

Appendix B. – SAR Test Plots

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/05/2022
Plot No.: 1

Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.223$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.98, 5.98, 5.98) @ 836.6 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

GSM850 2TX Head Right Touch 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.471 W/kg

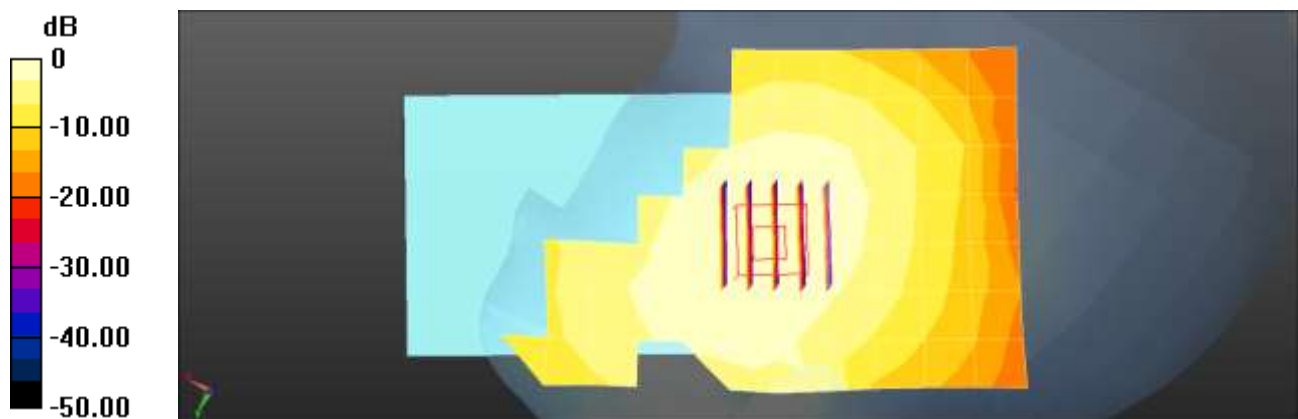
GSM850 2TX Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.264 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



0 dB = 0.471 W/kg = -3.27 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/06/2022
Plot No.: 2

Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz; Duty Cycle: 1:4.14954
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 41.369$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

GSM1900 Head Left Touch 2Tx 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.326 W/kg

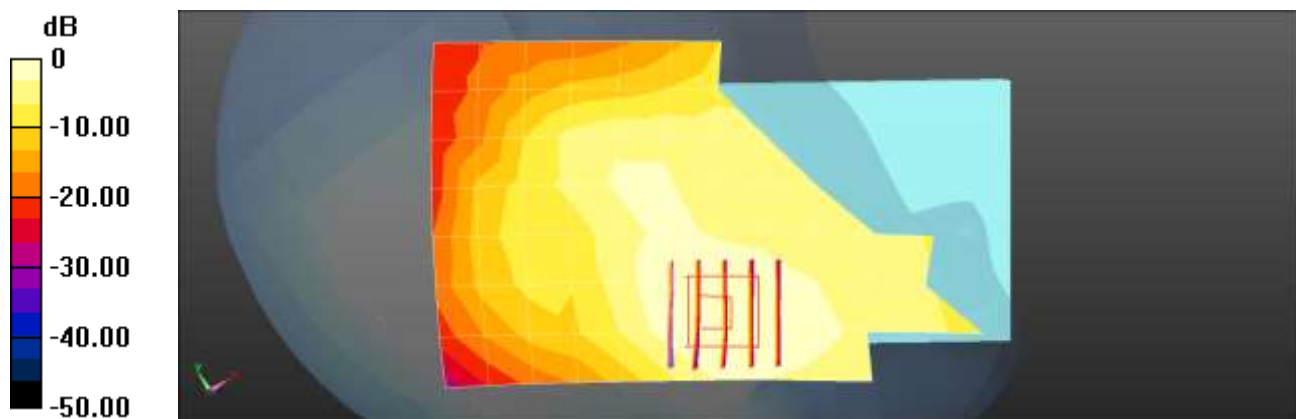
GSM1900 Head Left Touch 2Tx 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.135 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.300 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.352 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 °C
Ambient Temperature: 19.2 °C
Test Date: 03/29/2022
Plot No.: 3

Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 Ax; Serial: 2014
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

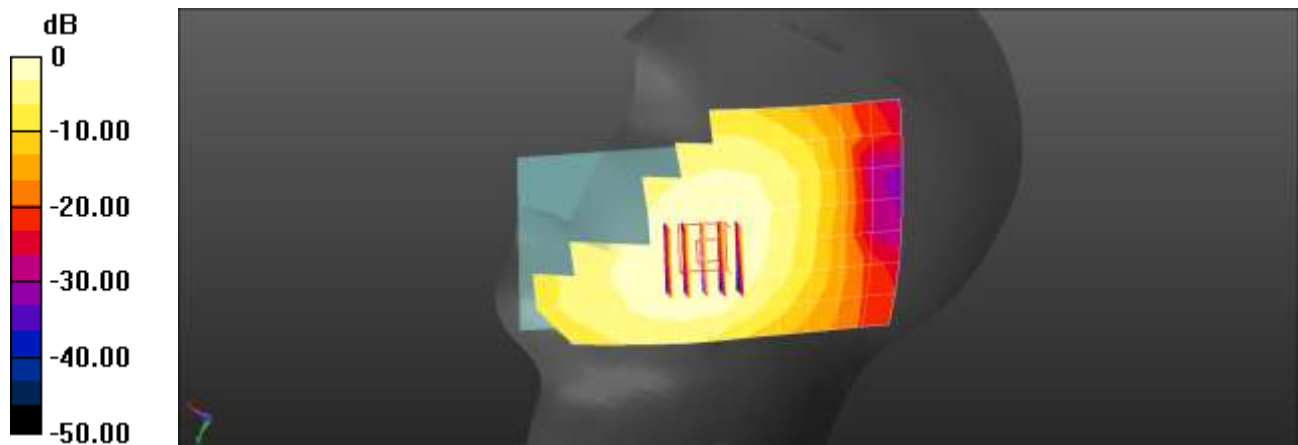
UMTS Band 5 Head Right Touch 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.380 W/kg

UMTS Band 5 Head Right Touch 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.905 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.380 W/kg = -4.20 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/07/2022
Plot No.: 4

Communication System: UID 0, WCDMA 1700 (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.314$ S/m; $\epsilon_r = 41.591$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1732.4 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

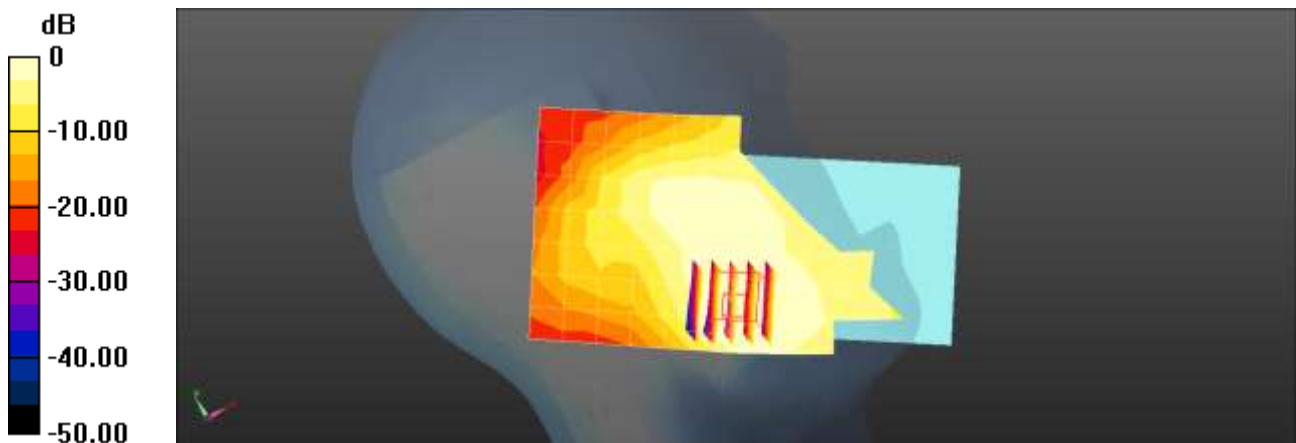
UMTS Band 4 Head Left Touch 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.231 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.293 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.231 W/kg = -6.36 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/06/2022
Plot No.: 5

Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 41.376$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

UMTS Band 2 Head Left Touch 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.417 W/kg

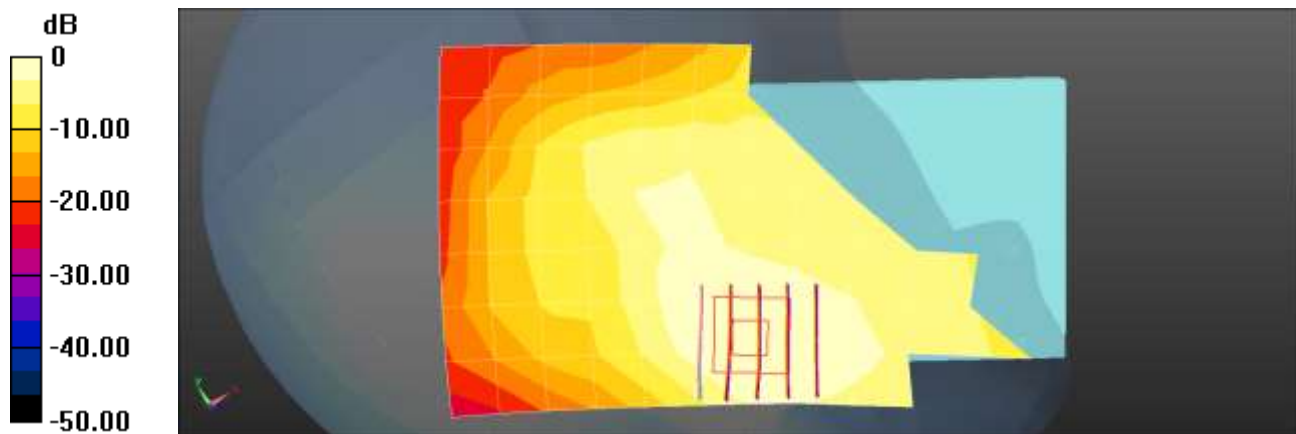
UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.220 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.238 W/kg

Maximum value of SAR (measured) = 0.445 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/07/2022
Plot No.: 6

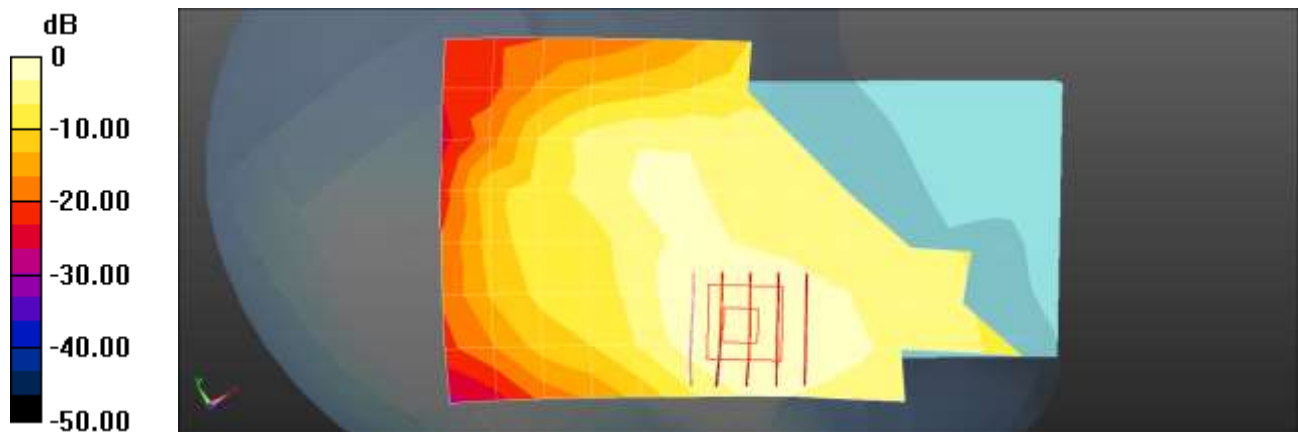
Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.398 \text{ S/m}$; $\epsilon_r = 41.37$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 2 Head Left Touch QPSK 20MHz 1RB 49offset 18900ch/Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.426 W/kg

LTE Band 2 Head Left Touch QPSK 20MHz 1RB 49offset 18900ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.782 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.590 W/kg
SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.242 W/kg
Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8 °C
Ambient Temperature: 19.9 °C
Test Date: 03/31/2022
Plot No.: 7

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.851$ S/m; $\epsilon_r = 43.233$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY Configuration:

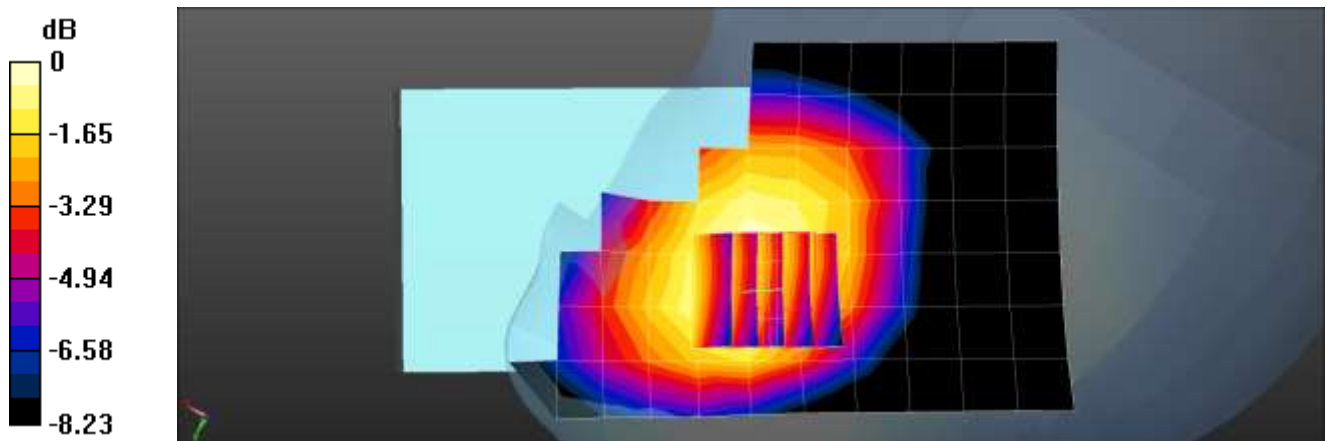
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 707.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 12 Head Right Touch QPSK 10MHz 1RB 24offset 23095ch/Area Scan (8x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.239 W/kg

LTE Band 12 Head Right Touch QPSK 10MHz 1RB 24offset 23095ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.887 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.258 W/kg
SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.169 W/kg
Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg = -6.20 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6 °C
Ambient Temperature: 19.7 °C
Test Date: 04/01/2022
Plot No.: 8

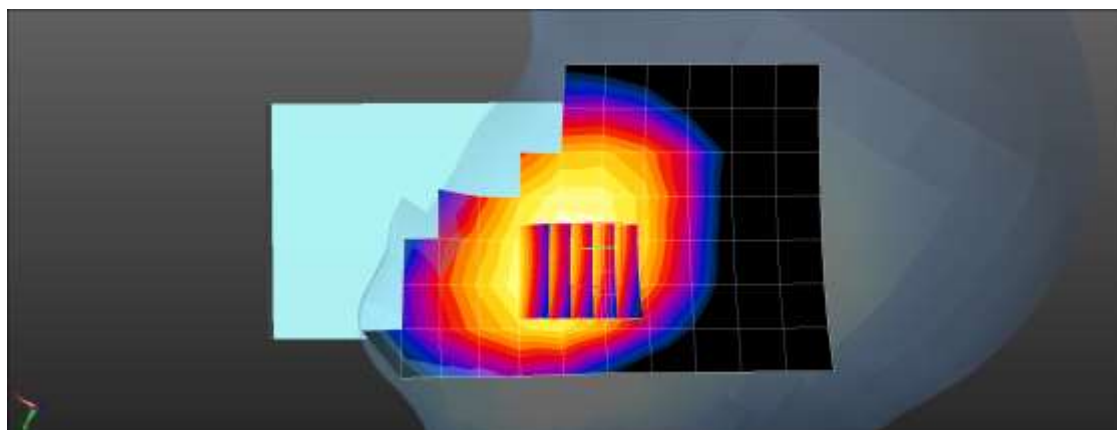
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 40.403$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 831.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 26 Head Right Touch QPSK 15MHz 1RB 0offset 26865ch/Area Scan (8x14x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.307 W/kg

LTE Band 26 Head Right Touch QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.426 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.344 W/kg
SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.210 W/kg
Maximum value of SAR (measured) = 0.313 W/kg



0 dB = 0.313 W/kg = -5.04 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.4 °C
Ambient Temperature: 21.5 °C
Test Date: 04/11/2022
Plot No.: 9

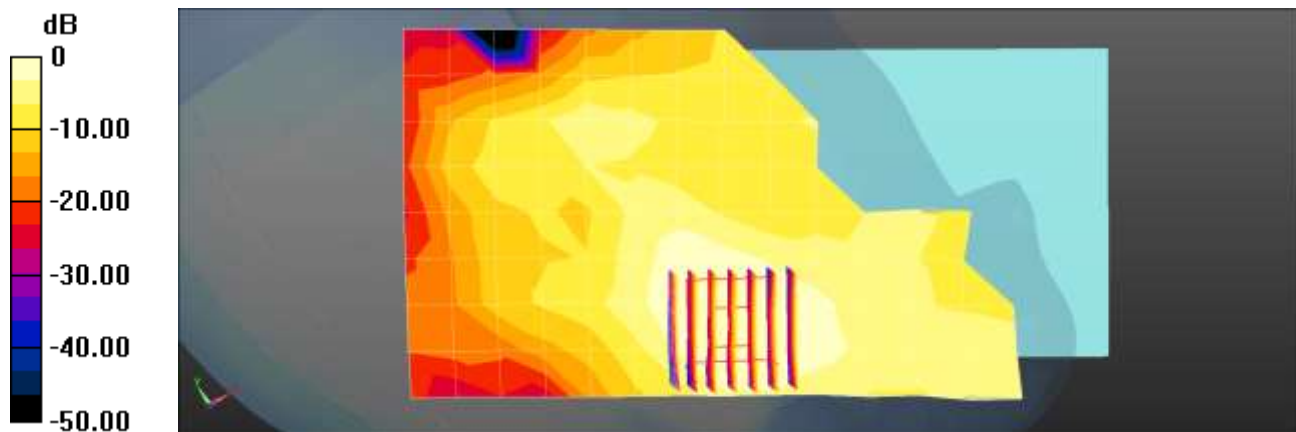
Communication System: UID 0, LTE Band 41 (FCC) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.58052
Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.956$ S/m; $\epsilon_r = 37.828$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2593 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 41 Head Left Touch QPSK 20MHz 1RB 49offset 40620ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.170 W/kg

LTE Band 41 Head Left Touch QPSK 20MHz 1RB 49offset 40620ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.314 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.277 W/kg
SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.088 W/kg
Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.170 W/kg = -7.70 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.3 °C
Ambient Temperature: 21.4 °C
Test Date: 04/12/2022
Plot No.: 10

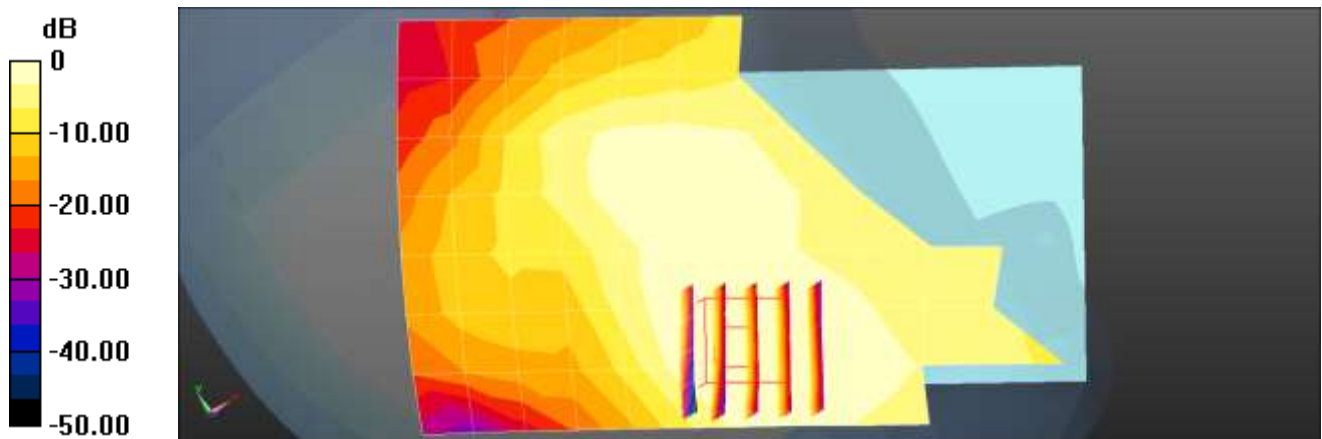
Communication System: UID 0, LTE Band 66(20MHz FCC) (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.364 \text{ S/m}$; $\epsilon_r = 41.535$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1745 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 66 Head Left Touch QPSK 20MHz 1RB 49offset 132322ch/Area Scan (8x14x1): Measurement
grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.385 W/kg

LTE Band 66 Head Left Touch QPSK 20MHz 1RB 49offset 132322ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.197 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.497 W/kg
SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.224 W/kg
Maximum value of SAR (measured) = 0.391 W/kg



0 dB = 0.385 W/kg = -4.15 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 18.9 °C
Ambient Temperature: 19.0 °C
Test Date: 04/01/2022
Plot No.: 11

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 39.198$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2462 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11b Head Right Touch 1Mbps 11ch/Area Scan (10x17x1): Interpolated grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.102 W/kg

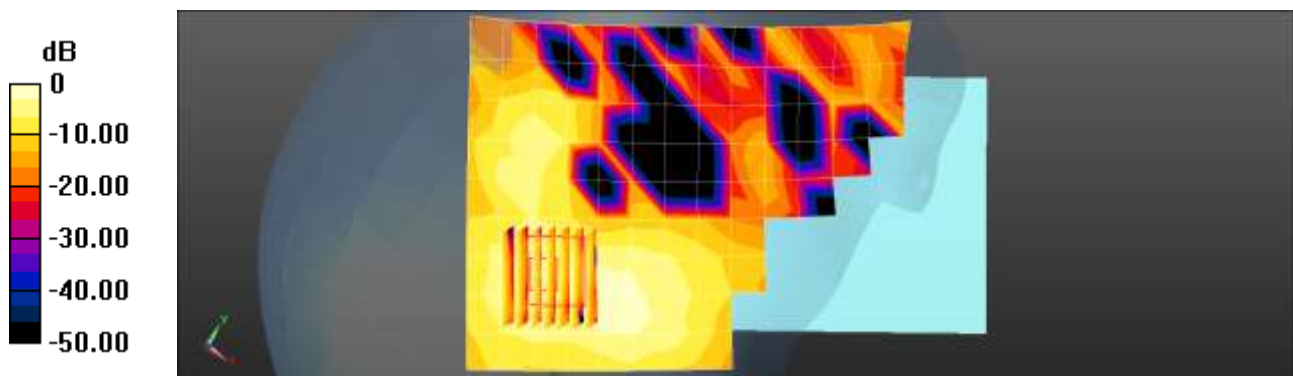
802.11b Head Right Touch 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.672 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.0999 W/kg



0 dB = 0.102 W/kg = -9.91 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5 °C
Ambient Temperature: 20.6 °C
Test Date: 04/14/2022
Plot No.: 12

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5530 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5530$ MHz; $\sigma = 4.888$ S/m; $\epsilon_r = 36.465$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.57, 4.57, 4.57) @ 5530 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11ac80 Head Right Touch MCS0 106ch/Area Scan (12x21x1): Interpolated grid: dx=10mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.182 W/kg

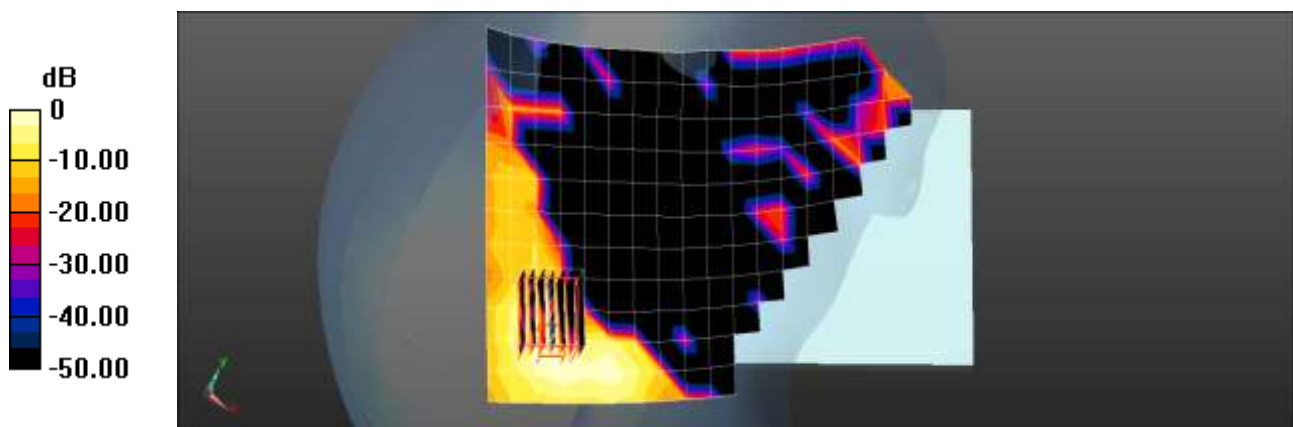
802.11ac80 Head Right Touch MCS0 106ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.379 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.255 W/kg



0 dB = 0.182 W/kg = -7.40 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1 °C
Ambient Temperature: 21.2 °C
Test Date: 04/18/2022
Plot No.: 13

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.307
Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 39.296$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2480 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bluetooth Head Right Touch DH5 78ch/Area Scan (10x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 0.0313 W/kg

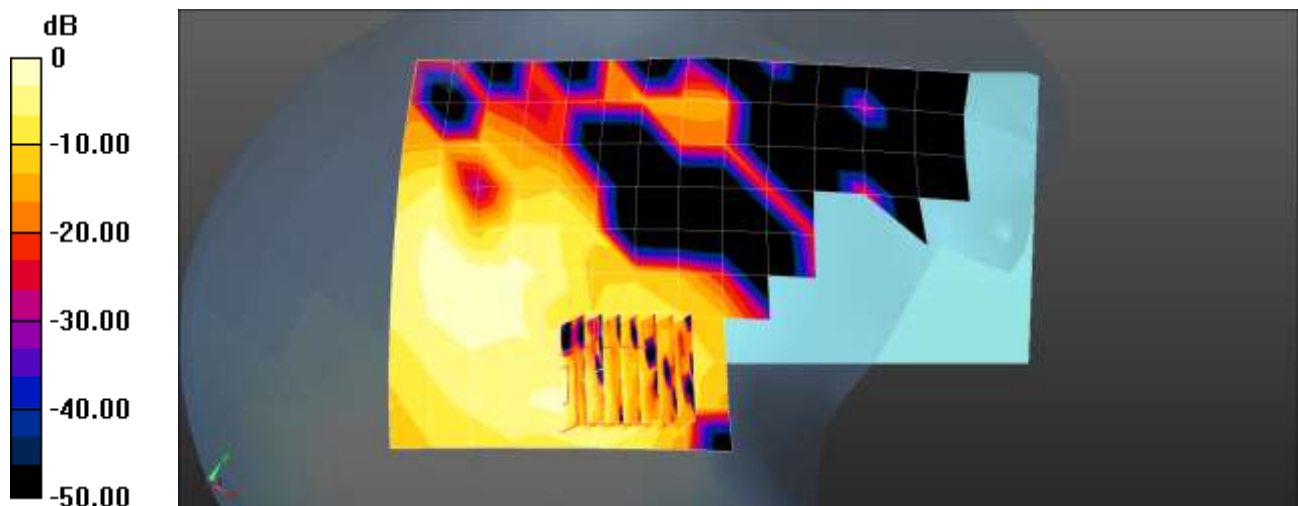
Bluetooth Head Right Touch DH5 78ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.317 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0380 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00542 W/kg

Maximum value of SAR (measured) = 0.0256 W/kg



0 dB = 0.0313 W/kg = -15.04 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/05/2022
Plot No.: 15

Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.223$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.98, 5.98, 5.98) @ 836.6 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

GSM850 2Tx BodyWorn Rear 190ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.409 W/kg

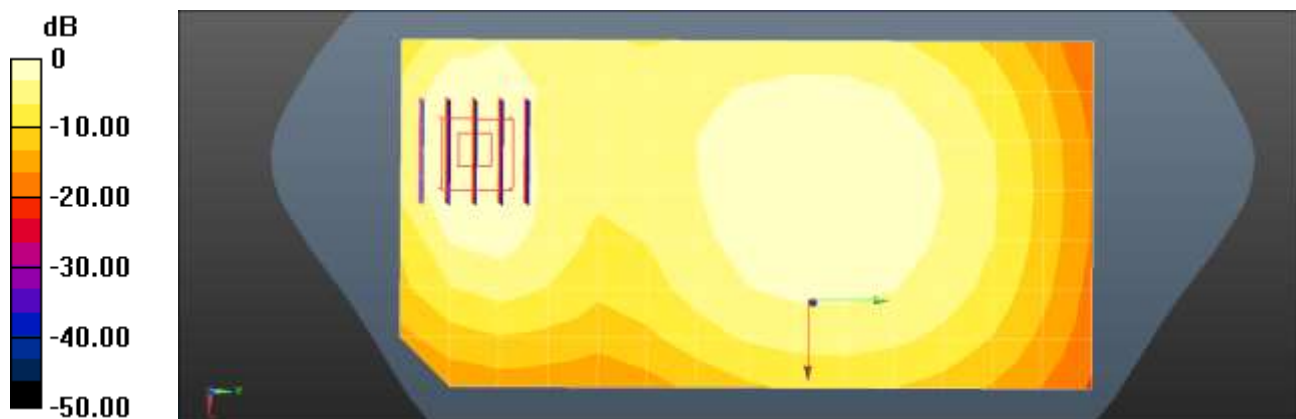
GSM850 2Tx BodyWorn Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.636 W/kg

SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.468 W/kg



0 dB = 0.409 W/kg = -3.88 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/06/2022
Plot No.: 15

Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz; Duty Cycle: 1:4.14954
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 41.369$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

GSM1900 2Tx Bodyworn Front 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.257 W/kg

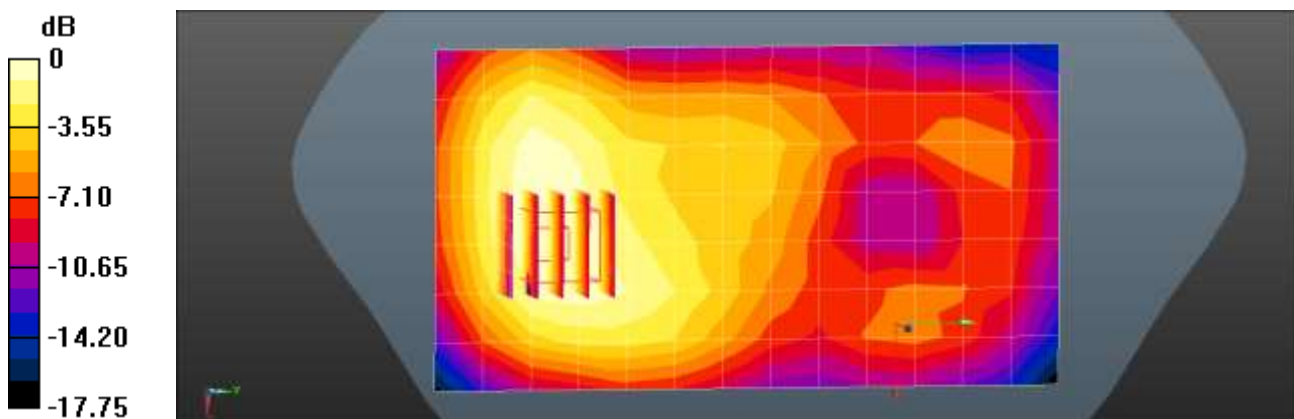
GSM1900 2Tx Bodyworn Front 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.931 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/06/2022
Plot No.: 16

Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 41.376$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

UMTS Band 2 Bodyworn Front 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.360 W/kg

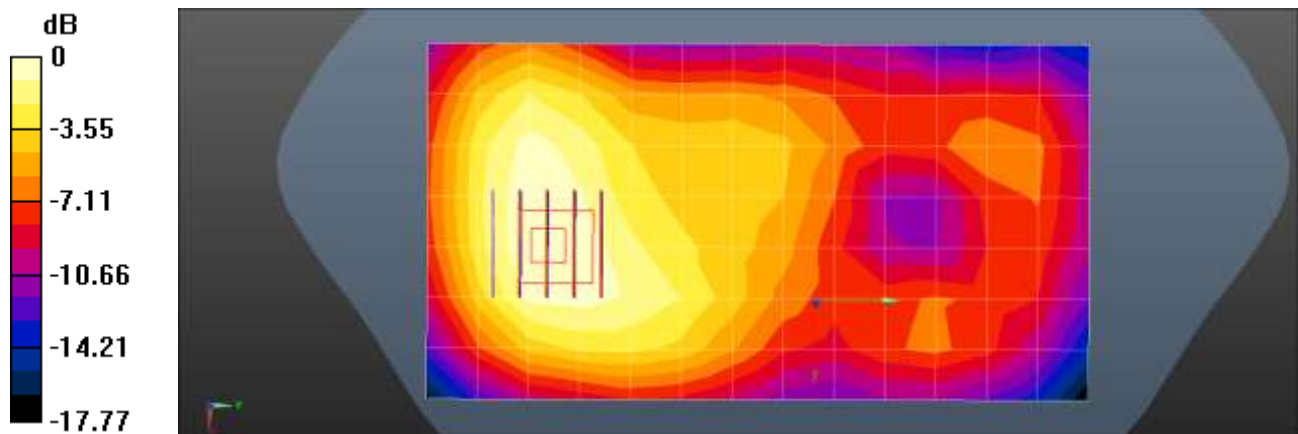
UMTS Band 2 Bodyworn Front 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.177 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.502 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 0.374 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/07/2022
Plot No.: 17

Communication System: UID 0, WCDMA 1700 (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.314$ S/m; $\epsilon_r = 41.591$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1732.4 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

UMTS Band 4 Bodyworn Rear 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.294 W/kg

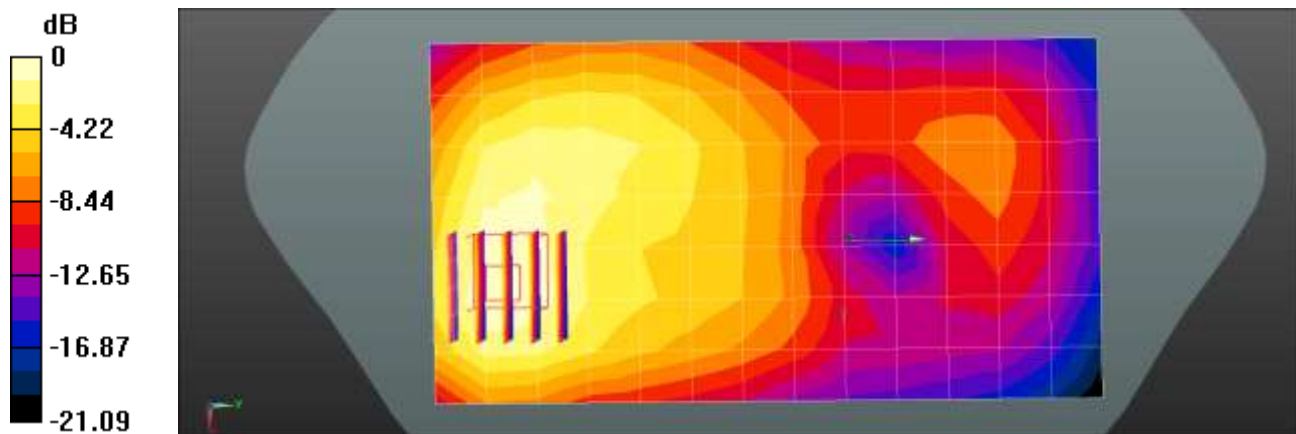
UMTS Band 4 Bodyworn Rear 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.907 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.294 W/kg = -5.32 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 °C
Ambient Temperature: 19.2 °C
Test Date: 03/29/2022
Plot No.: 18

Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

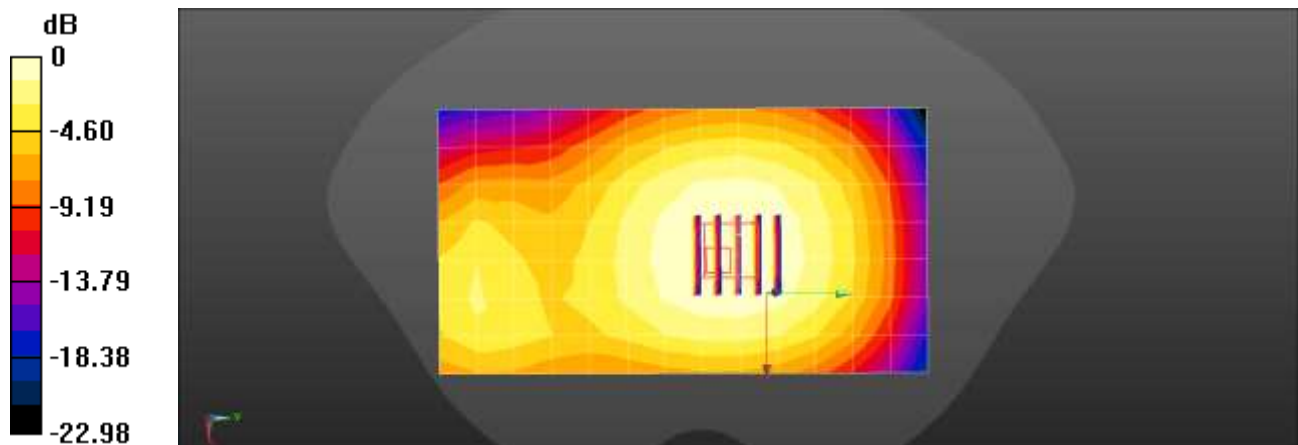
- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 Ax; Serial: 2014
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 5 BodyWorn Front 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.397 W/kg

UMTS Band 5 BodyWorn Front 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.29 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.435 W/kg

SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.246 W/kg
Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/07/2022
Plot No.: 19

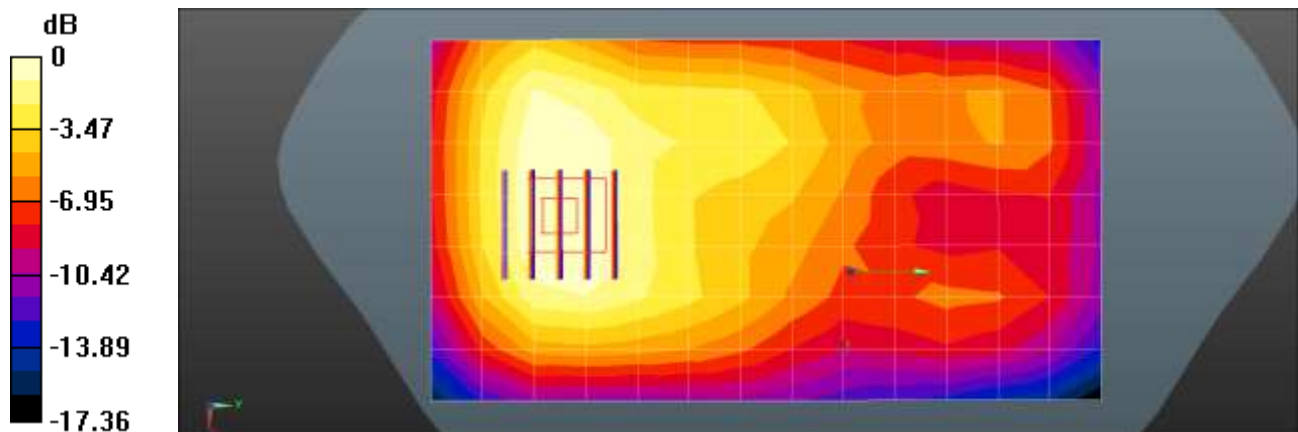
Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 41.37$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 2 BodyWorn Front QPSK 20MHz 1RB 49offset 18900ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.527 W/kg

LTE Band 2 BodyWorn Front QPSK 20MHz 1RB 49offset 18900ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.34 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.764 W/kg
SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.315 W/kg
Maximum value of SAR (measured) = 0.580 W/kg



0 dB = 0.527 W/kg = -2.78 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8 °C
Ambient Temperature: 19.9 °C
Test Date: 03/31/2022
Plot No.: 20

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.851$ S/m; $\epsilon_r = 43.233$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

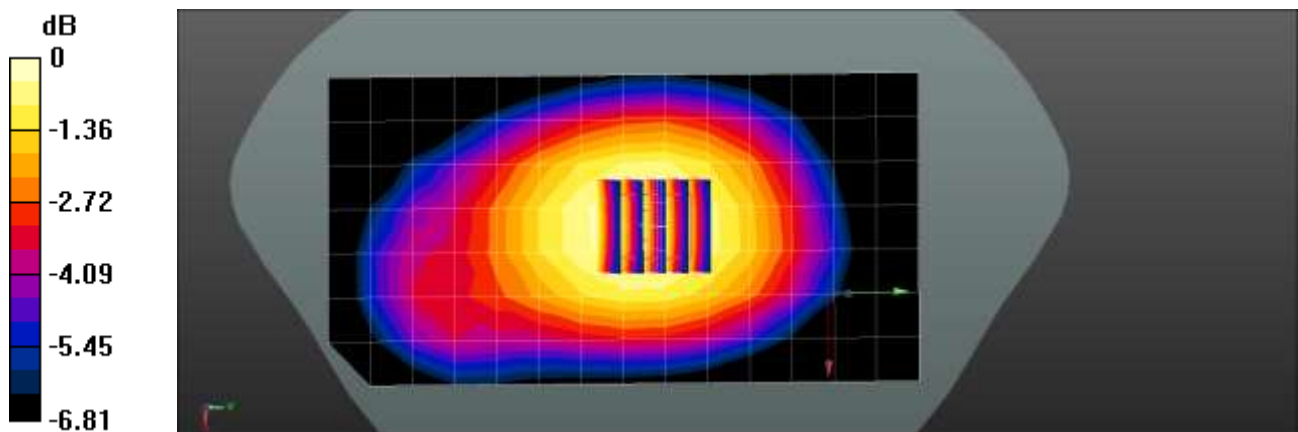
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 707.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 12 Head BodyWorn Front QPSK 10MHz 1RB 24offset 23095ch/Area Scan (8x15x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.289 W/kg

LTE Band 12 Head BodyWorn Front QPSK 10MHz 1RB 24offset 23095ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.37 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.318 W/kg
SAR(1 g) = 0.254 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6 °C
Ambient Temperature: 19.7 °C
Test Date: 04/01/2022
Plot No.: 21

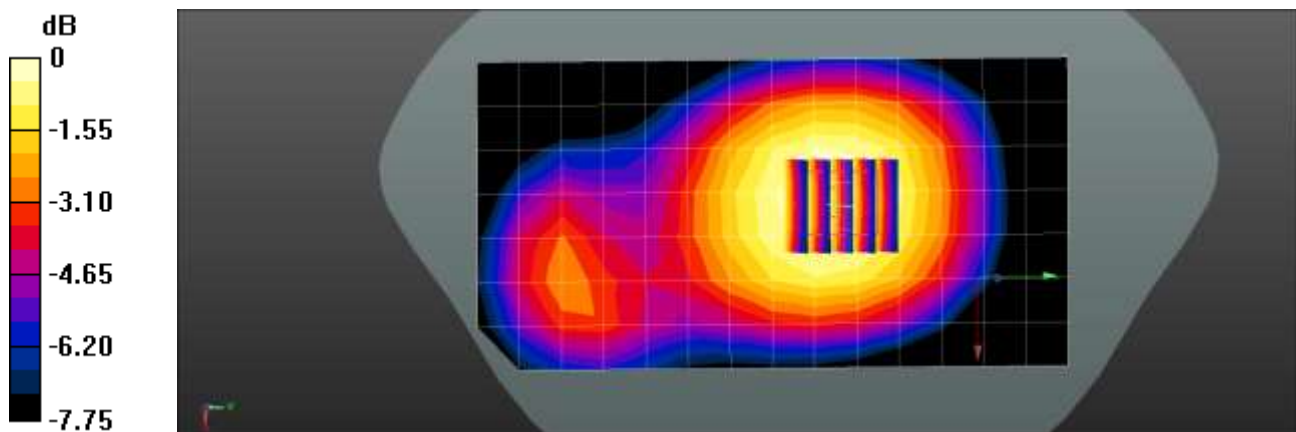
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 40.403$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 831.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 26 BodyWorn Front QPSK 15MHz 1RB 0offset 26865ch/Area Scan (8x15x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.368 W/kg

LTE Band 26 BodyWorn Front QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.57 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.398 W/kg
SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.369 W/kg



0 dB = 0.369 W/kg = -4.33 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.4 °C
Ambient Temperature: 21.5 °C
Test Date: 04/11/2022
Plot No.: 22

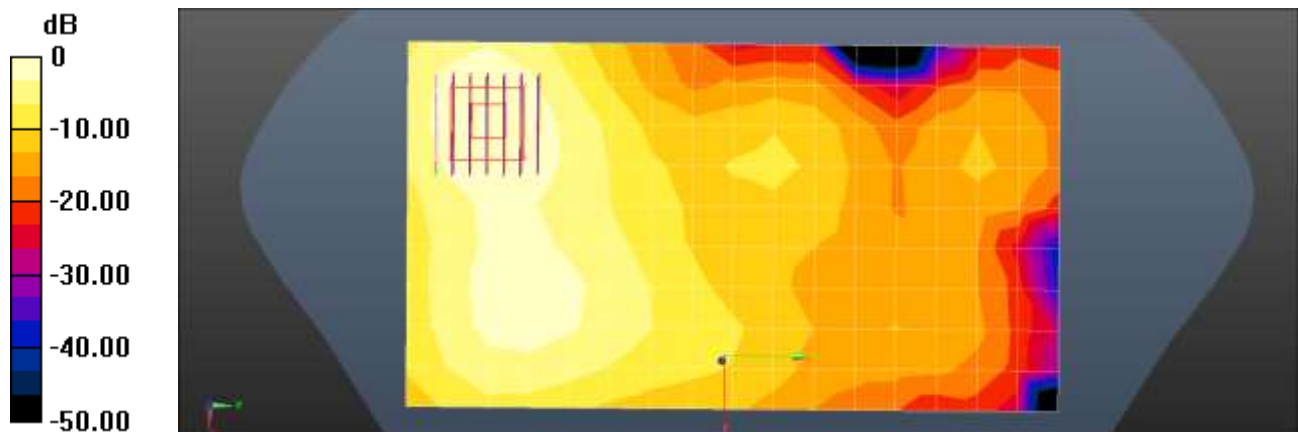
Communication System: UID 0, LTE Band 41 (FCC) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.58052
Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.956$ S/m; $\epsilon_r = 37.828$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2593 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 41 BodyWorn Front QPSK 20MHz 1RB 49offset 40620ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.473 W/kg

LTE Band 41 BodyWorn Front QPSK 20MHz 1RB 49offset 40620ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.012 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.693 W/kg
SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.208 W/kg
Maximum value of SAR (measured) = 0.475 W/kg



0 dB = 0.473 W/kg = -3.25 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.3 °C
Ambient Temperature: 21.4 °C
Test Date: 04/12/2022
Plot No.: 23

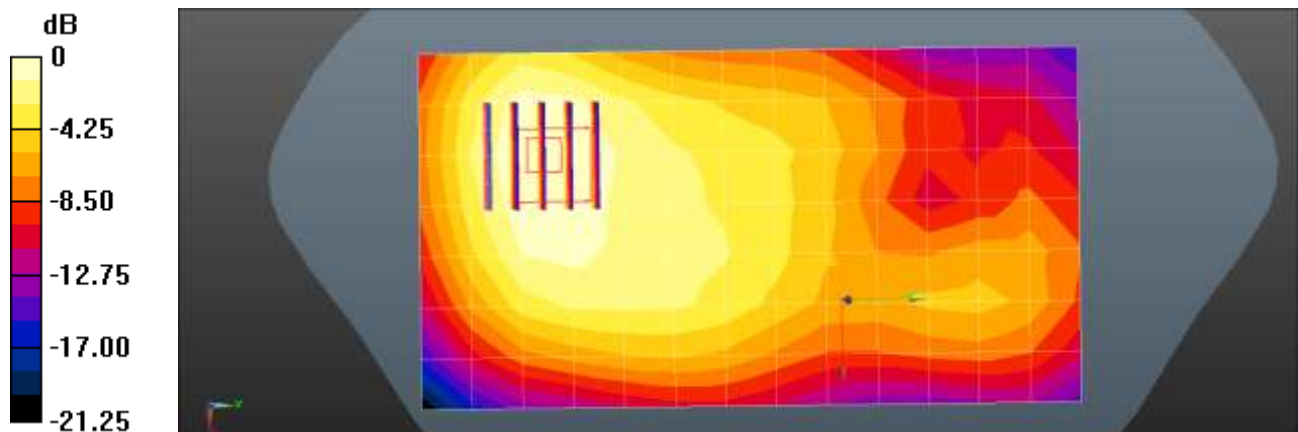
Communication System: UID 0, LTE Band 66(20MHz FCC) (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.364 \text{ S/m}$; $\epsilon_r = 41.535$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1745 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 66 BodyWorn Front QPSK 20MHz 1RB 49offset 132322ch/Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.522 W/kg

LTE Band 66 BodyWorn Front QPSK 20MHz 1RB 49offset 132322ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 13.21 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.725 W/kg
SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.522 W/kg = -2.83 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 °C
Ambient Temperature: 20.1 °C
Test Date: 04/19/2022
Plot No.: 24

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 39.287$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2437 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11b BodyWorn Rear 1Mbps 6ch/Area Scan (10x17x1): Interpolated grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.885 W/kg

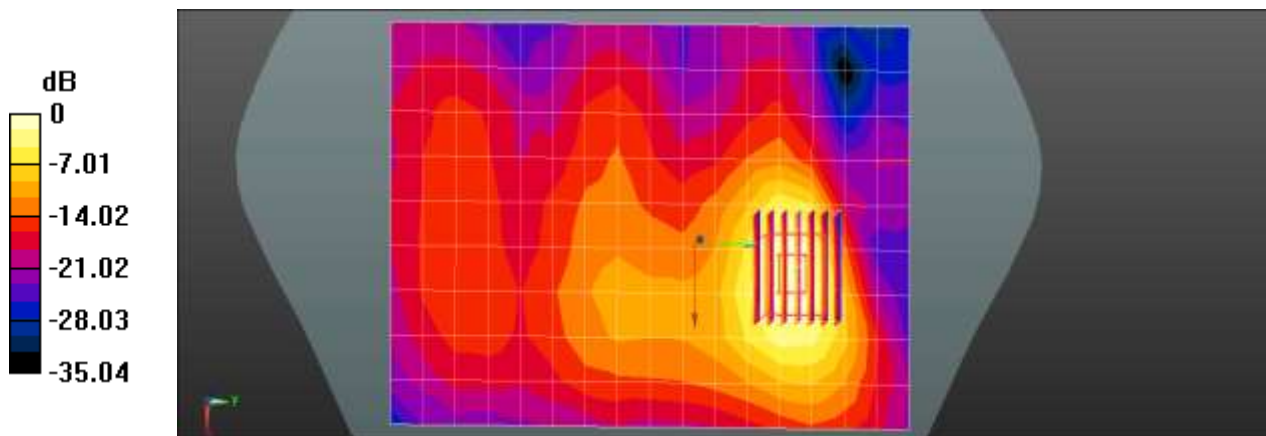
802.11b BodyWorn Rear 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.175 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.308 W/kg

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 0.885 W/kg = -0.53 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5 °C
Ambient Temperature: 20.6 °C
Test Date: 04/13/2022
Plot No.: 25

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 4.769$ S/m; $\epsilon_r = 37.023$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(5.15, 5.15, 5.15) @ 5300 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a BodyWorn Rear 6Mbps 60ch/Area Scan (12x20x1): Interpolated grid: dx=10mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.684 W/kg

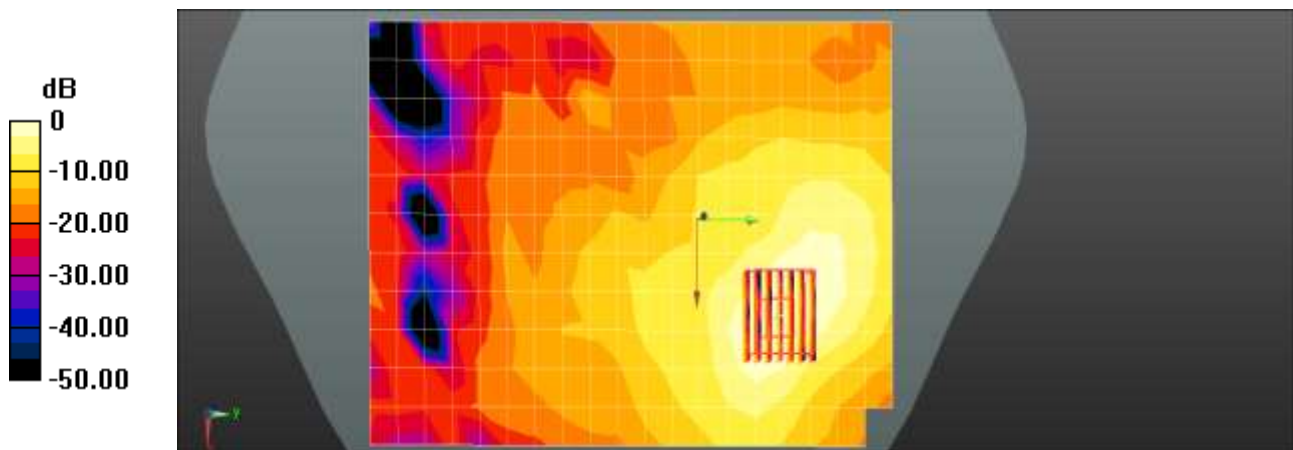
802.11a BodyWorn Rear 6Mbps 60ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.641 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.684 W/kg = -1.65 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1 °C
Ambient Temperature: 21.2 °C
Test Date: 04/18/2022
Plot No.: 26

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.307
Medium parameters used: $f = 2480$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 39.296$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2480 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

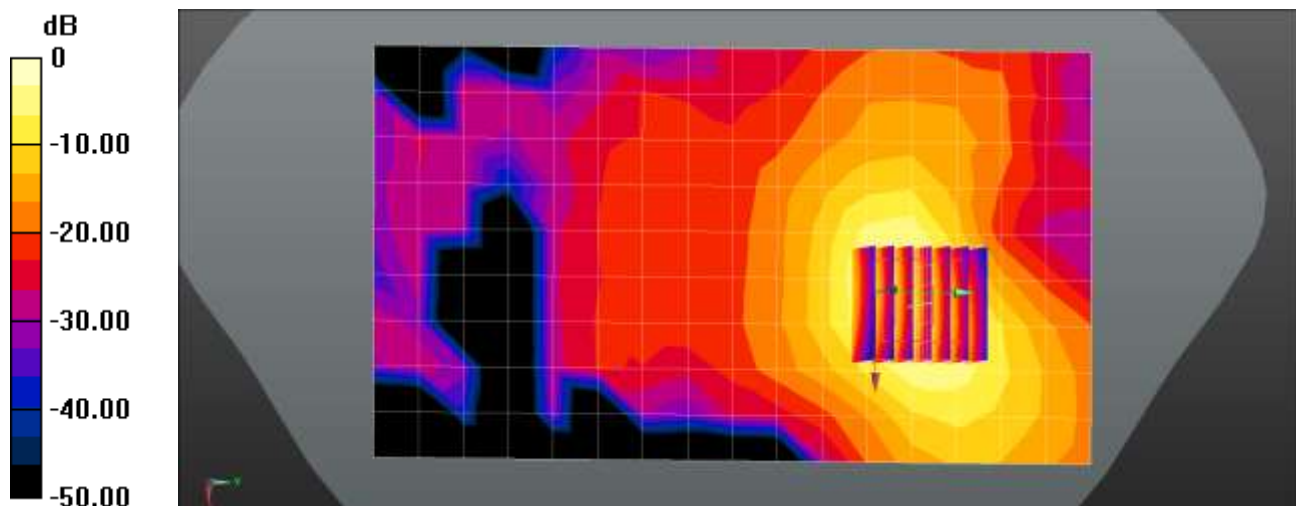
Bluetooth Bodyworn Rear DH5 78ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.408 W/kg

Bluetooth Bodyworn Rear DH5 78ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.268 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.538 W/kg

SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.438 W/kg



0 dB = 0.408 W/kg = -3.89 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/05/2022
Plot No.: 27

Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.223$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

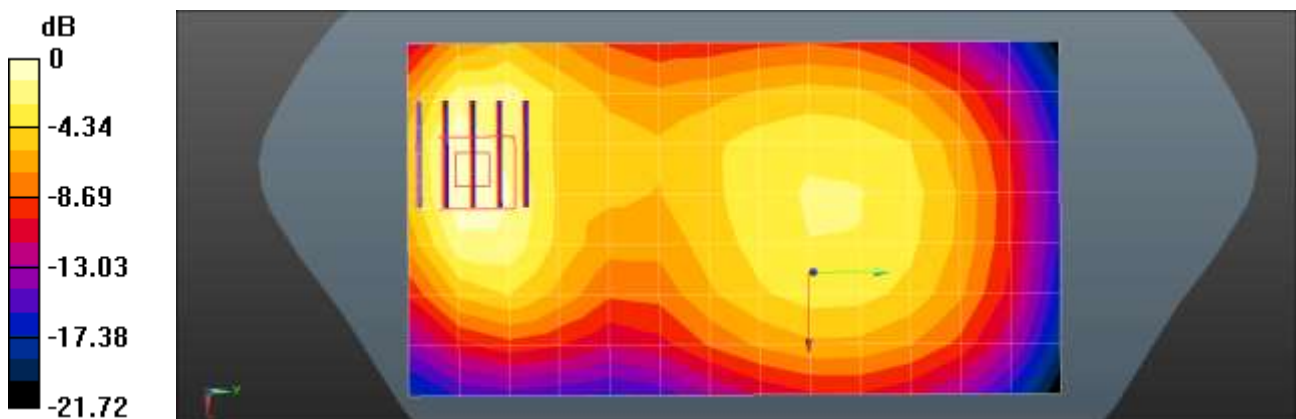
- Probe: ES3DV3 - SN3076; ConvF(5.98, 5.98, 5.98) @ 836.6 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

GSM850 2Tx Body Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.348 W/kg

GSM850 2Tx Body Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.29 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.559 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.183 W/kg
Maximum value of SAR (measured) = 0.387 W/kg



0 dB = 0.348 W/kg = -4.59 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/06/2022
Plot No.: 28

Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz;Duty Cycle: 1:4.14954
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 41.369$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

GSM1900 2Tx Body Rear 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.313 W/kg

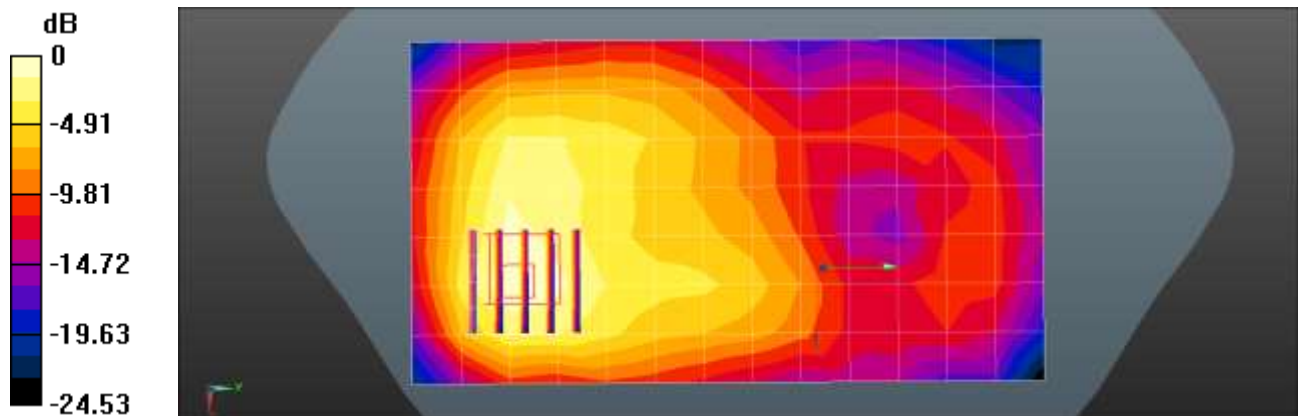
GSM1900 2Tx Body Rear 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.117 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.313 W/kg = -5.04 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 °C
Ambient Temperature: 19.2 °C
Test Date: 03/29/2022
Plot No.: 29

Communication System: UID 0, WCDMA850 (0); Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 40.273$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 846.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 Ax; Serial: 2014
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 5 Body Rear 4233ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.901 W/kg

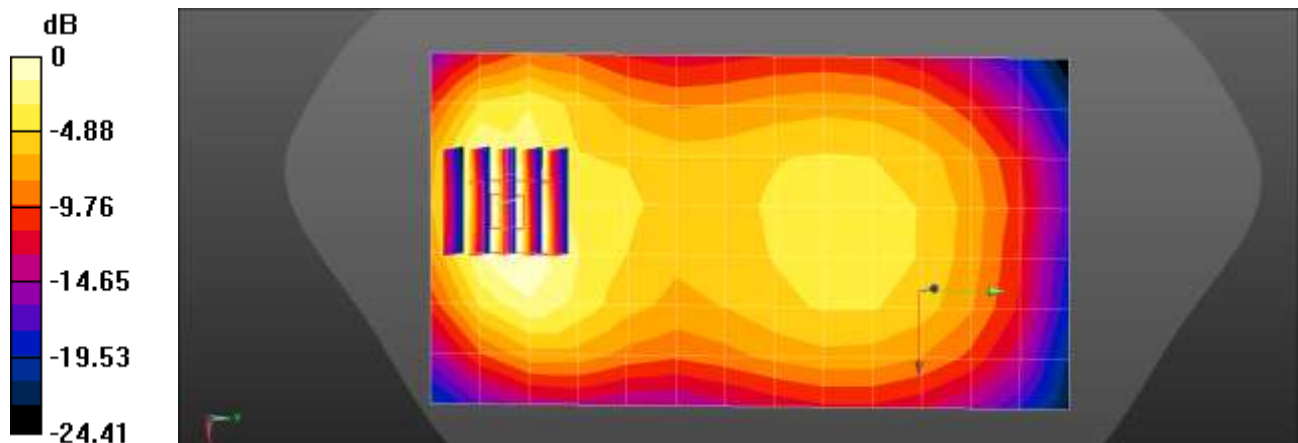
UMTS Band 5 Body Rear 4233ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.02 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.445 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 0.901 W/kg = -0.45 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/07/2022
Plot No.: 30

Communication System: UID 0, WCDMA 1700 (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.314$ S/m; $\epsilon_r = 41.591$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1732.4 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

UMTS Band 4 Body Bottom 1412ch/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.489 W/kg

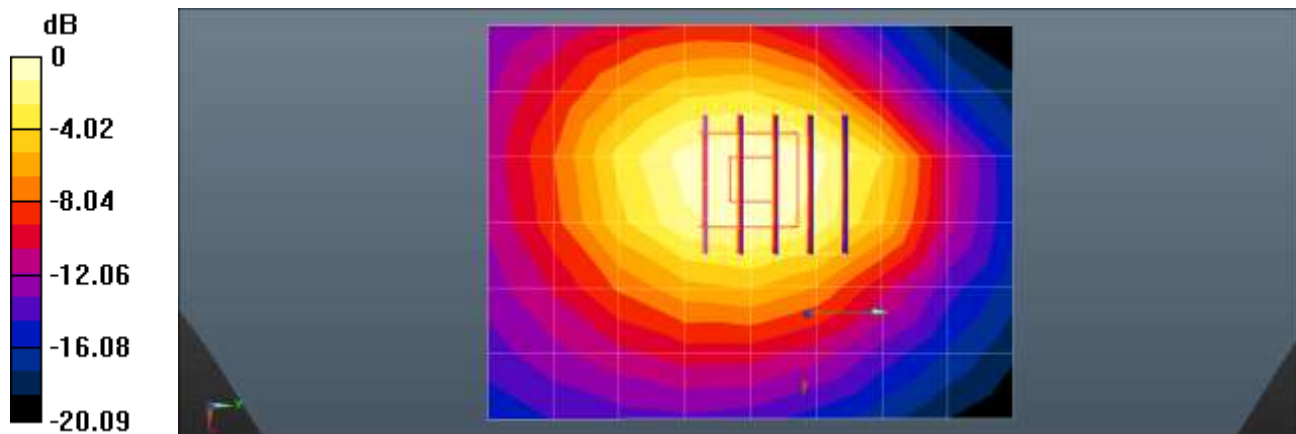
UMTS Band 4 Body Bottom 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.17 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.267 W/kg

Maximum value of SAR (measured) = 0.524 W/kg



0 dB = 0.489 W/kg = -3.11 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/06/2022
Plot No.: 31

Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 41.376$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

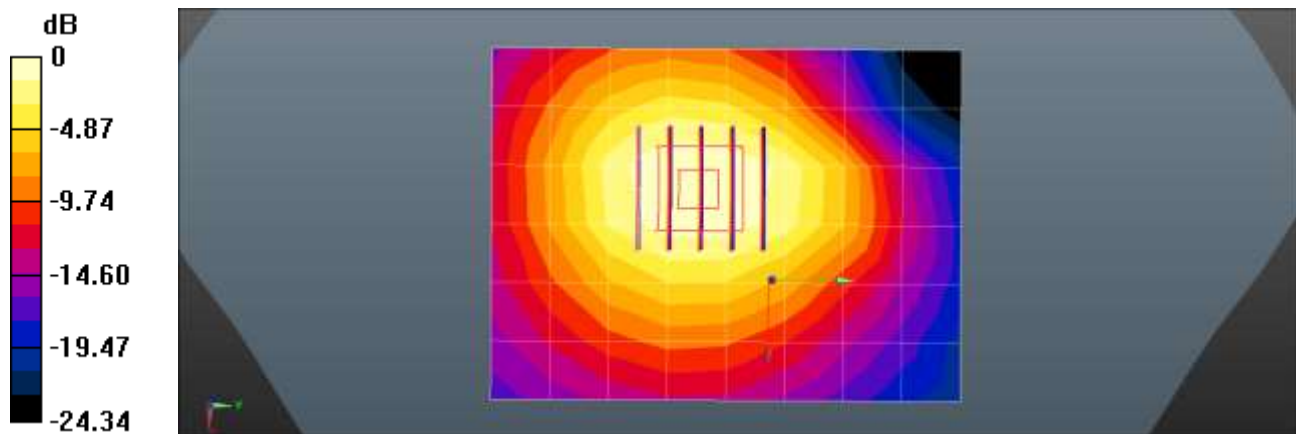
- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

UMTS Band 2 Body Bottom 9400ch/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.604 W/kg

UMTS Band 2 Body Bottom 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.86 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.345 W/kg
Maximum value of SAR (measured) = 0.705 W/kg



0 dB = 0.604 W/kg = -2.19 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/07/2022
Plot No.: 32

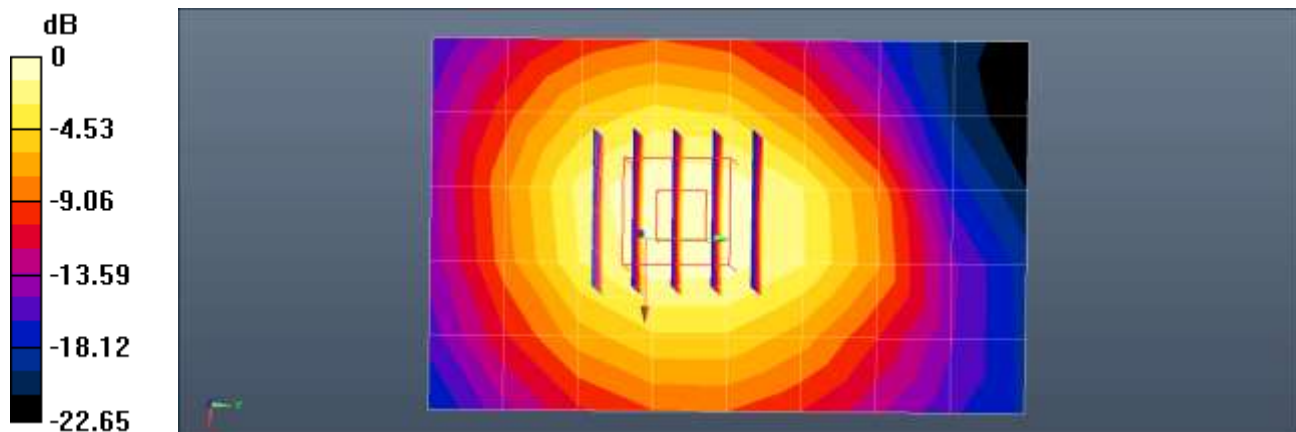
Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 41.37$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 2 Body Bottom QPSK 20MHz 50RB 49offset 18900ch/Area Scan (6x9x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.544 W/kg

LTE Band 2 Body Bottom QPSK 20MHz 50RB 49offset 18900ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.94 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.879 W/kg
SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 0.641 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8 °C
Ambient Temperature: 19.9 °C
Test Date: 03/31/2022
Plot No.: 33

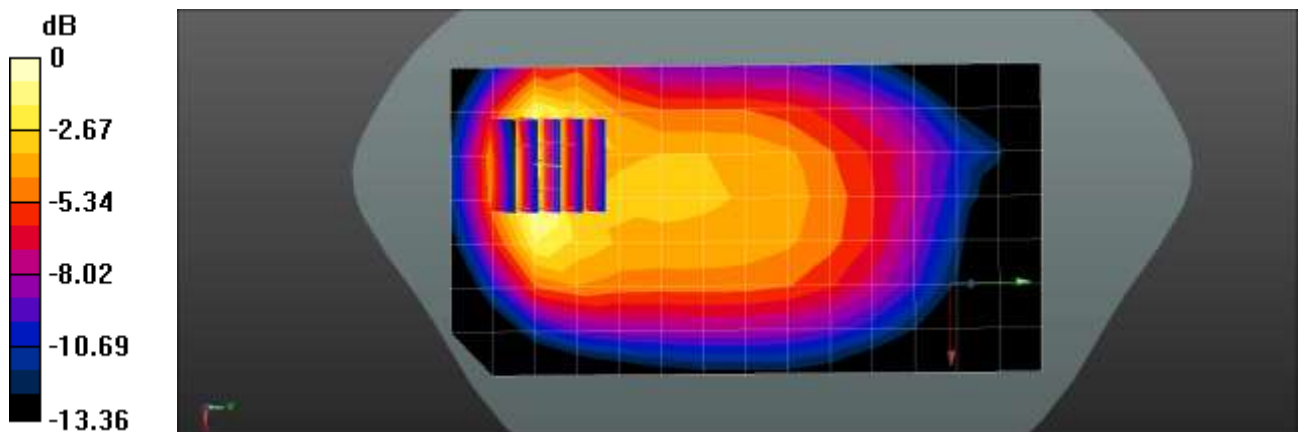
Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.851$ S/m; $\epsilon_r = 43.233$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 707.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 12 Head Body Rear QPSK 10MHz 1RB 24offset 23095ch/Area Scan (8x15x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.805 W/kg

LTE Band 12 Head Body Rear QPSK 10MHz 1RB 24offset 23095ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.60 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.996 W/kg
SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.325 W/kg
Maximum value of SAR (measured) = 0.823 W/kg



0 dB = 0.823 W/kg = -0.85 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6 °C
Ambient Temperature: 19.7 °C
Test Date: 04/01/2022
Plot No.: 34

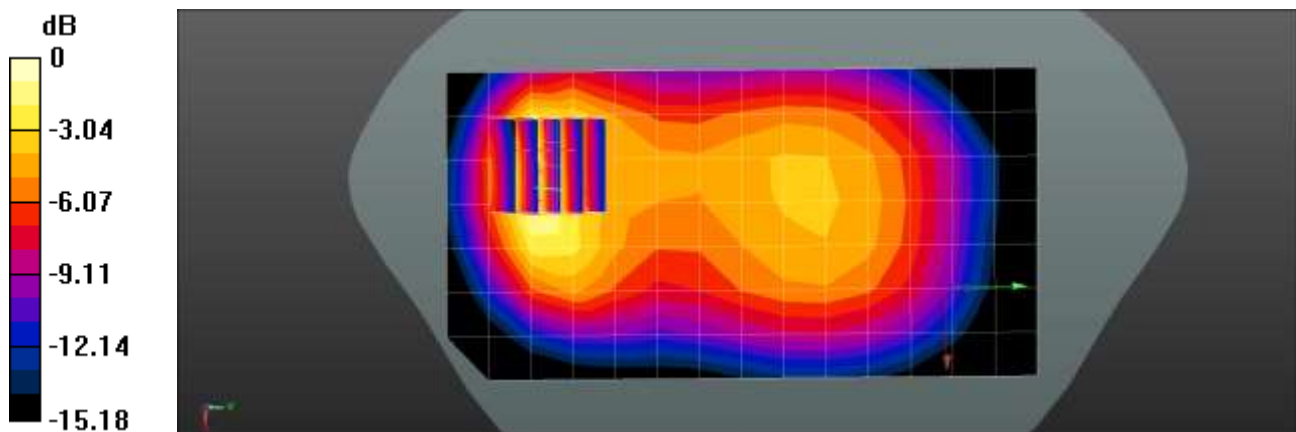
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 40.403$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 831.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 26 Body Rear QPSK 15MHz 1RB 0offset 26865ch/Area Scan (8x15x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.828 W/kg

LTE Band 26 Body Rear QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.91 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.332 W/kg
Maximum value of SAR (measured) = 0.893 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.4 °C
Ambient Temperature: 21.5 °C
Test Date: 04/11/2022
Plot No.: 35

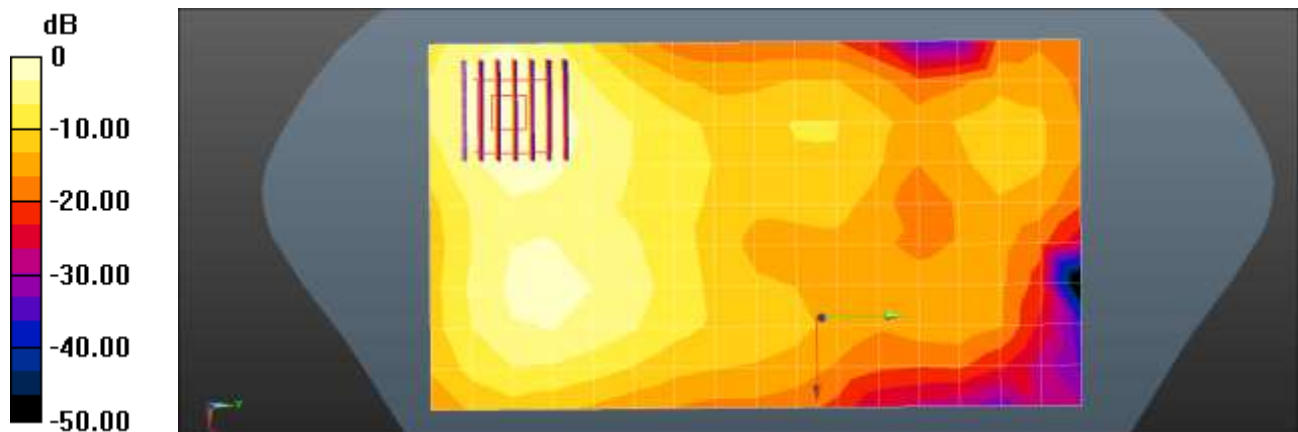
Communication System: UID 0, LTE Band 41 (FCC) (0); Frequency: 2680 MHz; Duty Cycle: 1:1.58052
Medium parameters used: $f = 2680$ MHz; $\sigma = 2.038$ S/m; $\epsilon_r = 37.424$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2680 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 41 Body Front QPSK 20MHz 1RB 49offset 41490ch/Area Scan (10x17x1): Measurement grid:
 $dx=12$ mm, $dy=12$ mm
Maximum value of SAR (measured) = 0.833 W/kg

LTE Band 41 Body Front QPSK 20MHz 1RB 49offset 41490ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 3.792 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.359 W/kg
Maximum value of SAR (measured) = 0.864 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.3 °C
Ambient Temperature: 21.4 °C
Test Date: 04/12/2022
Plot No.: 36

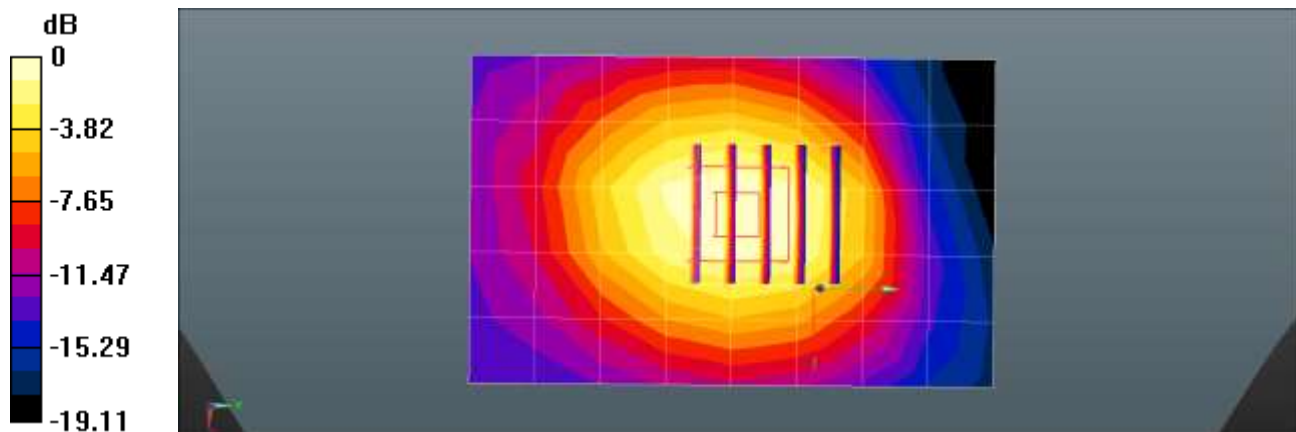
Communication System: UID 0, LTE Band 66(20MHz FCC) (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 41.535$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1745 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 66 Body Bottom QPSK 20MHz 50RB 25offset 132322ch/Area Scan (6x9x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.470 W/kg

LTE Band 66 Body Bottom QPSK 20MHz 50RB 25offset 132322ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.16 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.708 W/kg
SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.256 W/kg
Maximum value of SAR (measured) = 0.522 W/kg



0 dB = 0.470 W/kg = -3.28 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 °C
Ambient Temperature: 20.1 °C
Test Date: 04/19/2022
Plot No.: 37

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.837$ S/m; $\epsilon_r = 39.321$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2462 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11b Body Rear 1Mbps 11ch/Area Scan (10x17x1): Interpolated grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.447 W/kg

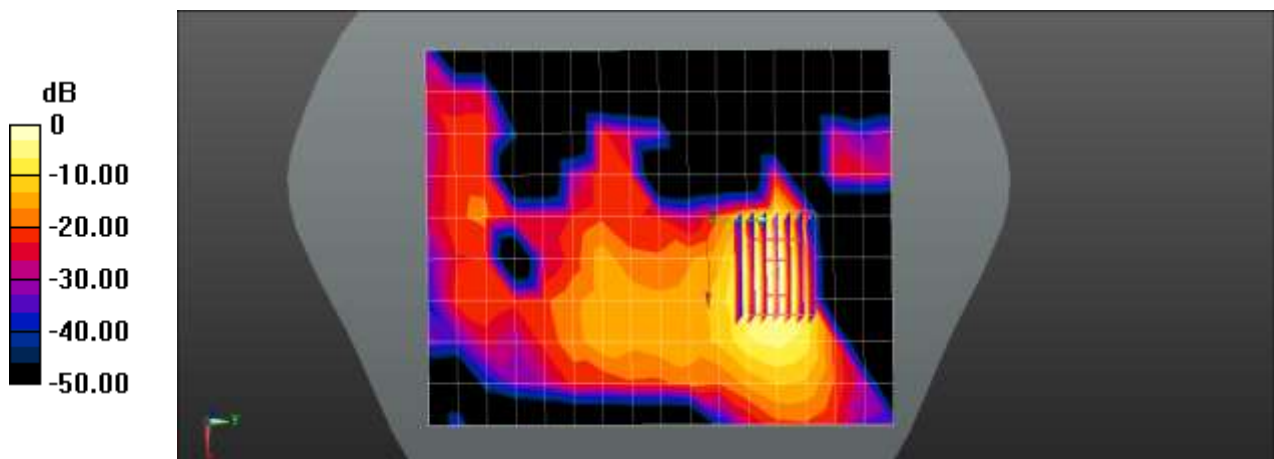
802.11b Body Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.040 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.513 W/kg



0 dB = 0.447 W/kg = -3.50 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.4 °C
Ambient Temperature: 21.5 °C
Test Date: 04/15/2022
Plot No.: 38

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5805 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5805$ MHz; $\sigma = 5.2$ S/m; $\epsilon_r = 36.117$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5805 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a Body Rear 6Mbps 161ch/Area Scan (12x20x1): Interpolated grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.10 W/kg

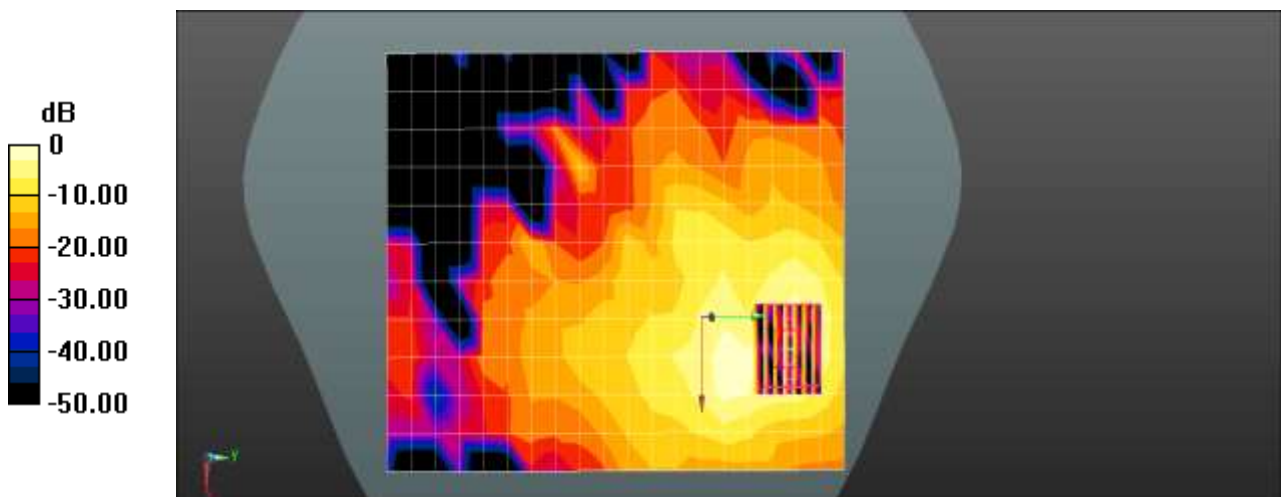
802.11a Body Rear 6Mbps 161ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.254 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 1.22 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1 °C
Ambient Temperature: 21.2 °C
Test Date: 04/18/2022
Plot No.: 39

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.307
Medium parameters used: $f = 2480$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 39.296$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2480 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bluetooth Body Rear DH5 78ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.899 W/kg

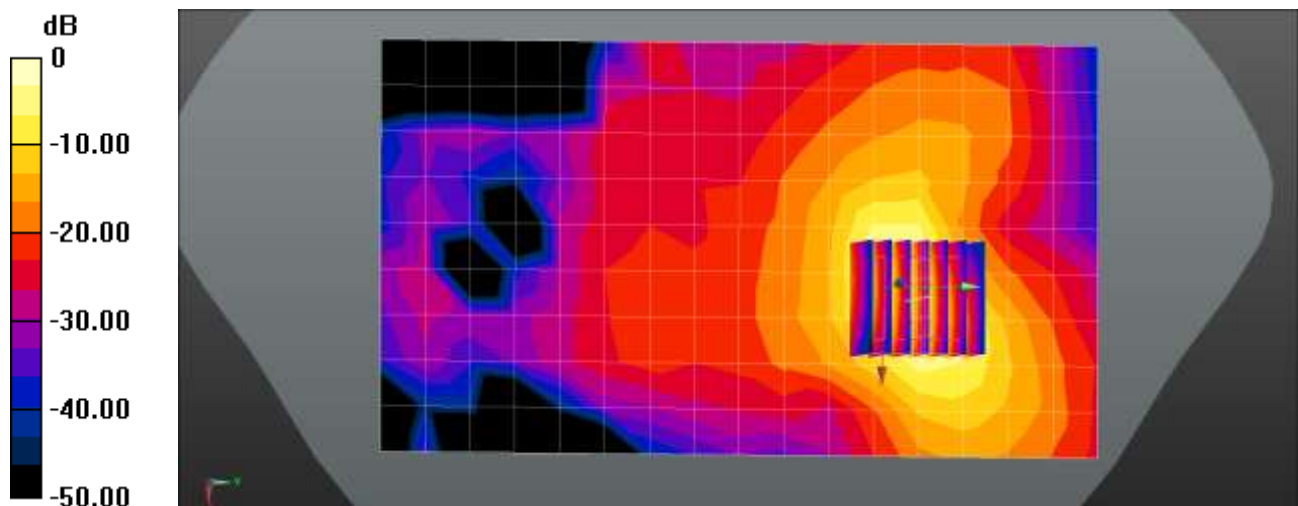
Bluetooth Body Rear DH5 78ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.675 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.968 W/kg



0 dB = 0.899 W/kg = -0.46 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5 °C
Ambient Temperature: 20.6 °C
Test Date: 04/08/2022
Plot No.: 40

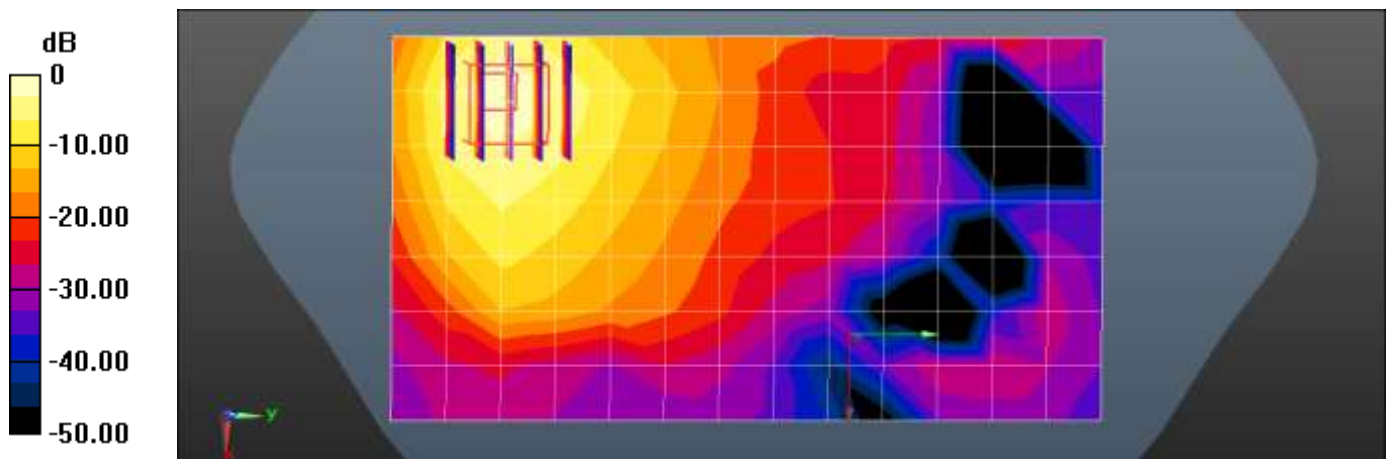
Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 40.802$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1880 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 Phablet Front QPSK 20MHz 1RB 49offset 18900ch/Area Scan (8x14x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.22 W/kg

LTE Band 2 Phablet Front QPSK 20MHz 1RB 49offset 18900ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.707 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 8.66 W/kg
SAR(1 g) = 4.12 W/kg; SAR(10 g) = 1.98 W/kg
Maximum value of SAR (measured) = 5.05 W/kg



0 dB = 5.22 W/kg = 7.18 dBW/kg

Test Laboratory: HCT CO., LTD
 EUT Type: Mobile Phone
 Liquid Temperature: 20.5 °C
 Ambient Temperature: 20.6 °C
 Test Date: 04/08/2022
 Plot No.: 41

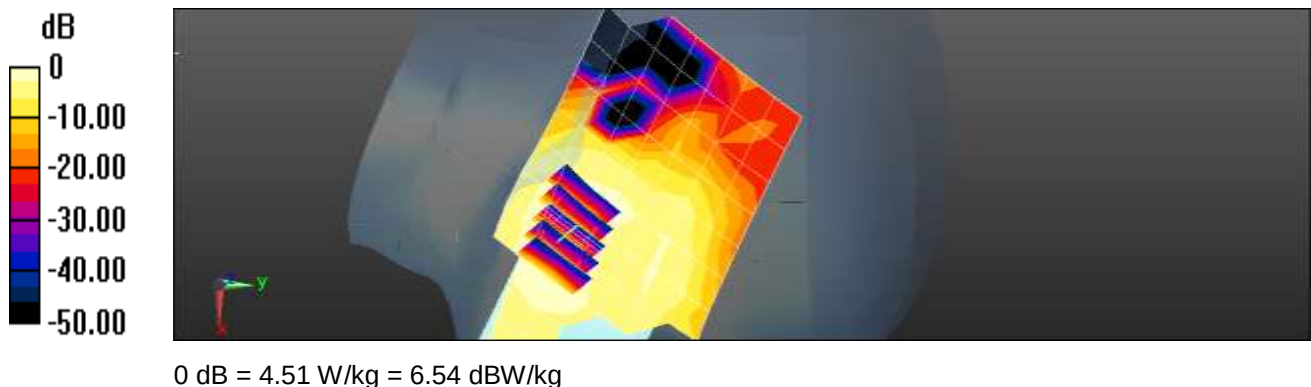
Communication System: UID 0, LTE Band 2 (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.425 \text{ S/m}$; $\epsilon_r = 40.739$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 Phablet Front QPSK 20MHz 1RB 49offset 19100ch/Area Scan (8x14x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 4.51 W/kg

LTE Band 2 Phablet Front QPSK 20MHz 1RB 49offset 19100ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.462 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 8.16 W/kg
SAR(1 g) = 3.92 W/kg; SAR(10 g) = 1.88 W/kg
 Maximum value of SAR (measured) = 5.08 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5 °C
Ambient Temperature: 20.6 °C
Test Date: 04/14/2022
Plot No.: 42

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 4.944$ S/m; $\epsilon_r = 36.255$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.57, 4.57, 4.57) @ 5600 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a Phablet Rear 6Mbps 120ch/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 19.3 W/kg

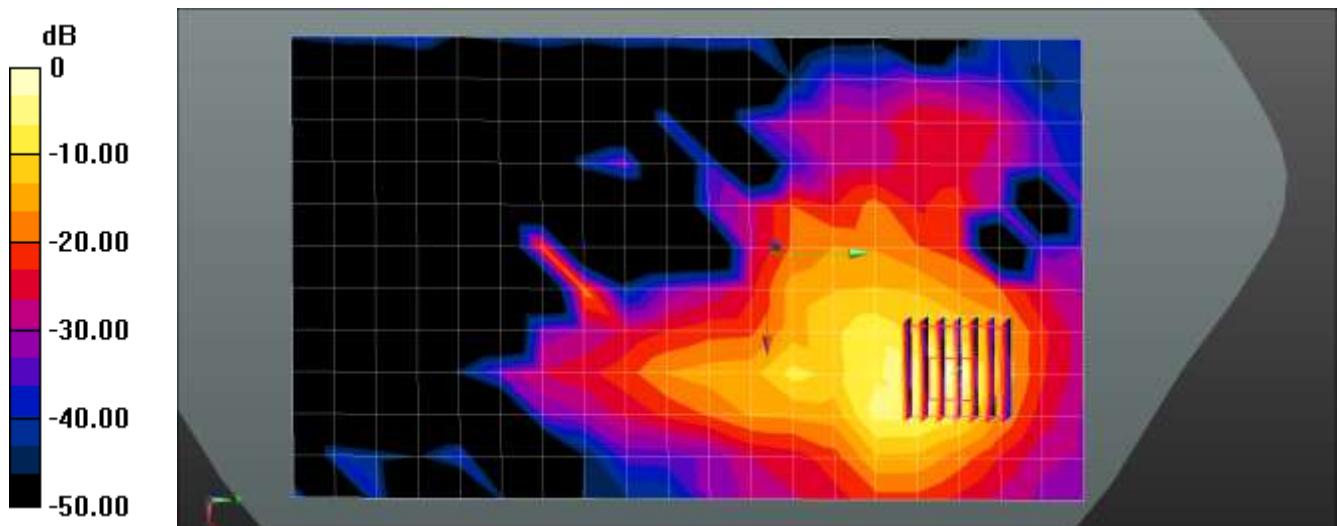
802.11a Phablet Rear 6Mbps 120ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 46.7 W/kg

SAR(1 g) = 7.11 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 20.9 W/kg



Appendix C. – Dipole Verification Plots

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 03/31/2022

DUT: Dipole 750 MHz D750V3; Type: D750V3;

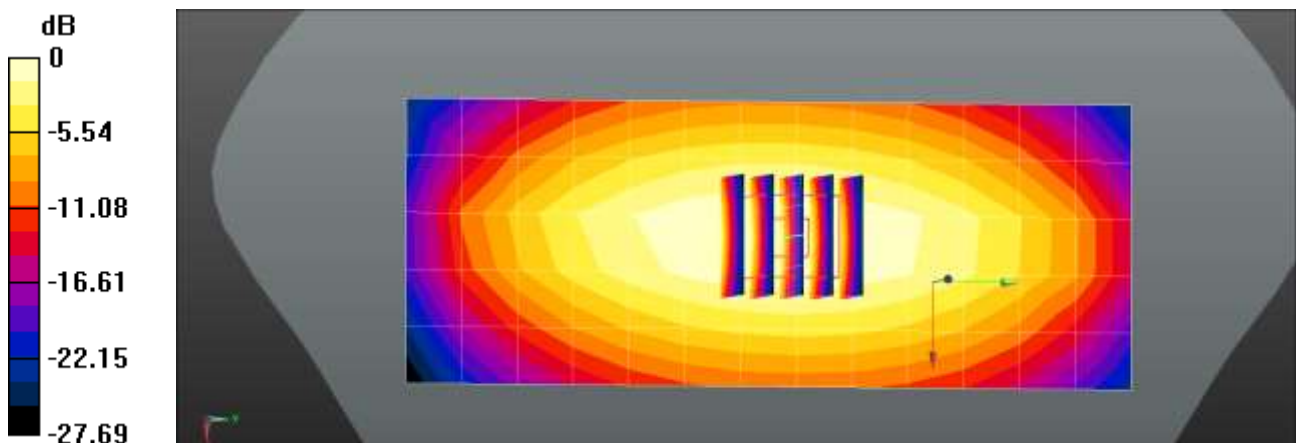
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 42.615$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 750 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.509 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 26.14 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.642 W/kg
SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.571 W/kg



0 dB = 0.509 W/kg = -2.93 dBW/kg

■ **Verification Data (835 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.6 °C
Test Date: 04/01/2022

DUT: Dipole 835 MHz D835V2; Type: D835V2;

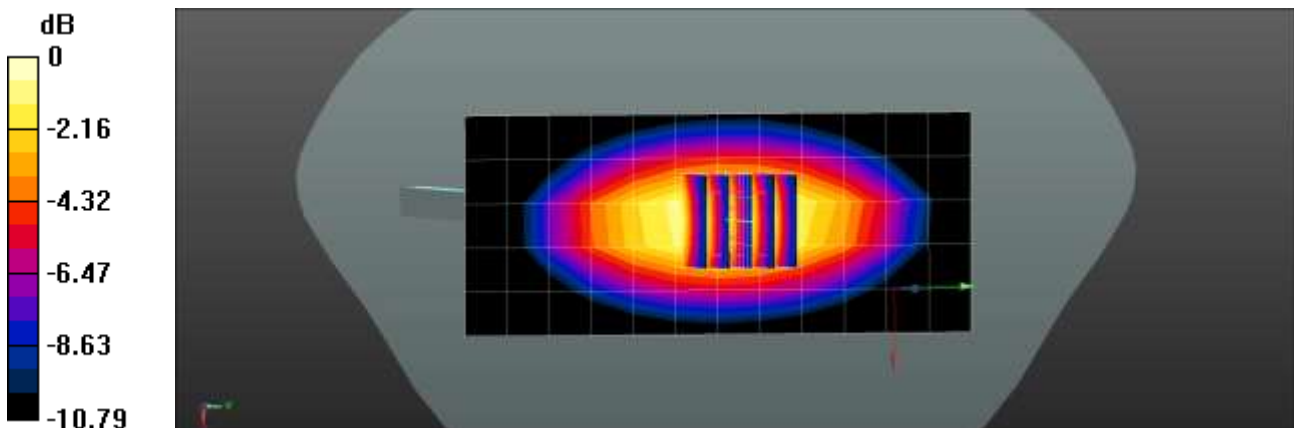
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 40.348$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 835 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

835MHz Head Verification/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.588 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 28.23 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.764 W/kg
SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.330 W/kg
Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg = -1.69 dBW/kg

■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.1 °C
Test Date: 03/29/2022

DUT: Dipole 835 MHz D835V2; Type: D835V2;

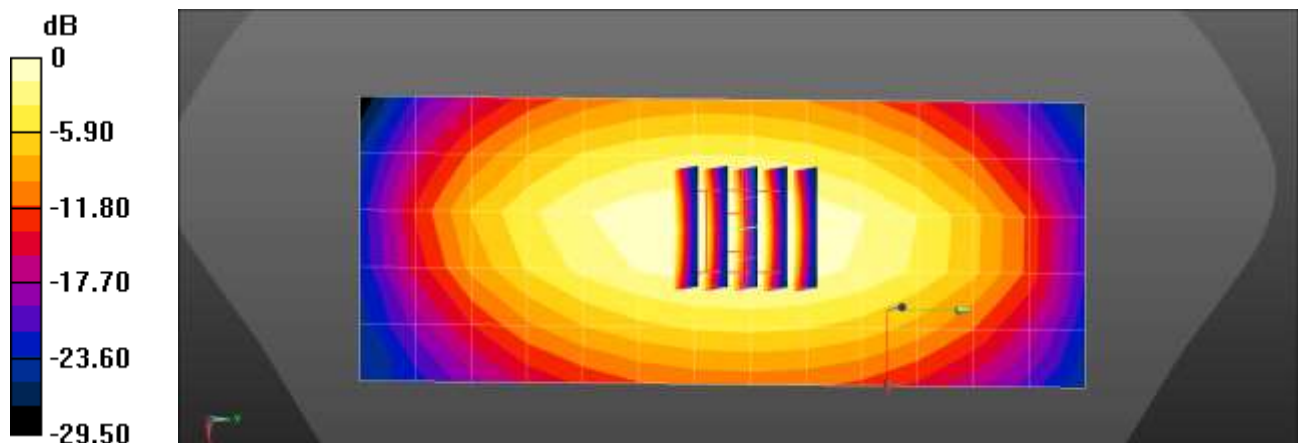
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 40.45$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 Ax; Serial: 2014
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.607 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 27.76 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.752 W/kg
SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.323 W/kg
Maximum value of SAR (measured) = 0.665 W/kg



0 dB = 0.607 W/kg = -2.17 dBW/kg

■ **Verification Data (835 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/05/2022

DUT: Dipole 835 MHz D835V2; Type: D835V2;

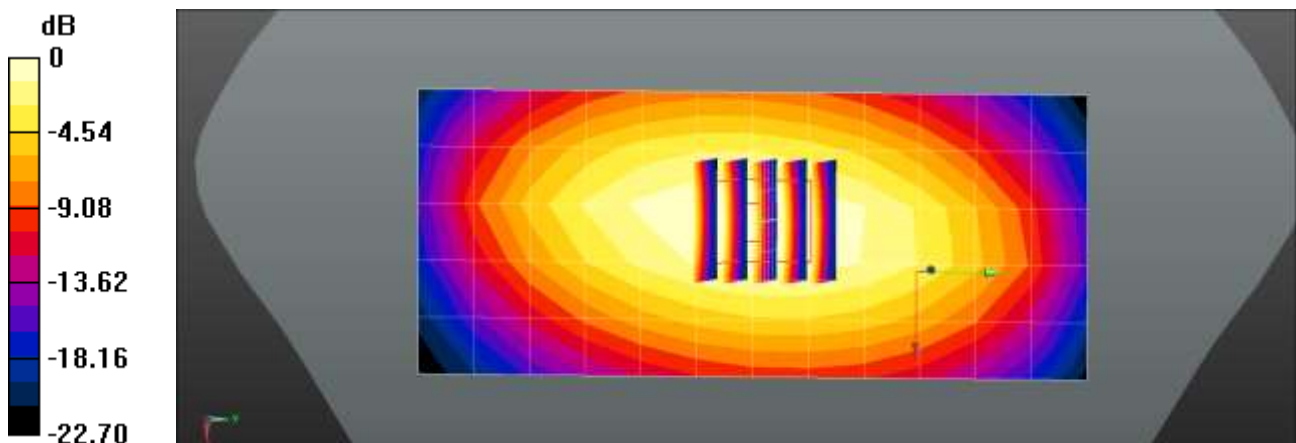
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 40.248$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.98, 5.98, 5.98) @ 835 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

835MHz Head Verification/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.523 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 25.15 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.723 W/kg
SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.310 W/kg
Maximum value of SAR (measured) = 0.560 W/kg



0 dB = 0.523 W/kg = -2.81 dBW/kg

■ **Verification Data (1800 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.3 °C
Test Date: 04/12/2022

DUT: Dipole 1800 MHz D1800V2; Type: D1800V2;

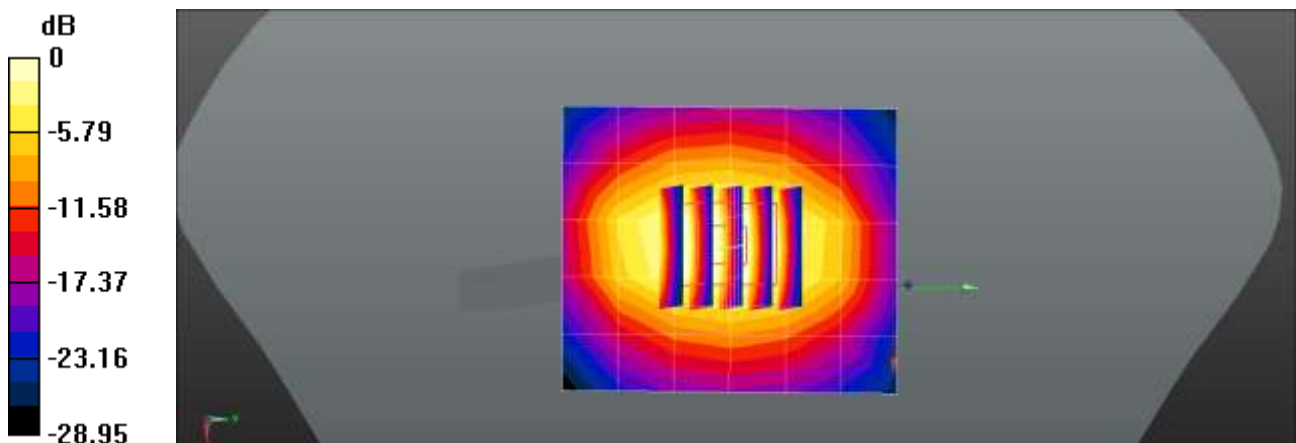
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 41.281$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1800 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1800MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.88 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 43.49 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.63 W/kg
SAR(1 g) = 1.95 W/kg; SAR(10 g) = 1.01 W/kg
Maximum value of SAR (measured) = 2.49 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

■ **Verification Data (1800 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/07/2022

DUT: Dipole 1800 MHz D1800V2; Type: D1800V2;

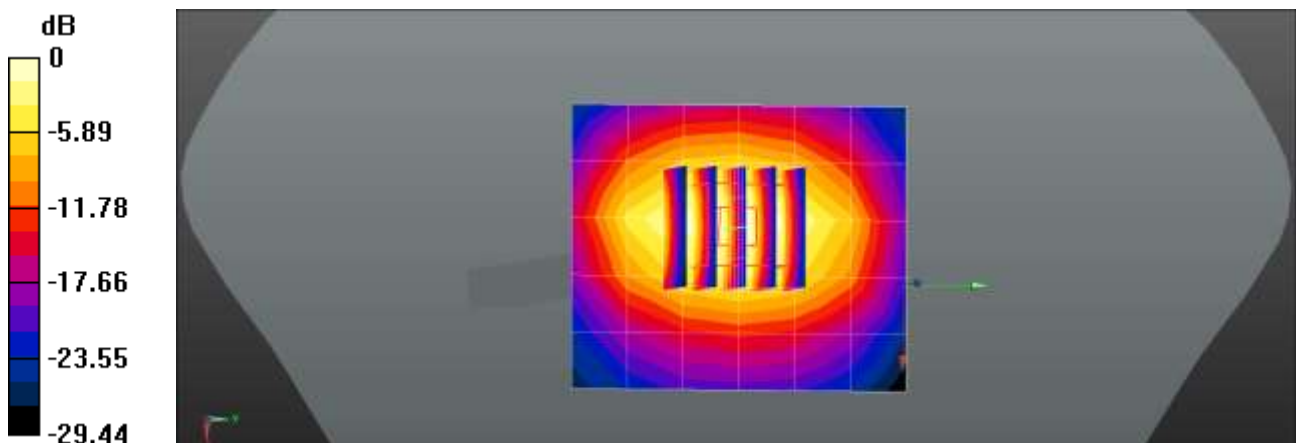
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 41.289$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.27, 5.27, 5.27) @ 1800 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1800MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.34 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.09 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 3.52 W/kg
SAR(1 g) = 1.93 W/kg; SAR(10 g) = 1.02 W/kg
Maximum value of SAR (measured) = 2.43 W/kg



0 dB = 2.34 W/kg = 3.69 dBW/kg

■ **Verification Data (1900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/06/2022

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2;

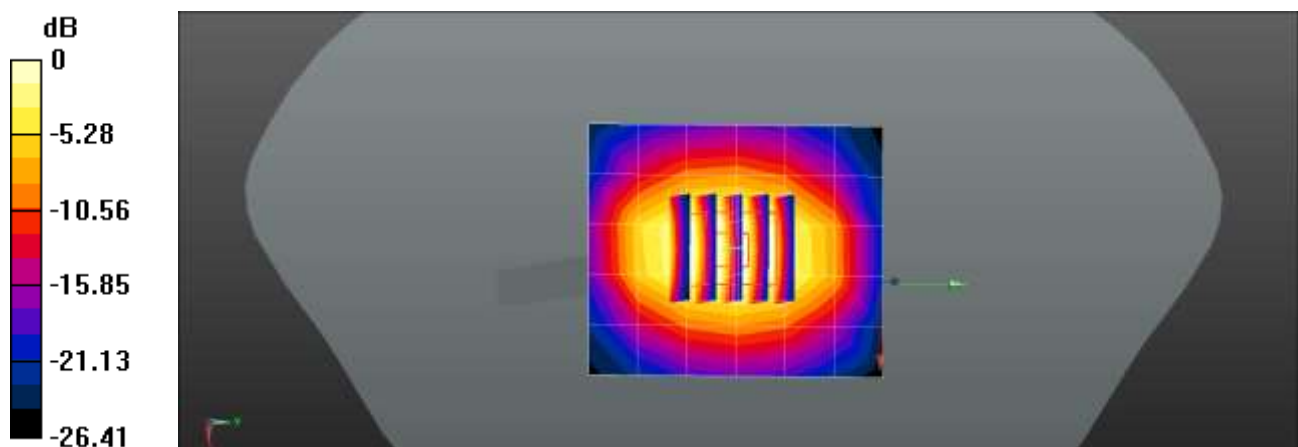
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 41.301$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.91 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 44.72 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.95 W/kg
SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 2.73 W/kg



0 dB = 1.91 W/kg = 2.81 dBW/kg

■ Verification Data (1900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/07/2022

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2;

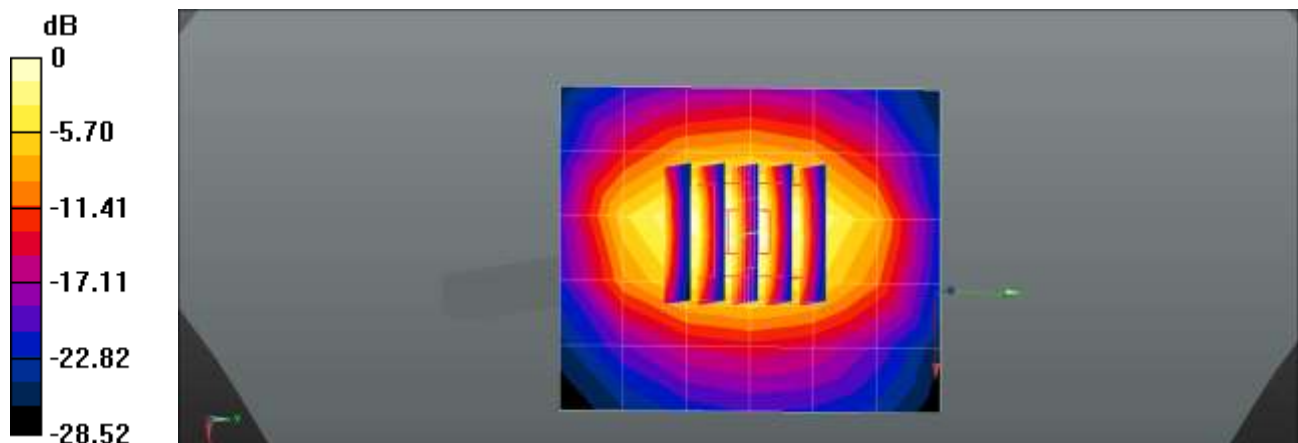
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.418 \text{ S/m}$; $\epsilon_r = 41.301$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 2.47 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 40.91 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 4.16 W/kg
SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.07 W/kg
Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.47 W/kg = 3.93 dBW/kg

■ **Verification Data (1900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/06/2022

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2;

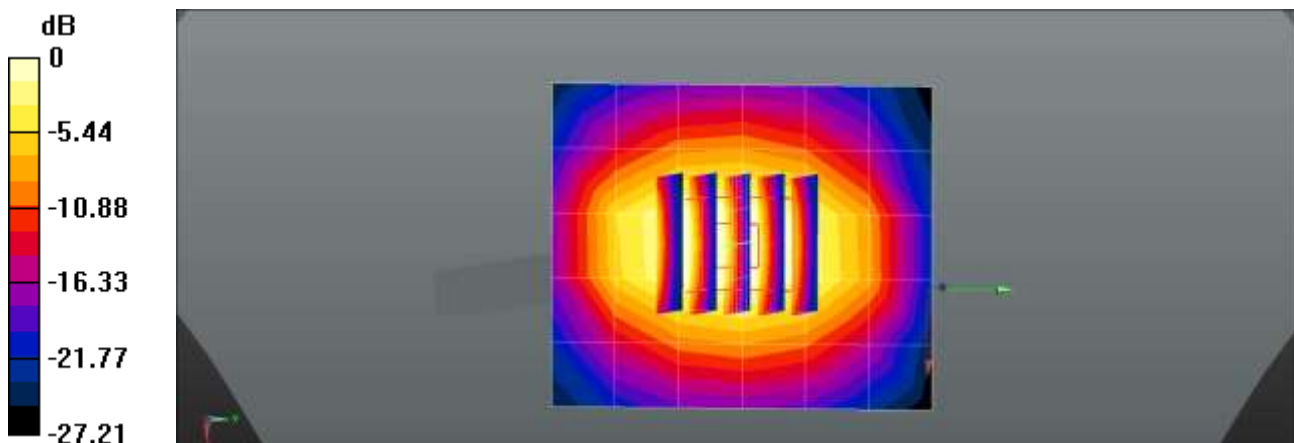
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 41.31$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.93 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 44.92 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.94 W/kg
SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.11 W/kg
Maximum value of SAR (measured) = 2.71 W/kg



0 dB = 1.93 W/kg = 2.86 dBW/kg

■ Verification Data (2450 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.0 °C
Test Date: 04/19/2022

DUT: Dipole 2450 MHz; Type: D2450V2;

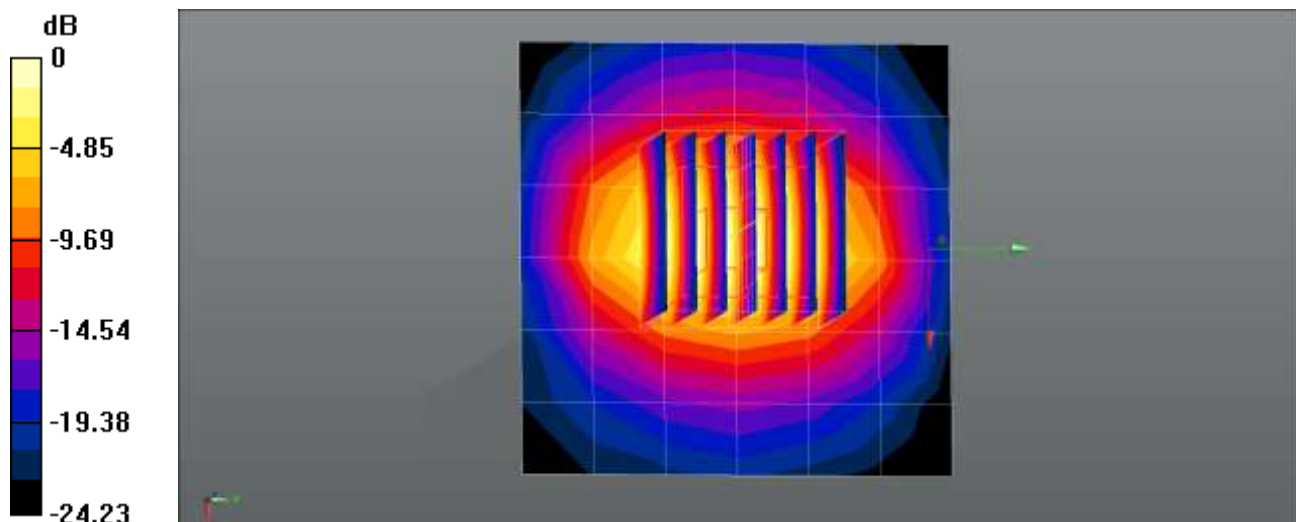
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.827$ S/m; $\epsilon_r = 39.303$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2450 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.10 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.08 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 5.76 W/kg
SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.54 W/kg



0 dB = 4.76 W/kg = 6.78 dBW/kg

■ **Verification Data (2450 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 18.9 °C
Test Date: 04/01/2022

DUT: Dipole 2450 MHz; Type: D2450V2;

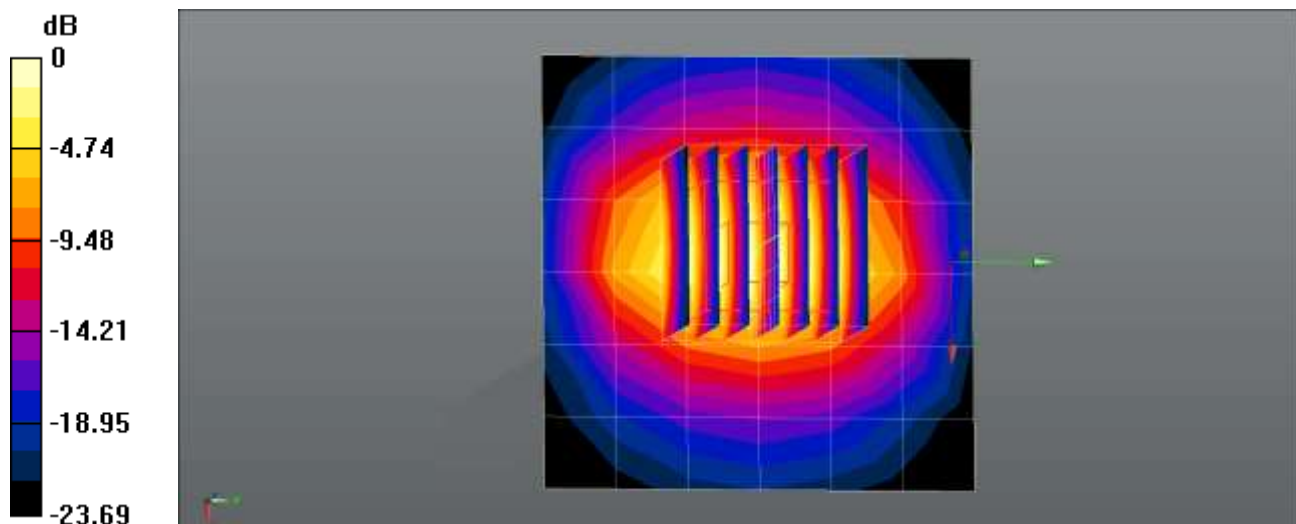
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.834$ S/m; $\epsilon_r = 39.171$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2450 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.37 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.57 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 6.18 W/kg
SAR(1 g) = 2.72 W/kg; SAR(10 g) = 1.21 W/kg
Maximum value of SAR (measured) = 4.82 W/kg



0 dB = 4.82 W/kg = 6.83 dBW/kg

■ Verification Data (2450 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.4 °C
Test Date: 04/15/2022

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2;

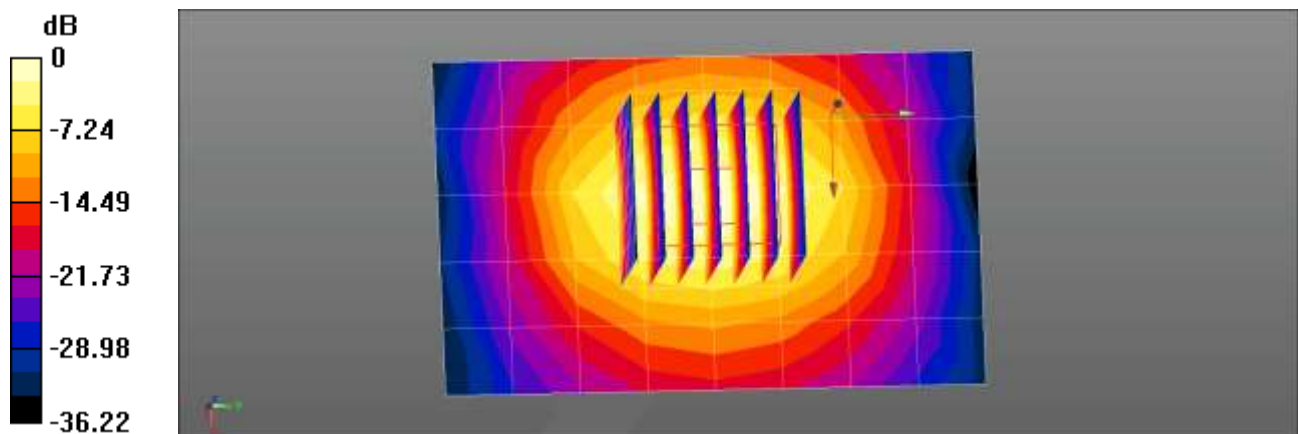
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.825$ S/m; $\epsilon_r = 39.325$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2450 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2450MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.66 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.99 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 5.98 W/kg
SAR(1 g) = 2.87 W/kg; SAR(10 g) = 1.35 W/kg
Maximum value of SAR (measured) = 4.79 W/kg



0 dB = 3.53 W/kg = 5.48 dBW/kg

■ Verification Data (2450 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.1 °C
Test Date: 04/18/2022

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2;

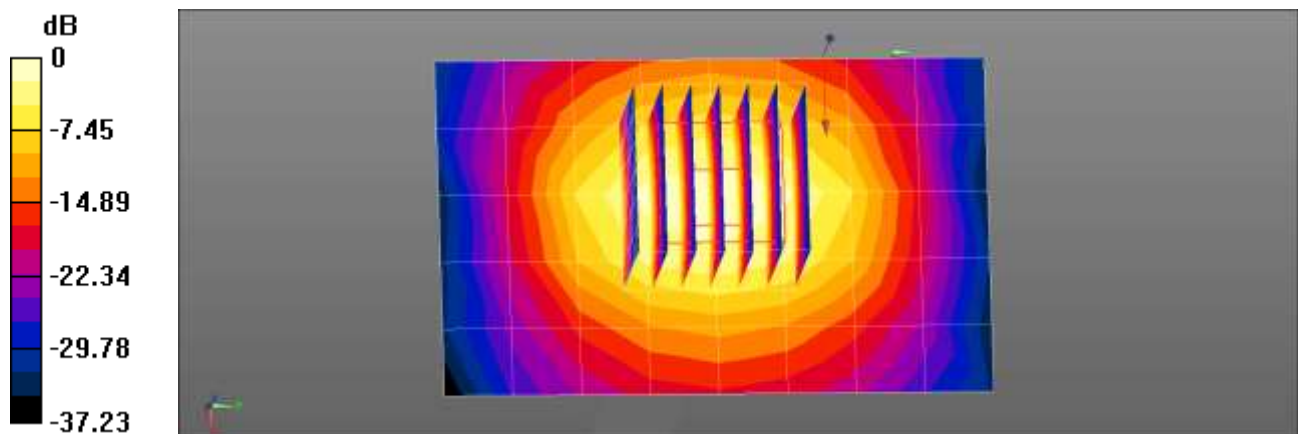
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.833$ S/m; $\epsilon_r = 39.246$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2450 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2450MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.24 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.60 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 5.80 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.29 W/kg
Maximum value of SAR (measured) = 4.60 W/kg



0 dB = 3.55 W/kg = 5.50 dBW/kg

■ Verification Data (2600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.4 °C
Test Date: 04/11/2022

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2;

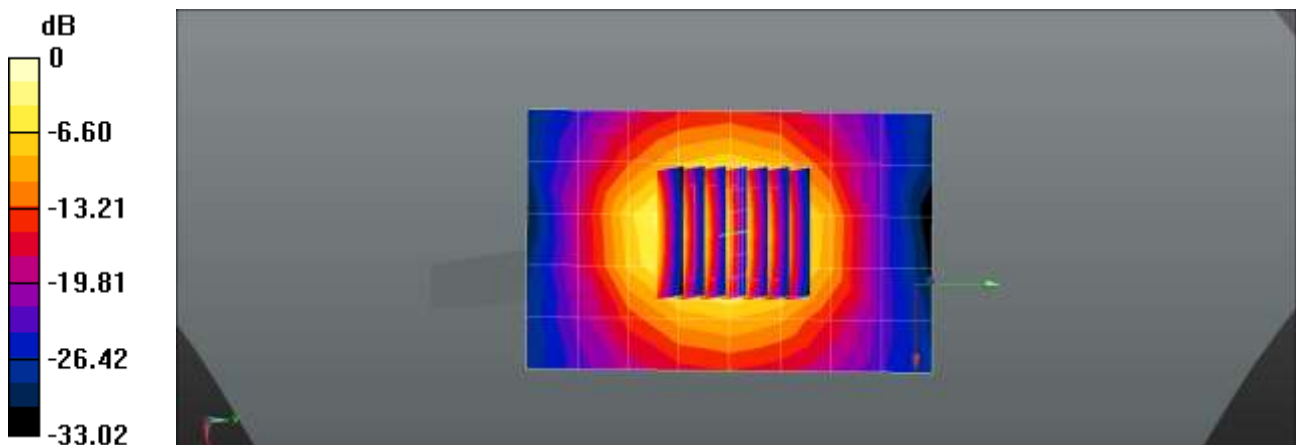
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 37.793$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2600 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.14 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 46.12 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 6.35 W/kg
SAR(1 g) = 2.87 W/kg; SAR(10 g) = 1.27 W/kg
Maximum value of SAR (measured) = 3.88 W/kg



0 dB = 3.14 W/kg = 4.97 dBW/kg

■ Verification Data (5250 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.5 °C
Test Date: 04/13/2022

DUT: Dipole 5GHz D5GHzV2; Type: D5GHzV2;

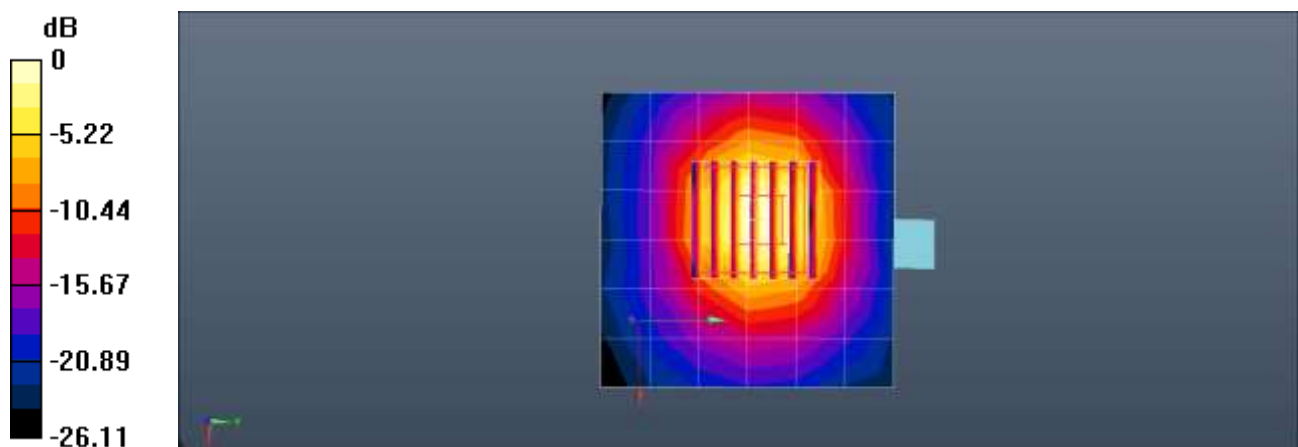
Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.662$ S/m; $\epsilon_r = 37.094$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(5.15, 5.15, 5.15) @ 5250 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 7.90 W/kg

5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 45.01 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 4.38 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 7.90 W/kg = 8.98 dBW/kg

■ **Verification Data (5600 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.5 °C
Test Date: 04/14/2022

DUT: Dipole 5GHz D5GHzV2; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 4.944$ S/m; $\epsilon_r = 36.255$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.57, 4.57, 4.57) @ 5600 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.59 W/kg

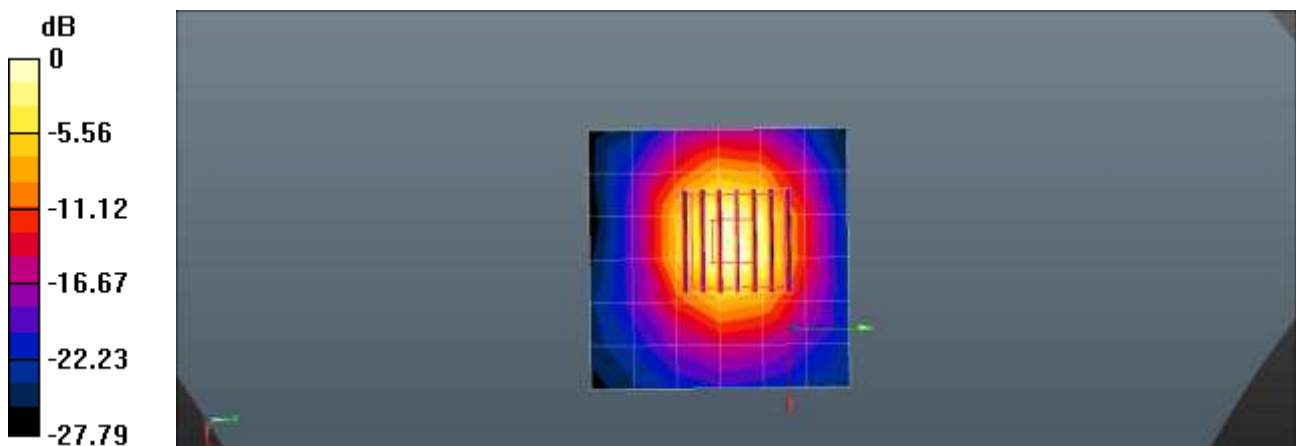
5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 45.55 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 20.2 W/kg

SAR(1 g) = 4.58 W/kg; SAR(10 g) = 1.29 W/kg

Maximum value of SAR (measured) = 12.0 W/kg



0 dB = 8.59 W/kg = 9.34 dBW/kg

■ Verification Data (5750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.4 °C
Test Date: 04/15/2022

DUT: Dipole 5GHz D5GHzV2; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.216$ S/m; $\epsilon_r = 36.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5750 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5750MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.35 W/kg

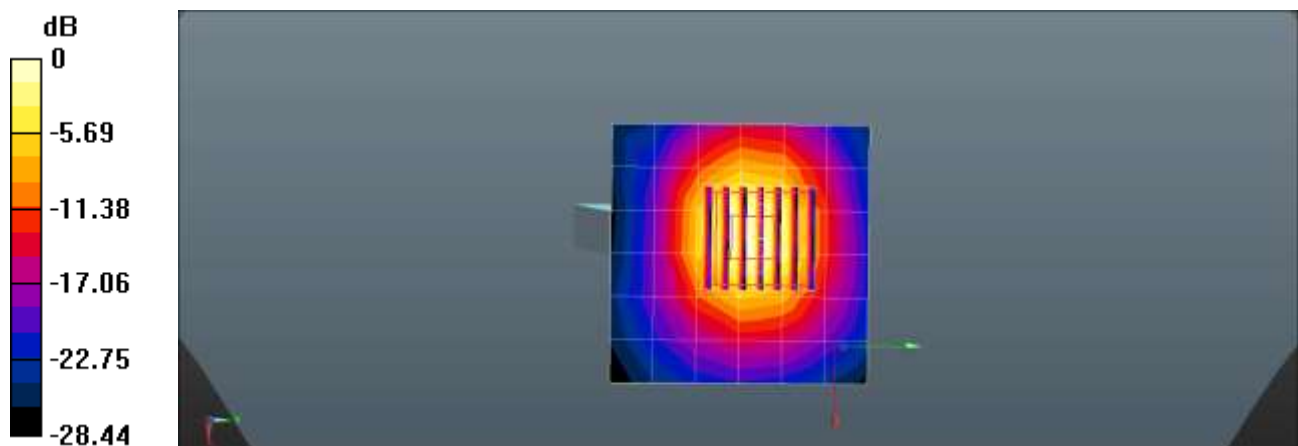
5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 43.89 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 4.33 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 8.35 W/kg = 9.22 dBW/kg

– Extremity

■ Verification Data (1900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.5 °C
Test Date: 04/08/2022

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2;

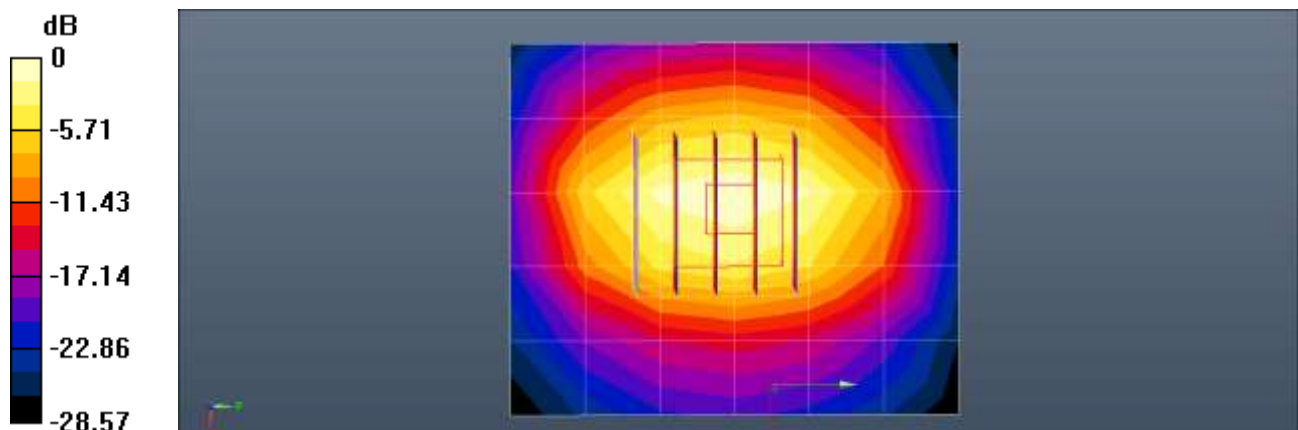
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 40.739$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.51 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.61 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 3.86 W/kg
SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.06 W/kg
Maximum value of SAR (measured) = 2.60 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

- Volume**■ Verification Data (2450 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.5 °C
Test Date: 04/20/2022

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2;

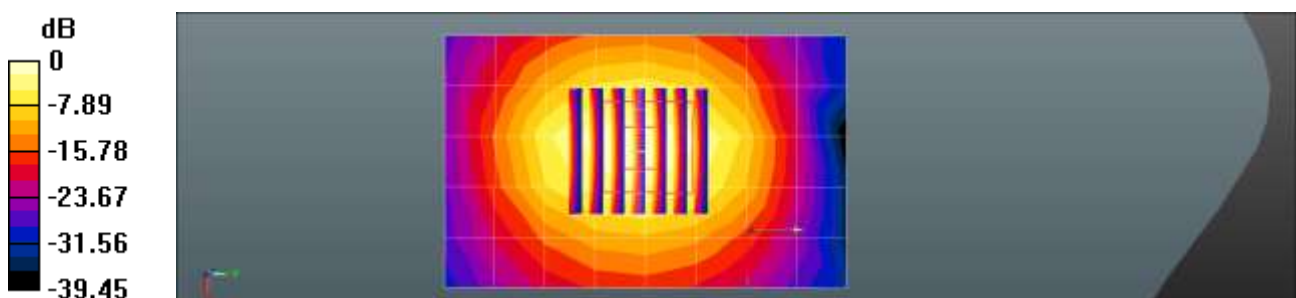
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.834$ S/m; $\epsilon_r = 39.237$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

2450MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.34 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.87 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 6.00 W/kg
SAR(1 g) = 2.81 W/kg; SAR(10 g) = 1.3 W/kg
Maximum value of SAR (measured) = 4.76 W/kg



0 dB = 4.34 W/kg = 6.37 dBW/kg

■ Verification Data (2450 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.2 °C
Test Date: 04/21/2022

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2;

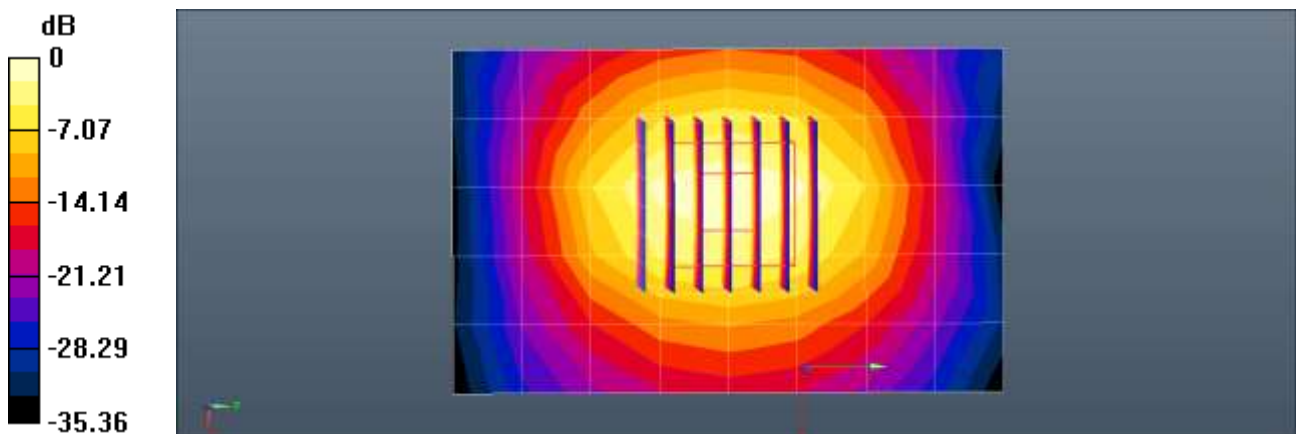
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.834$ S/m; $\epsilon_r = 39.234$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.5, 7.5, 7.5) @ 2450 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- 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)

2450MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.26 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.72 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 5.81 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.29 W/kg
Maximum value of SAR (measured) = 4.63 W/kg



0 dB = 3.56 W/kg = 5.52 dBW/kg

■ **Verification Data (5750 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.0 °C
Test Date: 04/22/2022

DUT: Dipole 5GHz D5GHzV2; Type: D5GHzV2;

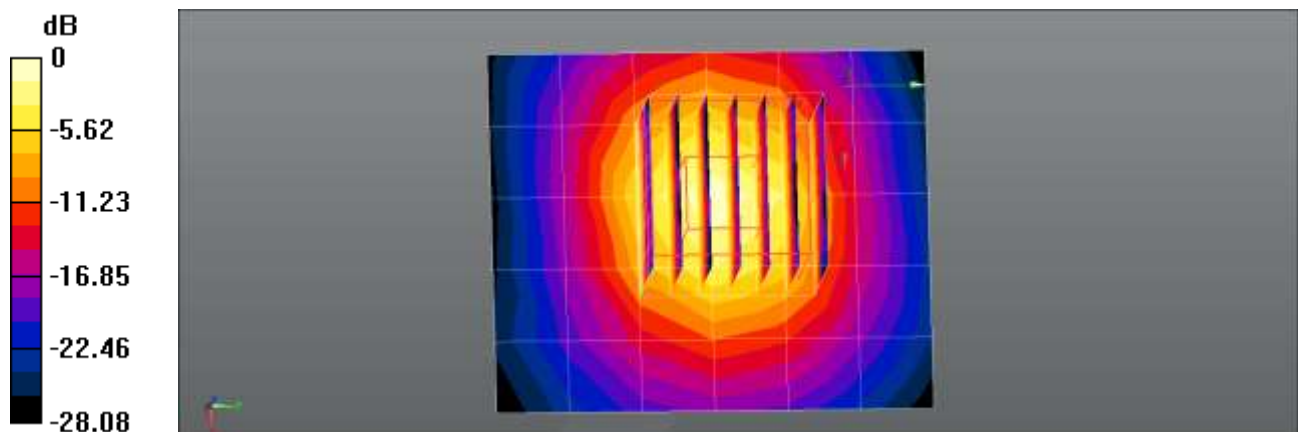
Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.239$ S/m; $\epsilon_r = 36.417$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5750 MHz; Calibrated: 2021-08-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- 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)

5750MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.8 W/kg

5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.53 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 19.5 W/kg
SAR(1 g) = 4.27 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 10.8 W/kg = 10.32 dBW/kg

Appendix D. – SAR Tissue Characterization

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

Ingredients (% by weight)	Frequency (MHz)											
	750		835		1 750		1 900		2 450 – 2 700		3500 - 5 800	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	41.1	51.7	40.45	53.06	52.6	68.8	54.9	70.17	71.88	73.2	65.52	78.66
Salt (NaCl)	1.4	0.9	1.45	0.94	0.4	0.2	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	0.0	0.0
HEC	0.2	0	1.0	1.0	0.0	0.0	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	0.0	0.0
Triton X-100	0.0	0.0	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	47	31	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 KCB 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
13	3972	EX3DV4	Head	750	1014	2021-10-08	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
13	3972	EX3DV4	Head	835	4d165	2021-10-08	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
13	3972	EX3DV4	Head	835	4d165	2021-10-08	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	835	4d165	2021-08-16	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
10	3076	ES3DV3	Head	835	4d165	2021-08-17	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
10	3076	ES3DV3	Head	1800	2d015	2021-08-16	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
10	3076	ES3DV3	Head	1800	2d015	2021-08-16	40.1	1.41	PASS	PASS	PASS	GMSK	PASS	N/A
10	3076	ES3DV3	Head	1900	5d032	2021-08-14	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
10	3076	ES3DV3	Head	1900	5d032	2021-08-14	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
10	3076	ES3DV3	Head	1900	5d032	2021-08-14	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
6	7370	EX3DV4	Head	2450	965	2021-09-10	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	2450	965	2021-09-10	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	2450	965	2021-09-10	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	2450	965	2021-09-10	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	2450	965	2021-09-10	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
17	7702	EX3DV4	Head	2450	965	2021-09-10	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
10	3076	ES3DV3	Head	2600	1106	2021-08-14	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
6	7370	EX3DV4	Head	5250	1107	2021-09-10	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	5600	1107	2021-09-10	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	5750	1107	2021-09-10	35.6	5.24	PASS	PASS	PASS	OFDM	N/A	PASS
6	7370	EX3DV4	Head	5750	1107	2021-09-10	35.6	5.24	PASS	PASS	PASS	OFDM	N/A	PASS

SAR System Validation Summary 1g

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
10	3076	ES3DV3	Head	1900	5d032	2021-08-14	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A

SAR System Validation Summary – Extremity SAR Considerations

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.