

Appendix B – System Check Plots

Test Date : 2024-03-25 | Ambient Temp : 22.7 °C | Tissue Temp : 21.2 °C

System Performance Check

System Performance Check_2450 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D2450V2	1087	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	2450.000	7.7	1.79	41.7

Hardware Setup

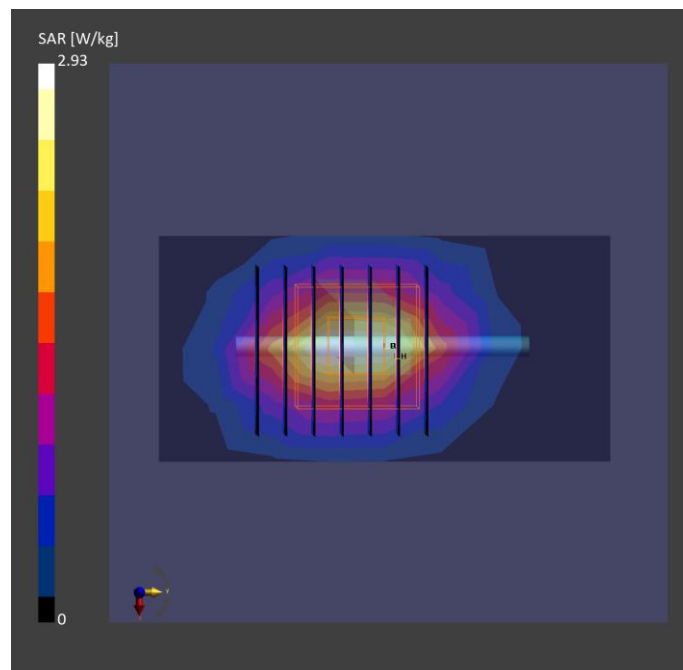
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7756 / 2023-08-24	DAE4 Sn1741 / 2023-08-23

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]	2.52	2.58
psSAR-10g [W/kg]	1.17	1.21
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2024-03-25 | Ambient Temp : 22.6 °C | Tissue Temp : 22.1 °C

System Performance Check

System Performance Check_ 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	5.4	5.92	35.9

Hardware Setup

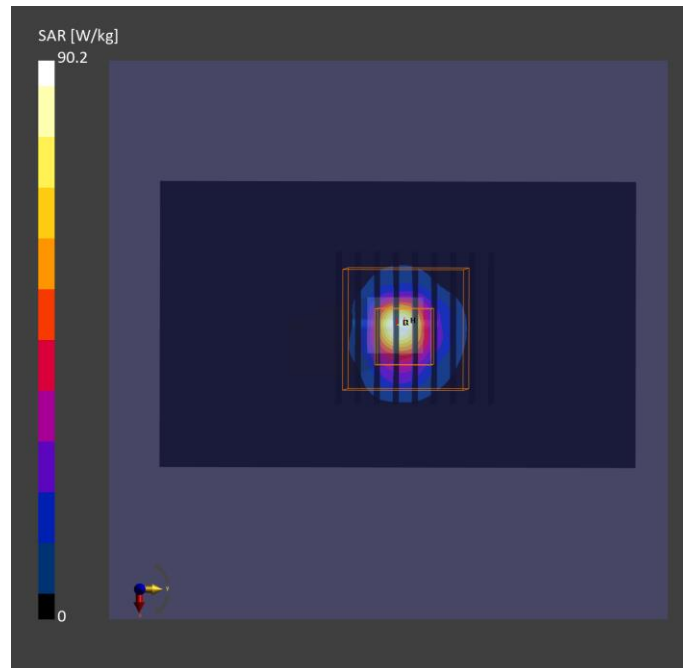
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2179	HBBL-600-10000	EX3DV4 - SN7756 / 2023-08-24	DAE4 Sn1741 / 2023-08-23

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	27.3
psSAR-8g [W/kg]	5.75	6.18
psSAR-10g [W/kg]	4.76	5.08
psAPD (1.0 cm ² , sq) [W/m ²]		271
psAPD (4.0 cm ² , sq) [W/m ²]		124
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2024-03-26 | Ambient Temp : 22.2 °C

System Performance Check

System Performance Check_10GHz

Verification Source Properties

Manufacturer	Model No.	Serial No.
SPEAG	5G Verification Source 10 GHz	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	EUmmWV3 – SN9403_F1-55GHz / 2023-12-05	DAE4 Sn1741 / 2023-08-23

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 ²]	4.00
psPD n+ [W/m ²]	55.3
psPD tot+ [W/m ²]	52.7
psPD mod+ [W/m ²]	53.2
E max [V/m]	150
Power Drift [dB]	0.11

