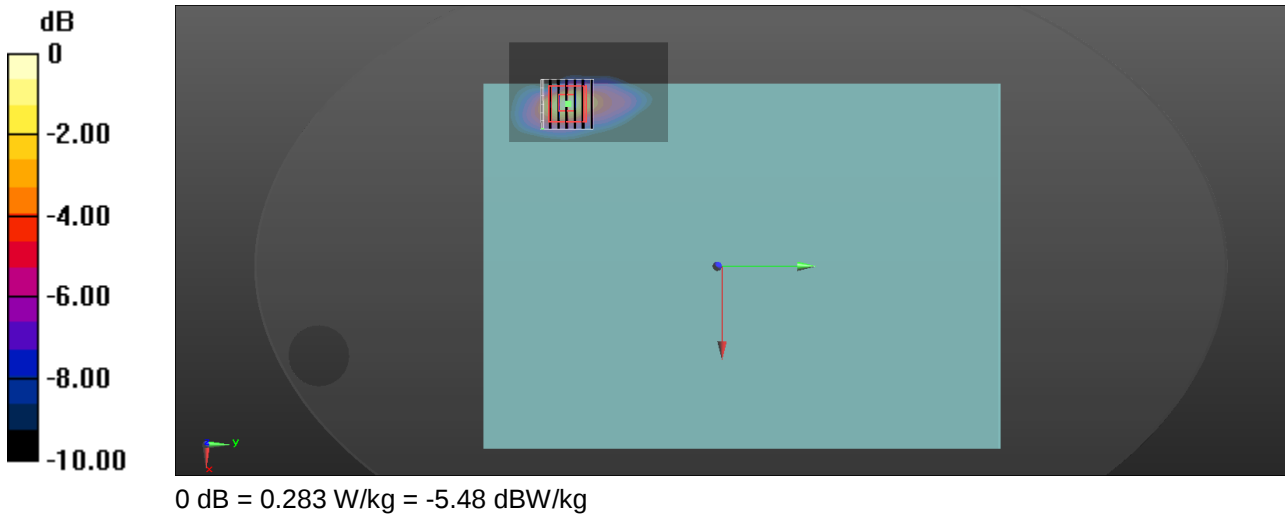
Communication System: UID 0, Bluetooth 3.0 (0); Frequency: 2480 MHz; Duty Cycle: 1:1.287
Medium parameters used: $f = 2480$ MHz; $\sigma = 1.84$ S/m; $\epsilon_r = 39.647$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN7647; ConvF(8.1, 8.1, 8.1) @ 2480 MHz; Calibrated: 2021/4/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1133
- Measurement SW: DASY52, 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) = 0.288 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 11.77 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.059 W/kg
Smallest distance from peaks to all points 3 dB below = 5.7 mm
Ratio of SAR at M2 to SAR at M1 = 36.2%
Maximum value of SAR (measured) = 0.283 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/24

25_WLAN 5 GHz_802.11n HT40_Ch62_Bottom of laptop_0 mm_ANT Main

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

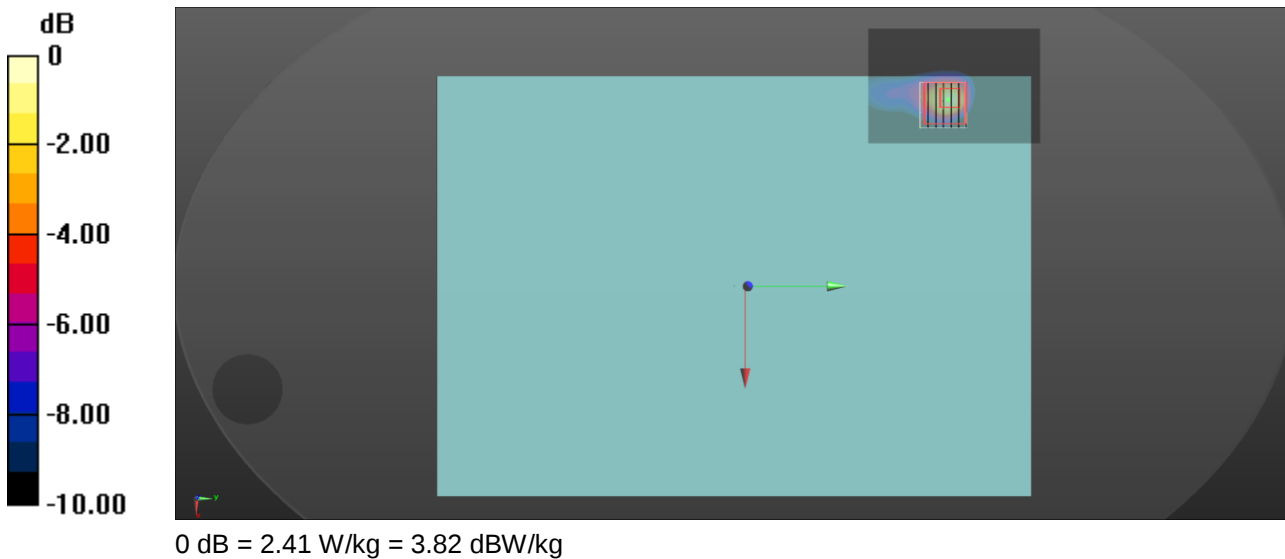
Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5310 MHz;Duty Cycle: 1:1.03
Medium parameters used: $f = 5310$ MHz; $\sigma = 4.748$ S/m; $\epsilon_r = 36.342$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(5.34, 5.34, 5.34) @ 5310 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x91x1): 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: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 14.45 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 4.25 W/kg
SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.241 W/kg
Smallest distance from peaks to all points 3 dB below = 4.9 mm
Ratio of SAR at M2 to SAR at M1 = 61.9%
Maximum value of SAR (measured) = 2.41 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/24

26_WLAN5GHz_802.11n HT40_Ch54_Bottom of laptop_0 mm_ANT Aux

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

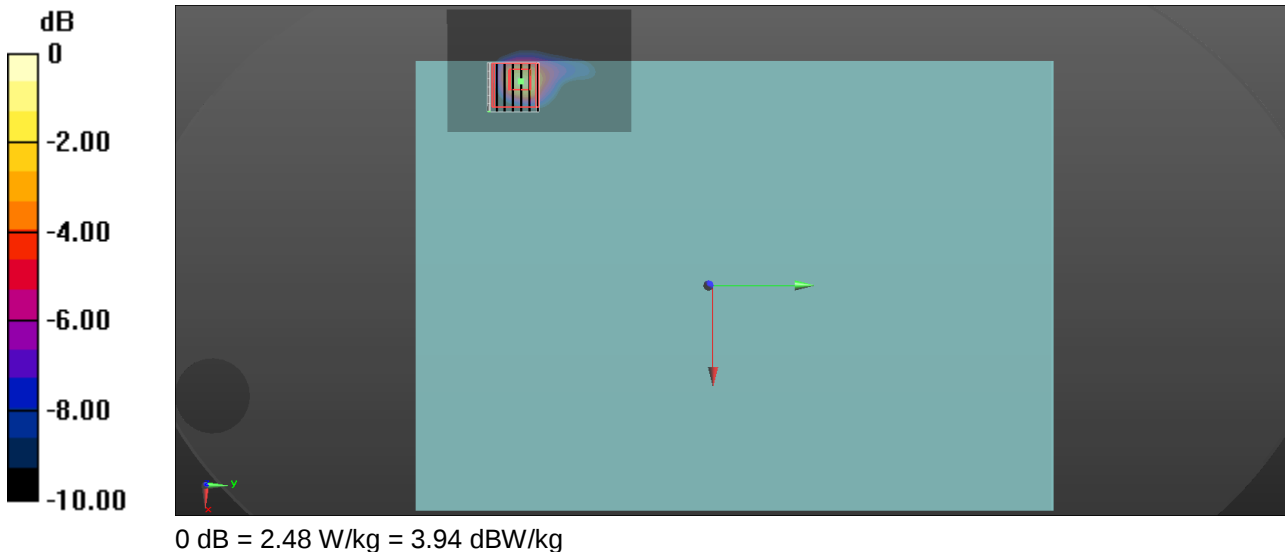
Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5270 MHz; Duty Cycle: 1:1.030
Medium parameters used: $f = 5270$ MHz; $\sigma = 4.714$ S/m; $\epsilon_r = 36.409$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(5.34, 5.34, 5.34) @ 5270 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 2.05 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 15.57 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 4.73 W/kg
SAR(1 g) = 0.960 W/kg; SAR(10 g) = 0.240 W/kg
Smallest distance from peaks to all points 3 dB below = 4.7 mm
Ratio of SAR at M2 to SAR at M1 = 62.5%
Maximum value of SAR (measured) = 2.48 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/24

27_WLAN 5 GHz_802.11ac VHT80_Ch106_Bottom of laptop_0 mm_ANT Main

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

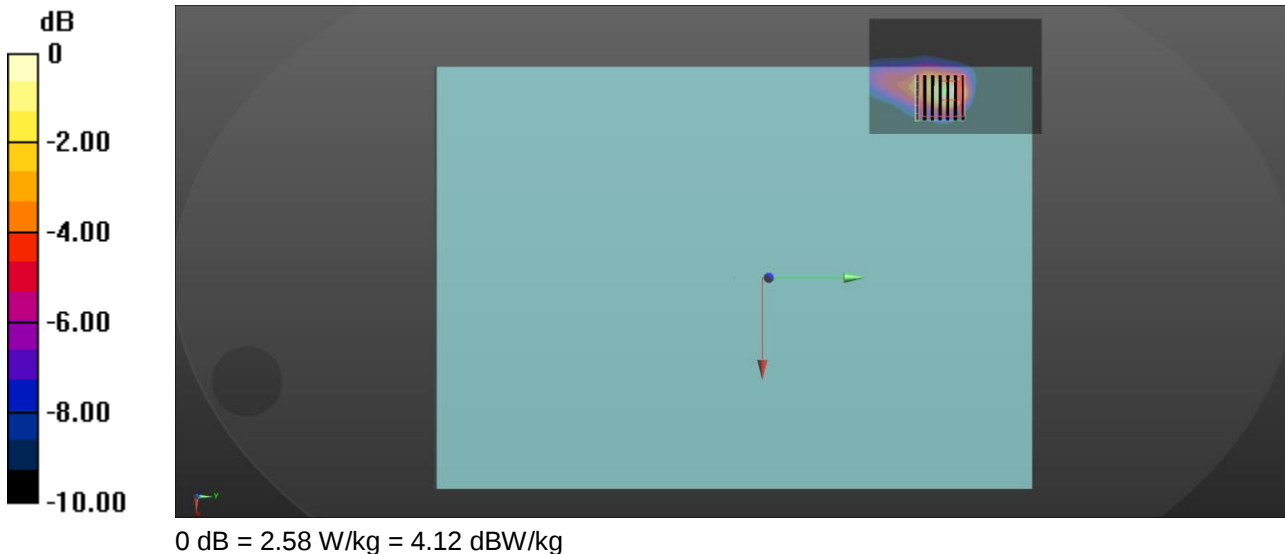
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5530 MHz;Duty Cycle: 1:1.032
Medium parameters used: $f = 5530$ MHz; $\sigma = 4.969$ S/m; $\epsilon_r = 35.918$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(4.75, 4.75, 4.75) @ 5530 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 2.40 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 18.68 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 4.59 W/kg
SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.298 W/kg
Smallest distance from peaks to all points 3 dB below = 5.4 mm
Ratio of SAR at M2 to SAR at M1 = 60.2%
Maximum value of SAR (measured) = 2.58 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/24

24_WLAN 5 GHz_802.11ac VHT80_Ch106_Bottom of laptop_0 mm_ANT Aux

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

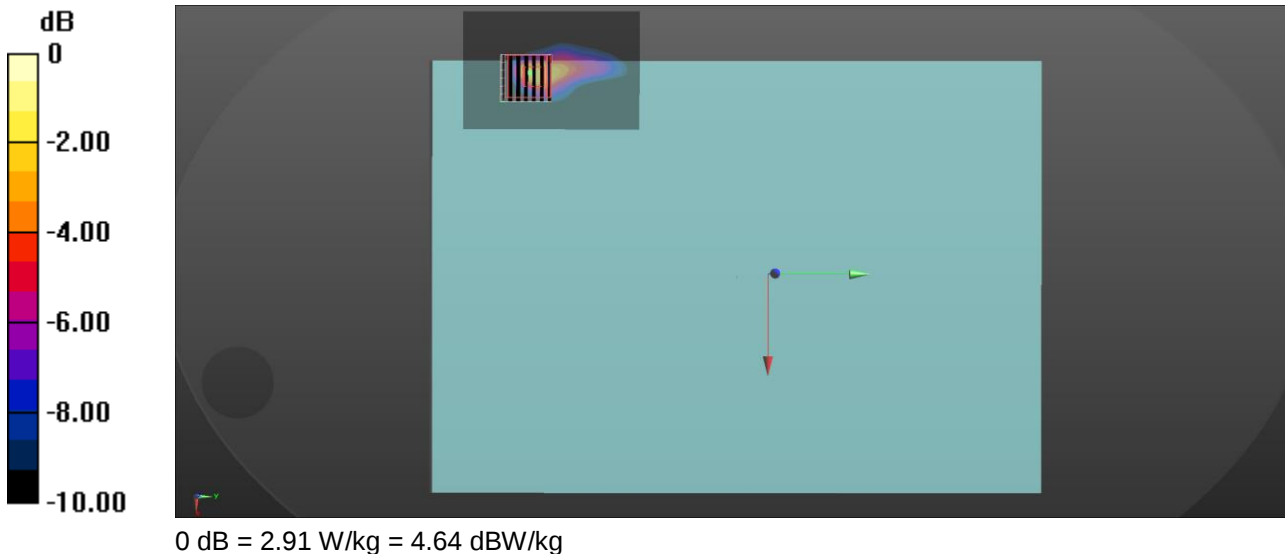
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5530 MHz;Duty Cycle: 1:1.032
Medium parameters used: $f = 5530$ MHz; $\sigma = 4.969$ S/m; $\epsilon_r = 35.918$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(4.75, 4.75, 4.75) @ 5530 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.01 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.08 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 5.29 W/kg
SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.225 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 59.5%
Maximum value of SAR (measured) = 2.91 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/24

28_WLAN 5 GHz_802.11ac VHT80_Ch155_Bottom of laptop_0 mm_ANT Main

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

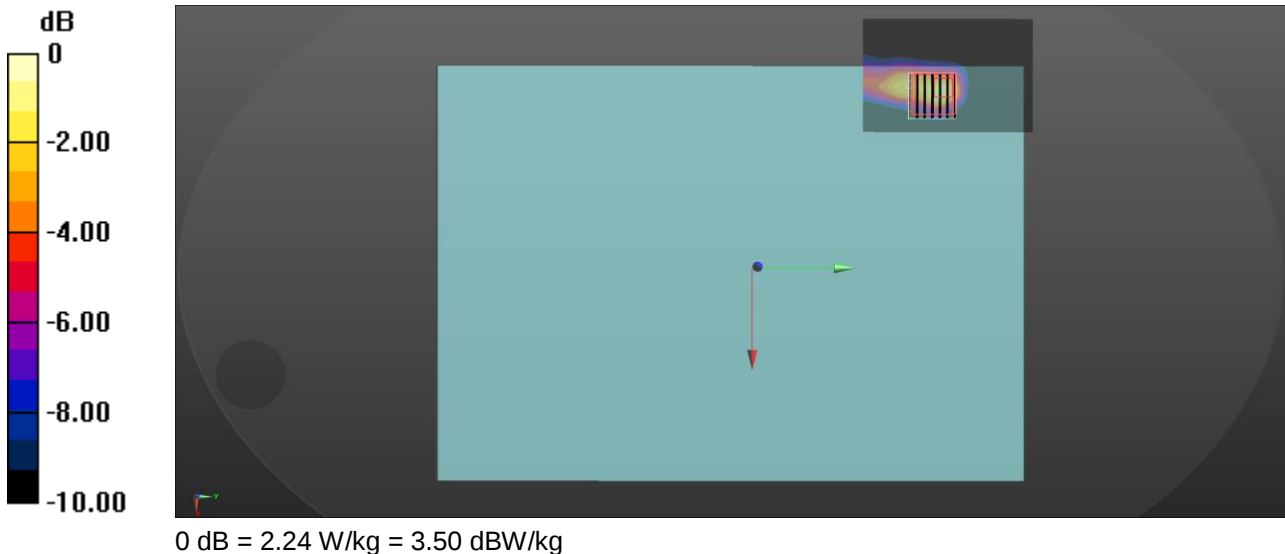
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.032
Medium parameters used: $f = 5775$ MHz; $\sigma = 5.216$ S/m; $\epsilon_r = 35.428$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(5, 5, 5) @ 5775 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 1.89 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 19.22 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 4.18 W/kg
SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.249 W/kg
Smallest distance from peaks to all points 3 dB below = 5.4 mm
Ratio of SAR at M2 to SAR at M1 = 57.7%
Maximum value of SAR (measured) = 2.24 W/kg



Test Laboratory: A Test Lab Techno Corp.
Date: 2021/12/24

29_WLAN 5 GHz_802.11n HT40_Ch159_Bottom of laptop_0 mm_ANT Aux

DUT: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

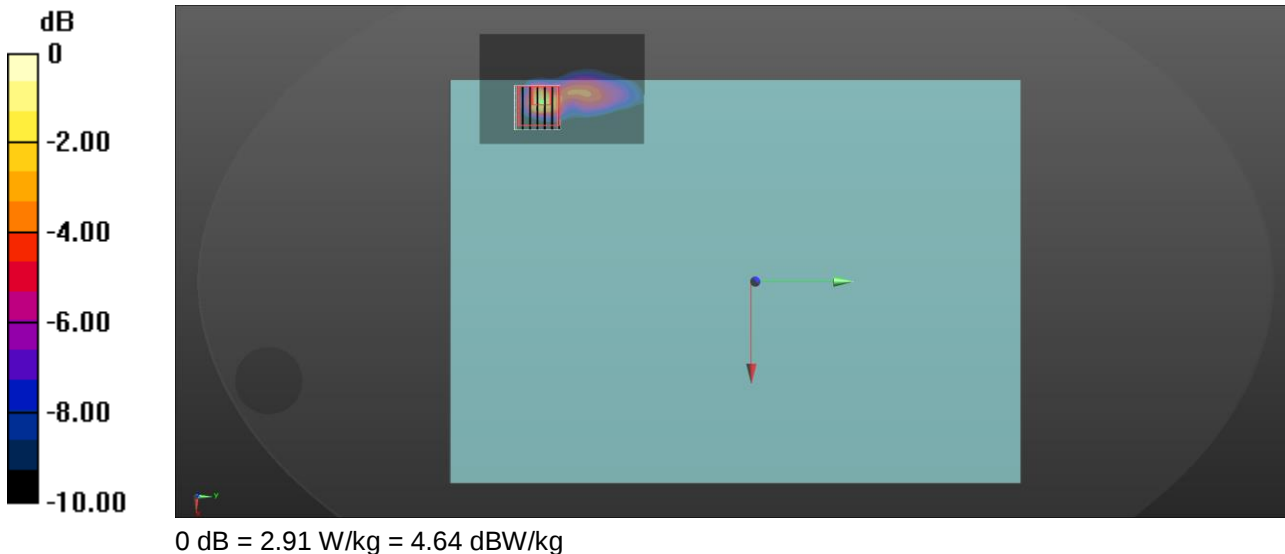
Communication System: UID 0, IEEE 802.11n(5GHz)HT40 (0); Frequency: 5795 MHz;Duty Cycle: 1:1.03
Medium parameters used: $f = 5795$ MHz; $\sigma = 5.239$ S/m; $\epsilon_r = 35.399$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 - SN3847; ConvF(5, 5, 5) @ 5795 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2021/3/22
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.32 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 16.26 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 6.39 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.213 W/kg
Smallest distance from peaks to all points 3 dB below = 4.1 mm
Ratio of SAR at M2 to SAR at M1 = 56.9%
Maximum value of SAR (measured) = 2.91 W/kg



Test Laboratory: A Test Lab Techno Corp.

01_WLAN 6 GHz_802.11ax HE160_Ch79_Bottom of laptop_0 mm_ANT Main

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	6345.0, 79	5.6	6.06	34.9

Hardware Setup

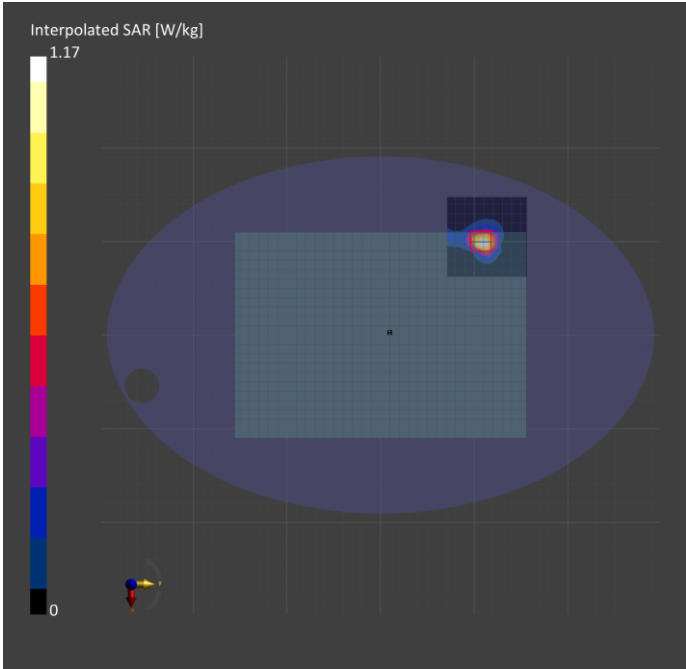
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.232	0.248
psSAR10g [W/Kg]	0.081	0.081
Power Drift [dB]	-0.10	0.10
TSL Correction	Positive only	Positive only
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		6.7



Test Laboratory: A Test Lab Techno Corp.

08_WLAN 6 GHz_802.11ax HE160_Ch15_Bottom of laptop_0 mm_ANT Aux

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	5.61	35.5

Hardware Setup

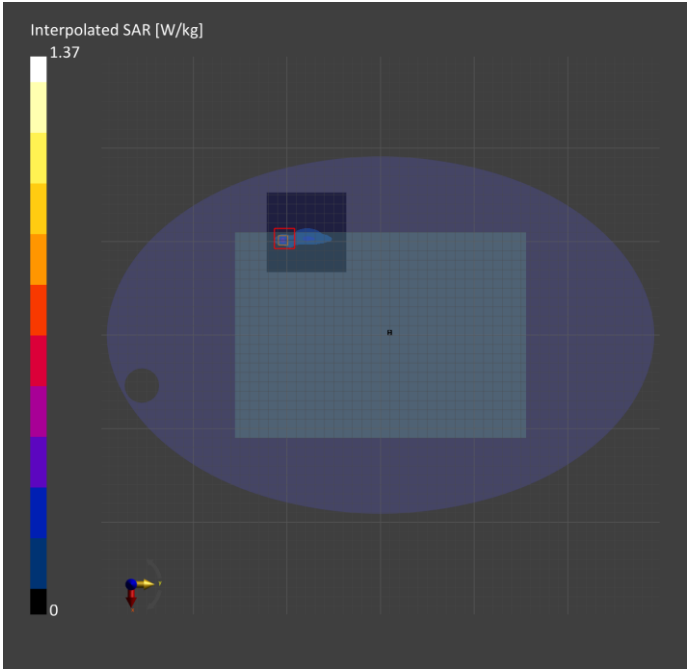
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.212	0.231
psSAR10g [W/Kg]	0.062	0.054
Power Drift [dB]	-0.18	0.12
TSL Correction	Positive only	Positive only
M2/M1 [%]		56.8
Dist 3dB Peak [mm]		4.3



Test Laboratory: A Test Lab Techno Corp.

02_WLAN 6 GHz_802.11ax HE160_Ch111_Bottom of laptop_0 mm_ANT Main

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	6.19	34.7

Hardware Setup

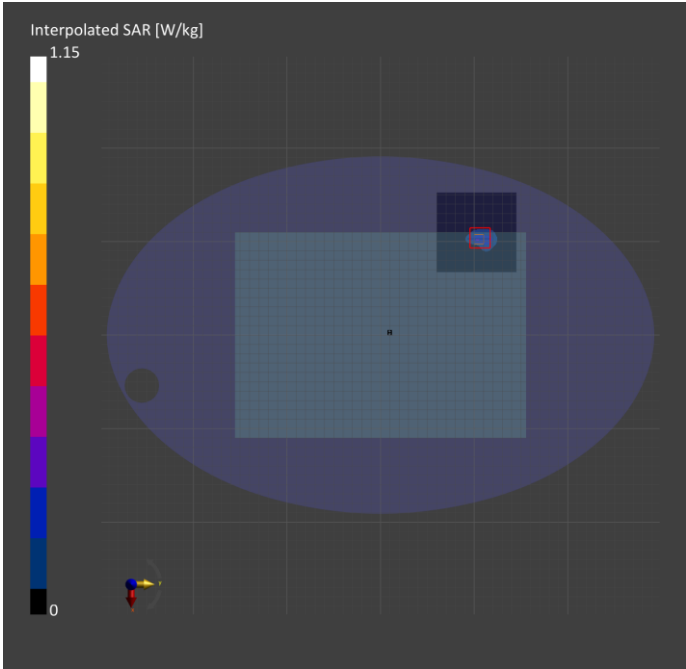
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.204	0.214
psSAR10g [W/Kg]	0.068	0.066
Power Drift [dB]	-0.01	0.13
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.6
Dist 3dB Peak [mm]		4.6



Test Laboratory: A Test Lab Techno Corp.

07_WLAN 6 GHz_802.11ax HE160_Ch111_Bottom of laptop_0 mm_ANT Aux

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	6.19	34.7

Hardware Setup

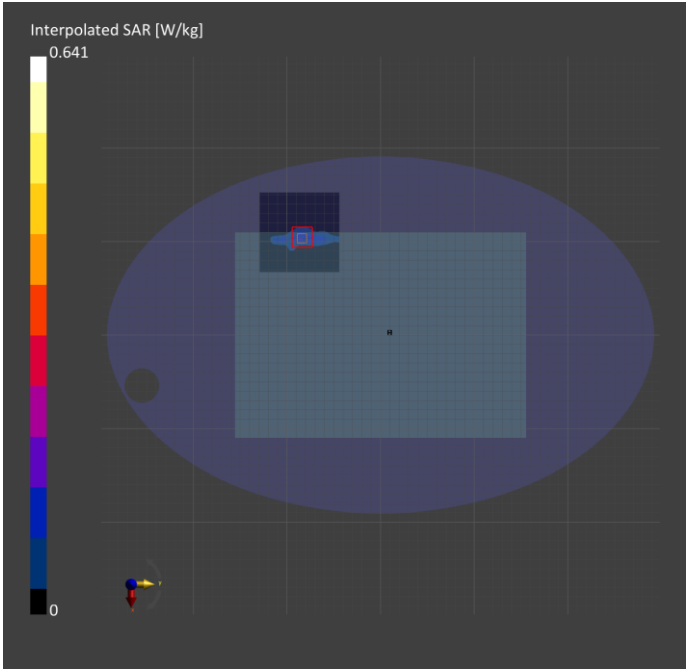
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.123	0.131
psSAR10g [W/Kg]	0.040	0.043
Power Drift [dB]	-0.17	0.14
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		5.4



Test Laboratory: A Test Lab Techno Corp.

03_WLAN 6 GHz_802.11ax HE160_Ch143_Bottom of laptop_0 mm_ANT Main

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	6.40	34.2

Hardware Setup

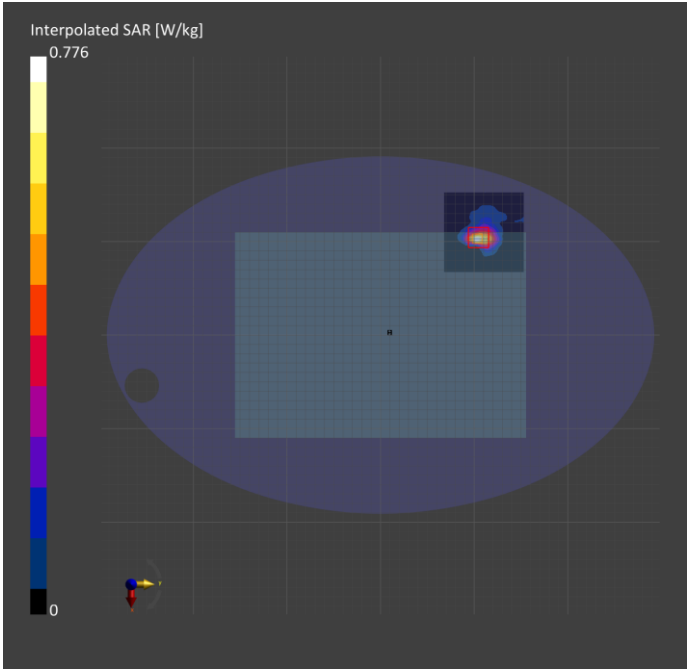
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.131	0.138
psSAR10g [W/Kg]	0.042	0.041
Power Drift [dB]	-0.01	0.15
TSL Correction	Positive only	Positive only
M2/M1 [%]		48.9
Dist 3dB Peak [mm]		4.6



Test Laboratory: A Test Lab Techno Corp.

06_WLAN 6 GHz_802.11ax HE160_Ch143_Bottom of laptop_0 mm_ANT Aux

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	6.40	34.2

Hardware Setup

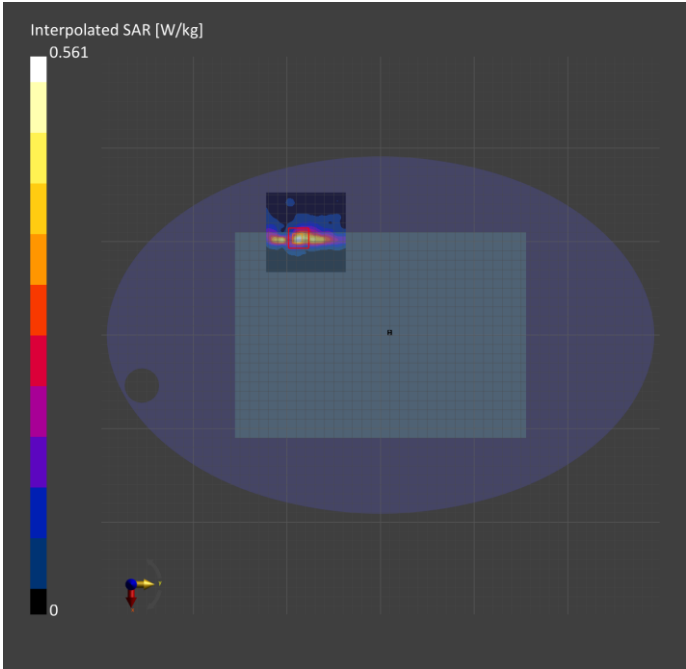
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.097	0.096
psSAR10g [W/Kg]	0.032	0.026
Power Drift [dB]	-0.04	-0.16
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.9
Dist 3dB Peak [mm]		4.9



Test Laboratory: A Test Lab Techno Corp.

04_WLAN 6 GHz_802.11ax HE160_Ch207_Bottom of laptop_0 mm_ANT Main

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	6.75	33.7

Hardware Setup

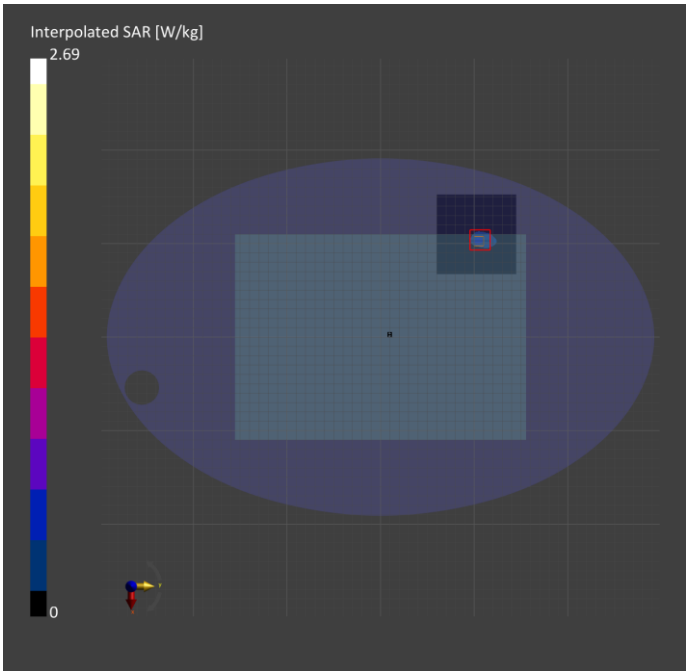
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.419	0.442
psSAR10g [W/Kg]	0.127	0.117
Power Drift [dB]	0.02	0.15
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.0
Dist 3dB Peak [mm]		4.9



Test Laboratory: A Test Lab Techno Corp.

05_WLAN 6 GHz_802.11ax HE160_Ch207_Bottom of laptop_0 mm_ANT Aux

Device under Test Properties

Model: UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	5.6	6.75	33.7

Hardware Setup

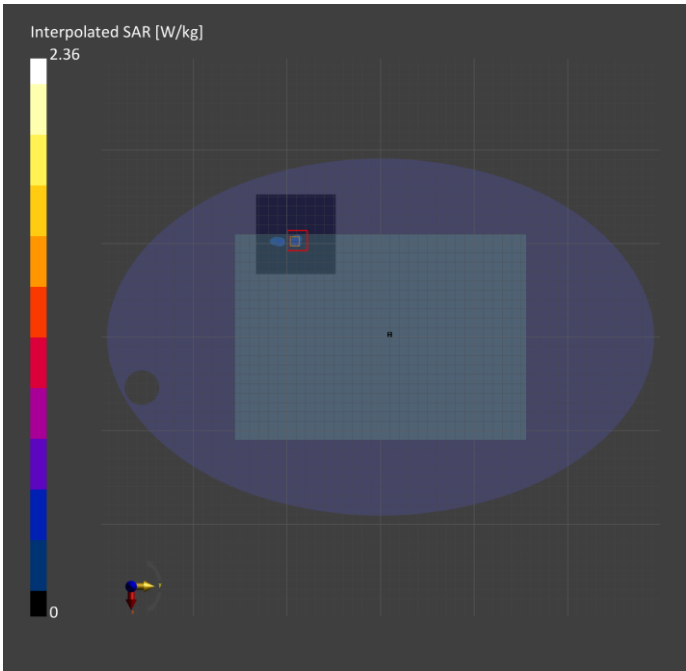
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G_211221 , 2021-Dec-21	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-12-21	2021-12-21
psSAR1g [W/Kg]	0.301	0.348
psSAR10g [W/Kg]	0.075	0.079
Power Drift [dB]	-0.11	-0.10
TSL Correction	Positive only	Positive only
M2/M1 [%]		45.8
Dist 3dB Peak [mm]		4.9



Test Laboratory: A Test Lab Techno Corp.

10_WLAN 6 GHz_802.11ax HE160_Ch79_Bottom of laptop_2 mm_ANT Main

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	6345.0, 79	1.0

Hardware Setup

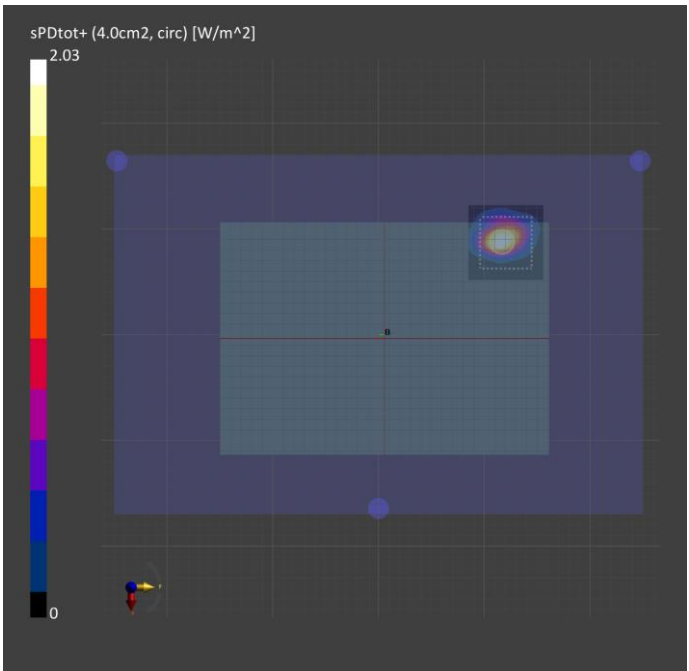
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.57
psPDtot+ [W/m²]	2.03
psPDmod+ [W/m²]	3.29
E _{max} [V/m]	50.4
H _{max} [A/m]	0.157
Power Drift [dB]	-0.07



Test Laboratory: A Test Lab Techno Corp.

12_WLAN 6 GHz_802.11ax HE160_Ch111_Bottom of laptop_2 mm_ANT Main

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

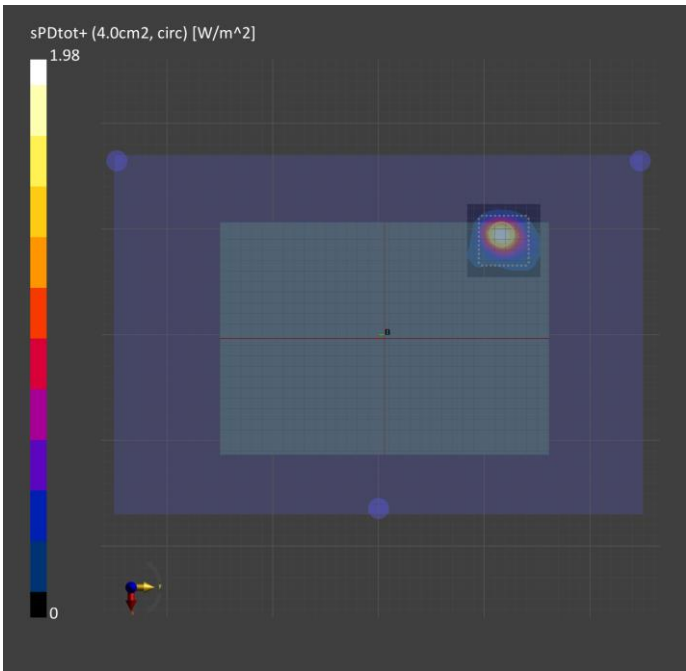
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.50
psPDtot+ [W/m²]	1.98
psPDmod+ [W/m²]	3.07
E _{max} [V/m]	46.4
H _{max} [A/m]	0.135
Power Drift [dB]	-0.14



Test Laboratory: A Test Lab Techno Corp.

14_WLAN 6 GHz_802.11ax HE160_Ch143_Bottom of laptop_2 mm_ANT Main

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

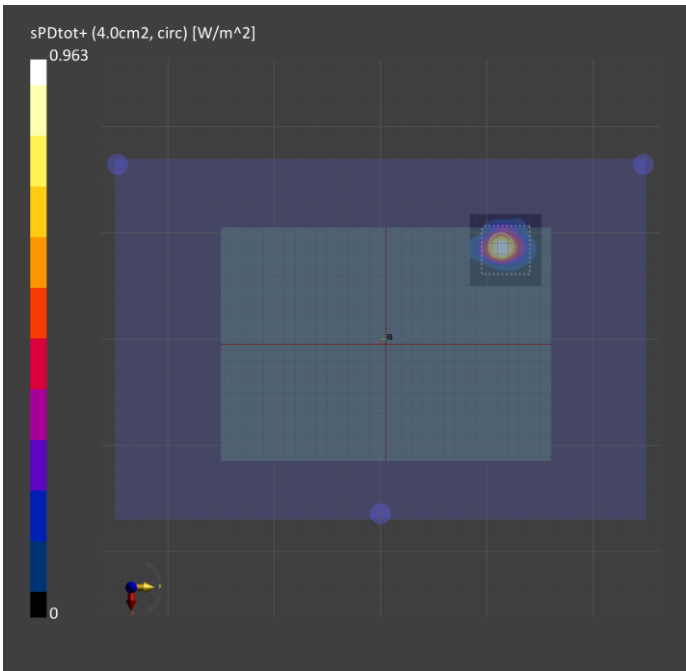
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.636
psPDtot+ [W/m²]	0.963
psPDmod+ [W/m²]	1.77
E _{max} [V/m]	36.0
H _{max} [A/m]	0.111
Power Drift [dB]	0.03



Test Laboratory: A Test Lab Techno Corp.

16_WLAN 6 GHz_802.11ax HE160_Ch207_Bottom of laptop_2 mm_ANT Main

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

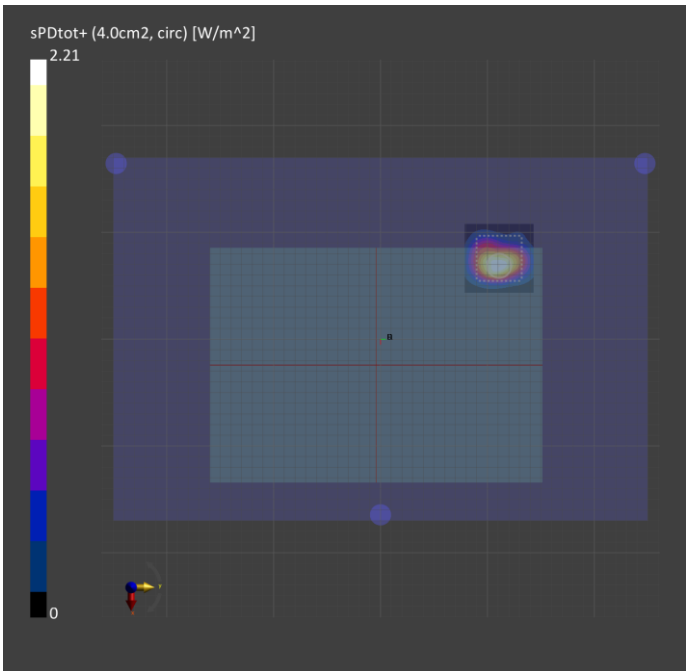
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.72
psPDtot+ [W/m²]	2.21
psPDmod+ [W/m²]	3.19
E _{max} [V/m]	49.9
H _{max} [A/m]	0.123
Power Drift [dB]	-0.11



Test Laboratory: A Test Lab Techno Corp.

19_WLAN 6 GHz_802.11ax HE80_Ch199_Bottom of laptop_2 mm_ANT Main

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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, 10731-AAC	6945.0, 199	1.0

Hardware Setup

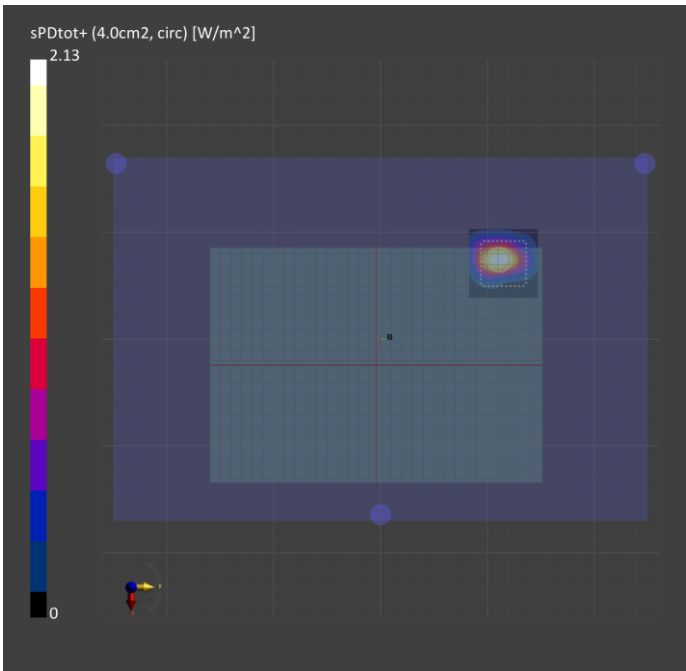
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	2.00
psPDtot+ [W/m²]	2.13
psPDmod+ [W/m²]	2.52
E _{max} [V/m]	40.2
H _{max} [A/m]	0.107
Power Drift [dB]	-0.06



Test Laboratory: A Test Lab Techno Corp.

11_WLAN 6 GHz_802.11ax HE160_Ch15_Bottom of laptop_2 mm_ANT Aux

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

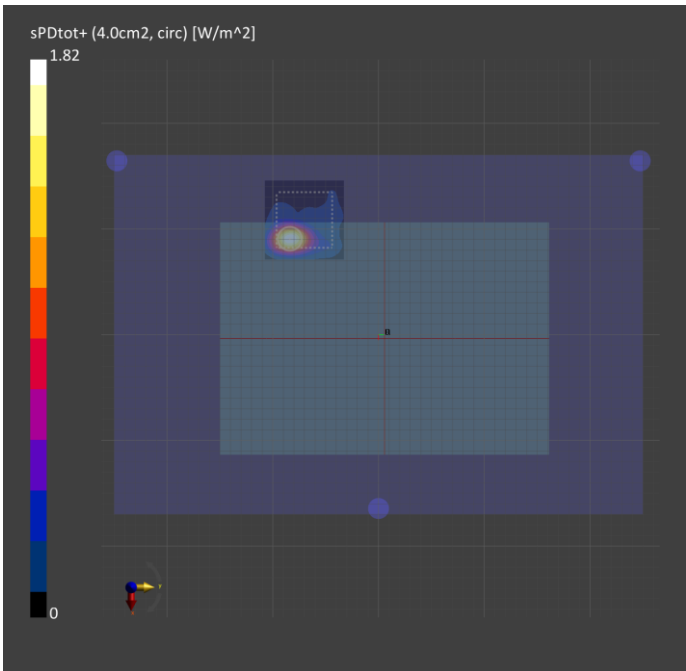
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.60
psPDtot+ [W/m²]	1.82
psPDmod+ [W/m²]	2.66
E _{max} [V/m]	39.7
H _{max} [A/m]	0.141
Power Drift [dB]	-0.14



Test Laboratory: A Test Lab Techno Corp.

18_WLAN 6 GHz_802.11ax HE160_Ch47_Bottom of laptop_2 mm_ANT Aux

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

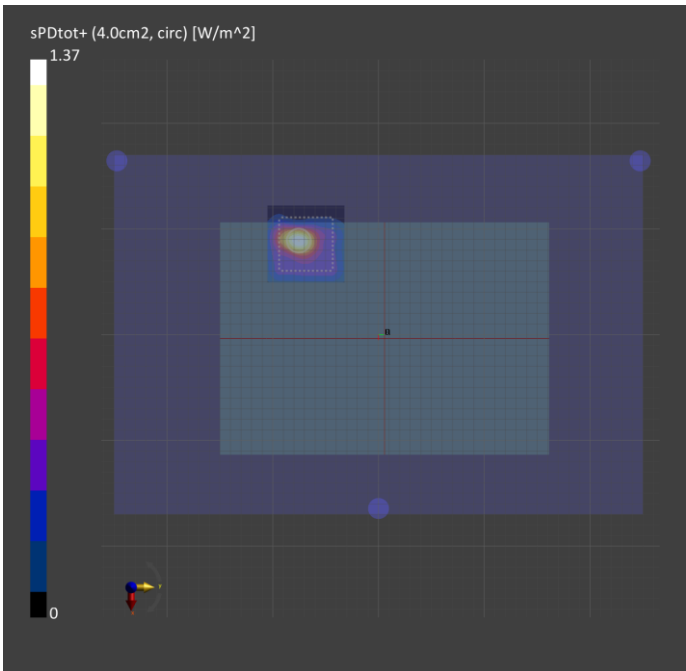
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	1.23
psPDtot+ [W/m²]	1.37
psPDmod+ [W/m²]	2.11
E _{max} [V/m]	34.0
H _{max} [A/m]	0.141
Power Drift [dB]	-0.11



Test Laboratory: A Test Lab Techno Corp.

13_WLAN 6 GHz_802.11ax HE160_Ch111_Bottom of laptop_2 mm_ANT Aux

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

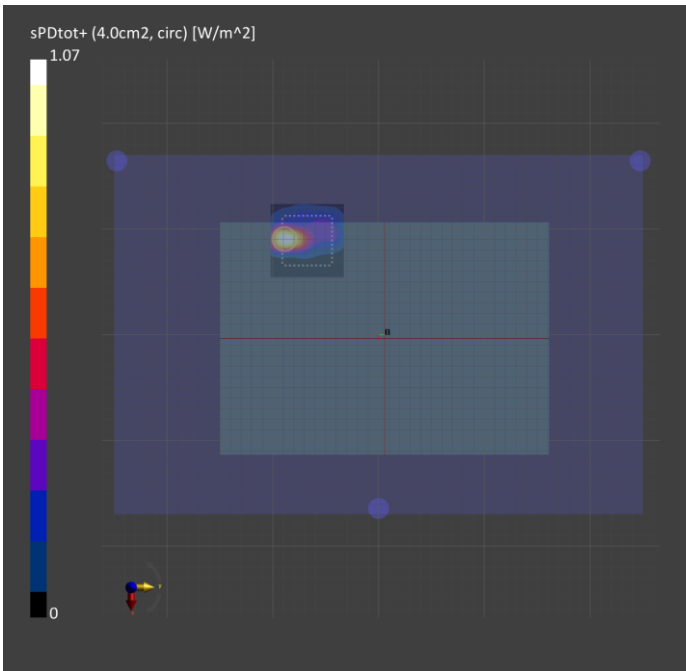
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.935
psPDtot+ [W/m²]	1.07
psPDmod+ [W/m²]	1.48
E _{max} [V/m]	30.9
H _{max} [A/m]	0.116
Power Drift [dB]	-0.05



Test Laboratory: A Test Lab Techno Corp.

15_WLAN 6 GHz_802.11ax HE160_Ch143_Bottom of laptop_2 mm_ANT Aux

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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

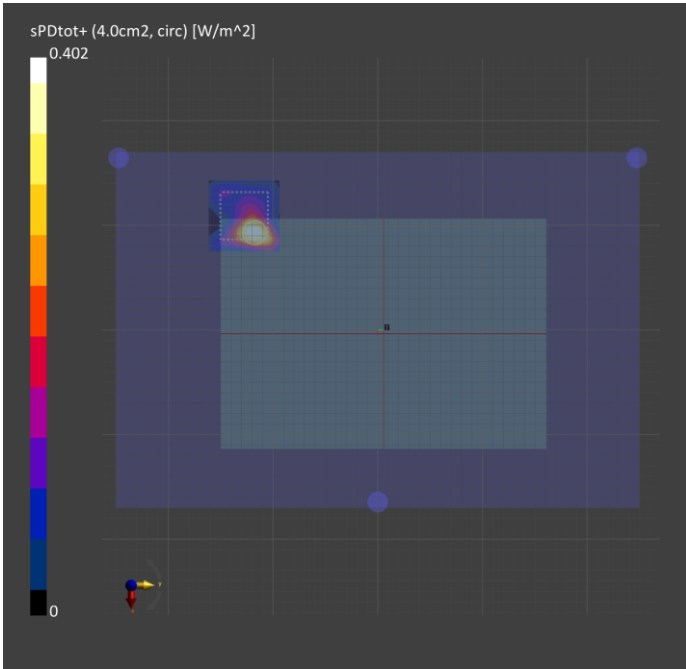
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.353
psPDtot+ [W/m²]	0.402
psPDmod+ [W/m²]	0.621
E _{max} [V/m]	19.0
H _{max} [A/m]	0.068
Power Drift [dB]	-0.13



Test Laboratory: A Test Lab Techno Corp.

17_WLAN 6 GHz_802.11ax HE160_Ch207_Bottom of laptop_2 mm_ANT Aux

Device under Test Properties

Model:UX5401Z, BX5401Z, RX5401Z, UX5401ZA, UX5401ZAS

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	2021-12-22
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.855
psPDtot+ [W/m²]	1.19
psPDmod+ [W/m²]	1.47
E _{max} [V/m]	35.6
H _{max} [A/m]	0.110
Power Drift [dB]	0.16

