

## Appendix B – System Check Plots

Test Date : 2025-05-06 | Ambient Temp : 22.0 °C | Tissue Temp : 21.6 °C

### System Performance Check

#### System Performance Check at 2450 MHz

#### Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D2450	1087	17.0

#### Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	2450.000	7.09	1.86	40.1

#### Hardware Setup

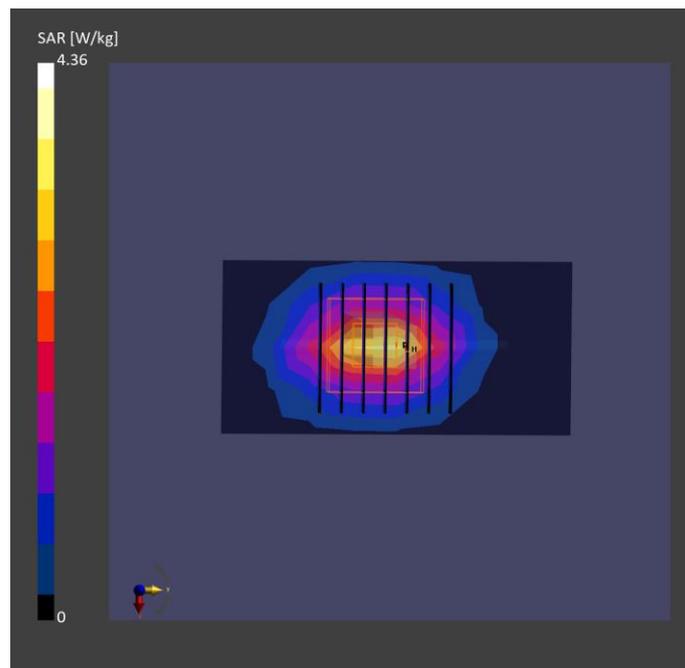
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7756 / 2024-09-04	DAE4 Sn1669 / 2024-05-16
<b>Measurement Software Version</b>		16.4.0.5005	

#### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

#### Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	2.67	<b>2.64</b>
psSAR-10g [W/kg]	1.23	<b>1.23</b>
Power Drift [dB]		0.00
TSL Correction	Positive only	Positive only



Test Date : 2025-05-06 | Ambient Temp : 22.0 °C | Tissue Temp : 21.6 °C

**System Performance Check**

**System Performance Check at 6500 MHz**

**Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D6.5GHz	1081	20.0

**Exposure Conditions**

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	6500.000	4.64	5.96	32.4

**Hardware Setup**

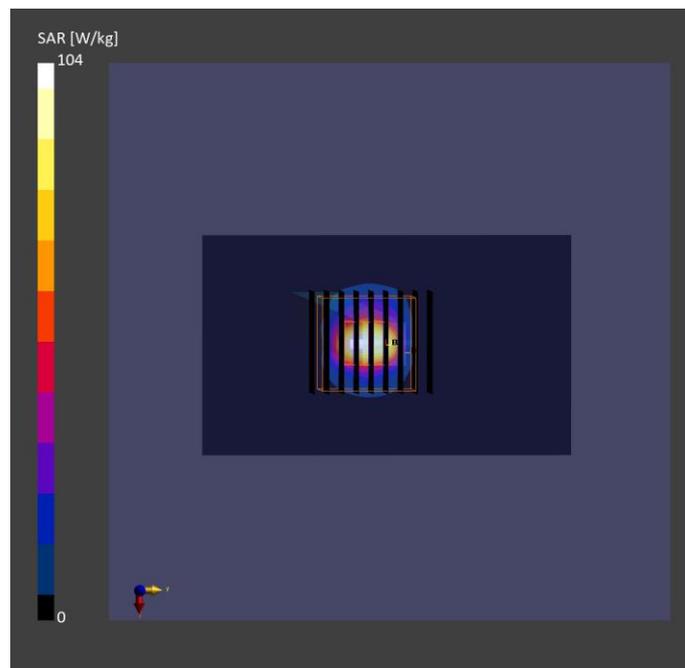
Phantom	Tissue Simulating Liquid	Probe   Calibration Date	DAE   Calibration Date
ELI V8.0 (20deg probe tilt) - 2141	HBBL-600-10000	EX3DV4 - SN7756 / 2024-09-04	DAE4 Sn1669 / 2024-05-16
<b>Measurement Software Version</b>		16.4.0.5005	

**Scan Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	24.1	<b>29.9</b>
psSAR-8g [W/kg]	6.27	<b>6.74</b>
psSAR-10g [W/kg]	5.21	<b>5.58</b>
psAPD (1.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>299</b>
psAPD (4.0 cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		<b>135</b>
Power Drift [dB]		-0.02
TSL Correction	Positive only	Positive only



Test Date : 2025-05-06 | Ambient Temp : 22.2 °C

**System Performance Check**

**System Performance Check at 10 GHz**

**Verification Source Properties**

Manufacturer	Model No.	Serial No.
SPEAG	H10GVx	1060

**Exposure Conditions**

Phantom Section	Group	Frequency [MHz]	Conversion Factor
5G	CW	10000.0	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
Measurement Software Version		V3.2.0.1840	

**Scan Setup**

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [mm]	0.125 x 0.125
Sensor Surface [mm]	10.0

**Measurement Results**

	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
psPD n+ [W/m <sup>2</sup> ]	<b>58.9</b>
psPD tot+ [W/m <sup>2</sup> ]	<b>59.1</b>
psPD mod+ [W/m <sup>2</sup> ]	59.4
E max [V/m]	164
Power Drift [dB]	-0.02

