

## Appendix D

Per standard guidance, dipoles longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- a. When the measured SAR deviates from the calibrated SAR value by less than 10%.
- b. When the most recent return loss result, measured at least annually, deviates by less than 20% from the previous measurement.
- c. When the most recent measurement of the impedance, measured at least annually, deviates by more than 5  $\Omega$  from the previous measurement.

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|                     |      |          |            | TARGET  | MEAS.   | DEVIATION | EVALUATION  | TEST DATE  |
|---------------------|------|----------|------------|---------|---------|-----------|-------------|------------|
| Calibration By CCTL |      |          |            | (dB)    | (dB)    | (%)       | (PASS/FAIL) |            |
| TYPE                | SN.  | FREQ.    | CAL.DATE   |         |         |           |             |            |
| D5GHzV2             | 1349 | 5250 MHz | 2024/03/19 | -28.917 | -31.164 | 7.77%     | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5600 MHz | 2024/03/19 | -25.691 | -26.385 | 2.70%     | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5750 MHz | 2024/03/19 | -26.309 | -27.583 | 4.84%     | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5850 MHz | 2024/03/19 | -26.575 | -24.082 | 9.38%     | PASS        | 2025/01/17 |

## IMPEDANCE

|                     |      |          |            | TARGET | MEAS.  | DEVIATION | EVALUATION  | TEST DATE  |
|---------------------|------|----------|------------|--------|--------|-----------|-------------|------------|
| Calibration By CCTL |      |          |            | (Ω)    | (Ω)    | (Ω)       | (PASS/FAIL) |            |
| TYPE                | SN.  | FREQ.    | CAL.DATE   |        |        |           |             |            |
| D5GHzV2             | 1349 | 5250 MHz | 2024/03/19 | 46.841 | 51.782 | 4.941     | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5600 MHz | 2024/03/19 | 52.406 | 51.100 | 1.306     | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5750 MHz | 2024/03/19 | 52.642 | 48.393 | 4.249     | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5850 MHz | 2024/03/19 | 54.732 | 56.199 | 1.467     | PASS        | 2025/01/17 |

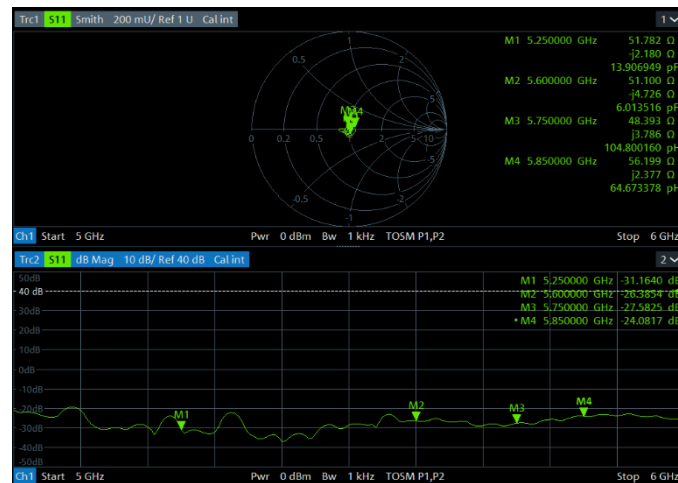
## SYSTEM CHECK

|                     |      |          |            | TARGET        |                | MEAS.         |                | DEVIATION |       | EVALUATION  | TEST DATE  |
|---------------------|------|----------|------------|---------------|----------------|---------------|----------------|-----------|-------|-------------|------------|
| Calibration By CCTL |      |          |            | 1g SAR (W/kg) | 10g SAR (W/kg) | 1g SAR (W/kg) | 10g SAR (W/kg) | 1g        | 10g   | (PASS/FAIL) |            |
| TYPE                | SN.  | FREQ.    | CAL.DATE   |               |                |               |                |           |       |             |            |
| D5GHzV2             | 1349 | 5250 MHz | 2024/03/19 | 8.09          | 2.31           | 7.73          | 2.25           | 4.45%     | 2.60% | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5600 MHz | 2024/03/19 | 8.24          | 2.35           | 8.06          | 2.32           | 2.18%     | 1.28% | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5750 MHz | 2024/03/19 | 8.08          | 2.30           | 8.13          | 2.31           | 0.62%     | 0.43% | PASS        | 2025/01/17 |
| D5GHzV2             | 1349 | 5850 MHz | 2024/03/19 | 7.99          | 2.26           | 8.13          | 2.33           | 1.75%     | 3.10% | PASS        | 2025/01/17 |

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D5GHzV2\_1349

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Dipole\_D5250-SN:1349

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

## Exposure Conditions

|                              |                              |                   |                        |                  |
|------------------------------|------------------------------|-------------------|------------------------|------------------|
| Phantom Section, TSL         | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
| Flat, Head Simulating Liquid | FRONT, 10.00                 | 5.62              | 4.789                  | 36.349           |

## Hardware Setup

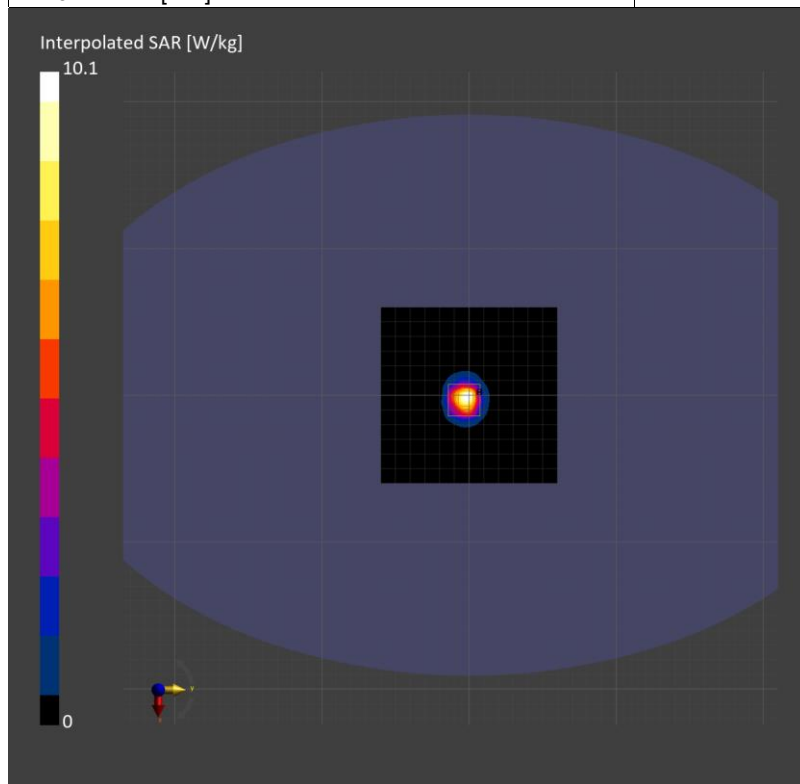
|         |                             |                         |
|---------|-----------------------------|-------------------------|
| Phantom | Probe, Calibration Date     | DAE, Calibration Date   |
| ELI     | EX3DV4 - SN3665, 2024-09-04 | DAE4 Sn1260, 2024-09-19 |

## Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 120.0 | 24.0 x 24.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0   | 4.0 x 4.0 x 2.0    |
| Sensor Surface [mm] | 3.0           | 1.4                |

## Measurement Results

|                    | Area Scan  | Zoom Scan  |
|--------------------|------------|------------|
| Date               | 2025-01-17 | 2025-01-17 |
| psSAR1g [W/kg]     | 6.77       | 7.73       |
| psSAR8g [W/kg]     | 2.43       | 2.62       |
| psSAR10g [W/kg]    | 2.10       | 2.25       |
| Power Drift [dB]   | -0.04      | -0.05      |
| M2/M1 [%]          |            | 54.1       |
| Dist 3dB Peak [mm] |            | 7.3        |



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Dipole\_D5600-SN:1349

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

## Exposure Conditions

|                              |                              |                   |                        |                  |
|------------------------------|------------------------------|-------------------|------------------------|------------------|
| Phantom Section, TSL         | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
| Flat, Head Simulating Liquid | FRONT, 10.00                 | 5.13              | 5.154                  | 35.949           |

## Hardware Setup

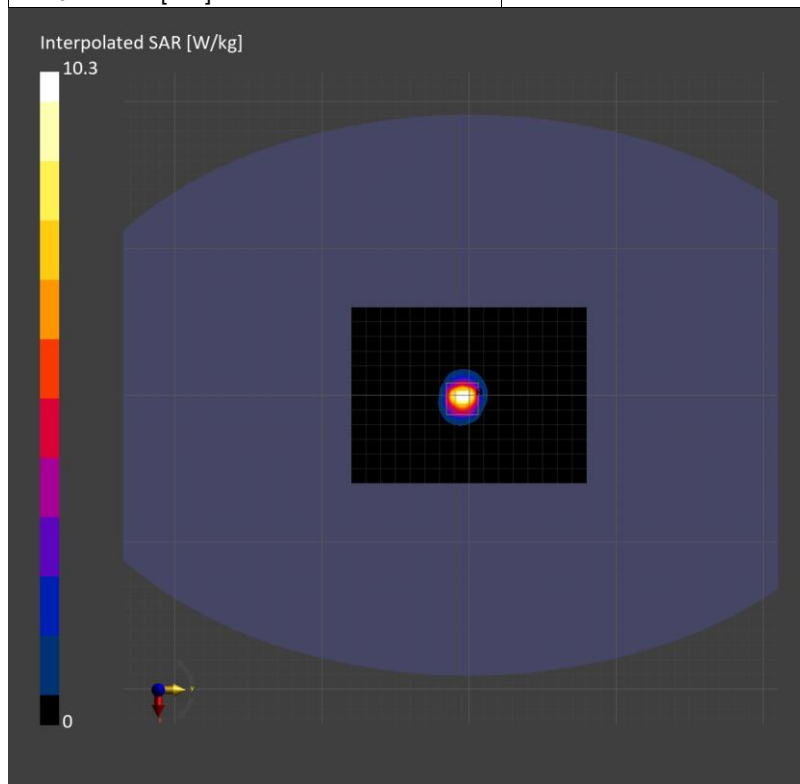
|         |                             |                         |
|---------|-----------------------------|-------------------------|
| Phantom | Probe, Calibration Date     | DAE, Calibration Date   |
| ELI     | EX3DV4 - SN3665, 2024-09-04 | DAE4 Sn1260, 2024-09-19 |

## Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 160.0 | 24.0 x 24.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0   | 4.0 x 4.0 x 2.0    |
| Sensor Surface [mm] | 3.0           | 1.4                |

## Measurement Results

|                    | Area Scan  | Zoom Scan  |
|--------------------|------------|------------|
| Date               | 2025-01-17 | 2025-01-17 |
| psSAR1g [W/kg]     | 7.33       | 8.06       |
| psSAR8g [W/kg]     | 2.60       | 2.68       |
| psSAR10g [W/kg]    | 2.24       | 2.32       |
| Power Drift [dB]   | -0.04      | 0.03       |
| M2/M1 [%]          |            | 51.7       |
| Dist 3dB Peak [mm] |            | 7.4        |



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Dipole\_D5750-SN:1349

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

## Exposure Conditions

|                              |                              |                   |                        |                  |
|------------------------------|------------------------------|-------------------|------------------------|------------------|
| Phantom Section, TSL         | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
| Flat, Head Simulating Liquid | FRONT, 10.00                 | 5.21              | 5.309                  | 35.777           |

## Hardware Setup

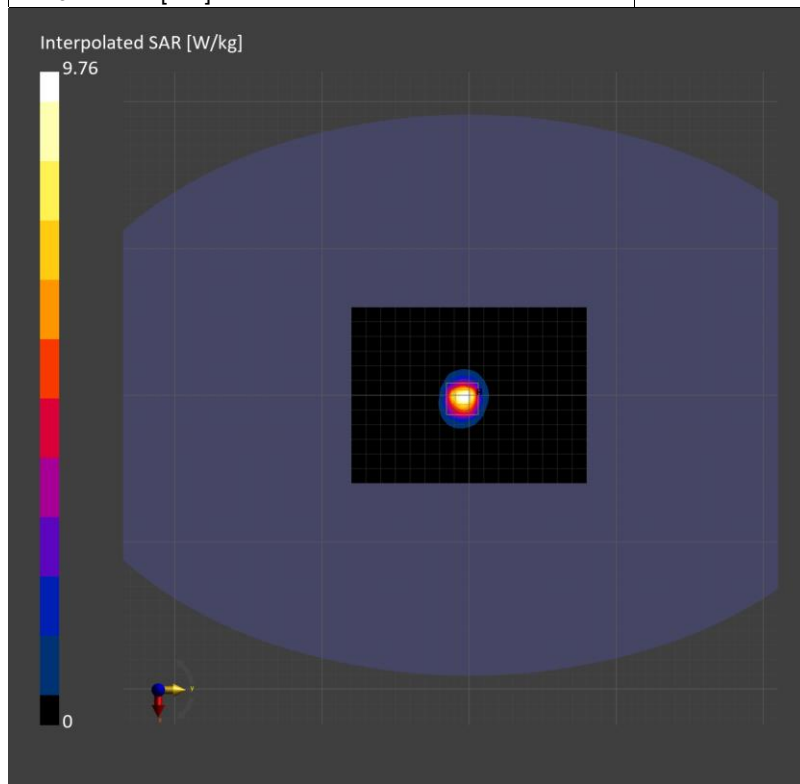
|         |                             |                         |
|---------|-----------------------------|-------------------------|
| Phantom | Probe, Calibration Date     | DAE, Calibration Date   |
| ELI     | EX3DV4 - SN3665, 2024-09-04 | DAE4 Sn1260, 2024-09-19 |

## Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 160.0 | 24.0 x 24.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0   | 4.0 x 4.0 x 2.0    |
| Sensor Surface [mm] | 3.0           | 1.4                |

## Measurement Results

|                    | Area Scan  | Zoom Scan  |
|--------------------|------------|------------|
| Date               | 2025-01-17 | 2025-01-17 |
| psSAR1g [W/kg]     | 6.99       | 8.13       |
| psSAR8g [W/kg]     | 2.51       | 2.73       |
| psSAR10g [W/kg]    | 2.17       | 2.31       |
| Power Drift [dB]   | 0.04       | -0.01      |
| M2/M1 [%]          |            | 50.4       |
| Dist 3dB Peak [mm] |            | 7.4        |



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Dipole\_D5850-SN:1349

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

## Exposure Conditions

|                      |                              |                   |                        |                  |
|----------------------|------------------------------|-------------------|------------------------|------------------|
| Phantom Section, TSL | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
| Flat, HSL            | FRONT, 10.00                 | 5.10              | 5.496                  | 36.243           |

## Hardware Setup

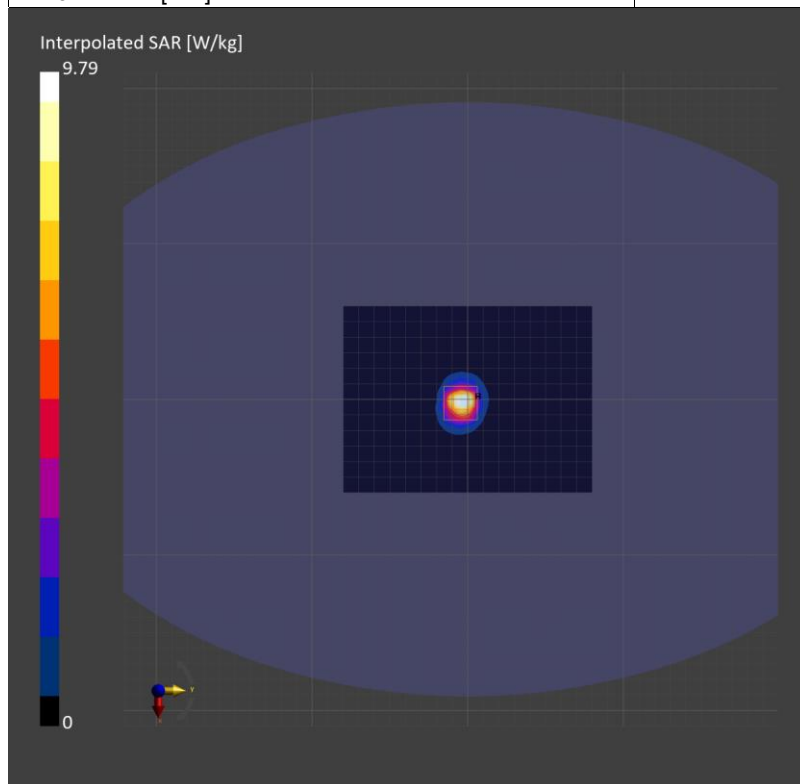
|         |                             |                         |
|---------|-----------------------------|-------------------------|
| Phantom | Probe, Calibration Date     | DAE, Calibration Date   |
| ELI     | EX3DV4 - SN3665, 2024-09-04 | DAE4 Sn1260, 2024-09-19 |

## Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 160.0 | 24.0 x 24.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0   | 4.0 x 4.0 x 2.0    |
| Sensor Surface [mm] | 3.0           | 1.4                |

## Measurement Results

|                    | Area Scan  | Zoom Scan  |
|--------------------|------------|------------|
| Date               | 2025-01-17 | 2025-01-17 |
| psSAR1g [W/kg]     | 7.00       | 8.13       |
| psSAR8g [W/kg]     | 2.52       | 2.71       |
| psSAR10g [W/kg]    | 2.18       | 2.33       |
| Power Drift [dB]   | 0.06       | 0.06       |
| M2/M1 [%]          |            | 50.6       |
| Dist 3dB Peak [mm] |            | 7.4        |

**- End of report -**

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