Appendix C - SAR Highest Measurement Plots

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/16

09_WLAN2.4GHz_802.11b_CH 6_Bottom of laptop_0mm_Ant Main

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

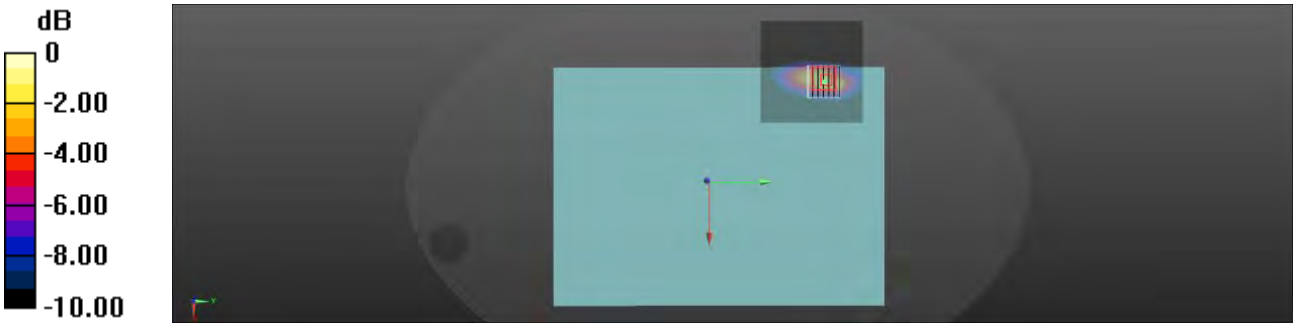
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.005
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.823 S/m; ε_r = 38.274; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.655 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.84 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.194 W/kg
Smallest distance from peaks to all points 3 dB below = 6.3 mm
Ratio of SAR at M2 to SAR at M1 = 42.8%
Maximum value of SAR (measured) = 0.804 W/kg



0 dB = 0.804 W/kg = -0.95 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/16
10_WLAN2.4GHz_802.11b_CH 1_Bottom of laptop_0mm_Ant Aux

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

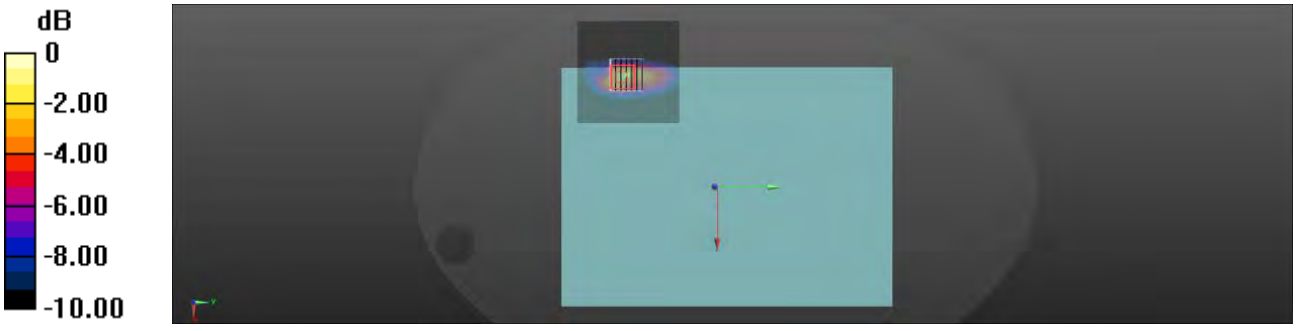
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2412 MHz;Duty Cycle: 1:1.004
Medium parameters used: f = 2412 MHz; σ = 1.793 S/m; ε_r = 38.358; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.488 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.84 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.888 W/kg
SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.157 W/kg
Smallest distance from peaks to all points 3 dB below = 7 mm
Ratio of SAR at M2 to SAR at M1 = 41.8%
Maximum value of SAR (measured) = 0.626 W/kg



0 dB = 0.626 W/kg = -2.03 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/16
11_Bluetooth_CH 39_Bottom of laptop_0mm_Ant Aux

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

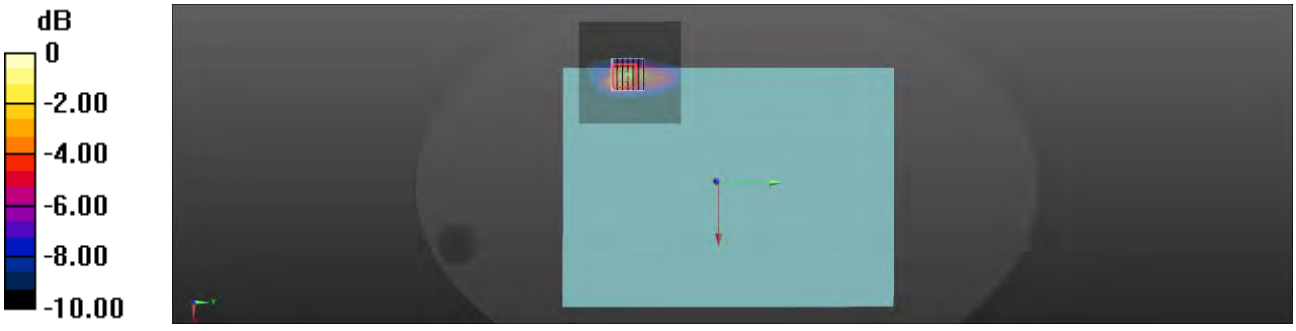
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.828 S/m; ε_r = 38.262; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 2441 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 (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.186 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.23 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.347 W/kg
SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.059 W/kg
Smallest distance from peaks to all points 3 dB below = 6 mm
Ratio of SAR at M2 to SAR at M1 = 41.6%
Maximum value of SAR (measured) = 0.239 W/kg



0 dB = 0.239 W/kg = -6.22 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/15

01_WLAN5GHz_802.11ac 160_CH 50_Bottom of laptop_0mm_Ant Main

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

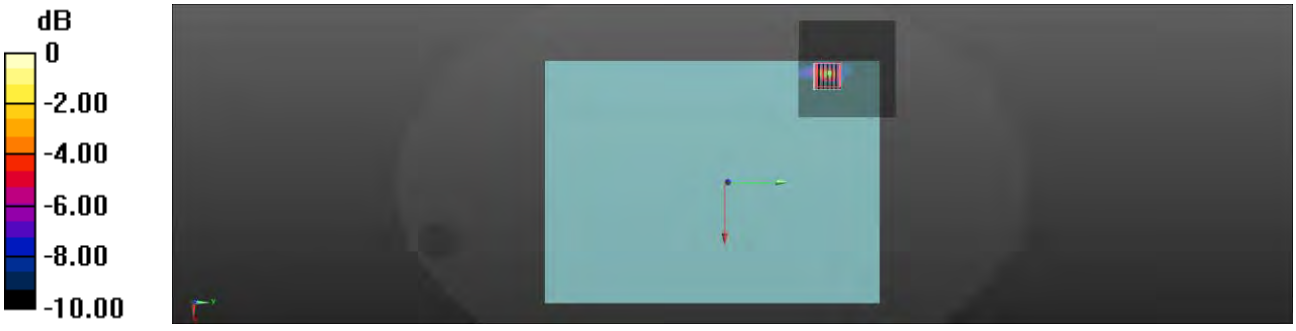
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.014
Medium parameters used: f = 5250 MHz; σ = 4.709 S/m; ε_r = 36.485; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 5250 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.95 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 8.235 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 4.51 W/kg
SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.218 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 62.2%
Maximum value of SAR (measured) = 2.50 W/kg



0 dB = 2.50 W/kg = 3.98 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/15

08_WLAN5GHz_802.11ac VHT160_CH 50_Bottom of laptop_0mm_Ant Aux

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

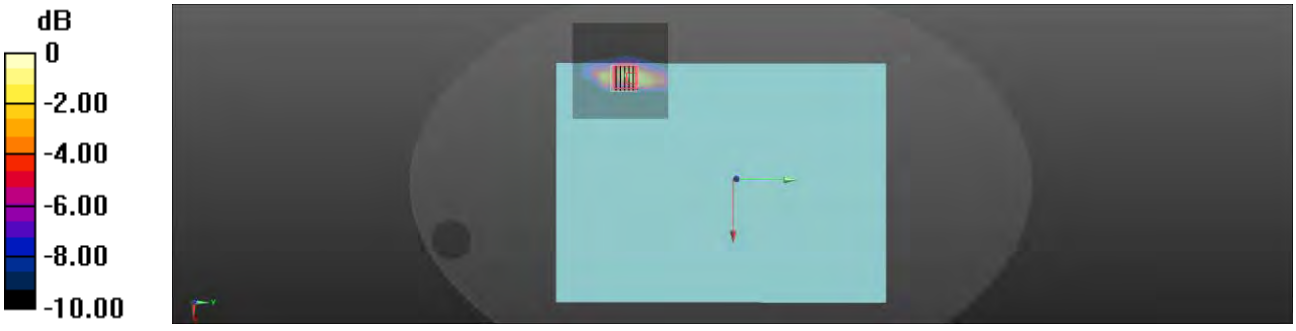
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.017
Medium parameters used: f = 5250 MHz; σ = 4.709 S/m; ε_r = 36.485; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 5250 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.698 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 8.870 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.66 W/kg
SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.097 W/kg
Smallest distance from peaks to all points 3 dB below = 4.5 mm
Ratio of SAR at M2 to SAR at M1 = 58.2%
Maximum value of SAR (measured) = 0.830 W/kg



0 dB = 0.830 W/kg = -0.81 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/15

02_WLAN5GHz_802.11ac 160_CH 114_Bottom of laptop_0mm_Ant Main

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

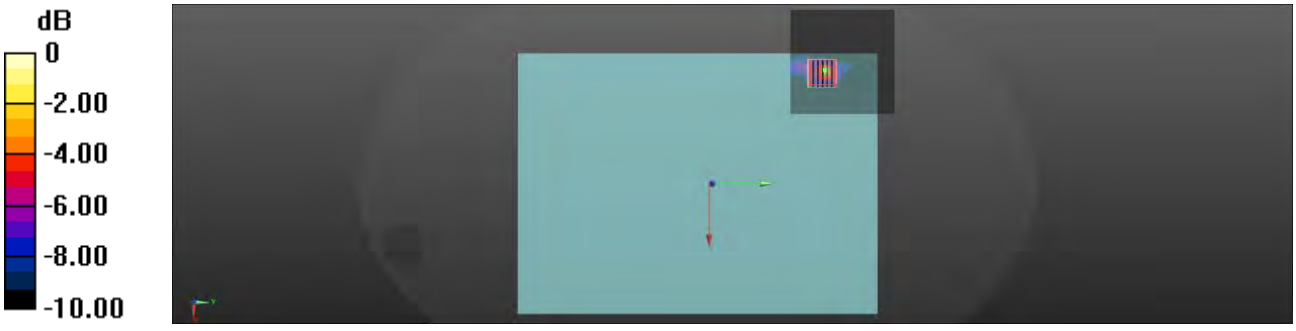
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5570 MHz;Duty Cycle: 1:1.014
Medium parameters used: f = 5570 MHz; σ = 5.036 S/m; ε_r = 35.854; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 5570 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.80 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.180 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 5.48 W/kg
SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.231 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 59.2%
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.92 W/kg = 4.65 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/15
07_WLAN5GHz_802.11ac 160_CH 114_Bottom of laptop_0mm_Ant Aux

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

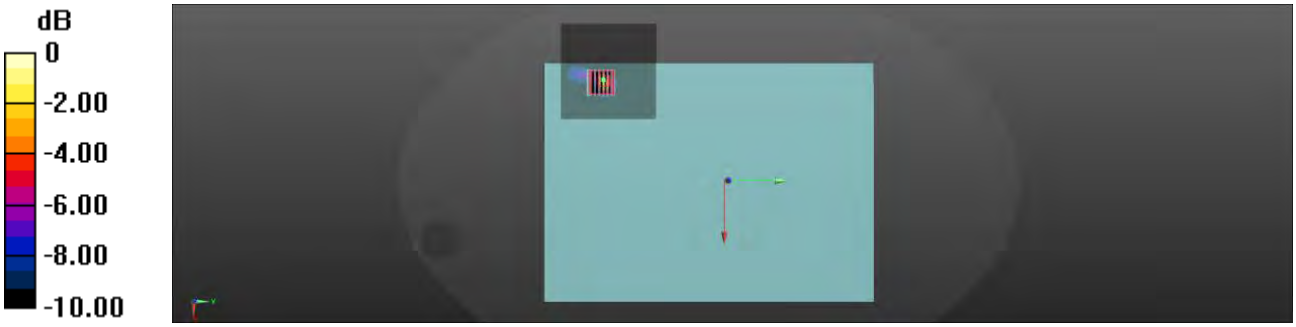
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5570 MHz;Duty Cycle: 1:1.017
Medium parameters used: f = 5570 MHz; σ = 5.036 S/m; ε_r = 35.854; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 5570 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.34 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 8.939 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 6.17 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.256 W/kg
Smallest distance from peaks to all points 3 dB below = 5.1 mm
Ratio of SAR at M2 to SAR at M1 = 59.6%
Maximum value of SAR (measured) = 3.05 W/kg



0 dB = 3.05 W/kg = 4.84 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/15

04_WLAN5GHz_802.11ac 80_CH 155_Bottom of laptop_0mm_Ant Main

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

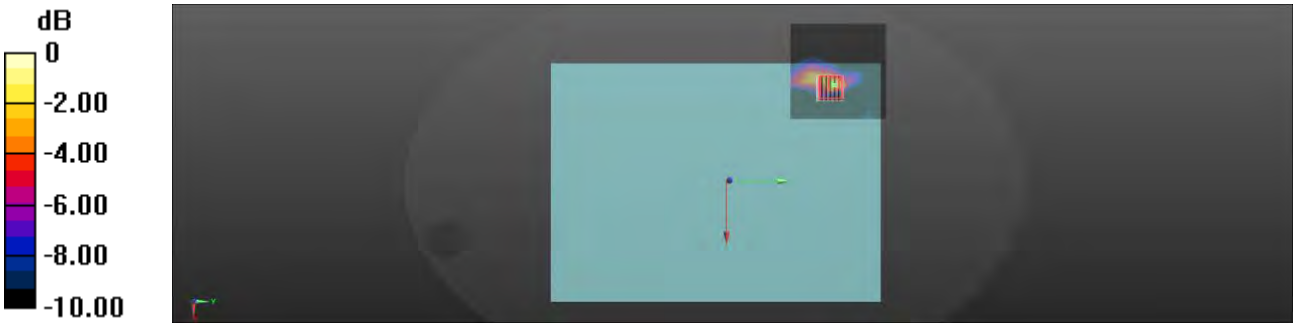
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.012
Medium parameters used: f = 5775 MHz; σ = 5.236 S/m; ε_r = 35.471; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.45 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 10.14 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.00 W/kg
SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.137 W/kg
Smallest distance from peaks to all points 3 dB below = 5.4 mm
Ratio of SAR at M2 to SAR at M1 = 56.6%
Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2021/11/15

05_WLAN5GHz_802.11ac 80_CH 155_Bottom of laptop_0mm_Ant Aux

DUT: BX5400Z, RX5400Z, P5400Z, P5400CZ

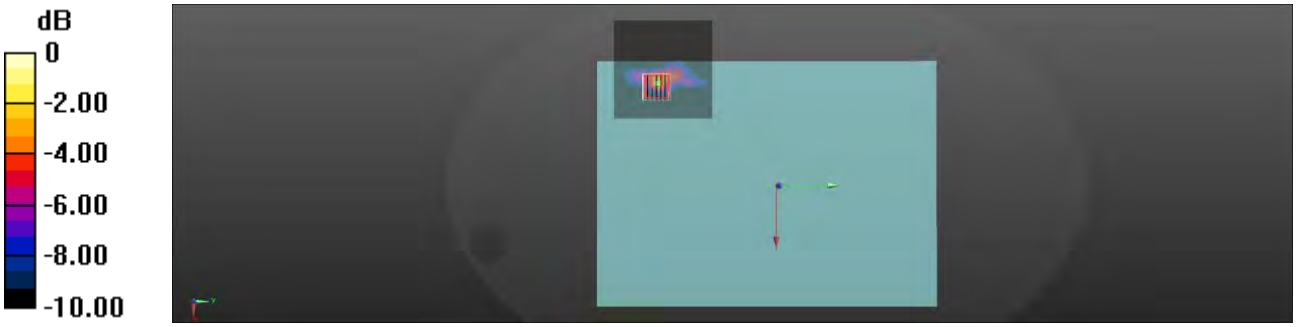
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.012
Medium parameters used: f = 5775 MHz; σ = 5.236 S/m; ε_r = 35.471; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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) @ 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.37 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.715 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 3.81 W/kg
SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.154 W/kg
Smallest distance from peaks to all points 3 dB below = 4.7 mm
Ratio of SAR at M2 to SAR at M1 = 58.5%
Maximum value of SAR (measured) = 1.85 W/kg



0 dB = 1.85 W/kg = 2.67 dBW/kg

18_WLAN5GHz_802.11ax HE160_CH 15_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6025.0, 15	5.6	5.61	35.0

Hardware Setup

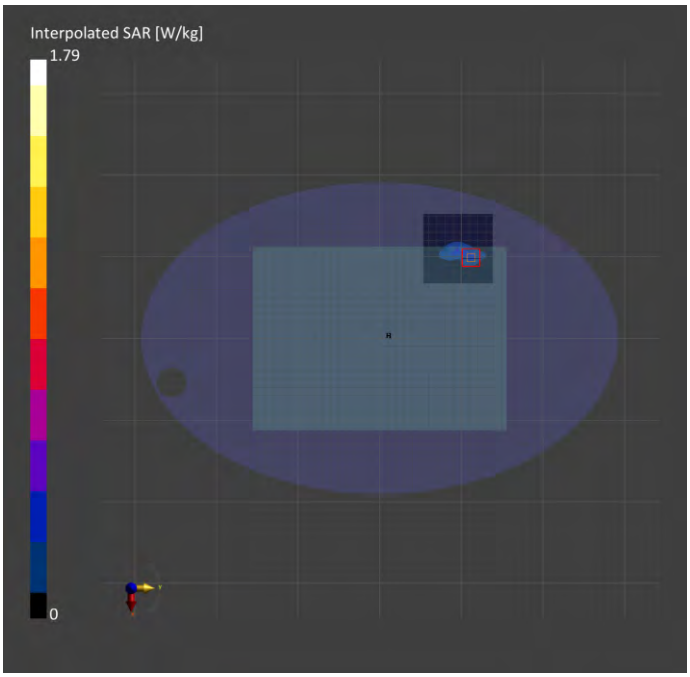
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.284	0.349
psSAR10g [W/Kg]	0.103	0.110
Power Drift [dB]	-0.13	0.09
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		4.3



16_WLAN5GHz_802.11ax HE160_CH 79_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6345.0, 79	5.6	6.06	34.4

Hardware Setup

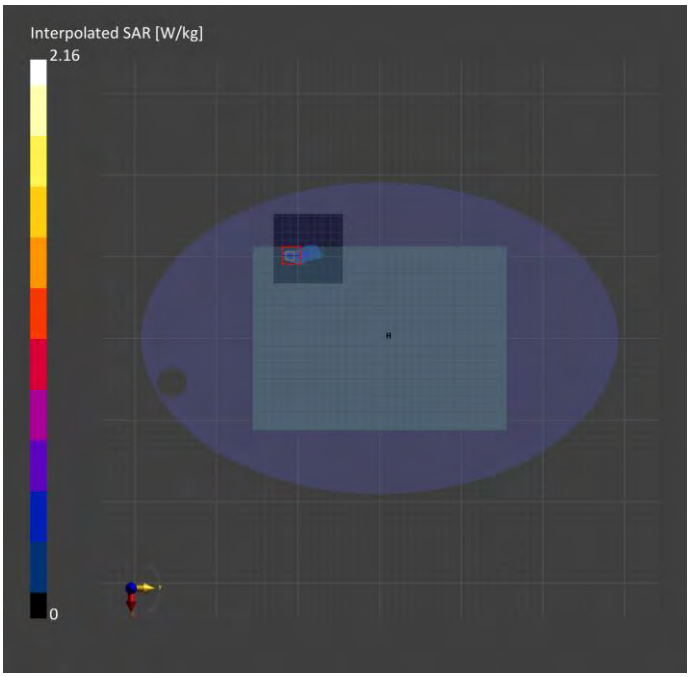
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.329	0.387
psSAR10g [W/Kg]	0.112	0.104
Power Drift [dB]	-0.06	0.00
TSL Correction	Positive only	Positive only
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		4.8



19_WLAN5GHz_802.11ax HE160_CH 111_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6505.0, 111	5.6	6.19	34.2

Hardware Setup

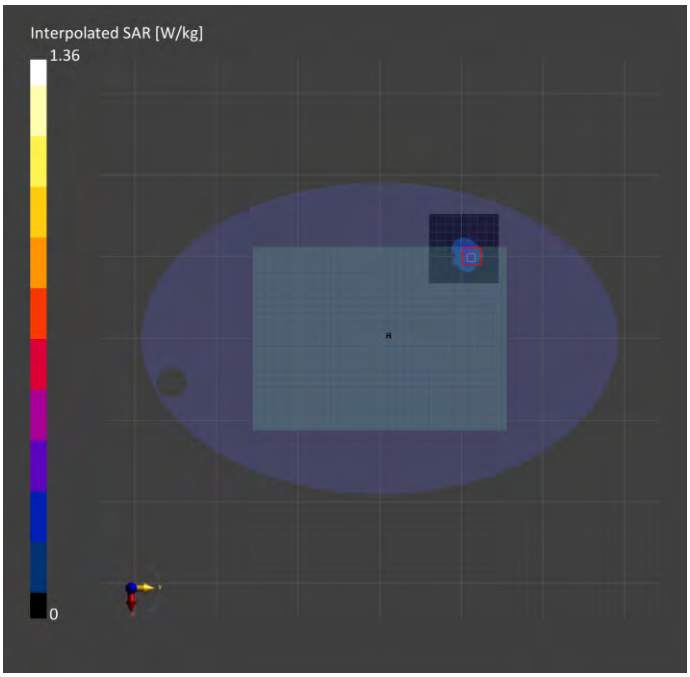
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.253	0.275
psSAR10g [W/Kg]	0.103	0.102
Power Drift [dB]	-0.16	0.10
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.4
Dist 3dB Peak [mm]		6.4



15_WLAN5GHz_802.11ax HE160_CH 111_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6505.0, 111	5.6	6.19	34.2

Hardware Setup

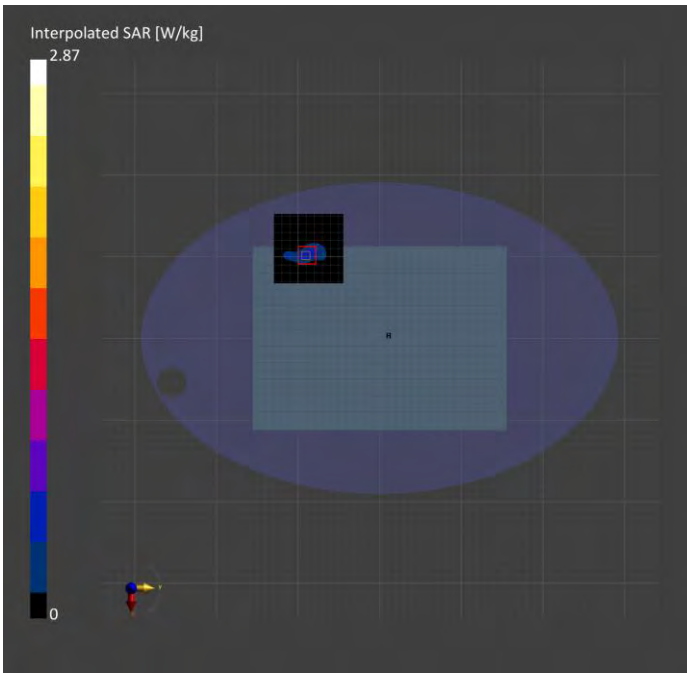
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.504	0.441
psSAR10g [W/Kg]	0.174	0.113
Power Drift [dB]	0.05	-0.17
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		4.8



12_WLAN5GHz_802.11ax HE160_CH 175_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6825.0, 175	5.6	6.62	33.7

Hardware Setup

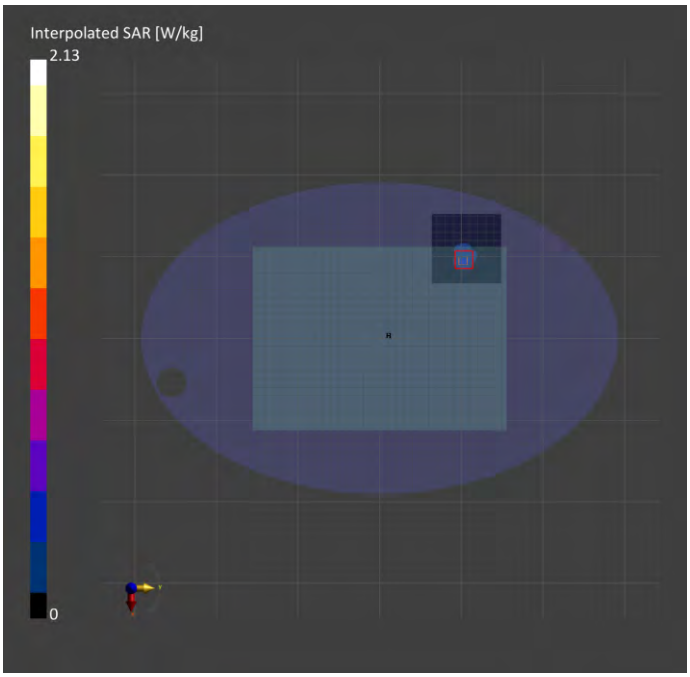
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.352	0.387
psSAR10g [W/Kg]	0.125	0.127
Power Drift [dB]	0.01	-0.14
TSL Correction	Positive only	Positive only
M2/M1 [%]		46.4
Dist 3dB Peak [mm]		7.3



14_WLAN5GHz_802.11ax HE160_CH 175_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6825.0, 175	5.6	6.62	33.7

Hardware Setup

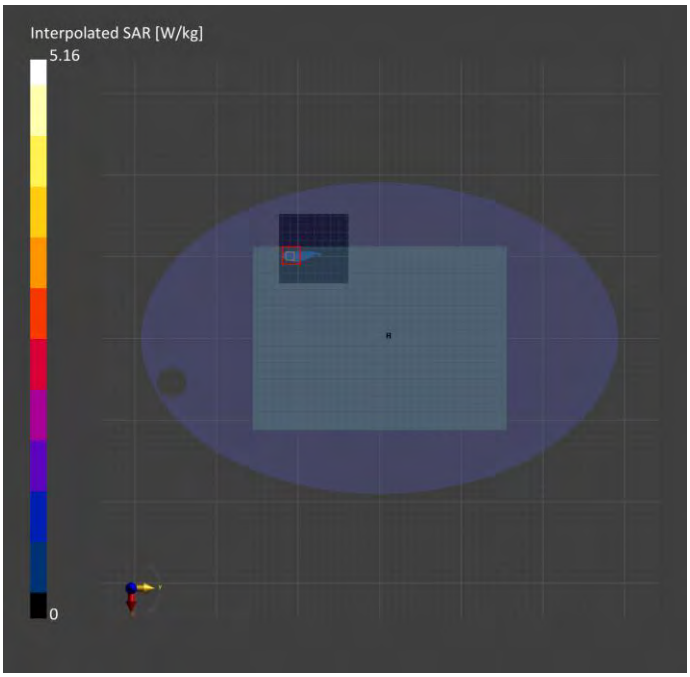
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.670	0.813
psSAR10g [W/Kg]	0.213	0.210
Power Drift [dB]	-0.02	-0.14
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		4.8



13_WLAN5GHz_802.11ax HE160_CH 207_Bottom of laptop_0mm_Ant Main

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6985.0, 207	5.6	6.75	33.2

Hardware Setup

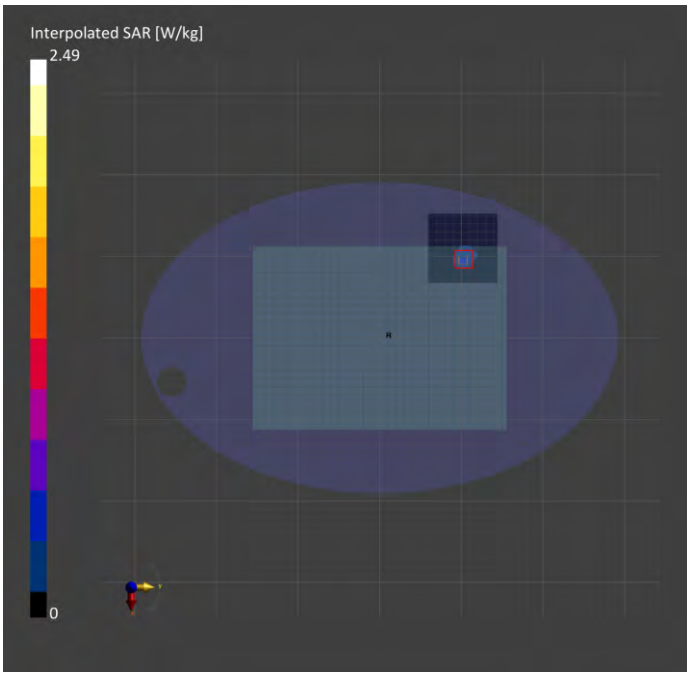
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.410	0.441
psSAR10g [W/Kg]	0.142	0.143
Power Drift [dB]	0.05	0.09
TSL Correction	Positive only	Positive only
M2/M1 [%]		45.6
Dist 3dB Peak [mm]		6.8



17_WLAN5GHz_802.11ax HE160_CH 207_Bottom of laptop_0mm_Ant Aux

Device under Test Properties

Model: UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ

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, 10755-AAC	6985.0, 207	5.6	6.75	33.2

Hardware Setup

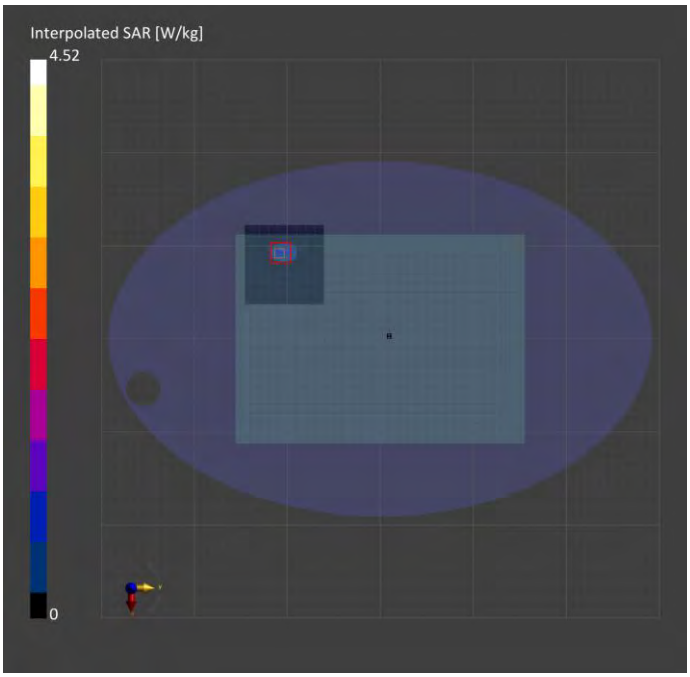
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2021-03-26	DAE4 Sn541, 2021-03-22

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	2021-11-17	2021-11-17
psSAR1g [W/Kg]	0.729	0.747
psSAR10g [W/Kg]	0.253	0.210
Power Drift [dB]	-0.19	-0.12
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.1
Dist 3dB Peak [mm]		5.5



20_WLAN6GHz_802.11ax HE160_CH 15_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

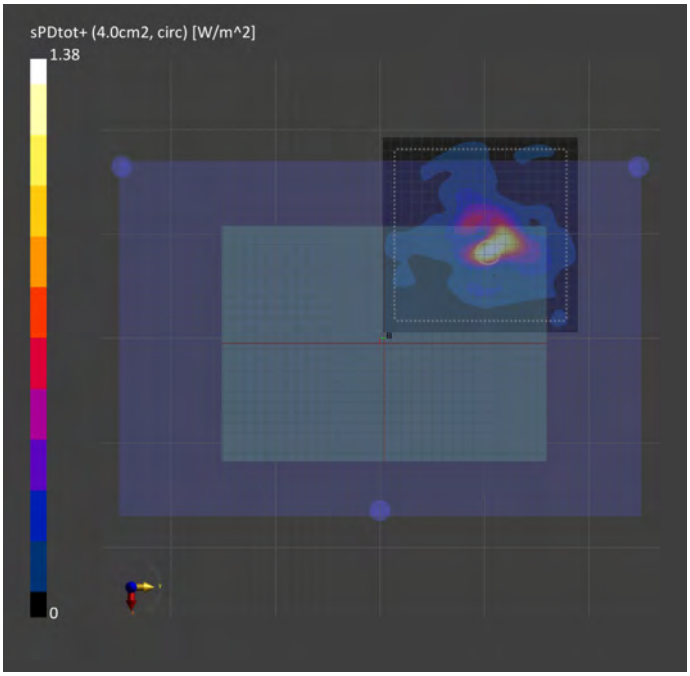
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	0.881
psPDtot+ [W/m^2]	1.38
psPDmod+ [W/m^2]	2.84
E_{max} [V/m]	61.0
H_{max} [A/m]	0.120
Power Drift [dB]	0.18



28_WLAN6GHz_802.11ax HE160_CH 79_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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	6345.0, 79	1.0

Hardware Setup

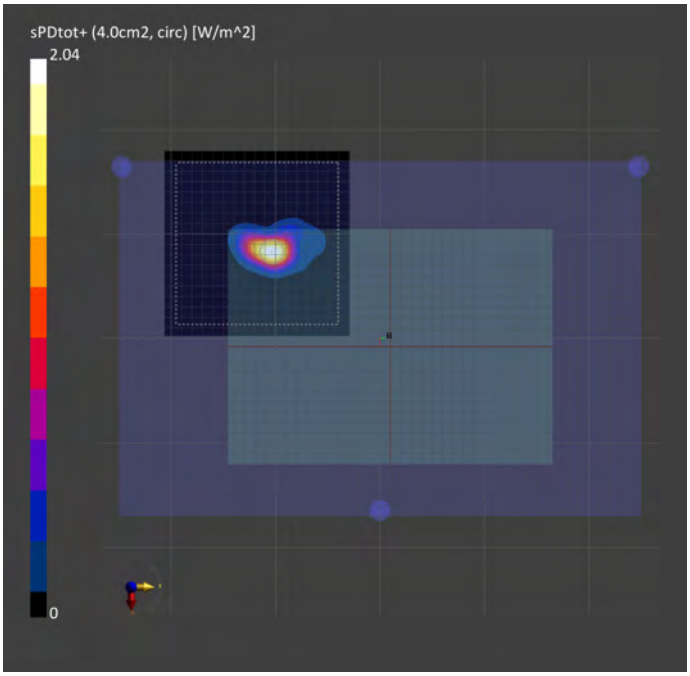
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

Scan Setup

	5G Scan
Grid Extents [mm]	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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	1.51
psPDtot+ [W/m^2]	2.04
psPDmod+ [W/m^2]	2.90
E_{max} [V/m]	46.4
H_{max} [A/m]	0.137
Power Drift [dB]	0.00



21_WLAN6GHz_802.11ax HE160_CH 111_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

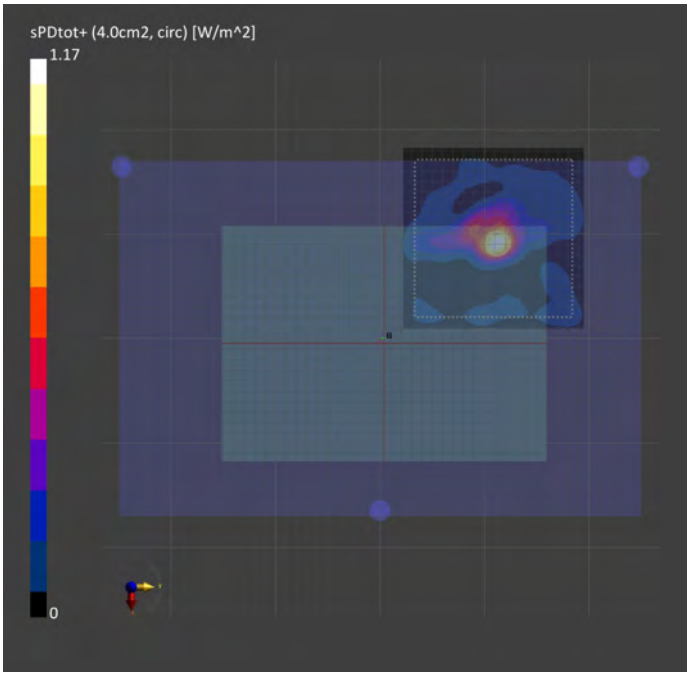
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	0.796
psPDtot+ [W/m^2]	1.17
psPDmod+ [W/m^2]	3.02
E_{max} [V/m]	56.3
H_{max} [A/m]	0.111
Power Drift [dB]	0.02



27_WLAN6GHz_802.11ax HE160_CH 111_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

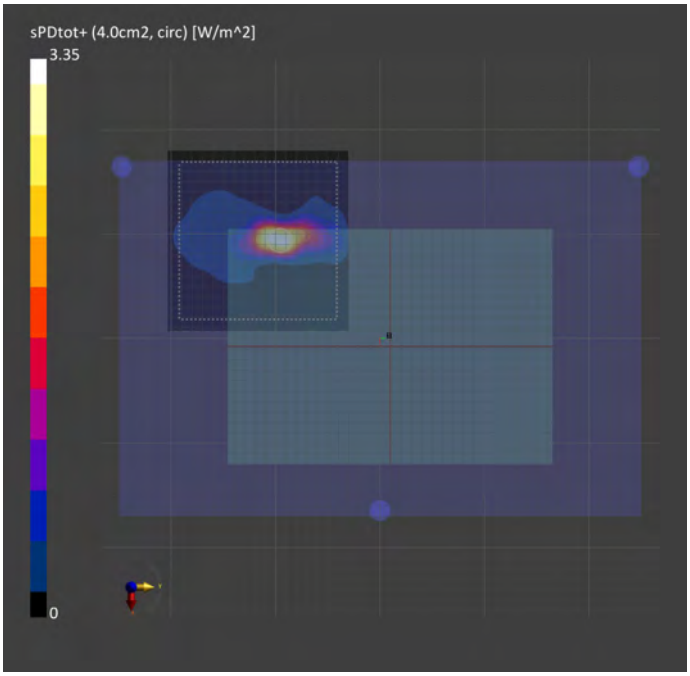
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	3.05
psPDtot+ [W/m^2]	3.35
psPDmod+ [W/m^2]	3.69
E_{max} [V/m]	48.0
H_{max} [A/m]	0.140
Power Drift [dB]	-0.13



22_WLAN6GHz_802.11ax HE160_CH 175_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

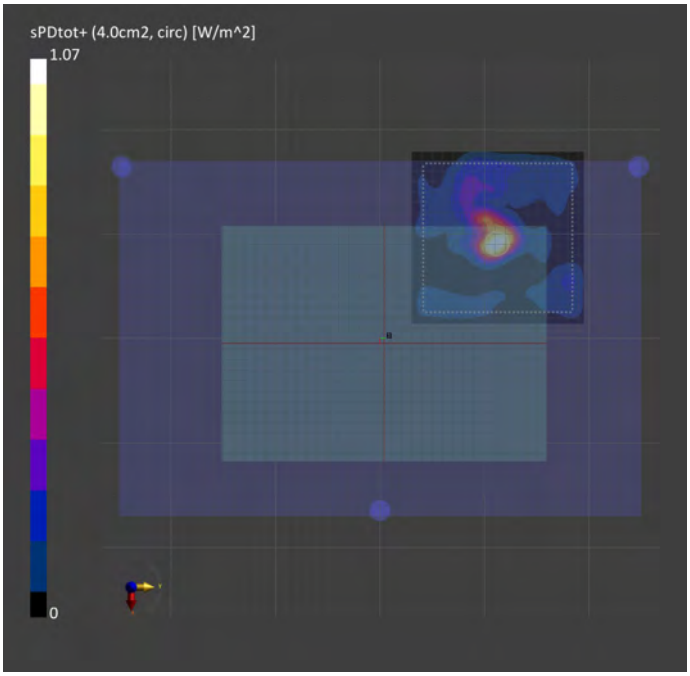
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	0.793
psPDtot+ [W/m^2]	1.07
psPDmod+ [W/m^2]	2.08
E_{max} [V/m]	47.6
H_{max} [A/m]	0.101
Power Drift [dB]	-0.09



26_WLAN6GHz_802.11ax HE160_CH 175_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

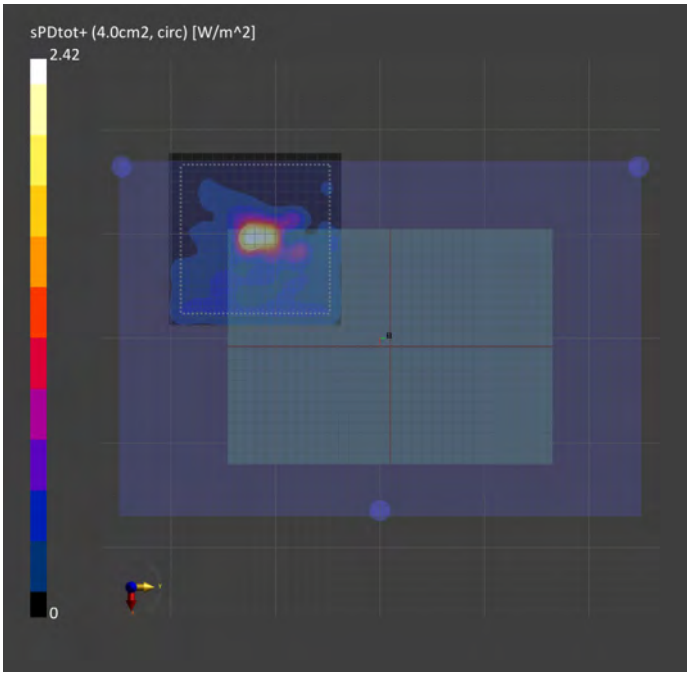
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.19
psPDtot+ [W/m^2]	2.42
psPDmod+ [W/m^2]	4.21
E_{max} [V/m]	60.2
H_{max} [A/m]	0.163
Power Drift [dB]	-0.11



23_WLAN6GHz_802.11ax HE160_CH 207_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

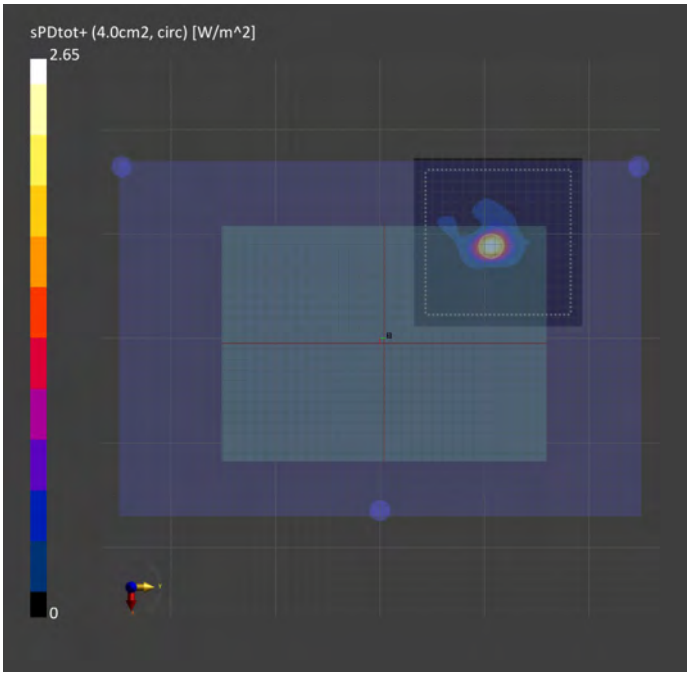
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.45
psPDtot+ [W/m^2]	2.65
psPDmod+ [W/m^2]	2.97
E_{max} [V/m]	49.1
H_{max} [A/m]	0.114
Power Drift [dB]	-0.09



25_WLAN6GHz_802.11ax HE160_CH 207_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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

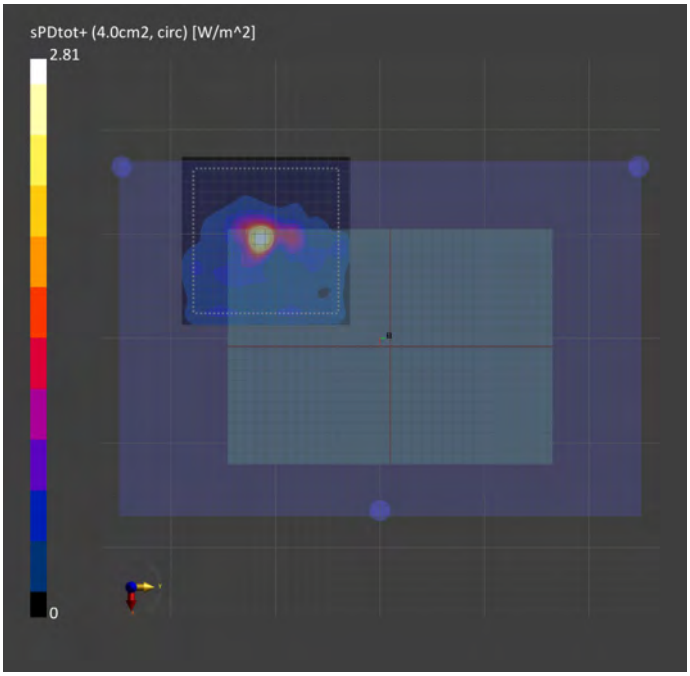
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.10
psPDtot+ [W/m^2]	2.81
psPDmod+ [W/m^2]	4.57
E_{max} [V/m]	63.9
H_{max} [A/m]	0.155
Power Drift [dB]	0.02



24_WLAN6GHz_802.11ax HE80_CH 215_Bottom of laptop_2 mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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, 10731-AAC	7025.0, 215	1.0

Hardware Setup

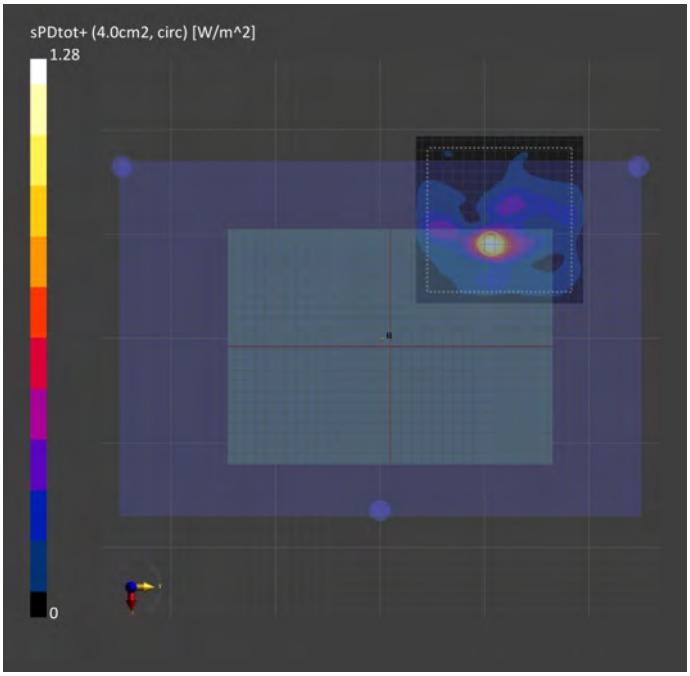
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV3 - SN9403_F1-55GHz, 2021-09-20	DAE4 Sn541, 2021-03-22

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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	1.07
psPDtot+ [W/m^2]	1.28
psPDmod+ [W/m^2]	1.62
E_{max} [V/m]	32.8
H_{max} [A/m]	0.081
Power Drift [dB]	-0.16



29_WLAN6GHz_802.11ax HE80_CH 215_Bottom of laptop_2 mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
UX5400Z, BX5400Z, RX5400Z, P5400Z, P5400CZ	311.0 x 225.0 x 20.0		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, 10731-AAC	7025.0, 215	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	2021-11-21
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	1.44
psPDtot+ [W/m^2]	2.06
psPDmod+ [W/m^2]	2.76
E_{max} [V/m]	42.8
H_{max} [A/m]	0.142
Power Drift [dB]	-0.12