

## Appendix B. – SAR Test Plots

EUT Type: Mobile Phone  
 Ambient Temperature: 19.4 °C  
 Liquid Temperature: 19.3 °C  
 Test Date: 12/04/2025  
 Band: Bluetooth Ant.F  
 Plot No.: A1  
 Measurement Report for Device, CHEEK, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5),  
 Channel 39 (2441.000 MHz)

#### Exposure Conditions

| Phantom Section, TSL              | Position, Test Distance [mm] | Band             | Group, UID       | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------------------------|------------------------------|------------------|------------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, Head Simulating Liquid | CHEEK, 0.00                  | ISM 2.4 GHz Band | Bluetooth, 10032 | 2441.000, 39                    | 4.44              | 1.82                   | 39.1             |

#### Hardware Setup

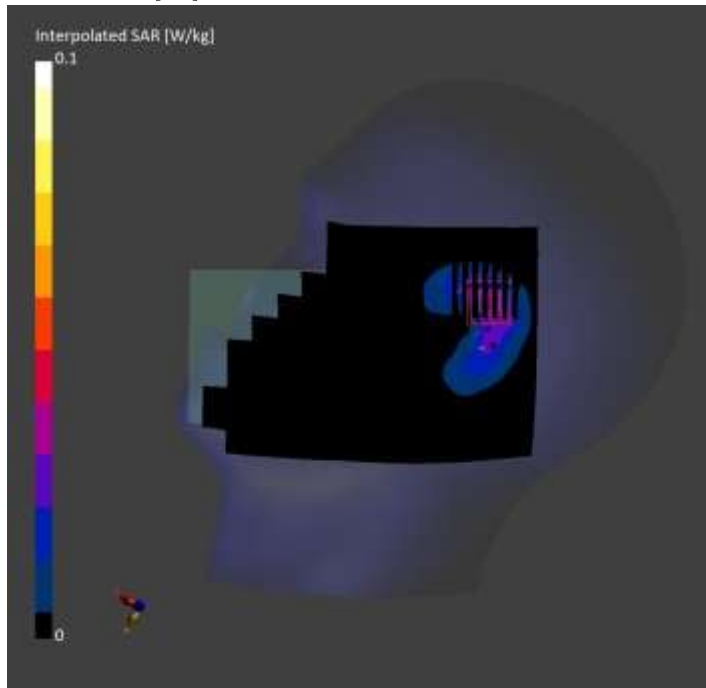
|                                         |                             |                         |
|-----------------------------------------|-----------------------------|-------------------------|
| Phantom                                 | Probe, Calibration Date     | DAE, Calibration Date   |
| Twin-SAM V8.0 (30deg probe tilt) - xxxx | ES3DV3 - SN3076, 2025-07-22 | DAE4 Sn1720, 2025-04-23 |

#### Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 192.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 12.0 x 12.0   | 5.0 x 5.0 x 1.5    |
| Sensor Surface [mm] | 3.0           | 3.0                |

#### Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 0.034     | 0.038     |
| psSAR10g [W/Kg]  | 0.016     | 0.016     |
| Power Drift [dB] | -0.19     | -0.17     |



EUT Type: Mobile Phone  
Ambient Temperature: 19.4 °C  
Liquid Temperature: 19.3 °C  
Test Date: 12/04/2025  
Band: Bluetooth Ant.F  
Plot No.: B1

Measurement Report for Device, BACK, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 39 (2441.000 MHz)

#### Exposure Conditions

| Phantom Section, TSL         | Position, Test Distance [mm] | Band             | Group, UID       | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------|------------------------------|------------------|------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, Head Simulating Liquid | BACK, 5.00                   | ISM 2.4 GHz Band | Bluetooth, 10032 | 2441.000, 39                    | 4.44              | 1.82                   | 39.1             |

#### Hardware Setup

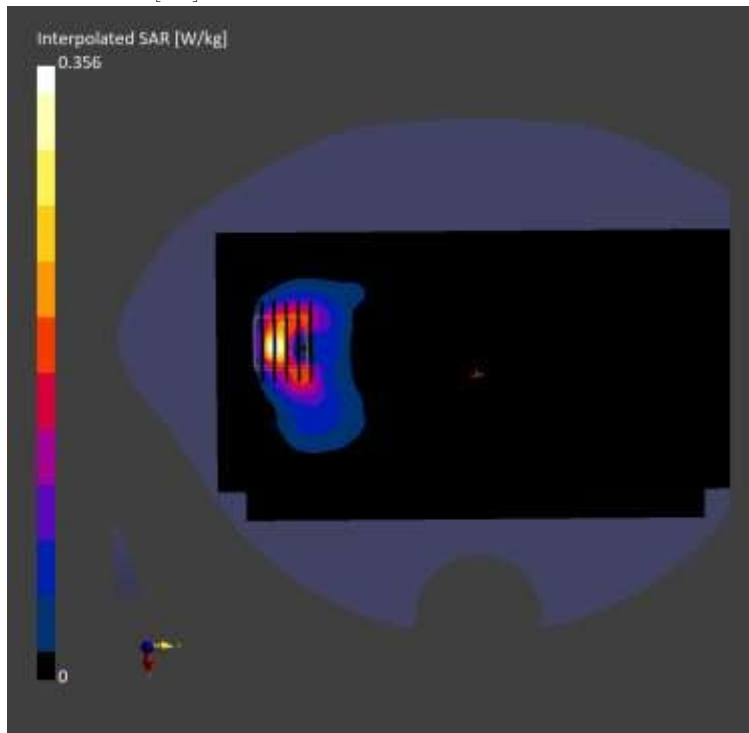
|                                         |                             |                         |
|-----------------------------------------|-----------------------------|-------------------------|
| Phantom                                 | Probe, Calibration Date     | DAE, Calibration Date   |
| Twin-SAM V8.0 (30deg probe tilt) - xxxx | ES3DV3 - SN3076, 2025-07-22 | DAE4 Sn1720, 2025-04-23 |

#### Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 204.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 12.0 x 12.0   | 5.0 x 5.0 x 1.5    |
| Sensor Surface [mm] | 3.0           | 3.0                |

#### Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 0.102     | 0.133     |
| psSAR10g [W/Kg]  | 0.041     | 0.048     |
| Power Drift [dB] | -0.04     | -0.02     |



EUT Type: Mobile Phone  
Ambient Temperature: 19.4 °C  
Liquid Temperature: 19.3 °C  
Test Date: 12/04/2025  
Band: Bluetooth Ant.F  
Plot No.: C1

Measurement Report for Device, BACK, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 39 (2441.000 MHz)

#### Exposure Conditions

| Phantom Section, TSL         | Position, Test Distance [mm] | Band             | Group, UID       | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------|------------------------------|------------------|------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, Head Simulating Liquid | BACK, 5.00                   | ISM 2.4 GHz Band | Bluetooth, 10032 | 2441.000, 39                    | 4.44              | 1.82                   | 39.1             |

#### Hardware Setup

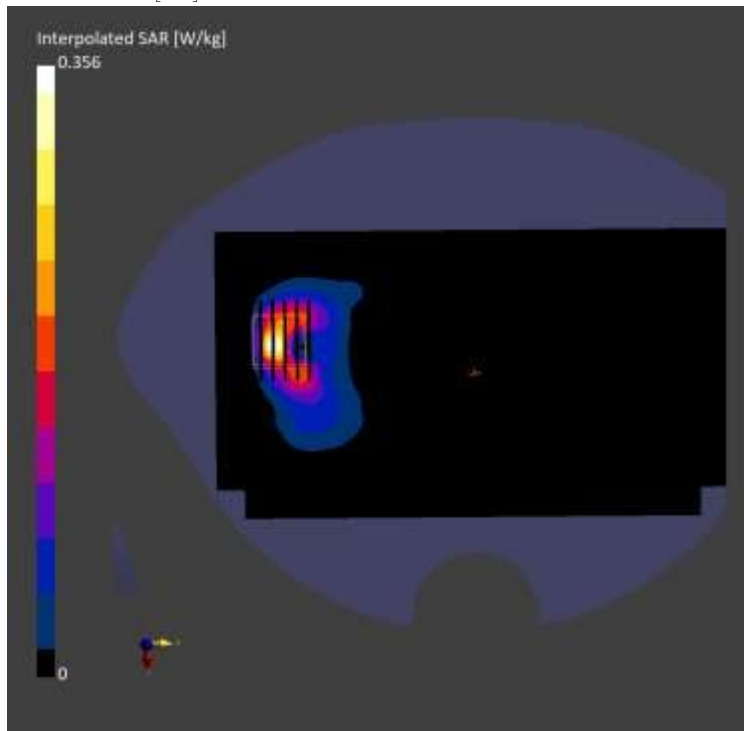
|                                         |                             |                         |
|-----------------------------------------|-----------------------------|-------------------------|
| Phantom                                 | Probe, Calibration Date     | DAE, Calibration Date   |
| Twin-SAM V8.0 (30deg probe tilt) - xxxx | ES3DV3 - SN3076, 2025-07-22 | DAE4 Sn1720, 2025-04-23 |

#### Scans Setup

|                     | Area Scan     | Zoom Scan          |
|---------------------|---------------|--------------------|
| Grid Extents [mm]   | 120.0 x 204.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 12.0 x 12.0   | 5.0 x 5.0 x 1.5    |
| Sensor Surface [mm] | 3.0           | 3.0                |

#### Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 0.102     | 0.133     |
| psSAR10g [W/Kg]  | 0.041     | 0.048     |
| Power Drift [dB] | -0.04     | -0.02     |



## Appendix C. – Dipole Verification Plots

Test Laboratory: HCT CO., LTD  
 Input Power: 17 W  
 Liquid Temperature: 19.3 °C  
 Test Date: 12/04/2025  
 Band: Bluetooth Ant.F  
 Plot No.: D1  
 Measurement Report for Device, , , CW, Channel 0 (2450.000 MHz)

#### Exposure Conditions

| Phantom Section, TSL         | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------|------------------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, Head Simulating Liquid | ,                            |      | CW, 0      | 2450.000, 0                     | 4.44              | 1.84                   | 39.4             |

#### Hardware Setup

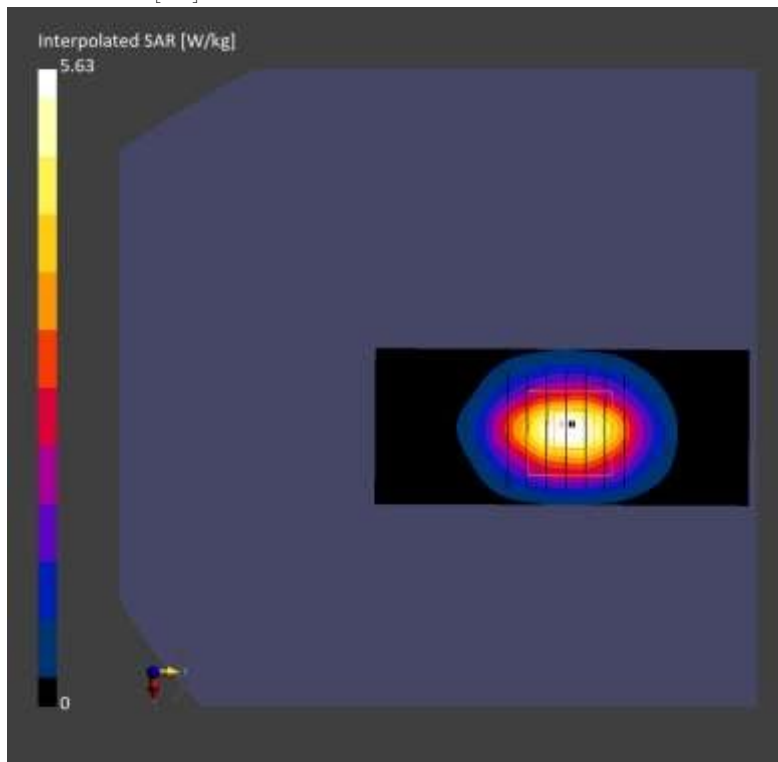
|                                         |                             |                         |
|-----------------------------------------|-----------------------------|-------------------------|
| Phantom                                 | Probe, Calibration Date     | DAE, Calibration Date   |
| Twin-SAM V8.0 (30deg probe tilt) - xxxx | ES3DV3 - SN3076, 2025-07-22 | DAE4 Sn1720, 2025-04-23 |

#### Scans Setup

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 96.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 12.0 | 5.0 x 5.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 3.0                |

#### Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 2.75      | 2.70      |
| psSAR10g [W/Kg]  | 1.27      | 1.26      |
| Power Drift [dB] | -0.08     | -0.10     |



## Appendix D.– SAR Tissue Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and saline solution (see Table 3.1). Preservation with a bactericide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Harts grove.

| Ingredients<br>(% by weight)  | Frequency (MHz) |      |       |       |       |       |               |      |              |       |
|-------------------------------|-----------------|------|-------|-------|-------|-------|---------------|------|--------------|-------|
|                               | 750             |      | 835   |       | 1 900 |       | 2 450 – 2 700 |      | 3500 - 5 800 |       |
| Tissue Type                   | Head            | Body | Head  | Body  | Head  | Body  | Head          | Body | Head         | Body  |
| Water                         | 41.1            | 51.7 | 40.45 | 53.06 | 54.9  | 70.17 | 71.88         | 73.2 | 65.52        | 78.66 |
| Salt (NaCl)                   | 1.4             | 0.9  | 1.45  | 0.94  | 0.18  | 0.39  | 0.16          | 0.1  | 0.0          | 0.0   |
| Sugar                         | 57.0            | 47.2 | 57.0  | 44.9  | 0.0   | 0     | 0.0           | 0.0  | 0.0          | 0.0   |
| HEC                           | 0.2             | 0    | 1.0   | 1.0   | 0.0   | 0     | 0.0           | 0.0  | 0.0          | 0.0   |
| Bactericide                   | 0.2             | 0.1  | 0.1   | 0.1   | 0.0   | 0     | 0.0           | 0.0  | 0.0          | 0.0   |
| Triton X-100                  | 0.0             | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 19.97         | 0.0  | 17.24        | 10.67 |
| DGBE                          | 0.0             | 0.0  | 0.0   | 0.0   | 44.92 | 29.44 | 7.99          | 26.7 | 0.0          | 0.0   |
| Diethylene glycol hexyl ether | -               | -    | -     | -     | -     | -     | -             | -    | -            | -     |

|                           |                                                                      |        |                        |
|---------------------------|----------------------------------------------------------------------|--------|------------------------|
| Salt:                     | 99 % Pure Sodium Chloride                                            | Sugar: | 98 % Pure Sucrose      |
| Water:                    | De-ionized, 16M resistivity                                          | HEC:   | Hydroxyethyl Cellulose |
| DGBE:                     | 99 % Di (ethylene glycol) butyl ether, [2-(2-butoxyethoxy) ethanol]  |        |                        |
| Triton X-100(ultra-pure): | Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl) phenyl] ether |        |                        |

Composition of the Tissue Equivalent Matter

## Appendix E. – SAR System Validation

Per FCC KDB 865664 D02v01r02, SAR system validation status should be document to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in IEEE 1528-2013 and FCC KDB 865664 D01v01r04. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

| SAR System No. | Probe | Probe Type | Probe Calibration Point |       | Dipole | Date       | Dielectric Parameters |                       | CW Validation |                 |                | Modulation Validation |             |      |
|----------------|-------|------------|-------------------------|-------|--------|------------|-----------------------|-----------------------|---------------|-----------------|----------------|-----------------------|-------------|------|
|                |       |            |                         |       |        |            | Measured Permittivity | Measured Conductivity | Sensitivity   | Probe Linearity | Probe Isotropy | MOD. Type             | Duty Factor | PAR  |
| 5              | 3076  | ES3DV3     | Head                    | 2 450 | 1049   | 2025-07-28 | 39.0                  | 1.80                  | PASS          | PASS            | PASS           | OFDM                  | N/A         | PASS |

SAR System Validation Summary 1g

### Note;

All measurement was performed using probes calibrated for CW signal only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04. SAR system were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to KDB 865664 D01v01r04.