

# Appendix A

|                            |
|----------------------------|
| System Check 6500 MHz Head |
| System Check 10GHz         |

Summary

|                    |                 |     |             |             |              |               |                |
|--------------------|-----------------|-----|-------------|-------------|--------------|---------------|----------------|
| Dipole             | Frequency [MHz] | TSL | Power [dBm] | Dev. 1g [%] | Dev. 10g [%] | Dev. Peak [%] | Iso. Error [%] |
| D6.5GHzV2 – SN1096 | 6500.0          | HSL | 20.0        | 1.0         | 1.9          | –8.2          | 4.8            |

Exposure Conditions

|                              |                    |         |            |                                 |                   |                        |                  |
|------------------------------|--------------------|---------|------------|---------------------------------|-------------------|------------------------|------------------|
| Phantom Section, TSL         | Test Distance [mm] | Band    | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
| Flat, Head Simulating Liquid | 5                  | CW, 0-- |            | 6500.000, 0                     | 5.45              | 6.11                   | 34.5             |

Hardware Setup

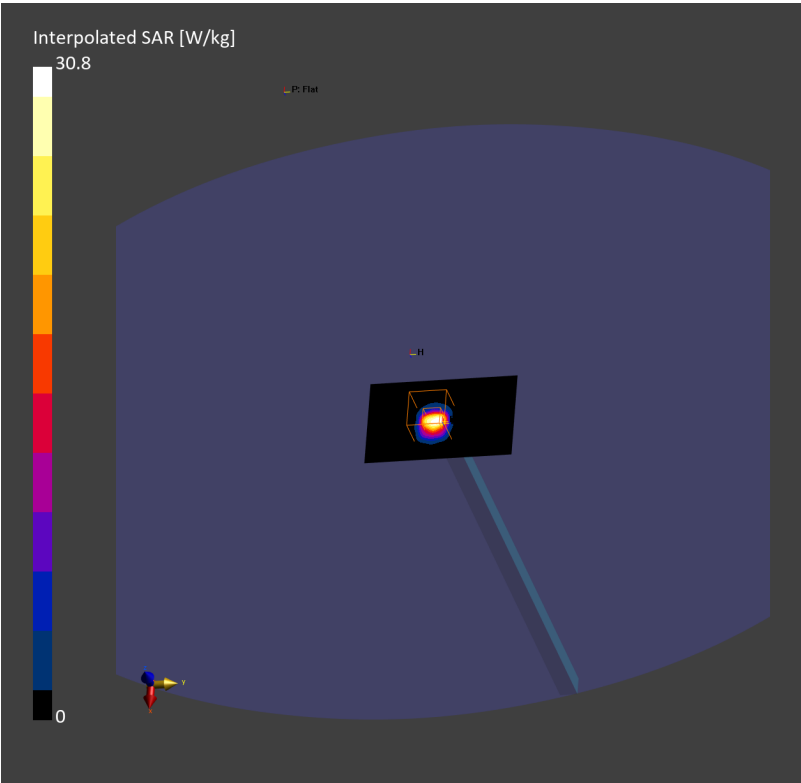
|                                    |           |                             |                           |
|------------------------------------|-----------|-----------------------------|---------------------------|
| Phantom                            | TSL       | Probe, Calibration Date     | DAE, Calibration Date     |
| ELI V8.0 (20deg probe tilt) – 2227 | HSL6.5GHz | EX3DV4 – SN7858, 2025–02–20 | DAE4ip Sn1847, 2024–12–31 |

Scans 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                |
| MAIA                | N/A         | N/A                |
| Surface Detection   | VMS + 6p    | VMS + 6p           |
| Scan Method         | Measured    | Measured           |

Measurement Results

|                     |                   |                   |
|---------------------|-------------------|-------------------|
|                     | Area Scan         | Zoom Scan         |
| Date                | 2025–09–27, 07:15 | 2025–09–27, 07:23 |
| psSAR1g [W/Kg]      | 21.5              | 29.2              |
| psSAR10g [W/Kg]     | 4.87              | 5.44              |
| Power Drift [dB]    | –0.01             | 0.07              |
| Power Scaling       | Disabled          | Disabled          |
| Scaling Factor [dB] |                   |                   |
| TSL Correction      | No correction     | No correction     |



Device Under Test Properties

| Model                        | Dimensions [mm]       | IMEI |
|------------------------------|-----------------------|------|
| 5G Verification Source 10GHz | 100.0 x 100.0 x 172.0 | 1075 |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band            | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|-----------------|------------|---------------------------------|-------------------|
| 5G              | FRONT, 10.00                 | Validation band | CW, 0--    | 10000.0, 10000                  | 1.0               |

Hardware Setup

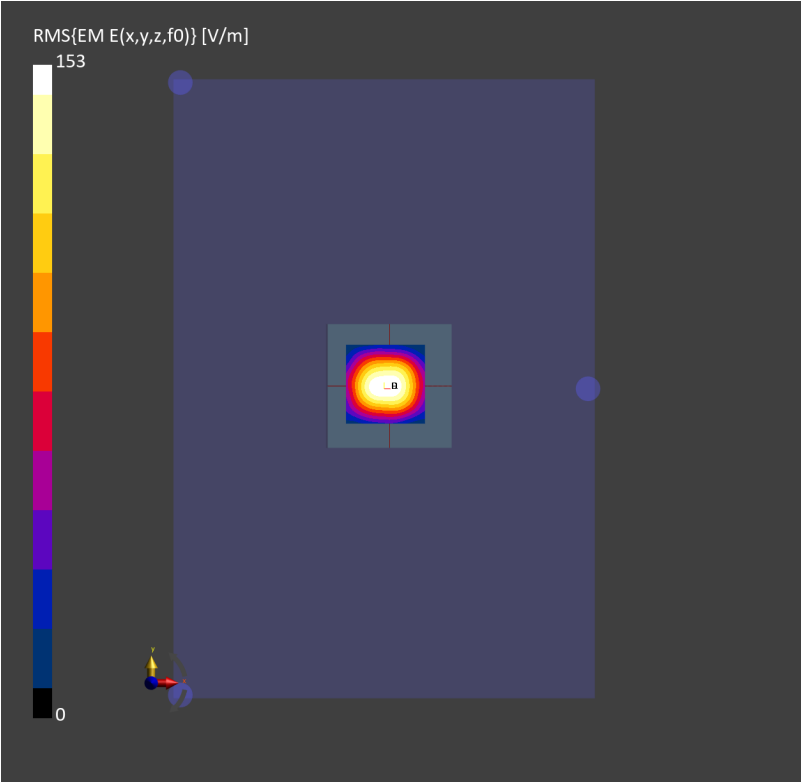
| Phantom       | Medium | Probe, Calibration Date               | DAE, Calibration Date     |
|---------------|--------|---------------------------------------|---------------------------|
| mmWave – 1121 | Air –  | EUmmWV4 – SN9499_F1–55GHz, 2024–12–06 | DAE4ip Sn1847, 2024–12–31 |

Scans Setup

| Scan Type           | 5G Scan       |
|---------------------|---------------|
| Grid Extents [mm]   | 60.0 x 60.0   |
| Grid Steps [lambda] | 0.125 x 0.125 |
| Sensor Surface [mm] | 10.0          |
| MAIA                | N/A           |

Measurement Results

| Scan Type                    | 5G Scan           |
|------------------------------|-------------------|
| Date                         | 2025–10–15, 08:41 |
| Avg. Area [cm <sup>2</sup> ] | 4.00              |
| psPDn+ [W/m <sup>2</sup> ]   | 56.2              |
| psPDtot+ [W/m <sup>2</sup> ] | 56.5              |
| psPDmod+ [W/m <sup>2</sup> ] | 57.1              |
| E <sub>max</sub> [V/m]       | 153               |
| Power Drift [dB]             | 0.07              |



Device Under Test Properties

| Model                        | Dimensions [mm]       | IMEI |
|------------------------------|-----------------------|------|
| 5G Verification Source 10GHz | 100.0 x 100.0 x 172.0 | 1075 |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band            | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|-----------------|------------|---------------------------------|-------------------|
| 5G              | FRONT, 10.00                 | Validation band | CW, 0--    | 10000.0, 10000                  | 1.0               |

Hardware Setup

| Phantom       | Medium | Probe, Calibration Date               | DAE, Calibration Date     |
|---------------|--------|---------------------------------------|---------------------------|
| mmWave – 1121 | Air –  | EUmmWV4 – SN9499_F1–55GHz, 2024–12–06 | DAE4ip Sn1847, 2024–12–31 |

Scans Setup

| Scan Type           | 5G Scan       |
|---------------------|---------------|
| Grid Extents [mm]   | 60.0 x 60.0   |
| Grid Steps [lambda] | 0.125 x 0.125 |
| Sensor Surface [mm] | 10.0          |
| MAIA                | N/A           |

Measurement Results

| Scan Type              | 5G Scan           |
|------------------------|-------------------|
| Date                   | 2025–10–16, 11:34 |
| Avg. Area [cm2]        | 4.00              |
| psPDn+ [W/m2]          | 54.2              |
| psPDtot+ [W/m2]        | 55.3              |
| psPDmod+ [W/m2]        | 55.4              |
| E <sub>max</sub> [V/m] | 150               |
| Power Drift [dB]       | 0.02              |

