

Appendix C - Highest Measurement Plots

Date: 2022/10/13

14_WLAN 2.4 GHz_802.11b_Ch6_NB-Edge_0 mm_ANT Main

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.01
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.742$ S/m; $\epsilon_r = 38.717$; $\rho = 1000$ 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(8.13, 8.13, 8.13) @ 2437 MHz; Calibrated: 2022/4/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2021/12/30
- Phantom: ELI; 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) = 0.675 W/kg

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

Reference Value = 19.28 V/m; Power Drift = -0.05 dB

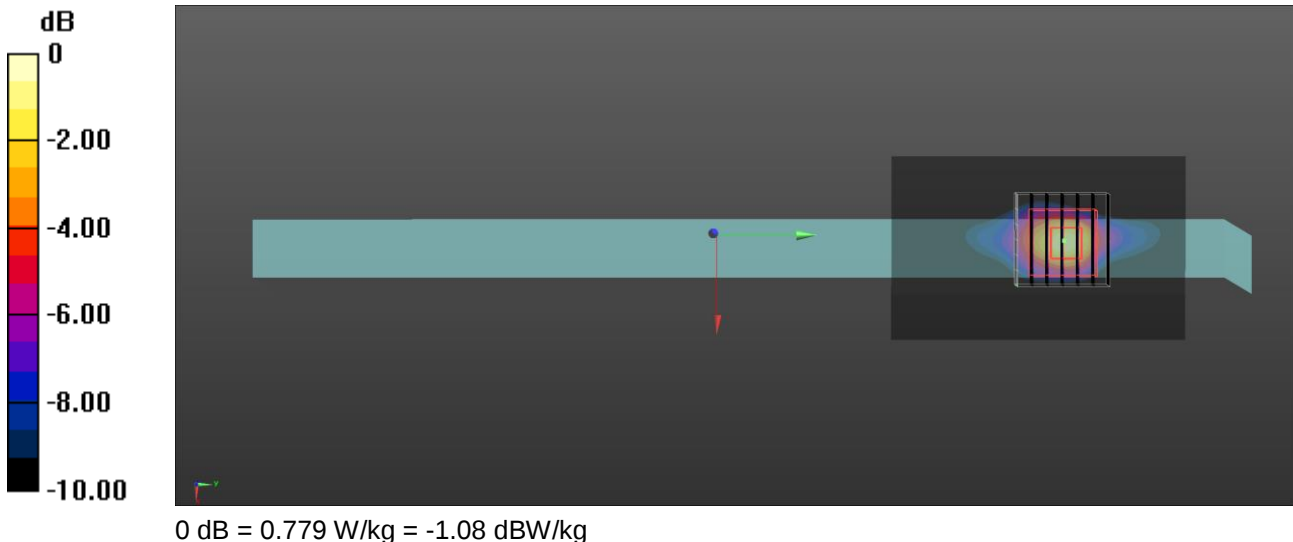
Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.150 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 39.3%

Maximum value of SAR (measured) = 0.779 W/kg



Date: 2022/10/13

20_WLAN 2.4 GHz_802.11b_Ch6_Bottom of laptop_0 mm_ANT Aux

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.01
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.742$ S/m; $\epsilon_r = 38.717$; $\rho = 1000$ 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: 2.0 dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7647; ConvF(8.13, 8.13, 8.13) @ 2437 MHz; Calibrated: 2022/4/27
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2021/12/30
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1133
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.601 W/kg

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

Reference Value = 15.07 V/m; Power Drift = 0.06 dB

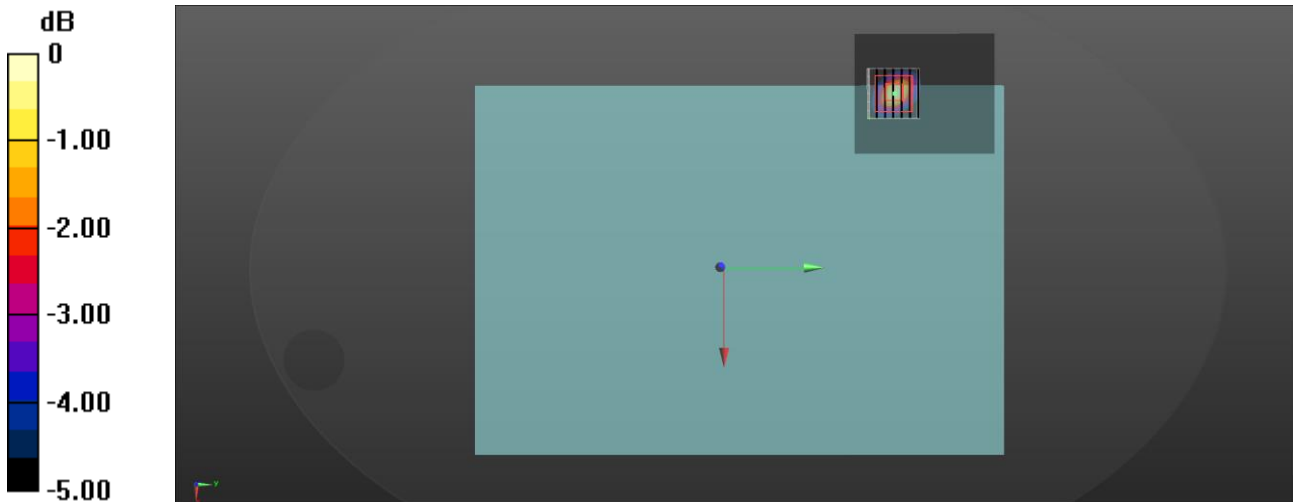
Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.169 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.619 W/kg



0 dB = 0.619 W/kg = -2.08 dBW/kg

Date: 2022/10/13

28_Bluetooth_GFSK_Ch39_Bottom of laptop_0 mm_ANT Aux

DUT: X1403ZA

Communication System: UID 0, Bluetooth 3.0 (0); Frequency: 2441 MHz; Duty Cycle: 1:1.304
Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.746$ S/m; $\epsilon_r = 38.704$; $\rho = 1000$ 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(8.13, 8.13, 8.13) @ 2441 MHz; Calibrated: 2022/4/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2021/12/30
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1133
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.270 W/kg

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

Reference Value = 8.363 V/m; Power Drift = -0.07 dB

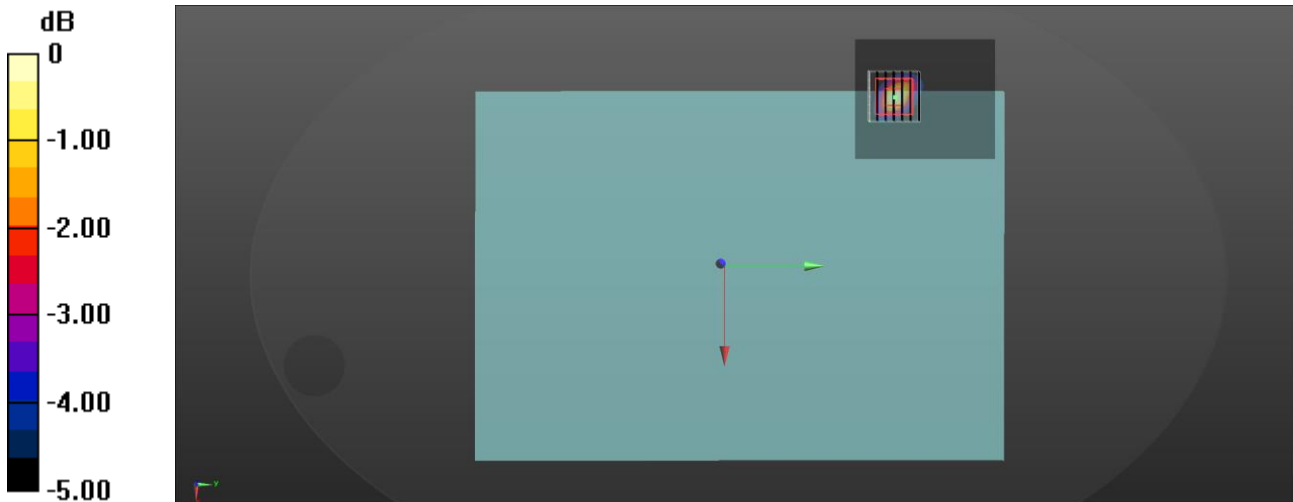
Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.072 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 40.9%

Maximum value of SAR (measured) = 0.267 W/kg



0 dB = 0.267 W/kg = -5.73 dBW/kg

Date: 2022/10/11

33_WLAN 5 GHz_802.11ac VHT160_Ch50_NB-Edge_0 mm_ANT Main

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.067
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.749$ S/m; $\epsilon_r = 37.227$; $\rho = 1000$ 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(5.24, 5.24, 5.24) @ 5250 MHz; Calibrated: 2022/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- 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) = 1.36 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.069 V/m; Power Drift = -0.17 dB

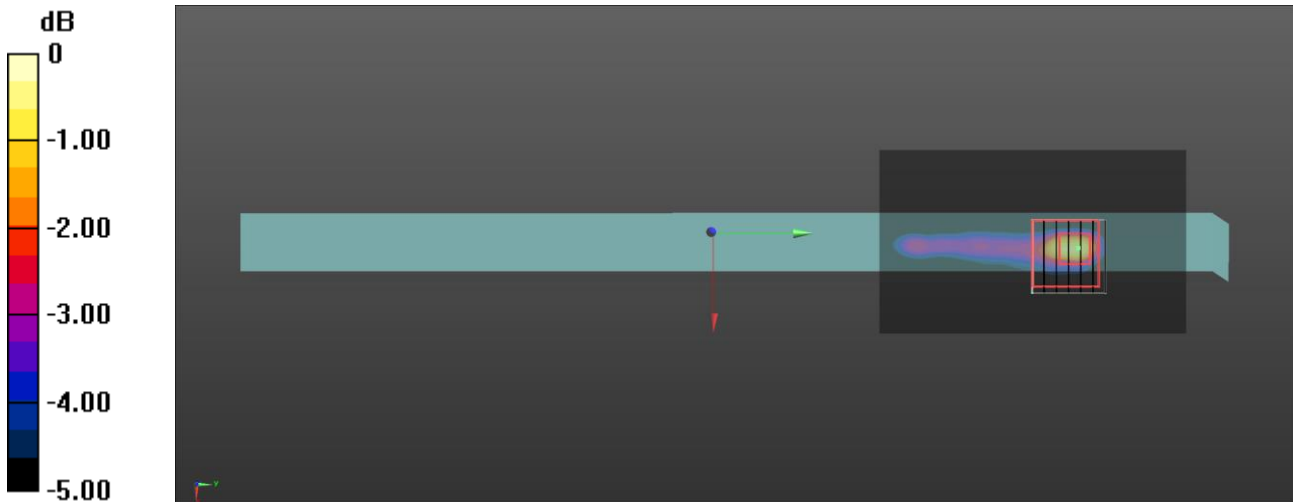
Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.168 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.7%

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



0 dB = 1.51 W/kg = 1.79 dBW/kg

Date: 2022/10/11

37_WLAN 5 GHz_802.11ac VHT160_Ch50_NB-Edge_0 mm_ANT Aux

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.083
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.749$ S/m; $\epsilon_r = 37.227$; $\rho = 1000$ 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(5.24, 5.24, 5.24) @ 5250 MHz; Calibrated: 2022/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- 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) = 1.53 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.167 V/m; Power Drift = 0.01 dB

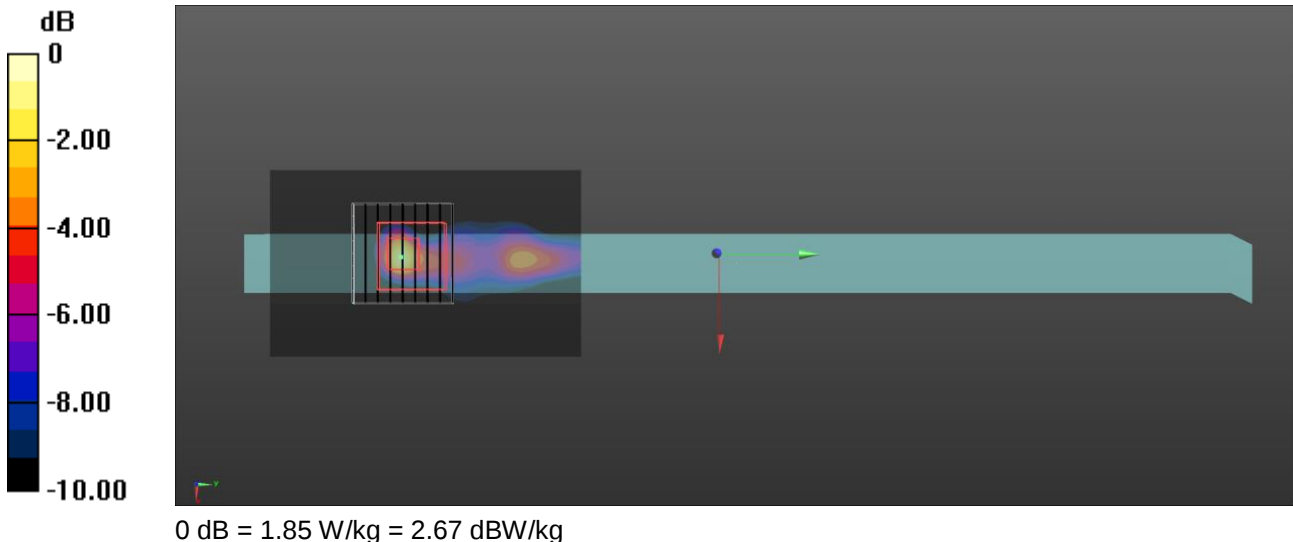
Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.138 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.6%

Maximum value of SAR (measured) = 1.85 W/kg



Date: 2022/10/11

42_WLAN 5 GHz_802.11ac_VHT80_Ch138_NB-Edge_0 mm_ANT Main

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5690 MHz;Duty Cycle: 1:1.11
Medium parameters used: $f = 5690$ MHz; $\sigma = 5.202$ S/m; $\epsilon_r = 36.38$; $\rho = 1000$ 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(4.9, 4.9, 4.9) @ 5690 MHz; Calibrated: 2022/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- 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) = 2.07 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 10.11 V/m; Power Drift = 0.02 dB

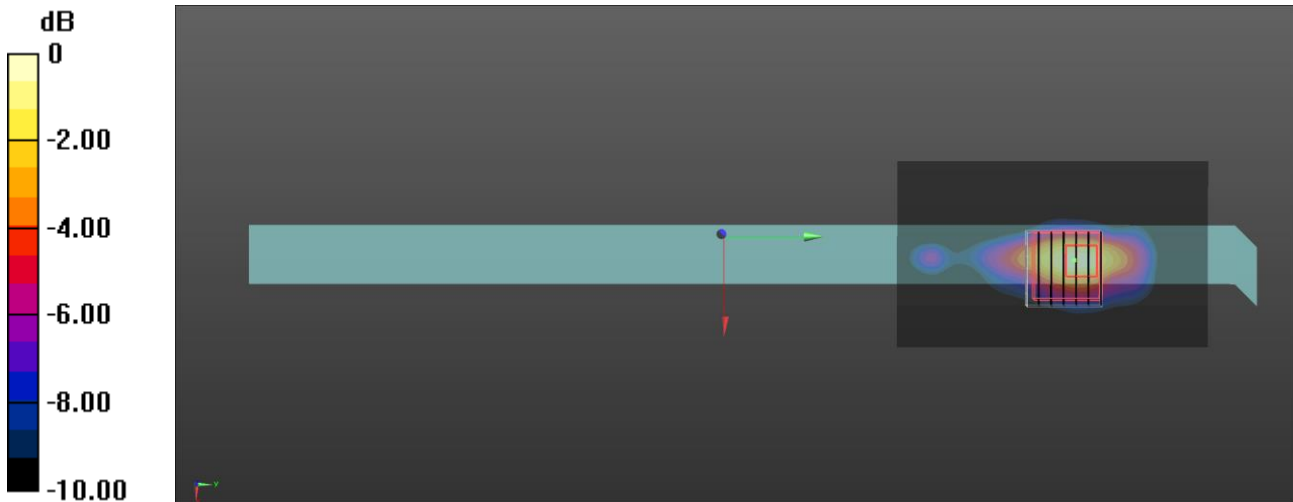
Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.257 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 2.11 W/kg



0 dB = 2.11 W/kg = 3.24 dBW/kg

Date: 2022/10/11

46_WLAN 5 GHz_802.11ac_VHT80_Ch138_NB-Edge_0 mm_ANT Aux

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5690 MHz;Duty Cycle: 1:1.108
Medium parameters used: $f = 5690$ MHz; $\sigma = 5.202$ S/m; $\epsilon_r = 36.38$; $\rho = 1000$ 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(4.9, 4.9, 4.9) @ 5690 MHz; Calibrated: 2022/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- 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) = 1.52 W/kg

Zoom Scan (9x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 19.61 V/m; Power Drift = -0.09 dB

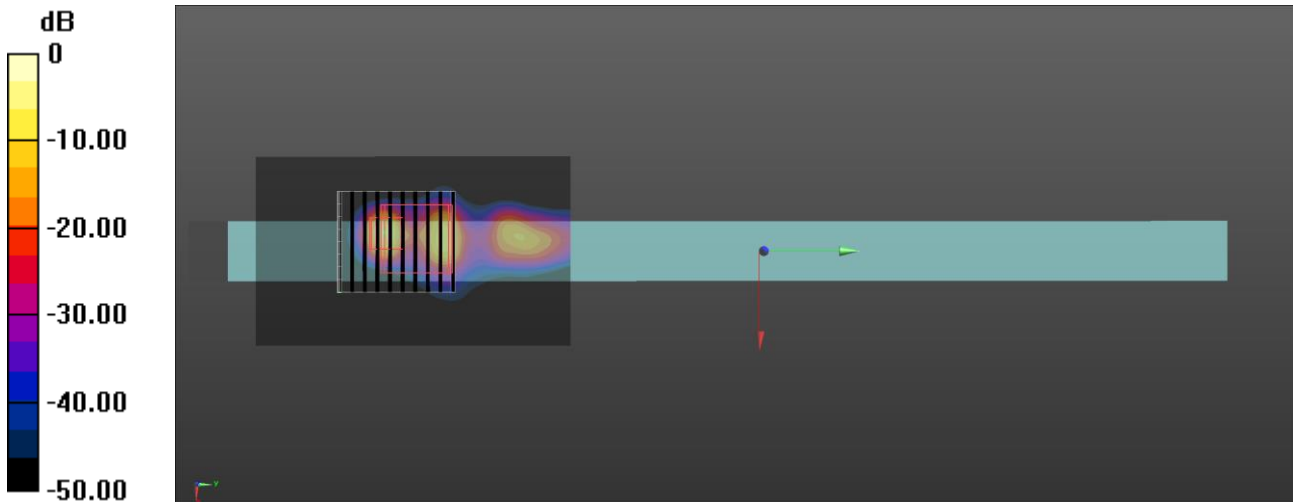
Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.187 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%

Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg = 2.76 dBW/kg

Date: 2022/10/11

57_WLAN 5 GHz_802.11ac VHT80_Ch155_NB-Edge_0 mm_ANT Main

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.11
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.281 \text{ S/m}$; $\epsilon_r = 36.212$; $\rho = 1000 \text{ kg/m}^3$
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(4.9, 4.9, 4.9) @ 5775 MHz; Calibrated: 2022/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 2.48 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 11.01 V/m; Power Drift = -0.16 dB

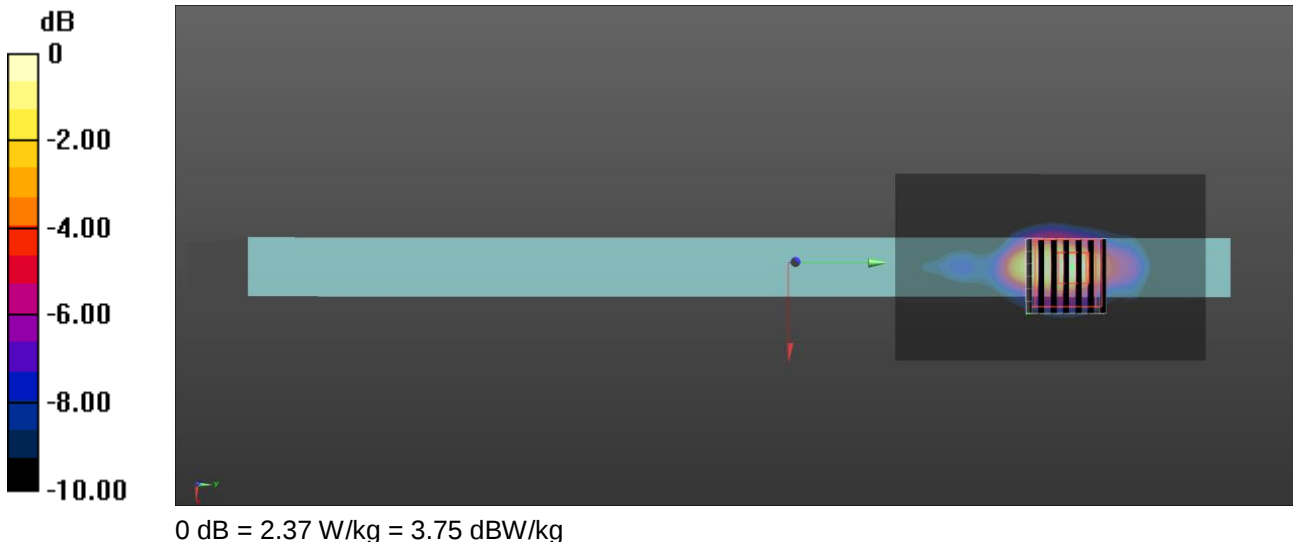
Peak SAR (extrapolated) = 4.61 W/kg

SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.271 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

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



Date: 2022/10/11

61_WLAN 5 GHz_802.11ac VHT80_Ch155_NB-Edge_0 mm_ANT Aux

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.108
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.281 \text{ S/m}$; $\epsilon_r = 36.212$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847; ConvF(4.9, 4.9, 4.9) @ 5775 MHz; Calibrated: 2022/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.50 W/kg

Zoom Scan (9x11x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 16.20 V/m; Power Drift = -0.15 dB

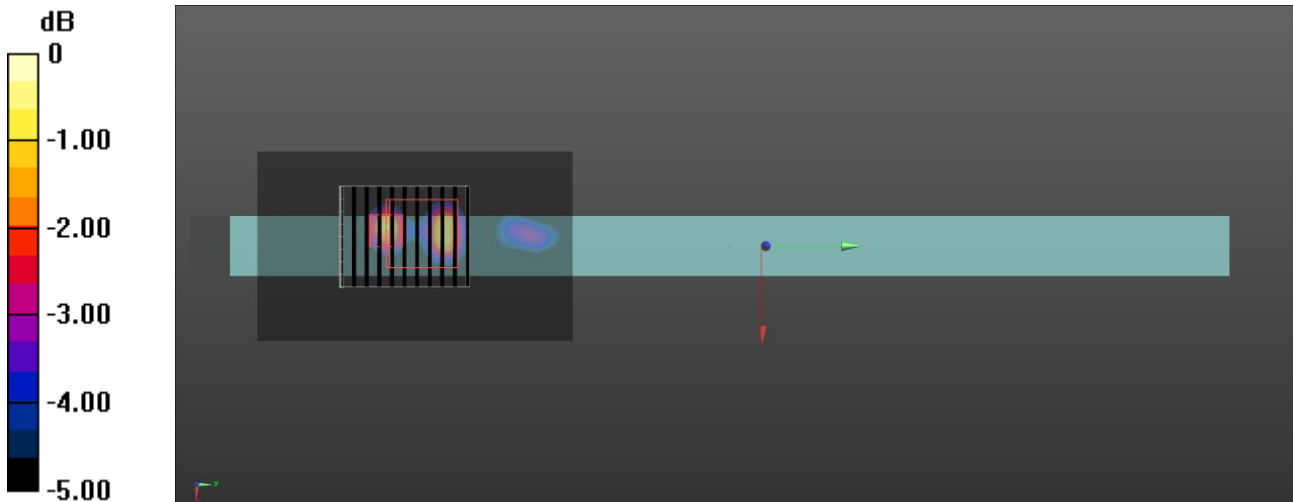
Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.197 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg = 2.72 dBW/kg

Date: 2022/11/23

81_WLAN 5 GHz_802.11ac_VHT160_Ch163_NB-Edge_0 mm_ANT Aux

DUT: X1403ZA

Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5815 MHz;Duty Cycle: 1:1.083
Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.257 \text{ S/m}$; $\epsilon_r = 35.44$; $\rho = 1000 \text{ kg/m}^3$
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 - SN7756; ConvF(4.6, 4.6, 4.6) @ 5815 MHz; Calibrated: 2022/8/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2022/3/23
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (61x101x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.32 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 12.08 V/m; Power Drift = 0.03 dB

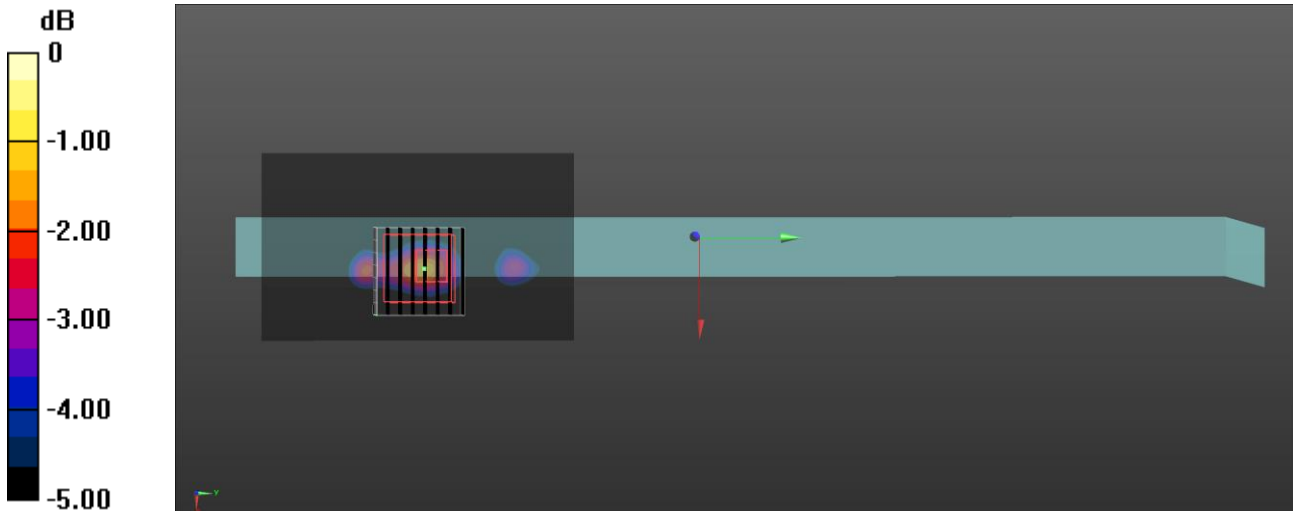
Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.179 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 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

01_WLAN 6 GHz_802.11ax HE160_Ch47_NB-Edge_0 mm_ANT Main

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	5.5	5.75	35.7

Hardware Setup

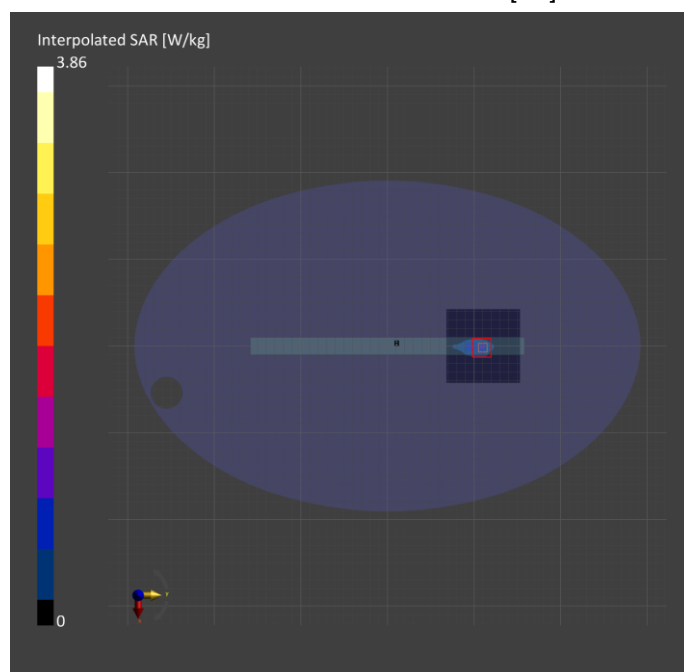
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.711	0.779
psSAR10g [W/Kg]	0.242	0.234
psPDab (1.0cm2, sq) [W/m2]		7.79
psPDab (4.0cm2, sq) [W/m2]		5.45
Power Drift [dB]	-0.09	-0.08
TSL Correction	Positive only	Positive only
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		6.1



02_WLAN 6 GHz_802.11ax HE160_Ch111_NB-Edge_0 mm_ANT Main

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	5.5	6.22	34.9

Hardware Setup

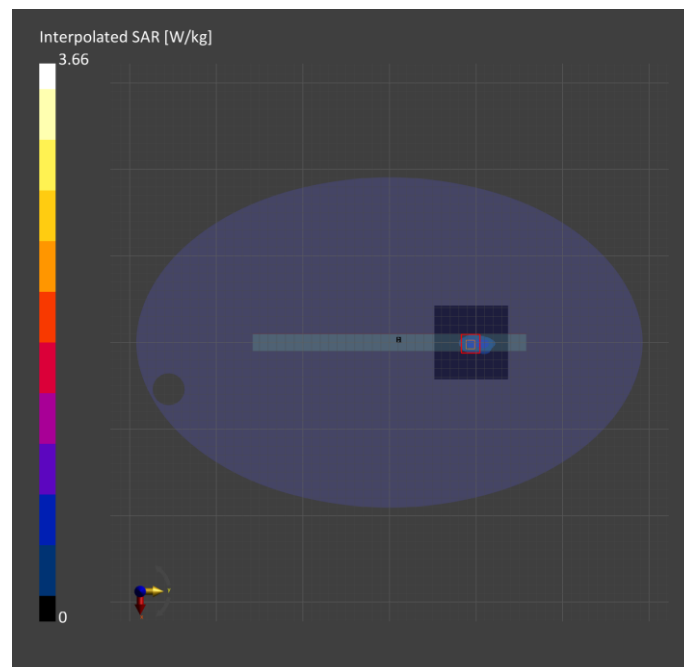
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.635	0.682
psSAR10g [W/Kg]	0.225	0.208
psPDab (1.0cm2, sq) [W/m2]		6.82
psPDab (4.0cm2, sq) [W/m2]		4.85
Power Drift [dB]	-0.02	-0.04
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		6.4



03_WLAN 6 GHz_802.11ax HE160_Ch143_NB-Edge_0 mm_ANT Main

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	5.5	6.43	34.4

Hardware Setup

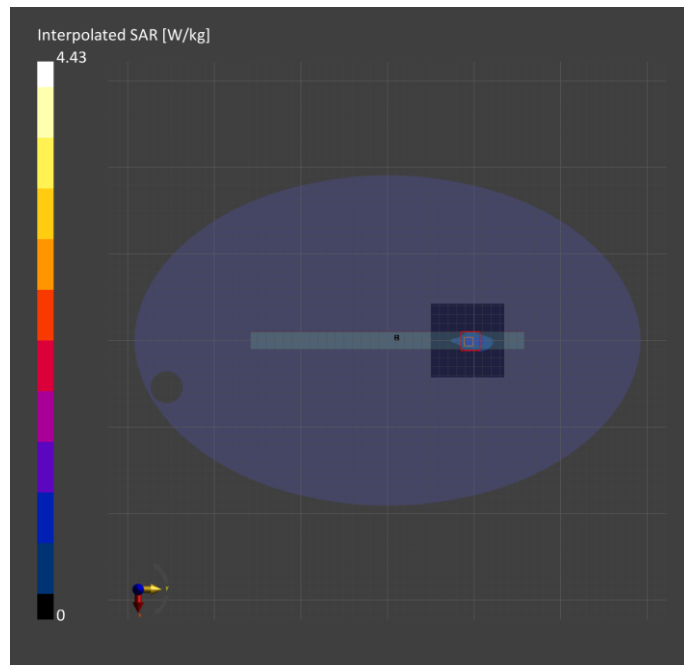
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.792	0.817
psSAR10g [W/Kg]	0.274	0.270
psPDab (1.0cm2, sq) [W/m2]		8.17
psPDab (4.0cm2, sq) [W/m2]		6.18
Power Drift [dB]	0.11	0.06
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.0
Dist 3dB Peak [mm]		6.7



04_WLAN 6 GHz_802.11ax HE160_Ch175_NB-Edge_0 mm_ANT Main

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	5.5	6.65	34.4

Hardware Setup

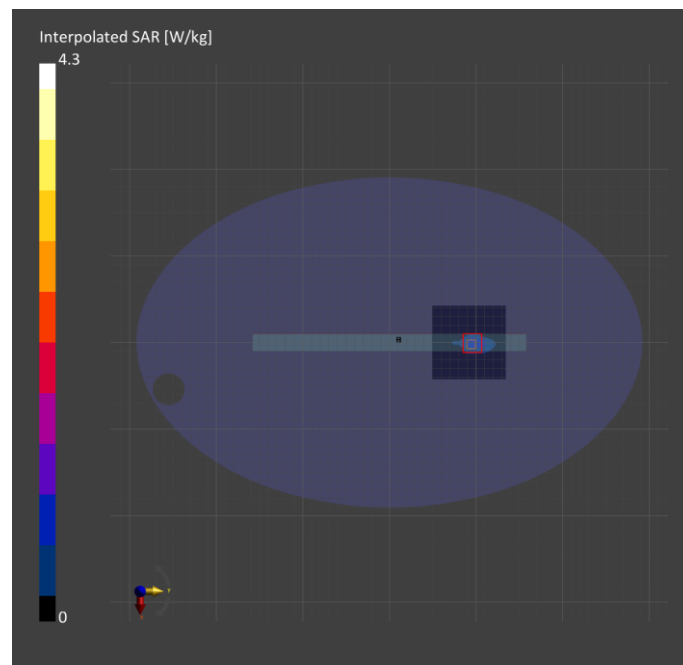
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.805	0.785
psSAR10g [W/Kg]	0.277	0.265
psPDab (1.0cm2, sq) [W/m2]		7.85
psPDab (4.0cm2, sq) [W/m2]		6.08
Power Drift [dB]	-0.12	-0.02
TSL Correction	Positive only	Positive only
M2/M1 [%]		46.4
Dist 3dB Peak [mm]		7.5



05_WLAN 6 GHz_802.11ax HE160_Ch207_NB-Edge_0 mm_ANT Main

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	5.5	6.78	33.9

Hardware Setup

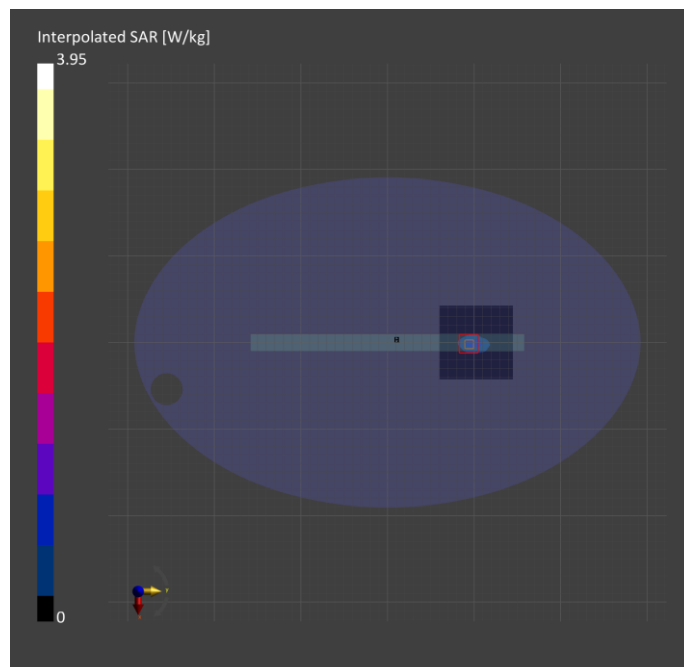
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.681	0.683
psSAR10g [W/Kg]	0.234	0.219
psPDab (1.0cm2, sq) [W/m2]		6.83
psPDab (4.0cm2, sq) [W/m2]		5.11
Power Drift [dB]	-0.05	-0.11
TSL Correction	Positive only	Positive only
M2/M1 [%]		45.2
Dist 3dB Peak [mm]		6.5



06_WLAN 6 GHz_802.11ax HE160_Ch47_NB-Edge_0 mm_ANT Aux

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	5.5	5.75	35.7

Hardware Setup

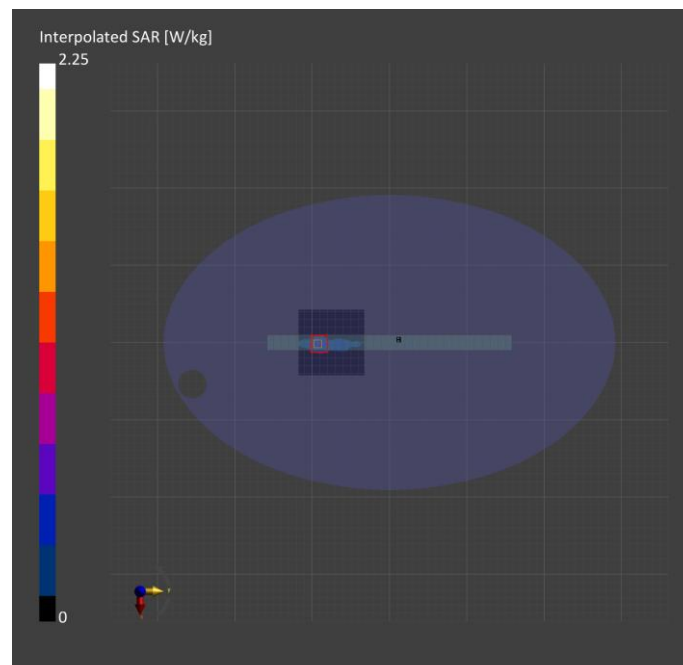
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.400	0.439
psSAR10g [W/Kg]	0.128	0.134
psPDab (1.0cm2, sq) [W/m2]		4.39
psPDab (4.0cm2, sq) [W/m2]		3.08
Power Drift [dB]	-0.02	-0.02
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		6.7



07_WLAN 6 GHz_802.11ax HE160_Ch111_NB-Edge_0 mm_ANT Aux

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	5.5	6.22	34.9

Hardware Setup

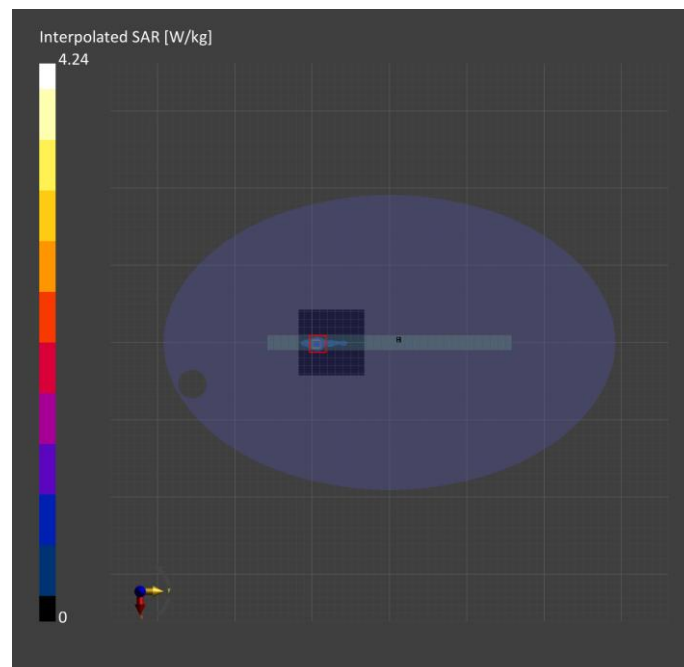
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.604	0.732
psSAR10g [W/Kg]	0.188	0.195
psPDab (1.0cm2, sq) [W/m2]		7.32
psPDab (4.0cm2, sq) [W/m2]		4.53
Power Drift [dB]	-0.11	0.01
TSL Correction	Positive only	Positive only
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		5.8



08_WLAN 6 GHz_802.11ax HE160_Ch143_NB-Edge_0 mm_ANT Aux

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	5.5	6.43	34.4

Hardware Setup

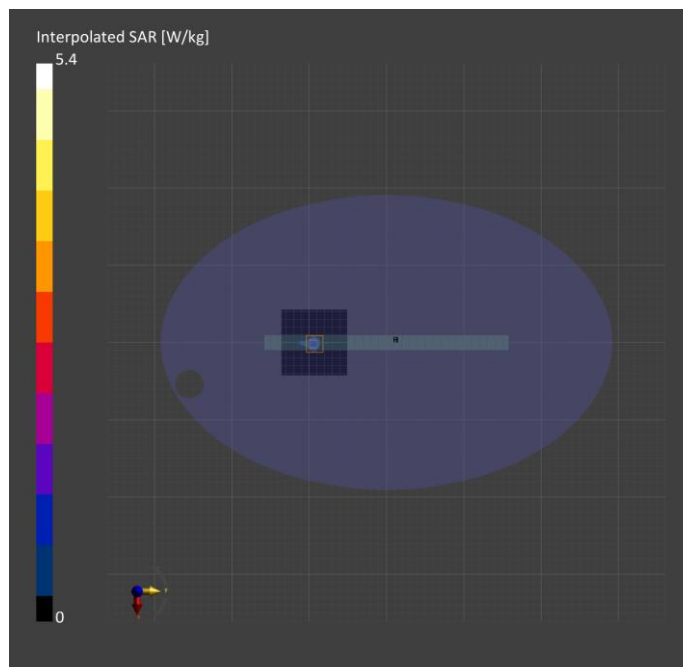
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.813	0.871
psSAR10g [W/Kg]	0.229	0.240
psPDab (1.0cm2, sq) [W/m2]		8.71
psPDab (4.0cm2, sq) [W/m2]		5.22
Power Drift [dB]	-0.05	-0.10
TSL Correction	Positive only	Positive only
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		5.8



09_WLAN 6 GHz_802.11ax HE160_Ch175_NB-Edge_0 mm_ANT Aux

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	5.5	6.65	34.4

Hardware Setup

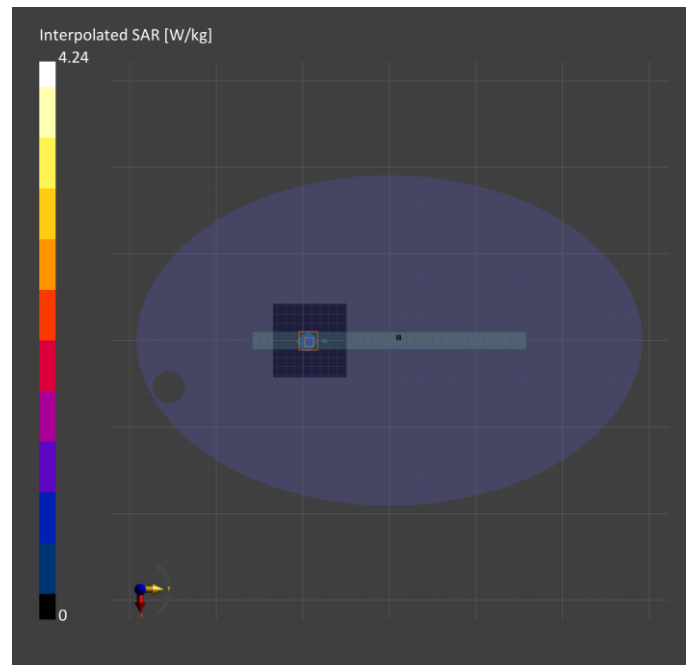
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.673	0.751
psSAR10g [W/Kg]	0.200	0.208
psPDab (1.0cm2, sq) [W/m2]		7.51
psPDab (4.0cm2, sq) [W/m2]		4.89
Power Drift [dB]	0.18	-0.02
TSL Correction	Positive only	Positive only
M2/M1 [%]		47.4
Dist 3dB Peak [mm]		6.9



10_WLAN 6 GHz_802.11ax HE160_Ch207_NB-Edge_0 mm_ANT Aux

Device under Test Properties

Model: X1403ZA

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	NB-Edge, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	5.5	6.78	33.9

Hardware Setup

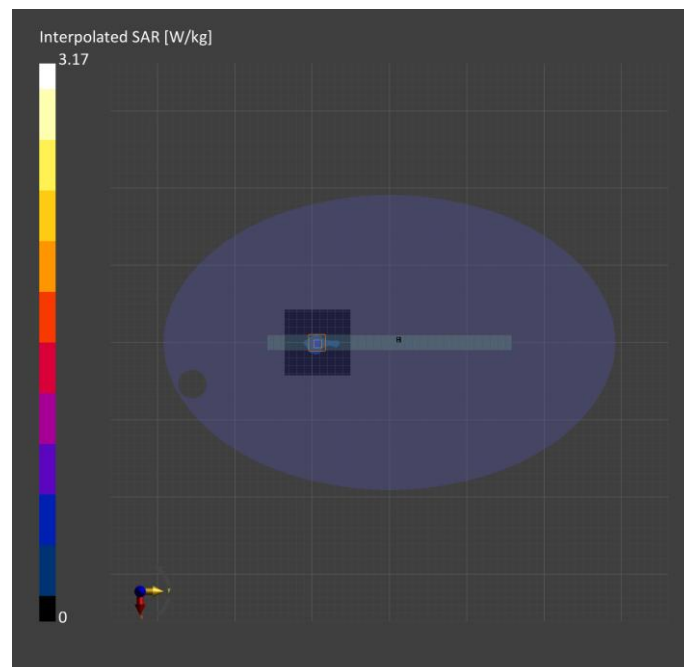
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	HSL6G	EX3DV4 - SN3847, 2022-03-24	DAE4 Sn541, 2022-03-23

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	2022-10-14	2022-10-14
psSAR1g [W/Kg]	0.553	0.568
psSAR10g [W/Kg]	0.179	0.175
psPDab (1.0cm2, sq) [W/m2]		5.68
psPDab (4.0cm2, sq) [W/m2]		4.08
Power Drift [dB]	0.06	-0.04
TSL Correction	Positive only	Positive only
M2/M1 [%]		46.1
Dist 3dB Peak [mm]		7.3



70_WLAN 6 GHz_802.11ax HE160_Ch47_NB-Edge_2 mm_ANT Main

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setup

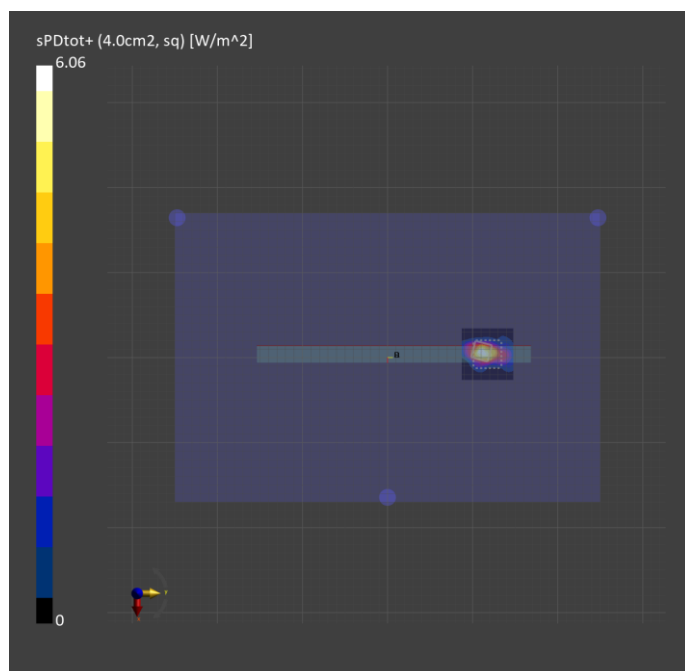
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.94
psPDtot+ [W/m ²]	5.79
psPDmod+ [W/m ²]	12.0
E _{max} [V/m]	104
H _{max} [A/m]	0.538
Power Drift [dB]	0.10



71_WLAN 6 GHz_802.11ax HE160_Ch111_NB-Edge_2 mm_ANT Main

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	1.0

Hardware Setup

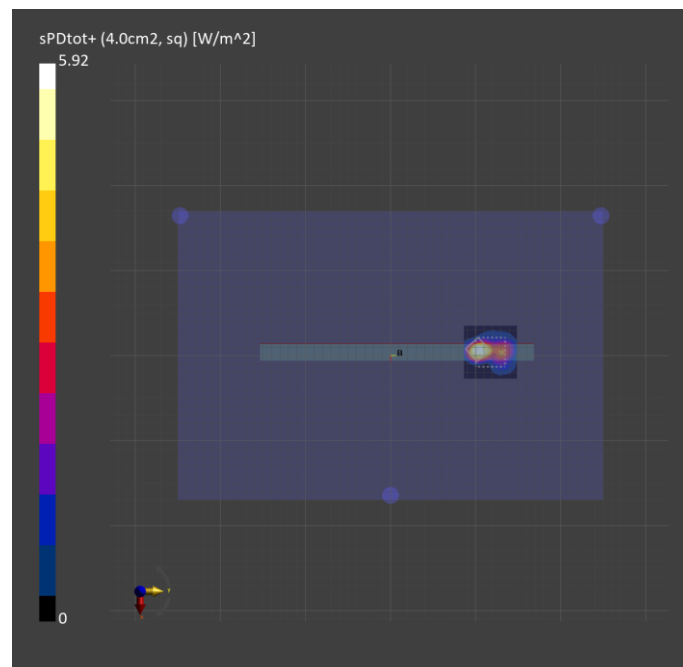
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.91
psPDtot+ [W/m ²]	5.83
psPDmod+ [W/m ²]	8.50
E _{max} [V/m]	84.3
H _{max} [A/m]	0.366
Power Drift [dB]	-0.01



72_WLAN 6 GHz_802.11ax HE160_Ch143_NB-Edge_2 mm_ANT Main

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

Hardware Setup

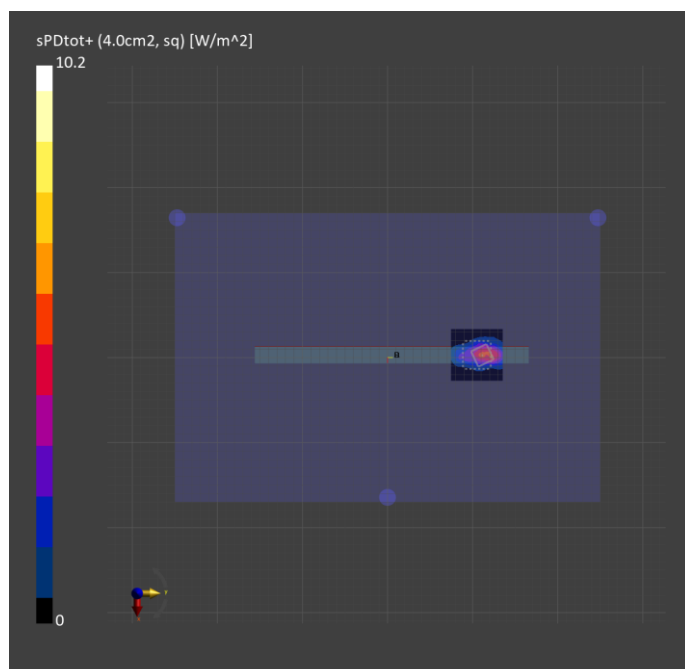
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.74
psPDtot+ [W/m ²]	5.44
psPDmod+ [W/m ²]	11.9
E _{max} [V/m]	90.8
H _{max} [A/m]	0.593
Power Drift [dB]	-0.02



73_WLAN 6 GHz_802.11ax HE160_Ch175_NB-Edge_2 mm_ANT Main

Device under Test Properties

Model:X1403ZA

Exposure Conditions

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

Hardware Setup

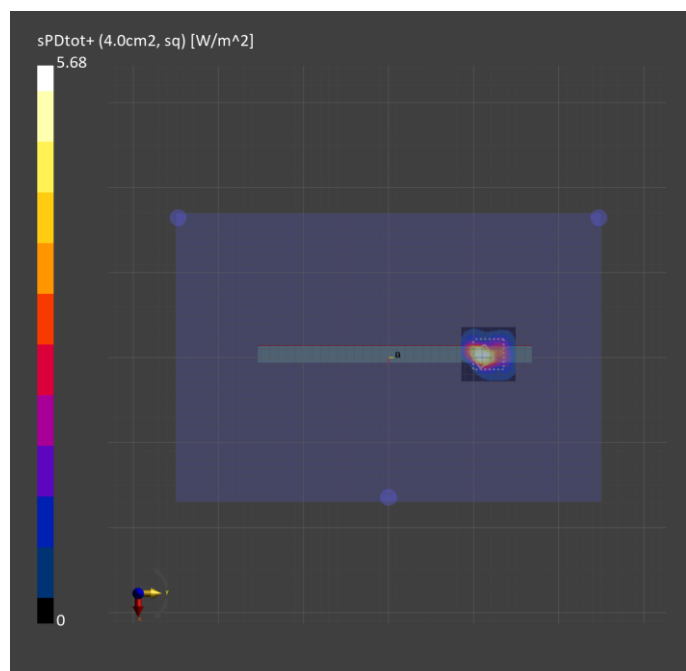
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.27
psPDtot+ [W/m ²]	5.46
psPDmod+ [W/m ²]	10.7
E _{max} [V/m]	83.9
H _{max} [A/m]	0.626
Power Drift [dB]	-0.02



74_WLAN 6 GHz_802.11ax HE160_Ch207_NB-Edge_2 mm_ANT Main

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

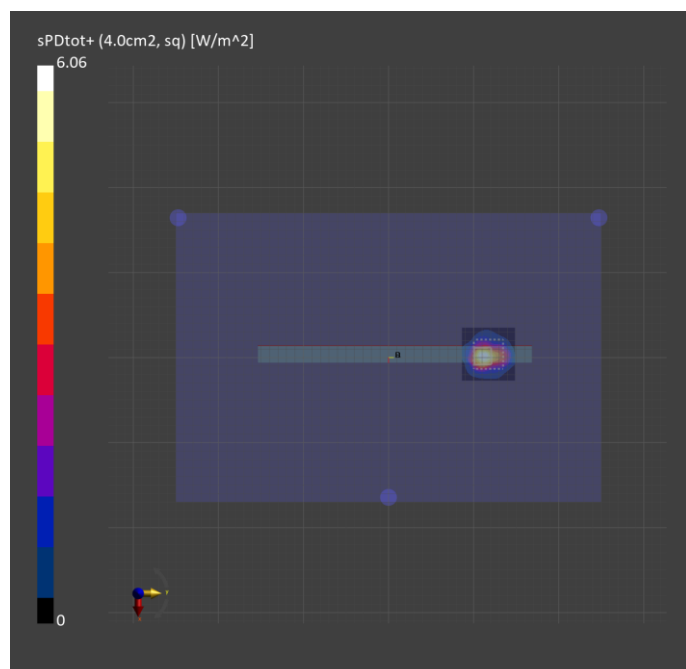
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.70
psPDtot+ [W/m ²]	5.88
psPDmod+ [W/m ²]	11.7
E _{max} [V/m]	87.0
H _{max} [A/m]	0.626
Power Drift [dB]	0.06



75_WLAN 6 GHz_802.11ax HE160_Ch47_NB-Edge_2 mm_ANT Aux

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setup

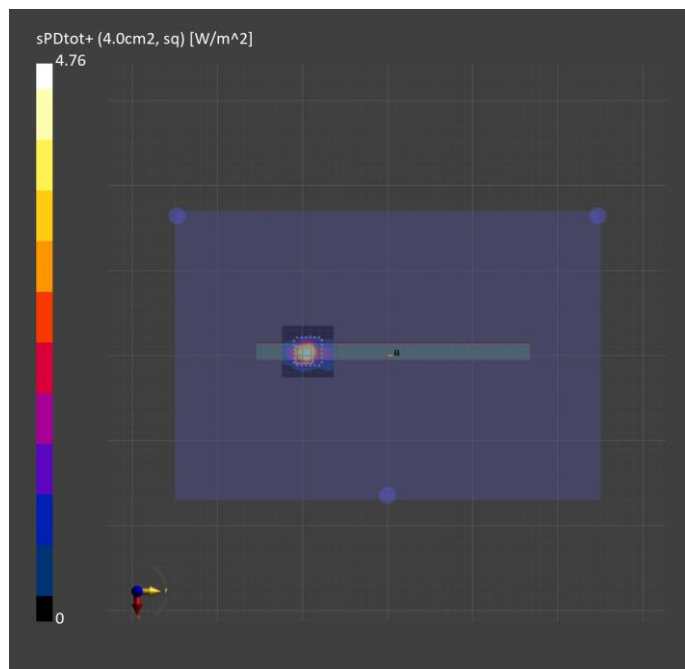
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.22
psPDtot+ [W/m ²]	4.53
psPDmod+ [W/m ²]	8.21
E _{max} [V/m]	97.2
H _{max} [A/m]	0.441
Power Drift [dB]	0.03



76_WLAN 6 GHz_802.11ax HE160_Ch111_NB-Edge_2 mm_ANT Aux

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	1.0

Hardware Setup

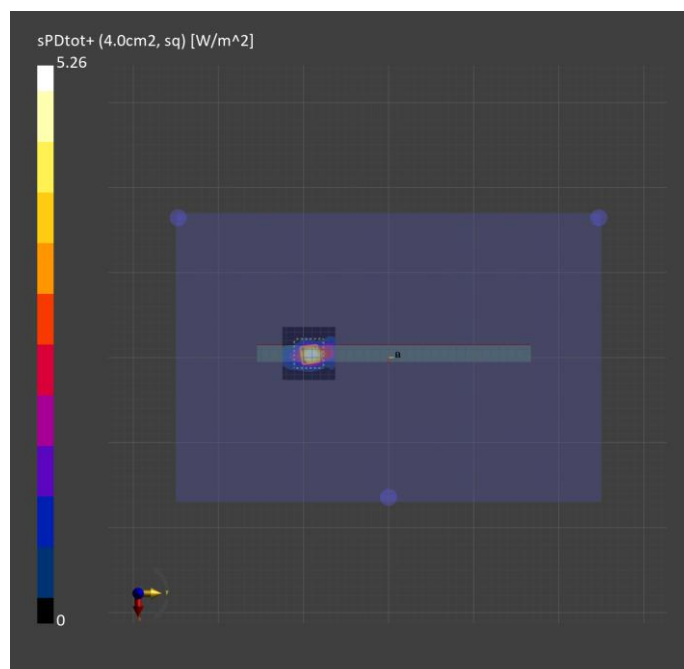
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.73
psPDtot+ [W/m ²]	5.10
psPDmod+ [W/m ²]	11.8
E _{max} [V/m]	112
H _{max} [A/m]	0.588
Power Drift [dB]	0.16



77_WLAN 6 GHz_802.11ax HE160_Ch143_NB-Edge_2 mm_ANT Aux

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

Hardware Setup

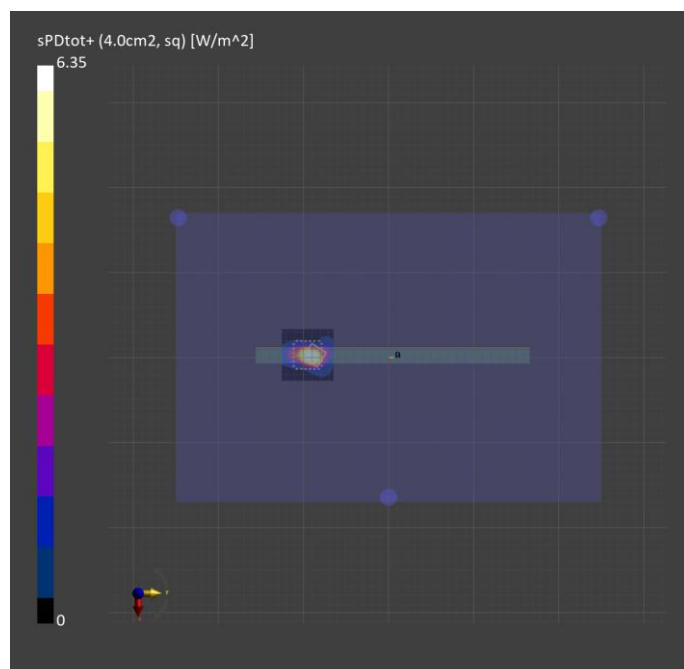
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.36
psPDtot+ [W/m ²]	5.99
psPDmod+ [W/m ²]	15.3
E _{max} [V/m]	112
H _{max} [A/m]	0.725
Power Drift [dB]	0.06



78_WLAN 6 GHz_802.11ax HE160_Ch175_NB-Edge_2 mm_ANT Aux

Device under Test Properties

Model:X1403ZA

Exposure Conditions

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

Hardware Setup

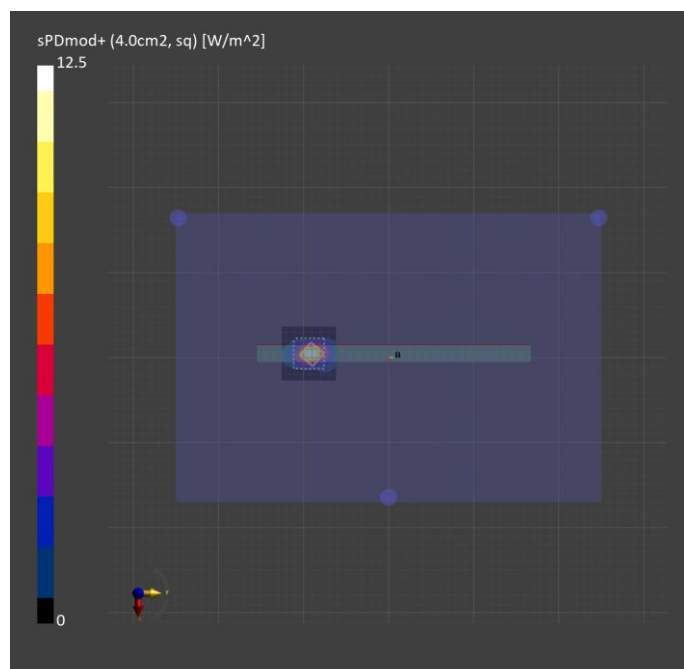
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.74
psPDtot+ [W/m ²]	3.96
psPDmod+ [W/m ²]	12.3
E _{max} [V/m]	94.3
H _{max} [A/m]	0.647
Power Drift [dB]	0.03



79_WLAN 6 GHz_802.11ax HE160_Ch207_NB-Edge_2 mm_ANT Aux

Device under Test Properties

Model:X1403ZA

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	NB-Edge, 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	EUmmWV4 - SN9639_F1-55GHz, 2022-08-24	DAE4 Sn541, 2022-03-23

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	2022-10-15
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.36
psPDtot+ [W/m ²]	4.47
psPDmod+ [W/m ²]	9.60
E _{max} [V/m]	87.0
H _{max} [A/m]	0.583
Power Drift [dB]	0.13

