
Appendix C – Highest Test Plots

Test Date : 2024-08-15 | Ambient Temp : 23.1 °C | Tissue Temp : 22.8 °C

Test Mode**1_WLAN2.4G_802.11b_Bottom of laptop_0 mm_Ch13_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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	2472.000, 13	7.25	1.79	39.0

Hardware Setup

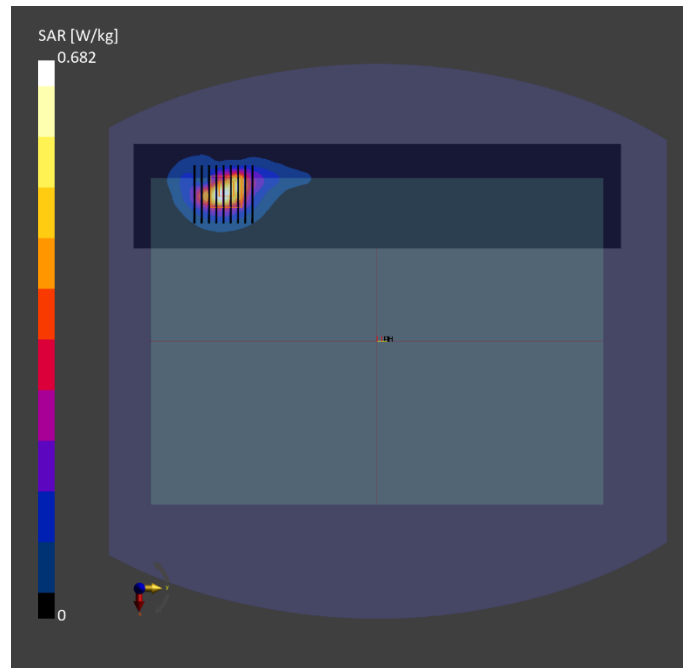
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 336.0	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]	0.352	0.400
psSAR-10g [W/kg]	0.167	0.172
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only
M2 / M1 [%]		45.5
Dist 3dB Peak [mm]		6.8



Test Date : 2024-08-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.4 °C

Test Mode**2_WLAN5.3G_802.11ac VHT160_Bottom of laptop_0 mm_Ch50_Ant 0+1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAE	5250.000, 50	5.56	4.54	35.8

Hardware Setup

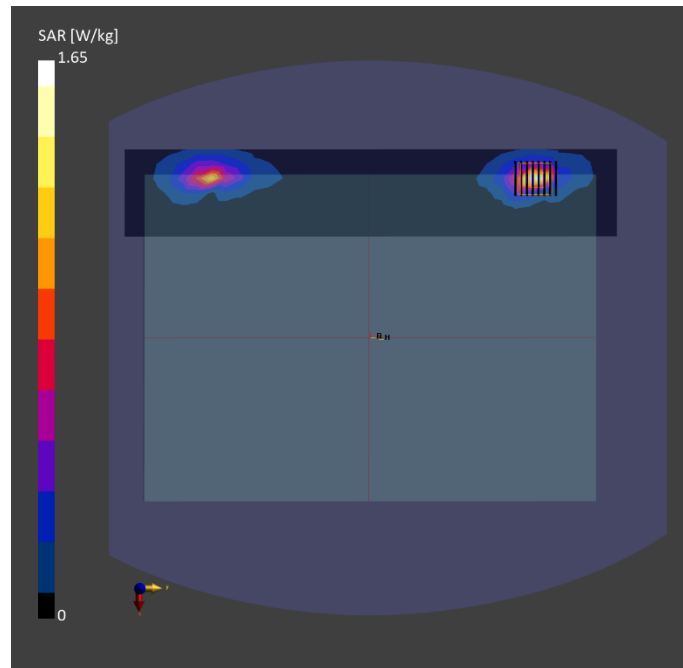
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 340.0	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]	0.612	0.635
psSAR-10g [W/kg]	0.191	0.189
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only
M2 / M1 [%]		65.2
Dist 3dB Peak [mm]		5.6



Test Date : 2024-08-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.4 °C

Test Mode**3_WLAN5.6G_802.11ac VHT160_Front Edge of laptop_0 mm_Ch114_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAE	5570.000, 114	5.07	4.89	35.3

Hardware Setup

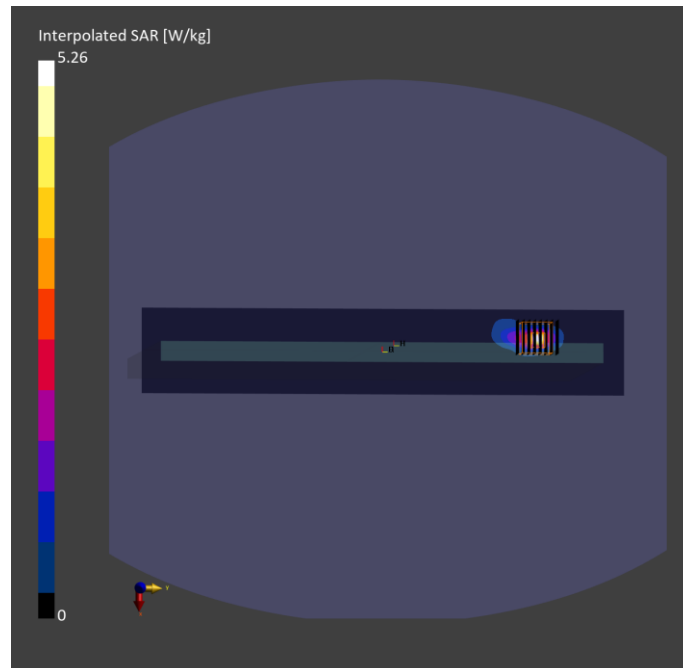
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 340.0	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]	0.777	1.01
psSAR-10g [W/kg]	0.202	0.249
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only
M2 / M1 [%]		56.3
Dist 3dB Peak [mm]		5.5



Test Date : 2024-08-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.4 °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	S5406S	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 - AAE	5815.000, 163	5.01	5.16	34.9

Hardware Setup

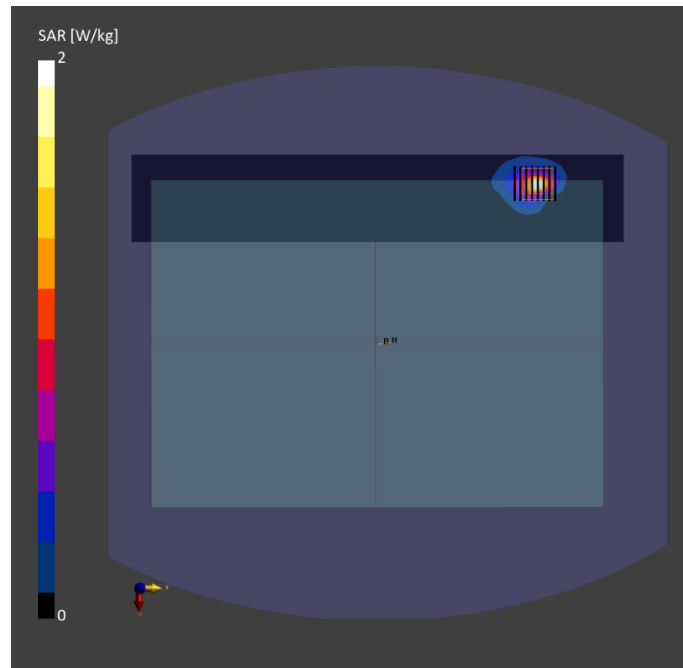
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 340.0	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]	0.661	0.725
psSAR-10g [W/kg]	0.192	0.209
Power Drift [dB]		0.04
TSL Correction	Positive only	Positive only
M2 / M1 [%]		58.0
Dist 3dB Peak [mm]		5.8



Test Date : 2024-08-13 | Ambient Temp : 23.1 °C | Tissue Temp : 22.8 °C

Test Mode**6_U-NII 8_802.11be EHT320_Bottom of laptop_0 mm_Ch191_Ant 0+1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAB	6905.000, 191	5.25	6.32	32.7

Hardware Setup

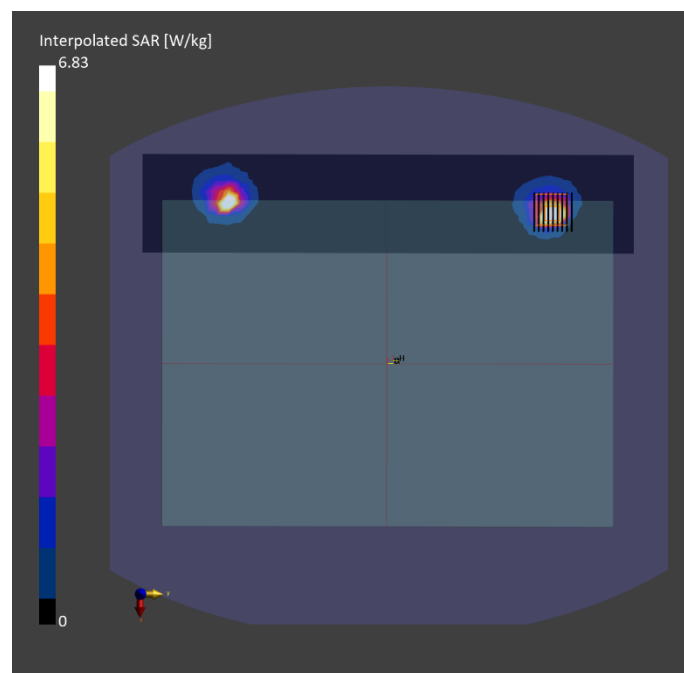
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1669 / 2024-05-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	59.5 x 340.0	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]	1.03	1.14
psSAR-10g [W/kg]	0.278	0.267
psAPD (1.0 cm ² , sq) [W/m ²]		11.39
psAPD (4.0 cm ² , sq) [W/m ²]		6.53
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only
M2 / M1 [%]		48.3
Dist 3dB Peak [mm]		4.8



Test Date : 2024-08-15 | Ambient Temp : 23.1 °C | Tissue Temp : 22.8 °C

Test Mode**7_Bluetooth_GFSK_Bottom of laptop_0 mm_Ch39_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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	2441.000, 39	7.25	1.77	39.0

Hardware Setup

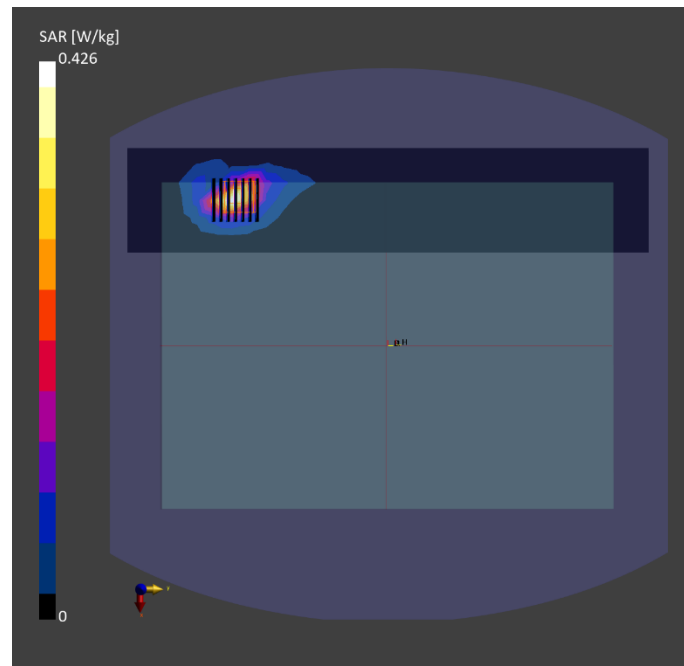
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 348.0	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]	0.317	0.336
psSAR-10g [W/kg]	0.147	0.145
Power Drift [dB]		-0.11
TSL Correction	Positive only	Positive only
M2 / M1 [%]		44.7
Dist 3dB Peak [mm]		6.4



Test Date : 2024-08-15 | Ambient Temp : 23.1 °C | Tissue Temp : 22.8 °C

Test Mode**8_WLAN2.4G_802.11b_Top Side of keyboard_0 mm_Ch11_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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	2462.000, 11	7.25	1.79	39.0

Hardware Setup

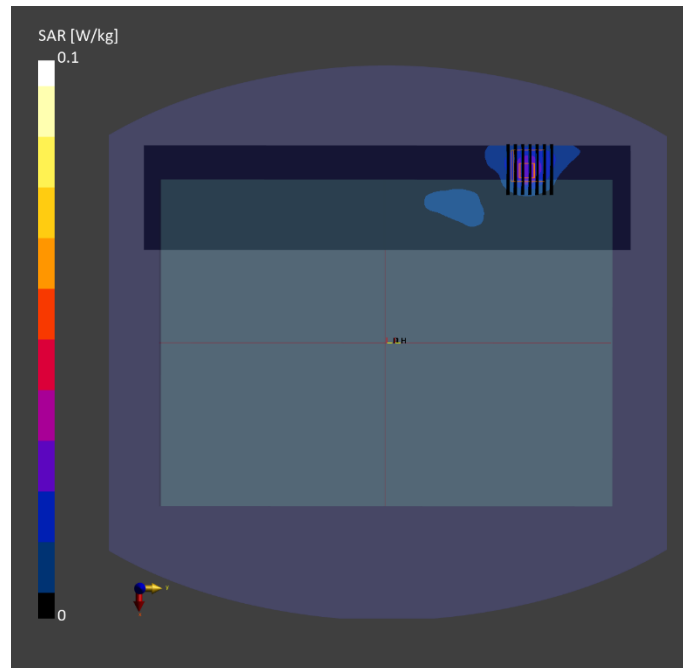
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 336.0	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]	0.026	0.029
psSAR-10g [W/kg]	0.014	0.014
Power Drift [dB]		0.17
TSL Correction	Positive only	Positive only
M2 / M1 [%]		49.5
Dist 3dB Peak [mm]		9.1



Test Date : 2024-08-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.4 °C

Test Mode**9_WLAN5.3G_802.11ac VHT160_Top Side of keyboard_0 mm_Ch50_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAE	5250.000, 50	5.56	4.54	35.8

Hardware Setup

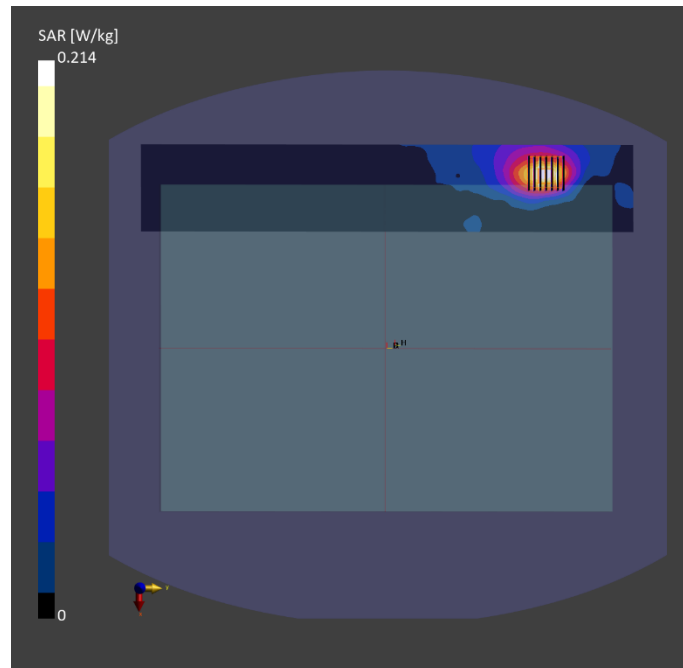
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 340.0	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]	0.149	0.155
psSAR-10g [W/kg]	0.058	0.063
Power Drift [dB]		-0.15
TSL Correction	Positive only	Positive only
M2 / M1 [%]		63.3
Dist 3dB Peak [mm]		8.4



Test Date : 2024-08-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.4 °C

Test Mode**10_WLAN5.6G_802.11ac VHT160_Top Side of keyboard_0 mm_Ch114_Ant 0+1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAE	5570.000, 114	5.07	4.89	35.3

Hardware Setup

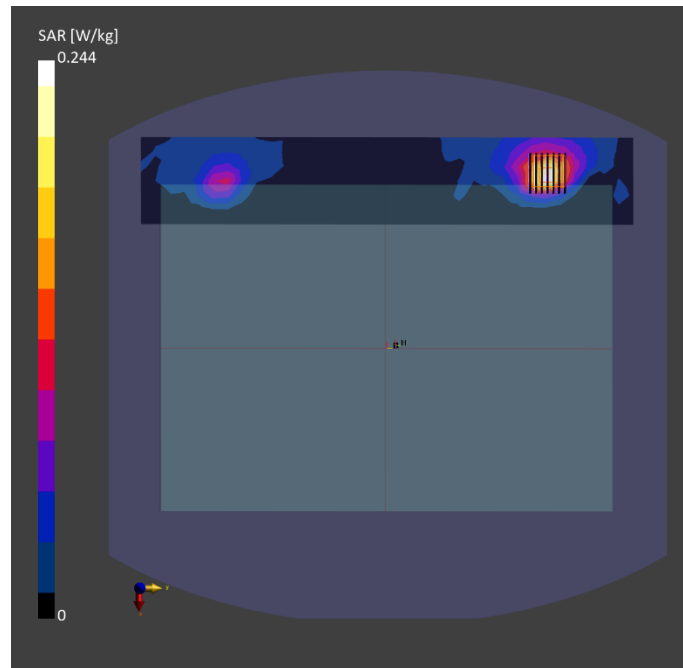
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 340.0	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]	0.184	0.204
psSAR-10g [W/kg]	0.071	0.078
Power Drift [dB]		0.04
TSL Correction	Positive only	Positive only
M2 / M1 [%]		58.9
Dist 3dB Peak [mm]		7.9



Test Date : 2024-08-16 | Ambient Temp : 22.9 °C | Tissue Temp : 22.4 °C

Test Mode**12_WLAN5.8G_802.11ac VHT160_Top Side of keyboard_0 mm_Ch163_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAE	5815.000, 163	5.01	5.16	34.9

Hardware Setup

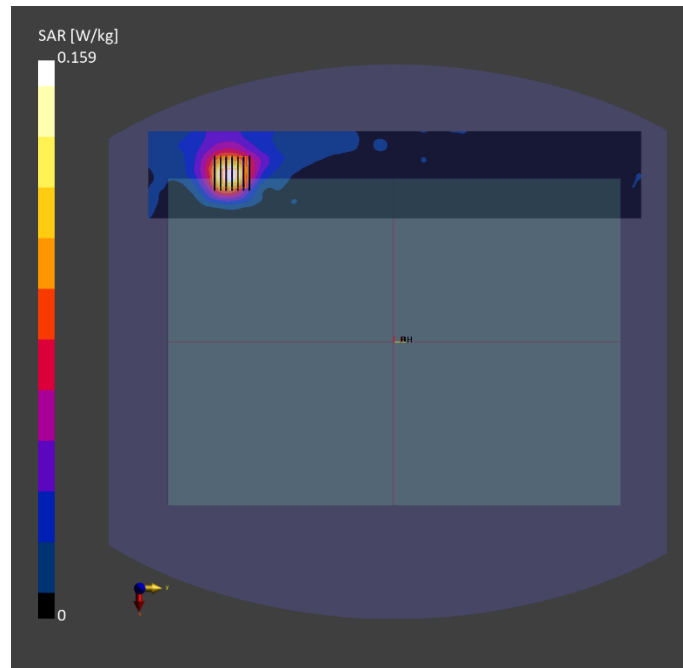
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 340.0	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]	0.121	0.127
psSAR-10g [W/kg]	0.046	0.052
Power Drift [dB]		0.09
TSL Correction	Positive only	Positive only
M2 / M1 [%]		57.8
Dist 3dB Peak [mm]		9.0



Test Date : 2024-08-13 | Ambient Temp : 23.1 °C | Tissue Temp : 22.8 °C

Test Mode**13_U-NII 5_802.11be EHT320_Top Side of keyboard_0 mm_Ch63_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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 - AAB	6265.000, 63	5.25	5.58	33.8

Hardware Setup

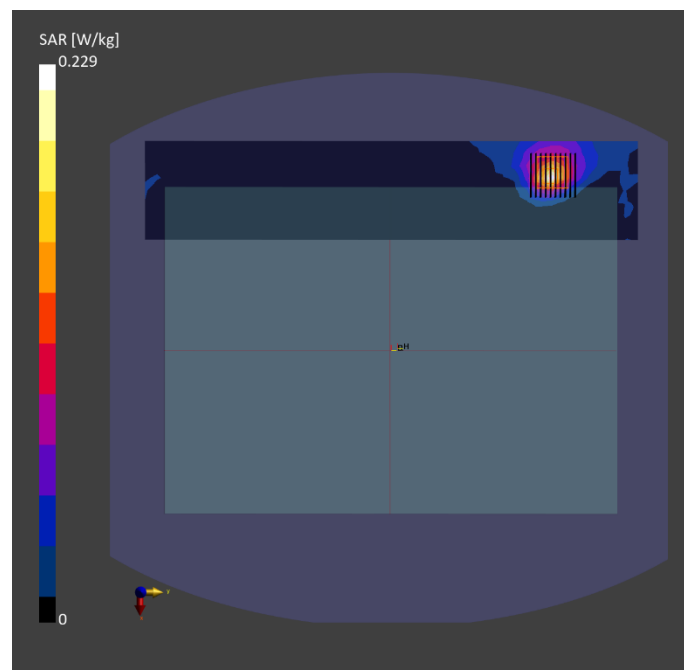
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	59.5 x 340.0	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]	0.165	0.163
psSAR-10g [W/kg]	0.059	0.056
psAPD (1.0 cm ² , sq) [W/m ²]		1.63
psAPD (4.0 cm ² , sq) [W/m ²]		1.26
Power Drift [dB]		-0.04
TSL Correction	Positive only	Positive only
M2 / M1 [%]		51.1
Dist 3dB Peak [mm]		7.5



Test Date : 2024-08-15 | Ambient Temp : 23.1 °C | Tissue Temp : 22.8 °C

Test Mode**14_Bluetooth_GFSK_Top Side of keyboard_0 mm_Ch39_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	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	2441.000, 39	7.25	1.77	39.0

Hardware Setup

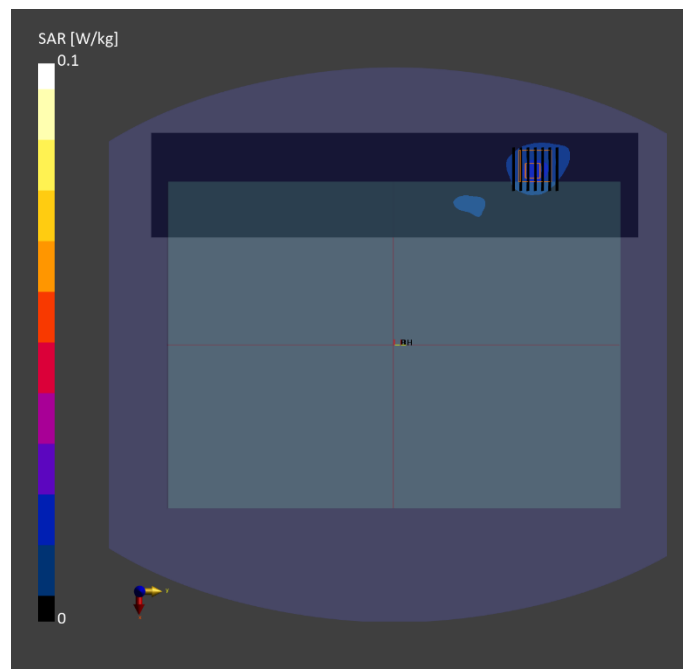
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 336.0	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]	0.017	0.017
psSAR-10g [W/kg]	0.009	0.009
Power Drift [dB]		-0.13
TSL Correction	Positive only	Positive only
M2 / M1 [%]		45.2
Dist 3dB Peak [mm]		8.1



Test Date : 2024-08-14 | Ambient Temp : 23.1 °C

Test Mode**15_U-NII 8_802.11be EHT320_Bottom of laptop_0 mm_Ch191_Ant 0+1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-8	WLAN, 10755 - AAC	6905.000, 191	1.0

Hardware Setup

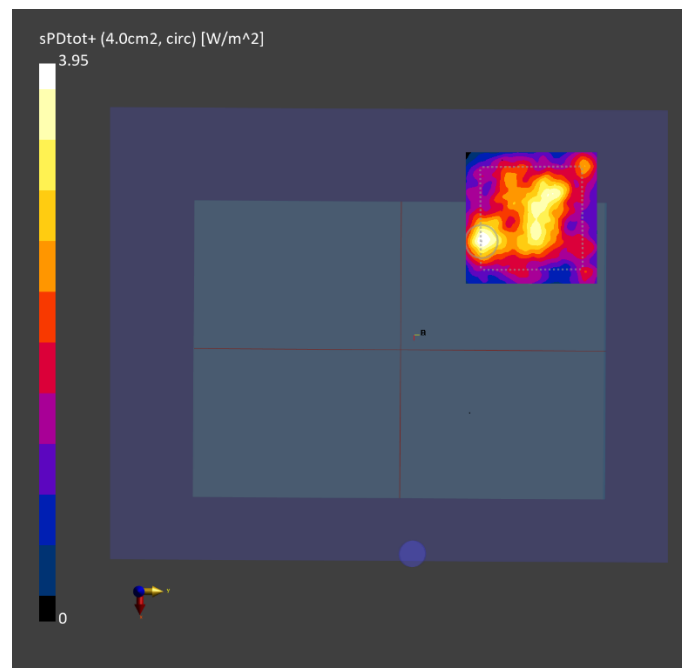
Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2023-08-18	DAE4 Sn1743 / 2023-08-17

Scan Setup

	5G Scan
Grid Extents [mm]	89.0 x 89.0
Grid Steps [mm]	0.0562 x 0.0562
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	2.93
psPD tot+ [W/m ²]	3.95
psPD mod+ [W/m ²]	5.20
E max [V/m]	41.4
Power Drift [dB]	-0.03



Test Date : 2024-08-14 | Ambient Temp : 22.4 °C

Test Mode**16_U-NII 5_802.11be EHT320_Top Side of keyboard_0mm_Ch63_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	S5406S	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-5	WLAN, 10755 - AAC	6265.0, 63	1.0

Hardware Setup

Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2023-08-18	DAE4 Sn1743 / 2023-08-17

Scan Setup

	5G Scan
Grid Extents [mm]	96.0 x 96.0
Grid Steps [mm]	0.0522 x 0.0522
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	3.29
psPD tot+ [W/m ²]	3.75
psPD mod+ [W/m ²]	4.17
E max [V/m]	42.7
Power Drift [dB]	0.16

