
Appendix C – Highest Test Plots

Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**1_WLAN2.4G_802.11b_Bottom of laptop_0 mm_Ch12_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406S	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	WLAN 2.4GHz	WLAN, 10012 - CAB	2467.000, 12	7.05	1.80	39.9

Hardware Setup

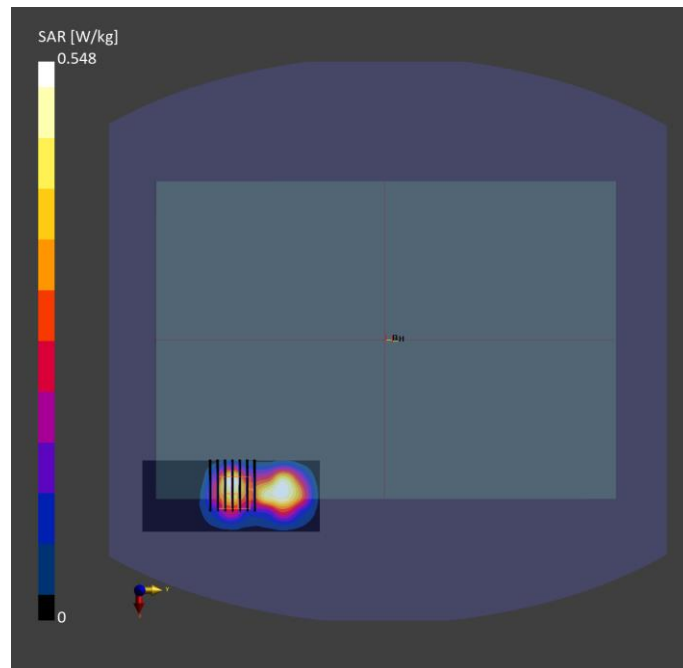
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.336	0.275
psSAR-10g [W/kg]	0.169	0.129
Power Drift [dB]		-0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		35.0
Dist 3dB Peak [mm]		6.0



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**2_WLAN5.3G_802.11ac VHT160_Bottom of laptop_0 mm_Ch50_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406S	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	WLAN 5GHz	WLAN, 10554 - AAD	5250.000, 50	5.58	4.52	36.5

Hardware Setup

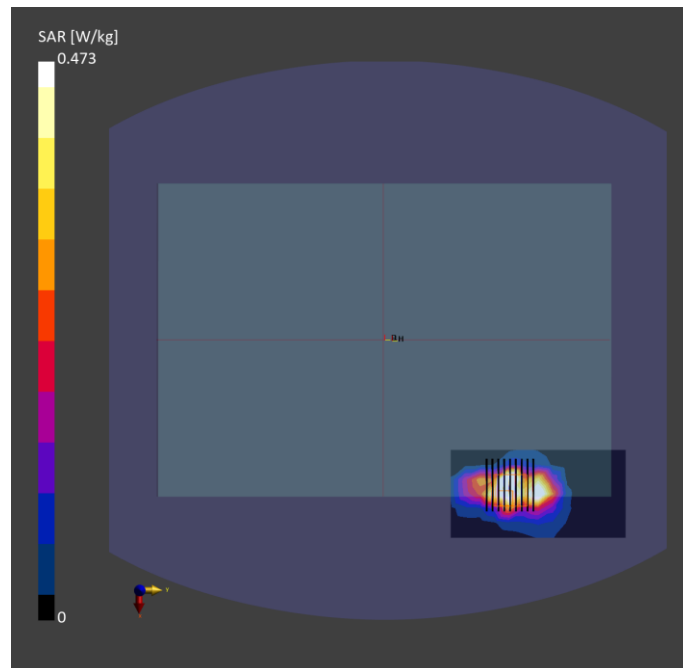
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.477	0.445
psSAR-10g [W/kg]	0.173	0.161
Power Drift [dB]		-0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		62.9
Dist 3dB Peak [mm]		7.9



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**3_WLAN5.6G_802.11ac VHT160_Bottom of laptop_0 mm_Ch114_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406S	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	WLAN 5GHz	WLAN, 10554 - AAD	5570.000, 114	4.83	4.88	36.0

Hardware Setup

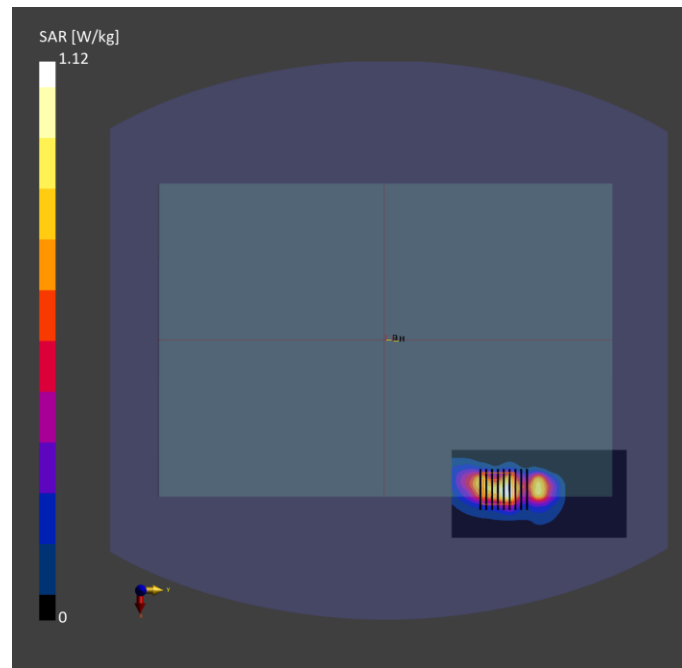
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.471	0.434
psSAR-10g [W/kg]	0.171	0.156
Power Drift [dB]		-0.01
TSL Correction	Positive only	Positive only
M2 / M1 [%]		58.2
Dist 3dB Peak [mm]		6.4



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**5_WLAN5.8G_802.11ac VHT160_Bottom of laptop_0 mm_Ch163_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406S	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	WLAN 5GHz	WLAN, 10554 - AAD	5815.000, 163	4.9	5.18	35.5

Hardware Setup

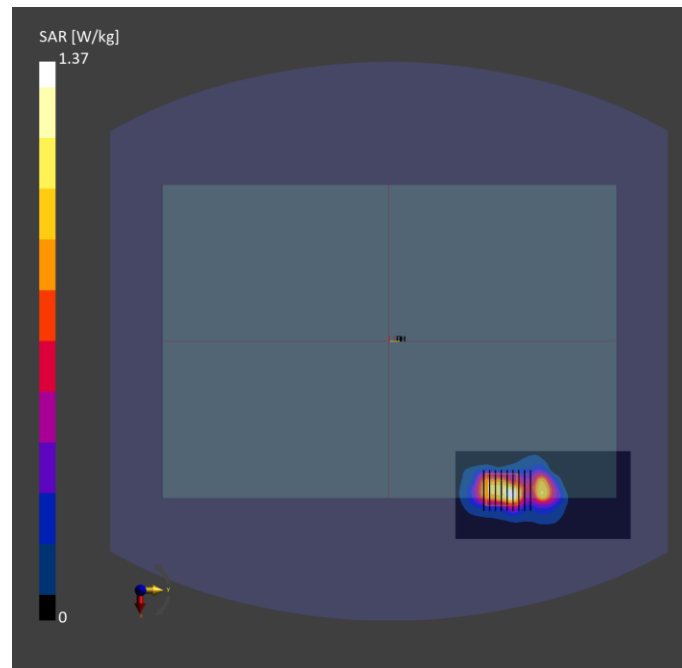
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.476	0.515
psSAR-10g [W/kg]	0.174	0.167
Power Drift [dB]		-0.03
TSL Correction	Positive only	Positive only
M2 / M1 [%]		56.8
Dist 3dB Peak [mm]		3.6



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**10_Bluetooth_GFSK_Bottom of laptop_0 mm_Ch0_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406SA	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	ISM 2.4 GHz Band	Bluetooth, 10032 - CAA	2402.000, 0	7.05	1.75	40.0

Hardware Setup

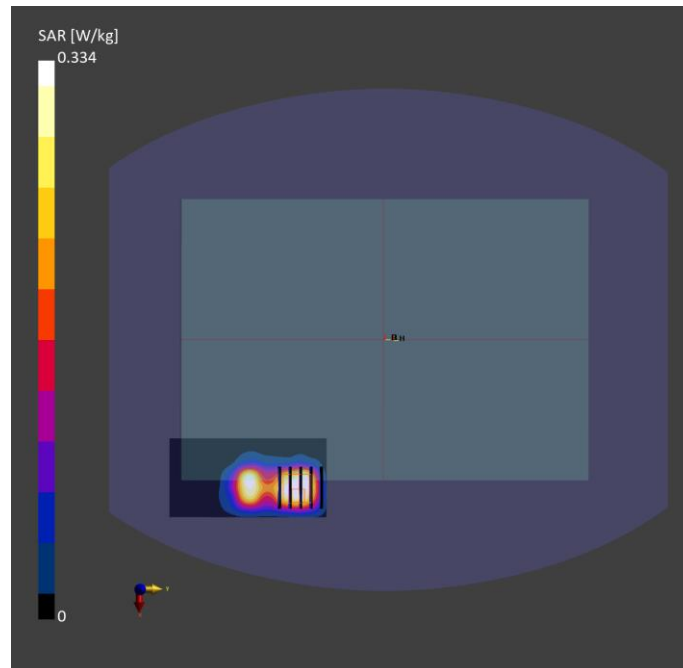
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.210	0.195
psSAR-10g [W/kg]	0.109	0.097
Power Drift [dB]		-0.11
TSL Correction	Positive only	Positive only
M2 / M1 [%]		39.6
Dist 3dB Peak [mm]		8.7



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**6_UNII-5_802.11be EHT320_Bottom of laptop_0 mm_Ch31_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406SA	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	U-NII-5	WLAN, 11026 - AAA	6105.000, 31	5.0	5.51	35.1

Hardware Setup

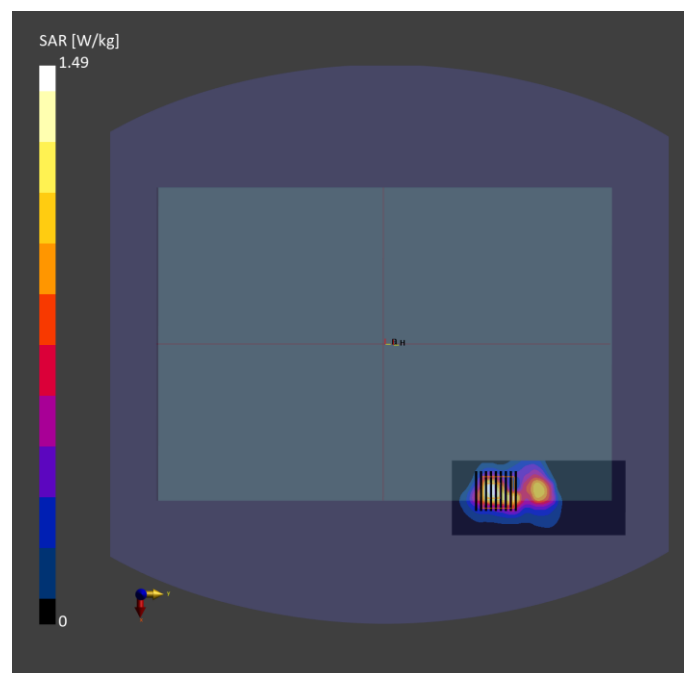
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 119.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.489	0.554
psSAR-10g [W/kg]	0.165	0.176
psAPD (1.0 cm ² , sq) [W/m ²]		5.93
psAPD (4.0 cm ² , sq) [W/m ²]		4.05
Power Drift [dB]		-0.08
TSL Correction	Positive only	Positive only
M2 / M1 [%]		52.1
Dist 3dB Peak [mm]		6.8



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**7_UNII-6_802.11be EHT320_Bottom of laptop_0 mm_Ch95_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406SA	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	U-NII-6	WLAN, 11026 - AAA	6425.000, 95	5.0	5.89	34.5

Hardware Setup

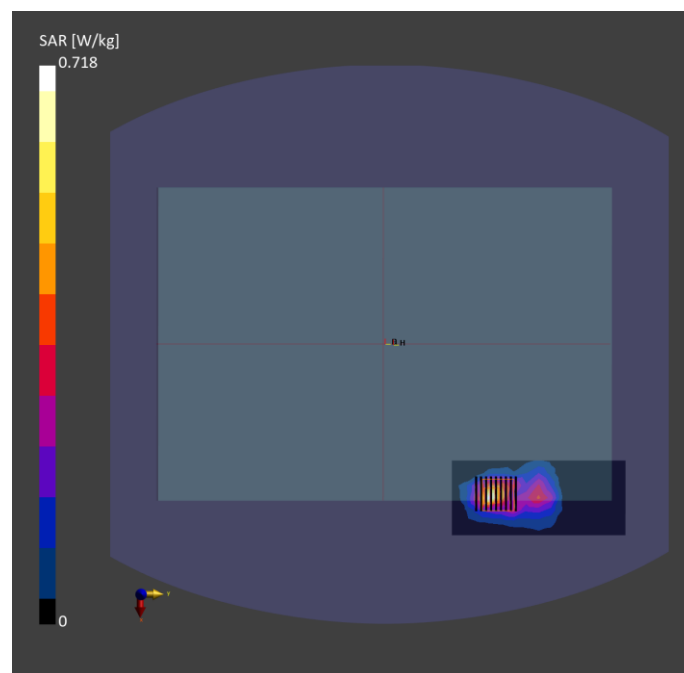
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 119.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.496	0.535
psSAR-10g [W/kg]	0.161	0.163
psAPD (1.0 cm ² , sq) [W/m ²]		5.35
psAPD (4.0 cm ² , sq) [W/m ²]		3.73
Power Drift [dB]		-0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		51.0
Dist 3dB Peak [mm]		6.5



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**8_UNII-7_802.11be EHT320_Bottom of laptop_0 mm_Ch159_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406SA	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	U-NII-7	WLAN, 11026 - AAA	6745.000, 159	5.0	6.27	34.0

Hardware Setup

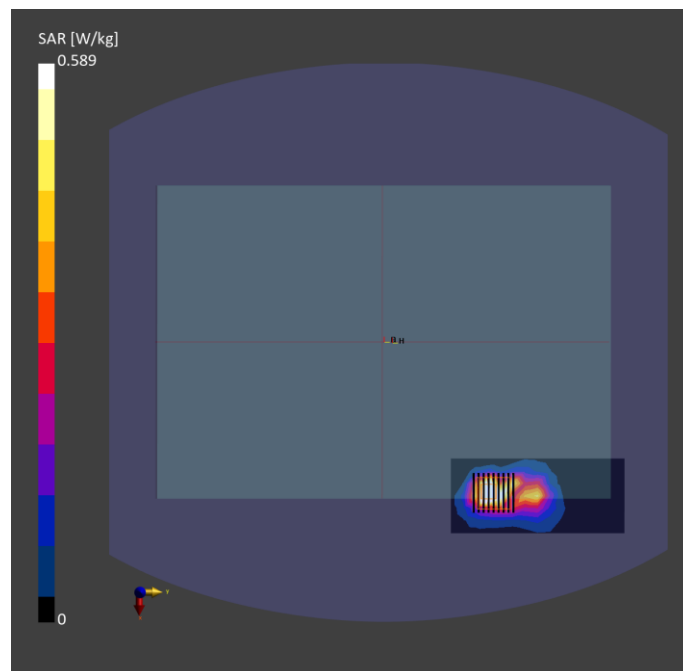
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 119.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.676	0.724
psSAR-10g [W/kg]	0.210	0.208
psAPD (1.0 cm ² , sq) [W/m ²]		7.24
psAPD (4.0 cm ² , sq) [W/m ²]		4.78
Power Drift [dB]		-0.11
TSL Correction	Positive only	Positive only
M2 / M1 [%]		48.9
Dist 3dB Peak [mm]		6.1



Test Date : 2024-05-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.7 °C

Test Mode**9_UNII-8_802.11be EHT320_Bottom of laptop_0 mm_Ch191_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406SA	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	U-NII-8	WLAN, 11026 - AAA	6905.000, 191	5.0	6.43	33.7

Hardware Setup

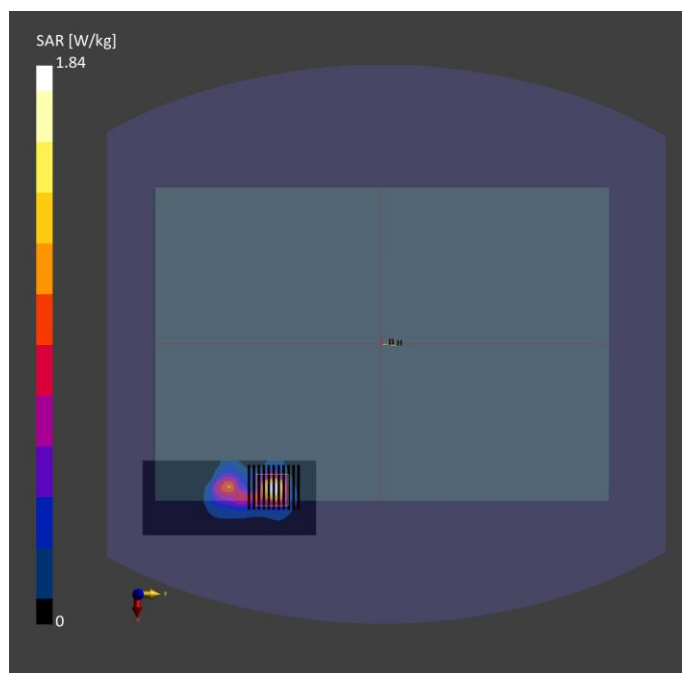
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 119.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.592	0.627
psSAR-10g [W/kg]	0.173	0.171
psAPD (1.0 cm ² , sq) [W/m ²]		6.27
psAPD (4.0 cm ² , sq) [W/m ²]		3.96
Power Drift [dB]		0.11
TSL Correction	Positive only	Positive only
M2 / M1 [%]		47.5
Dist 3dB Peak [mm]		6.7



Test Date : 2024-05-14 | Ambient Temp : 22.5 °C

Test Mode**10_UNII-7_802.11be EHT320_Bottom of laptop_0mm_Ch159_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	UX5406SA	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-7	WLAN, 10755 - AAC	6745.0, 159	1.0

Hardware Setup

Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV3 - SN9403_F1-55GHz / 2023-12-05	DAE4 Sn1741 / 2023-08-23

Scan Setup

	5G Scan
Grid Extents [mm]	98.0 x 98.0
Grid Steps [mm]	0.0509 x 0.0509
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	3.75
psPD tot+ [W/m ²]	6.22
psPD mod+ [W/m ²]	8.02
E max [V/m]	93.9
Power Drift [dB]	-0.01

