
Appendix C – Highest Test Plots

Test Date : 2024-11-19 | Ambient Temp : 22.4 °C | Tissue Temp : 22.0 °C

Test Mode**1_WLAN2.4G_802.11b_Bottom of laptop_0 mm_Ch1_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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	2412.000, 1	7.25	1.80	40.2

Hardware Setup

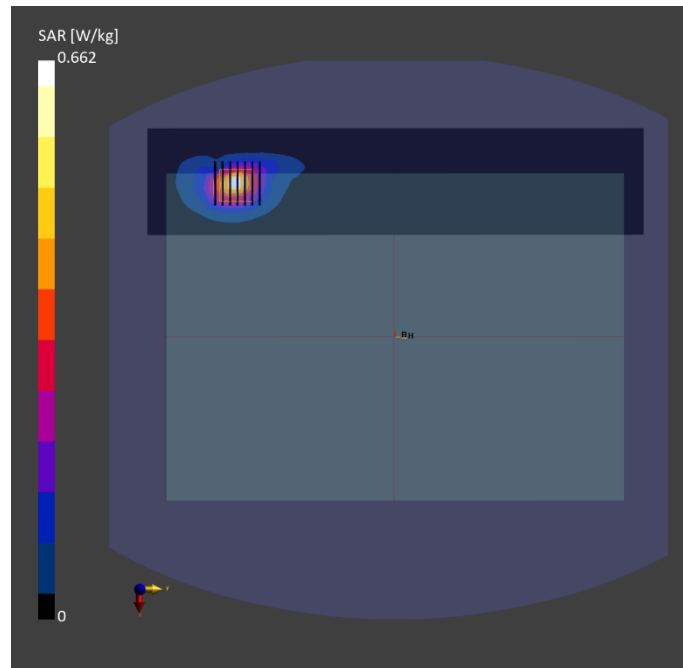
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

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]	0.552	0.574
psSAR-10g [W/kg]	0.245	0.246
Power Drift [dB]		-0.03
TSL Correction	Positive only	Positive only
M2 / M1 [%]		40.0
Dist 3dB Peak [mm]		7.1



Test Date : 2024-11-20 | Ambient Temp : 22.5 °C | Tissue Temp : 22.1 °C

Test Mode**2_WLAN5.3G_802.11ac VHT160_Front Edge of laptop_0 mm_Ch50_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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	4.53	35.4

Hardware Setup

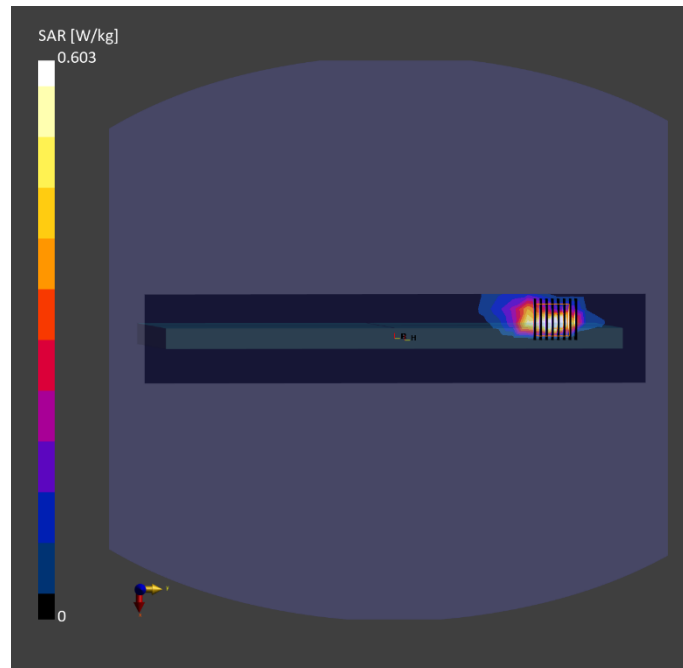
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

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]	0.517	0.613
psSAR-10g [W/kg]	0.163	0.176
Power Drift [dB]		-0.10
TSL Correction	Positive only	Positive only
M2 / M1 [%]		58.2
Dist 3dB Peak [mm]		4.8



Test Date : 2024-11-20 | Ambient Temp : 22.5 °C | Tissue Temp : 22.1 °C

Test Mode**3_WLAN5.6G_802.11ac VHT160_Bottom of laptop_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	M5406N	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	4.87	34.9

Hardware Setup

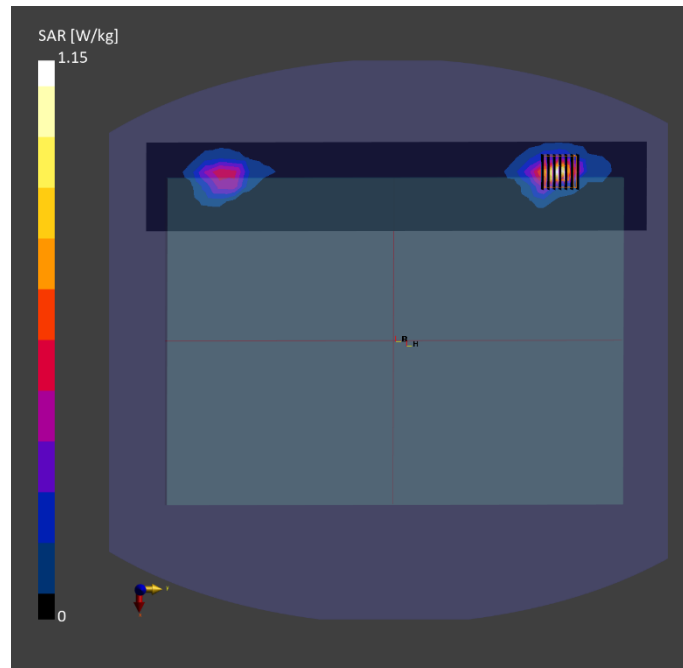
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 330.0	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]	0.720	0.831
psSAR-10g [W/kg]	0.225	0.246
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only
M2 / M1 [%]		56.9
Dist 3dB Peak [mm]		5.5



Test Date : 2024-11-20 | Ambient Temp : 22.5 °C | Tissue Temp : 22.1 °C

Test Mode**4_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	M5406N	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	5.14	34.4

Hardware Setup

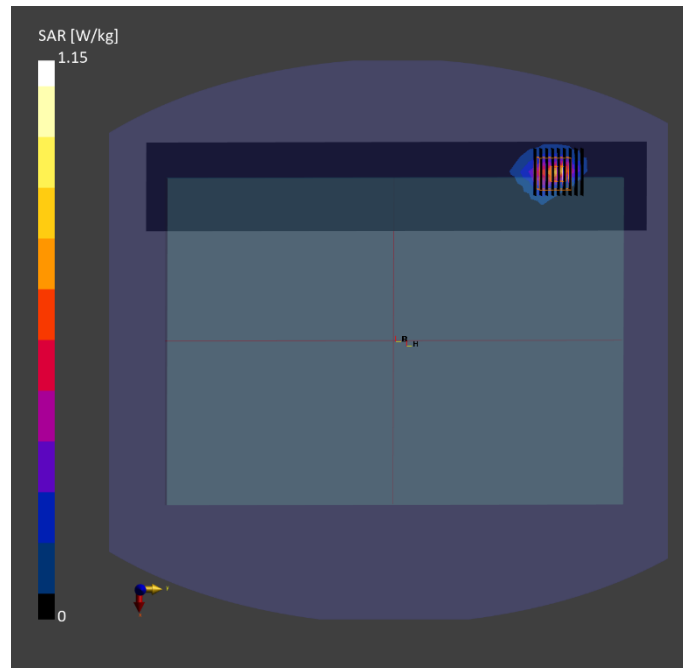
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 330.0	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]	0.569	0.647
psSAR-10g [W/kg]	0.179	0.196
Power Drift [dB]		0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		56.2
Dist 3dB Peak [mm]		4.9



Test Date : 2024-11-19 | Ambient Temp : 22.4 °C | Tissue Temp : 22.0 °C

Test Mode**7_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	M5406N	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	7.25	1.79	40.2

Hardware Setup

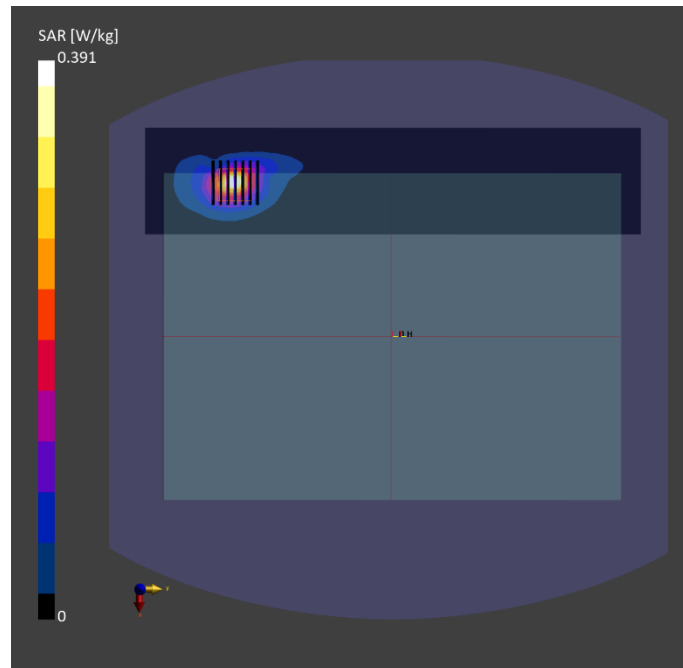
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

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]	0.204	0.213
psSAR-10g [W/kg]	0.091	0.092
Power Drift [dB]		-0.07
TSL Correction	Positive only	Positive only
M2 / M1 [%]		39.7
Dist 3dB Peak [mm]		5.0



Test Date : 2024-11-19 | Ambient Temp : 22.4 °C | Tissue Temp : 22.0 °C

Test Mode**8_U-NII 7_802.11ax HE160_Bottom of laptop_0 mm_Ch175_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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, 10755 - AAC	6825.000, 175	5.25	6.33	32.8

Hardware Setup

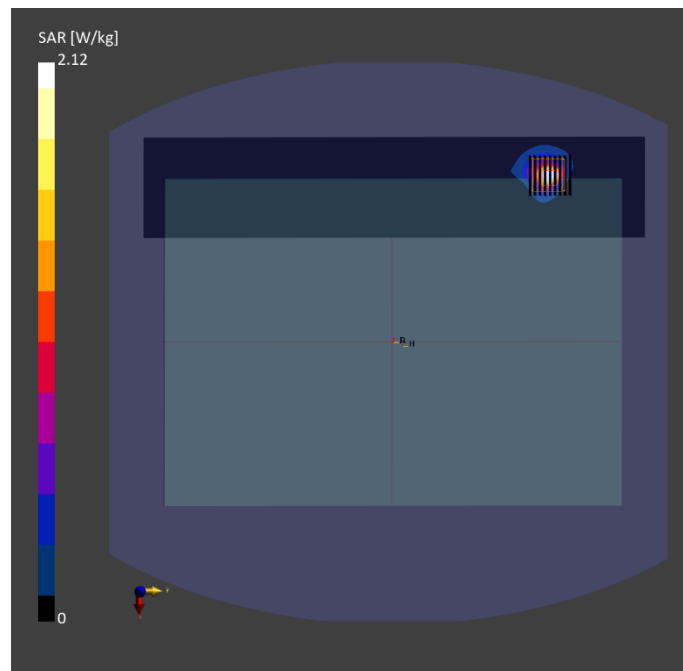
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 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]	0.556	0.663
psSAR-10g [W/kg]	0.156	0.172
psAPD (1.0 cm ² , sq) [W/m ²]		6.63
psAPD (4.0 cm ² , sq) [W/m ²]		3.98
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only
M2 / M1 [%]		48.4
Dist 3dB Peak [mm]		4.4



Test Date : 2024-11-19 | Ambient Temp : 22.4 °C | Tissue Temp : 22.0 °C

Test Mode**9_WLAN2.4G_802.11b_Top Side of keyboard_0 mm_Ch1_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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	2412.000, 1	7.25	1.80	40.2

Hardware Setup

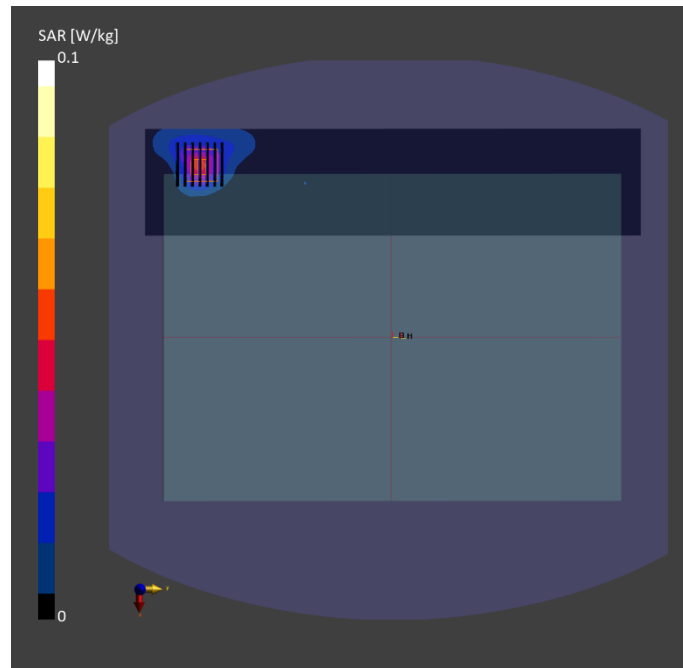
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

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]	0.042	0.043
psSAR-10g [W/kg]	0.020	0.019
Power Drift [dB]		-0.03
TSL Correction	Positive only	Positive only
M2 / M1 [%]		49.6
Dist 3dB Peak [mm]		9.0



Test Date : 2024-11-20 | Ambient Temp : 22.5 °C | Tissue Temp : 22.1 °C

Test Mode**10_WLAN5.3G_802.11ac VHT160_Top Side of keyboard_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	M5406N	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	4.53	35.4

Hardware Setup

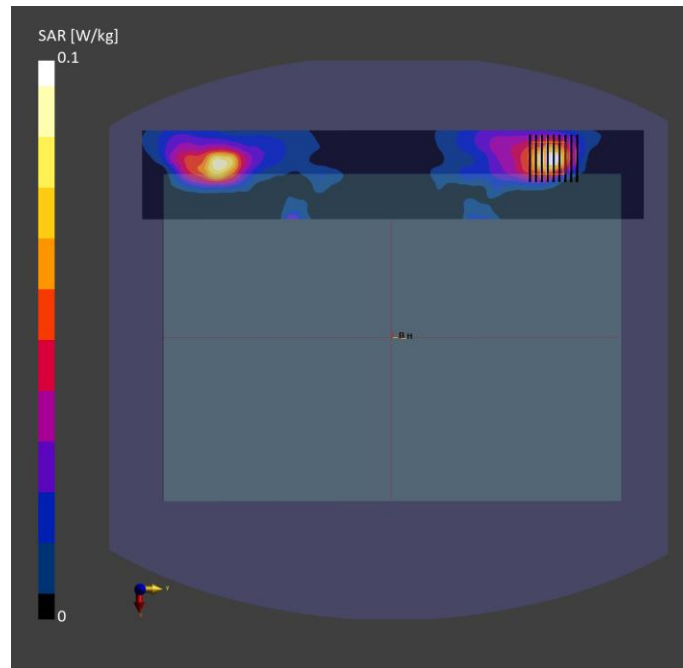
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 330.0	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]	0.101	0.101
psSAR-10g [W/kg]	0.039	0.035
Power Drift [dB]		-0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		60.7
Dist 3dB Peak [mm]		8.1



Test Date : 2024-11-20 | Ambient Temp : 22.5 °C | Tissue Temp : 22.1 °C

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

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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	4.87	34.9

Hardware Setup

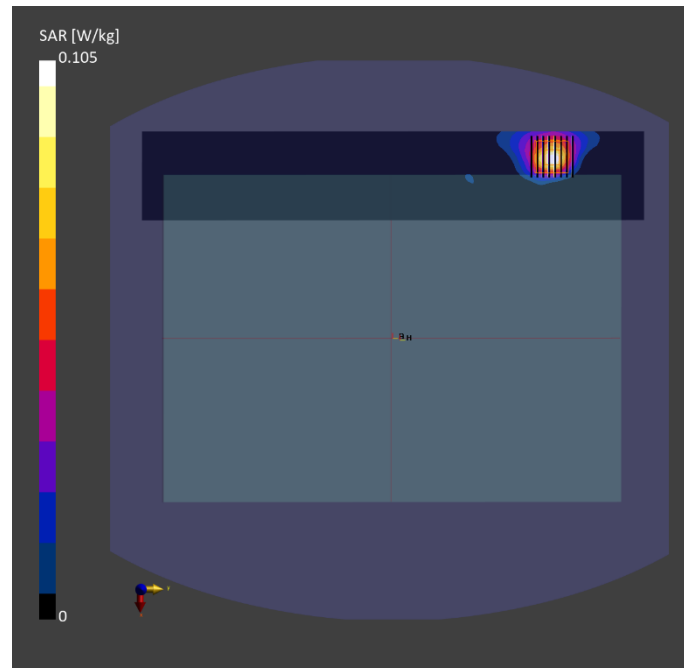
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 330.0	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]	0.104	0.113
psSAR-10g [W/kg]	0.038	0.038
Power Drift [dB]		-0.09
TSL Correction	Positive only	Positive only
M2 / M1 [%]		56.5
Dist 3dB Peak [mm]		8.9



Test Date : 2024-11-20 | Ambient Temp : 22.5 °C | Tissue Temp : 22.1 °C

Test Mode**12_WLAN5.8G_802.11ac VHT160_Top Side of keyboard_0 mm_Ch163_Ant 0+1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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	5.14	34.4

Hardware Setup

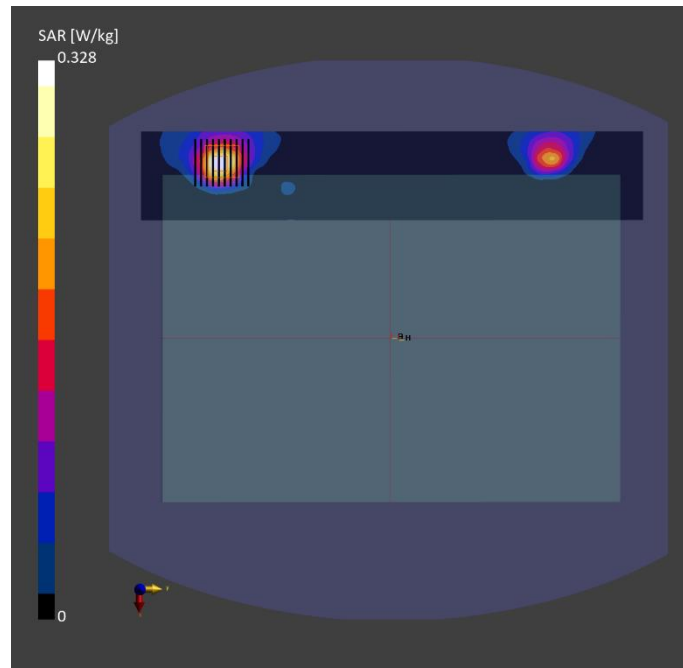
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 330.0	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]	0.126	0.130
psSAR-10g [W/kg]	0.048	0.045
Power Drift [dB]		0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		55.6
Dist 3dB Peak [mm]		8.7



Test Date : 2024-11-19 | Ambient Temp : 22.4 °C | Tissue Temp : 22.0 °C

Test Mode**15_Bluetooth_GFSK_Top Side of keyboard_0 mm_Ch0_Ant 1****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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	7.25	1.79	40.2

Hardware Setup

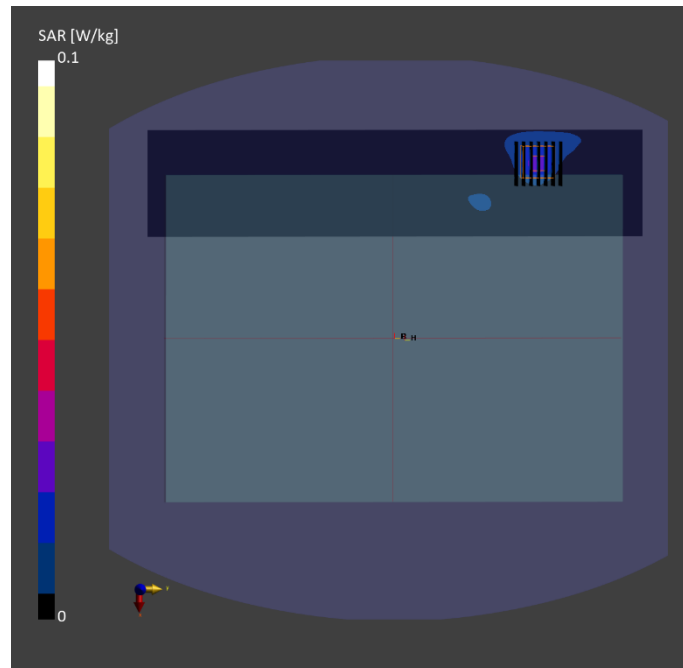
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

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]	0.024	0.022
psSAR-10g [W/kg]	0.011	0.01
Power Drift [dB]		-0.10
TSL Correction	Positive only	Positive only
M2 / M1 [%]		41.7
Dist 3dB Peak [mm]		9.9



Test Date : 2024-11-19 | Ambient Temp : 22.4 °C | Tissue Temp : 22.0 °C

Test Mode**16_U-NII 8_802.11ax HE160_Top Side of keyboard_0 mm_Ch207_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	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, 10755 - AAC	6985.000, 207	5.25	6.52	32.6

Hardware Setup

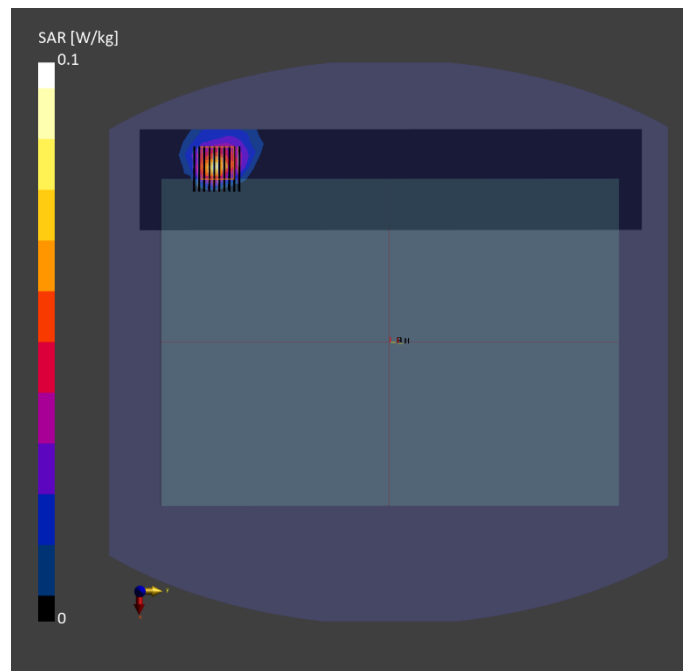
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1743 / 2024-09-19

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 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]	0.070	0.077
psSAR-10g [W/kg]	0.024	0.027
psAPD (1.0 cm ² , sq) [W/m ²]		0.766
psAPD (4.0 cm ² , sq) [W/m ²]		0.600
Power Drift [dB]		0.10
TSL Correction	Positive only	Positive only
M2 / M1 [%]		45.6
Dist 3dB Peak [mm]		7.6



Test Date : 2024-11-21 | Ambient Temp : 22.5 °C

Test Mode**17_U-NII 7_802.11ax HE160_Bottom of laptop_2mm_Ch175_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-7	WLAN, 10755 - AAC	6825.0, 175	1.0

Hardware Setup

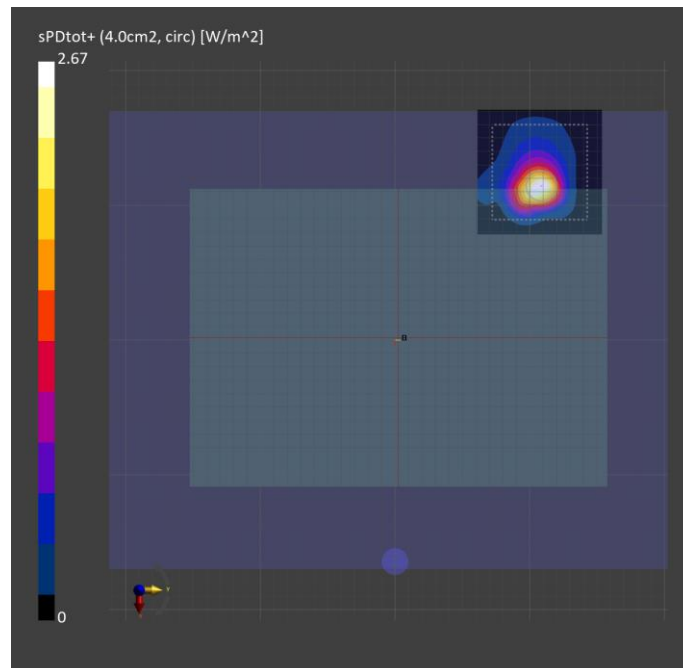
Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2024-09-16	DAE4 Sn1742 / 2024-08-15

Scan Setup

	5G Scan
Grid Extents [mm]	88.0 x 88.0
Grid Steps [mm]	0.0569 x 0.0569
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	1.63
psPD tot+ [W/m ²]	2.67
psPD mod+ [W/m ²]	3.00
Peak PD tot [W/m ²]	5.30
Power Drift [dB]	0.08



Test Date : 2024-11-22 | Ambient Temp : 22.5 °C

Test Mode**18_U-NII 8_802.11ax HE160_Top Side of keyboard_2mm_Ch207_Ant 0****Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	M5406N	A002	Laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-8	WLAN, 10755 - AAC	6985.0, 207	1.0

Hardware Setup

Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2024-09-16	DAE4 Sn1742 / 2024-08-15

Scan Setup

	5G Scan
Grid Extents [mm]	86.0 x 86.0
Grid Steps [mm]	0.0582 x 0.0582
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	0.235
psPD tot+ [W/m ²]	0.392
psPD mod+ [W/m ²]	0.426
Peak PD tot [W/m ²]	0.780
Power Drift [dB]	-0.11

