

Appendix B – System Check Plots

Test Date : 2025-04-25 | Ambient Temp : 22.9 °C | Tissue Temp : 22.0 °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 | 1.88 | 39.8 |

Hardware Setup

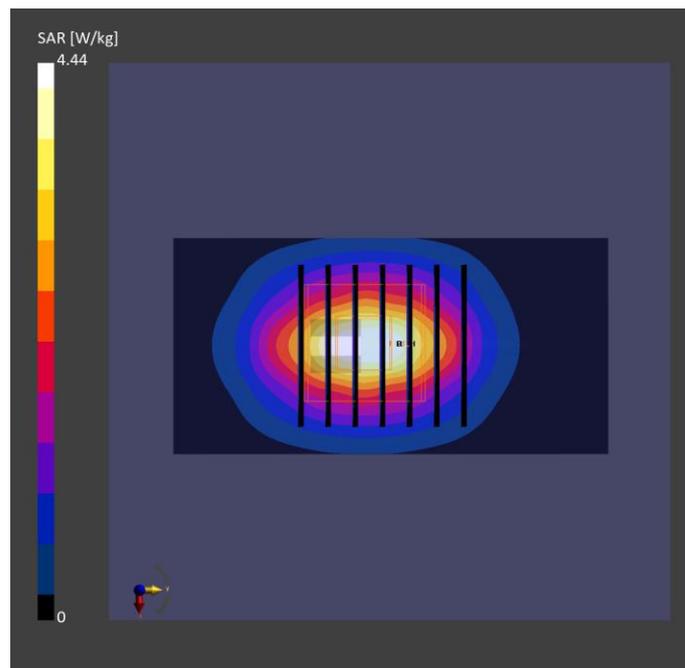
| Phantom | Tissue Simulating Liquid | Probe Calibration Date | DAE Calibration Date |
|-------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2141 | HBBL-600-10000 | EX3DV4 - SN7756 / 2024-09-04 | DAE4 Sn1669 / 2024-05-16 |
| Measurement Software Version | | 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] | 2.73 | 2.70 |
| psSAR-10g [W/kg] | 1.26 | 1.26 |
| Power Drift [dB] | | 0.01 |
| TSL Correction | Positive only | Positive only |



Test Date : 2025-04-25 | Ambient Temp : 22.9 °C | Tissue Temp : 22.0 °C

System Performance Check

System Performance Check at 5250 MHz

Verification Source Properties

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG | D5GHz | 1358 | 17.0 |

Exposure Conditions

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat | CW | 5250.000 | 5.27 | 4.61 | 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 - SN7756 / 2024-09-04 | DAE4 Sn1669 / 2024-05-16 |
| Measurement Software Version | | 16.4.0.5005 | |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 40.0 x 80.0 | 22.0 x 22.0 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] | 3.57 | 3.95 |
| psSAR-10g [W/kg] | 1.08 | 1.13 |
| Power Drift [dB] | | -0.04 |
| TSL Correction | Positive only | Positive only |

