

# Appendix A

|                               |
|-------------------------------|
| SAR System Check 6500MHz Head |
| PD 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        | –0.7        | 2.4          | –11.1         | 2.2            |

Exposure Conditions

| Phantom Section, TSL | Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|--------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL            | 5                  |      | CW, 0--    | 6500.000, 0                     | 4.91              | 6.19                   | 34.9             |

Hardware Setup

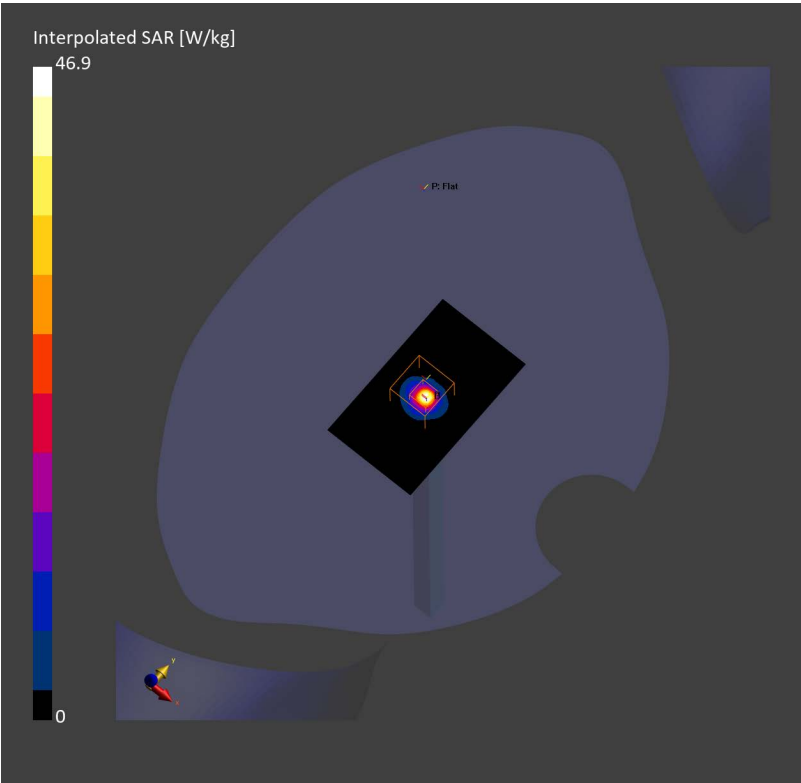
| Phantom                                 | TSL       | Probe, Calibration Date     | DAE, Calibration Date     |
|-----------------------------------------|-----------|-----------------------------|---------------------------|
| Twin-SAM V8.0 (30deg probe tilt) – 2168 | HSL6.5GHz | EX3DV4 – SN7858, 2024–01–09 | DAE4ip Sn1846, 2023–11–29 |

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   | All points  | All points         |
| Scan Method         | Measured    | Measured           |

Measurement Results

|                     | Area Scan         | Zoom Scan         |
|---------------------|-------------------|-------------------|
| Date                | 2024–08–01, 10:16 | 2024–08–01, 10:30 |
| psSAR1g [W/Kg]      | 24.4              | 28.6              |
| psSAR10g [W/Kg]     | 4.85              | 5.45              |
| Power Drift [dB]    | –0.11             | –0.09             |
| 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, 2023–11–29 | DAE4ip Sn1847, 2024–01–04 |

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                         | 2024–08–02, 01:21 |
| Avg. Area [cm <sup>2</sup> ] | 4.00              |
| psPDn+ [W/m <sup>2</sup> ]   | 60.8              |
| psPDtot+ [W/m <sup>2</sup> ] | 61.2              |
| psPDmod+ [W/m <sup>2</sup> ] | 61.7              |
| E <sub>max</sub> [V/m]       | 161               |
| Power Drift [dB]             | 0.01              |

