# Appendix B. – SAR Test Plots

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.5 ℃** |
| **Liquid Temperature:** | **21.4 ℃** |
| **Test Date:** | **03/19/2024** |
| **Plot No.:** | **A1** |

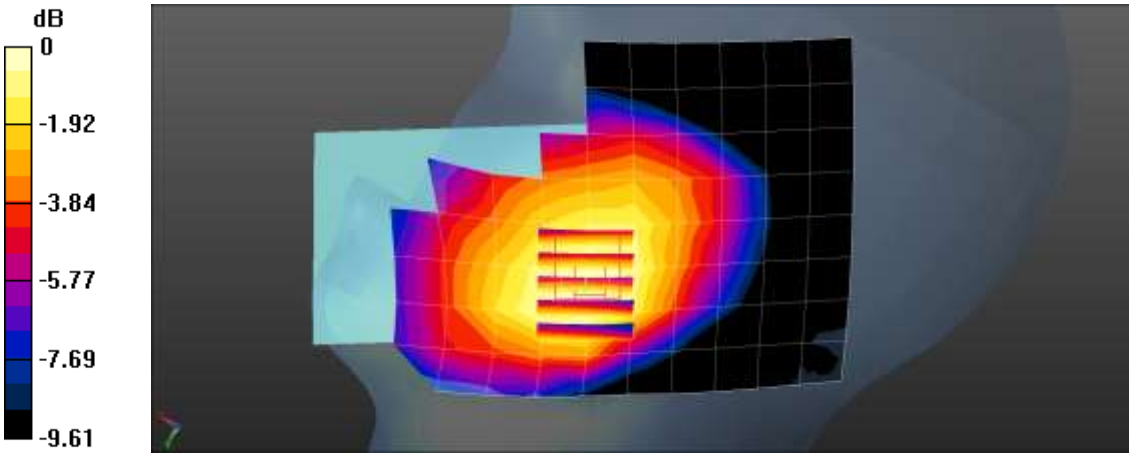
Communication System: UID 0, GSM 850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.921 S/m; $\varepsilon_r$ = 41.335; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 836.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**GSM850 Head Right Touch 190ch/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.160 W/kg
**GSM850 Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.134 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.171 W/kg
**SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.114 W/kg**
Maximum value of SAR (measured) = 0.163 W/kg




0 dB = 0.163 W/kg = -7.88 dBW/kg

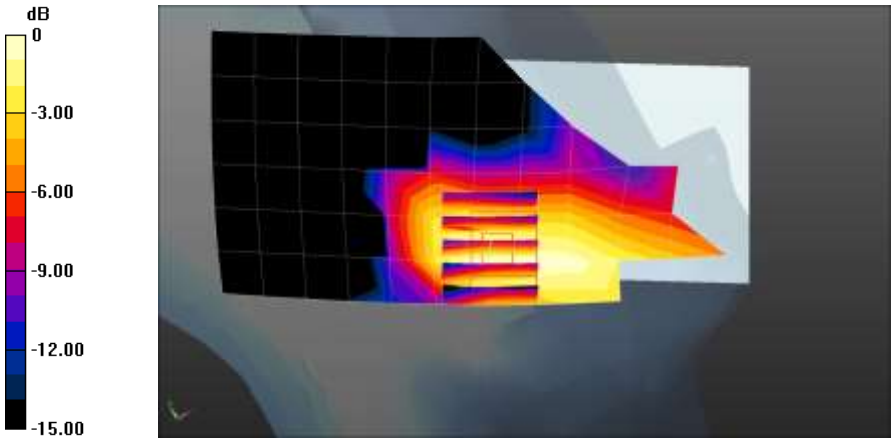
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.4 ℃** |
| **Liquid Temperature:** | **19.3 ℃** |
| **Test Date:** | **04/16/2024** |
| **Plot No.:** | **A2** |

Communication System: UID 0, GSM 1900 4TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.07491
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.426 S/m; $\varepsilon_r$ = 40.009; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1880 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**GSM1900 Head Left Touch 4Tx 661ch/Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0462 W/kg
**GSM1900 Head Left Touch 4Tx 661ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.0540 W/kg
**SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.023 W/kg**
Maximum value of SAR (measured) = 0.0478 W/kg




0 dB = 0.0478 W/kg = -13.21 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **20.1 ℃** |
| **Liquid Temperature:** | **20.0 ℃** |
| **Test Date:** | **03/18/2024** |
| **Plot No.:** | **A3** |

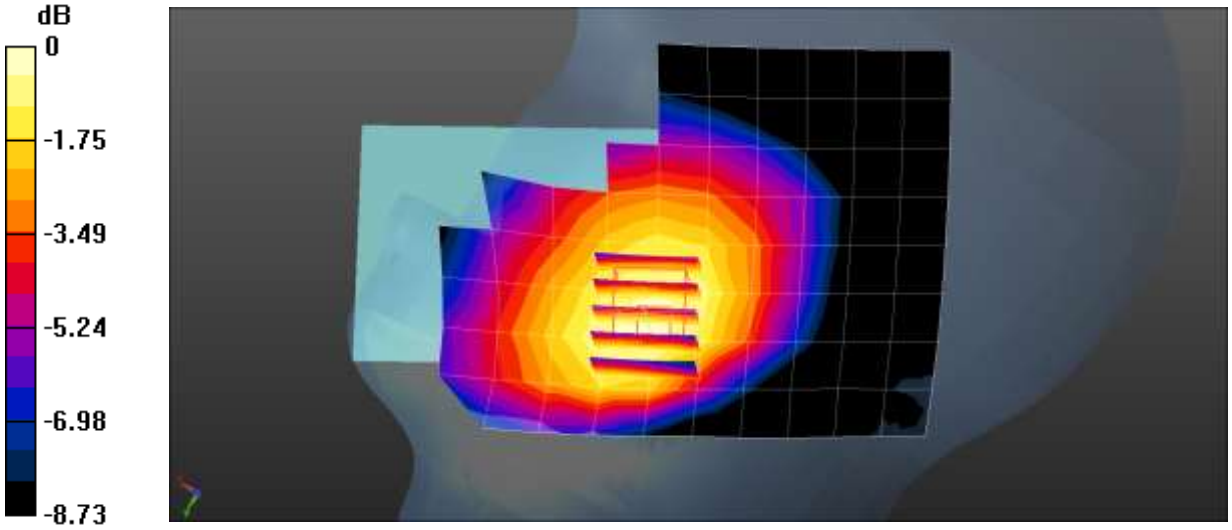
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.905 S/m; $\varepsilon_r$ = 41.31; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 836.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 5 Head Right Touch 4183ch/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.204 W/kg

**UMTS Band 5 Head Right Touch 4183ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.354 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.216 W/kg
**SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.145 W/kg**
Maximum value of SAR (measured) = 0.208 W/kg




0 dB = 0.208 W/kg = -6.82 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/15/2024** |
| **Plot No.:** | **A4** |

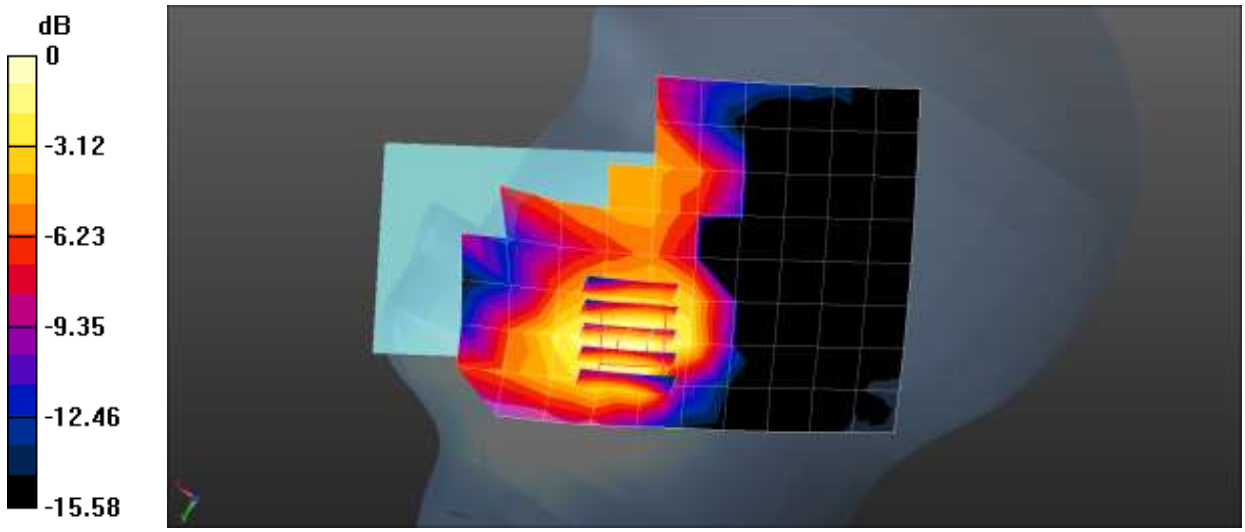
Communication System: UID 0, WCDMA IV (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma$ = 1.331 S/m; $\varepsilon_r$ = 41.267; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.29, 8.71, 8.9) @ 1752.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 4 Head Right Touch 1513ch/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0494 W/kg

**UMTS Band 4 Head Right Touch 1513ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.085 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0580 W/kg
**SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.026 W/kg**
Maximum value of SAR (measured) = 0.0476 W/kg




0 dB = 0.0476 W/kg = -13.22 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/14/2024** |
| **Plot No.:** | **A5** |

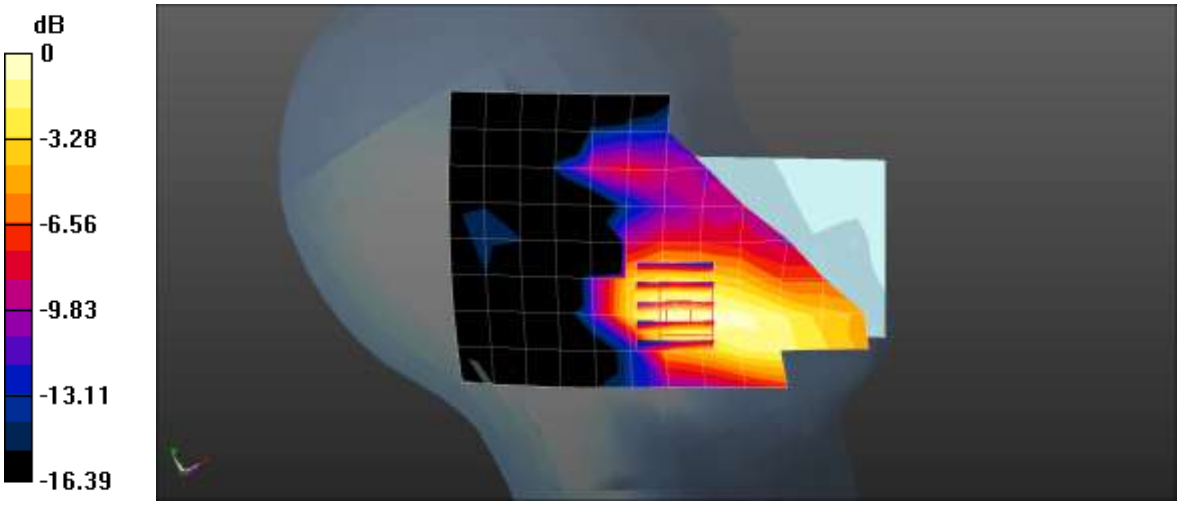
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.386 S/m; $\varepsilon_r$ = 39.051; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1880 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Head Left Touch 9400ch/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0640 W/kg

**UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.077 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.0790 W/kg
**SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.033 W/kg**
Maximum value of SAR (measured) = 0.0696 W/kg




0 dB = 0.0696 W/kg = -11.57 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.8 ℃** |
| **Liquid Temperature:** | **22.6 ℃** |
| **Test Date:** | **04/23/2024** |
| **Plot No.:** | **A6** |

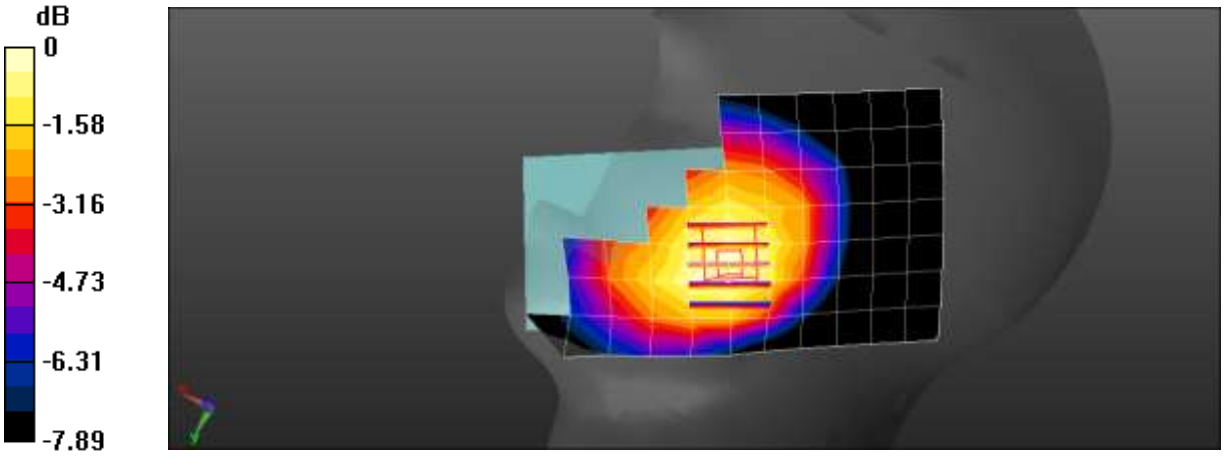
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; $\sigma$ = 0.868 S/m; $\varepsilon_r$ = 43.563; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 707.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 12 Head Right Touch QPSK 10MHz 1RB 0offset 23095ch/Area Scan (8x14x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.171 W/kg

**LTE Band 12 Head Right Touch QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.150 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.181 W/kg
**SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.126 W/kg**
Maximum value of SAR (measured) = 0.174 W/kg




0 dB = 0.174 W/kg = -7.59 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.1 ℃** |
| **Liquid Temperature:** | **21.0 ℃** |
| **Test Date:** | **04/25/2024** |
| **Plot No.:** | **A7** |

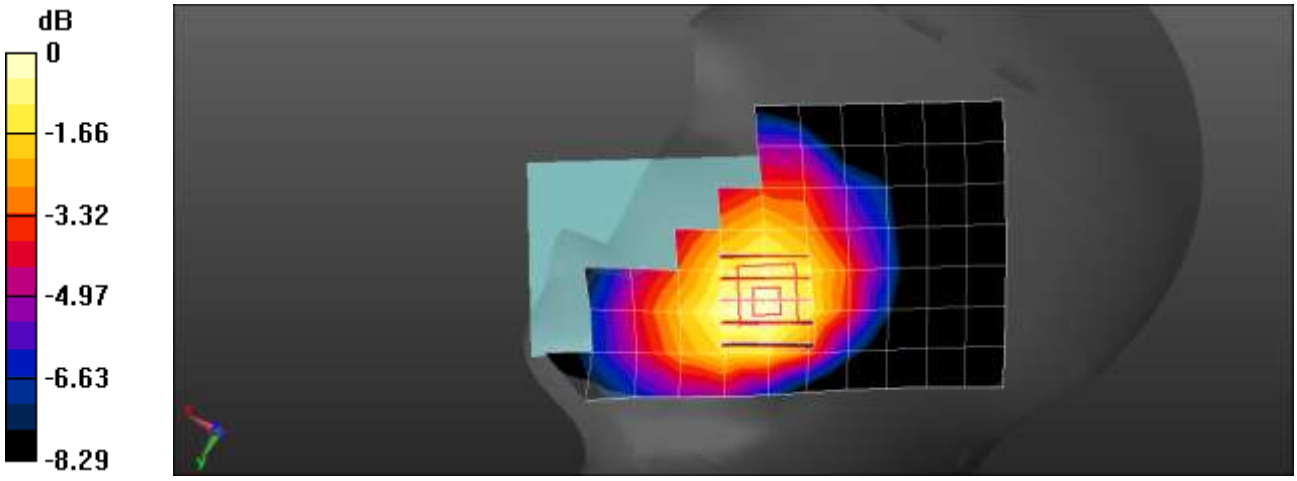
Communication System: UID 0, LTE 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; $\sigma$ = 0.911 S/m; $\varepsilon_r$ = 42.368; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 782 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 13 Head Right Touch QPSK 10MHz 1RB 24offset 23230ch/Area Scan (8x14x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0851 W/kg

**LTE Band 13 Head Right Touch QPSK 10MHz 1RB 24offset 23230ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.895 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.0910 W/kg
**SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.058 W/kg**
Maximum value of SAR (measured) = 0.0835 W/kg




0 dB = 0.0835 W/kg = -10.78 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 22.6 ℃
**Liquid Temperature:** 22.5 ℃
**Test Date:** 04/16/2024
**Plot No.:** A8
**Measurement Report for Device, CHEEK, Band 25, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) Channel 26590 (1905.0 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 |
|---|---|---|---|---|---|---|---|
| LeftHead, HSL | CHEEK, 0.00 | Band 25 | LTE-FDD, 10297-AAE | 1905.0, 26590 | 8.81 | 1.42 | 38.9 |

**Hardware Setup**

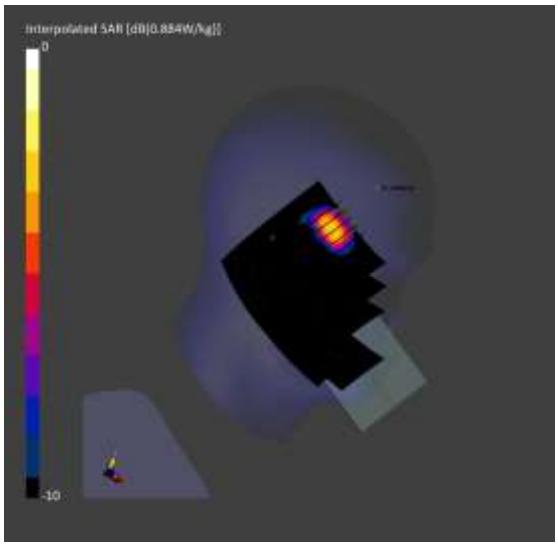
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 32.0 x 32.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 8.0 x 8.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.395 | 0.407 |
| psSAR10g [W/Kg] | 0.197 | 0.175 |
| Power Drift [dB] | -0.04 | 0.04 |



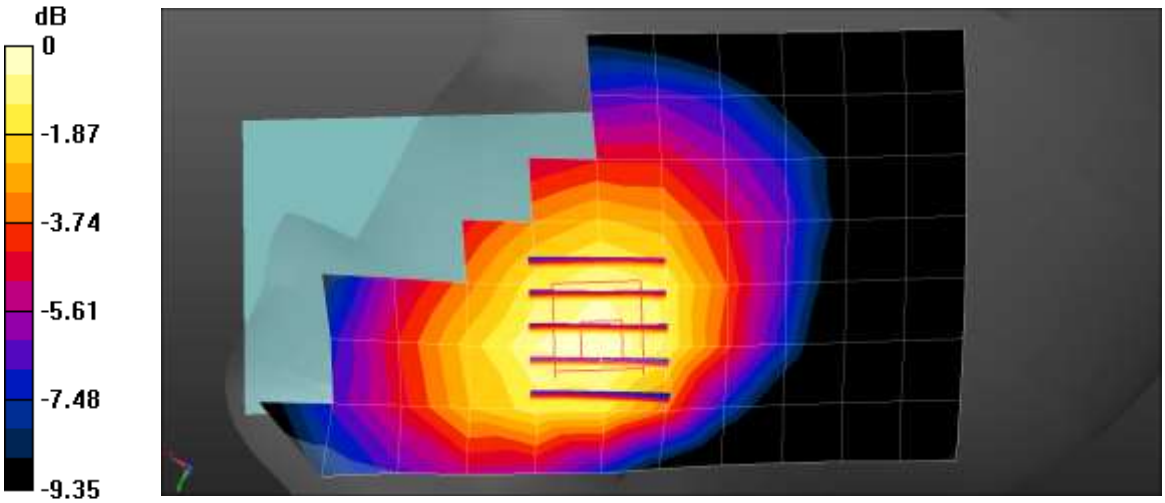
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **23.2 ℃** |
| **Liquid Temperature:** | **23.1 ℃** |
| **Test Date:** | **04/01/2024** |
| **Plot No.:** | **A9** |

Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; $\sigma$ = 0.931 S/m; $\varepsilon_r$ = 40.743; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 831.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 26 Head Right Touch QPSK 15MHz 1RB 36offset 26865ch/Area Scan (8x14x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.213 W/kg
**LTE Band 26 Head Right Touch QPSK 15MHz 1RB 36offset 26865ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.598 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.230 W/kg
**SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.136 W/kg**
Maximum value of SAR (measured) = 0.212 W/kg




0 dB = 0.212 W/kg = -6.74 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.3 ℃** |
| **Liquid Temperature:** | **19.1 ℃** |
| **Test Date:** | **03/19/2024** |
| **Plot No.:** | **A10** |

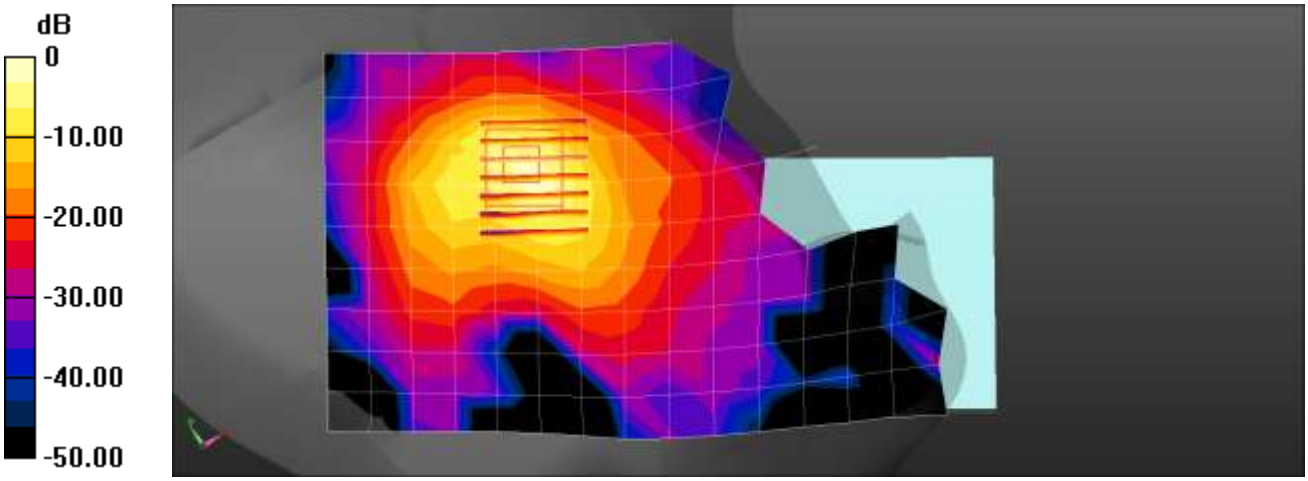
Communication System: UID 0, LTE Band41 (0); Frequency: 2593 MHz;Duty Cycle: 1:2.31047
Medium parameters used (interpolated): f = 2593 MHz; $\sigma$ = 1.951 S/m; $\varepsilon_r$ = 38.297; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2593 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 41 Head Left Touch QPSK 20MHz 50RB 0offset 40620ch/Area Scan (10x17x1):**
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.43 W/kg

**LTE Band 41 Head Left Touch QPSK 20MHz 50RB 0offset 40620ch/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.148 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.35 W/kg
**SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.280 W/kg**
Maximum value of SAR (measured) = 1.67 W/kg




0 dB = 1.67 W/kg = 2.23 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 24.1 ℃
**Liquid Temperature:** 24.0 ℃
**Test Date:** 04/22/2024
**Plot No.:** A11
**Measurement Report for Device, CHEEK, Band 66, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)**
**Channel 132072 (1720.0 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 |
|---|---|---|---|---|---|---|---|
| LeftHead, HSL | CHEEK, 0.00 | Band 66 | LTE-FDD, 10297-AAE | 1720.0, 132072 | 9.17 | 1.31 | 41.5 |

**Hardware Setup**

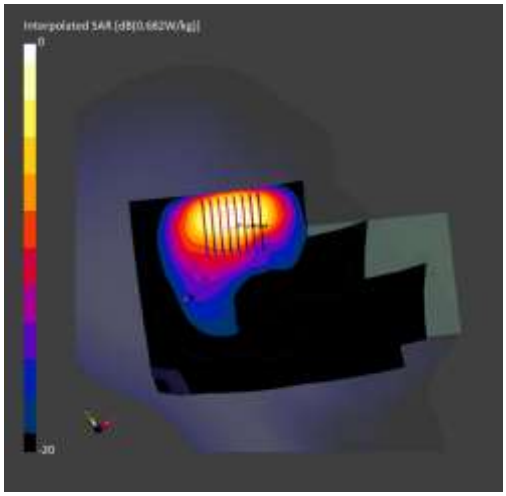
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 4.7 x 4.7 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.514 | 0.565 |
| psSAR10g [W/Kg] | 0.252 | 0.254 |
| Power Drift [dB] | 0.10 | 0.15 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.3 ℃** |
| **Liquid Temperature:** | **19.2 ℃** |
| **Test Date:** | **03/28/2024** |
| **Plot No.:** | **A12** |

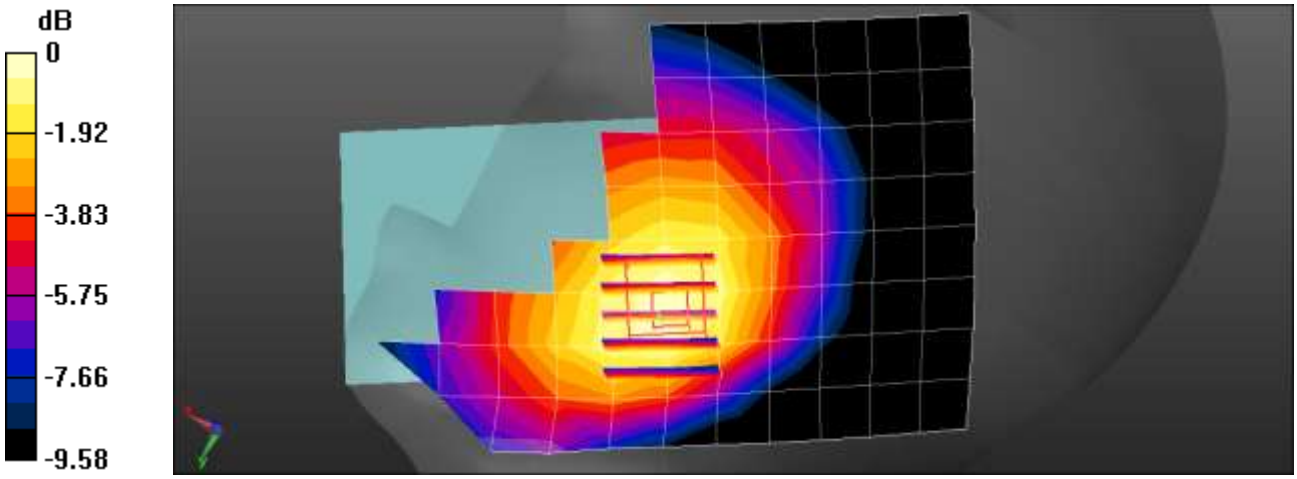
Communication System: UID 0, 5G nr (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.928 S/m; $\varepsilon_r$ = 40.684; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 836.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n5 Head Right Touch DFT-s QPSK 20MHz 1RB 53offset 167300ch/Area Scan (9x14x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.261 W/kg

**NR Band n5 Head Right Touch DFT-s QPSK 20MHz 1RB 53offset 167300ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.072 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.285 W/kg
**SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.179 W/kg**
Maximum value of SAR (measured) = 0.269 W/kg




0 dB = 0.269 W/kg = -5.70 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 22.4 ℃
**Liquid Temperature:** 22.3 ℃
**Test Date:** 04/28/2024
**Plot No.:** A13
**Measurement Report for Device, CHEEK, Band n25, 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) Channel 376500 (1882.5 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 |
|---|---|---|---|---|---|---|---|
| LeftHead, HSL | CHEEK, 0.00 | Band n25 | 5G NR FR1 FDD, 10950-AAC | 1882.5, 376500 | 8.81 | 1.35 | 39.1 |

**Hardware Setup**

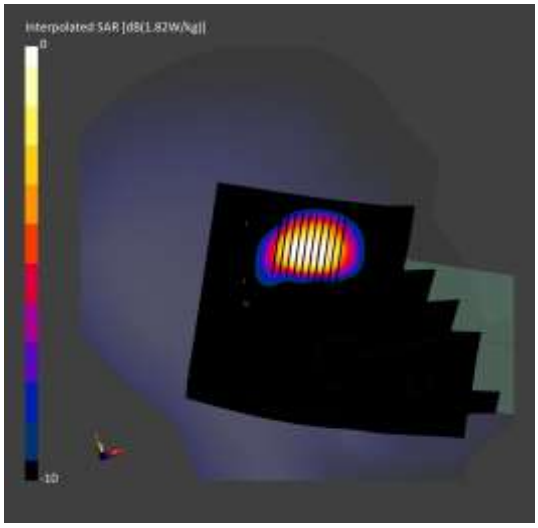
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 3.7 x 3.7 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.641 | 0.726 |
| psSAR10g [W/Kg] | 0.334 | 0.306 |
| Power Drift [dB] | -0.17 | -0.12 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.1 ℃** |
| **Liquid Temperature:** | **21.9℃** |
| **Test Date:** | **02/29/2024** |
| **Plot No.:** | **A14** |

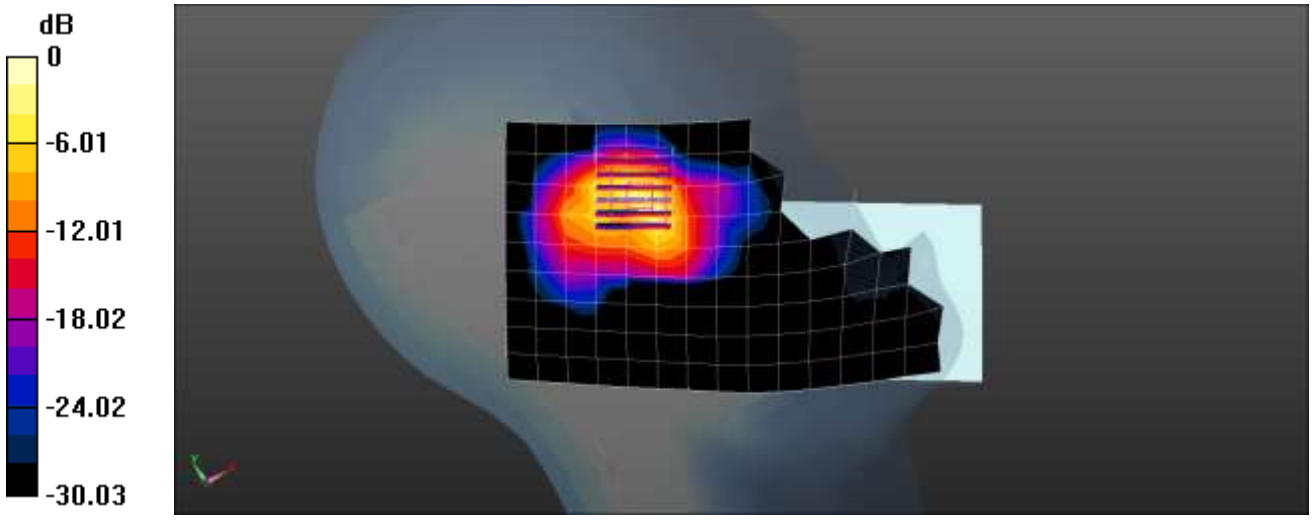
Communication System: UID 0, NR n41 (0); Frequency: 2592.99 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2592.99 MHz; $\sigma$ = 1.996 S/m; $\varepsilon_r$ = 39.182; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.87, 7.41, 7.6) @ 2592.99 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n41 Head Left Touch DFT-s QPSK 100MHz 270RB 0offset 518598ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.15 W/kg

**NR Band n41 Head Left Touch DFT-s QPSK 100MHz 270RB 0offset 518598ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.352 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.48 W/kg
**SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.303 W/kg**
Maximum value of SAR (measured) = 1.75 W/kg




0 dB = 1.75 W/kg = 2.43 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 23.0 ℃
**Liquid Temperature:** 22.8 ℃
**Test Date:** 04/25/2024
**Plot No.:** A15
**Measurement Report for Device, CHEEK, Band n66, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) Channel 349000 (1745.0 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 |
|---|---|---|---|---|---|---|---|
| LeftHead, HSL | CHEEK, 0.00 | Band n66 | 5G NR FR1 FDD, 10934-AAC | 1745.0, 349000 | 9.17 | 1.33 | 41.5 |

**Hardware Setup**

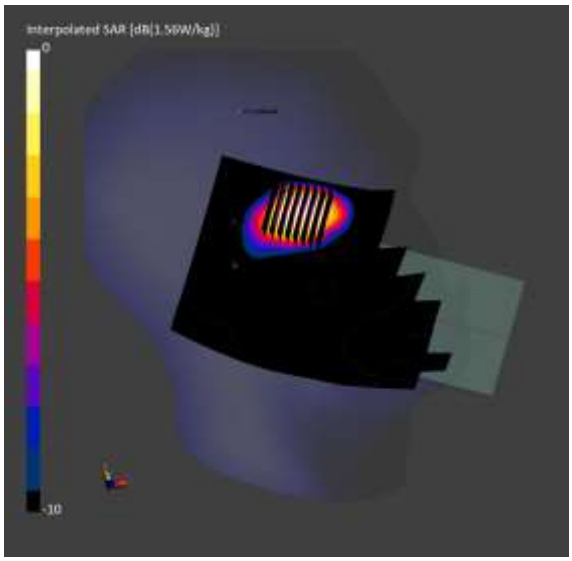
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 4.6 x 4.6 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.488 | 0.704 |
| psSAR10g [W/Kg] | 0.270 | 0.318 |
| Power Drift [dB] | -0.19 | 0.15 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.7 ℃** |
| **Liquid Temperature:** | **22.6 ℃** |
| **Test Date:** | **03/29/2024** |
| **Plot No.:** | **A16** |

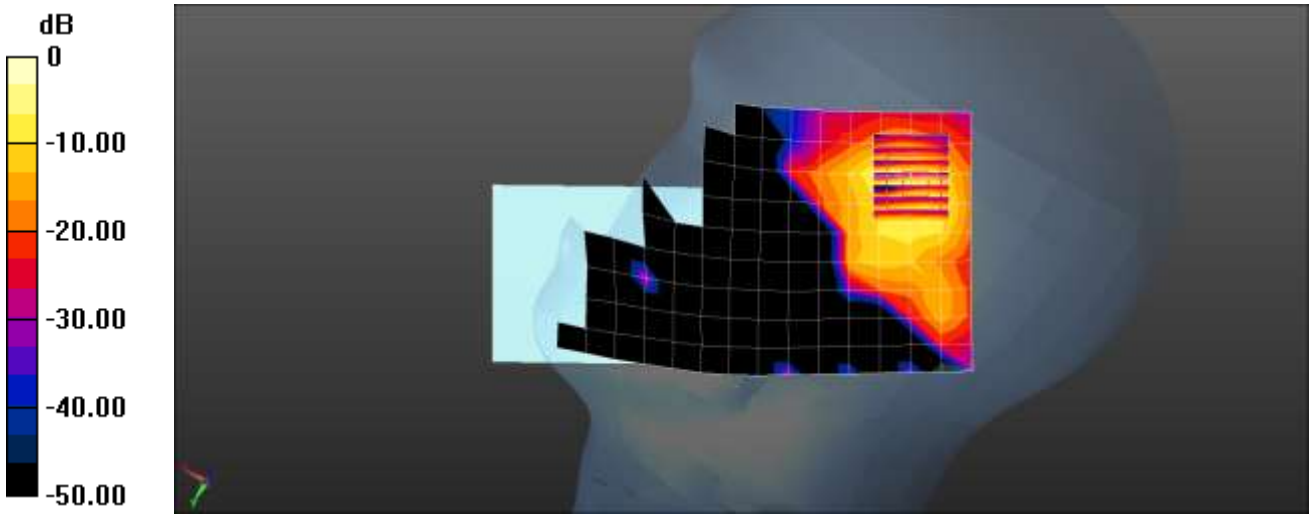
Communication System: UID 0, NR n77 [FCC] (0); Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 3500.01 MHz; $\sigma$ = 2.967 S/m; $\varepsilon_r$ = 38.236; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500.01 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n77 Head Right Touch DFT-s QPSK 100MHz 1RB 271offset 633334ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.856 W/kg

**NR Band n77 Head Right Touch DFT-s QPSK 100MHz 1RB 271offset 633334ch/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 5.234 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 2.20 W/kg
**SAR(1 g) = 0.629 W/kg; SAR(10 g) = 0.198 W/kg**
Maximum value of SAR (measured) = 1.48 W/kg




0 dB = 1.48 W/kg = 1.70 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.3 ℃** |
| **Liquid Temperature:** | **22.2 ℃** |
| **Test Date:** | **03/12/2024** |
| **Plot No.:** | **A17** |

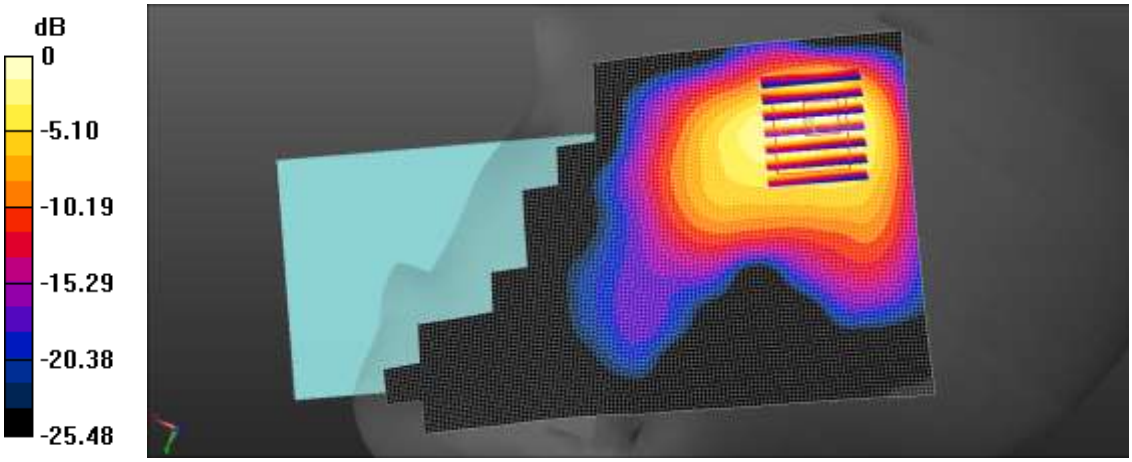
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; $\sigma$ = 1.848 S/m; $\varepsilon_r$ = 39.226; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2462 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**802.11b Head Right Touch 1Mbps 11ch/Area Scan (91x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.59 W/kg

**802.11b Head Right Touch 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.139 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.90 W/kg
**SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.361 W/kg**
Maximum value of SAR (measured) = 1.42 W/kg




0 dB = 1.42 W/kg = 1.52 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.4 ℃** |
| **Liquid Temperature:** | **21.3 ℃** |
| **Test Date:** | **03/18/2024** |
| **Plot No.:** | **A18** |

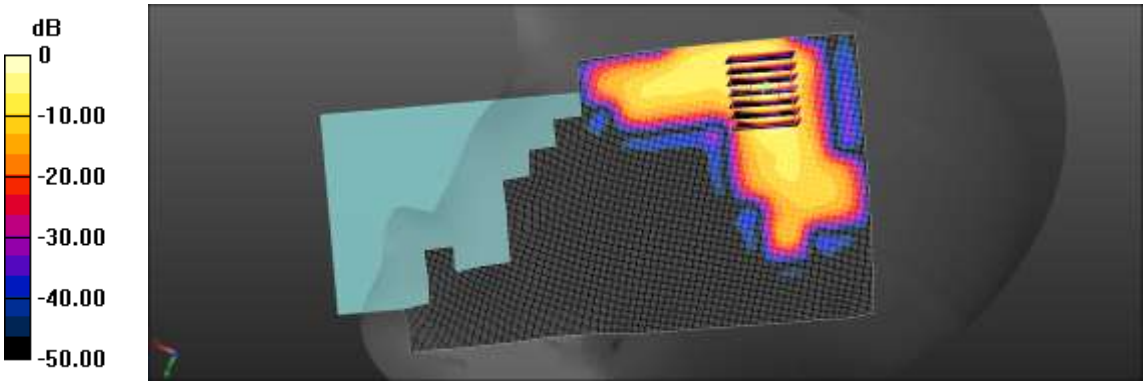
Communication System: UID 0, WIFI UNII4 (0); Frequency: 5845 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5845 MHz; $\sigma$ = 5.125 S/m; $\varepsilon_r$ = 36.324; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.24, 5.24, 5.24) @ 5845 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**802.11a Head Right Touch 6Mbps 169ch/Area Scan (101x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.08 W/kg

**802.11a Head Right Touch 6Mbps 169ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.568 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 4.26 W/kg
**SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.219 W/kg**
Maximum value of SAR (measured) = 2.53 W/kg




0 dB = 2.53 W/kg = 4.03 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 22.6 ℃
**Liquid Temperature:** 22.6 ℃
**Test Date:** 04/30/2024
**Plot No.:** A19

**DUT: SM-F741B; Type: Bar**

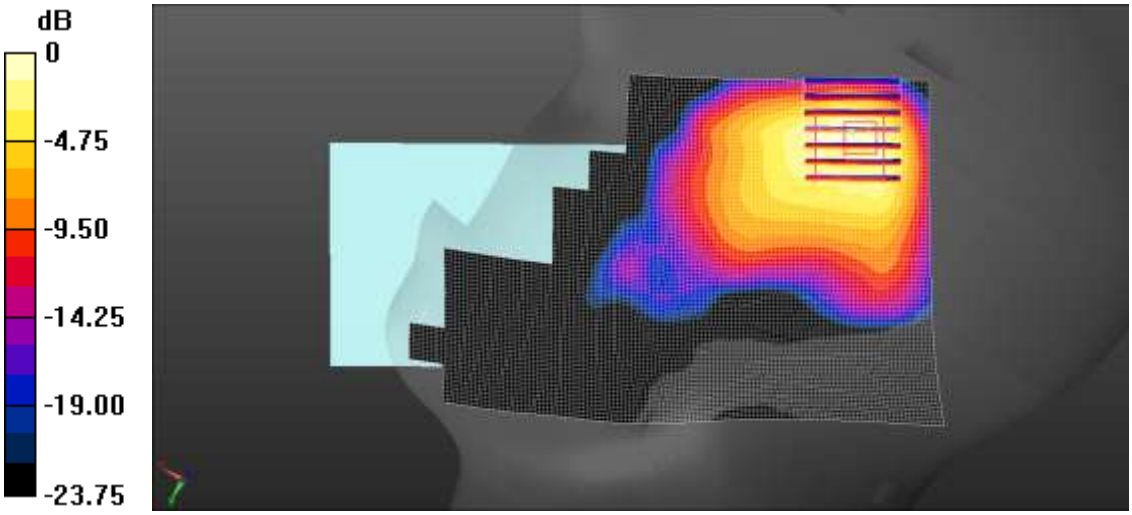
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2480 MHz; $\sigma$ = 1.797 S/m; $\varepsilon_r$ = 37.638; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2480 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Bluetooth Head Right Touch DH5 78ch/Area Scan (91x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.38 W/kg

**Bluetooth Head Right Touch DH5 78ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.703 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.82 W/kg
**SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.363 W/kg**
Maximum value of SAR (measured) = 1.37 W/kg




0 dB = 1.37 W/kg = 1.37 dBW/kg

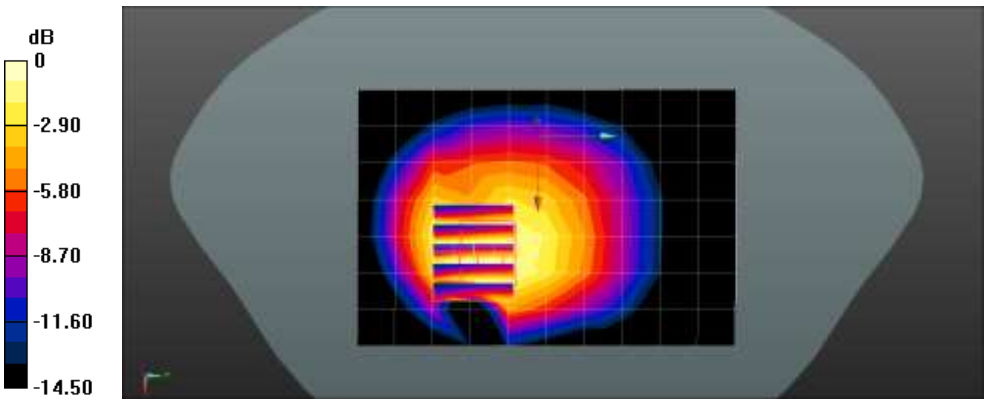
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.5 ℃** |
| **Liquid Temperature:** | **21.4 ℃** |
| **Test Date:** | **03/19/2024** |
| **Plot No.:** | **B1** |

Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07491
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.921 S/m; $\varepsilon_r$ = 41.335; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 836.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**GSM850 4Tx BodyWorn Rear 190ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.441 W/kg
**GSM850 4Tx BodyWorn Rear 190ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.67 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.535 W/kg
**SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.228 W/kg**
Maximum value of SAR (measured) = 0.467 W/kg




0 dB = 0.467 W/kg = -3.31 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.1 ℃** |
| **Liquid Temperature:** | **22.0 ℃** |
| **Test Date:** | **03/21/2024** |
| **Plot No.:** | **B2** |

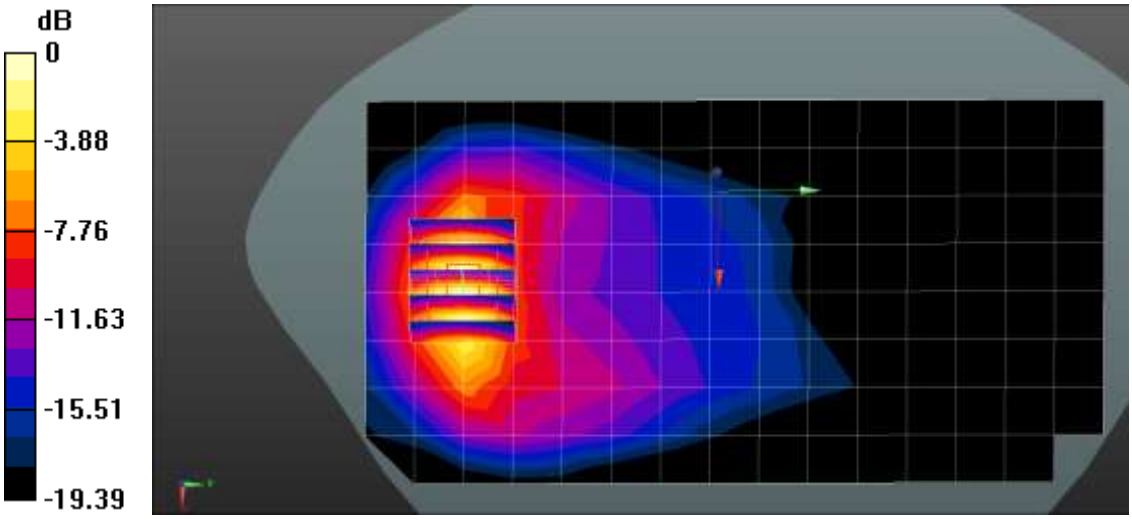
Communication System: UID 0, GSM 1900 (0); Frequency: 1909.8 MHz;Duty Cycle: 1:8.30042
Medium parameters used: f = 1910 MHz; $\sigma$ = 1.409 S/m; $\varepsilon_r$ = 39.329; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1909.8 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**GSM1900 4Tx BodyWorn Rear 810ch/Area Scan (9x16x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.657 W/kg

**GSM1900 4Tx BodyWorn Rear 810ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.128 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.758 W/kg
**SAR(1 g) = 0.413 W/kg; SAR(10 g) = 0.206 W/kg**
Maximum value of SAR (measured) = 0.637 W/kg




0 dB = 0.637 W/kg = -1.96 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **20.1 ℃** |
| **Liquid Temperature:** | **20.0 ℃** |
| **Test Date:** | **03/18/2024** |
| **Plot No.:** | **B3** |

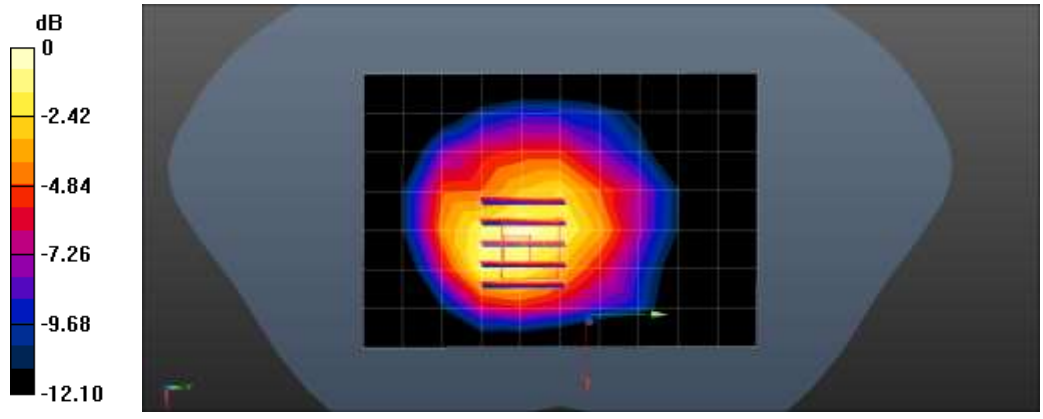
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.905 S/m; $\varepsilon_r$ = 41.31; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 836.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 5 BodyWorn Rear 4183ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.729 W/kg

**UMTS Band 5 BodyWorn Rear 4183ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.17 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.864 W/kg
**SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.389 W/kg**
Maximum value of SAR (measured) = 0.768 W/kg




0 dB = 0.768 W/kg = -1.15 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/15/2024** |
| **Plot No.:** | **B4** |

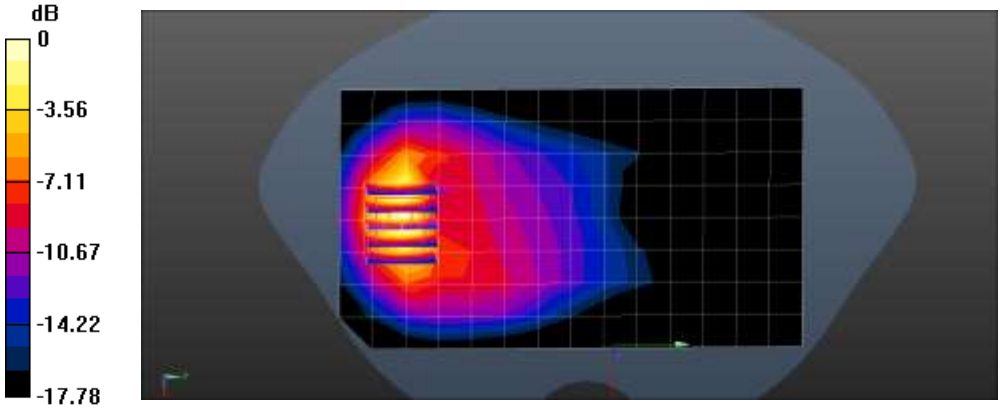
Communication System: UID 0, WCDMA IV (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma$ = 1.331 S/m; $\varepsilon_r$ = 41.267; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.29, 8.71, 8.9) @ 1752.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 4 Bodyworn Rear 1513ch/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.39 W/kg

**UMTS Band 4 Bodyworn Rear 1513ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.270 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.67 W/kg
**SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.515 W/kg**
Maximum value of SAR (measured) = 1.44 W/kg




0 dB = 1.44 W/kg = 1.58 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/14/2024** |
| **Plot No.:** | **B5** |

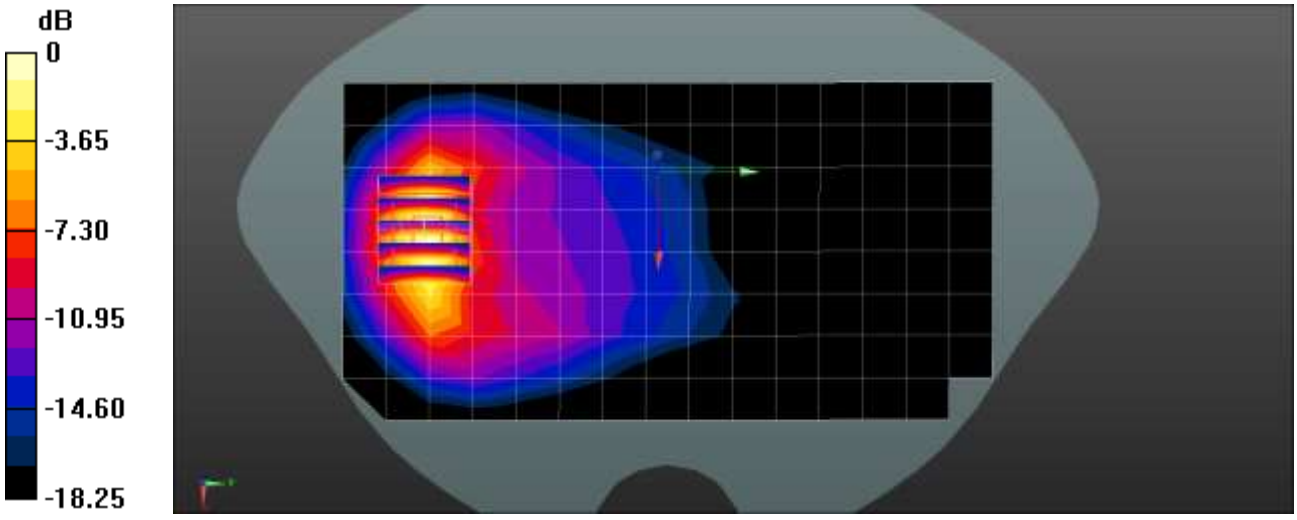
Communication System: UID 0, WCDMA1900 (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma$ = 1.359 S/m; $\varepsilon_r$ = 39.17; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1852.4 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Bodyworn Rear 9262ch/Area Scan (9x16x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.33 W/kg

**UMTS Band 2 Bodyworn Rear 9262ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.370 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.68 W/kg
**SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.491 W/kg**
Maximum value of SAR (measured) = 1.42 W/kg




0 dB = 1.42 W/kg = 1.52 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.8 ℃** |
| **Liquid Temperature:** | **22.5 ℃** |
| **Test Date:** | **04/24/2024** |
| **Plot No.:** | **B6** |

Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; $\sigma$ = 0.869 S/m; $\varepsilon_r$ = 43.253; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

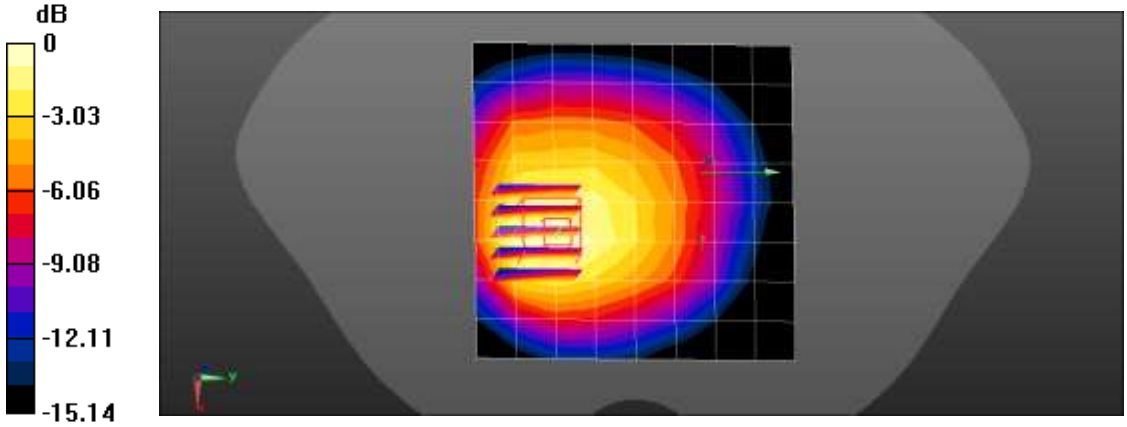
DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 707.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 12 BodyWorn Rear QPSK 10MHz 25RB 0offset 23095ch/Area Scan (9x9x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.321 W/kg

**LTE Band 12 BodyWorn Rear QPSK 10MHz 25RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.75 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.156 W/kg
Maximum value of SAR (measured) = 0.320 W/kg




0 dB = 0.320 W/kg = -4.95 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.5 ℃** |
| **Liquid Temperature:** | **21.4 ℃** |
| **Test Date:** | **04/26/2024** |
| **Plot No.:** | **B7** |

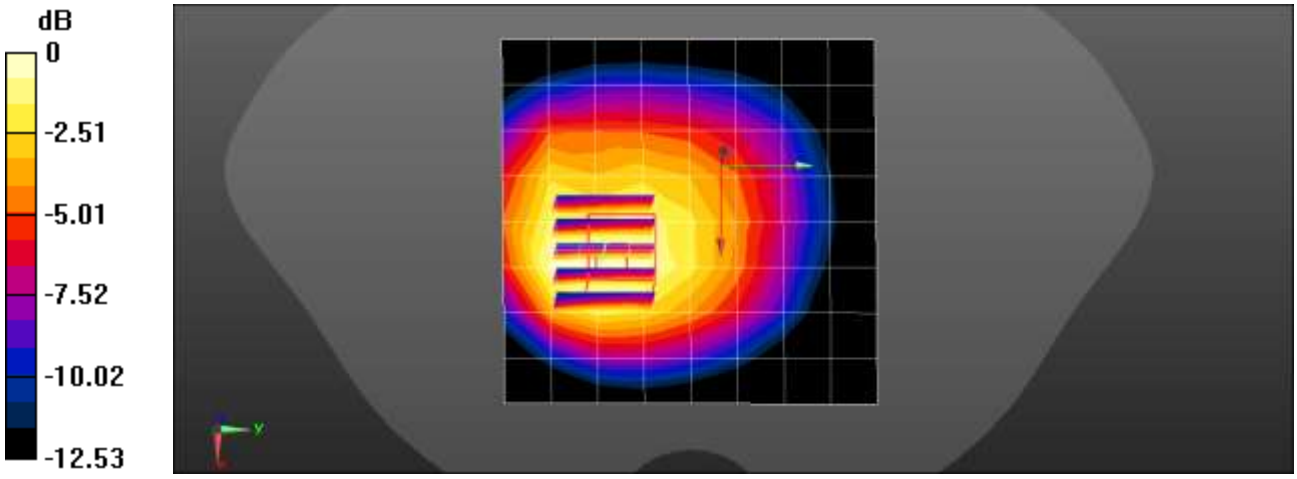
Communication System: UID 0, LTE 13; Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; $\sigma$ = 0.932 S/m; $\varepsilon_r$ = 42.166; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 782 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 13 BodyWorn Rear QPSK 10MHz 25RB 12offset 23230ch/Area Scan (9x9x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.431 W/kg

**LTE Band 13 BodyWorn Rear QPSK 10MHz 25RB 12offset 23230ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.58 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.464 W/kg
**SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.222 W/kg**
Maximum value of SAR (measured) = 0.423 W/kg




0 dB = 0.423 W/kg = -3.74 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 23.4 ℃
**Liquid Temperature:** 23.2 ℃
**Test Date:** 04/08/2024
**Plot No.:** B8
**Measurement Report for Device, BACK, Band 25, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) Channel 26590 (1905.0 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, HSL | BACK, 10.00 | Band 25 | LTE-FDD, 10297-AAE | 1905.0, 26590 | 8.81 | 1.43 | 38.9 |

**Hardware Setup**

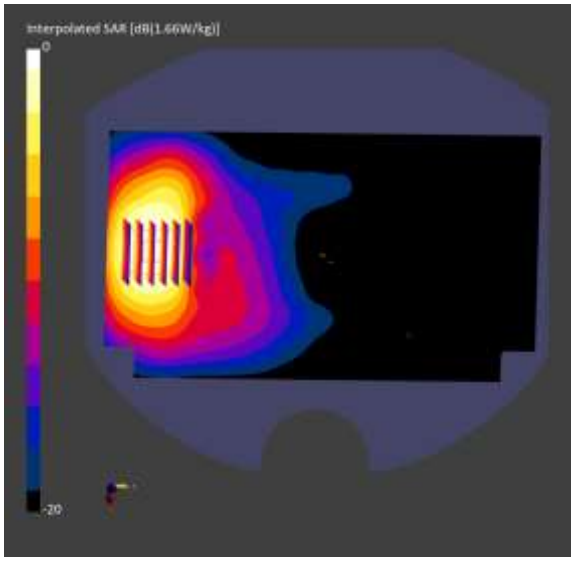
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.804 | 0.952 |
| psSAR10g [W/Kg] | 0.454 | 0.497 |
| Power Drift [dB] | -0.15 | -0.09 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **23.2 ℃** |
| **Liquid Temperature:** | **23.1 ℃** |
| **Test Date:** | **04/01/2024** |
| **Plot No.:** | **B9** |

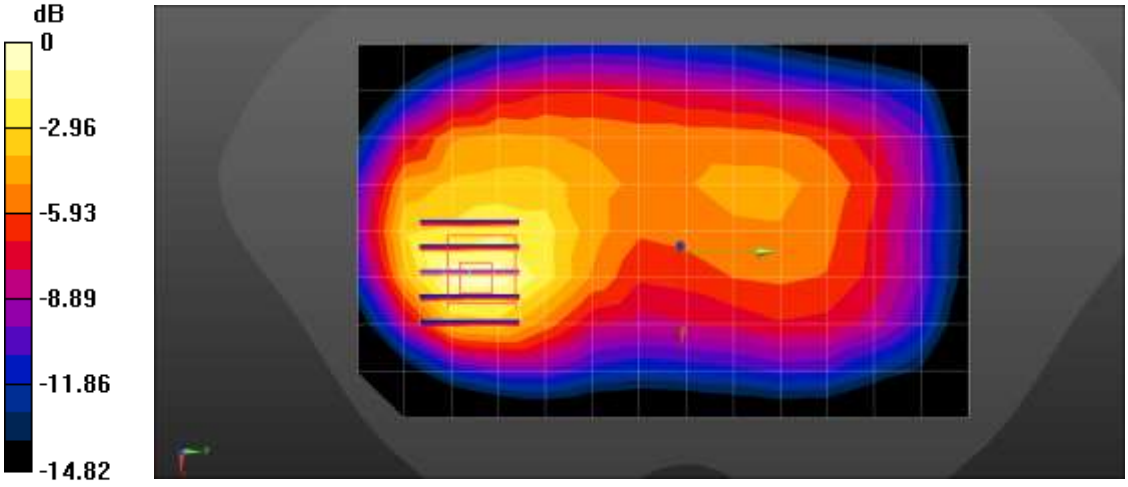
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; $\sigma$ = 0.931 S/m; $\varepsilon_r$ = 40.743; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 831.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 26 Bodyworn Rear QPSK 15MHz 1RB 36offset 26865ch/Area Scan (9x14x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.515 W/kg

**LTE Band 26 Bodyworn Rear QPSK 15MHz 1RB 36offset 26865ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.95 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.633 W/kg
**SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.234 W/kg**
Maximum value of SAR (measured) = 0.555 W/kg




0 dB = 0.555 W/kg = -2.56 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 24.1 ℃
**Liquid Temperature:** 24.0 ℃
**Test Date:** 04/11/2024
**Plot No.:** B10
**Measurement Report for Device, BACK, Band 66, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK), Channel 132572 (1770.0 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, HSL | BACK, 10.00 | Band 66 | LTE-FDD, 10297-AAE | 1770.0, 132572 | 9.17 | 1.36 | 41.2 |

**Hardware Setup**

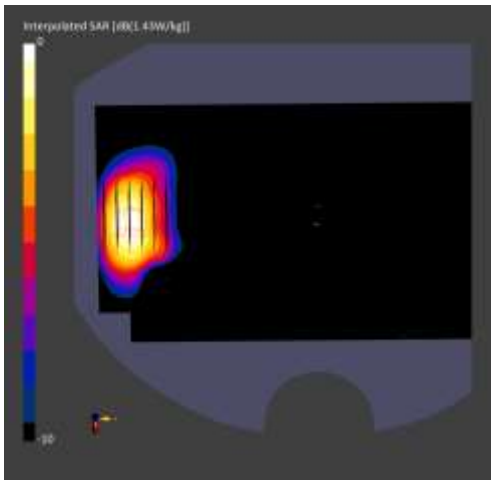
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.797 | 0.817 |
| psSAR10g [W/Kg] | 0.420 | 0.428 |
| Power Drift [dB] | 0.13 | -0.03 |



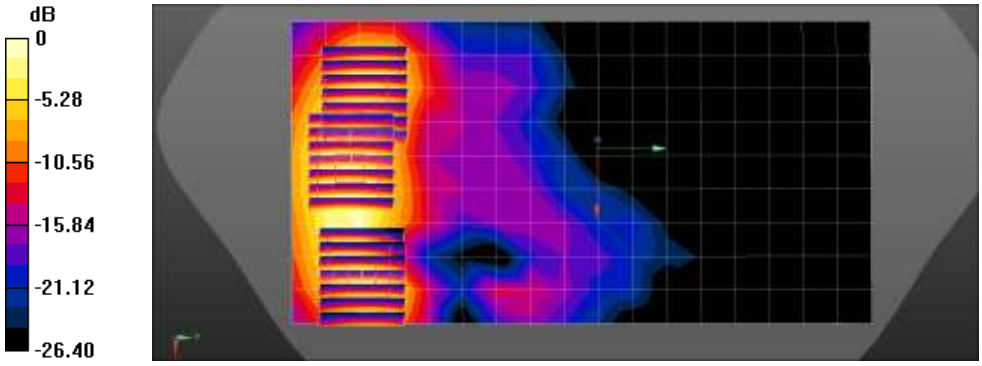
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.3 ℃** |
| **Liquid Temperature:** | **19.1 ℃** |
| **Test Date:** | **03/19/2024** |
| **Plot No.:** | **B11** |

Communication System: UID 0, LTE Band41 (0); Frequency: 2549.5 MHz;Duty Cycle: 1:1.58016
Medium parameters used: f = 2550 MHz; $\sigma$ = 1.911 S/m; $\varepsilon_r$ = 38.494; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2549.5 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 41 BodyWorn Rear QPSK 20MHz 1RB 0offset 40185ch/Area Scan (10x18x1):**
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.685 W/kg
**LTE Band 41 BodyWorn Rear QPSK 20MHz 1RB 0offset 40185ch/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.378 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.05 W/kg
**SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.222 W/kg**
Maximum value of SAR (measured) = 0.833 W/kg
**LTE Band 41 BodyWorn Rear QPSK 20MHz 1RB 0offset 40185ch/Zoom Scan (7x7x7)/Cube 1:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.378 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.773 W/kg
**SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.139 W/kg**
Maximum value of SAR (measured) = 0.590 W/kg
**LTE Band 41 BodyWorn Rear QPSK 20MHz 1RB 0offset 40185ch/Zoom Scan (7x7x7)/Cube 2:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.378 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.928 W/kg
**SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.164 W/kg**
Maximum value of SAR (measured) = 0.731 W/kg




0 dB = 0.731 W/kg = -1.36 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.4 ℃** |
| **Liquid Temperature:** | **19.3 ℃** |
| **Test Date:** | **03/29/2024** |
| **Plot No.:** | **B12** |

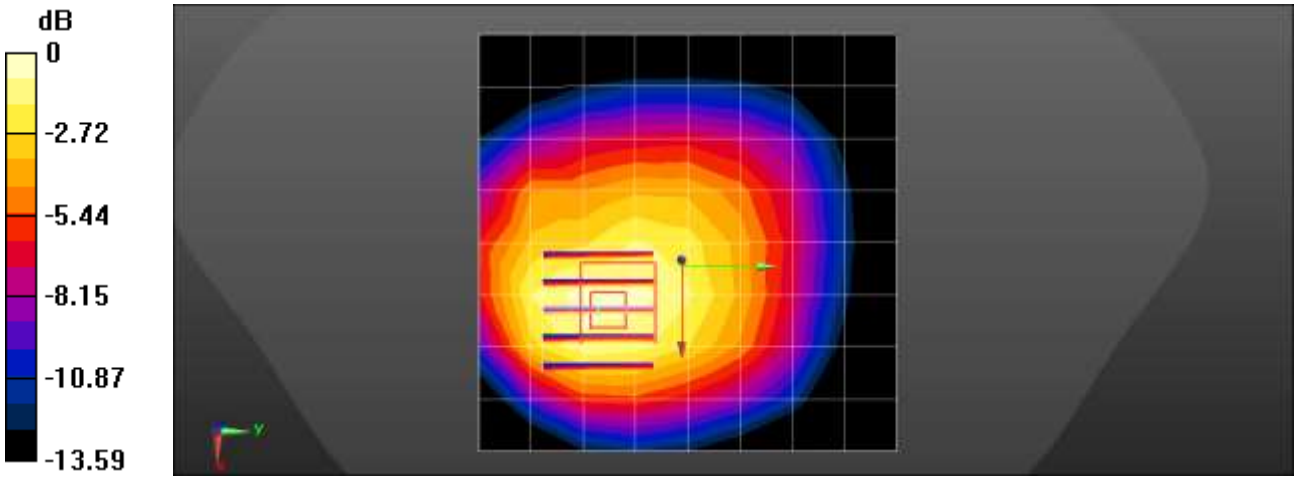
Communication System: UID 0, 5G nr (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.922 S/m; $\varepsilon_r$ = 40.748; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 836.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n5 BodyWorn Rear DFT-s QPSK 20MHz 1RB 53offset 167300ch/Area Scan (9x9x1):**
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.639 W/kg

**NR Band n5 BodyWorn Rear DFT-s QPSK 20MHz 1RB 53offset 167300ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.93 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.782 W/kg
**SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.353 W/kg**
Maximum value of SAR (measured) = 0.709 W/kg




0 dB = 0.709 W/kg = -1.49 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 24.7 ℃
**Liquid Temperature:** 24.5 ℃
**Test Date:** 04/19/2024
**Plot No.:** B13
**Measurement Report for Device, BACK, Band n25, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) Channel 376500 (1882.5 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, HSL | BACK, 10.00 | Band n25 | 5G NR FR1 FDD, 10942-AAC | 1882.5, 376500 | 8.81 | 1.37 | 39.1 |

**Hardware Setup**

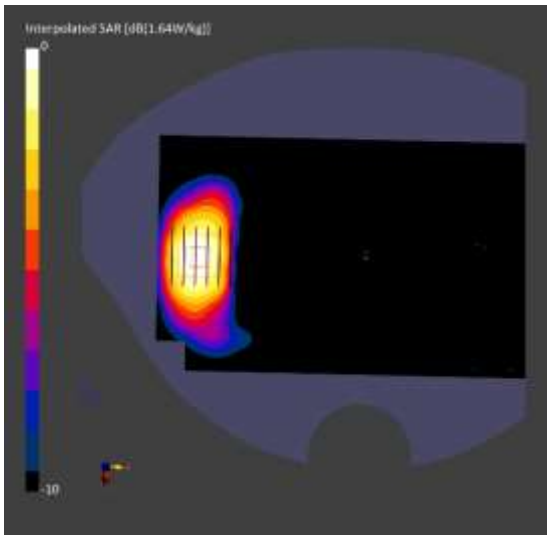
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.793 | 0.924 |
| psSAR10g [W/Kg] | 0.449 | 0.480 |
| Power Drift [dB] | -0.12 | -0.13 |



**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 23.5 ℃
**Liquid Temperature:** 23.3 ℃
**Test Date:** 04/13/2024
**Plot No.:** B14
**Measurement Report for Device, BACK, Band n66, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) Channel 349000 (1745.0 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, HSL | BACK, 10.00 | Band n66 | 5G NR FR1 FDD, 10934-AAC | 1745.0, 349000 | 9.17 | 1.24 | 39.6 |

**Hardware Setup**

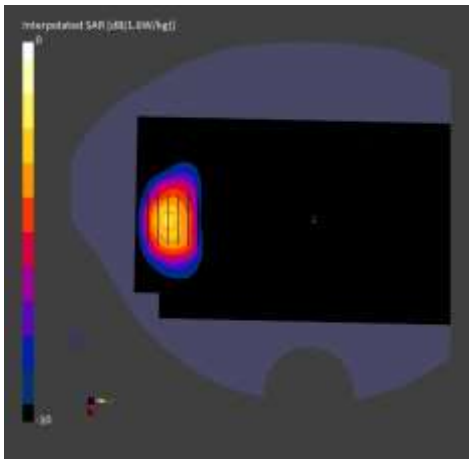
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.764 | 0.904 |
| psSAR10g [W/Kg] | 0.436 | 0.473 |
| Power Drift [dB] | 0.03 | 0.03 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.1 ℃** |
| **Liquid Temperature:** | **21.9 ℃** |
| **Test Date:** | **03/27/2024** |
| **Plot No.:** | **B15** |

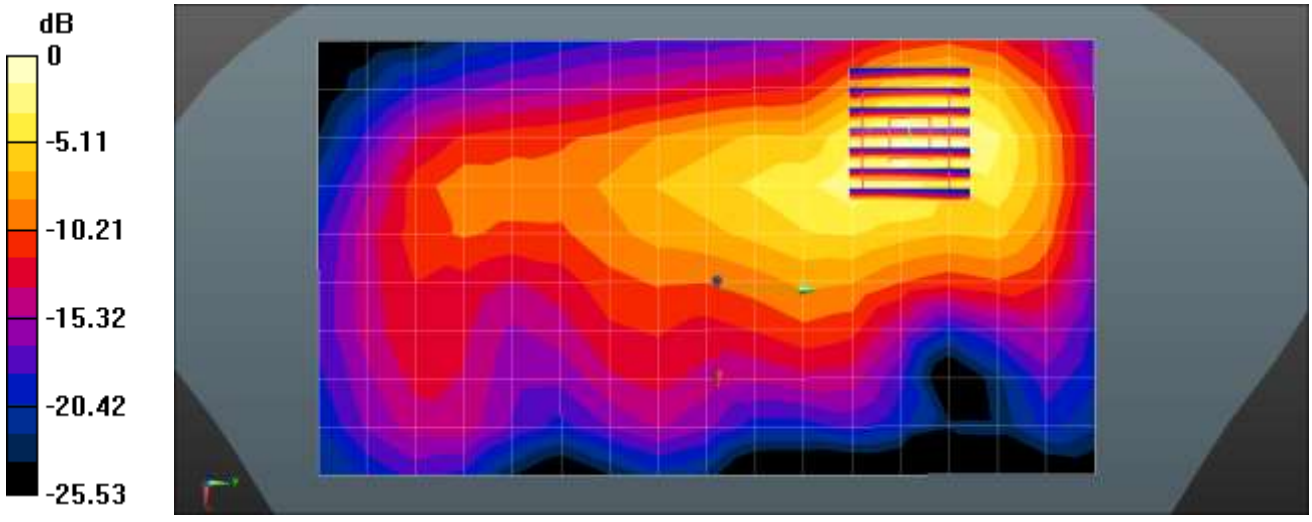
Communication System: UID 0, NR n41 (0); Frequency: 2592.99 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2592.99 MHz; $\sigma$ = 1.996 S/m; $\varepsilon_r$ = 39.182; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.87, 7.41, 7.6) @ 2592.99 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n41 Bodyworn Rear DFT-s QPSK 100MHz 270RB 0offset 518598ch/Area Scan (10x17x1):**
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.24 W/kg

**NR Band n41 Bodyworn Rear DFT-s QPSK 100MHz 270RB 0offset 518598ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.886 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.62 W/kg
**SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.352 W/kg**
Maximum value of SAR (measured) = 1.30 W/kg




0 dB = 1.30 W/kg = 1.14 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.1 ℃** |
| **Liquid Temperature:** | **21.9 ℃** |
| **Test Date:** | **02/22/2024** |
| **Plot No.:** | **B16** |

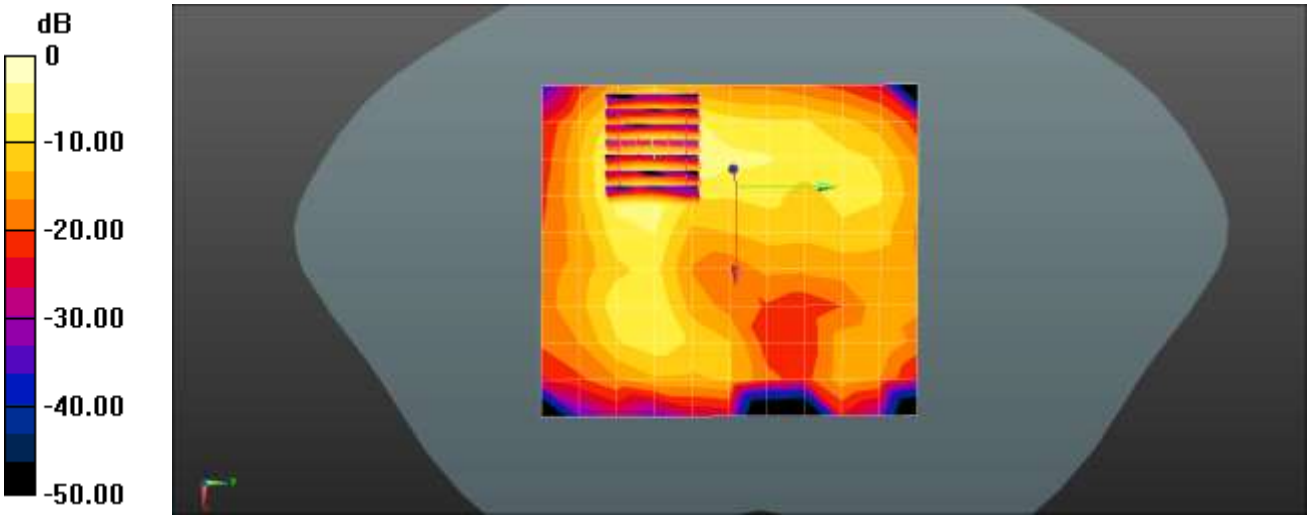
Communication System: UID 0, NR n77 [FCC] (0); Frequency: 3930 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3930 MHz; $\sigma$ = 3.307 S/m; $\varepsilon_r$ = 36.675; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3930 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n77 BodyWorn Front DFT-s QPSK 100MHz 1RB 271offset 662000ch/Area Scan (10x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.905 W/kg

**NR Band n77 BodyWorn Front DFT-s QPSK 100MHz 1RB 271offset 662000ch/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 2.394 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.30 W/kg
**SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.165 W/kg**
Maximum value of SAR (measured) = 0.922 W/kg




0 dB = 0.922 W/kg = -0.35 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **20.3 ℃** |
| **Liquid Temperature:** | **20.2 ℃** |
| **Test Date:** | **02/22/2024** |
| **Plot No.:** | **B17** |

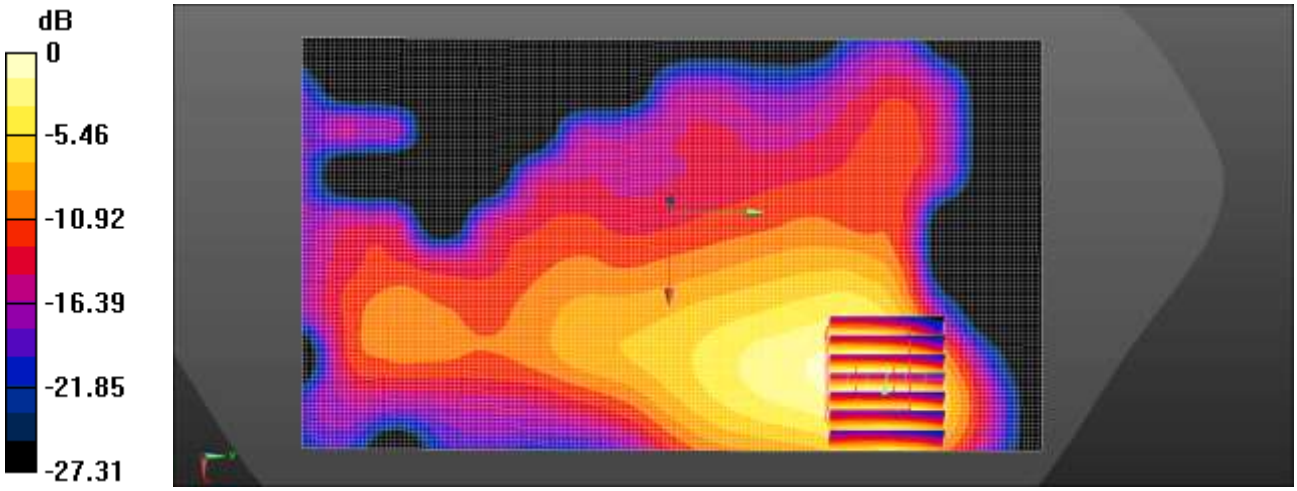
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2412 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2412 MHz; $\sigma$ = 1.807 S/m; $\varepsilon_r$ = 39.159; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2412 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**802.11b Body Rear 1Mbps 1ch/Area Scan (91x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.437 W/kg

**802.11b Body Rear 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.491 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.533 W/kg
**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.132 W/kg**
Maximum value of SAR (measured) = 0.431 W/kg




0 dB = 0.431 W/kg = -3.66 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 19.6 ℃
**Liquid Temperature:** 19.5 ℃
**Test Date:** 03/12/2024
**Plot No.:** B18

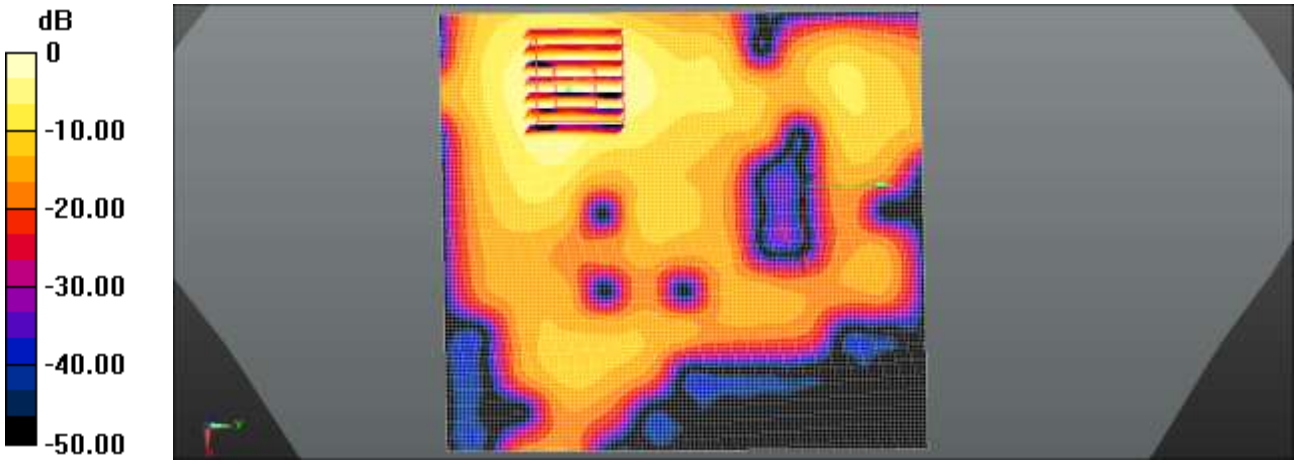
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5300 MHz; $\sigma$ = 4.687 S/m; $\varepsilon_r$ = 36.774; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(5.2, 5.2, 5.2) @ 5300 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

**802.11a Bodyworn Front 6Mbps 60ch/Area Scan (111x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.569 W/kg

**802.11a Bodyworn Front 6Mbps 60ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.239 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.946 W/kg
**SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.084 W/kg**
Maximum value of SAR (measured) = 0.585 W/kg




0 dB = 0.585 W/kg = -2.33 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.6 ℃** |
| **Liquid Temperature:** | **22.6 ℃** |
| **Test Date:** | **04/30/2024** |
| **Plot No.:** | **B19** |

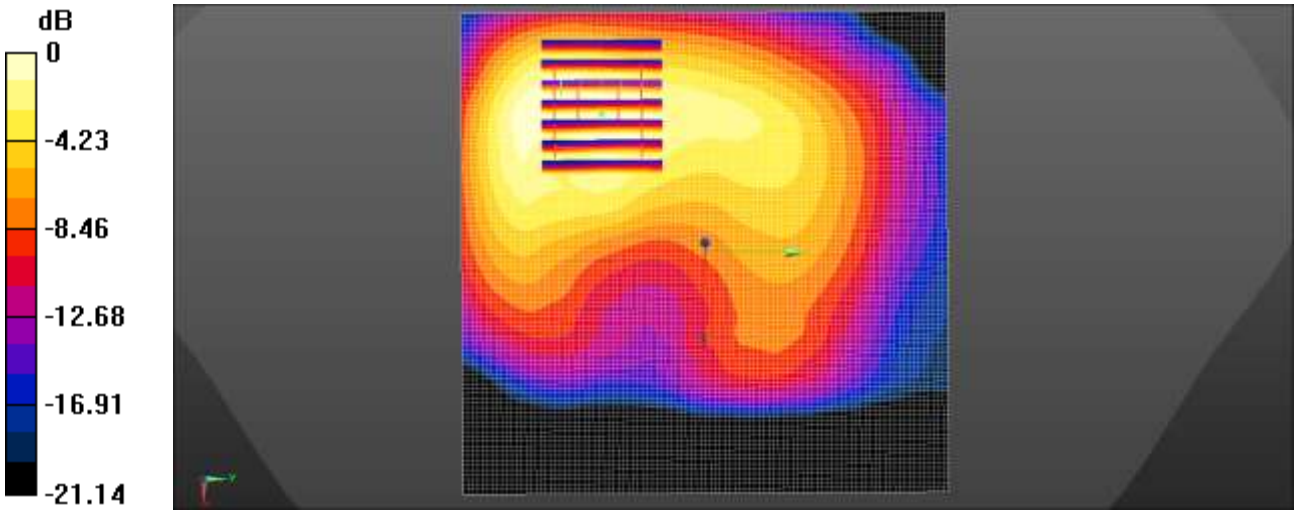
Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2402 MHz; $\sigma$ = 1.708 S/m; $\varepsilon_r$ = 37.945; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2402 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Bluetooth BodyWorn Front DH5 0ch/Area Scan (101x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.287 W/kg

**Bluetooth BodyWorn Front DH5 0ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.410 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.340 W/kg
**SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.098 W/kg**
Maximum value of SAR (measured) = 0.289 W/kg




0 dB = 0.289 W/kg = -5.39 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.5 ℃** |
| **Liquid Temperature:** | **21.4 ℃** |
| **Test Date:** | **03/19/2024** |
| **Plot No.:** | **C1** |

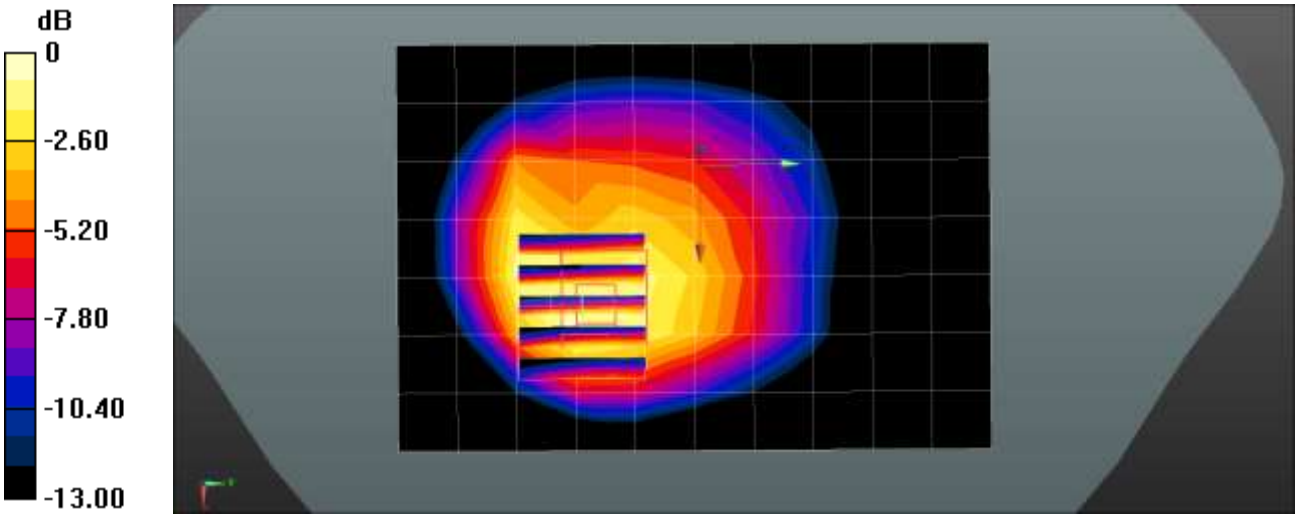
Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07491
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.921 S/m; $\varepsilon_r$ = 41.335; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 836.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**GSM850 4Tx Body Rear 190ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.236 W/kg

**GSM850 4Tx Body Rear 190ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.14 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.323 W/kg
**SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.126 W/kg**
Maximum value of SAR (measured) = 0.275 W/kg




0 dB = 0.275 W/kg = -5.61 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.1 ℃** |
| **Liquid Temperature:** | **22.0 ℃** |
| **Test Date:** | **03/21/2024** |
| **Plot No.:** | **C2** |

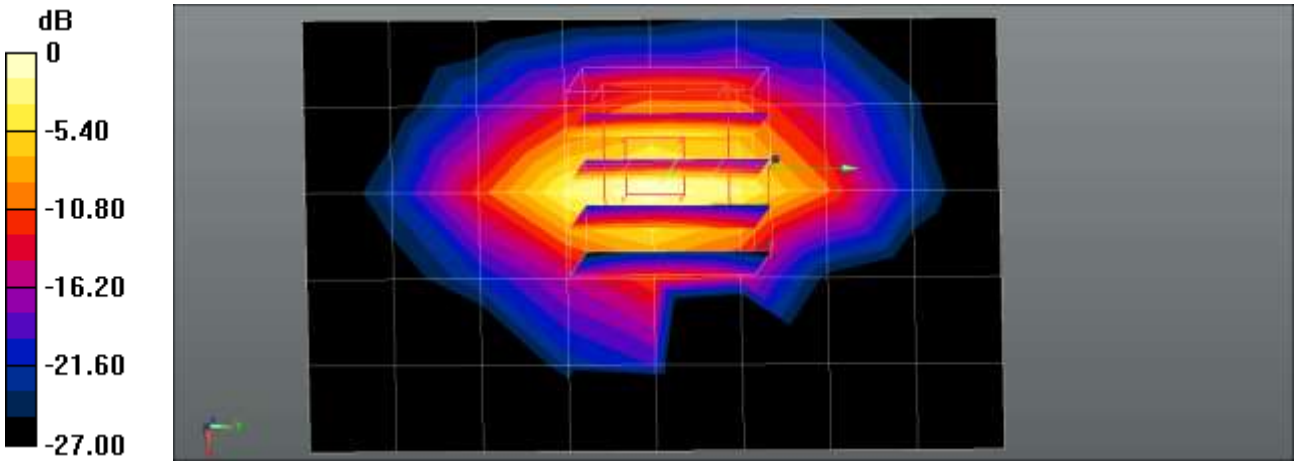
Communication System: UID 0, GSM 1900 3TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.77013
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.382 S/m; $\varepsilon_r$ = 39.457; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1880 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**GSM1900 3Tx Body Bottom 661ch/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.934 W/kg

**GSM1900 3Tx Body Bottom 661ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.694 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.25 W/kg
**SAR(1 g) = 0.540 W/kg; SAR(10 g) = 0.220 W/kg**
Maximum value of SAR (measured) = 1.01 W/kg




0 dB = 1.01 W/kg = 0.04 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **20.1 ℃** |
| **Liquid Temperature:** | **20.0 ℃** |
| **Test Date:** | **03/18/2024** |
| **Plot No.:** | **C3** |

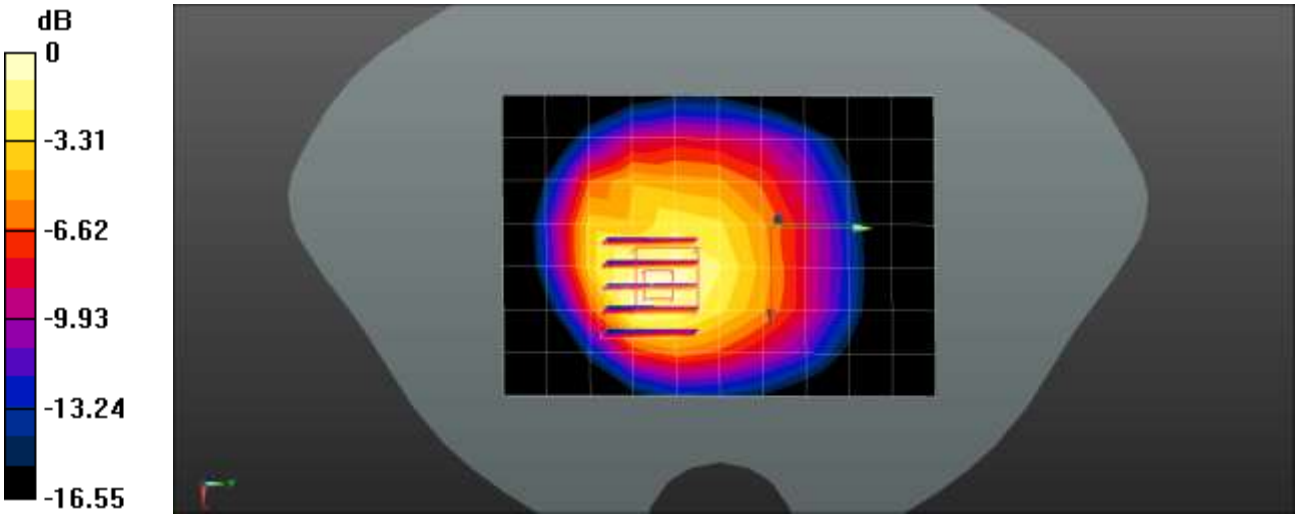
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.905 S/m; $\varepsilon_r$ = 41.31; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 836.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 5 Body Rear 4183ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.654 W/kg

**UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.17 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.835 W/kg
**SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.315 W/kg**
Maximum value of SAR (measured) = 0.719 W/kg




0 dB = 0.719 W/kg = -1.43 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/15/2024** |
| **Plot No.:** | **C4** |

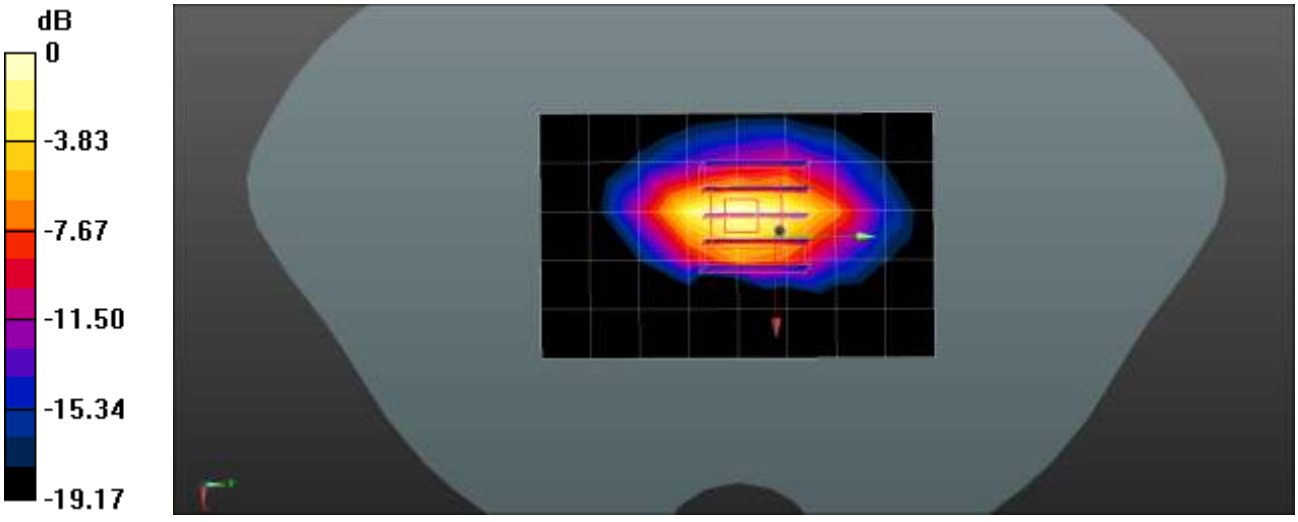
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; $\sigma$ = 1.312 S/m; $\varepsilon_r$ = 41.33; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.29, 8.71, 8.9) @ 1732.4 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 4 Body Bottom 1412ch/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.05 W/kg

**UMTS Band 4 Body Bottom 1412ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.52 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.27 W/kg
**SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.337 W/kg**
Maximum value of SAR (measured) = 0.968 W/kg




0 dB = 0.968 W/kg = -0.14 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/14/2024** |
| **Plot No.:** | **C5** |

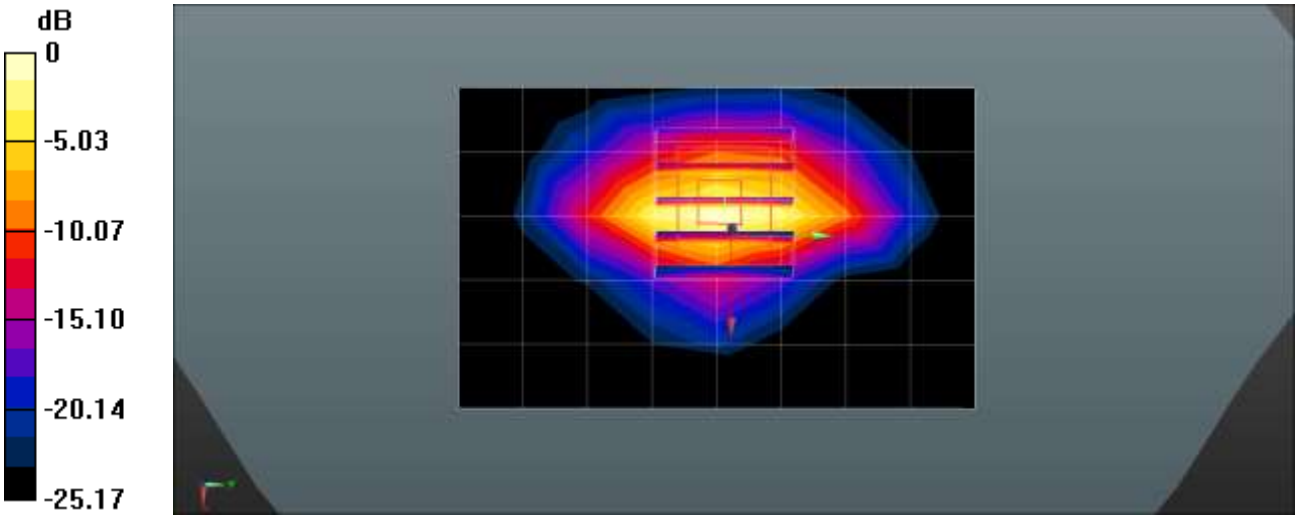
Communication System: UID 0, WCDMA1900 (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma$ = 1.407 S/m; $\varepsilon_r$ = 38.884; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1907.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Body Bottom 9538ch/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.77 W/kg

**UMTS Band 2 Body Bottom 9538ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.12 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.12 W/kg
**SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.410 W/kg**
Maximum value of SAR (measured) = 1.80 W/kg




0 dB = 1.80 W/kg = 2.55 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.8 ℃** |
| **Liquid Temperature:** | **22.5 ℃** |
| **Test Date:** | **04/24/2024** |
| **Plot No.:** | **C6** |

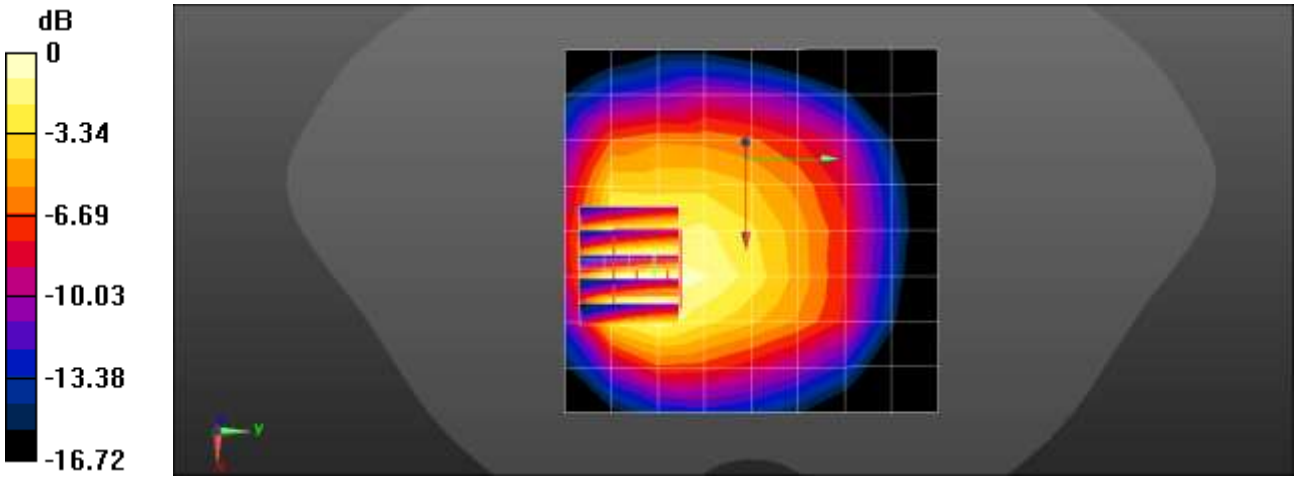
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; $\sigma$ = 0.869 S/m; $\varepsilon_r$ = 43.253; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 707.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 12 Body Rear QPSK 10MHz 25RB 0offset 23095ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.580 W/kg

**LTE Band 12 Body Rear QPSK 10MHz 25RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.37 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.680 W/kg
**SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.270 W/kg**
Maximum value of SAR (measured) = 0.585 W/kg




0 dB = 0.590 W/kg = -2.33 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.5 ℃** |
| **Liquid Temperature:** | **21.4 ℃** |
| **Test Date:** | **04/26/2024** |
| **Plot No.:** | **C7** |

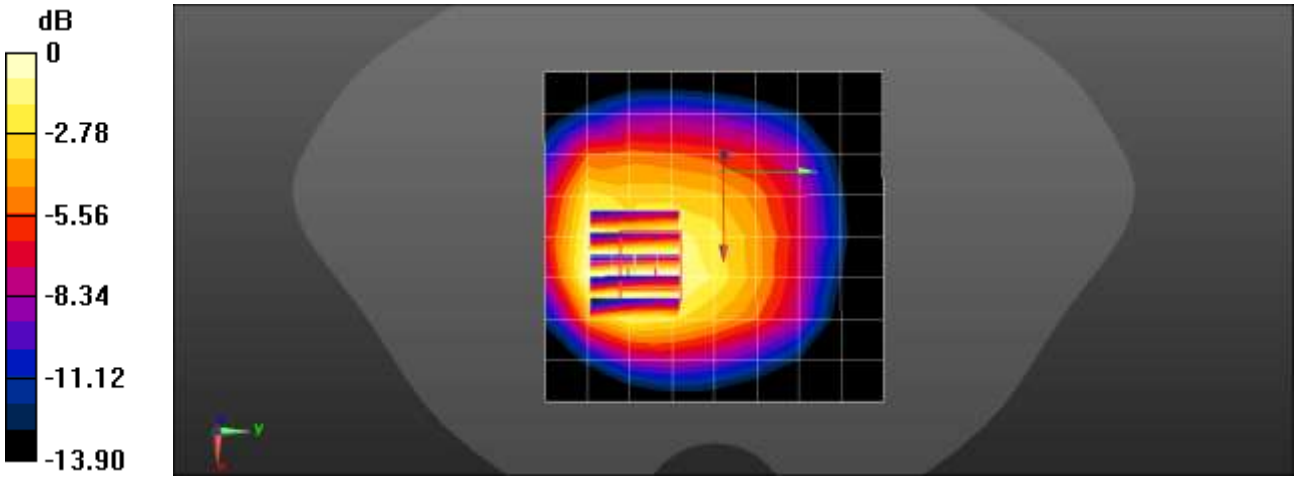
Communication System: UID 0, LTE 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; $\sigma$ = 0.932 S/m; $\varepsilon_r$ = 42.166; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 782 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 13 Body Rear QPSK 10MHz 25RB 12offset 23230ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.690 W/kg

**LTE Band 13 Body Rear QPSK 10MHz 25RB 12offset 23230ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.00 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.775 W/kg
**SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.334 W/kg**
Maximum value of SAR (measured) = 0.666 W/kg




0 dB = 0.666 W/kg = -1.77 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 23.3 ℃
**Liquid Temperature:** 23.2 ℃
**Test Date:** 04/09/2024
**Plot No.:** C8

**Measurement Report for Device, EDGE BOTTOM, Band 25, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) Channel 26590 (1905.0 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, HSL | EDGE BOTTOM, 5.00 | Band 25 | LTE-FDD, 10297-AAE | 1905.0, 26590 | 8.81 | 1.42 | 38.9 |

**Hardware Setup**

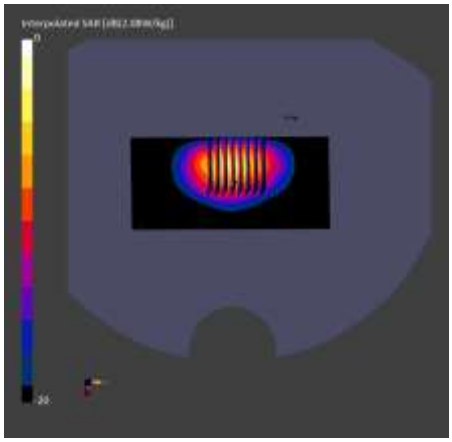
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 56.0 x 120.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 14.0 x 15.0 | 4.6 x 4.6 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.600 | 0.895 |
| psSAR10g [W/Kg] | 0.296 | 0.371 |
| Power Drift [dB] | -0.02 | 0.00 |



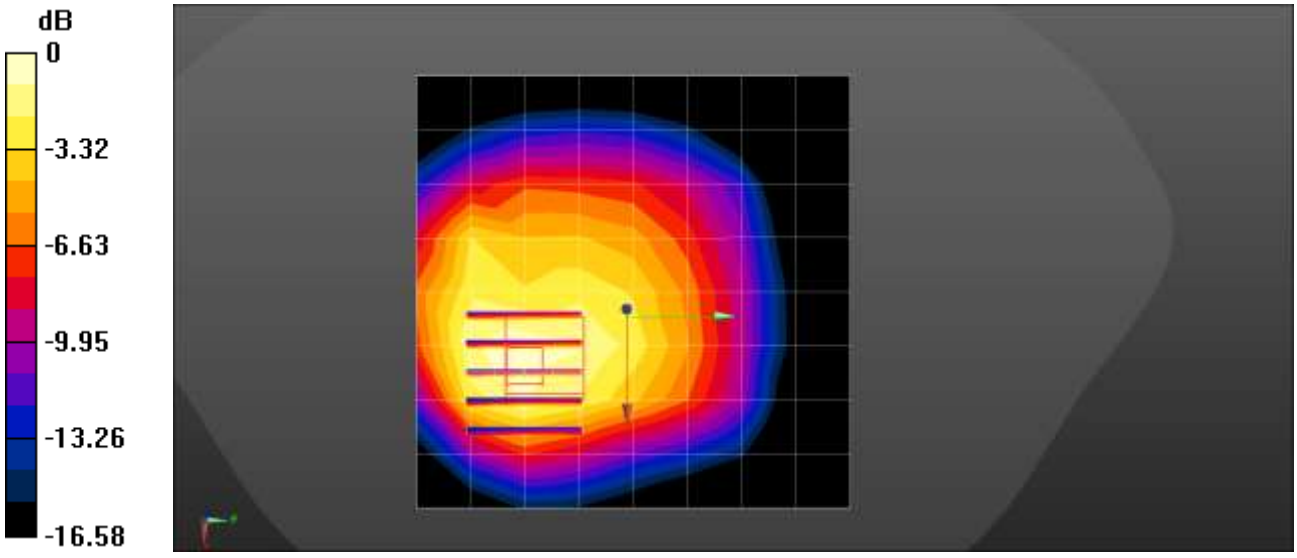
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **23.7 ℃** |
| **Liquid Temperature:** | **23.3 ℃** |
| **Test Date:** | **04/02/2024** |
| **Plot No.:** | **C9** |

Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; $\sigma$ = 0.928 S/m; $\varepsilon_r$ = 40.752; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 831.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**LTE Band 26 Body Rear QPSK 15MHz 36RB 0offset 26865ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.670 W/kg
**LTE Band 26 Body Rear QPSK 15MHz 36RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.68 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.899 W/kg
**SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.326 W/kg**
Maximum value of SAR (measured) = 0.736 W/kg




0 dB = 0.736 W/kg = -1.33 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.7 ℃** |
| **Liquid Temperature:** | **19.5 ℃** |
| **Test Date:** | **03/22/2024** |
| **Plot No.:** | **C10** |

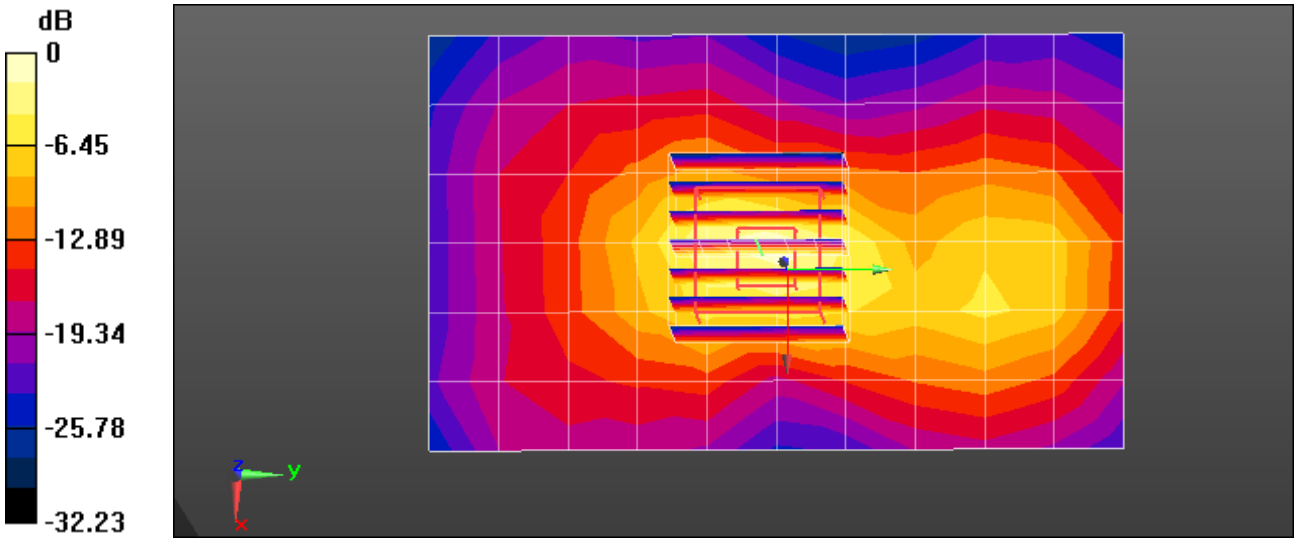
Communication System: UID 0, LTE Band41 (0); Frequency: 2680 MHz;Duty Cycle: 1:1.58016
Medium parameters used: f = 2680 MHz; $\sigma$ = 2.043 S/m; $\varepsilon_r$ = 38.213; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2680 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 41 Body Right QPSK 20MHz 1RB 0offset 41490ch/Area Scan (7x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.969 W/kg

**LTE Band 41 Body Right QPSK 20MHz 1RB 0offset 41490ch/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.85 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.46 W/kg
**SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.221 W/kg**
Maximum value of SAR (measured) = 1.13 W/kg




0 dB = 1.13 W/kg = 0.53 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 24.0 ℃
**Liquid Temperature:** 23.8 ℃
**Test Date:** 04/23/2024
**Plot No.:** C11
**Measurement Report for Device, EDGE RIGHT, Band 66, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) Channel 132572 (1770.0 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, HSL | EDGE RIGHT, 5.00 | Band 66 | LTE-FDD, 10169-CAF | 1770.0, 132572 | 9.17 | 1.36 | 41.3 |

**Hardware Setup**

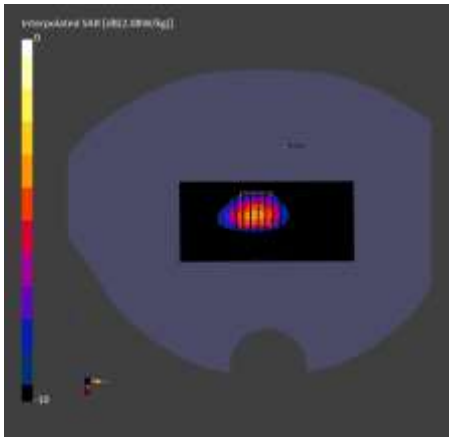
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 56.0 x 120.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 14.0 x 15.0 | 5.1 x 5.1 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.699 | 0.946 |
| psSAR10g [W/Kg] | 0.369 | 0.421 |
| Power Drift [dB] | -0.02 | 0.00 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.4 ℃** |
| **Liquid Temperature:** | **19.3 ℃** |
| **Test Date:** | **03/29/2024** |
| **Plot No.:** | **C12** |

Communication System: UID 0, 5G nr (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.922 S/m; $\varepsilon_r$ = 40.748; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

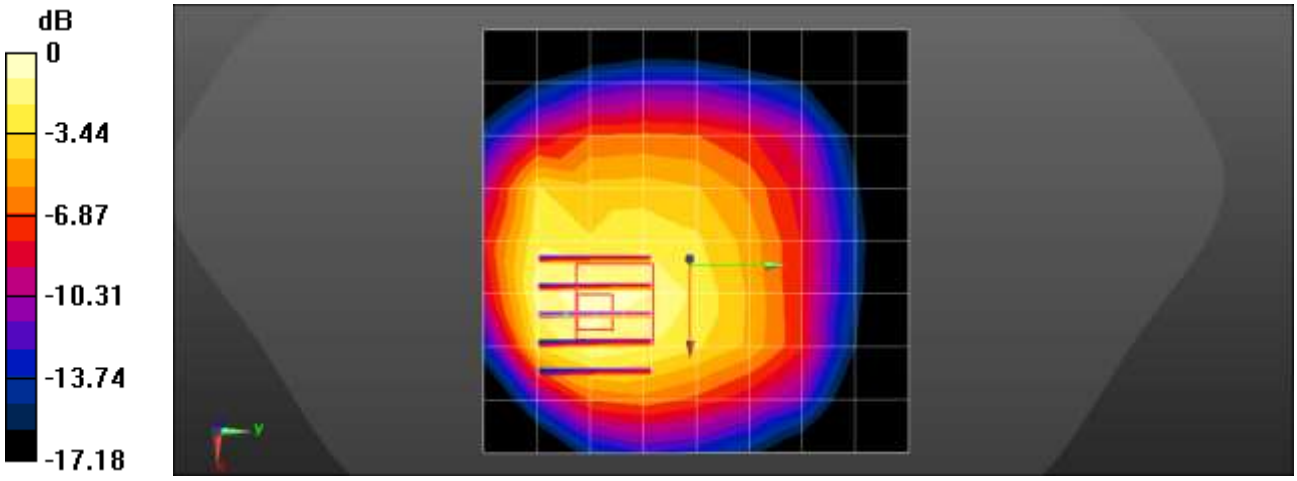
DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 836.5 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n5 Body Rear CP QPSK 20MHz 1RB 1offset 167300ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.648 W/kg

**NR Band n5 Body Rear CP QPSK 20MHz 1RB 1offset 167300ch/Zoom Scan (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.83 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.865 W/kg
**SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.314 W/kg**
Maximum value of SAR (measured) = 0.721 W/kg




0 dB = 0.721 W/kg = -1.42 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 24.0 ℃
**Liquid Temperature:** 23.8 ℃
**Test Date:** 04/20/2024
**Plot No.:** C13
**Measurement Report for Device, EDGE BOTTOM, Band n25, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, Channel 376500 (1882.5 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, HSL | EDGE BOTTOM, 5.00 | Band n25 | 5G NR FR1 FDD, 10942-AAC | 1882.5, 376500 | 8.81 | 1.48 | 40.9 |

**Hardware Setup**

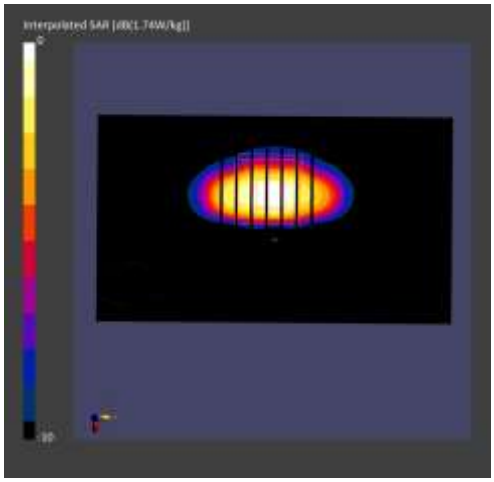
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 56.0 x 120.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 14.0 x 15.0 | 5.1 x 5.1 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.777 | 0.754 |
| psSAR10g [W/Kg] | 0.341 | 0.315 |
| Power Drift [dB] | -0.11 | -0.04 |



| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.7 ℃** |
| **Liquid Temperature:** | **22.6 ℃** |
| **Test Date:** | **03/28/2024** |
| **Plot No.:** | **C14** |

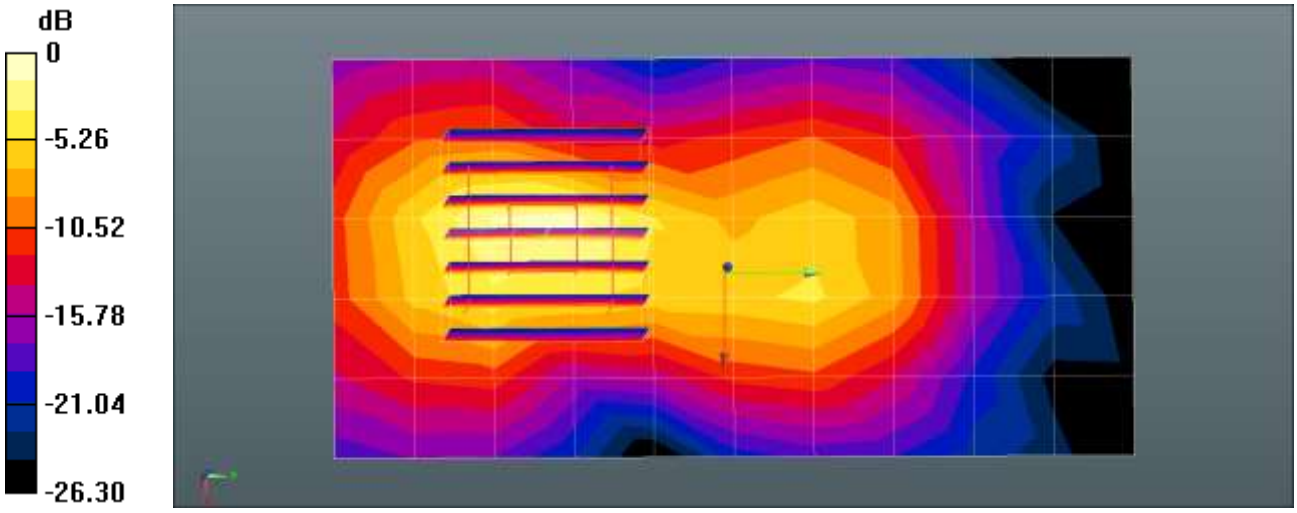
Communication System: UID 0, NR n41 (0); Frequency: 2592.99 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2592.99 MHz; $\sigma$ = 1.997 S/m; $\varepsilon_r$ = 39.152; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.87, 7.41, 7.6) @ 2592.99 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n41 Body Right DFT-s QPSK 100MHz 1RB 1offset 518598ch/Area Scan (6x11x1):**
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.12 W/kg

**NR Band n41 Body Right DFT-s QPSK 100MHz 1RB 1offset 518598ch/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.47 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.84 W/kg
**SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.315 W/kg**
Maximum value of SAR (measured) = 1.46 W/kg




0 dB = 1.46 W/kg = 1.64 dBW/kg

**Test Laboratory:** HCT CO., LTD
**EUT Type:** Mobile Phone
**Ambient Temperature:** 23.6 ℃
**Liquid Temperature:** 23.5 ℃
**Test Date:** 04/14/2024
**Plot No.:** C15

**Measurement Report for Device, EDGE BOTTOM, Band n66, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) Channel 349000 (1745.0 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, HSL | EDGE BOTTOM, 5.00 | Band n66 | 5G NR FR1 FDD, 10934-AAC | 1745.0, 349000 | 9.17 | 1.34 | 41.5 |

**Hardware Setup**

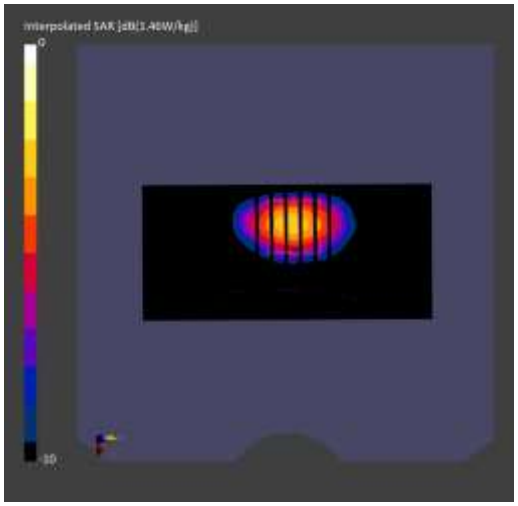
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 56.0 x 120.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 14.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 0.611 | 0.710 |
| psSAR10g [W/Kg] | 0.314 | 0.331 |
| Power Drift [dB] | -0.01 | -0.05 |



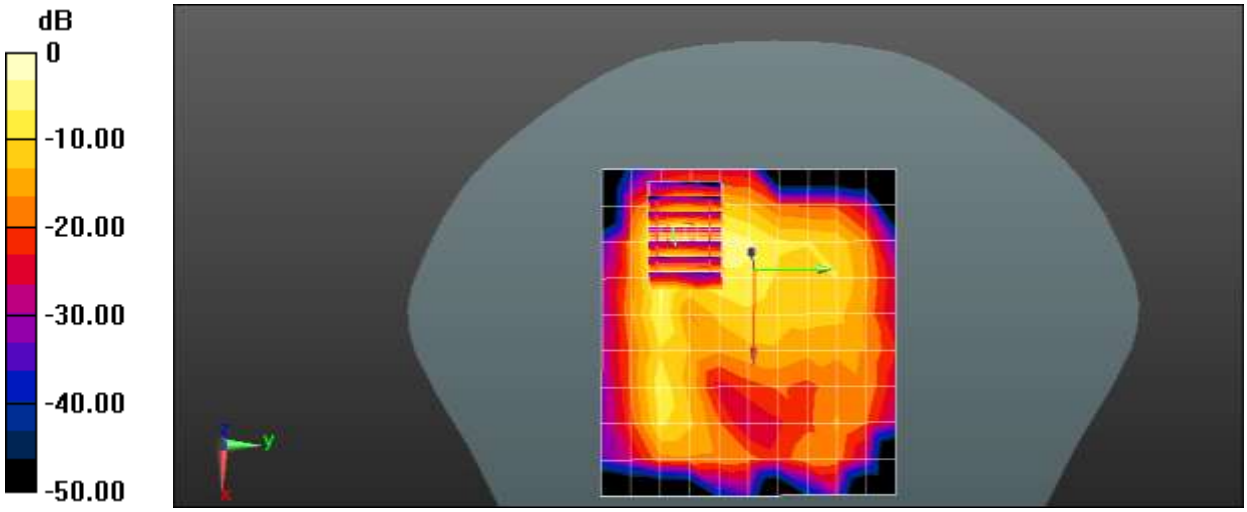
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **23.6 ℃** |
| **Liquid Temperature:** | **23.5 ℃** |
| **Test Date:** | **05/03/2024** |
| **Plot No.:** | **C16** |

Communication System: UID 0, NR n77 [FCC] (0); Frequency: 3930 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3930 MHz; $\sigma$ = 3.222 S/m; $\varepsilon_r$ = 37.957; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3930 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NR Band n77 Body Front DFT-s QPSK 100MHz 270RB 0offset 662000ch/Area Scan (10x11x1):**
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.73 W/kg
**NR Band n77 Body Front DFT-s QPSK 100MHz 270RB 0offset 662000ch/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 4.703 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.83 W/kg
**SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.263 W/kg**
Maximum value of SAR (measured) = 1.85 W/kg




0 dB = 1.85 W/kg = 2.67 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.3 ℃** |
| **Liquid Temperature:** | **22.2 ℃** |
| **Test Date:** | **03/12/2024** |
| **Plot No.:** | **C17** |

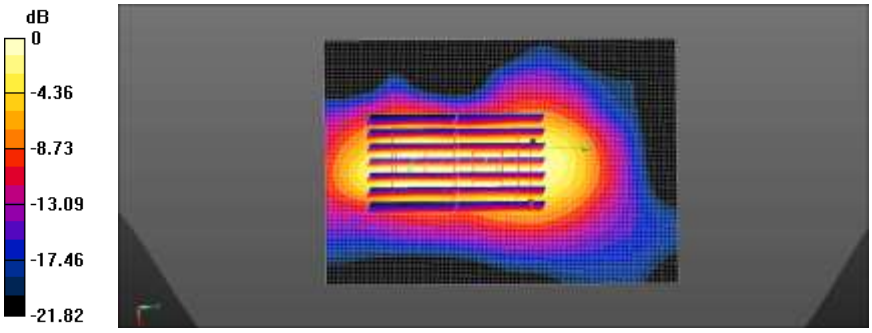
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2412 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2412 MHz; $\sigma$ = 1.807 S/m; $\varepsilon_r$ = 39.159; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2412 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**802.11b Body Left 1Mbps 1ch/Area Scan (71x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.744 W/kg

**802.11b Body Left 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.49 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.958 W/kg
**SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.183 W/kg**
Maximum value of SAR (measured) = 0.764 W/kg
**802.11b Body Left 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.49 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.664 W/kg
**SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.163 W/kg**
Maximum value of SAR (measured) = 0.545 W/kg




0 dB = 0.545 W/kg = -2.64 dBW/kg

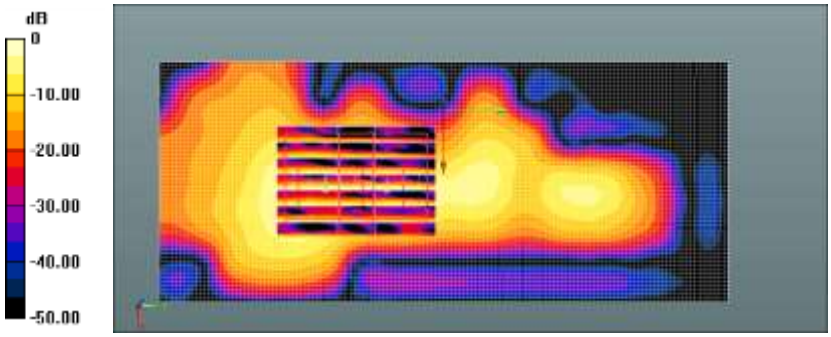
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **20.0 ℃** |
| **Liquid Temperature:** | **19.9 ℃** |
| **Test Date:** | **03/14/2024** |
| **Plot No.:** | **C17** |

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; $\sigma$ = 5.093 S/m; $\varepsilon_r$ = 36.307; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(4.66, 4.66, 4.66) @ 5785 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**802.11a Body Left 6Mbps 157ch/Area Scan (61x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.01 W/kg
**802.11a Body Left 6Mbps 157ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.088 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.25 W/kg
**SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.102 W/kg**
Maximum value of SAR (measured) = 1.05 W/kg
**802.11a Body Left 6Mbps 157ch/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.088 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.10 W/kg
**SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.076 W/kg**
Maximum value of SAR (measured) = 0.921 W/kg



0 dB = 0.921 W/kg = -0.36 dBW/kg

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **22.6 ℃** |
| **Liquid Temperature:** | **22.6 ℃** |
| **Test Date:** | **04/30/2024** |
| **Plot No.:** | **C17** |

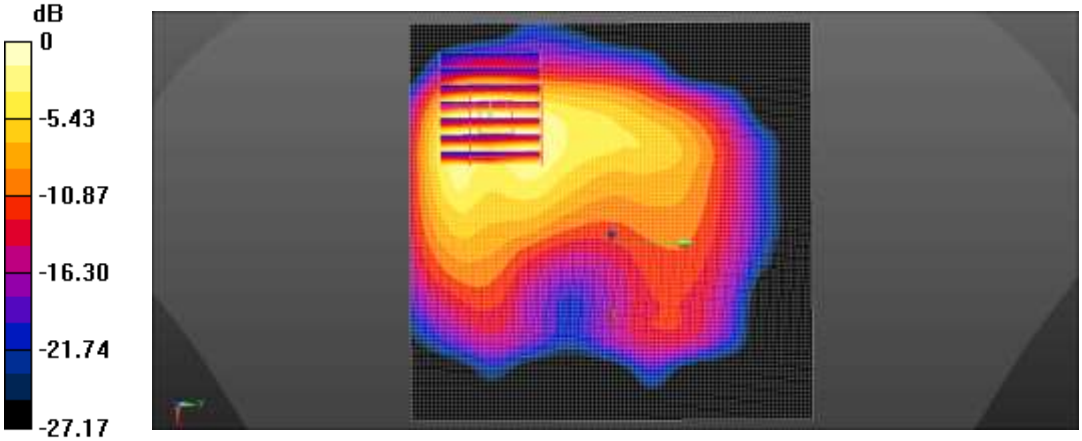
Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2402 MHz; $\sigma$ = 1.708 S/m; $\varepsilon_r$ = 37.945; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2402 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Bluetooth Body Front DH5 0ch/Area Scan (101x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.980 W/kg

**Bluetooth Body Front DH5 0ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.435 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.39 W/kg
**SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.281 W/kg**.
Maximum value of SAR (measured) = 1.10 W/kg




0 dB = 1.10 W/kg = 0.41 dBW/kg

| | |
|---|---|
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/15/2024** |
| **Plot No.:** | **D1** |

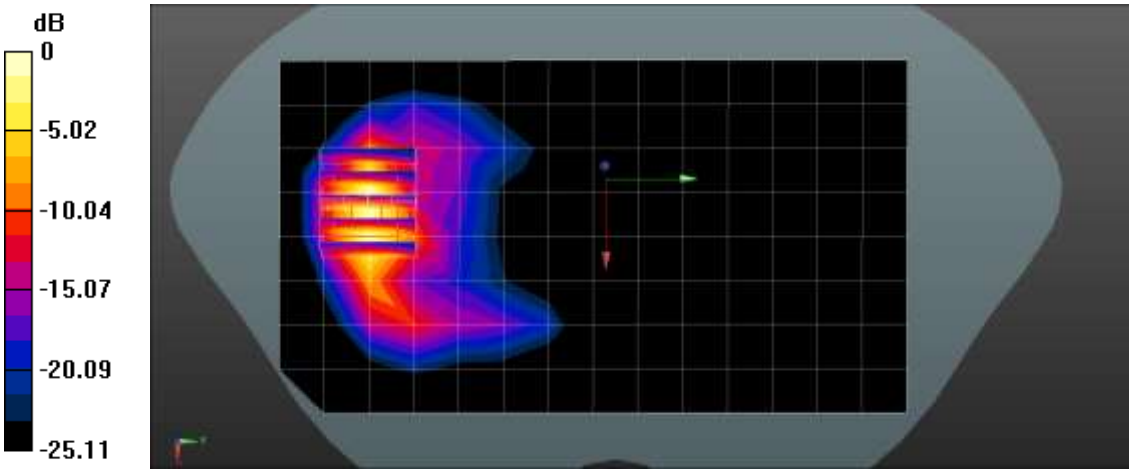
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; $\sigma$ = 1.312 S/m; $\varepsilon_r$ = 41.33; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.29, 8.71, 8.9) @ 1732.4 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 4 Body Rear 1412ch/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.2 W/kg

**UMTS Band 4 Body Rear 1412ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.152 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 13.7 W/kg
**SAR(1 g) = 5.7 W/kg; SAR(10 g) = 2.38 W/kg**
Maximum value of SAR (measured) = 11.5 W/kg




0 dB = 11.5 W/kg = 10.61 dBW/kg

| | |
|---|---|
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.8 ℃** |
| **Liquid Temperature:** | **21.7 ℃** |
| **Test Date:** | **03/14/2024** |
| **Plot No.:** | **D2** |

Communication System: UID 0, WCDMA1900 (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma$ = 1.407 S/m; $\varepsilon_r$ = 38.884; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

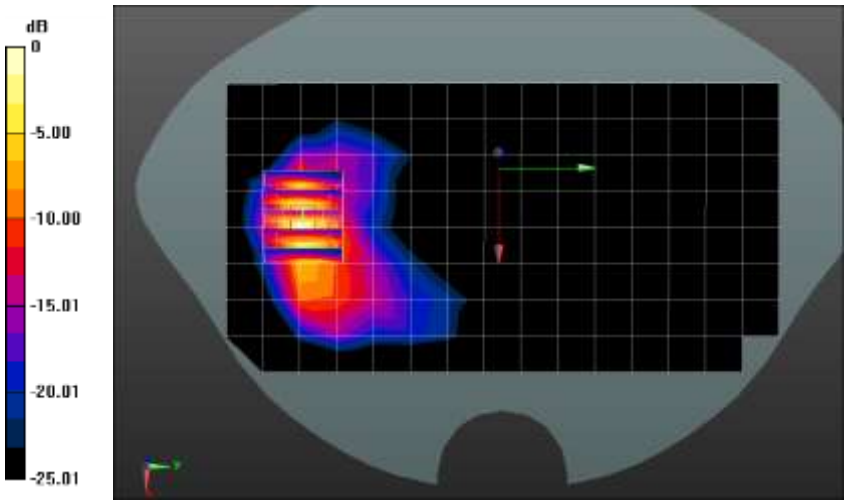
- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1907.6 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Body Rear 9538ch/Area Scan (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.65 W/kg

**UMTS Band 2 Body Rear 9538ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 10.6 W/kg
**SAR(1 g) = 4.65 W/kg; SAR(10 g) = 1.96 W/kg**

Maximum value of SAR (measured) = 9.00 W/kg




0 dB = 9.00 W/kg = 9.54 dBW/kg

**EUT Type:** **Mobile Phone**
**Ambient Temperature:** **22.7 ℃**
**Liquid Temperature:** **22.5 ℃**
**Test Date:** **04/10/2024**
**Plot No.:** **D3**
**Measurement Report for Device, BACK, Band 25, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK), Channel 26590 (1905.0 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, HSL | BACK, 0.00 | Band 25 | LTE-FDD, 10297-AAE | 1905.0, 26590 | 8.81 | 1.37 | 39.0 |

**Hardware Setup**

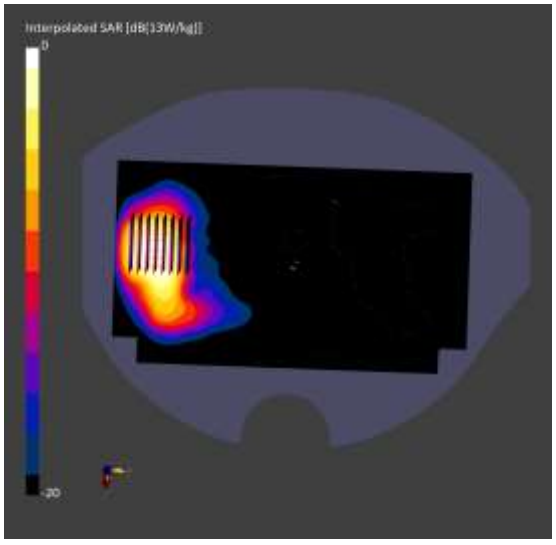
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 120.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 4.8 x 4.8 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 3.14 | 5.01 |
| psSAR10g [W/Kg] | 1.65 | 2.04 |
| Power Drift [dB] | -0.17 | 0.07 |



**EUT Type:** **Mobile Phone**
**Ambient Temperature:** **24.0 ℃**
**Liquid Temperature:** **23.8 ℃**
**Test Date:** **04/23/2024**
**Plot No.:** **D4**
**Measurement Report for Device, EDGE RIGHT, Band 66, LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK), Channel 132072 (1720.0 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, HSL | EDGE RIGHT, 0.00 | Band 66 | LTE-FDD, 10100-CAF | 1720.0, 132072 | 9.17 | 1.31 | 41.5 |

**Hardware Setup**

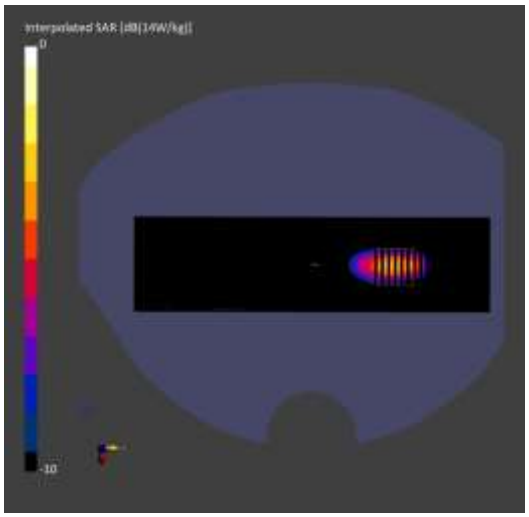
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 56.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 14.0 x 15.0 | 3.8 x 3.8 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 5.38 | 5.25 |
| psSAR10g [W/Kg] | 2.47 | 2.25 |
| Power Drift [dB] | -0.02 | -0.00 |



**EUT Type:** **Mobile Phone**
**Ambient Temperature:** **21.9 ℃**
**Liquid Temperature:** **21.8 ℃**
**Test Date:** **04/30/2024**
**Plot No.:** **D5**
**Measurement Report for Device, EDGE RIGHT, Band n25, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz), Channel 376500 (1882.5 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, HSL | EDGE RIGHT, 0.00 | Band n25 | 5G NR FR1 FDD, 10934-AAC | 1882.5, 376500 | 8.81 | 1.47 | 40.9 |

**Hardware Setup**

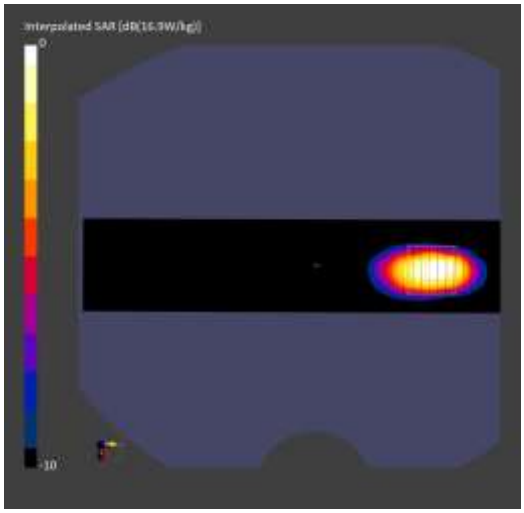
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 42.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 7.0 x 15.0 | 3.8 x 3.8 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 5.74 | 5.94 |
| psSAR10g [W/Kg] | 2.47 | 2.38 |
| Power Drift [dB] | 0.00 | -0.04 |



**EUT Type:** **Mobile Phone**
**Ambient Temperature:** **22.8 ℃**
**Liquid Temperature:** **22.7 ℃**
**Test Date:** **04/27/2024**
**Plot No.:** **D6**

Measurement Report for Device, EDGE RIGHT, Band n66, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) Channel 349000 (1745.0 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, HSL | EDGE RIGHT, 0.00 | Band n66 | 5G NR FR1 FDD, 10934-AAC | 1745.0, 349000 | 9.17 | 1.33 | 41.5 |

**Hardware Setup**

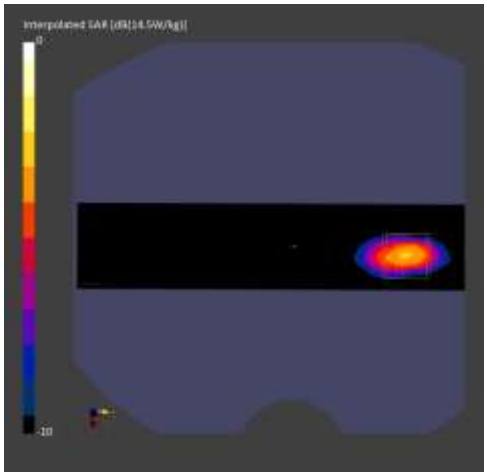
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 42.0 x 210.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 7.0 x 15.0 | 4.2 x 4.2 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 5.39 | 5.57 |
| psSAR10g [W/Kg] | 2.43 | 2.35 |
| Power Drift [dB] | 0.04 | -0.09 |



| | |
|---|---|
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **21.3 ℃** |
| **Liquid Temperature:** | **21.2 ℃** |
| **Test Date:** | **03/11/2024** |
| **Plot No.:** | **D7** |

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2441 MHz; $\sigma$ = 1.752 S/m; $\varepsilon_r$ = 37.784; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

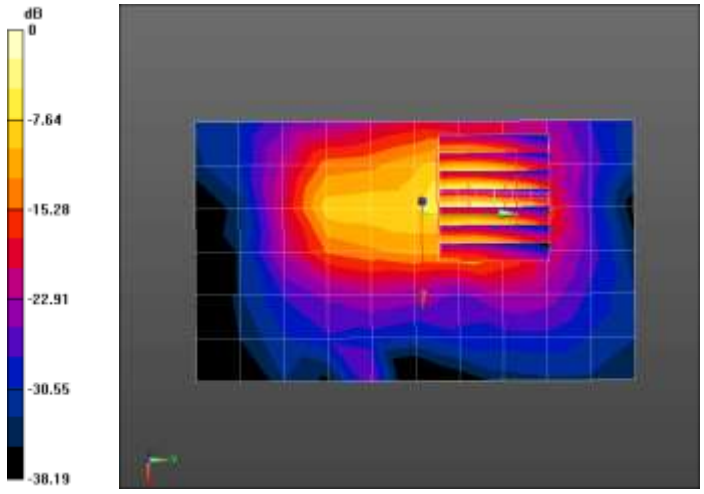
DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2441 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Bluetooth Phablet Top DH5 39ch/Area Scan (7x11x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 3.36 W/kg

**Bluetooth Phablet Top DH5 39ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.03 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 5.21 W/kg
**SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.469 W/kg**
Maximum value of SAR (measured) = 3.27 W/kg




0 dB = 3.27 W/kg = 5.15 dBW/kg

| | |
|---|---|
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **19.6 ℃** |
| **Liquid Temperature:** | **19.5 ℃** |
| **Test Date:** | **03/12/7024** |
| **Plot No.:** | **D8** |

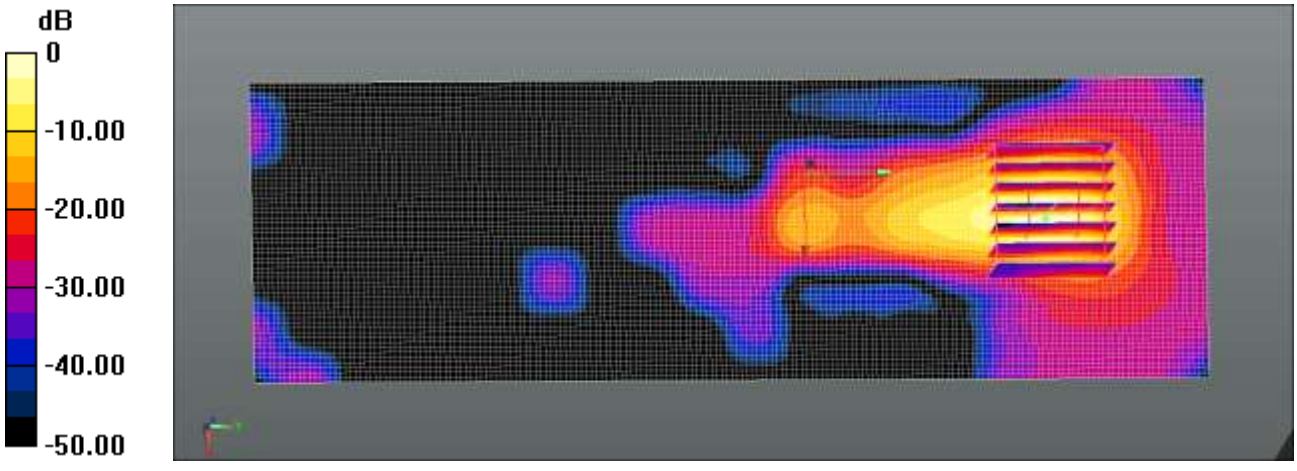
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5300 MHz; $\sigma$ = 4.687 S/m; $\varepsilon_r$ = 36.774; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(5.2, 5.2, 5.2) @ 5300 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

**802.11a Body Left 6Mbps 60ch/Area Scan (61x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 12.9 W/kg

**802.11a Body Left 6Mbps 60ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.679 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 29.7 W/kg
**SAR(1 g) = 4.65 W/kg; SAR(10 g) = 1.04 W/kg**
Maximum value of SAR (measured) = 14.7 W/kg




0 dB = 14.7 W/kg = 11.67 dBW/kg

| | |
|---|---|
| **EUT Type:** | **Mobile Phone** |
| **Ambient Temperature:** | **18.4 ℃** |
| **Liquid Temperature:** | **18.4 ℃** |
| **Test Date:** | **04/04/2024** |
| **Plot No.:** | **D9** |

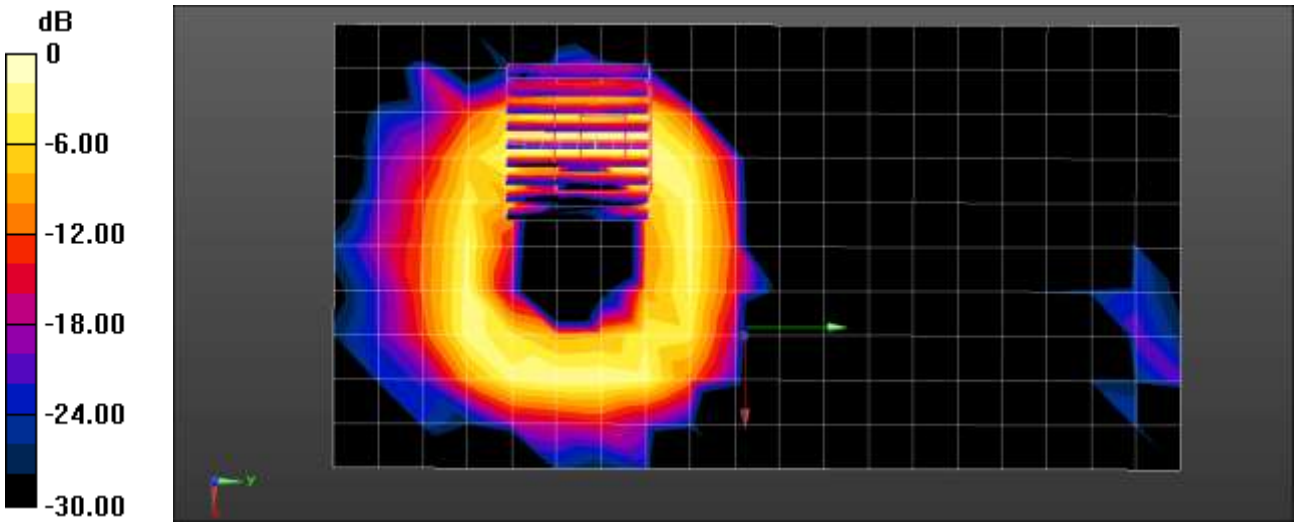
Communication System: UID 0, NFC (0); Frequency: 13.56 MHz;Duty Cycle: 1:1
Medium parameters used: f = 14 MHz; $\sigma$ = 0.74 S/m; $\varepsilon_r$ = 54.502; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.8, 5.8, 5.8) @ 13.56 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**NFC Phablet Rear Type B 106kbps/Area Scan (11x20x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.0215 W/kg

**NFC Phablet Rear Type B 106kbps/Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.7670 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.154 W/kg
**SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.00727 W/kg**
Maximum value of SAR (measured) = 0.0343 W/kg




0 dB = 0.0343 W/kg = -14.65 dBW/kg

# Appendix C. – Dipole Verification Plots

■ **Verification Data (750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.5 ℃** |
| **Test Date:** | **04/24/2024** |
| **Band:** | **LTE FDD Band 12 Close** |

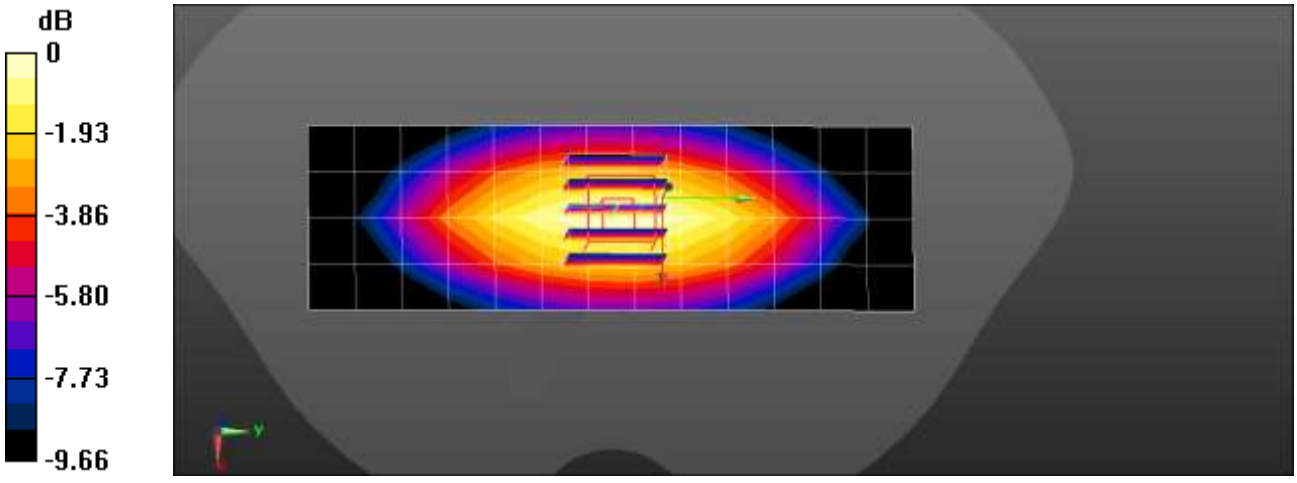
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; $\sigma$ = 0.902 S/m; $\varepsilon_r$ = 42.63; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 750 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/750MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.564 W/kg

**Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.12 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.627 W/kg
**SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.303 W/kg**
Ratio of SAR at M2 to SAR at M1 = 70.4%
Maximum value of SAR (measured) = 0.573 W/kg




0 dB = 0.573 W/kg = -2.42 dBW/kg

■ **Verification Data (750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.6 ℃** |
| **Test Date:** | **04/23/2024** |
| **Band:** | **LTE FDD Band 12 Open** |

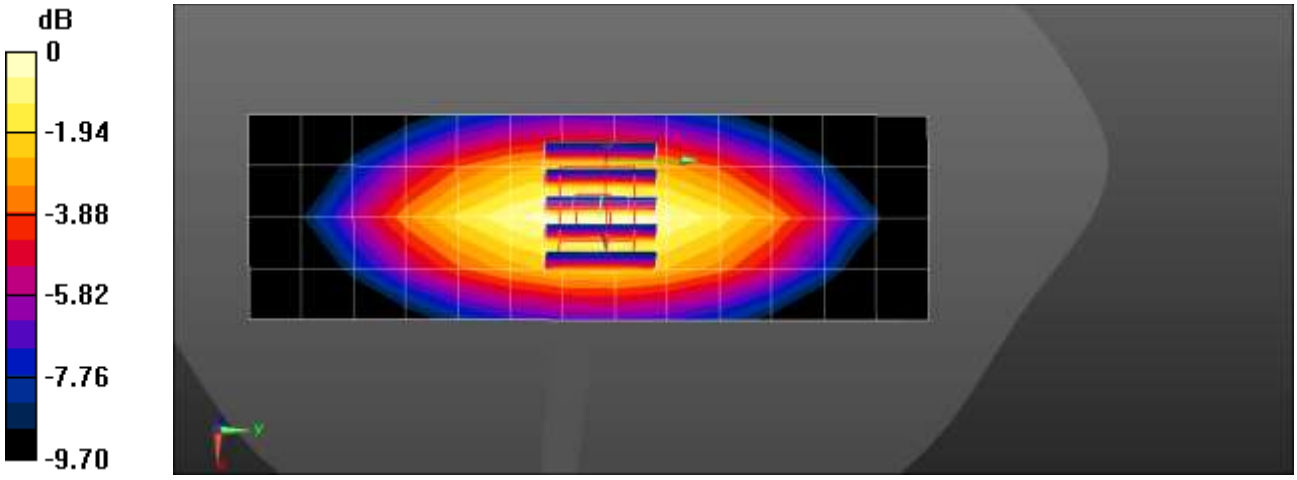
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; $\sigma$ = 0.911 S/m; $\varepsilon_r$ = 42.934; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 750 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/750MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.572 W/kg

**Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.16 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.636 W/kg
**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.306 W/kg**
Maximum value of SAR (measured) = 0.580 W/kg




0 dB = 0.580 W/kg = -2.37 dBW/kg

■ **Verification Data (750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.4 ℃** |
| **Test Date:** | **04/26/2024** |
| **Band:** | **LTE FDD Band 13 Close** |

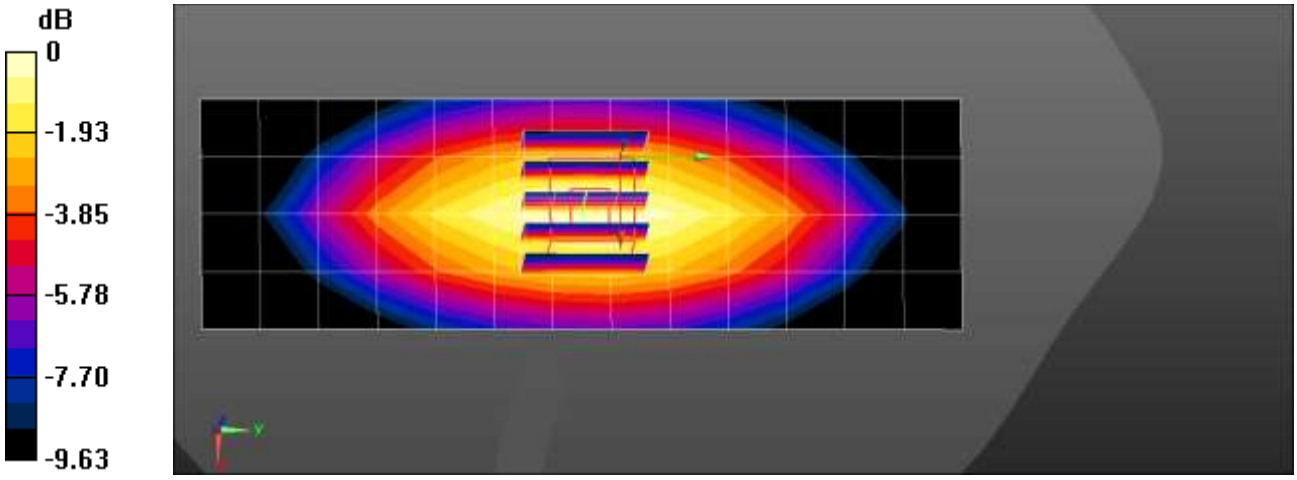
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; $\sigma$ = 0.902 S/m; $\varepsilon_r$ = 42.635; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 750 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/750MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.560 W/kg

**Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.07 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.624 W/kg
**SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.302 W/kg**
Maximum value of SAR (measured) = 0.570 W/kg




0 dB = 0.570 W/kg = -2.44 dBW/kg

■ **Verification Data (750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.1 ℃** |
| **Test Date:** | **04/25/2024** |
| **Band:** | **LTE FDD Band 13 Open** |

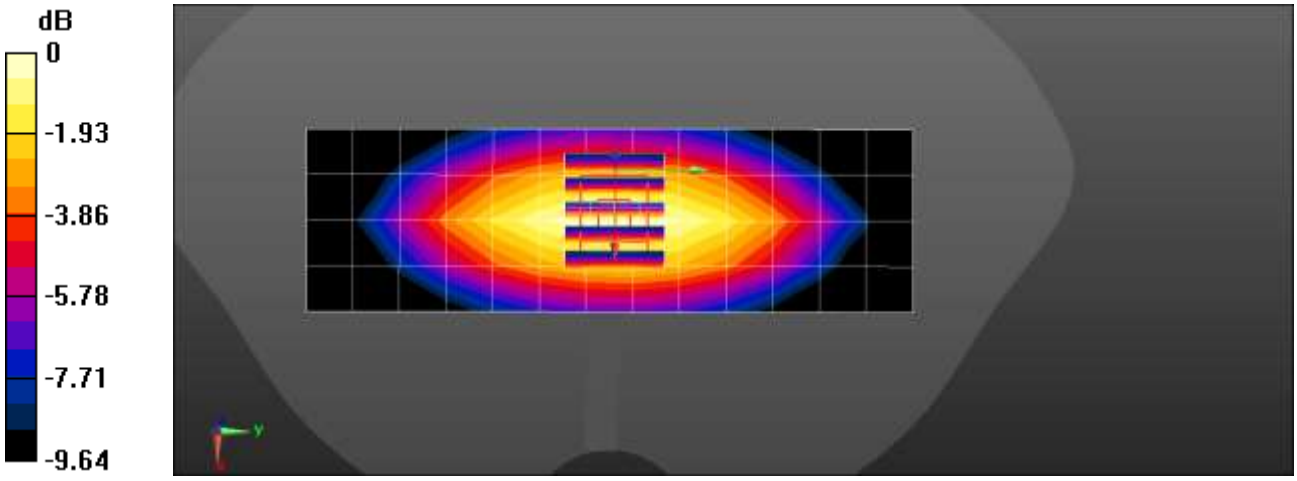
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 42.83; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.65, 10.07, 8.84) @ 750 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/750MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.553 W/kg

**Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.20 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.621 W/kg
**SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.298 W/kg**
Maximum value of SAR (measured) = 0.568 W/kg




0 dB = 0.568 W/kg = -2.46 dBW/kg

■ **Verification Data (835 ㎒ Head)**

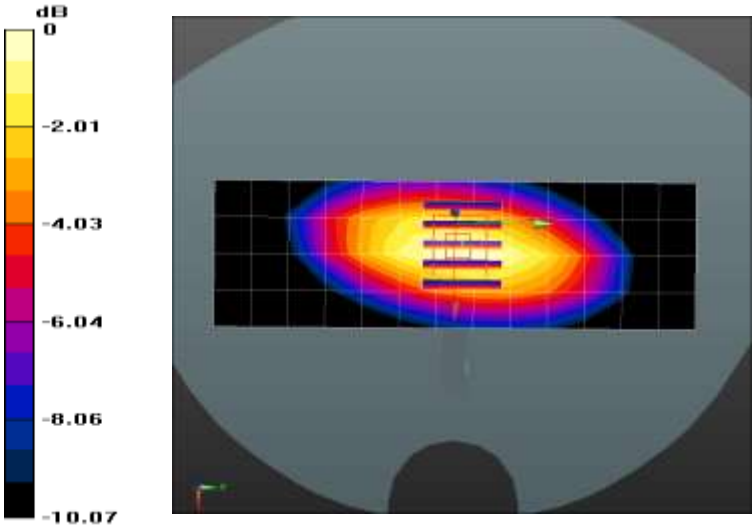
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.4 ℃** |
| **Test Date:** | **03/19/2024** |
| **Band:** | **GSM 850** |

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; $\sigma$ = 0.919 S/m; $\varepsilon_r$ = 41.338; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 835 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/835MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.622 W/kg
**Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.46 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.676 W/kg
**SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.337 W/kg**
Maximum value of SAR (measured) = 0.633 W/kg




0 dB = 0.633 W/kg = -1.99 dBW/kg

■ **Verification Data (835 ㎒ Head)**

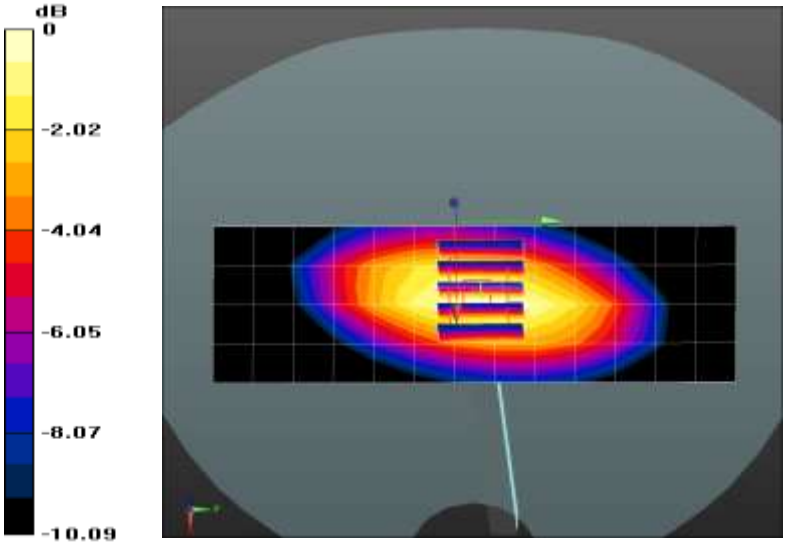
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **20.0 ℃** |
| **Test Date:** | **03/18/2024** |
| **Band:** | **UMTS Band 5** |

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; $\sigma$ = 0.903 S/m; $\varepsilon_r$ = 41.32; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.17, 9.37, 9.66) @ 835 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/835MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.618 W/kg
**Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.82 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.668 W/kg
**SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.333 W/kg**
Maximum value of SAR (measured) = 0.626 W/kg




0 dB = 0.626 W/kg = -2.03 dBW/kg

■ **Verification Data (835 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.3 ℃** |
| **Test Date:** | **04/02/2024** |
| **Band:** | **LTE FDD Band 26 Close** |

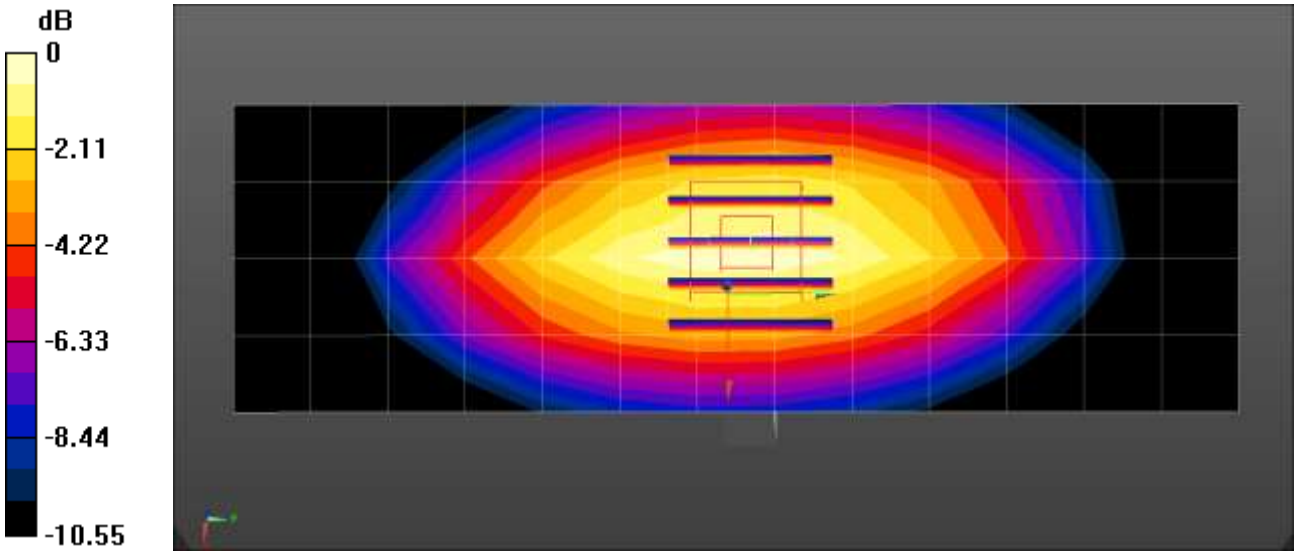
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; $\sigma$ = 0.931 S/m; $\varepsilon_r$ = 40.704; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 835 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/835MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.633 W/kg

**Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.34 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.712 W/kg
**SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.335 W/kg**
Maximum value of SAR (measured) = 0.654 W/kg




0 dB = 0.654 W/kg = -1.84 dBW/kg

■ **Verification Data (835 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.1 ℃** |
| **Test Date:** | **04/01/2024** |
| **Band:** | **LTE FDD Band 26 Open** |

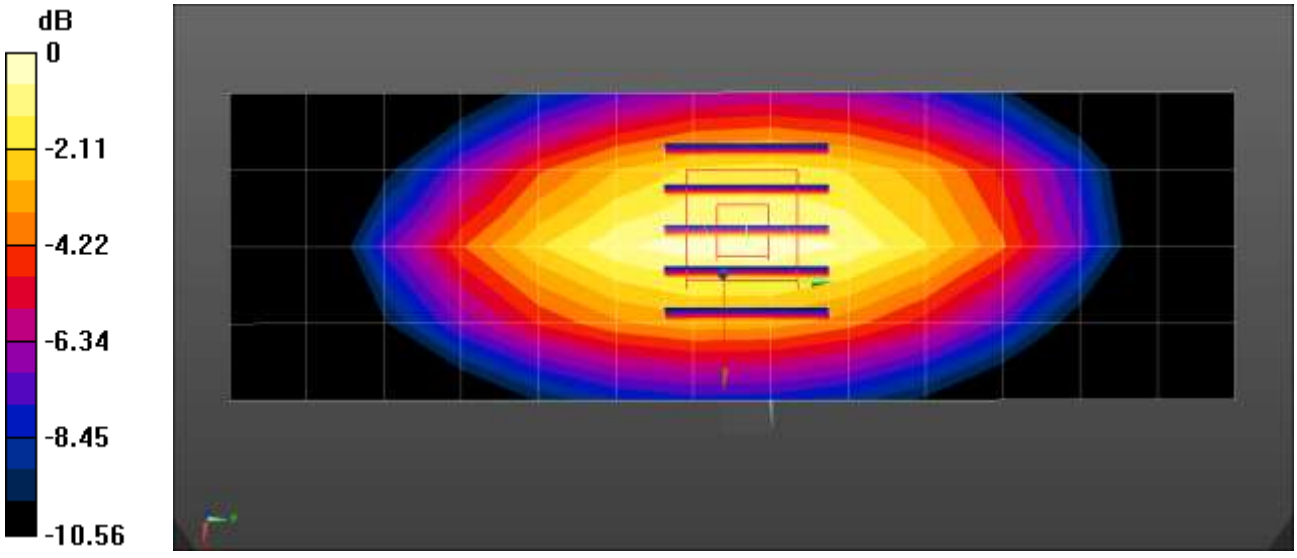
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; $\sigma$ = 0.935 S/m; $\varepsilon_r$ = 40.691; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 835 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/835MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.634 W/kg

**Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.11 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.712 W/kg
**SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.336 W/kg**
Maximum value of SAR (measured) = 0.654 W/kg




0 dB = 0.654 W/kg = -1.84 dBW/kg

■ **Verification Data (1 800 ㎒ Head)**

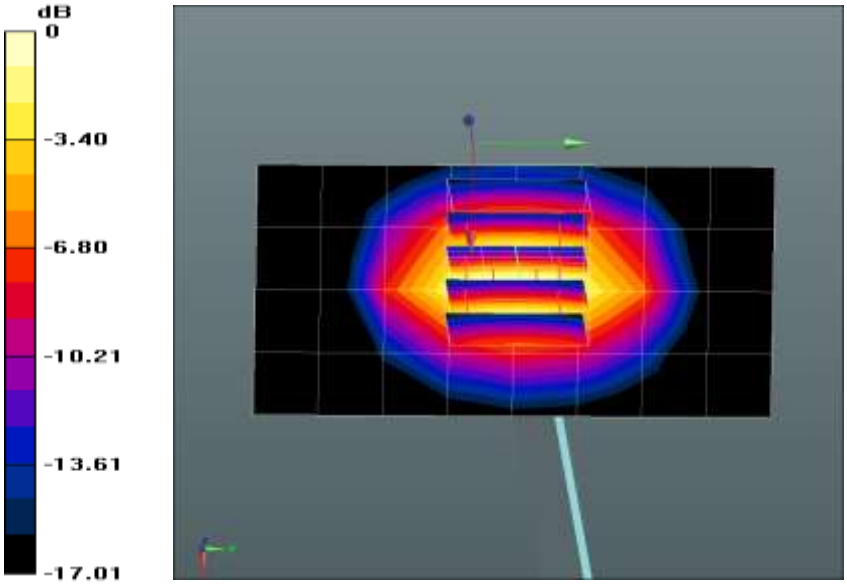
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.7 ℃** |
| **Test Date:** | **03/15/2024** |
| **Band:** | **UMTS Band 4** |

Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; $\sigma$ = 1.382 S/m; $\varepsilon_r$ = 41.032; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.29, 8.71, 8.9) @ 1800 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/1800MHz Head Verification/Area Scan (5x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.50 W/kg
**Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 44.94 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 3.13 W/kg
**SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.938 W/kg**
Maximum value of SAR (measured) = 2.69 W/kg




0 dB = 2.69 W/kg = 4.30 dBW/kg

## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.8 ℃
**Test Date:** 04/12/2024
**Band:** LTE FDD Band 66 Ant.A Close

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0-- | 1800.0, 0 | 9.17 | 1.39 | 41.1 |

**Hardware Setup**

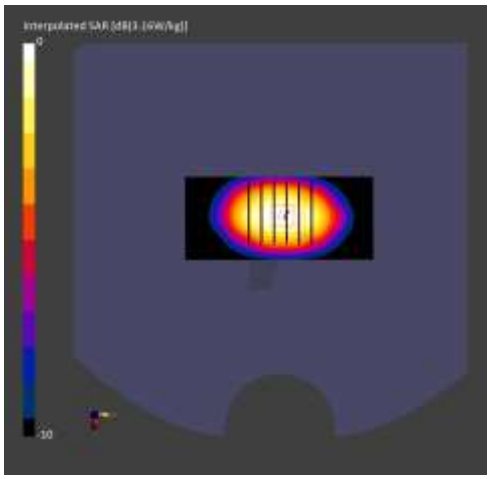
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | HBBL-600-10000 Charge:xxxx, 2024-Apr-14 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.76 | 1.74 |
| psSAR10g [W/Kg] | 0.932 | 0.918 |
| Power Drift [dB] | 0.00 | 0.00 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 24.0 ℃
**Test Date:** 04/11/2024
**Band:** LTE FDD Band 66 Ant.A Open

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0- - | 1800.0, 0 | 9.17 | 1.39 | 41.1 |

**Hardware Setup**

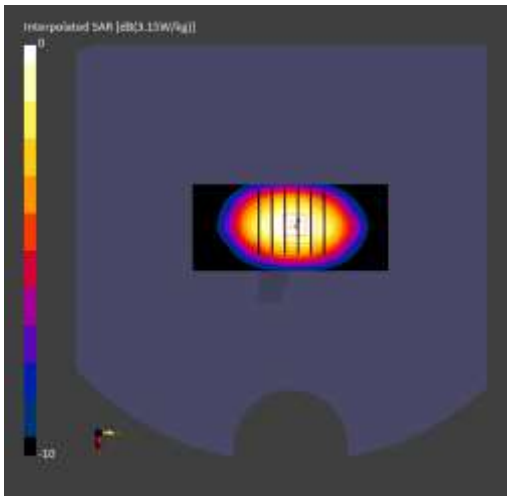
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | HBBL-600-10000 Charge:xxxx, 2024-Apr-14 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.76 | 1.74 |
| psSAR10g [W/Kg] | 0.935 | 0.919 |
| Power Drift [dB] | -0.00 | 0.00 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.8 ℃
**Test Date:** 04/23/2024
**Band:** LTE FDD Band 66 Ant. I Close

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0- | 1800.0, 0 | 9.17 | 1.39 | 41.1 |

**Hardware Setup**

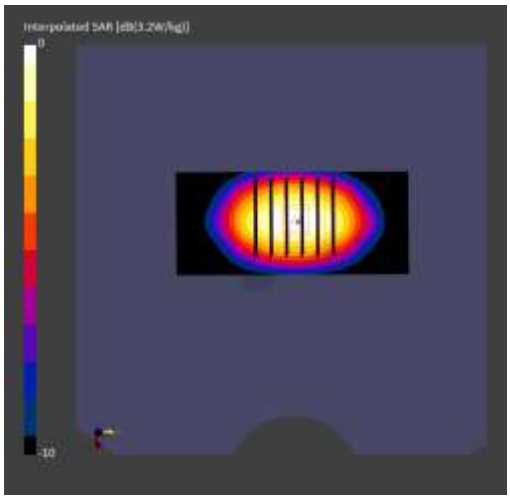
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.78 | 1.74 |
| psSAR10g [W/Kg] | 0.946 | 0.921 |
| Power Drift [dB] | 0.01 | 0.01 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 24.0 ℃
**Test Date:** 04/22/2024
**Band:** LTE FDD Band 66 Ant. I Open

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0- - | 1800.0, 0 | 9.17 | 1.39 | 41.1 |

**Hardware Setup**

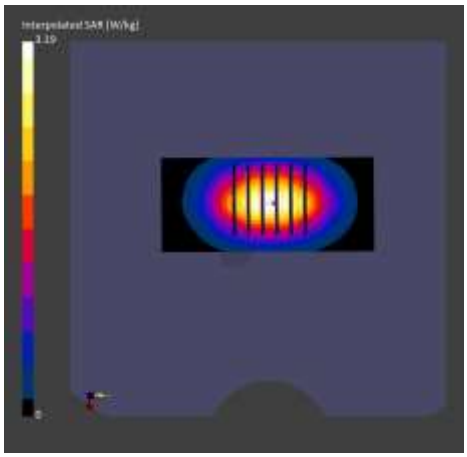
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.78 | 1.74 |
| psSAR10g [W/Kg] | 0.945 | 0.918 |
| Power Drift [dB] | 0.02 | 0.01 |



■ **Verification Data (1 900 ㎒ Head)**

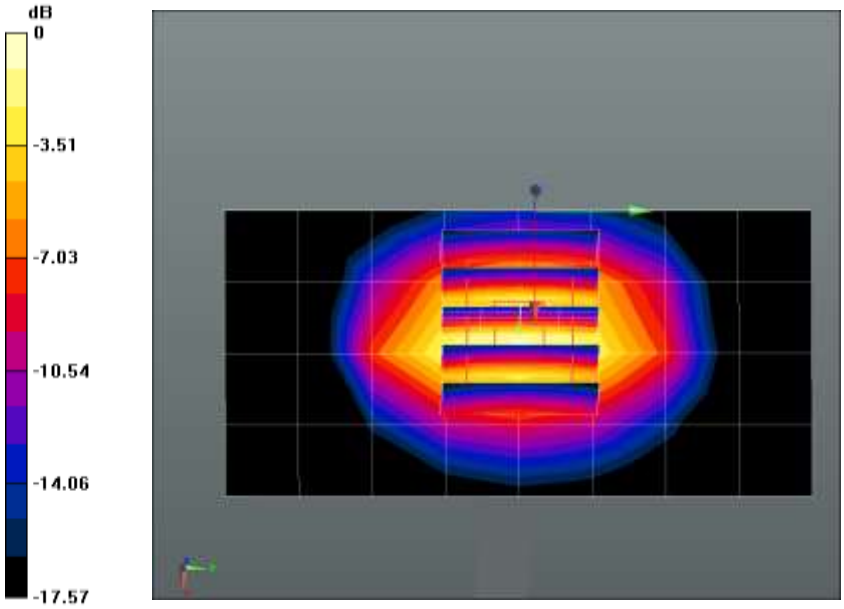
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.0 ℃** |
| **Test Date:** | **03/21/2024** |
| **Band:** | **GSM 1900 Body** |

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.401 S/m; $\varepsilon_r$ = 39.367; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1900 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/1900MHz Head Verification/Area Scan (5x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.70 W/kg
**Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.44 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 3.49 W/kg
**SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.03 W/kg**
Maximum value of SAR (measured) = 3.00 W/kg




0 dB = 3.00 W/kg = 4.77 dBW/kg

■ **Verification Data (1 900 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.3 ℃** |
| **Test Date:** | **04/16/2024** |
| **Band:** | **GSM 1900 Head** |

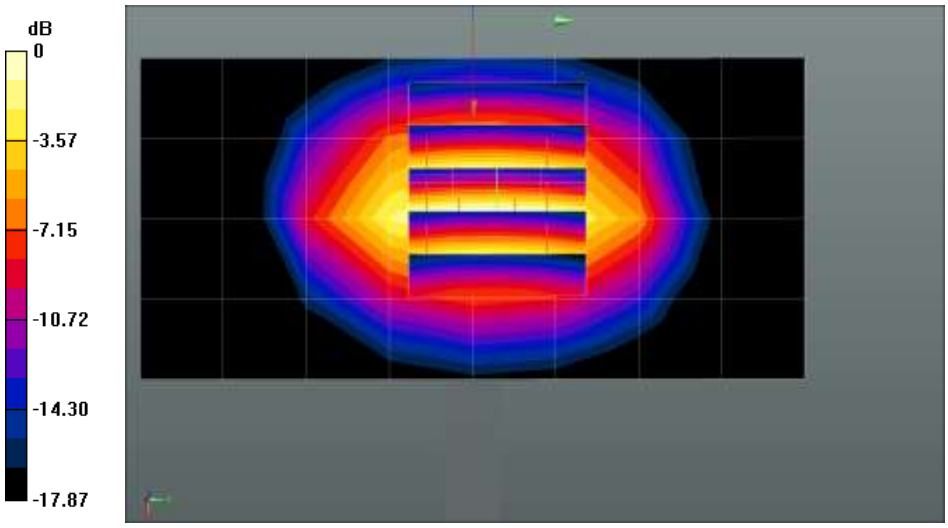
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.445 S/m; $\varepsilon_r$ = 39.926; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1900 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/1900MHz Head Verification/Area Scan (5x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.95 W/kg

**Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.90 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.61 W/kg
**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.07 W/kg**
Maximum value of SAR (measured) = 3.08 W/kg




0 dB = 3.08 W/kg = 4.89 dBW/kg

■ **Verification Data (1 900 ㎒ Head)**

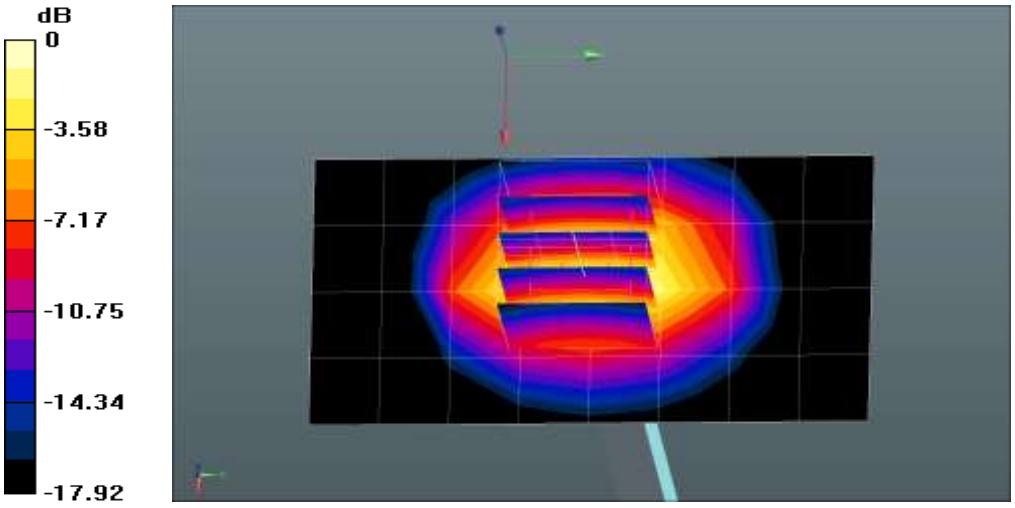
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.7 ℃** |
| **Test Date:** | **03/14/2024** |
| **Band:** | **UMTS Band 2** |

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.404 S/m; $\varepsilon_r$ = 38.951; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.94, 8.33, 8.49) @ 1900 MHz; Calibrated: 2023-11-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2023-04-25
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/1900MHz Head Verification/Area Scan (5x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.70 W/kg
**Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.52 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 3.47 W/kg
**SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.03 W/kg**
Maximum value of SAR (measured) = 2.99 W/kg




0 dB = 2.99 W/kg = 4.76 dBW/kg

■ **Verification Data (1 900 ㎒ Head)**

**Test Laboratory:** **HCT CO., LTD**
**Input Power** **0.05 W**
**Liquid Temp:** **23.2 ℃**
**Test Date:** **04/09/2024**
**Band:** **LTE FDD Band 25 Ant. A Close**

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0- - | 1900.0, 0 | 8.81 | 1.42 | 39.0 |

**Hardware Setup**

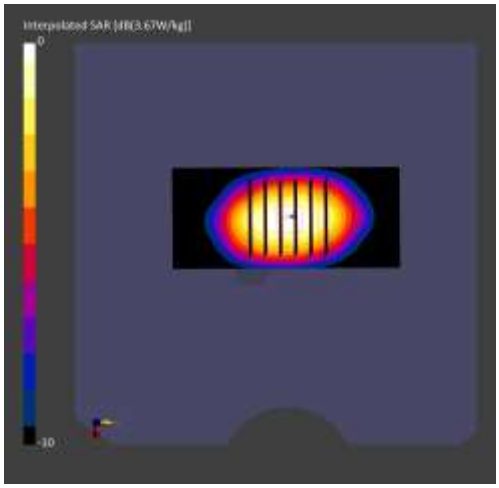
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | HBBL-600-10000 Charge:xxxx, 2024-Apr-14 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.01 | 1.98 |
| psSAR10g [W/Kg] | 1.04 | 1.02 |
| Power Drift [dB] | 0.01 | 0.03 |



■ **Verification Data (1 900 ㎒ Head)**

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.2 ℃
**Test Date:** 04/08/2024
**Band:** LTE FDD Band 25 Ant. A Open

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0-- | 1900.0, 0 | 8.81 | 1.42 | 39.0 |

**Hardware Setup**

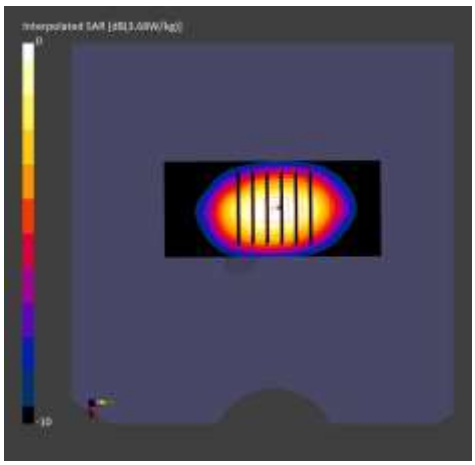
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.02 | 1.99 |
| psSAR10g [W/Kg] | 1.05 | 1.02 |
| Power Drift [dB] | 0.01 | 0.02 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.8 ℃
**Test Date:** 04/17/2024
**Band:** LTE FDD Band 25 Ant. I Close

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0- - | 1900.0, 0 | 8.81 | 1.41 | 39.0 |

**Hardware Setup**

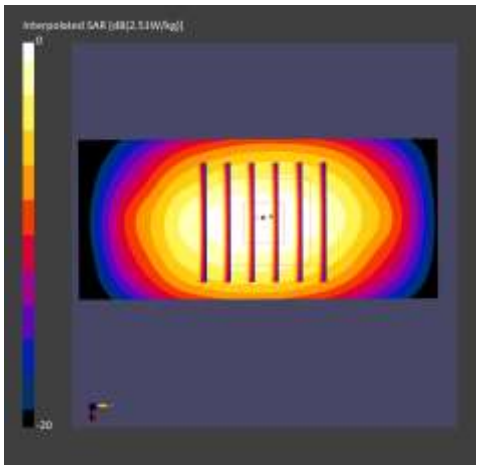
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.00 | 1.97 |
| psSAR10g [W/Kg] | 1.04 | 1.01 |
| Power Drift [dB] | 0.00 | 0.01 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 22.5 ℃
**Test Date:** 04/16/2024
**Band:** LTE FDD Band 25 Ant. I Open

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0-- | 1900.0, 0 | 8.81 | 1.42 | 39.0 |

**Hardware Setup**

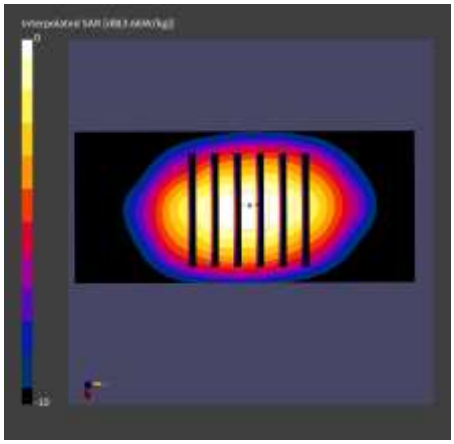
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.02 | 1.98 |
| psSAR10g [W/Kg] | 1.05 | 1.02 |
| Power Drift [dB] | 0.01 | 0.01 |



■ **Verification Data (2 450 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.2 ℃** |
| **Test Date:** | **03/12/2024** |
| **Band:** | **2.4 ㎓ WLAN Ant.1** |

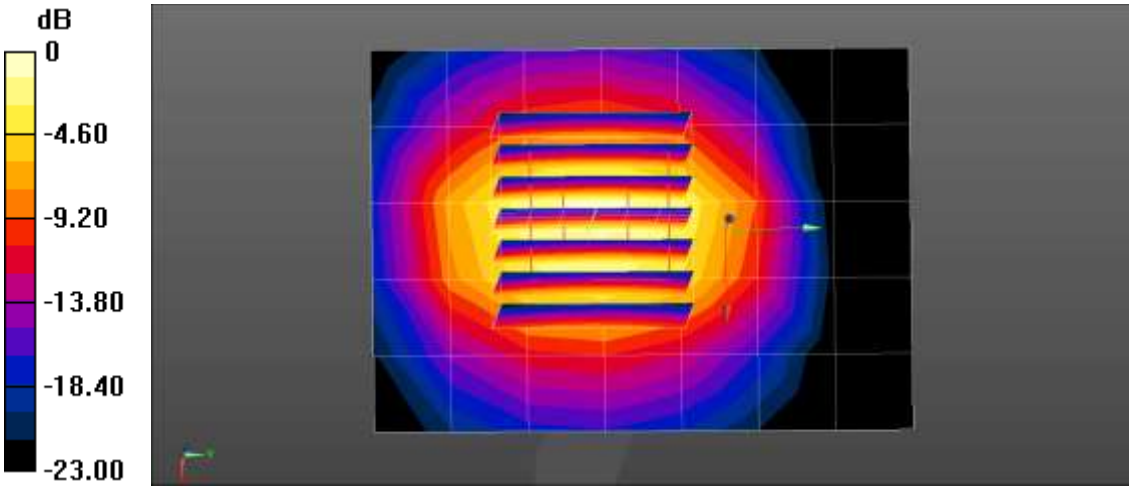
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.838 S/m; $\varepsilon_r$ = 39.205; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2450 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2450MHz Head Verification/Area Scan (6x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.54 W/kg

**Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.45 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 5.14 W/kg
**SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.15 W/kg**
Maximum value of SAR (measured) = 4.18 W/kg




0 dB = 4.18 W/kg = 6.21 dBW/kg

■ **Verification Data (2 450 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.0 ℃** |
| **Test Date:** | **03/13/2024** |
| **Band:** | **2.4 ㎓ WLAN Ant.2** |

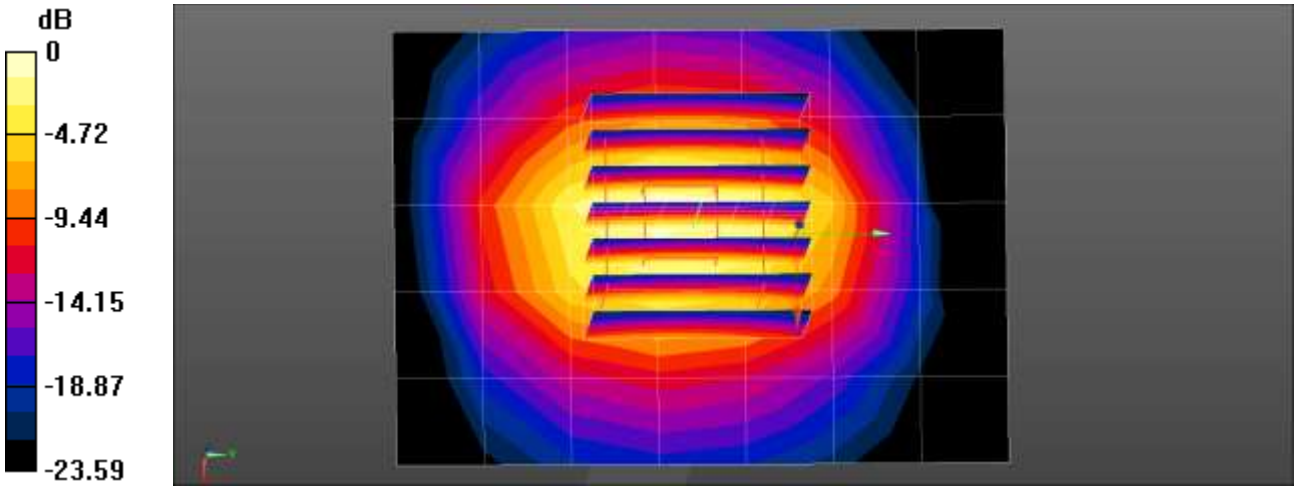
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.763 S/m; $\varepsilon_r$ = 37.748; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2450 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2450MHz Head Verification/Area Scan (6x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.67 W/kg

**Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.72 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 5.24 W/kg
**SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.14 W/kg**
Maximum value of SAR (measured) = 4.25 W/kg




0 dB = 4.25 W/kg = 6.28 dBW/kg

■ **Verification Data (2 450 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.6 ℃** |
| **Test Date:** | **04/30/2024** |
| **Band:** | **Bluetooth Ant.1** |

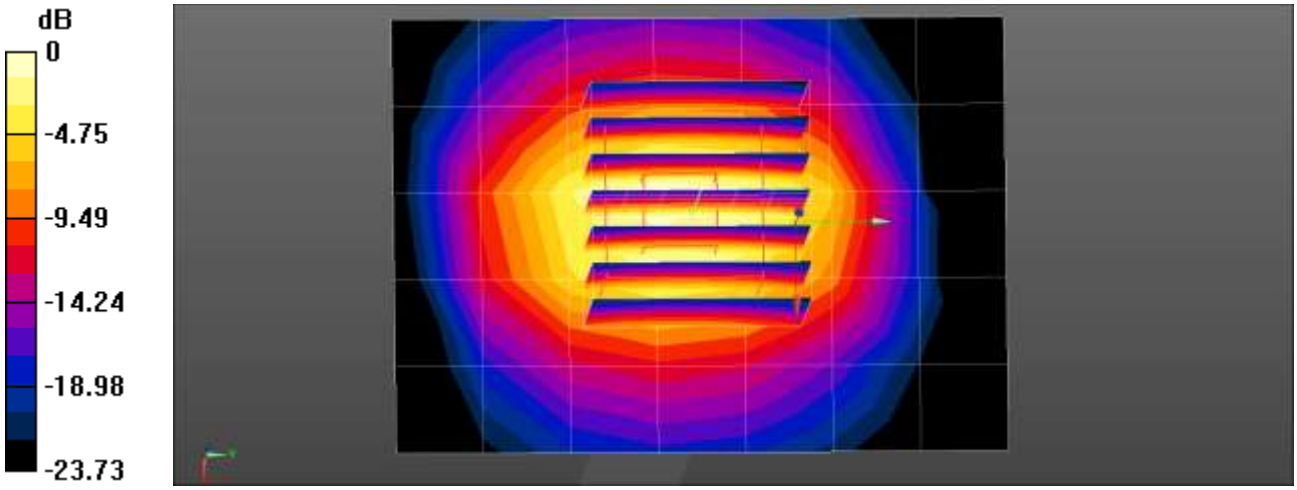
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.763 S/m; $\varepsilon_r$ = 37.748; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2450 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2450MHz Head Verification/Area Scan (6x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.61 W/kg

**Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.89 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 5.19 W/kg
**SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.14 W/kg**
Maximum value of SAR (measured) = 4.19 W/kg




0 dB = 4.19 W/kg = 6.22 dBW/kg

■ **Verification Data (2 450 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.2 ℃** |
| **Test Date:** | **03/11/2024** |
| **Band:** | **Bluetooth Ant.2** |

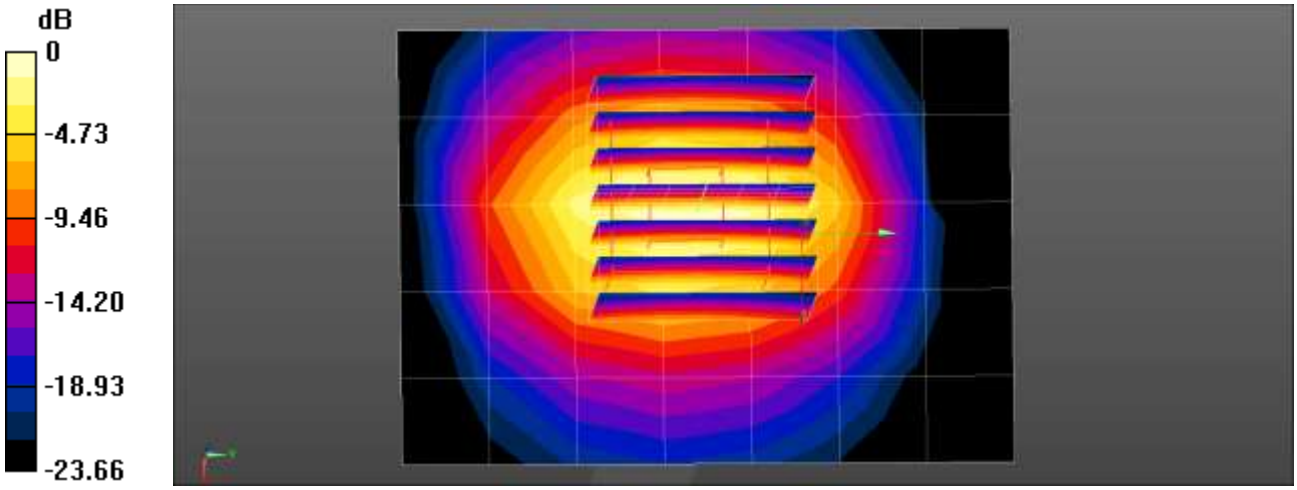
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.763 S/m; $\varepsilon_r$ = 37.749; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2450 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2450MHz Head Verification/Area Scan (6x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.06 W/kg

**Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.93 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 5.19 W/kg
**SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.14 W/kg**
Maximum value of SAR (measured) = 4.21 W/kg




0 dB = 4.21 W/kg = 6.24 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.6 ℃** |
| **Test Date:** | **03/23/2024** |
| **Band:** | **LTE TDD Band 41 Ant B Open** |

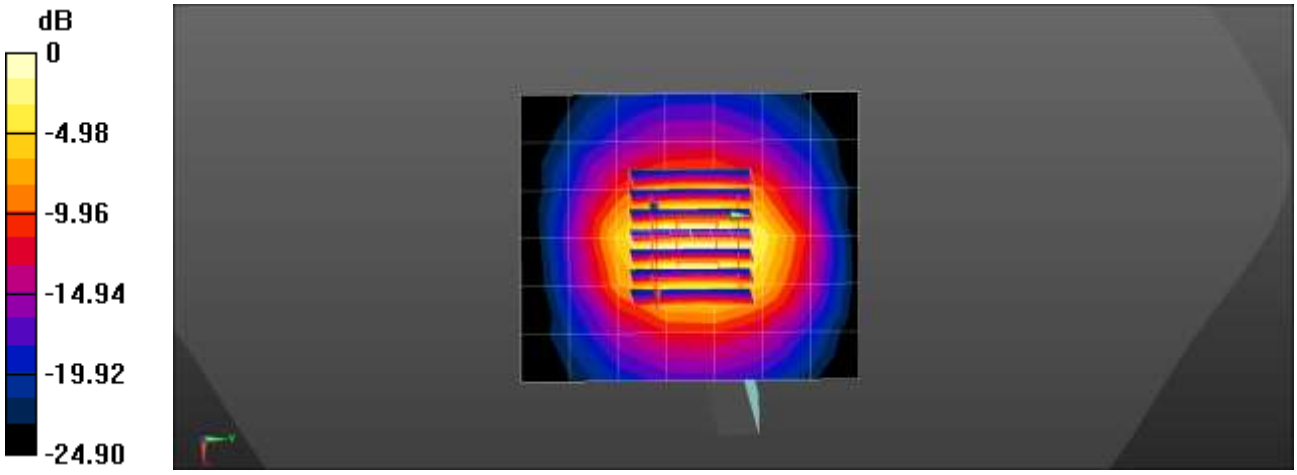
**DUT: D2600V2 - SN1015; Type: D2600V2; Serial: SN1015**
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 1.942 S/m; $\varepsilon_r$ = 38.511; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2600 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2600MHz Head Verification/Area Scan (7x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.91 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.28 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 5.54 W/kg
**SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.12 W/kg**
Maximum value of SAR (measured) = 4.40 W/kg




0 dB = 4.40 W/kg = 6.43 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.0 ℃** |
| **Test Date:** | **03/24/2024** |
| **Band:** | **LTE TDD Band 41 Ant. B Close** |

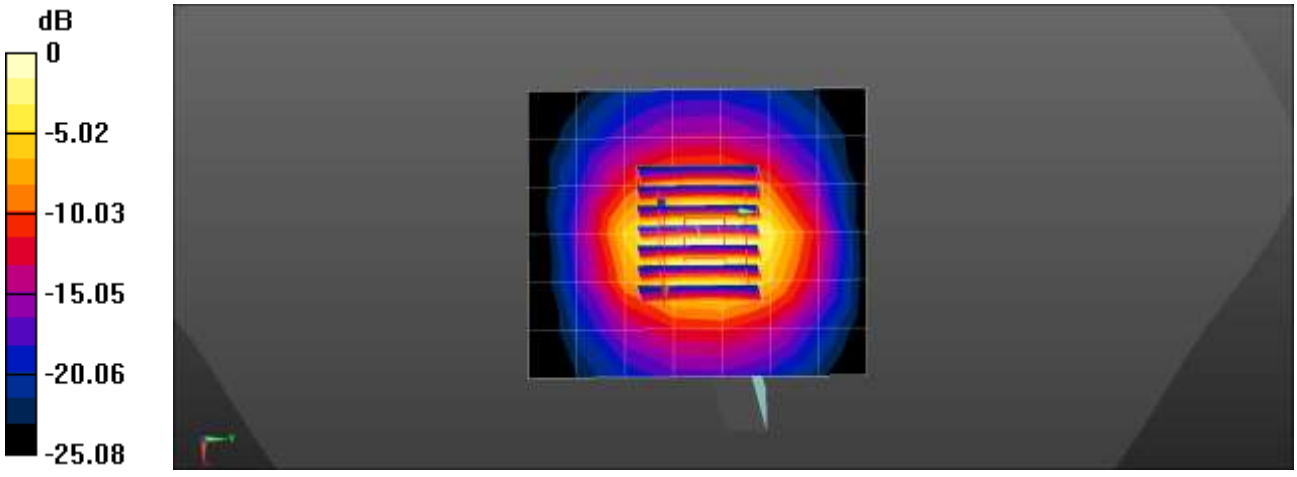
**DUT: D2600V2 - SN1015; Type: D2600V2; Serial: SN1015**
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.008 S/m; $\varepsilon_r$ = 39.161; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2600 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2600MHz Head Verification/Area Scan (7x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.07 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.38 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 5.78 W/kg
**SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.16 W/kg**
Maximum value of SAR (measured) = 4.60 W/kg




0 dB = 4.60 W/kg = 6.63 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.1 ℃** |
| **Test Date:** | **03/19/2024** |
| **Band:** | **LTE TDD Band 41 Ant. I Open** |

**DUT: D2600V2 - SN1015; Type: D2600V2; Serial: SN1015**

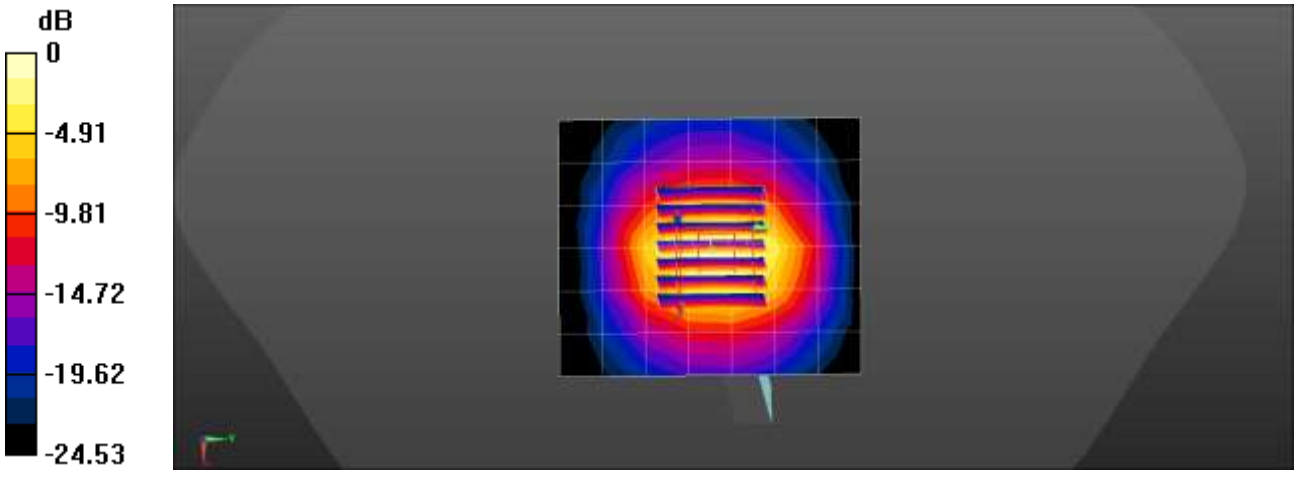
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 1.958 S/m; $\varepsilon_r$ = 38.265; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2600 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2600MHz Head Verification/Area Scan (7x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.98 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.63 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 5.63 W/kg
**SAR(1 g) = 2.57 W/kg; SAR(10 g) = 1.13 W/kg**
Maximum value of SAR (measured) = 4.48 W/kg




0 dB = 4.48 W/kg = 6.51 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.5 ℃** |
| **Test Date:** | **03/22/2024** |
| **Band:** | **LTE TDD Band 41 Ant I Close** |

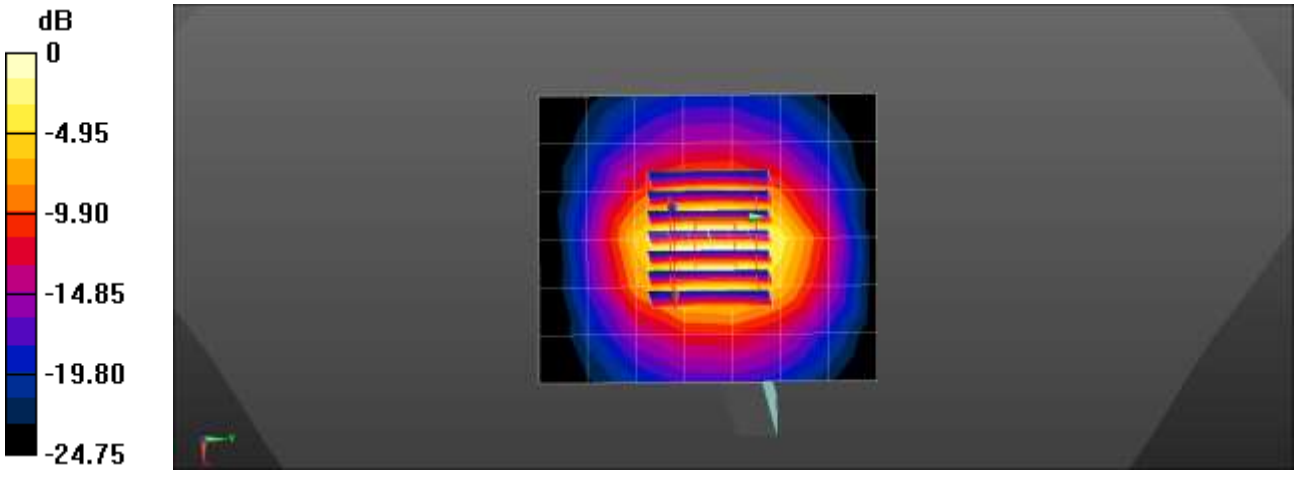
**DUT: D2600V2 - SN1015; Type: D2600V2; Serial: SN1015**
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 1.971 S/m; $\varepsilon_r$ = 38.622; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.34, 7.07, 7.07) @ 2600 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/2600MHz Head Verification/Area Scan (7x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.97 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.40 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 5.67 W/kg
**SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.14 W/kg**
Maximum value of SAR (measured) = 4.51 W/kg




0 dB = 4.51 W/kg = 6.54 dBW/kg

■ **Verification Data (5 250 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/18/2024** |
| **Band:** | **5.25 ㎓ WLAN Head Ant.1** |

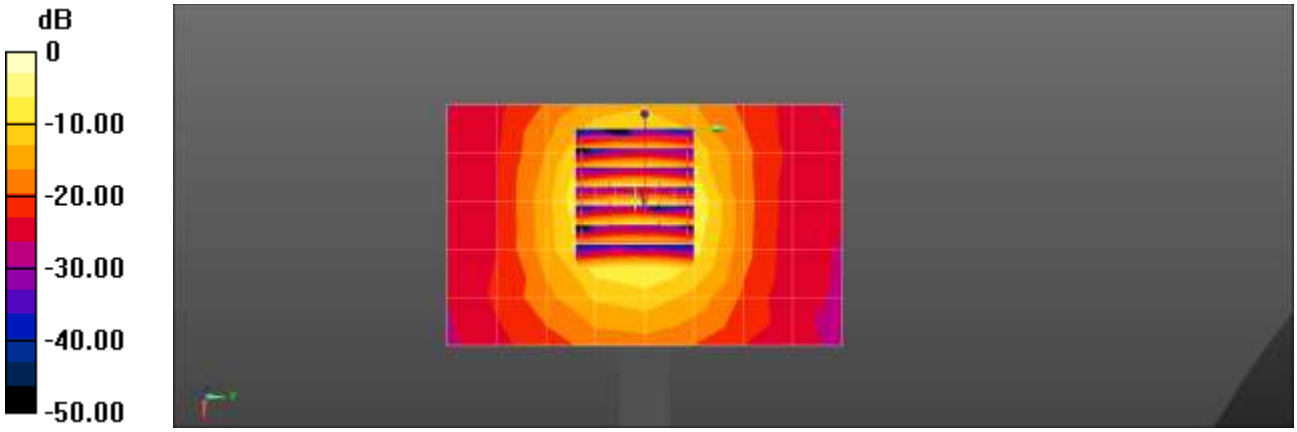
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.69 S/m; $\varepsilon_r$ = 37.001; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.87, 5.87, 5.87) @ 5250 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5250MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.19 W/kg

**Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 45.95 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 16.3 W/kg
**SAR(1 g) = 3.9 W/kg; SAR(10 g) = 1.13 W/kg**
Maximum value of SAR (measured) = 9.74 W/kg




0 dB = 9.74 W/kg = 9.89 dBW/kg

■ **Verification Data (5 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/18/2024** |
| **Band:** | **5.6 ㎓ WLAN Head Ant.1** |

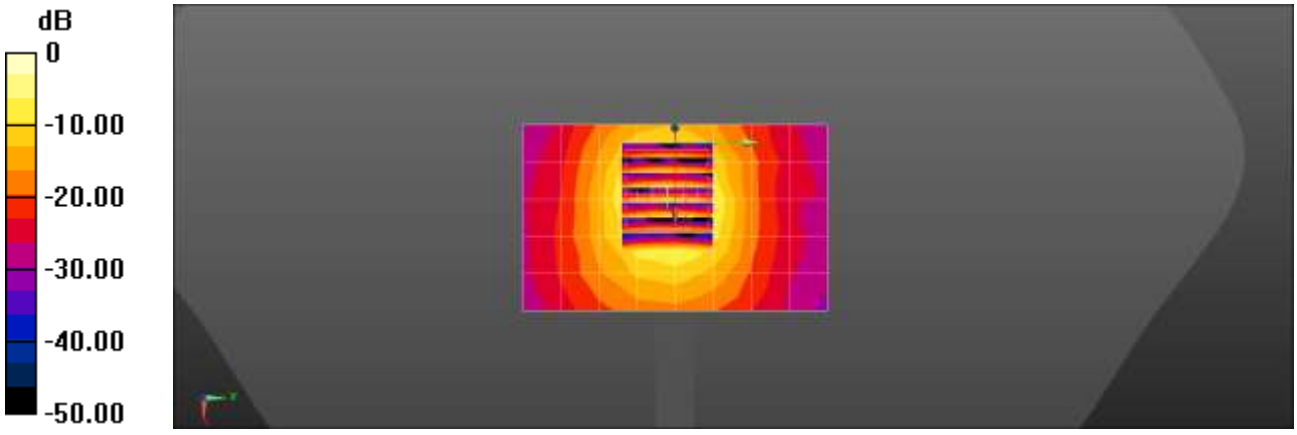
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.012 S/m; $\varepsilon_r$ = 36.434; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.12, 5.12, 5.12) @ 5600 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5600MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.44 W/kg

**Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 45.13 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 17.5 W/kg
**SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.1 W/kg**
Maximum value of SAR (measured) = 10.0 W/kg




0 dB = 10.0 W/kg = 10.00 dBW/kg

■ **Verification Data (5 750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/18/2024** |
| **Band:** | **5.75 ㎓ WLAN Head Ant.1** |

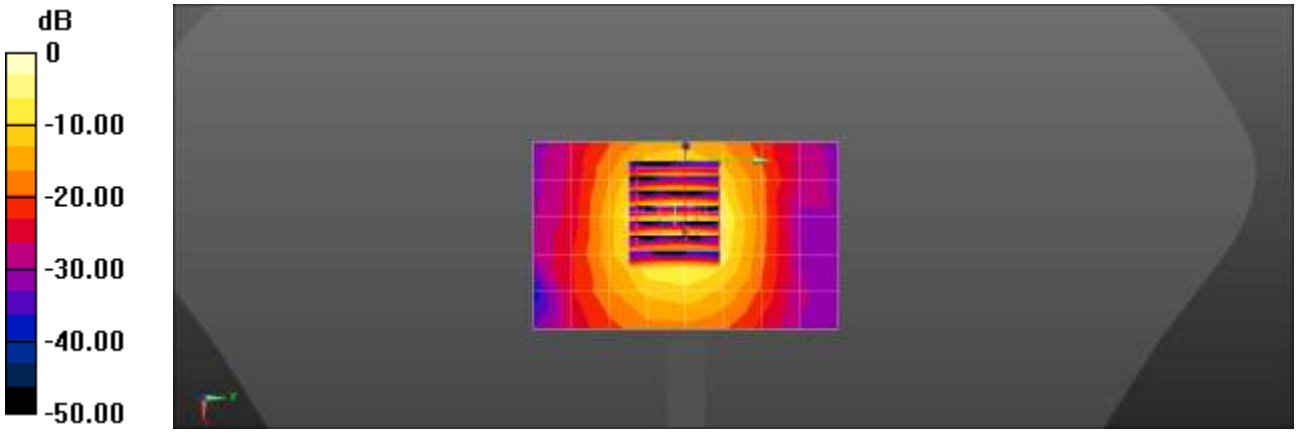
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; $\sigma$ = 5.22 S/m; $\varepsilon_r$ = 36.424; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.34, 5.34, 5.34) @ 5750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5750MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.82 W/kg

**Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 44.48 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 17.3 W/kg
**SAR(1 g) = 3.7 W/kg; SAR(10 g) = 1.05 W/kg**
Maximum value of SAR (measured) = 9.59 W/kg




0 dB = 9.59 W/kg = 9.82 dBW/kg

■ **Verification Data (5 800 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/18/2024** |
| **Band:** | **5.8 ㎓ WLAN Head Ant.1** |

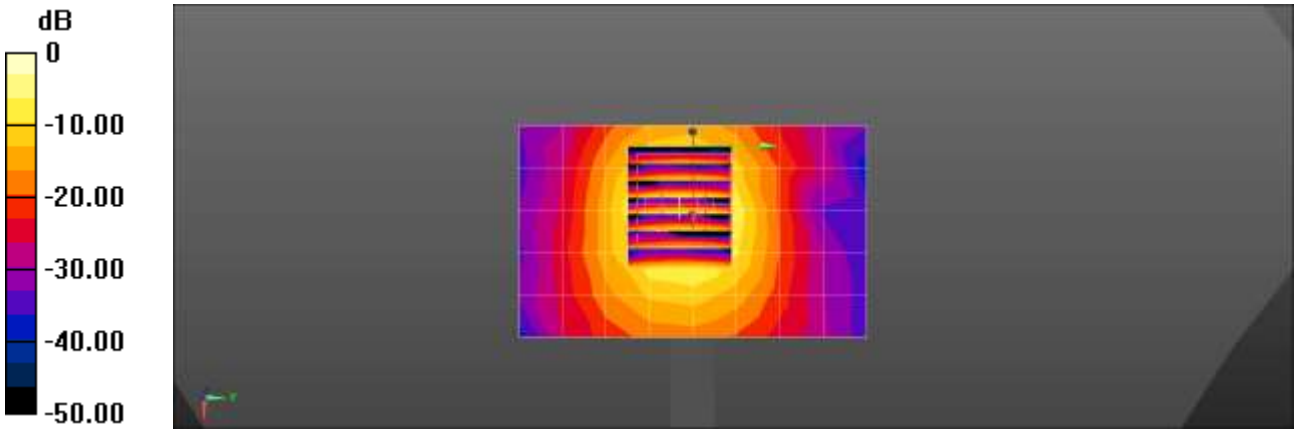
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; $\sigma$ = 5.154 S/m; $\varepsilon_r$ = 36.452; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.24, 5.24, 5.24) @ 5800 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5800MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.23 W/kg

**Dipole/5800MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.26 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 19.1 W/kg
**SAR(1 g) = 3.92 W/kg; SAR(10 g) = 1.09 W/kg**
Maximum value of SAR (measured) = 10.4 W/kg




0 dB = 10.4 W/kg = 10.17 dBW/kg

■ **Verification Data (5 250 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/19/2024** |
| **Band:** | **5.25 ㎓ WLAN Head Ant.2** |

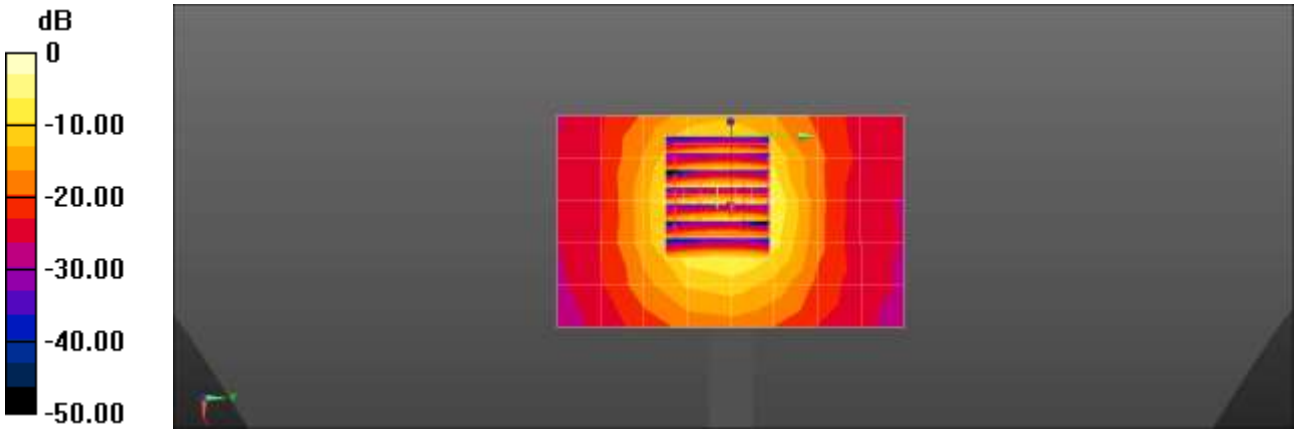
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.699 S/m; $\varepsilon_r$ = 37.017; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.87, 5.87, 5.87) @ 5250 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5250MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.90 W/kg

**Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.04 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 16.1 W/kg
**SAR(1 g) = 3.87 W/kg; SAR(10 g) = 1.12 W/kg**
Maximum value of SAR (measured) = 9.58 W/kg




0 dB = 9.58 W/kg = 9.81 dBW/kg

■ **Verification Data (5 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/19/2024** |
| **Band:** | **5.6 ㎓ WLAN Head Ant.2** |

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.01 S/m; $\varepsilon_r$ = 36.45; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

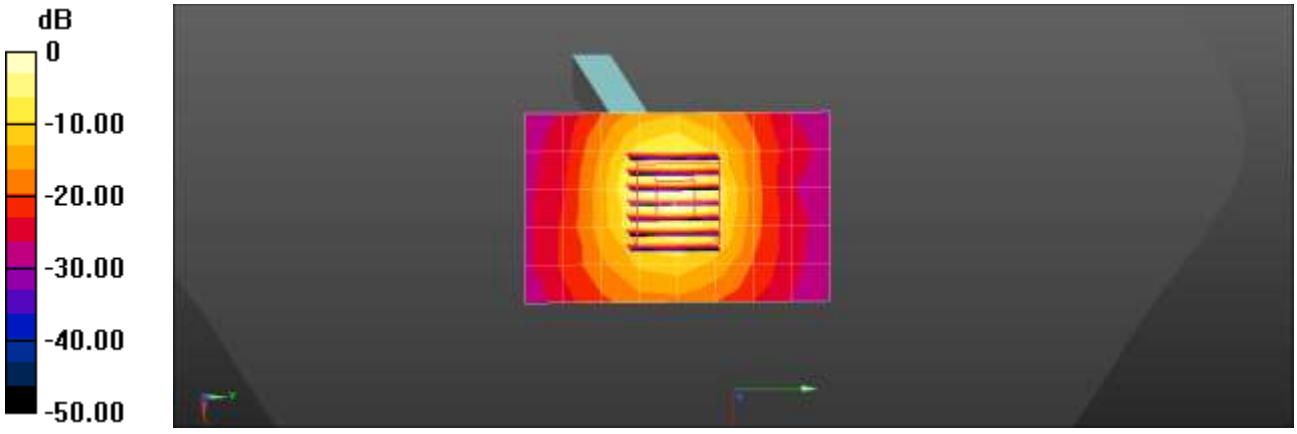
DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.12, 5.12, 5.12) @ 5600 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5600MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.30 W/kg

**Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 45.13 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 17.3 W/kg
**SAR(1 g) = 3.82 W/kg; SAR(10 g) = 1.09 W/kg**

Maximum value of SAR (measured) = 9.91 W/kg




0 dB = 9.91 W/kg = 9.96 dBW/kg

■ **Verification Data (5 750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/19/2024** |
| **Band:** | **5.75 ㎓ WLAN Head Ant.2** |

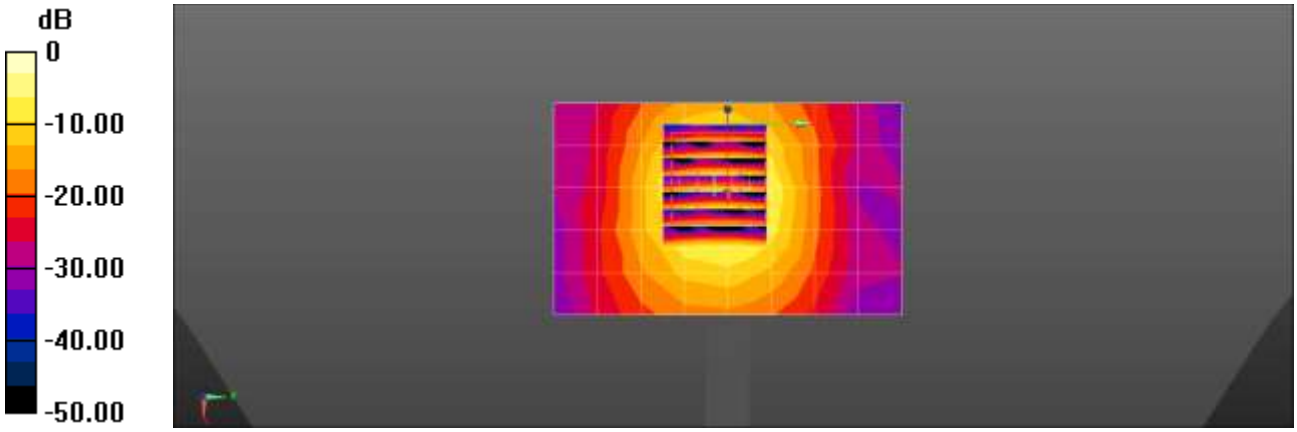
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; $\sigma$ = 5.216 S/m; $\varepsilon_r$ = 36.417; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.34, 5.34, 5.34) @ 5750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5750MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.83 W/kg

**Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 44.52 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 17.5 W/kg
**SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.05 W/kg**
Maximum value of SAR (measured) = 9.62 W/kg




0 dB = 9.62 W/kg = 9.83 dBW/kg

■ **Verification Data (5 800 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.3 ℃** |
| **Test Date:** | **03/19/2024** |
| **Band:** | **5.8 ㎓ WLAN Head Ant.2** |

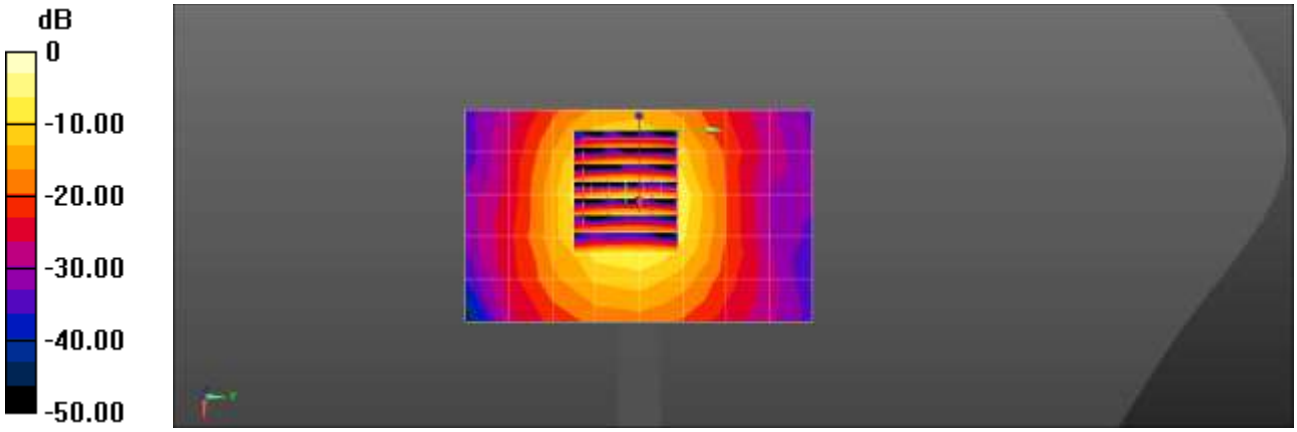
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; $\sigma$ = 5.156 S/m; $\varepsilon_r$ = 36.459; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(5.24, 5.24, 5.24) @ 5800 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2024-01-30
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_Left-Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole/5800MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.23 W/kg

**Dipole/5800MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.13 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 19.3 W/kg
**SAR(1 g) = 3.93 W/kg; SAR(10 g) = 1.09 W/kg**
Maximum value of SAR (measured) = 10.5 W/kg




0 dB = 10.5 W/kg = 10.21 dBW/kg

■ **Verification Data (5 250 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.5 ℃** |
| **Test Date:** | **03/12/2024** |
| **Band:** | **5.25 ㎓ WLAN Body** |

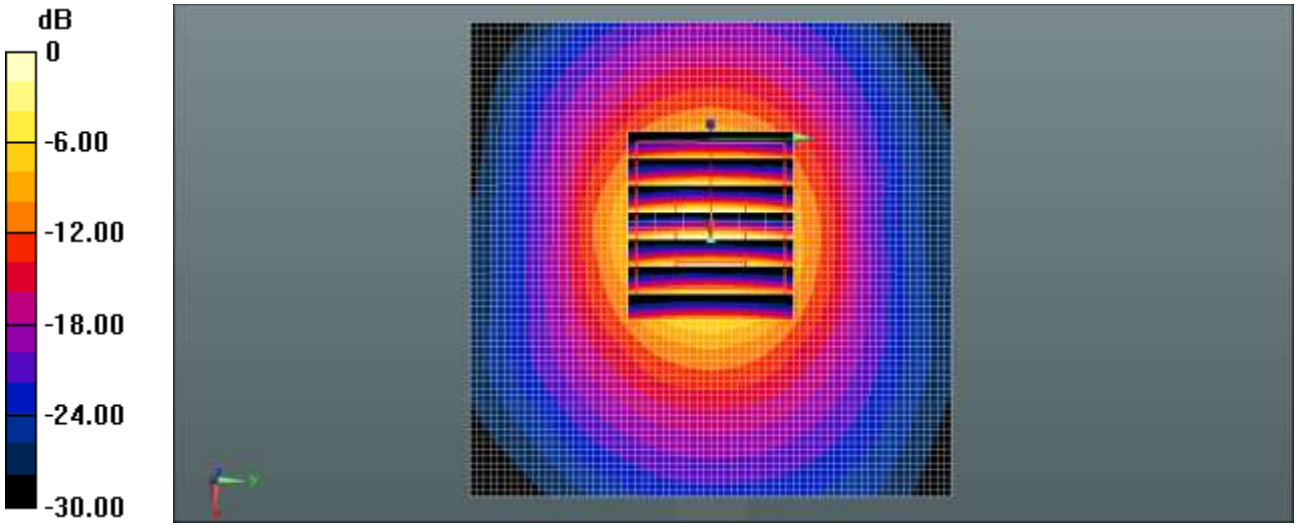
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.609 S/m; $\varepsilon_r$ = 36.774; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(5.2, 5.2, 5.2) @ 5250 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Dipole/5250MHz Head Verification/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.56 W/kg

**Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.34 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 16.4 W/kg
**SAR(1 g) = 3.93 W/kg; SAR(10 g) = 1.12 W/kg**
Maximum value of SAR (measured) = 10.1 W/kg




0 dB = 10.1 W/kg = 10.04 dBW/kg

■ **Verification Data (5 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.8 ℃** |
| **Test Date:** | **03/13/2024** |
| **Band:** | **5.6 ㎓ WLAN Body** |

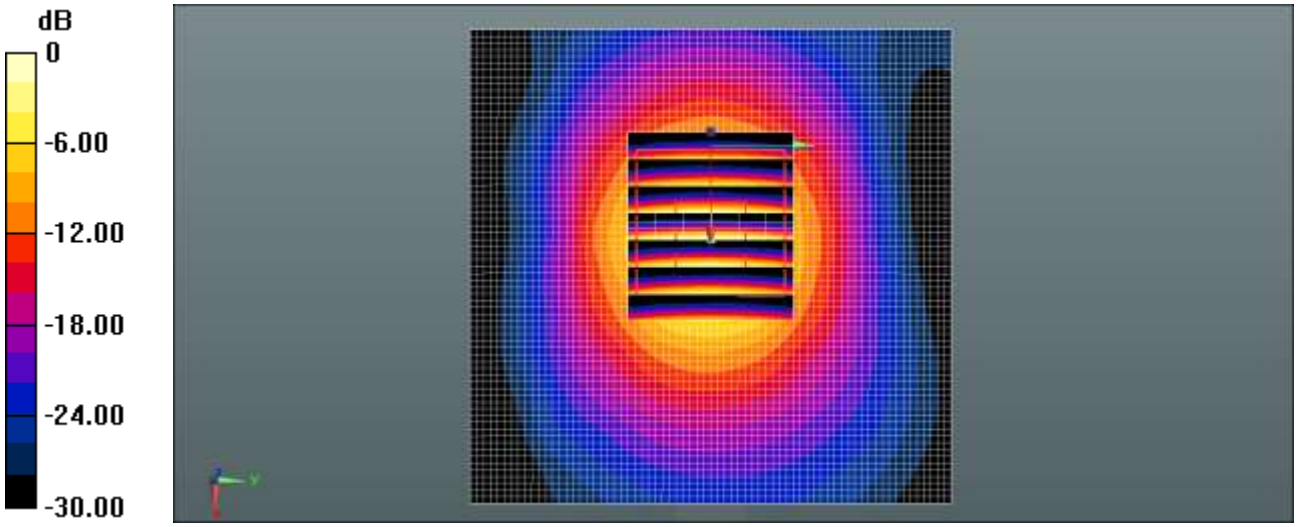
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; $\sigma$ = 4.916 S/m; $\varepsilon_r$ = 36.482; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(4.51, 4.51, 4.51) @ 5600 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Dipole/5600MHz Head Verification/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 10.8 W/kg

**Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.52 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 19.5 W/kg
**SAR(1 g) = 4.26 W/kg; SAR(10 g) = 1.2 W/kg**
Maximum value of SAR (measured) = 11.3 W/kg




0 dB = 11.3 W/kg = 10.53 dBW/kg

■ **Verification Data (5 750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.9 ℃** |
| **Test Date:** | **03/14/2024** |
| **Band:** | **5.75 ㎓ WLAN Body Ant.1** |

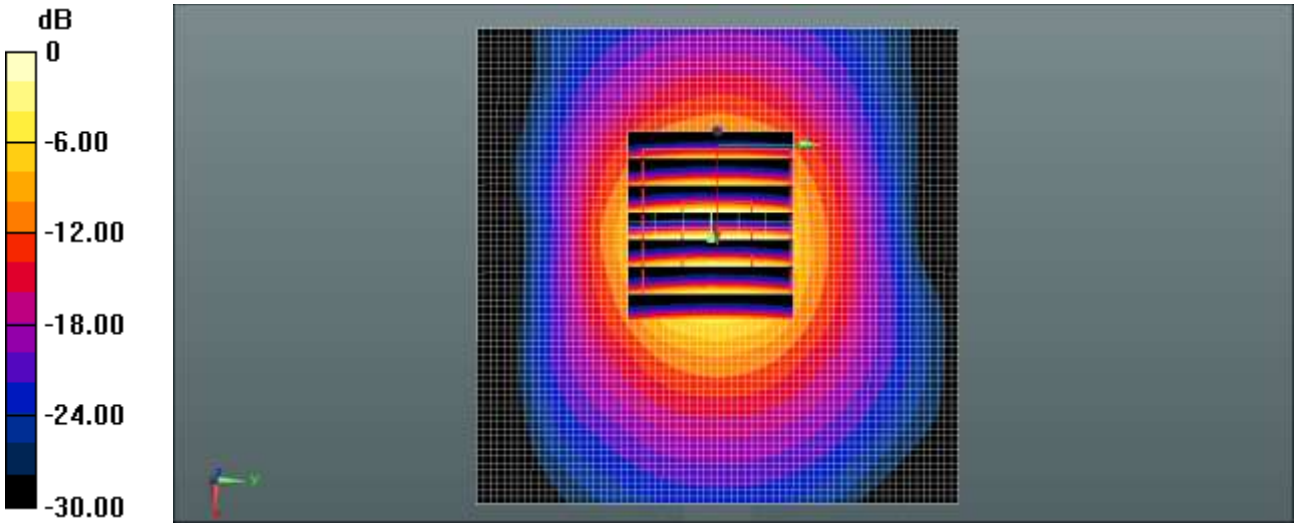
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; $\sigma$ = 5.121 S/m; $\varepsilon_r$ = 36.315; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(4.7, 4.7, 4.7) @ 5750 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Dipole/5750MHz Head Verification/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 10.2 W/kg

**Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 47.21 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 18.8 W/kg
**SAR(1 g) = 3.98 W/kg; SAR(10 g) = 1.12 W/kg**
Maximum value of SAR (measured) = 10.5 W/kg




0 dB = 10.5 W/kg = 10.21 dBW/kg

■ **Verification Data (5 750 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **20.4 ℃** |
| **Test Date:** | **03/15/2024** |
| **Band:** | **5.75 ㎓ WLAN Body Ant.2** |

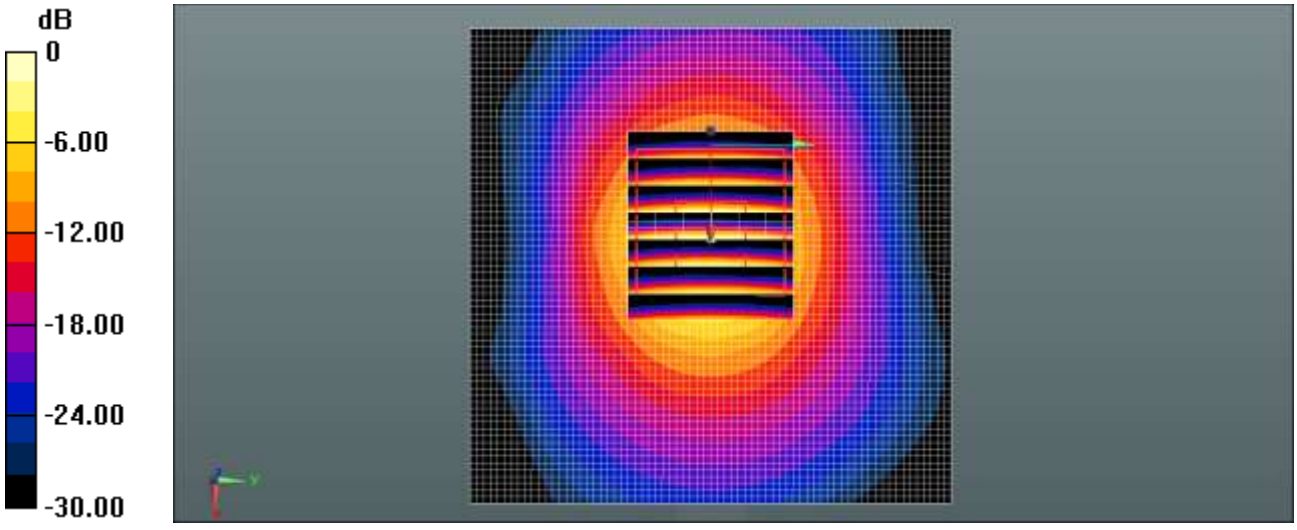
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; $\sigma$ = 5.124 S/m; $\varepsilon_r$ = 36.307; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(4.7, 4.7, 4.7) @ 5750 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Dipole/5750MHz Head Verification/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 10.2 W/kg

**Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 47.13 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 19.0 W/kg
**SAR(1 g) = 3.98 W/kg; SAR(10 g) = 1.12 W/kg**
Maximum value of SAR (measured) = 10.7 W/kg




0 dB = 10.7 W/kg = 10.29 dBW/kg

■ **Verification Data (5 800 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.5 ℃** |
| **Test Date:** | **03/18/2024** |
| **Band:** | **5.80 ㎓ WLAN Body Ant.2** |

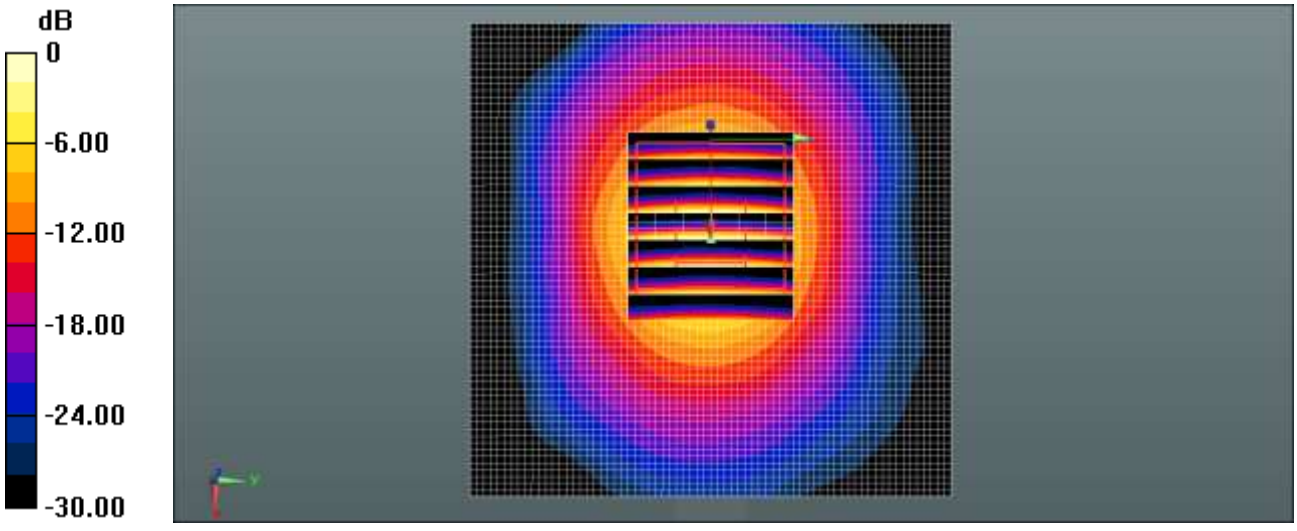
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; $\sigma$ = 5.072 S/m; $\varepsilon_r$ = 36.271; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(4.66, 4.66, 4.66) @ 5800 MHz; Calibrated: 2023-10-06
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2023-11-16
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Dipole/5800MHz Head Verification/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 10.5 W/kg

**Dipole/5800MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.03 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 19.7 W/kg
**SAR(1 g) = 4.06 W/kg; SAR(10 g) = 1.14 W/kg**
Maximum value of SAR (measured) = 11.0 W/kg




0 dB = 11.0 W/kg = 10.41 dBW/kg

## 5G NR SUB 6

■ **Verification Data (835 ㎒ Head)**

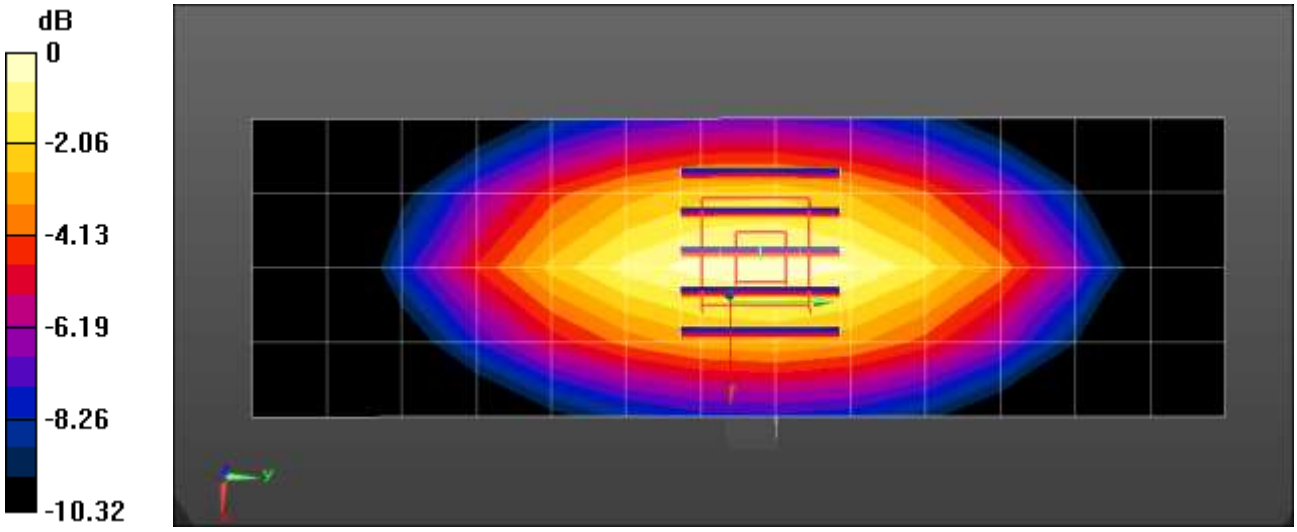
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.3 ℃** |
| **Test Date:** | **03/29/2024** |
| **Band:** | **NR FDD Band n5 Ant.A Close** |

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 40.763; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 835 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/835MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.619 W/kg
**Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.18 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.686 W/kg
**SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.330 W/kg**
Maximum value of SAR (measured) = 0.638 W/kg




0 dB = 0.638 W/kg = -1.95 dBW/kg

■ **Verification Data (835 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.2 ℃** |
| **Test Date:** | **03/28/2024** |
| **Band:** | **NR FDD Band n5 Ant.A Open** |

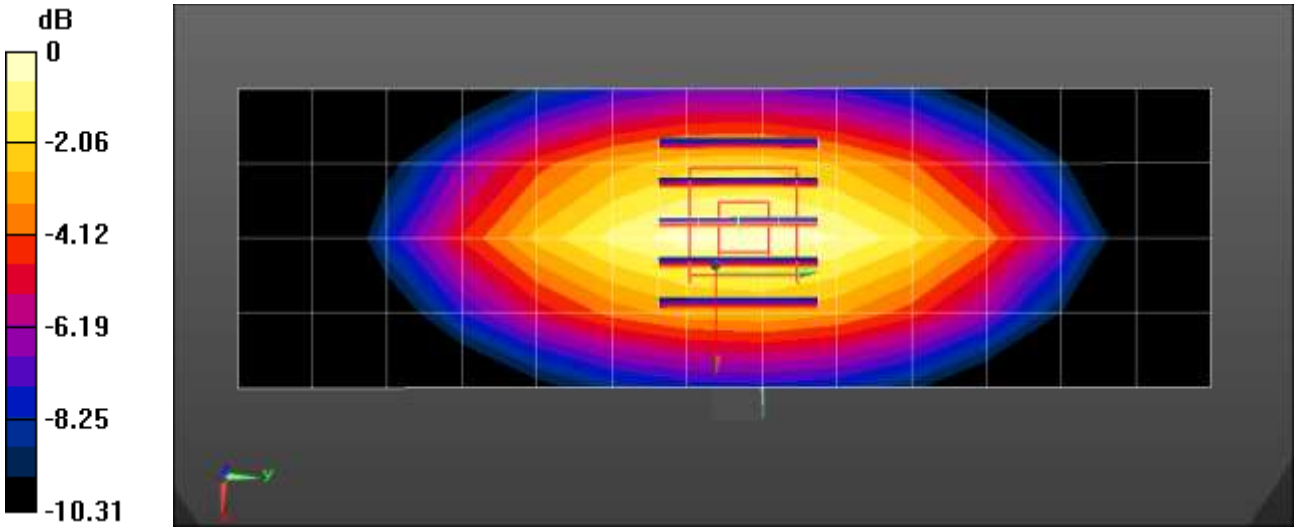
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; $\sigma$ = 0.927 S/m; $\varepsilon_r$ = 40.71; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(9.78, 10.51, 9.13) @ 835 MHz; Calibrated: 2024-01-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2023-04-24
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/835MHz Head Verification/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.622 W/kg

**Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.90 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.692 W/kg
**SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.333 W/kg**
Maximum value of SAR (measured) = 0.644 W/kg




0 dB = 0.644 W/kg = -1.91 dBW/kg

■ **Verification Data (1 800 ㎒ Head)**

**Test Laboratory:** **HCT CO., LTD**
**Input Power** **0.05 W**
**Liquid Temp:** **23.5 ℃**
**Test Date:** **04/14/2024**
**Band:** **NR FDD Band n66 Ant.A Close**

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0- - | 1800.0, 0 | 9.17 | 1.39 | 41.2 |

**Hardware Setup**

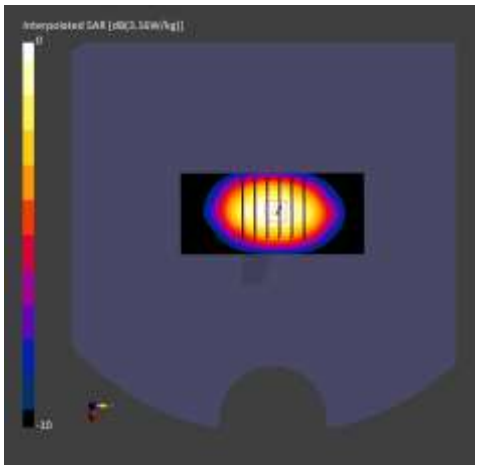
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.77 | 1.74 |
| psSAR10g [W/Kg] | 0.937 | 0.921 |
| Power Drift [dB] | 0.01 | 0.01 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.3 ℃
**Test Date:** 04/13/2024
**Band:** NR FDD Band n66 Ant.A Open

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0-- | 1800.0, 0 | 9.17 | 1.39 | 41.2 |

**Hardware Setup**

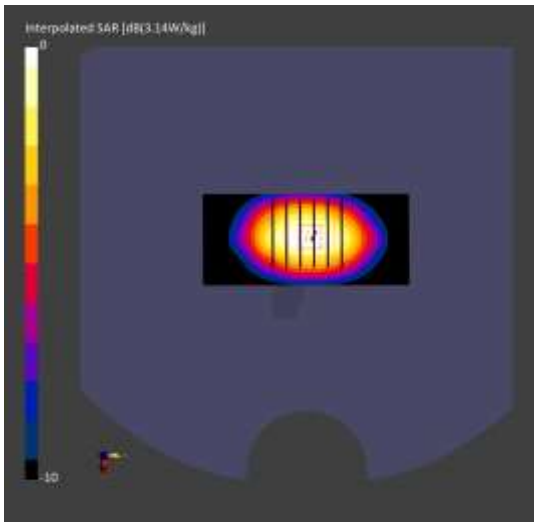
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.75 | 1.73 |
| psSAR10g [W/Kg] | 0.929 | 0.915 |
| Power Drift [dB] | 0.03 | 0.00 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 22.6 ℃
**Test Date:** 04/26/2024
**Band:** NR FDD Band n66 Ant.I Close

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0- - | 1800.0, 0 | 9.17 | 1.39 | 41.3 |

**Hardware Setup**

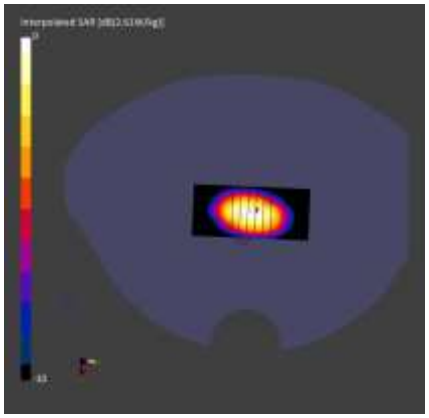
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.07 | 2.07 |
| psSAR10g [W/Kg] | 1.07 | 1.07 |
| Power Drift [dB] | 0.00 | 0.00 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 22.8 ℃
**Test Date:** 04/25/2024
**Band:** NR FDD Band n66 Ant.I Open

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0- - | 1800.0, 0 | 9.17 | 1.39 | 41.3 |

**Hardware Setup**

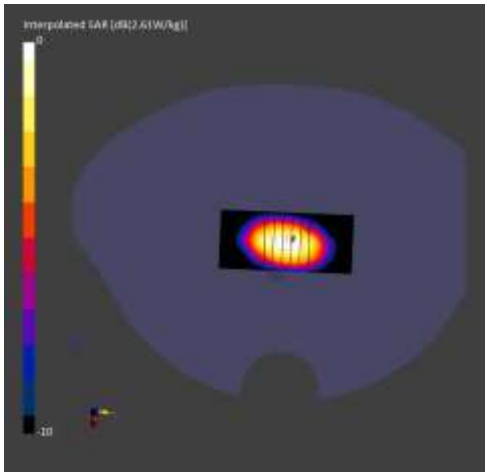
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.07 | 2.07 |
| psSAR10g [W/Kg] | 1.07 | 1.07 |
| Power Drift [dB] | 0.01 | 0.00 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.8 ℃
**Test Date:** 04/20/2024
**Band:** NR FDD Band n25 Ant.A Close

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0- - | 1900.0, 0 | 8.81 | 1.39 | 39.0 |

**Hardware Setup**

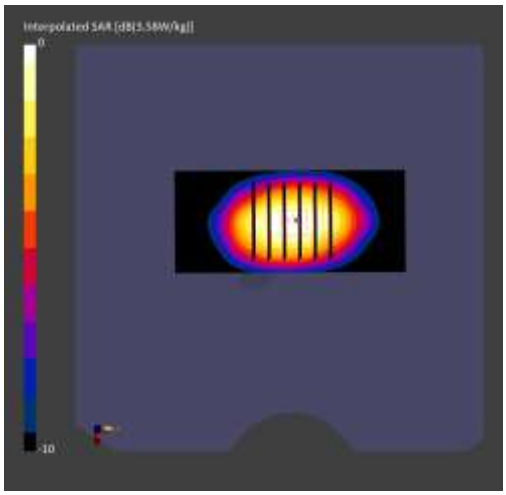
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.98 | 1.94 |
| psSAR10g [W/Kg] | 1.03 | 0.998 |
| Power Drift [dB] | 0.01 | -0.01 |



■ **Verification Data (1 900 ㎒ Head)**

**Test Laboratory:** **HCT CO., LTD**
**Input Power** **0.05 W**
**Liquid Temp:** **24.5 ℃**
**Test Date:** **04/19/2024**
**Band:** **NR FDD Band n25 Ant.A Open**

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0- - | 1900.0, 0 | 8.81 | 1.39 | 39.0 |

**Hardware Setup**

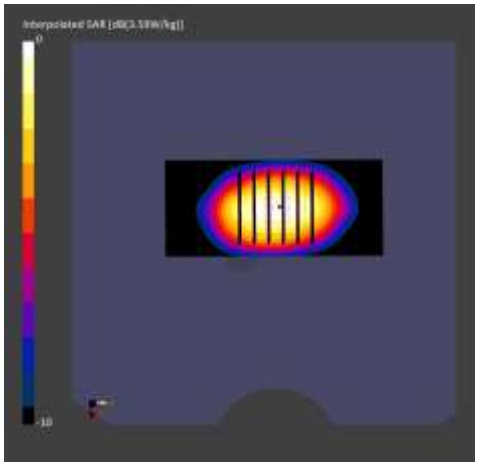
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.97 | 1.94 |
| psSAR10g [W/Kg] | 1.03 | 0.997 |
| Power Drift [dB] | 0.00 | 0.02 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 21.7 ℃
**Test Date:** 04/29/2024
**Band:** NR FDD Band n25 Ant.I Close

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0-- | 1900.0, 0 | 8.81 | 1.37 | 39.0 |

**Hardware Setup**

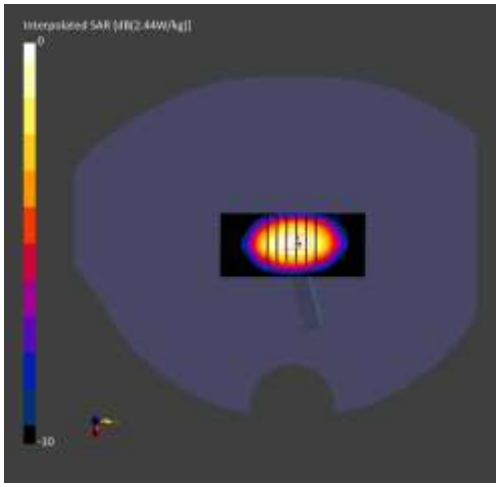
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.94 | 1.93 |
| psSAR10g [W/Kg] | 0.996 | 0.996 |
| Power Drift [dB] | -0.00 | -0.00 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 22.3 ℃
**Test Date:** 04/28/2024
**Band:** NR FDD Band n25 Ant.I Open

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0- - | 1900.0, 0 | 8.81 | 1.37 | 39.0 |

**Hardware Setup**

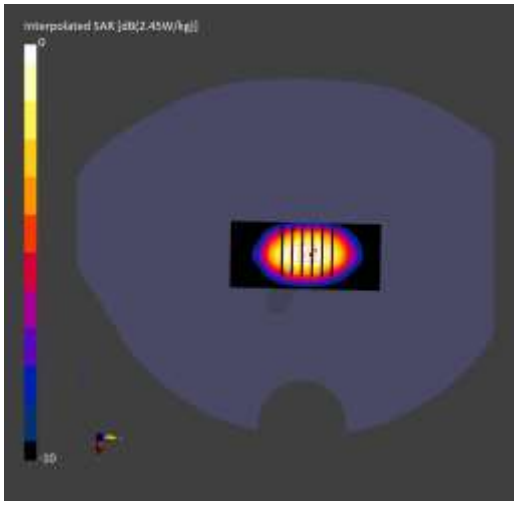
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.94 | 1.93 |
| psSAR10g [W/Kg] | 0.999 | 0.996 |
| Power Drift [dB] | -0.00 | -0.01 |



■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.9 ℃** |
| **Test Date:** | **03/27/2024** |
| **Band:** | **NR TDD Band n41 Open** |

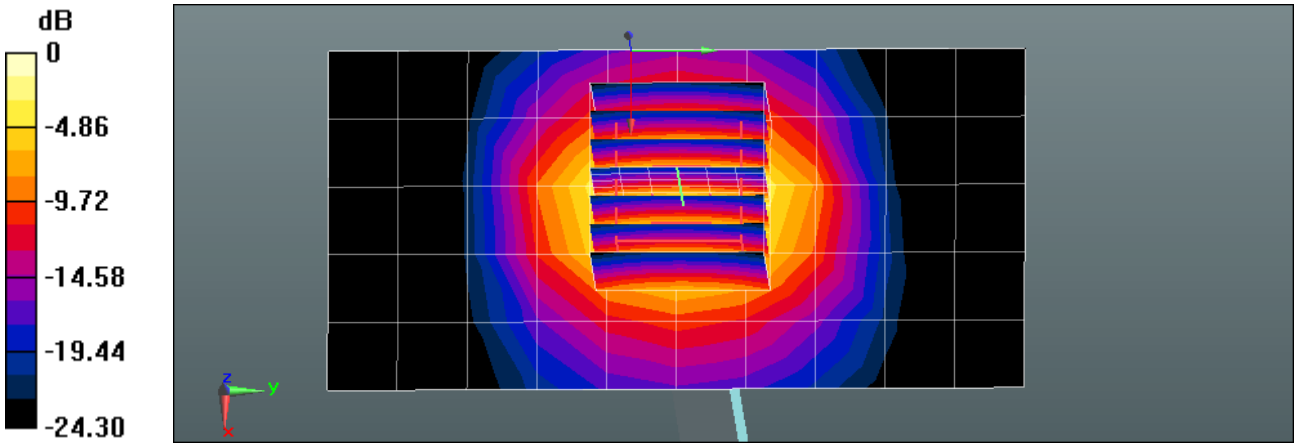
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.007 S/m; $\varepsilon_r$ = 39.165; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.87, 7.41, 7.6) @ 2600 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**2600MHz Head Verification/Area Scan (6x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.12 W/kg

**2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.47 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 5.93 W/kg
**SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.21 W/kg**
Maximum value of SAR (measured) = 4.75 W/kg




0 dB = 4.75 W/kg = 6.77 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **22.6 ℃** |
| **Test Date:** | **03/28/2024** |
| **Band:** | **NR TDD Band n41 Close** |

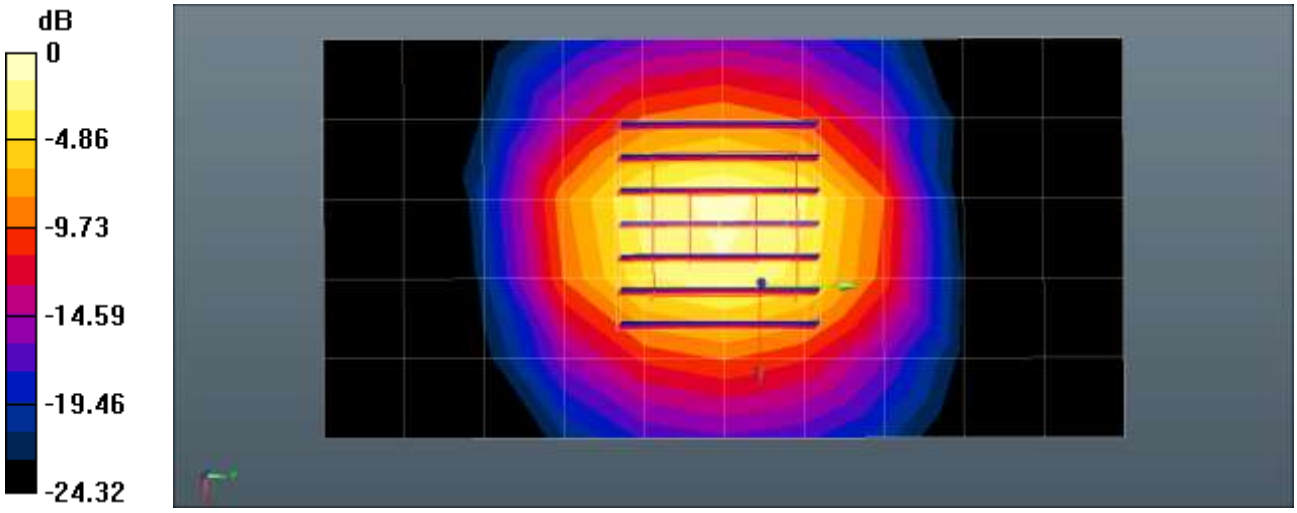
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.008 S/m; $\varepsilon_r$ = 39.135; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.87, 7.41, 7.6) @ 2600 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/2600MHz Head Verification/Area Scan (6x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.90 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.40 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 5.95 W/kg
**SAR(1 g) = 2.79 W/kg; SAR(10 g) = 1.25 W/kg**
Maximum value of SAR (measured) = 4.80 W/kg




0 dB = 4.80 W/kg = 6.81 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.2 ℃** |
| **Test Date:** | **04/02/2024** |
| **Band:** | **NR TDD Band n41 SRS2** |

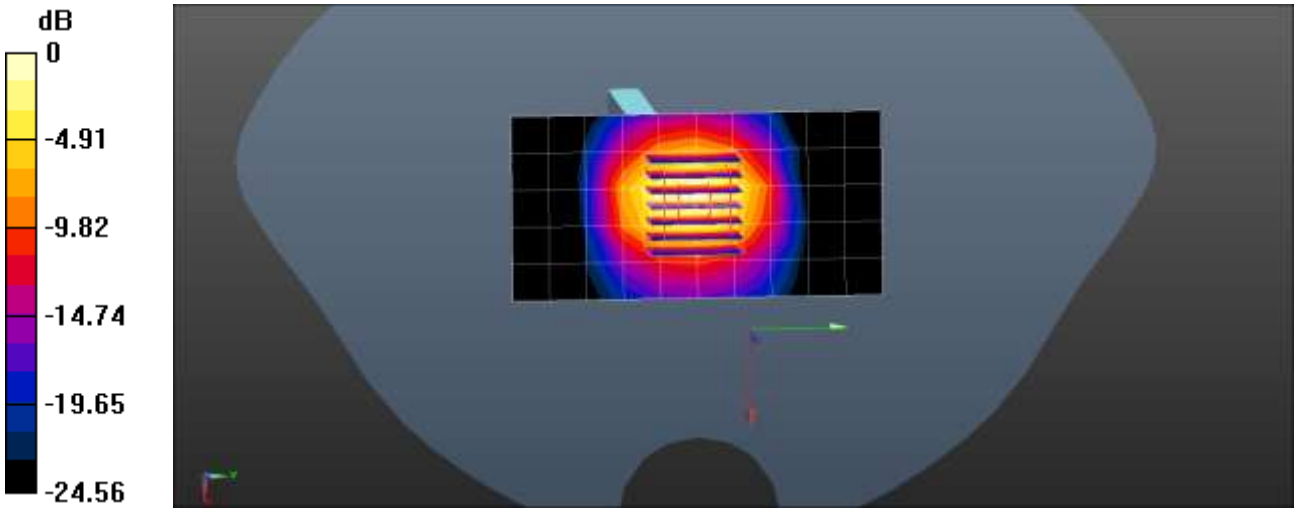
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.007 S/m; $\varepsilon_r$ = 39.142; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2600 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/2600MHz Head Verification/Area Scan (6x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.02 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.39 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 5.63 W/kg
**SAR(1 g) = 2.6 W/kg; SAR(10 g) = 1.16 W/kg**
Maximum value of SAR (measured) = 4.50 W/kg




0 dB = 4.50 W/kg = 6.53 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.0 ℃** |
| **Test Date:** | **04/03/2024** |
| **Band:** | **NR TDD Band n41 SRS3** |

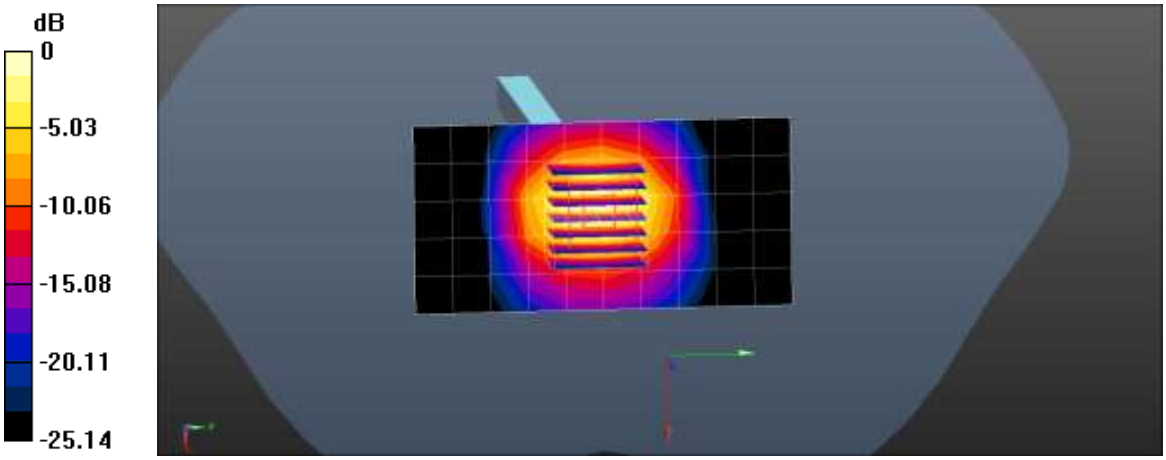
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.008 S/m; $\varepsilon_r$ = 39.145; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2600 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/2600MHz Head Verification/Area Scan (6x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.00 W/kg

**Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.20 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 5.69 W/kg
**SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.17 W/kg**
Maximum value of SAR (measured) = 4.51 W/kg




0 dB = 4.51 W/kg = 6.54 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/04/2024** |
| **Band:** | **NR TDD Band n41 SRS3** |

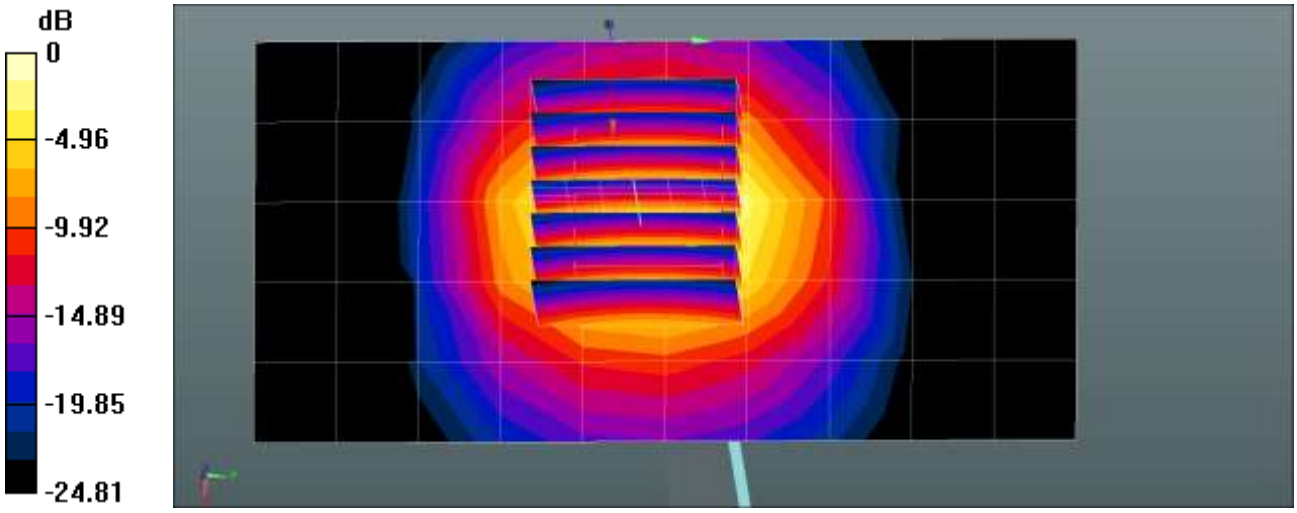
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.008 S/m; $\varepsilon_r$ = 39.145; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2600 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**2600MHz Head Verification/Area Scan (6x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.02 W/kg

**2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.29 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 5.68 W/kg
**SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.17 W/kg**
Maximum value of SAR (measured) = 4.49 W/kg




0 dB = 4.49 W/kg = 6.52 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/01/2024** |
| **Band:** | **NR TDD Band n77 Close** |

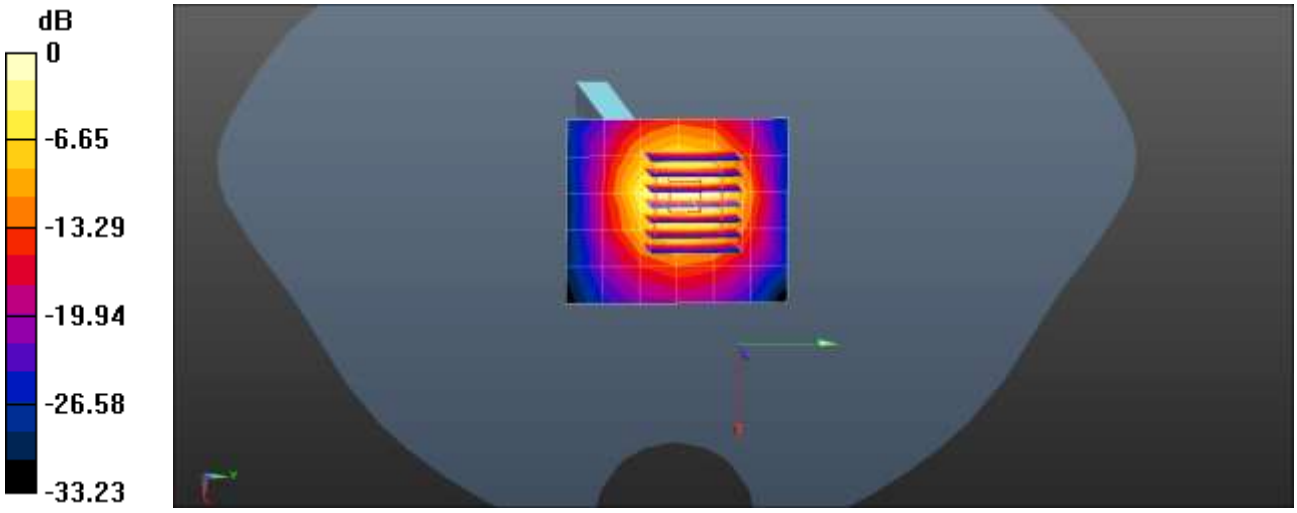
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.921 S/m; $\varepsilon_r$ = 37.251; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3500MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.11 W/kg

**Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.35 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 8.57 W/kg
**SAR(1 g) = 3.12 W/kg; SAR(10 g) = 1.16 W/kg**
Maximum value of SAR (measured) = 6.24 W/kg




0 dB = 6.24 W/kg = 7.95 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.9 ℃** |
| **Test Date:** | **03/29/2024** |
| **Band:** | **NR TDD Band n77 Open** |

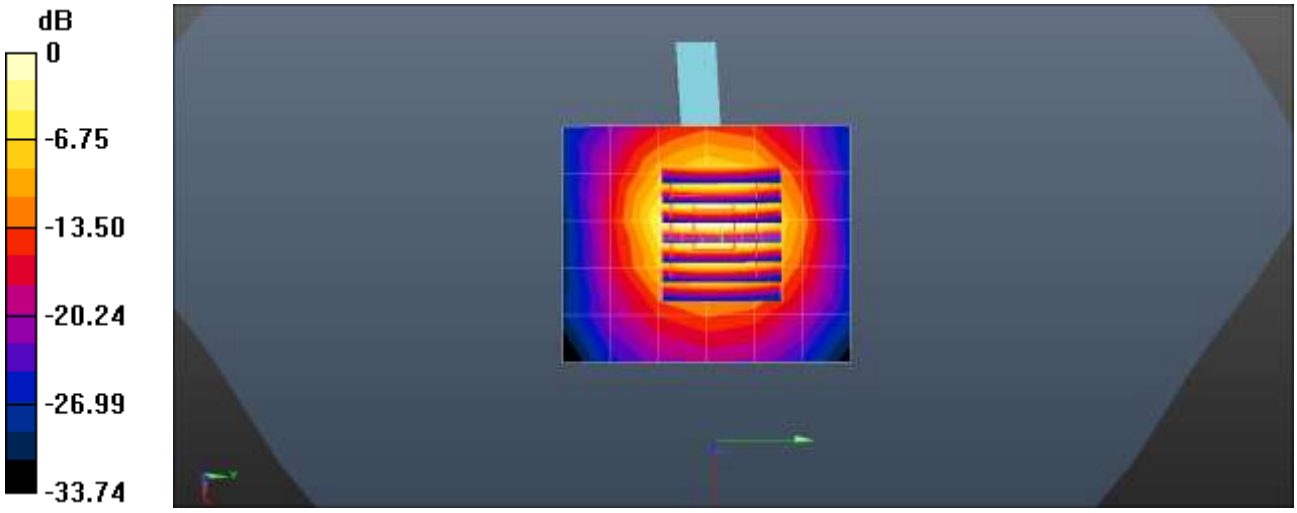
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.967 S/m; $\varepsilon_r$ = 38.236; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3500MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.31 W/kg

**Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.33 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 8.66 W/kg
**SAR(1 g) = 3.17 W/kg; SAR(10 g) = 1.18 W/kg**
Maximum value of SAR (measured) = 6.28 W/kg




0 dB = 6.28 W/kg = 7.98 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.1 ℃** |
| **Test Date:** | **04/05/2024** |
| **Band:** | **NR TDD Band n77 SRS2** |

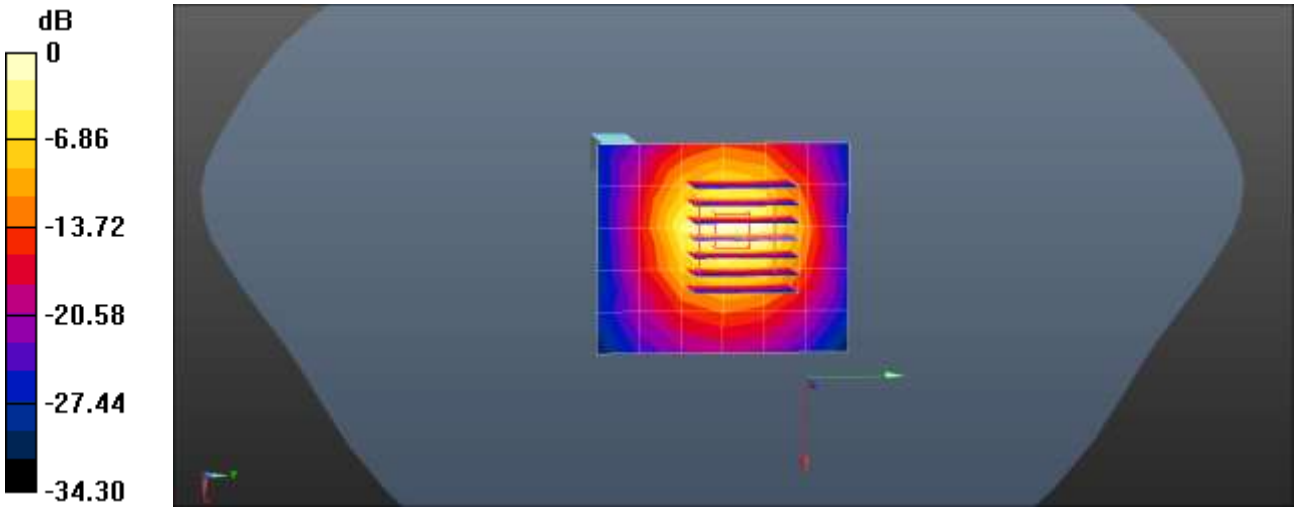
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.937 S/m; $\varepsilon_r$ = 36.693; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3500MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.17 W/kg

**Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.41 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 8.59 W/kg
**SAR(1 g) = 3.14 W/kg; SAR(10 g) = 1.16 W/kg**
Maximum value of SAR (measured) = 6.27 W/kg




0 dB = 6.27 W/kg = 7.97 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.9 ℃** |
| **Test Date:** | **04/08/2024** |
| **Band:** | **NR TDD Band n77 SRS3** |

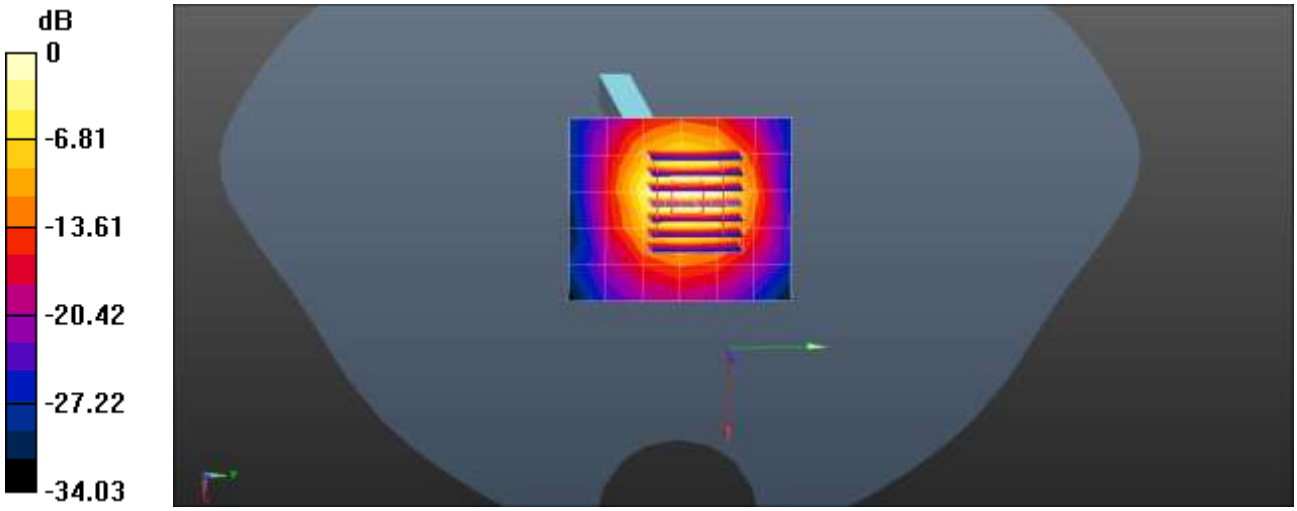
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.912 S/m; $\varepsilon_r$ = 37.155; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3500MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.14 W/kg

**Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.24 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 8.49 W/kg
**SAR(1 g) = 3.1 W/kg; SAR(10 g) = 1.15 W/kg**
Maximum value of SAR (measured) = 6.17 W/kg




0 dB = 6.17 W/kg = 7.90 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/09/2024** |
| **Band:** | **NR TDD Band n77 SRS4** |

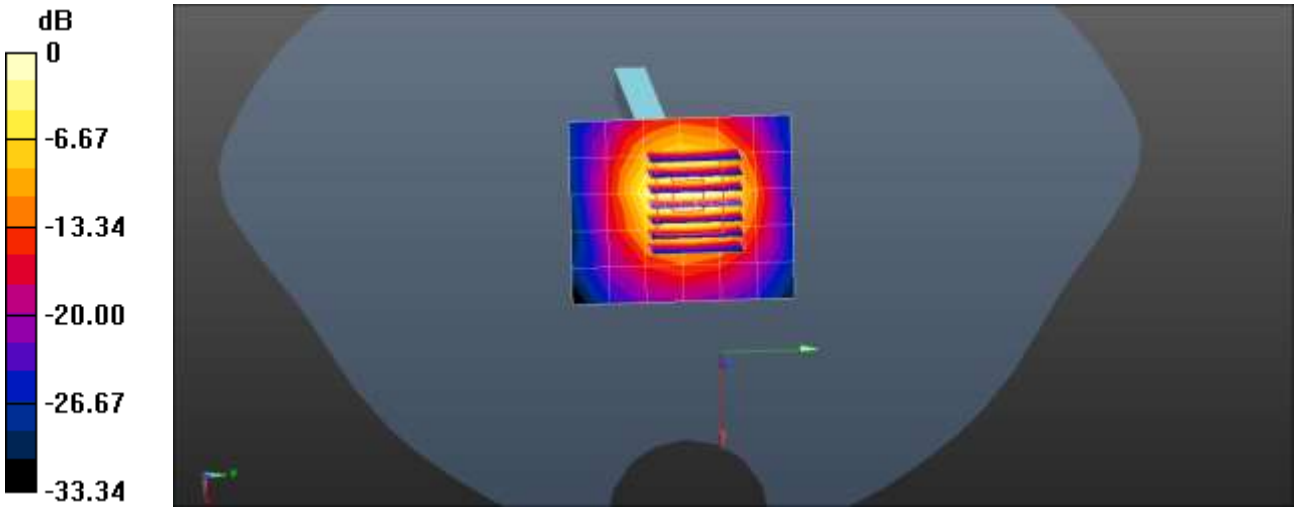
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.912 S/m; $\varepsilon_r$ = 37.172; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3500MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.07 W/kg

**Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.25 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 8.53 W/kg
**SAR(1 g) = 3.11 W/kg; SAR(10 g) = 1.15 W/kg**
Maximum value of SAR (measured) = 6.23 W/kg




0 dB = 6.23 W/kg = 7.94 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

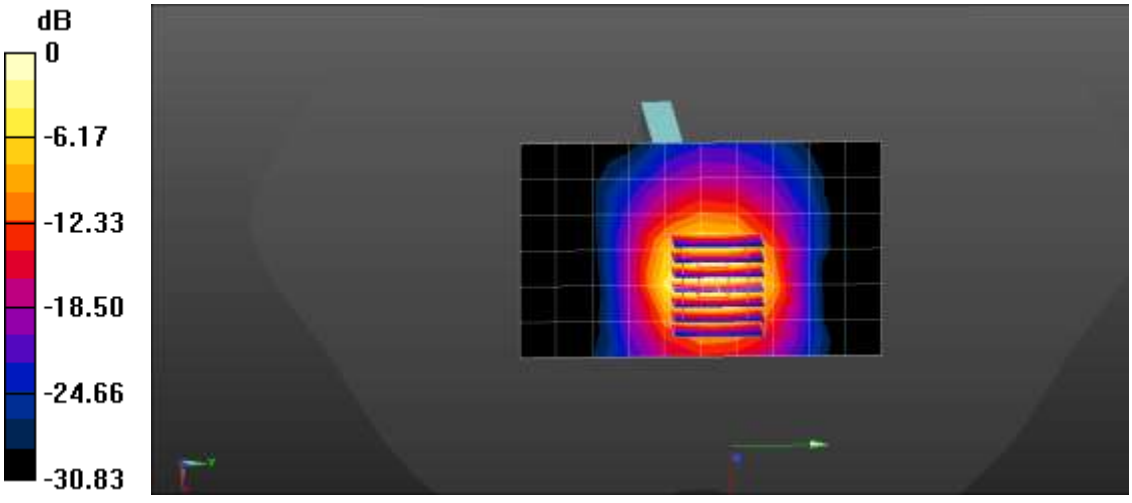
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.5 ℃** |
| **Test Date:** | **05/03/2024** |
| **Band:** | **NR TDD Band n77 DSI3** |

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.886 S/m; $\varepsilon_r$ = 38.454; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**3500MHz Head Verification/Area Scan (7x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.46 W/kg
**3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 45.47 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 8.27 W/kg
**SAR(1 g) = 3.29 W/kg; SAR(10 g) = 1.27 W/kg**
Maximum value of SAR (measured) = 6.26 W/kg




0 dB = 6.26 W/kg = 7.97 dBW/kg

■ **Verification Data (3 500 ㎒ Head)**

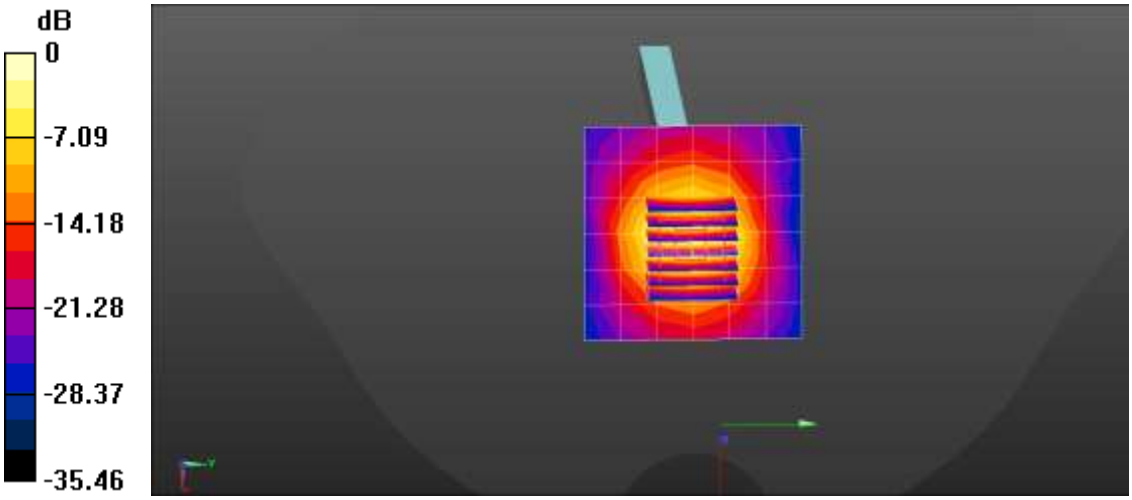
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.6 ℃** |
| **Test Date:** | **05/03/2024** |
| **Band:** | **NR TDD Band n77 DSI3_SRS** |

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; $\sigma$ = 2.904 S/m; $\varepsilon_r$ = 37.766; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.31, 7.33, 7.88) @ 3500 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V8.0_20171017(Left2); Type: QD 000 P41 AA; Serial: 1932
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**3500MHz Head Verification/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.33 W/kg
**3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 49.87 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 9.12 W/kg
**SAR(1 g) = 3.28 W/kg; SAR(10 g) = 1.22 W/kg**
Maximum value of SAR (measured) = 6.62 W/kg




0 dB = 6.62 W/kg = 8.21 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/01/2024** |
| **Band:** | **NR TDD Band n77 Close** |

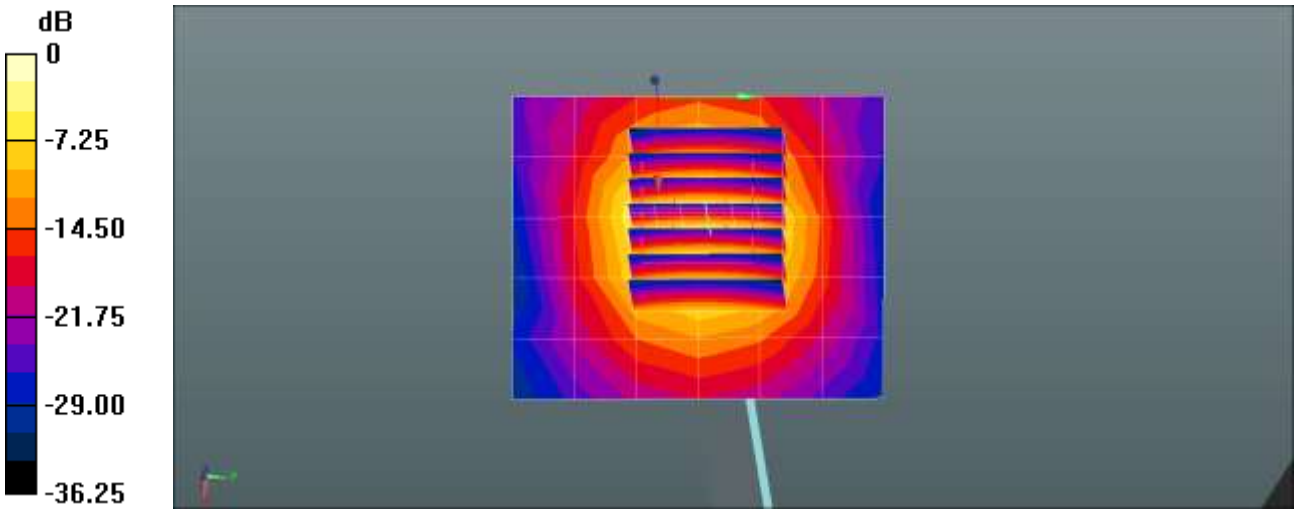
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.072 S/m; $\varepsilon_r$ = 36.956; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3700MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.48 W/kg

**Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.69 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 9.96 W/kg
**SAR(1 g) = 3.48 W/kg; SAR(10 g) = 1.24 W/kg**
Maximum value of SAR (measured) = 7.07 W/kg




0 dB = 7.07 W/kg = 8.49 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.9 ℃** |
| **Test Date:** | **03/29/2024** |
| **Band:** | **NR TDD Band n77 Open** |

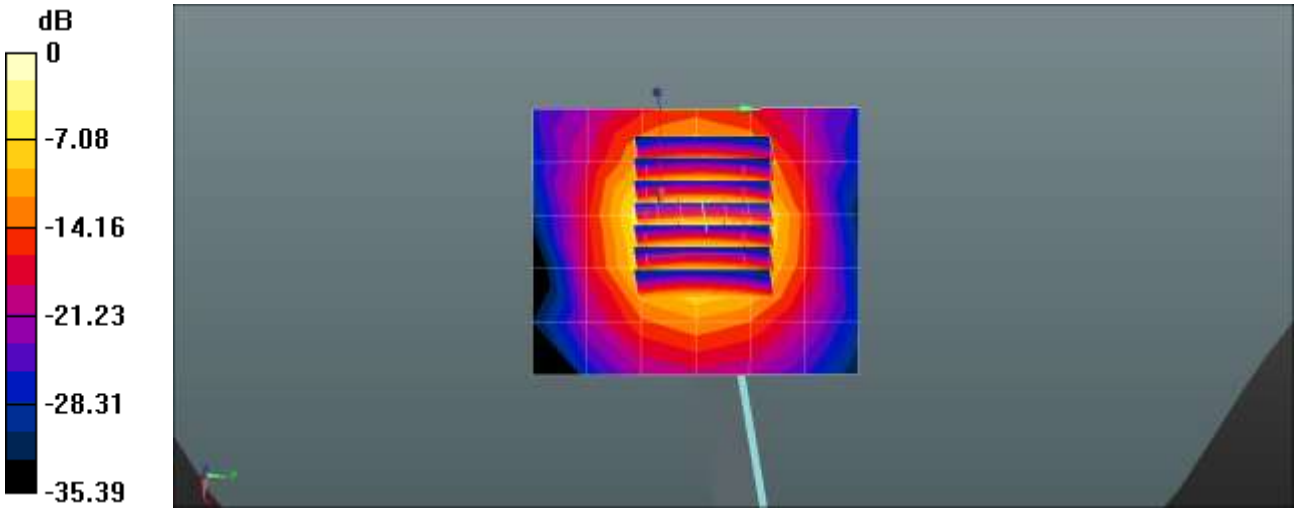
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.152 S/m; $\varepsilon_r$ = 37.871; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3700MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.61 W/kg

**Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.54 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 10.2 W/kg
**SAR(1 g) = 3.54 W/kg; SAR(10 g) = 1.27 W/kg**
Maximum value of SAR (measured) = 7.23 W/kg




0 dB = 7.23 W/kg = 8.59 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.1 ℃** |
| **Test Date:** | **04/05/2024** |
| **Band:** | **NR TDD Band n77 SRS2** |

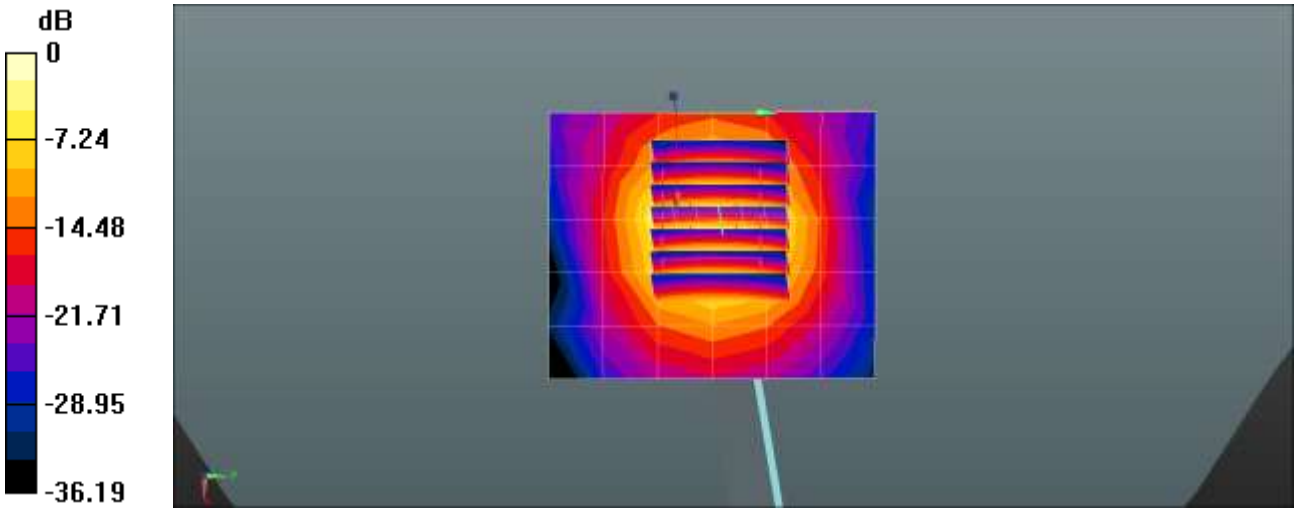
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.095 S/m; $\varepsilon_r$ = 36.406; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3700MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.50 W/kg

**Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.43 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 9.99 W/kg
**SAR(1 g) = 3.48 W/kg; SAR(10 g) = 1.24 W/kg**
Maximum value of SAR (measured) = 7.09 W/kg




0 dB = 7.09 W/kg = 8.51 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.9 ℃** |
| **Test Date:** | **04/08/2024** |
| **Band:** | **NR TDD Band n77 SRS3** |

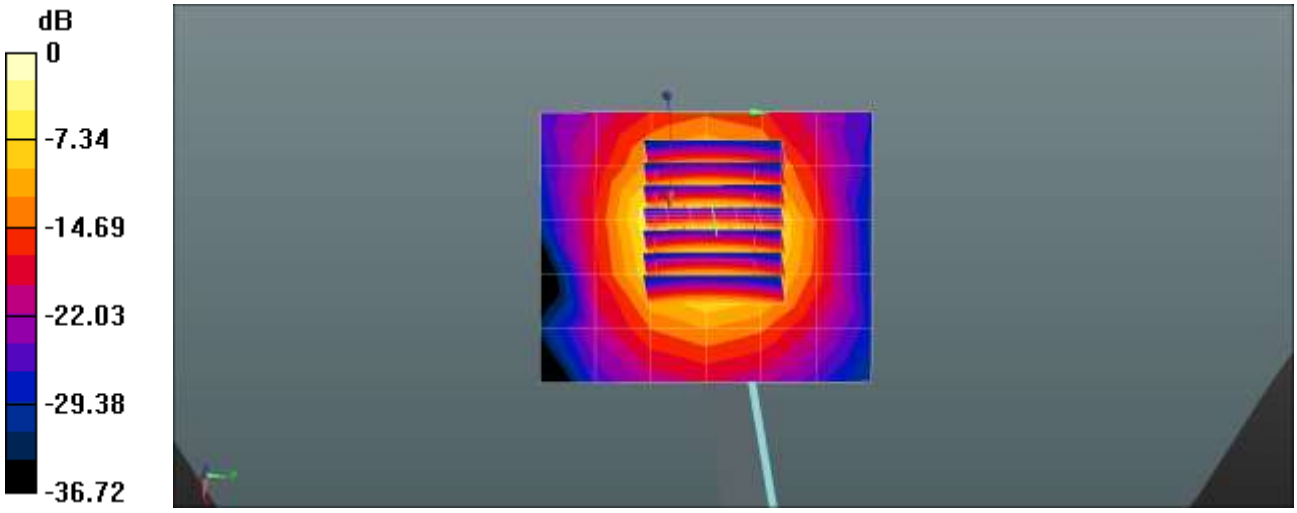
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.071 S/m; $\varepsilon_r$ = 36.863; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3700MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.43 W/kg

**Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.46 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 9.86 W/kg
**SAR(1 g) = 3.44 W/kg; SAR(10 g) = 1.23 W/kg**
Maximum value of SAR (measured) = 7.01 W/kg




0 dB = 7.01 W/kg = 8.46 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/09/2024** |
| **Band:** | **NR TDD Band n77 SRS4** |

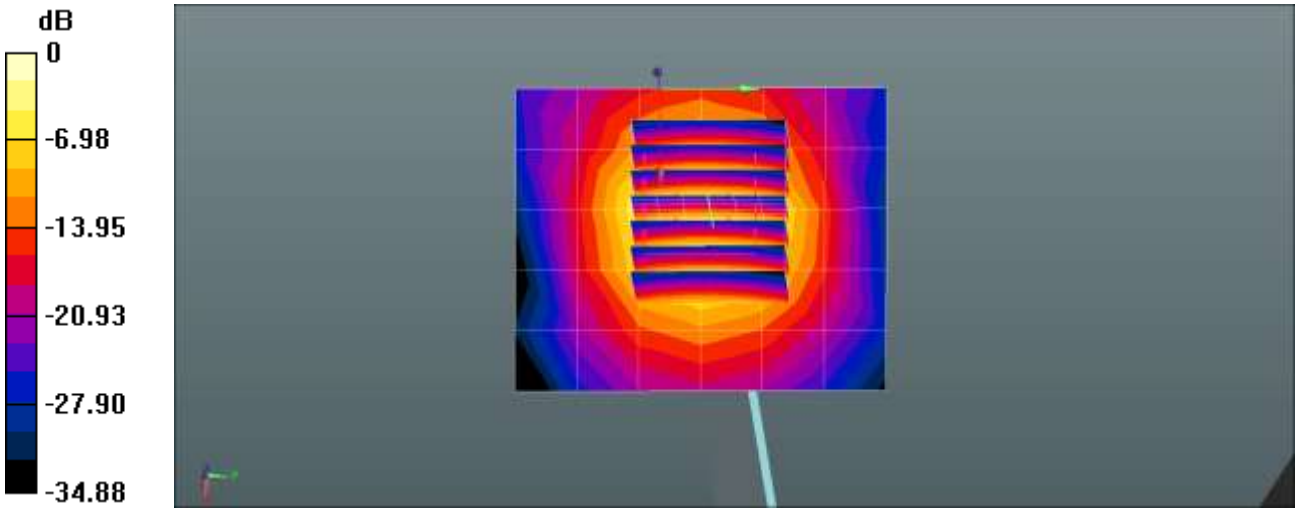
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.069 S/m; $\varepsilon_r$ = 36.864; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3700MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.41 W/kg

**Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.67 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 9.90 W/kg
**SAR(1 g) = 3.45 W/kg; SAR(10 g) = 1.23 W/kg**
Maximum value of SAR (measured) = 7.00 W/kg




0 dB = 7.00 W/kg = 8.45 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

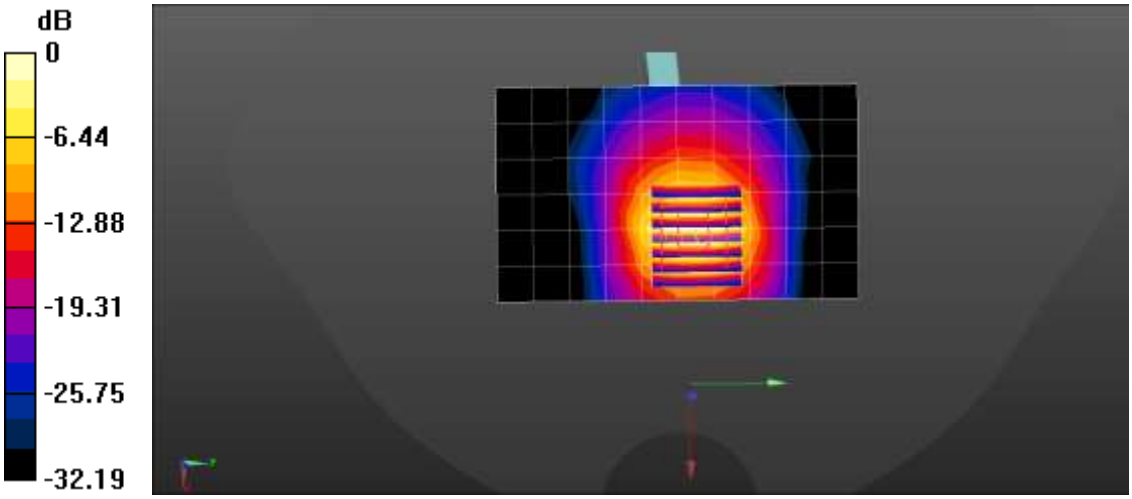
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.5 ℃** |
| **Test Date:** | **05/03/2024** |
| **Band:** | **NR TDD Band n77 DSI3** |

Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.057 S/m; $\varepsilon_r$ = 38.232; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**3700MHz Head Verification/Area Scan (7x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.82 W/kg
**3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 38.42 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 8.84 W/kg
**SAR(1 g) = 3.36 W/kg; SAR(10 g) = 1.26 W/kg**
Maximum value of SAR (measured) = 6.58 W/kg




0 dB = 6.58 W/kg = 8.18 dBW/kg

■ **Verification Data (3 700 ㎒ Head)**

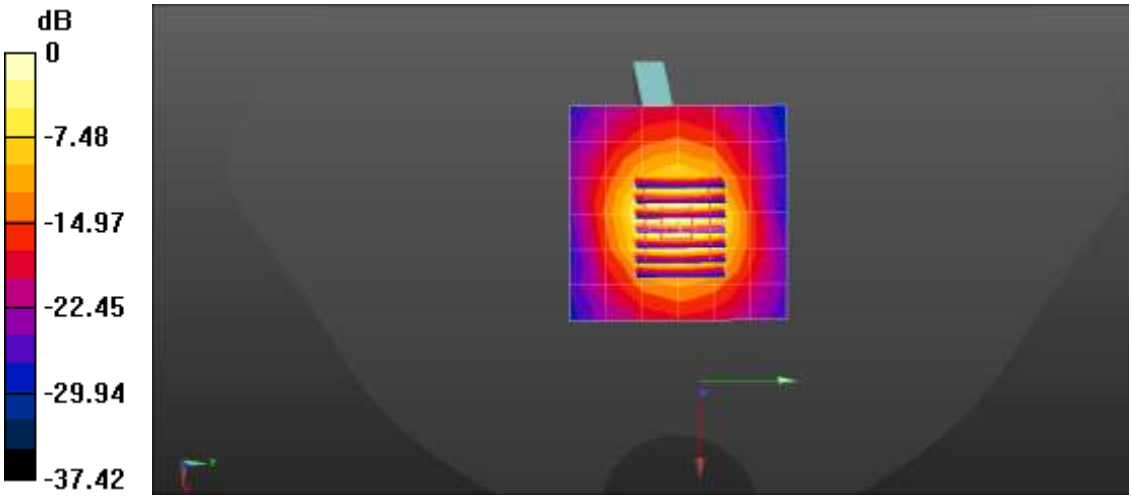
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.6 ℃** |
| **Test Date:** | **05/03/2024** |
| **Band:** | **NR TDD Band n77 DSI3_SRS** |

Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; $\sigma$ = 3.075 S/m; $\varepsilon_r$ = 37.545; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.3, 7.28, 7.84) @ 3700 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V8.0_20171017(Left2); Type: QD 000 P41 AA; Serial: 1932
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**3700MHz Head Verification/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.22 W/kg
**3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.05 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 9.35 W/kg
**SAR(1 g) = 3.23 W/kg; SAR(10 g) = 1.17 W/kg**
Maximum value of SAR (measured) = 6.67 W/kg




0 dB = 6.67 W/kg = 8.24 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/01/2024** |
| **Band:** | **NR TDD Band n77 Close** |

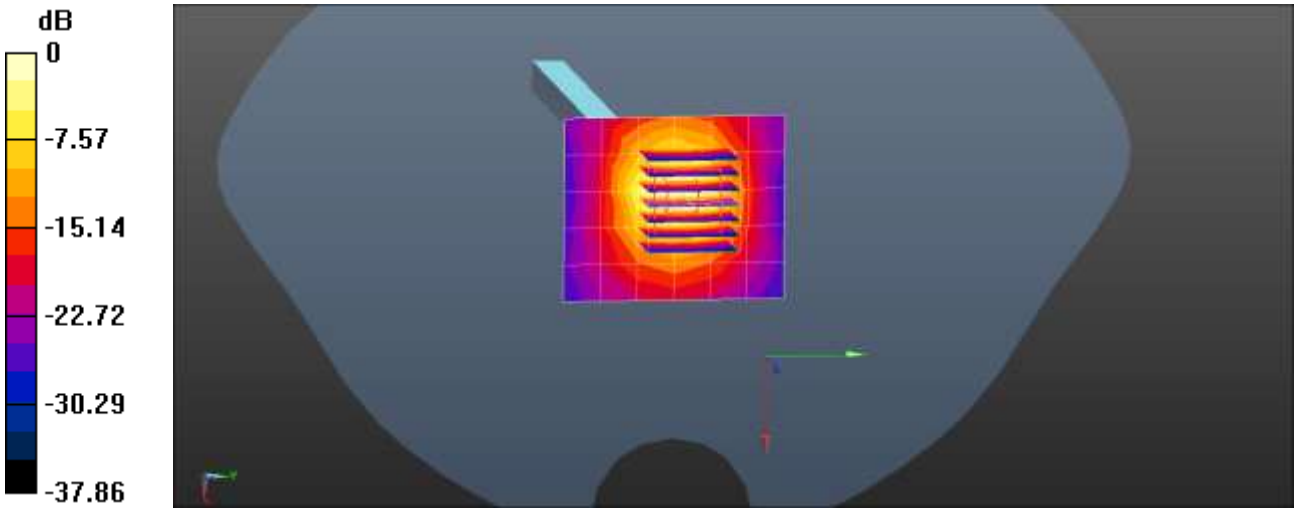
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.336 S/m; $\varepsilon_r$ = 36.852; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3900 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3900MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.31 W/kg

**Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.96 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 10.4 W/kg
**SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.18 W/kg**
Maximum value of SAR (measured) = 7.26 W/kg




0 dB = 7.26 W/kg = 8.61 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **21.9 ℃** |
| **Test Date:** | **03/29/2024** |
| **Band:** | **NR TDD Band n77 Open** |

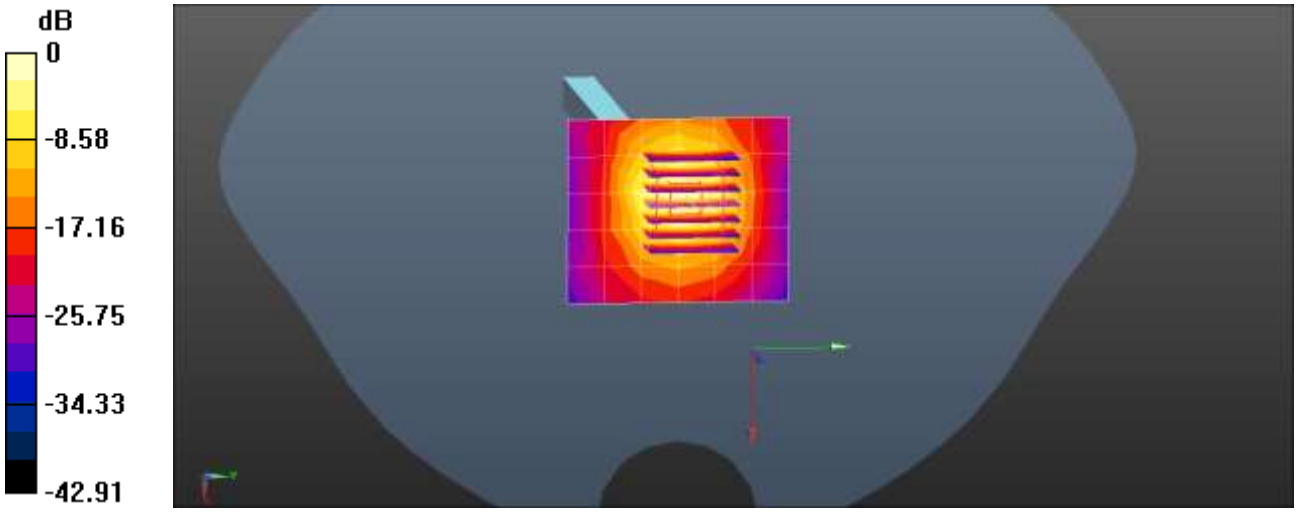
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.28 S/m; $\varepsilon_r$ = 37.806; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3900 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3900MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.13 W/kg

**Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.71 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 10.1 W/kg
**SAR(1 g) = 3.36 W/kg; SAR(10 g) = 1.15 W/kg**
Maximum value of SAR (measured) = 7.10 W/kg




0 dB = 7.10 W/kg = 8.51 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.1 ℃** |
| **Test Date:** | **04/05/2024** |
| **Band:** | **NR TDD Band n77 SRS2** |

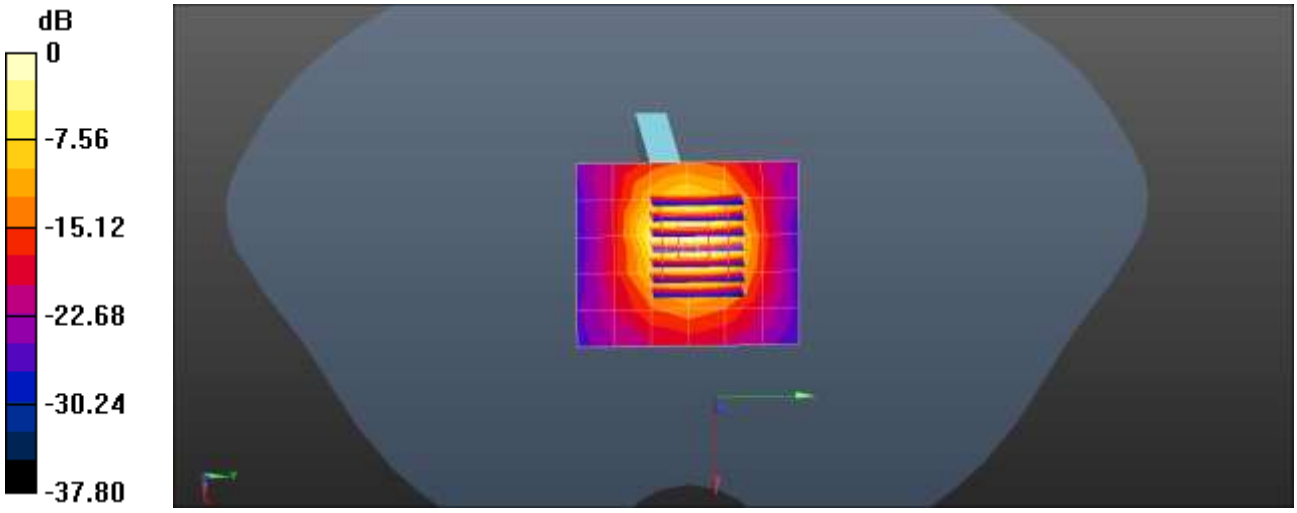
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.359 S/m; $\varepsilon_r$ = 36.331; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3900 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3900MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.34 W/kg

**Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.85 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 10.5 W/kg
**SAR(1 g) = 3.47 W/kg; SAR(10 g) = 1.19 W/kg**
Maximum value of SAR (measured) = 7.38 W/kg




0 dB = 7.38 W/kg = 8.68 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.9 ℃** |
| **Test Date:** | **04/08/2024** |
| **Band:** | **NR TDD Band n77 SRS3** |

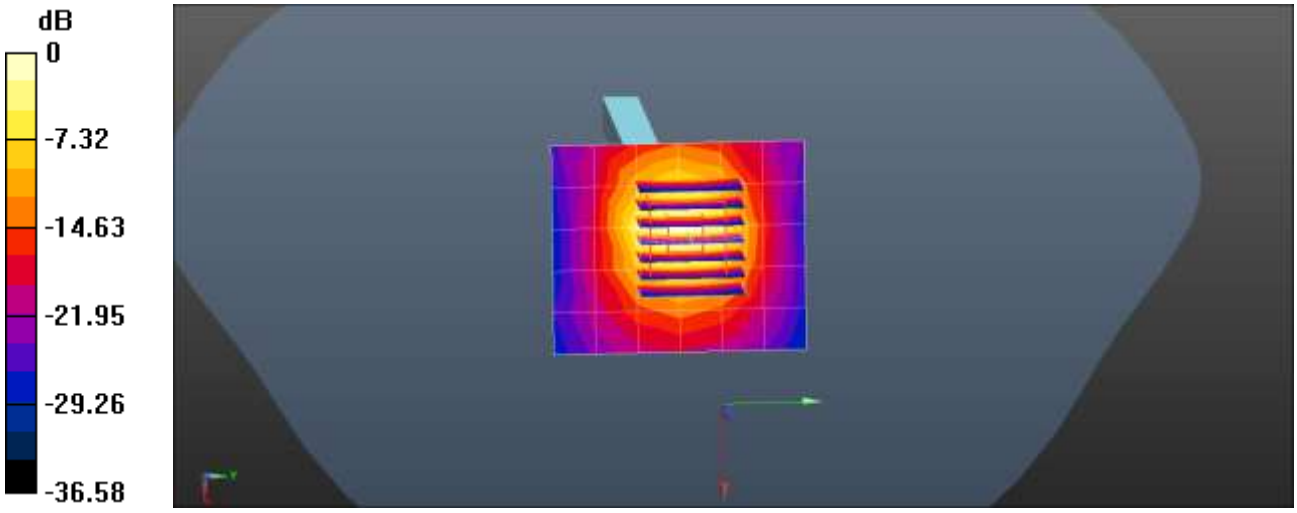
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.33 S/m; $\varepsilon_r$ = 36.793; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3900 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3900MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.26 W/kg

**Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.73 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 10.4 W/kg
**SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.18 W/kg**
Maximum value of SAR (measured) = 7.32 W/kg




0 dB = 7.32 W/kg = 8.65 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **24.5 ℃** |
| **Test Date:** | **04/09/2024** |
| **Band:** | **NR TDD Band n77 SRS4** |

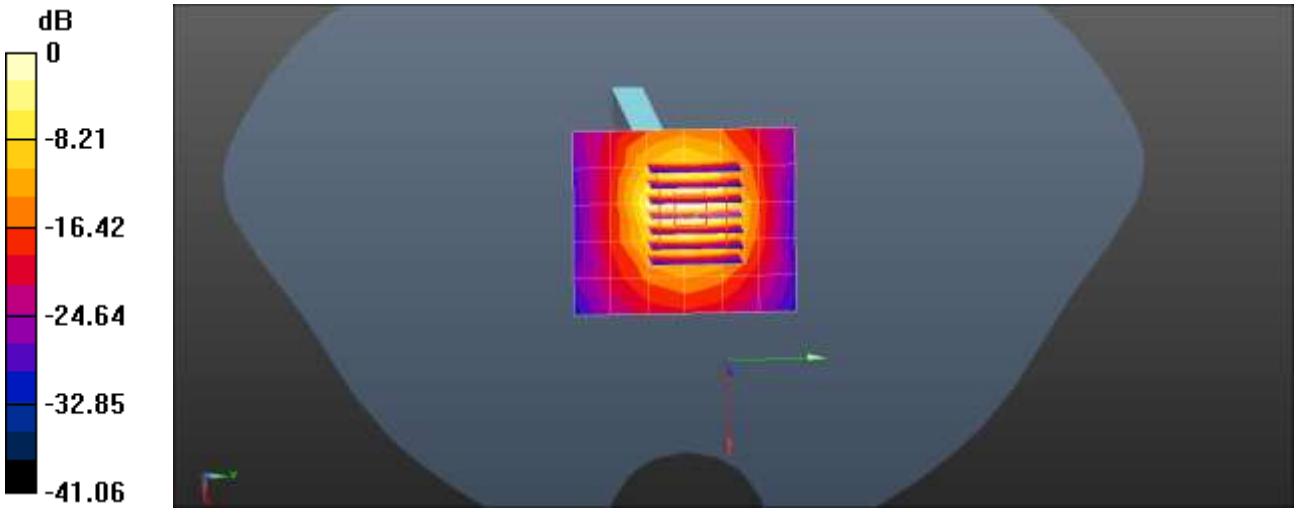
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.329 S/m; $\varepsilon_r$ = 36.808; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3900 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Dipole/3900MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.26 W/kg

**Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 42.85 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 10.3 W/kg
**SAR(1 g) = 3.41 W/kg; SAR(10 g) = 1.17 W/kg**
Maximum value of SAR (measured) = 7.23 W/kg




0 dB = 7.23 W/kg = 8.59 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

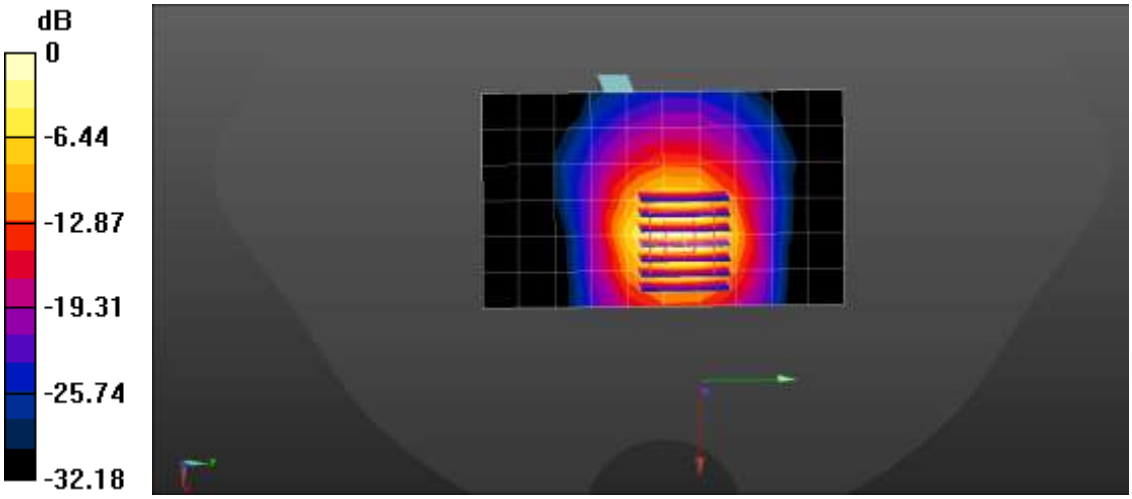
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **23.5 ℃** |
| **Test Date:** | **05/03/2024** |
| **Band:** | **NR TDD Band n77 DSI3** |

Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.199 S/m; $\varepsilon_r$ = 38.016; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.73, 7.22, 7.03) @ 3900 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2024-02-16
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**3700MHz Head Verification/Area Scan (7x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.09 W/kg
**3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 38.51 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 9.23 W/kg
**SAR(1 g) = 3.52 W/kg; SAR(10 g) = 1.32 W/kg**
Maximum value of SAR (measured) = 6.89 W/kg




0 dB = 6.89 W/kg = 8.38 dBW/kg

■ **Verification Data (3 900 ㎒ Head)**

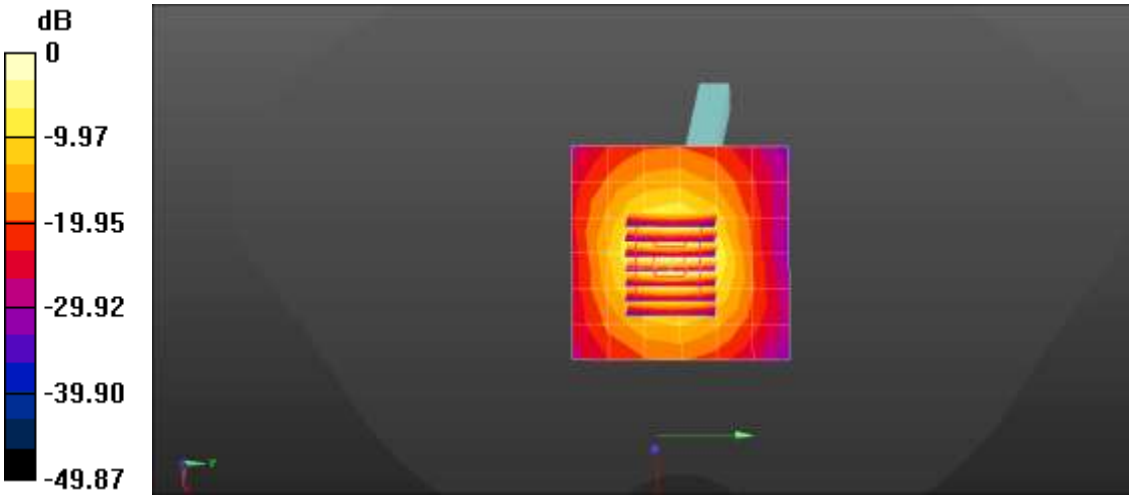
| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **19.6 ℃** |
| **Test Date:** | **05/03/2024** |
| **Band:** | **NR TDD Band n77 DSI3_SRS** |

Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; $\sigma$ = 3.218 S/m; $\varepsilon_r$ = 37.329; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.15, 7.09, 7.7) @ 3900 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: Twin-SAM V8.0_20171017(Left2); Type: QD 000 P41 AA; Serial: 1932
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**3900MHz Head Verification/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.58 W/kg
**3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.44 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 10.1 W/kg
**SAR(1 g) = 3.32 W/kg; SAR(10 g) = 1.15 W/kg**
Maximum value of SAR (measured) = 7.06 W/kg




0 dB = 7.06 W/kg = 8.49 dBW/kg

◆ **Extremity SAR**

■ **Verification Data (13 ㎒ Head)**

| | |
|---|---|
| **Test Laboratory:** | **HCT CO., LTD** |
| **Input Power** | **0.05 W** |
| **Liquid Temp:** | **18.4 ℃** |
| **Test Date:** | **04/04/2024** |
| **Band:** | **NFC** |

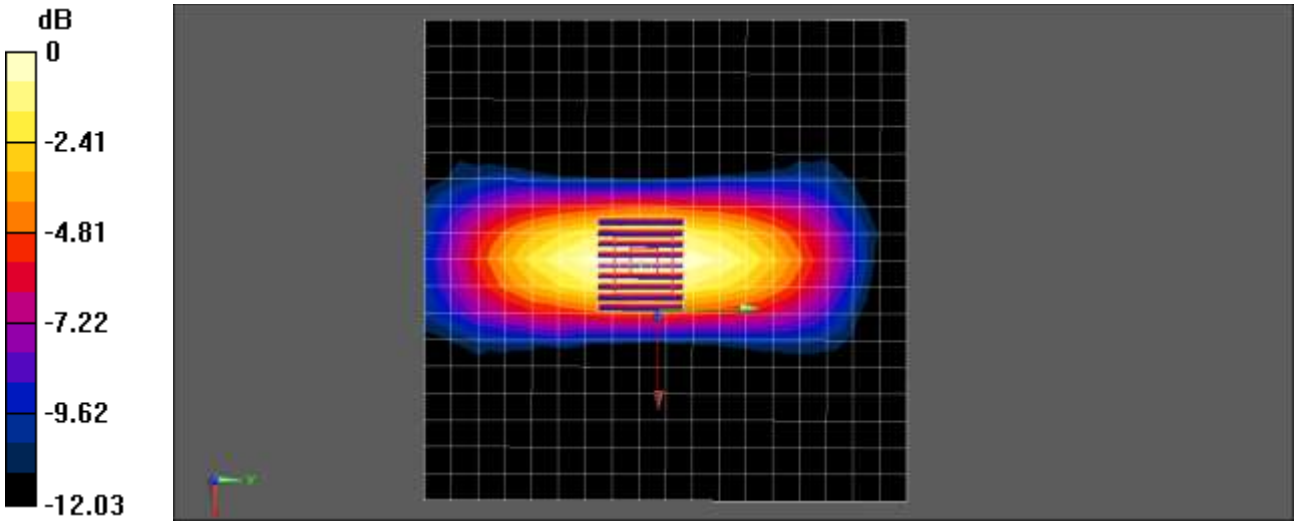
Communication System: UID 0, NFC (0); Frequency: 13 MHz;Duty Cycle: 1:1
Medium parameters used: f = 13 MHz; $\sigma$ = 0.735 S/m; $\varepsilon_r$ = 54.495; $\rho$ = 1000 kg/$m^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.8, 5.8, 5.8) @ 13 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**13MHz Head Verification/Area Scan (19x19x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.0318 W/kg

**13MHz Head Verification/Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 6.554 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0560 W/kg
**SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.017 W/kg**
Maximum value of SAR (measured) = 0.0322 W/kg




0 dB = 0.0322 W/kg = -14.92 dBW/kg

■ **Verification Data (1 800 ㎒ Head)**

**Test Laboratory:** **HCT CO., LTD**
**Input Power** **0.05 W**
**Liquid Temp:** **22.5 ℃**
**Test Date:** **04/15/2024**
**Band:** **LTE FDD Band 66 Ant.A Open**
**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0-- | 1800.0, 0 | 9.17 | 1.38 | 41.2 |

**Hardware Setup**

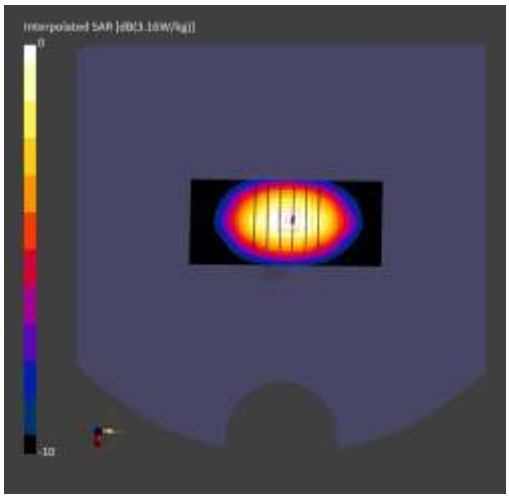
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.76 | 1.73 |
| psSAR10g [W/Kg] | 0.937 | 0.914 |
| Power Drift [dB] | -0.00 | 0.00 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.7 ℃
**Test Date:** 04/24/2024
**Band:** NR FDD Band n66 Ant.A Open

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0-- | 1800.0, 0 | 9.17 | 1.38 | 41.2 |

**Hardware Setup**

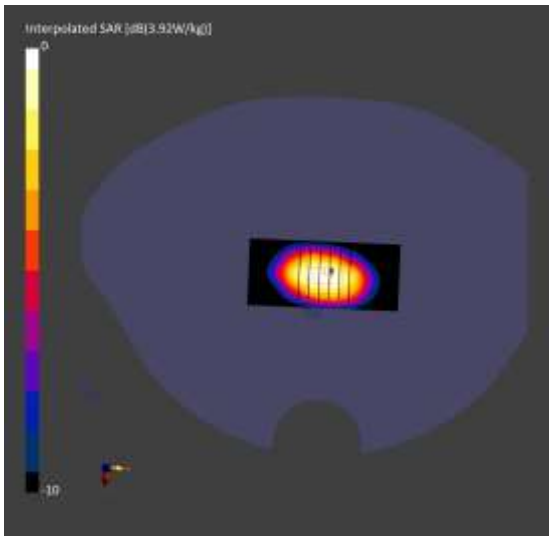
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.06 | 2.06 |
| psSAR10g [W/Kg] | 1.06 | 1.07 |
| Power Drift [dB] | 0.00 | 0.00 |



## ■ Verification Data (1 800 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 22.7 ℃
**Test Date:** 04/27/2024
**Band:** NR FDD Band n66 Ant.I Open

**Measurement Report for Device, , , CW, Channel 0 (1800.0 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, HSL | , | | CW, 0-- | 1800.0, 0 | 9.17 | 1.38 | 41.3 |

**Hardware Setup**

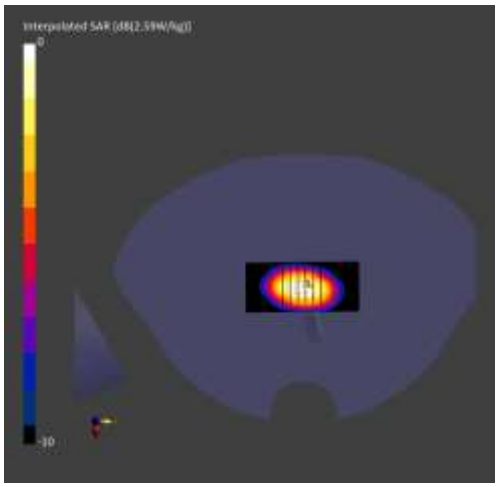
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 2.06 | 2.06 |
| psSAR10g [W/Kg] | 1.06 | 1.07 |
| Power Drift [dB] | 0.00 | 0.02 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 22.5 ℃
**Test Date:** 04/10/2024
**Band:** LTE FDD Band 25 Ant.A Open

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0- - | 1900.0, 0 | 8.81 | 1.37 | 39.0 |

**Hardware Setup**

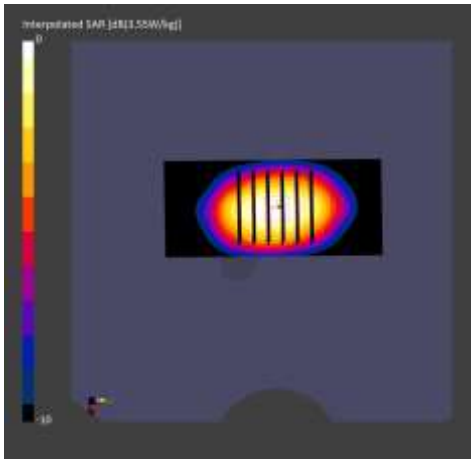
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.95 | 1.91 |
| psSAR10g [W/Kg] | 1.01 | 0.983 |
| Power Drift [dB] | 0.01 | 0.02 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 23.7 ℃
**Test Date:** 04/21/2024
**Band:** NR FDD Band n25 Ant.A Open

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0-- | 1900.0, 0 | 8.81 | 1.38 | 39.0 |

**Hardware Setup**

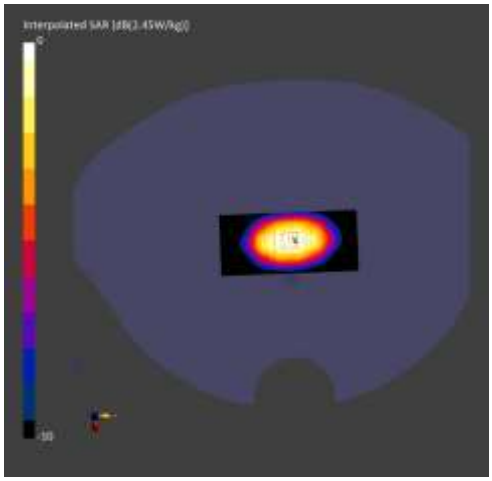
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.94 | 1.95 |
| psSAR10g [W/Kg] | 1.00 | 1.00 |
| Power Drift [dB] | 0.01 | 0.00 |



## ■ Verification Data (1 900 ㎒ Head)

**Test Laboratory:** HCT CO., LTD
**Input Power** 0.05 W
**Liquid Temp:** 21.8 ℃
**Test Date:** 04/30/2024
**Band:** NR FDD Band n25 Ant.I Open

**Measurement Report for Device, , , CW, Channel 0 (1900.0 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, HSL | , | | CW, 0-- | 1900.0, 0 | 8.81 | 1.39 | 39.0 |

**Hardware Setup**

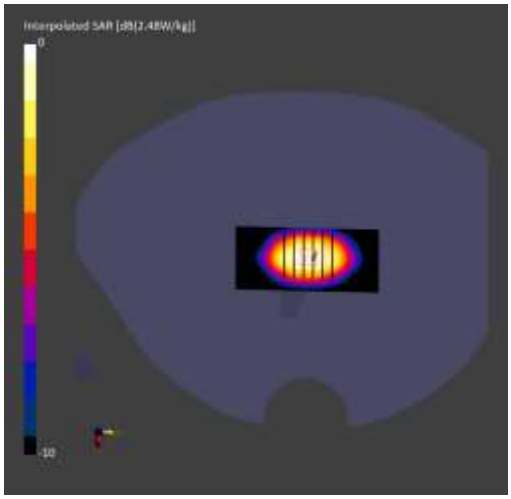
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|
| Twin-SAM V8.0 (30deg probe tilt) - 2050 | EX3DV4 - SN3968, 2023-09-27 | DAE4 Sn1750, 2023-09-19 |

**Scans Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR1g [W/Kg] | 1.97 | 1.96 |
| psSAR10g [W/Kg] | 1.01 | 1.01 |
| Power Drift [dB] | 0.00 | -0.01 |



## 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 bacteriacide 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 (% 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 | 13 | 1016 | 2023-09-25 | 52.5 | 0.77 | PASS | PASS | PASS | N/A | N/A | N/A |
| 19 | 7702 | EX3DV4 | Head | 750 | 1014 | 2024-01-23 | 41.7 | 0.89 | PASS | PASS | PASS | N/A | N/A | N/A |
| 17 | 7681 | EX3DV4 | Head | 835 | 4d165 | 2023-11-28 | 41.6 | 0.91 | PASS | PASS | PASS | GMSK | PASS | N/A |
| 17 | 7681 | EX3DV4 | Head | 835 | 4d165 | 2023-11-28 | 41.6 | 0.91 | PASS | PASS | PASS | N/A | N/A | N/A |
| 19 | 7702 | EX3DV4 | Head | 835 | 4d165 | 2024-01-23 | 41.6 | 0.90 | PASS | PASS | PASS | N/A | N/A | N/A |
| 13 | 3968 | EX3DV4 | Head | 1750 | 2d015 | 2023-09-28 | 40.2 | 1.49 | PASS | PASS | PASS | N/A | N/A | N/A |
| 17 | 7681 | EX3DV4 | Head | 1750 | 2d015 | 2023-11-28 | 40.2 | 1.40 | PASS | PASS | PASS | N/A | N/A | N/A |
| 13 | 3968 | EX3DV4 | Head | 1900 | 5d032 | 2024-01-19 | 40.1 | 1.42 | PASS | PASS | PASS | N/A | N/A | N/A |
| 17 | 7681 | EX3DV4 | Head | 1900 | 5d032 | 2024-01-20 | 40.2 | 1.41 | PASS | PASS | PASS | GMSK | PASS | N/A |
| 17 | 7681 | EX3DV4 | Head | 1900 | 5d032 | 2024-01-20 | 40.2 | 1.41 | PASS | PASS | PASS | N/A | N/A | N/A |
| 8 | 7654 | EX3DV4 | Head | 2450 | 1049 | 2023-05-30 | 39.3 | 1.84 | PASS | PASS | PASS | OFDM | N/A | PASS |
| 2 | 3797 | EX3DV4 | Head | 2600 | 1106 | 2024-01-25 | 39 | 1.95 | PASS | PASS | PASS | TDD | PASS | N/A |
| 3 | 3903 | EX3DV4 | Head | 2600 | 1106 | 2023-07-21 | 39.1 | 1.95 | PASS | PASS | PASS | TDD | PASS | NA |
| 14 | 7655 | EX3DV4 | Head | 2600 | 1106 | 2023-05-29 | 39.1 | 1.94 | PASS | PASS | PASS | TDD | PASS | NA |
| 14 | 7655 | EX3DV4 | Head | 3500 | 1132 | 2024-01-26 | 37.9 | 2.92 | PASS | PASS | PASS | TDD | PASS | NA |
| 14 | 7655 | EX3DV4 | Head | 3700 | 1105 | 2023-11-27 | 37.5 | 3.13 | PASS | PASS | PASS | TDD | PASS | NA |
| 14 | 7655 | EX3DV4 | Head | 3900 | 1019 | 2023-11-27 | 37.2 | 3.31 | PASS | PASS | PASS | TDD | PASS | NA |
| 8 | 7654 | EX3DV4 | Head | 3500 | 1132 | 2024-01-27 | 37.9 | 2.92 | PASS | PASS | PASS | TDD | PASS | NA |
| 8 | 7654 | EX3DV4 | Head | 3700 | 1105 | 2023-11-28 | 37.5 | 3.13 | PASS | PASS | PASS | TDD | PASS | NA |
| 8 | 7654 | EX3DV4 | Head | 3900 | 1019 | 2023-11-28 | 37.2 | 3.31 | PASS | PASS | PASS | TDD | PASS | NA |
| 21 | 7732 | EX3DV4 | Head | 5250 | 1317 | 2023-10-08 | 36.0 | 4.72 | PASS | PASS | PASS | TDD | PASS | NA |
| 21 | 7732 | EX3DV4 | Head | 5600 | 1317 | 2023-10-08 | 35.6 | 5.08 | PASS | PASS | PASS | TDD | PASS | NA |
| 21 | 7732 | EX3DV4 | Head | 5750 | 1317 | 2023-10-08 | 35.4 | 5.25 | PASS | PASS | PASS | TDD | PASS | NA |
| 21 | 7732 | EX3DV4 | Head | 5800 | 1317 | 2023-10-08 | 35.2 | 5.30 | PASS | PASS | PASS | TDD | PASS | NA |

SAR System Validation Summary 1g

**Note :**
All measurement were 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.