

## **Appendix C – Highest Test Plots**

Test Date : 2024-03-29 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**1\_WLAN2.4G\_802.11b\_Front Side of laptop\_0mm\_Ch6\_Ant 1**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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	2437.000, 6	7.05	1.81	40.4

**Hardware Setup**

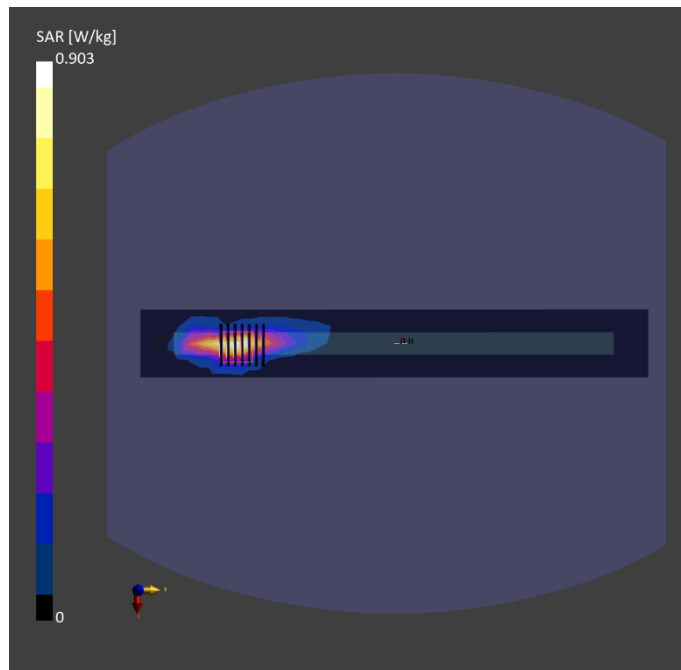
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 360.0	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]	0.680	<b>0.758</b>
psSAR-10g [W/kg]	0.300	<b>0.322</b>
Power Drift [dB]		-0.01
TSL Correction	Positive only	Positive only
M2 / M1 [%]		40.9
Dist 3dB Peak [mm]		5.1



Test Date : 2024-05-16 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**2\_WLAN5.3G\_802.11n\_HT40\_Front Side of laptop\_0mm\_Ch54\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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, 10599 - AAC	5270.000, 54	5.58	4.55	36.5

**Hardware Setup**

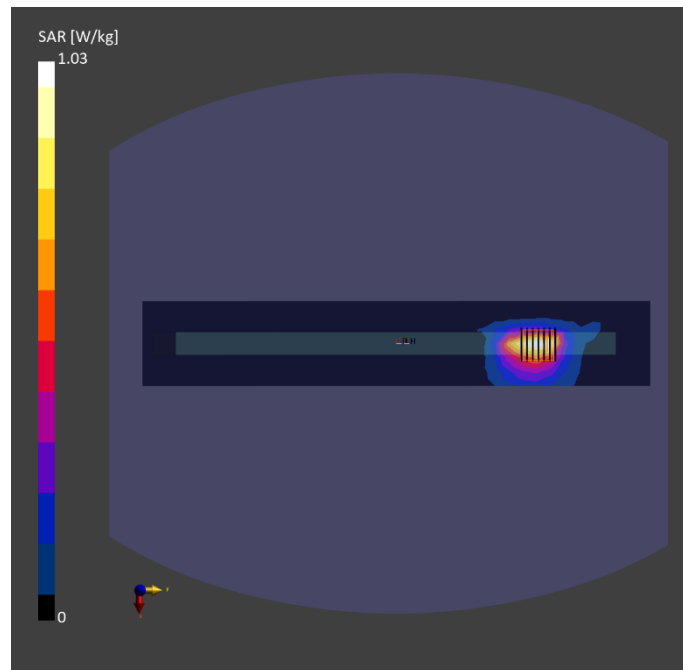
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 360.0	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]	0.752	<b>0.864</b>
psSAR-10g [W/kg]	0.286	<b>0.328</b>
Power Drift [dB]		0.03
TSL Correction	Positive only	Positive only
M2 / M1 [%]		64.9
Dist 3dB Peak [mm]		6.5



Test Date : 2024-05-16 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**3\_WLAN5.6G\_802.11ac VHT80\_Front Side of laptop\_0mm\_Ch106\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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, 10544 - AAC	5530.000, 106	4.83	4.83	36.0

**Hardware Setup**

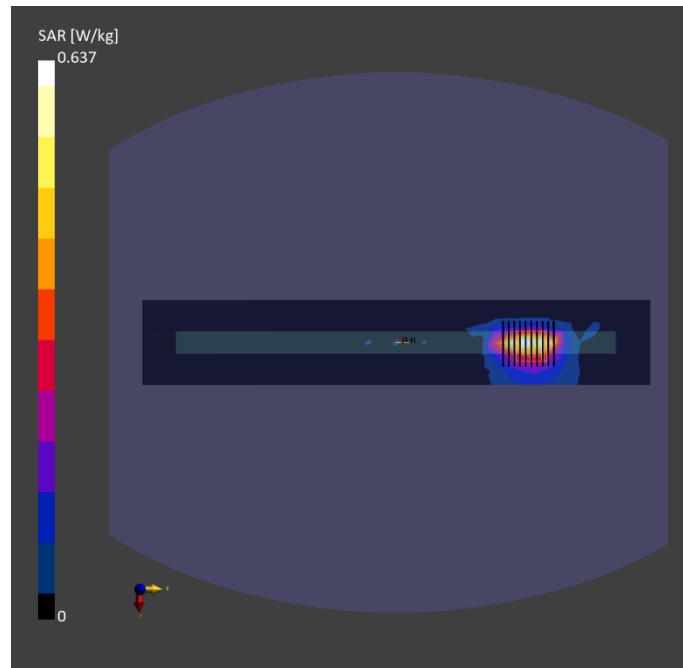
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 360.0	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]	0.453	<b>0.522</b>
psSAR-10g [W/kg]	0.168	<b>0.191</b>
Power Drift [dB]		-0.06
TSL Correction	Positive only	Positive only
M2 / M1 [%]		59.0
Dist 3dB Peak [mm]		5.6



Test Date : 2024-05-16 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**4\_WLAN5.8G\_802.11ac VHT160\_Front Side of laptop\_0mm\_Ch163\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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**

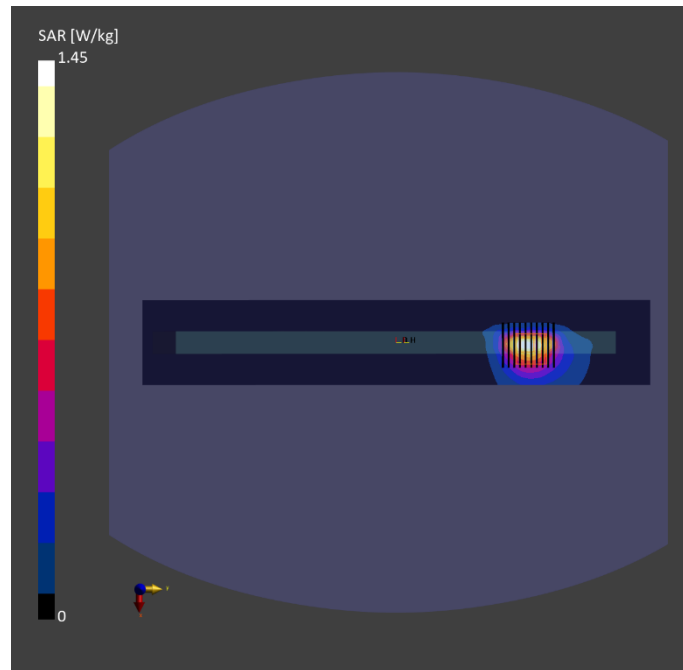
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 360.0	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]	0.557	<b>0.751</b>
psSAR-10g [W/kg]	0.208	<b>0.279</b>
Power Drift [dB]		0.08
TSL Correction	Positive only	Positive only
M2 / M1 [%]		60.5
Dist 3dB Peak [mm]		6.4



Test Date : 2024-03-29 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**6\_UNII-5\_802.11a\_Front Side of laptop\_0mm\_Ch45\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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, 10062 - CAD	6175.000, 45	5.0	5.44	35.0

**Hardware Setup**

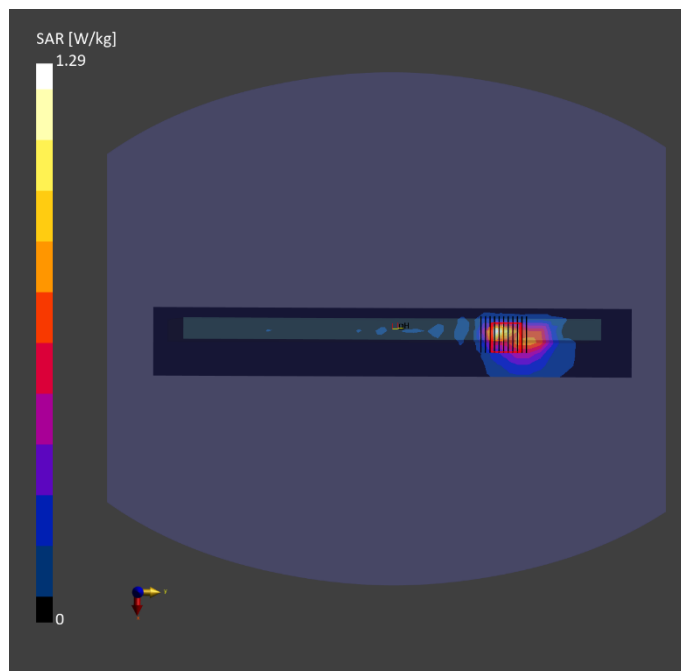
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 357.0	23.8 x 23.8 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]	0.851	<b>0.842</b>
psSAR-10g [W/kg]	0.285	<b>0.286</b>
psAPD (1.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>8.42</b>
psAPD (4.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>6.38</b>
Power Drift [dB]		0.05
TSL Correction	Positive only	Positive only
M2 / M1 [%]		54.7
Dist 3dB Peak [mm]		5.0



Test Date : 2024-03-29 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**7\_UNII-6\_802.11ax HE160\_Front Side of laptop\_0mm\_Ch111\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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, 10755 - AAC	6505.000, 111	5.0	5.91	34.7

**Hardware Setup**

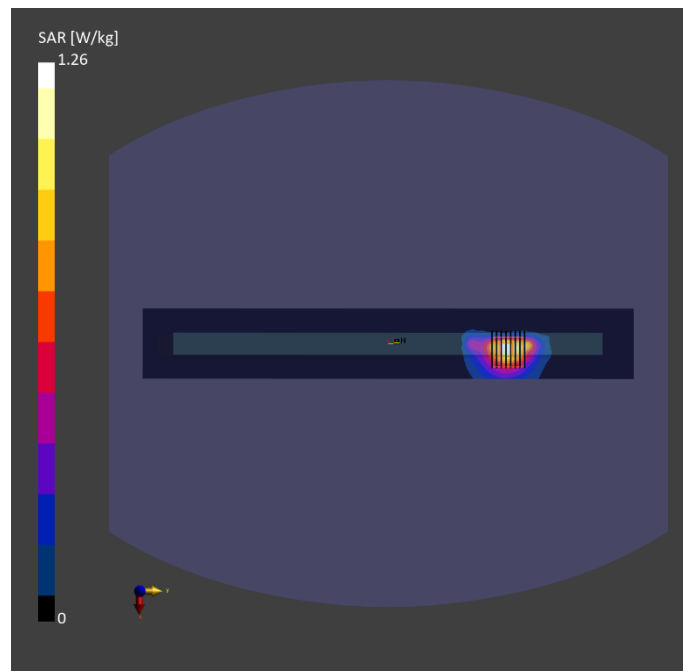
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 357.0	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]	0.435	<b>0.481</b>
psSAR-10g [W/kg]	0.157	<b>0.171</b>
psAPD (1.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>4.81</b>
psAPD (4.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>3.87</b>
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only
M2 / M1 [%]		51.6
Dist 3dB Peak [mm]		6.2



Test Date : 2024-03-29 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**8\_UNII-7\_802.11a\_Front Side of laptop\_0mm\_Ch149\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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, 10062 - CAD	6695.000, 149	5.0	6.23	33.9

**Hardware Setup**

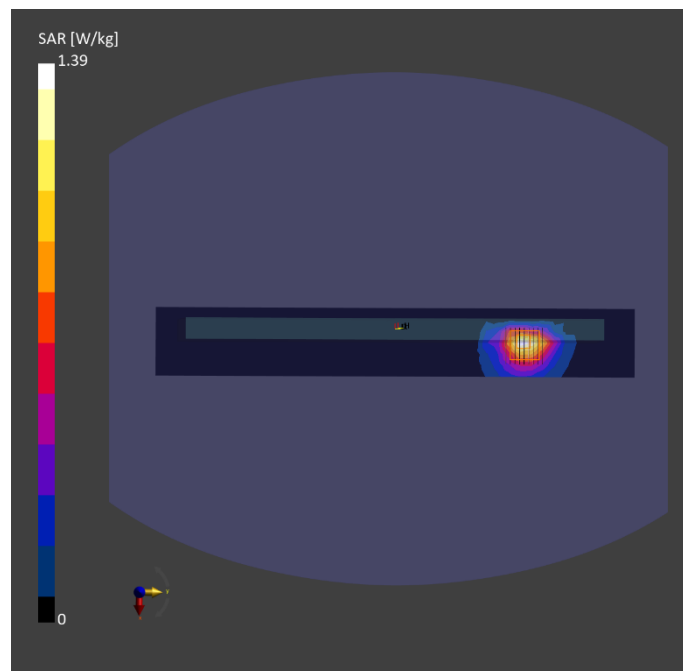
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 357.0	23.8 x 23.8 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]	1.10	<b>1.09</b>
psSAR-10g [W/kg]	0.407	<b>0.381</b>
psAPD (1.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>11.3</b>
psAPD (4.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>9.6</b>
Power Drift [dB]		0.09
TSL Correction	Positive only	Positive only
M2 / M1 [%]		51.0
Dist 3dB Peak [mm]		6.2





Test Date : 2024-03-29 | Ambient Temp : 22.6 °C | Tissue Temp : 22.2 °C

**Test Mode**

**9\_UNII-8\_802.11ax HE160\_Front Side of laptop\_0mm\_Ch207\_Ant 1**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	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	5.0	6.52	33.3

**Hardware Setup**

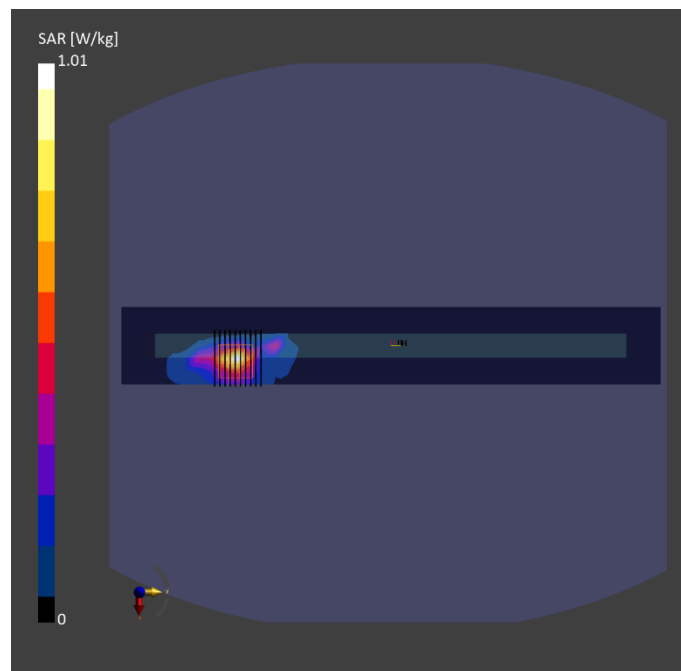
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7737 / 2023-06-05	DAE4 Sn1743 / 2023-08-17

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 357.0	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]	0.275	<b>0.319</b>
psSAR-10g [W/kg]	0.099	<b>0.102</b>
psAPD (1.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>5.64</b>
psAPD (4.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>3.43</b>
Power Drift [dB]		0.17
TSL Correction	Positive only	Positive only
M2 / M1 [%]		48.1
Dist 3dB Peak [mm]		6.2



Test Date : 2024-03-30 | Ambient Temp : 22.6 °C

**Test Mode**

**8\_UNII-7\_802.11a\_Front Side of laptop\_0mm\_Ch149\_\_Ant 0**

**Device Under Test Properties**

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
ASUS	FA401	A002	Laptop

**Exposure Conditions**

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-7	WLAN, 10671 - AAC	6695.0, 149	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]	90.0 x 90.0
Grid Steps [mm]	0.0558 x 0.0558
Sensor Surface [mm]	2.0

**Measurement Results**

	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
psPD n+ [W/m <sup>2</sup> ]	<b>5.28</b>
psPD tot+ [W/m <sup>2</sup> ]	<b>9.56</b>
psPD mod+ [W/m <sup>2</sup> ]	10.2
E max [V/m]	92.9
Power Drift [dB]	0.12

