

## Appendix B. – SAR Test Plots

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.2 °C  
Ambient Temperature: 20.3 °C  
Test Date: 12/28/2022  
Plot No.: A1

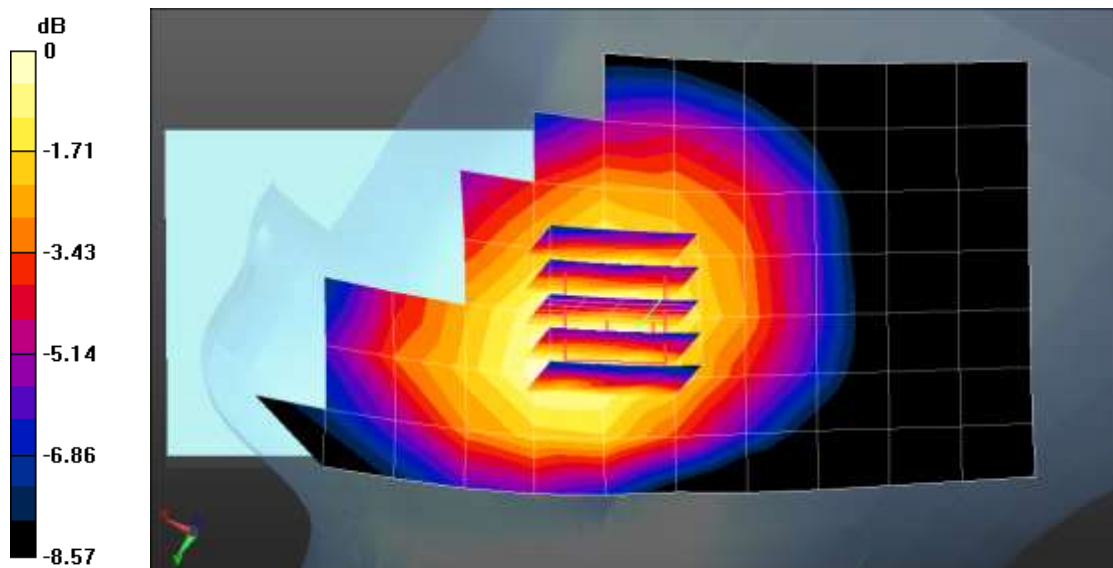
Communication System: UID 0, GSM850 GPRS 3TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.77013  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 42.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(10.23, 10.23, 10.23) @ 836.6 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**GSM850 3Tx Head Right Touch 190ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.294 W/kg

**GSM850 3Tx Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.845 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 0.313 W/kg  
**SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.180 W/kg**  
Maximum value of SAR (measured) = 0.295 W/kg



0 dB = 0.295 W/kg = -5.30 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.3 °C  
Ambient Temperature: 19.4 °C  
Test Date: 01/02/2023  
Plot No.: A2

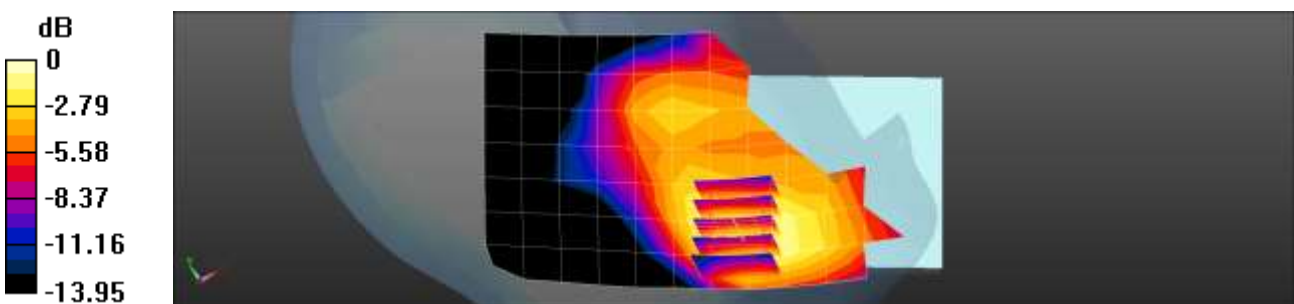
Communication System: UID 0, GSM 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.378$  S/m;  $\epsilon_r = 40.431$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.78, 8.78, 8.78) @ 1880 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**GSM1900 Head Left Touch 661ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.120 W/kg

**GSM1900 Head Left Touch 661ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 1.986 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.157 W/kg  
**SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.067 W/kg**  
Maximum value of SAR (measured) = 0.135 W/kg



0 dB = 0.135 W/kg = -8.70 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/02/2023  
Plot No.: A3

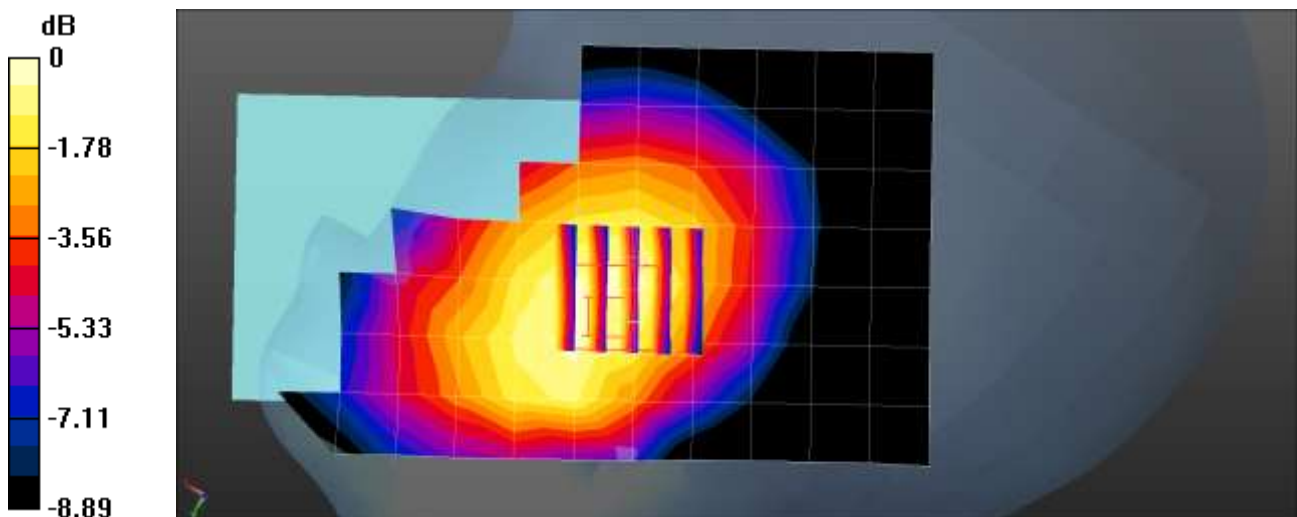
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 41.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(9.57, 9.57, 9.57) @ 836.6 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Left\_20170913; Type: QD000P40CD; Serial: 1803
- 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) = 0.295 W/kg

**UMTS Band 5 Head Right Touch 4183ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.117 V/m; Power Drift = 0.13 dB  
Peak SAR (extrapolated) = 0.344 W/kg  
**SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.196 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: 22.0 °C  
 Ambient Temperature: 22.1 °C  
 Test Date: 12/29/2022  
 Plot No.: A4

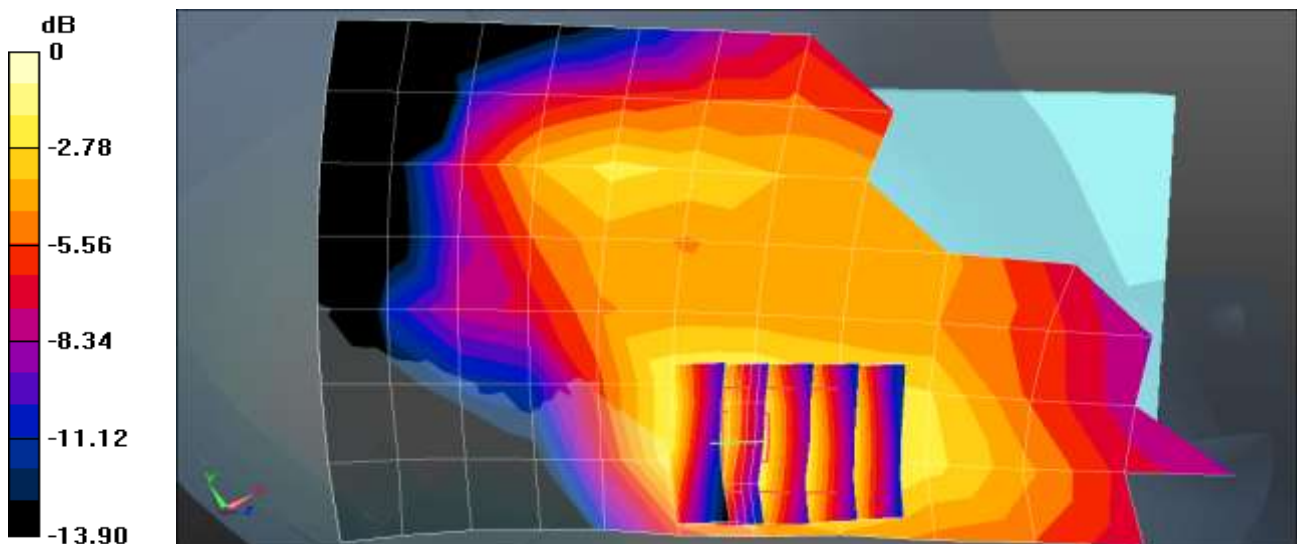
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.329$  S/m;  $\epsilon_r = 39.697$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.43, 8.43, 8.43) @ 1732.4 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- 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) = 0.262 W/kg

**UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 4.962 V/m; Power Drift = -0.15 dB  
 Peak SAR (extrapolated) = 0.305 W/kg  
**SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.130 W/kg**  
 Maximum value of SAR (measured) = 0.262 W/kg



0 dB = 0.262 W/kg = -5.82 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/02/2023  
Plot No.: A5

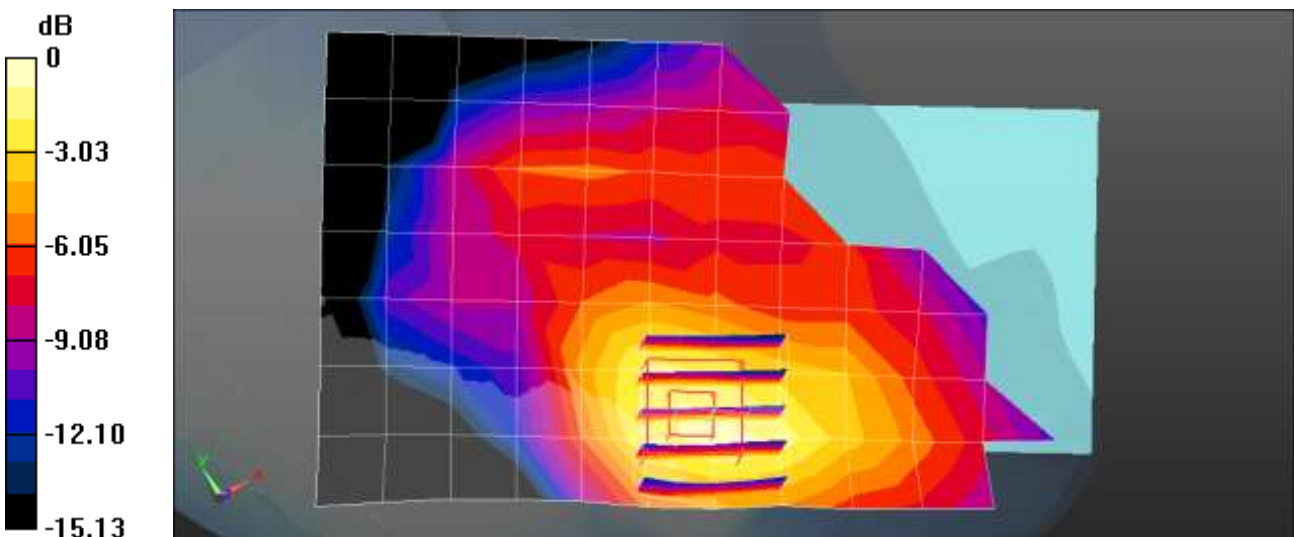
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 40.318$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.03, 8.03, 8.03) @ 1880 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Head Left Touch 9400ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.386 W/kg

**UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.152 V/m; Power Drift = -0.13 dB  
Peak SAR (extrapolated) = 0.474 W/kg  
**SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.188 W/kg**  
Maximum value of SAR (measured) = 0.417 W/kg



0 dB = 0.417 W/kg = -3.80 dBW/kg

C

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.8 °C  
Ambient Temperature: 19.9 °C  
Test Date: 12/28/2022  
Plot No.: A6

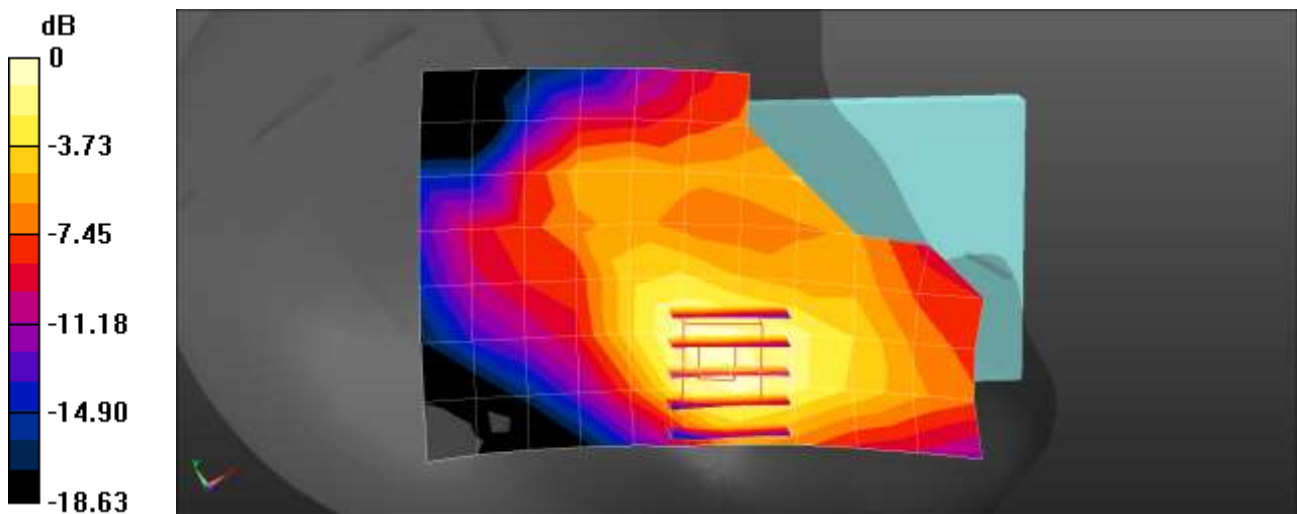
Communication System: UID 0, LTE 2 (0); Frequency: 1860 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.385$  S/m;  $\epsilon_r = 41.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.48, 8.48, 8.48) @ 1860 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 2 Head Left Touch QPSK 20MHz 1RB 0offset 18700ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.308 W/kg

**LTE Band 2 Head Left Touch QPSK 20MHz 1RB 0offset 18700ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.878 V/m; Power Drift = 0.19 dB  
Peak SAR (extrapolated) = 0.400 W/kg  
**SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.164 W/kg**  
Maximum value of SAR (measured) = 0.352 W/kg



0 dB = 0.352 W/kg = -4.53 dBW/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 24.0 °C  
Ambient Temperature: 24.1 °C  
Test Date: 01/04/2023  
Plot No.: A7

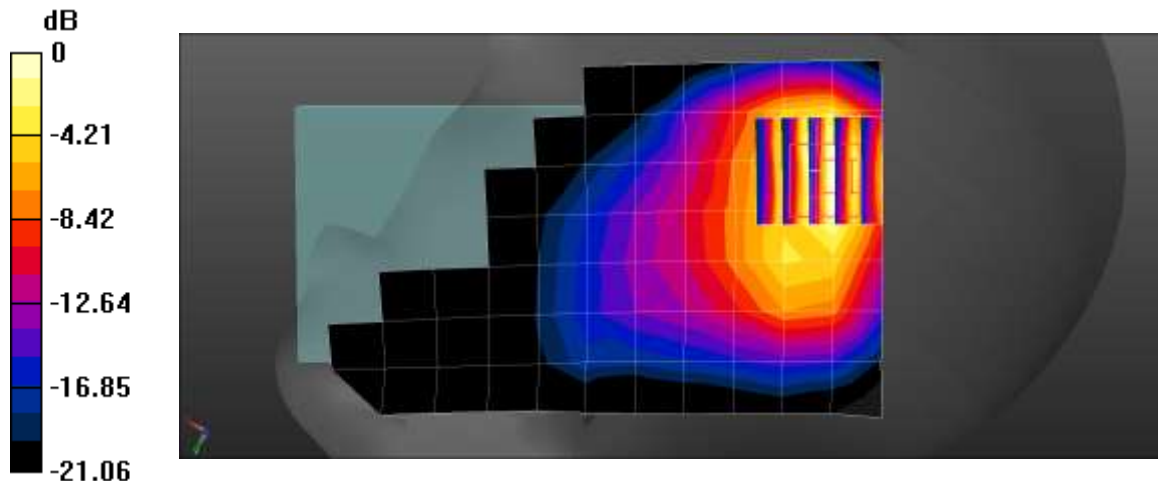
Communication System: UID 0, LTE Band 2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 41.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.57, 8.57, 8.57) @ 1900 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**LTE Band 2 Head Right Tilt QPSK 20MHz 1RB 99offset 19100ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.02 W/kg

**LTE Band 2 Head Right Tilt QPSK 20MHz 1RB 99offset 19100ch/Zoom Scan (5x5x7)/Cube 0:**  
Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 18.97 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 1.26 W/kg  
**SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.277 W/kg**  
Maximum value of SAR (measured) = 0.931 W/kg



0 dB = 0.931 W/kg = -0.31 dBW/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 21.7 °C  
 Ambient Temperature: 21.9 °C  
 Test Date: 01/17/2023  
 Plot No.: A8

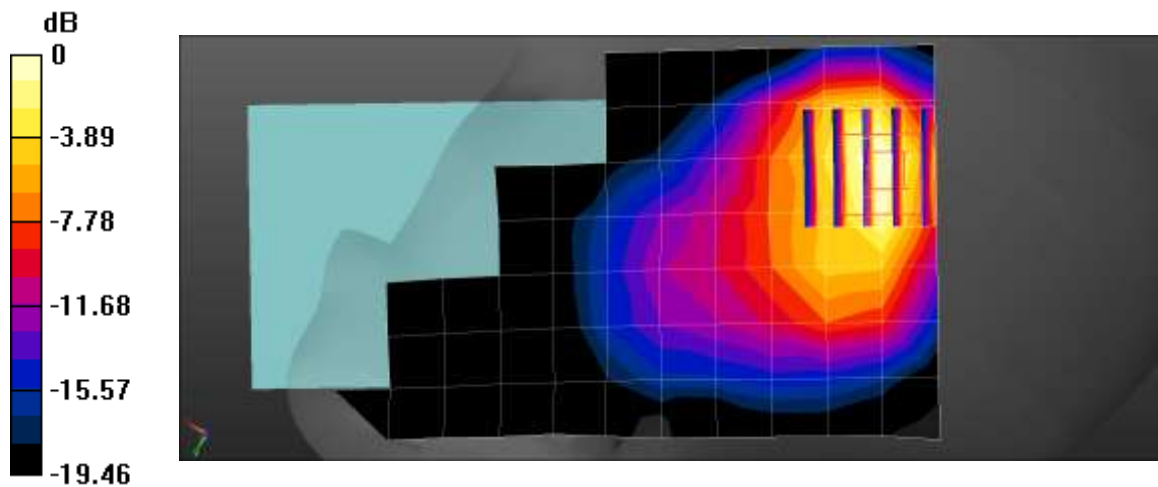
Communication System: UID 0, LTE Band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.328$  S/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.93, 8.93, 8.93) @ 1732.5 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**LTE Band 4 Head Right Tilt QPSK 20MHz 18RB 82offset 20175ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.777 W/kg

**LTE Band 4 Head Right Tilt QPSK 20MHz 18RB 82offset 20175ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 16.18 V/m; Power Drift = -0.06 dB  
 Peak SAR (extrapolated) = 0.931 W/kg  
**SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.217 W/kg**  
 Maximum value of SAR (measured) = 0.692 W/kg



0 dB = 0.692 W/kg = -1.60 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.8 °C  
Ambient Temperature: 19.9 °C  
Test Date: 12/26/2022  
Plot No.: A9

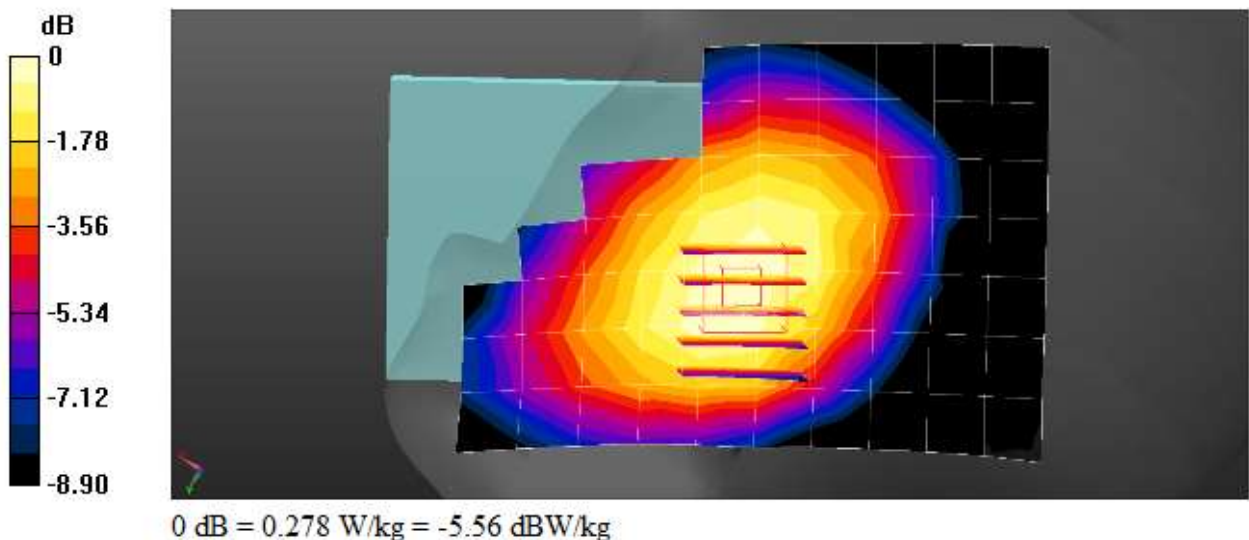
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.802$  S/m;  $\epsilon_r = 44.827$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**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) = 0.273 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 = 5.439 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.296 W/kg  
**SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.194 W/kg**  
Maximum value of SAR (measured) = 0.278 W/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.4 °C  
 Ambient Temperature: 20.5 °C  
 Test Date: 12/27/2022  
 Plot No.: A10

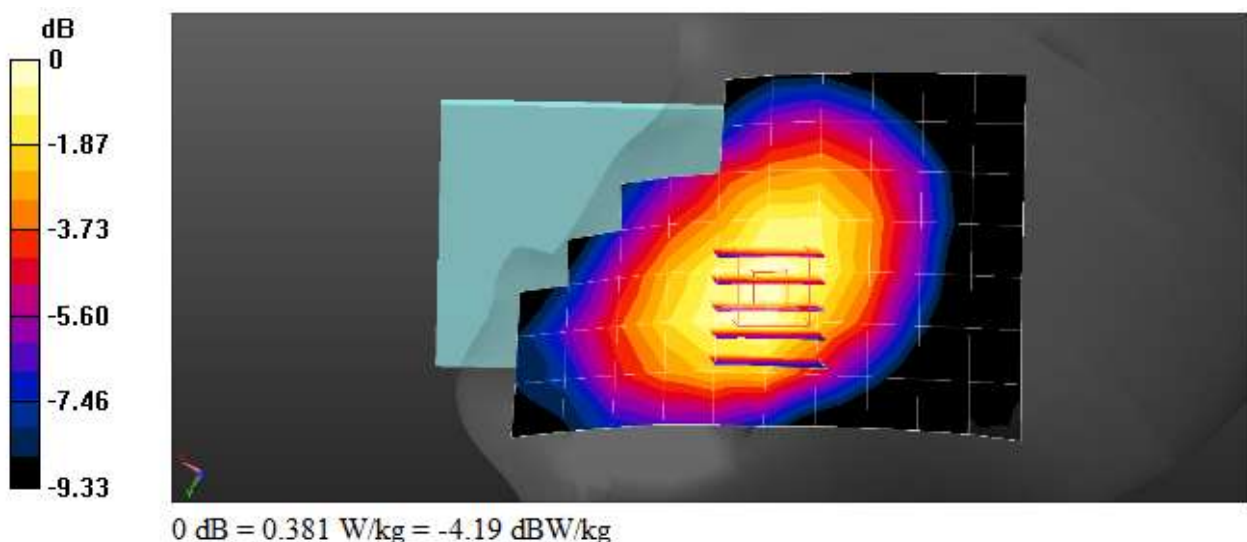
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.926 \text{ S/m}$ ;  $\epsilon_r = 43.031$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(9.64, 9.64, 9.64) @ 831.5 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 26 Head Right Touch QPSK 15MHz 1RB 0offset 26865ch/Area Scan (8x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.376 W/kg

**LTE Band 26 Head Right Touch QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 5.971 V/m; Power Drift = 0.12 dB  
 Peak SAR (extrapolated) = 0.411 W/kg  
**SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.249 W/kg**  
 Maximum value of SAR (measured) = 0.381 W/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 22.5 °C  
 Ambient Temperature: 22.6 °C  
 Test Date: 12/27/2022  
 Plot No.: A11

Phantom Section, TSL	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 41, E-UTRA/TDD	2636.5, 41055	7.59	2.01	37.9

**Hardware Setup**

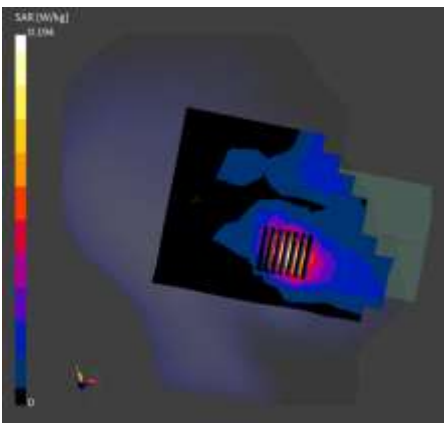
Phantom: Twin-SAM V8.0 (30deg probe tilt) - 2047  
 Probe, Calibration Date: EX3DV4 - SN3968, 2022-09-28  
 DAE, Calibration Date: DAE4 Sn652, 2022-01-24

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.5

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.149	0.150
psSAR10g [W/Kg]	0.072	0.070
Power Drift [dB]	0.06	0.16



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.1 °C  
 Ambient Temperature: 20.3 °C  
 Test Date: 01/02/2023  
 Plot No.: A12

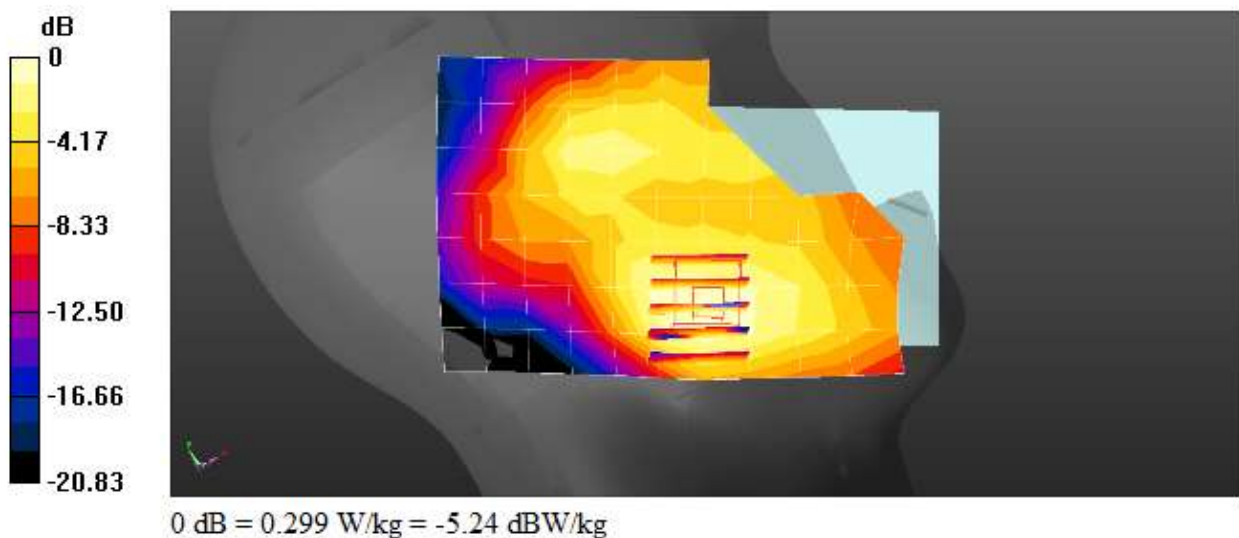
Communication System: UID 0, LTE Band 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.359$  S/m;  $\epsilon_r = 39.533$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.68, 8.68, 8.68) @ 1770 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 66 Head Left Touch QPSK 20MHz 1RB 49offset 132572ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.277 W/kg

**LTE Band 66 Head Left Touch QPSK 20MHz 1RB 49offset 132572ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 6.359 V/m; Power Drift = 0.18 dB  
 Peak SAR (extrapolated) = 0.366 W/kg  
**SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.138 W/kg**  
 Maximum value of SAR (measured) = 0.299 W/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/09/2023  
Plot No.: A13

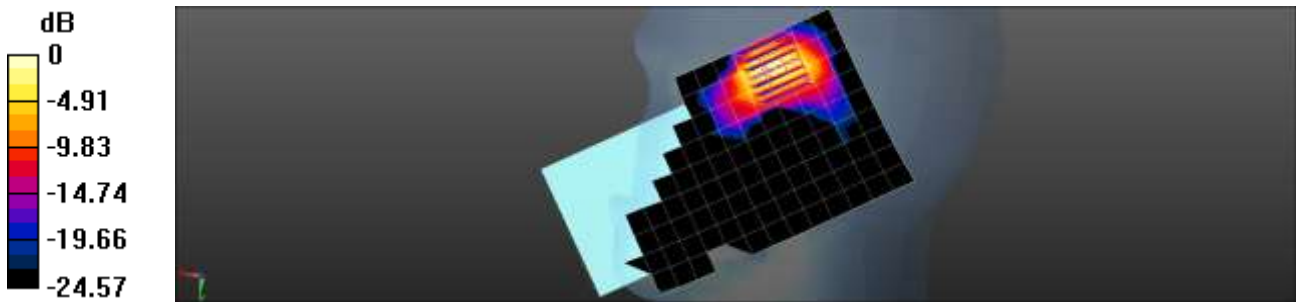
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.81$  S/m;  $\epsilon_r = 39.285$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.28, 8.28, 8.28) @ 2437 MHz; Calibrated: 2022-11-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2022-07-18
- 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)

**802.11b Head Right Touch 1Mbps 6ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.280 W/kg

**802.11b Head Right Touch 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 1.707 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 0.463 W/kg  
**SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.073 W/kg**  
Maximum value of SAR (measured) = 0.343 W/kg



0 dB = 0.343 W/kg = -4.65 dBW/kg



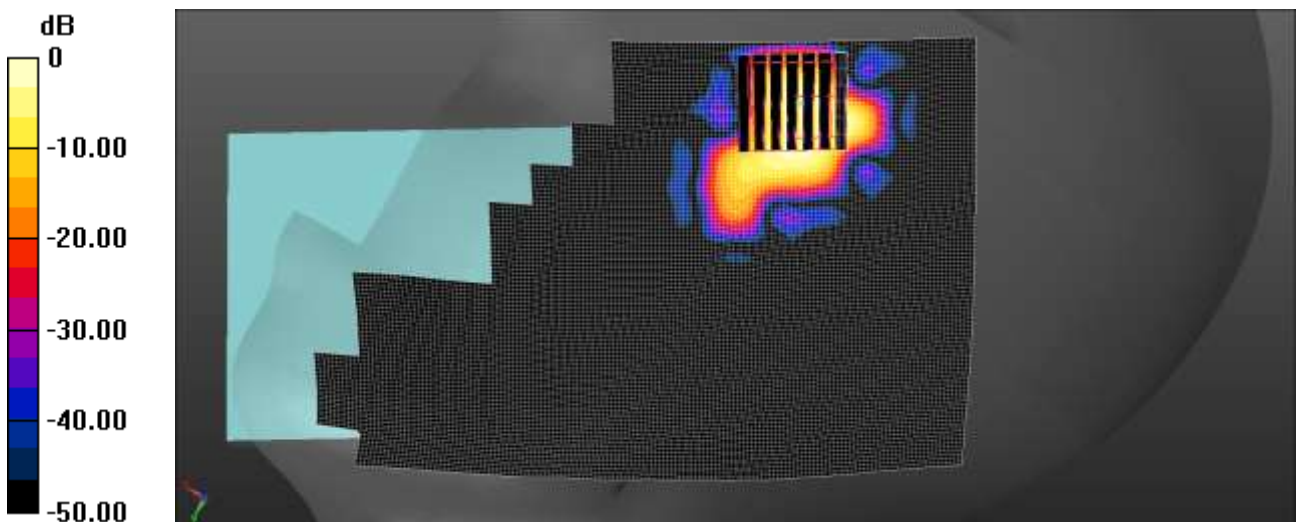
Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 21.4 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: 01/09/2023  
 Plot No.: A14  
 Communication System: UID 0, WIFI 5GHz (0); Frequency: 5775 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.255 \text{ S/m}$ ;  $\epsilon_r = 35.269$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.2, 5.2, 5.2) @ 5775 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**802.11ac80 Head Right Touch MCS0 155ch/Area Scan (111x201x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$   
 Maximum value of SAR (interpolated) = 0.372 W/kg

**802.11ac80 Head Right Touch MCS0 155ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$   
 Reference Value = 0 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 0.375 W/kg  
**SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.019 W/kg**  
 Maximum value of SAR (measured) = 0.217 W/kg



0 dB = 0.372 W/kg = -4.30 dBW/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.3 °C  
 Ambient Temperature: 20.4 °C  
 Test Date: 01/11/2023  
 Plot No.: A15

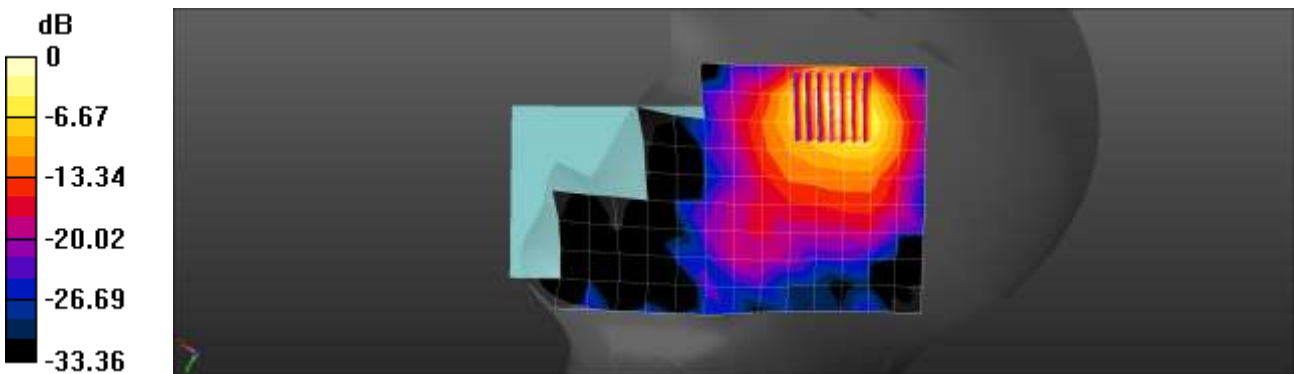
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.852 \text{ S/m}$ ;  $\epsilon_r = 38.749$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2480 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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)

**Bluetooth Head Right Touch DH5 78ch/Area Scan (10x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$   
 Maximum value of SAR (measured) = 0.337 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 = 3.350 V/m; Power Drift = 0.12 dB  
 Peak SAR (extrapolated) = 0.646 W/kg  
**SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.102 W/kg**  
 Maximum value of SAR (measured) = 0.484 W/kg



0 dB = 0.484 W/kg = -3.15 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 21.2 °C  
 Ambient Temperature: 21.3 °C  
 Test Date: 01/12/2023  
 Plot No.: A16

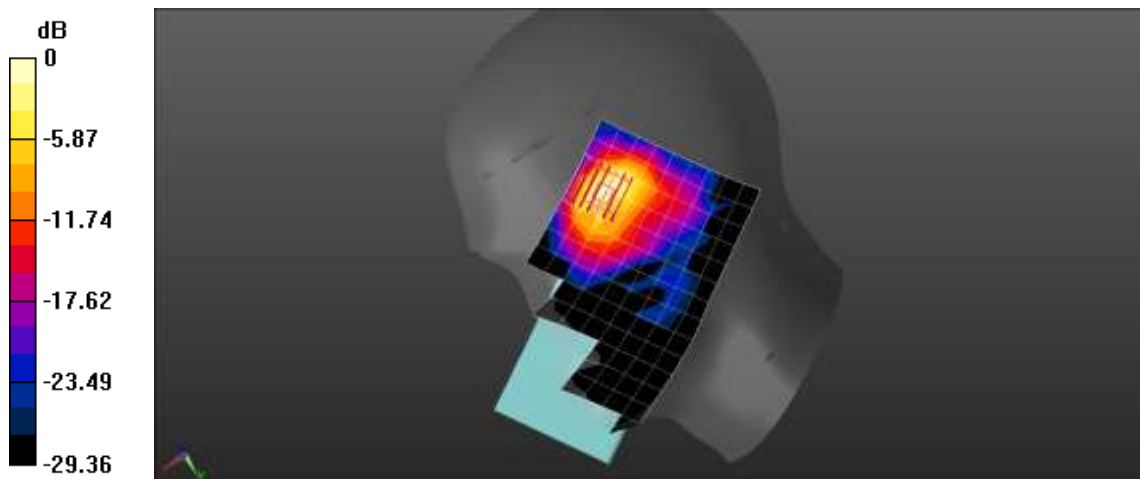
Communication System: UID 0, Bluetooth Low Energy; Frequency: 2440 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.818 \text{ S/m}$ ;  $\epsilon_r = 38.302$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2440 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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)

**Bluetooth LE Head Right Touch 1M 255Mbps 19ch/Area Scan (10x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$   
 Maximum value of SAR (measured) = 0.609 W/kg

**Bluetooth LE Head Right Touch 1M 255Mbps 19ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 5.096 V/m; Power Drift = -0.13 dB  
 Peak SAR (extrapolated) = 0.993 W/kg  
**SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.139 W/kg**  
 Maximum value of SAR (measured) = 0.751 W/kg



0 dB = 0.751 W/kg = -1.24 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.2 °C  
Ambient Temperature: 20.3 °C  
Test Date: 12/28/2022  
Plot No.: B1

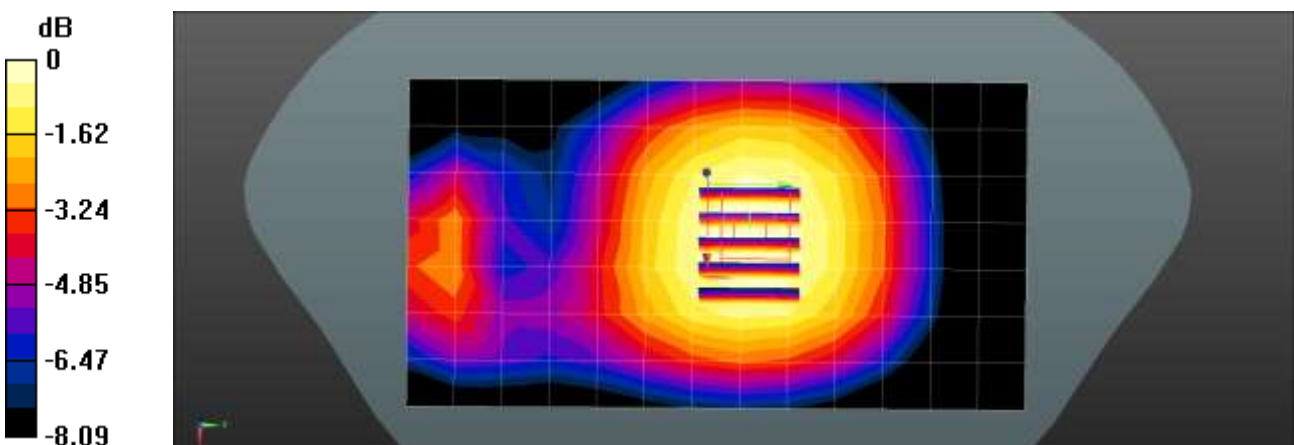
Communication System: UID 0, GSM850 GPRS 3TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.77013  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 42.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(10.23, 10.23, 10.23) @ 836.6 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**GSM850 3Tx Bodyworn Front 190ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.325 W/kg

**GSM850 3Tx Bodyworn Front 190ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 19.94 V/m; Power Drift = -0.06 dB  
Peak SAR (extrapolated) = 0.375 W/kg  
**SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.208 W/kg**  
Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg = -4.80 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.3 °C  
Ambient Temperature: 19.4 °C  
Test Date: 01/02/2023  
Plot No.: B2

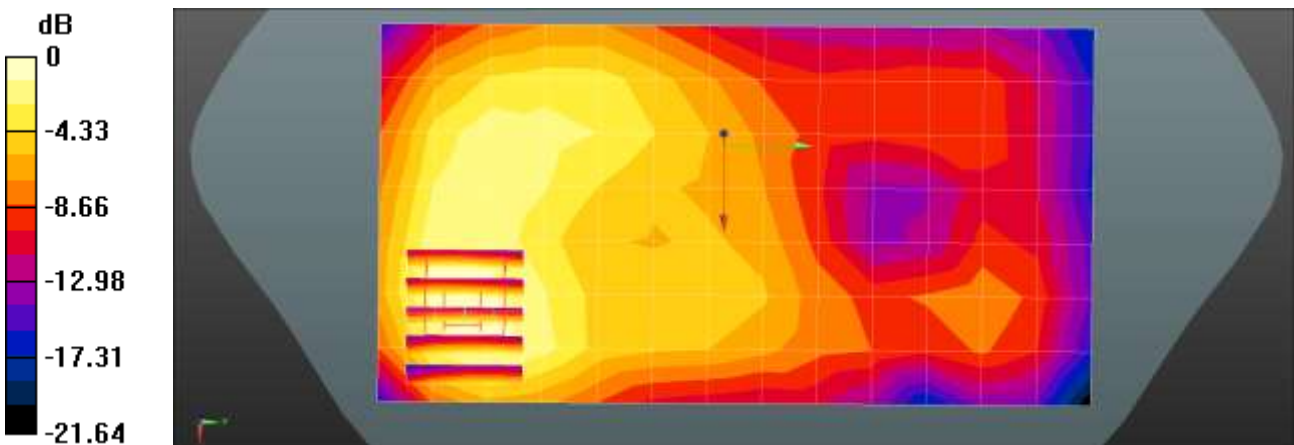
Communication System: UID 0, GSM 1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.378$  S/m;  $\epsilon_r = 40.431$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.78, 8.78, 8.78) @ 1880 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**GSM1900 Bodyworn Rear 661ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.286 W/kg

**GSM1900 Bodyworn Rear 661ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.461 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 0.391 W/kg  
**SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.133 W/kg**  
Maximum value of SAR (measured) = 0.324 W/kg



0 dB = 0.324 W/kg = -4.89 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/02/2023  
Plot No.: B3

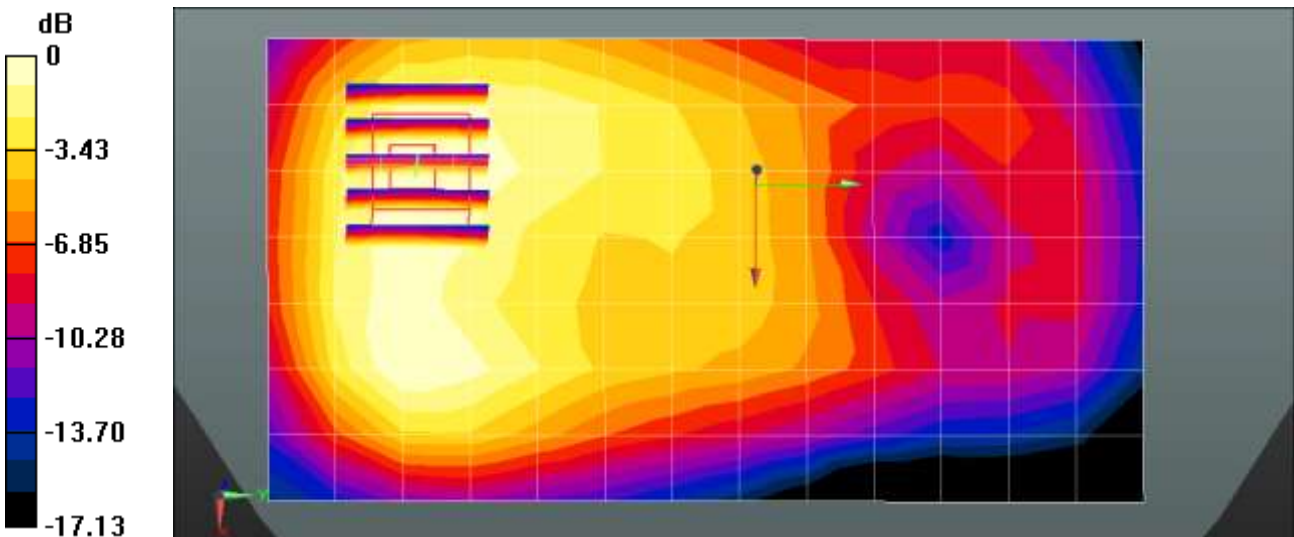
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 40.318$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.03, 8.03, 8.03) @ 1880 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 BodyWorn Rear 9400ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.640 W/kg

**UMTS Band 2 BodyWorn Rear 9400ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 14.07 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 0.741 W/kg  
**SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.281 W/kg**  
Maximum value of SAR (measured) = 0.640 W/kg



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

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 22.0 °C  
Ambient Temperature: 22.1 °C  
Test Date: 12/29/2022  
Plot No.: B4

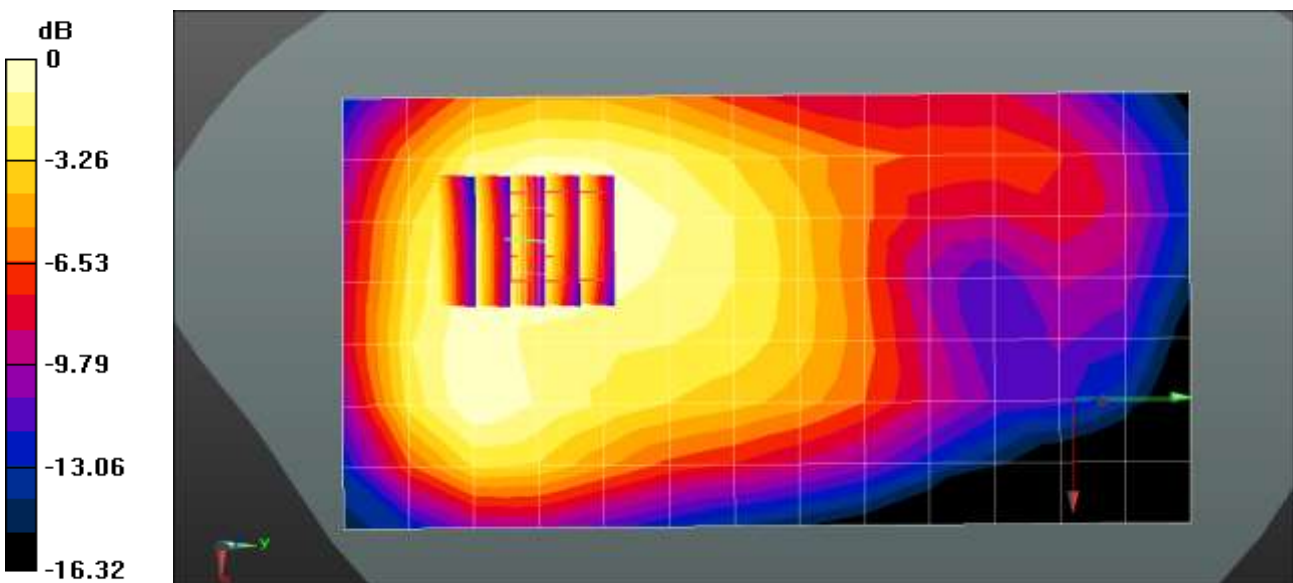
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.329$  S/m;  $\epsilon_r = 39.697$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.43, 8.43, 8.43) @ 1732.4 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 4 BodyWorn Rear 1412ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.556 W/kg

**UMTS Band 4 BodyWorn Rear 1412ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.00 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 0.648 W/kg  
**SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.274 W/kg**  
Maximum value of SAR (measured) = 0.561 W/kg



0 dB = 0.506 W/kg = -2.96 dBW/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.3 °C  
Test Date: 12/28/2022  
Plot No.: B5

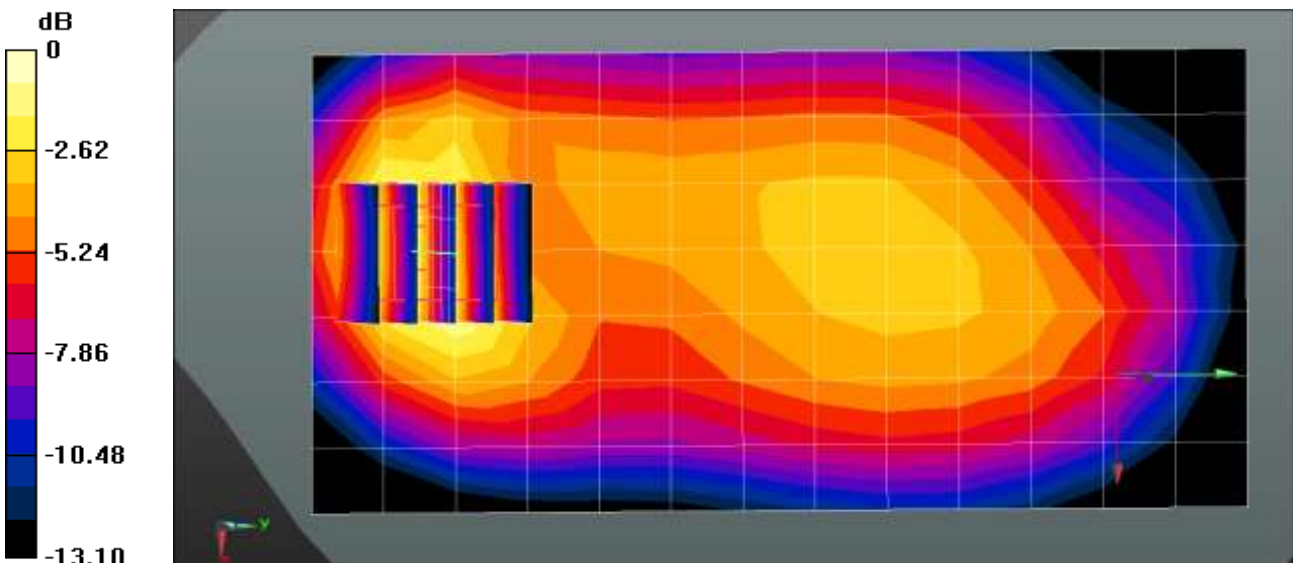
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 41.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(9.57, 9.57, 9.57) @ 836.6 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Left\_20170913; Type: QD000P40CD; Serial: 1803
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 5 Body Rear 4183ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.412 W/kg

**UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 17.00 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.576 W/kg  
**SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.212 W/kg**  
Maximum value of SAR (measured) = 0.493 W/kg



0 dB = 0.493 W/kg = -3.07 dBW/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 19.8 °C  
 Ambient Temperature: 19.9 °C  
 Test Date: 12/28/2022  
 Plot No.: B6

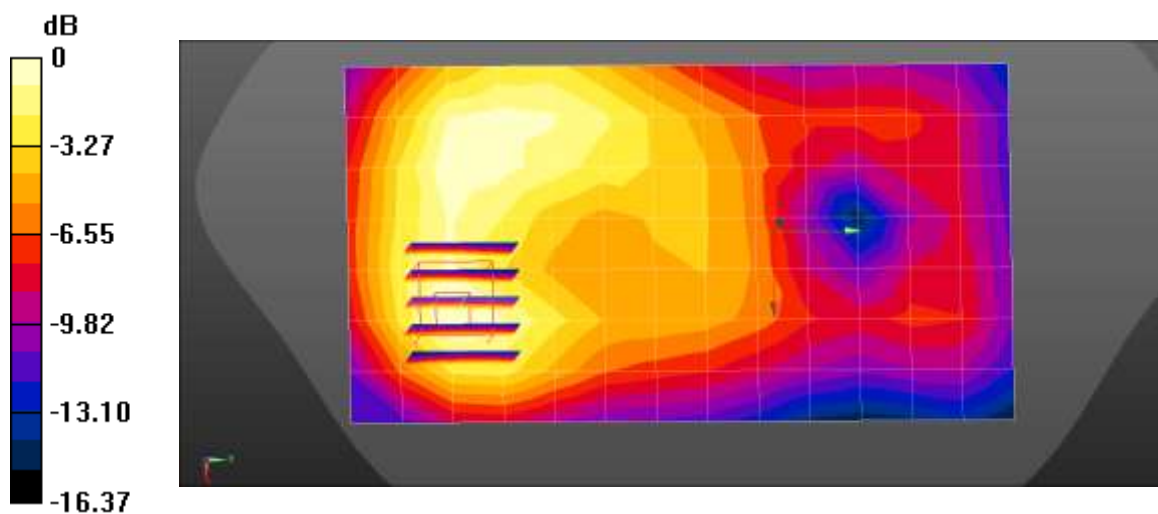
Communication System: UID 0, LTE 2 (0); Frequency: 1860 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.385 \text{ S/m}$ ;  $\epsilon_r = 41.405$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.48, 8.48, 8.48) @ 1860 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 2 BodyWorn Rear QPSK 20MHz 1RB 49offset 18700ch/Area Scan (8x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.575 W/kg

**LTE Band 2 BodyWorn Rear QPSK 20MHz 1RB 49offset 18700ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 12.73 V/m; Power Drift = 0.10 dB  
 Peak SAR (extrapolated) = 0.671 W/kg  
**SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.230 W/kg**  
 Maximum value of SAR (measured) = 0.567 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 24.0 °C  
Ambient Temperature: 24.1 °C  
Test Date: 01/04/2023  
Plot No.: B7

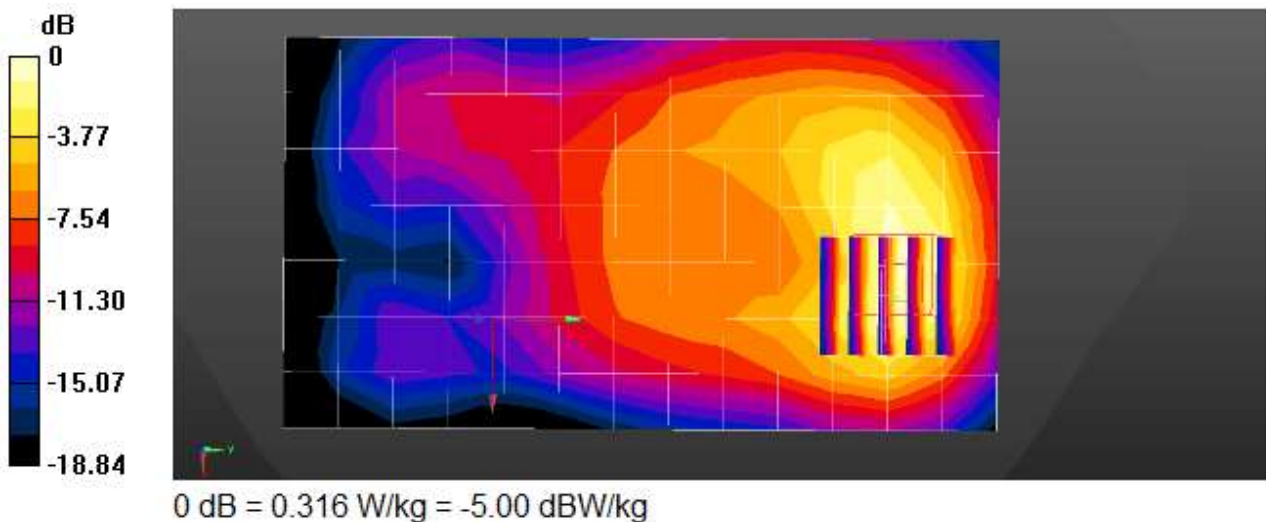
Communication System: UID 0, LTE Band 2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 41.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.57, 8.57, 8.57) @ 1900 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**LTE Band 2 Body Rear QPSK 20MHz 1RB 99offset 19100ch/Area Scan (8x14x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.268 W/kg

**LTE Band 2 Body Rear QPSK 20MHz 1RB 99offset 19100ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.108 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = 0.390 W/kg  
**SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.117 W/kg**  
Maximum value of SAR (measured) = 0.316 W/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 21.7 °C  
Ambient Temperature: 21.9 °C  
Test Date: 01/17/2023  
Plot No.: B8

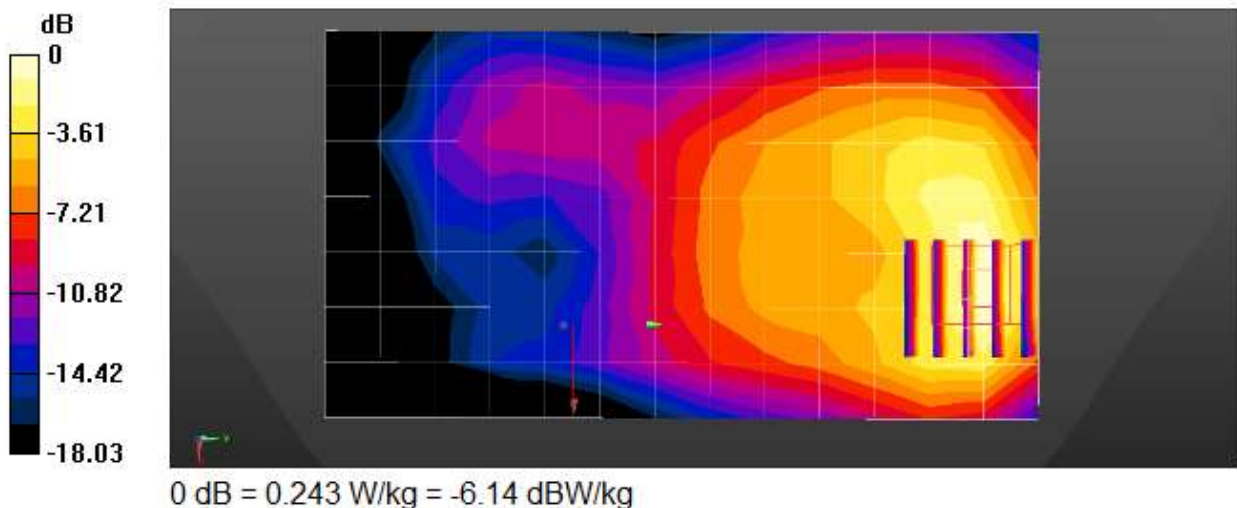
Communication System: UID 0, LTE Band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.328$  S/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.93, 8.93, 8.93) @ 1732.5 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**LTE Band 4 Bodyworn Rear QPSK 20MHz 1RB 99offset 20175ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.244 W/kg

**LTE Band 4 Bodyworn Rear QPSK 20MHz 1RB 99offset 20175ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.630 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 0.290 W/kg  
**SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.096 W/kg**  
Maximum value of SAR (measured) = 0.243 W/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.8 °C  
Ambient Temperature: 19.9 °C  
Test Date: 12/26/2022  
Plot No.: B9

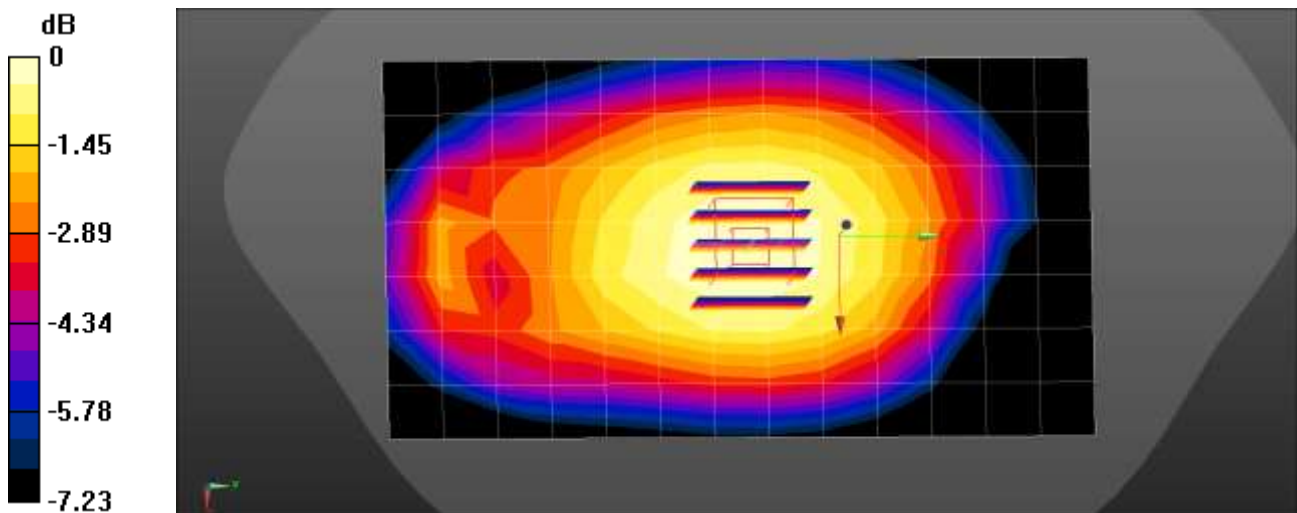
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.802$  S/m;  $\epsilon_r = 44.827$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 12 BodyWorn Front QPSK 10MHz 1RB 0offset 23095ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.262 W/kg

**LTE Band 12 BodyWorn Front QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 18.97 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.290 W/kg  
**SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.176 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  
 Liquid Temperature: 20.4 °C  
 Ambient Temperature: 20.5 °C  
 Test Date: 12/27/2022  
 Plot No.: B10

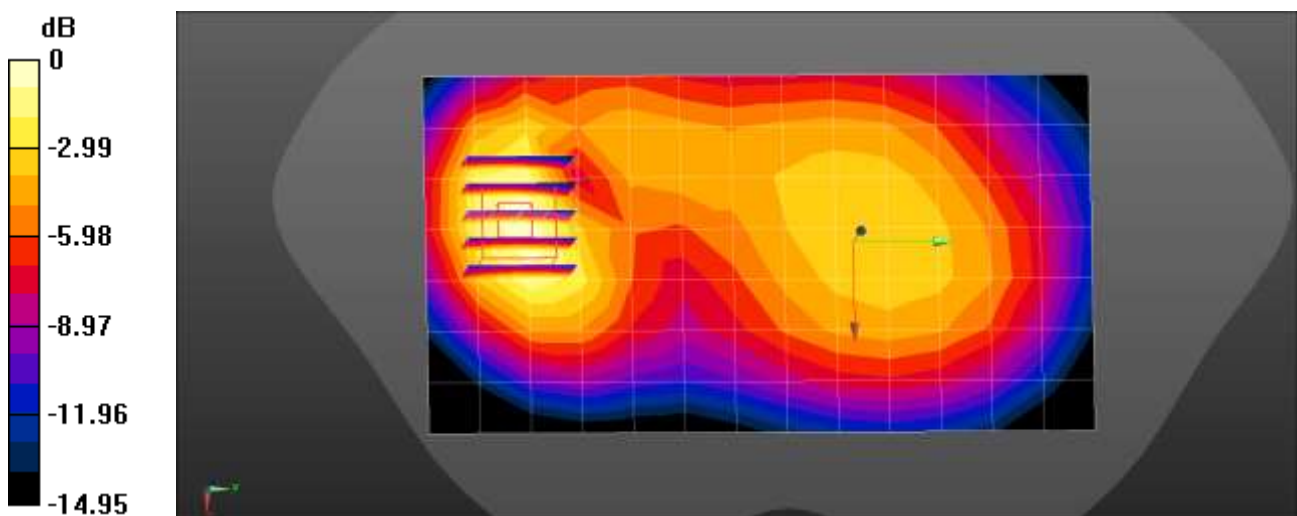
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.926 \text{ S/m}$ ;  $\epsilon_r = 43.031$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(9.64, 9.64, 9.64) @ 831.5 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 26 BodyWorn Rear QPSK 15MHz 1RB 0offset 26865ch/Area Scan (8x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.455 W/kg

**LTE Band 26 BodyWorn Rear QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 14.43 V/m; Power Drift = 0.10 dB  
 Peak SAR (extrapolated) = 0.543 W/kg  
**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.211 W/kg**  
 Maximum value of SAR (measured) = 0.474 W/kg



0 dB = 0.474 W/kg = -3.24 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 22.5 °C  
 Ambient Temperature: 22.6 °C  
 Test Date: 12/27/2022  
 Plot No.: B11

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 41, E-UTRA/TDD	2636.5, 41055	7.59	2.01	37.9

**Hardware Setup**

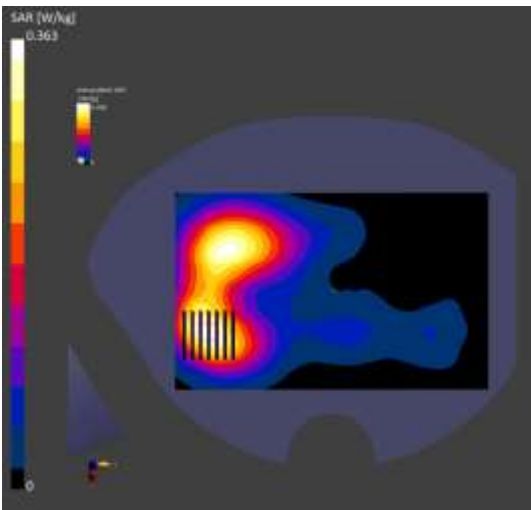
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2022-09-28	DAE4 Sn652, 2022-01-24

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.215	0.221
psSAR10g [W/Kg]	0.117	0.113
Power Drift [dB]	-0.05	-0.18





Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.1 °C  
 Ambient Temperature: 20.3 °C  
 Test Date: 01/02/2023  
 Plot No.: B12

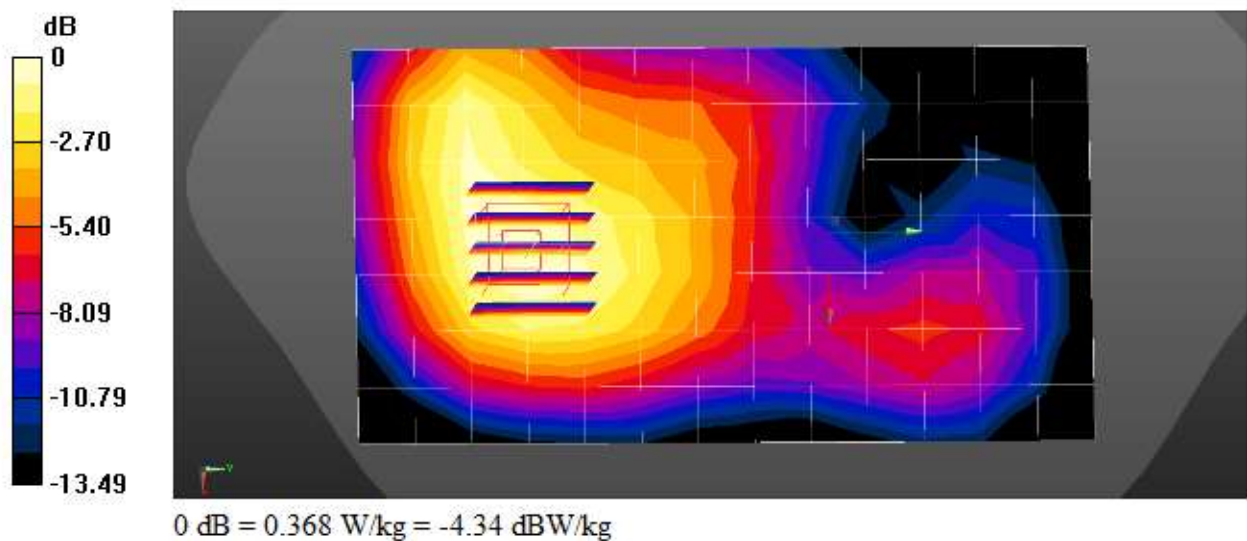
Communication System: UID 0, LTE Band 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.359$  S/m;  $\epsilon_r = 39.533$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.68, 8.68, 8.68) @ 1770 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 66 BodyWorn Front QPSK 20MHz 1RB 49offset 132572ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.360 W/kg

**LTE Band 66 BodyWorn Front QPSK 20MHz 1RB 49offset 132572ch/Zoom Scan (5x5x7)/Cube 0:**  
 Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 8.367 V/m; Power Drift = -0.00 dB  
 Peak SAR (extrapolated) = 0.422 W/kg  
**SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.176 W/kg**  
 Maximum value of SAR (measured) = 0.368 W/kg





Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.6 °C  
 Ambient Temperature: 20.7 °C  
 Test Date: 01/09/2023  
 Plot No.: B13

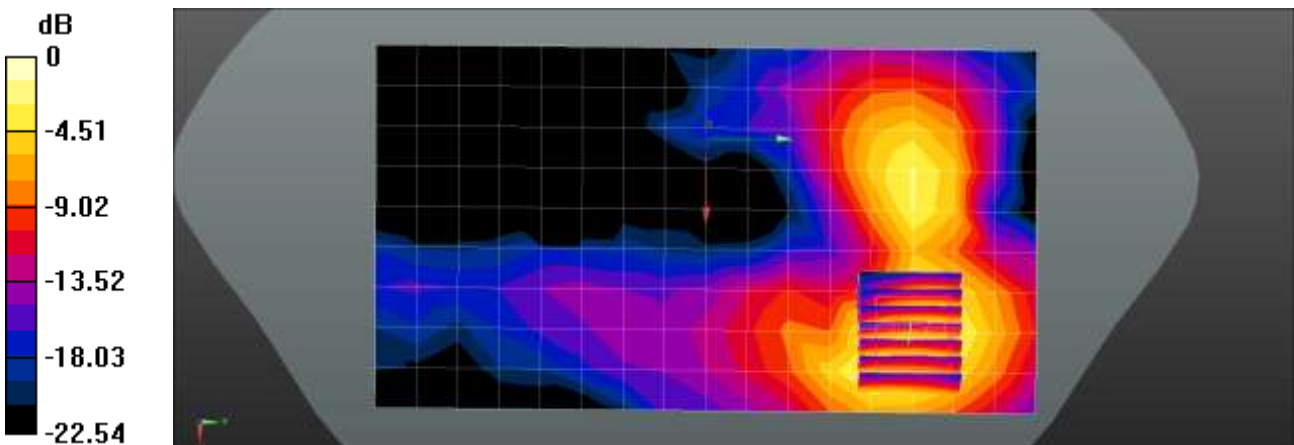
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.84$  S/m;  $\epsilon_r = 39.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.28, 8.28, 8.28) @ 2462 MHz; Calibrated: 2022-11-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2022-07-18
- 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)

**802.11b Bodyworn Rear 1Mbps 11ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 0.138 W/kg

**802.11b Bodyworn Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 0 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 0.171 W/kg  
**SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.049 W/kg**  
 Maximum value of SAR (measured) = 0.143 W/kg



0 dB = 0.143 W/kg = -8.45 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 18.8 °C  
 Ambient Temperature: 18.9 °C  
 Test Date: 01/04/2023  
 Plot No.: B14

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	WLAN 5GHz	5300.0, 60	5.29	4.86	36.3

**Hardware Setup**

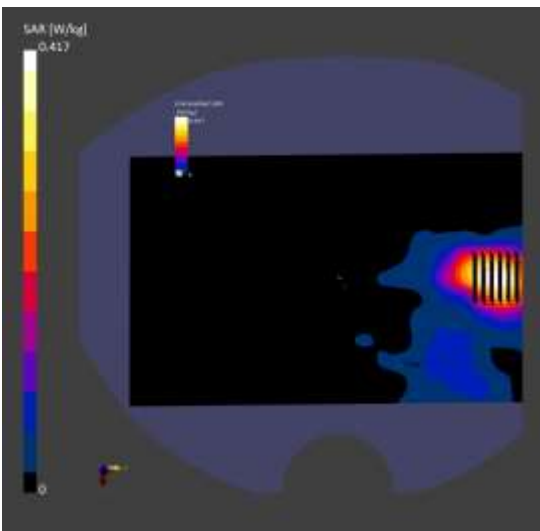
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.197	0.189
psSAR10g [W/Kg]	0.077	0.068
Power Drift [dB]	-0.17	-0.17



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.3 °C  
Ambient Temperature: 20.4 °C  
Test Date: 01/11/2023  
Plot No.: B15

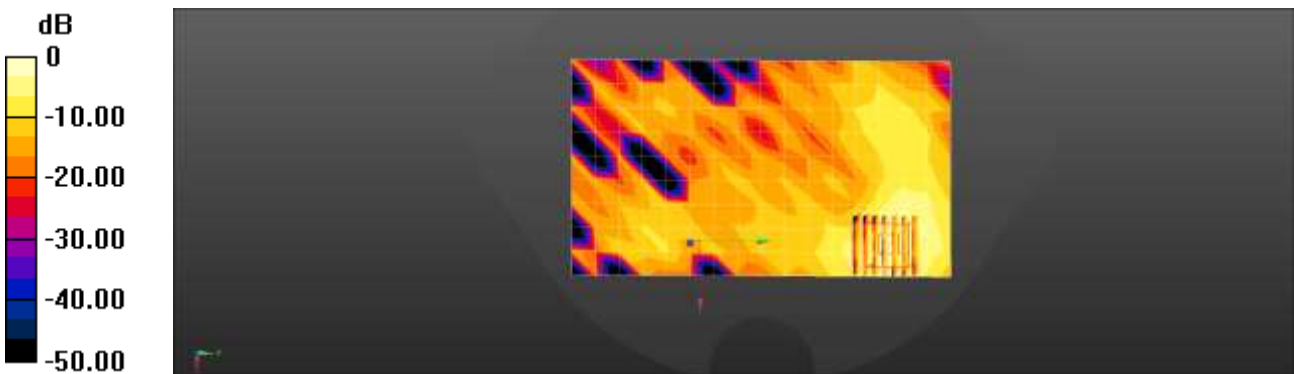
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2480$  MHz;  $\sigma = 1.852$  S/m;  $\epsilon_r = 38.749$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2480 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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)

**Bluetooth Bodyworn Rear DH5 78ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.0467 W/kg

**Bluetooth Bodyworn Rear DH5 78ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 0.8400 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 0.0690 W/kg  
**SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.017 W/kg**  
Maximum value of SAR (measured) = 0.0556 W/kg



0 dB = 0.0556 W/kg = -12.55 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.3 °C  
Test Date: 01/12/2023  
Plot No.: B16

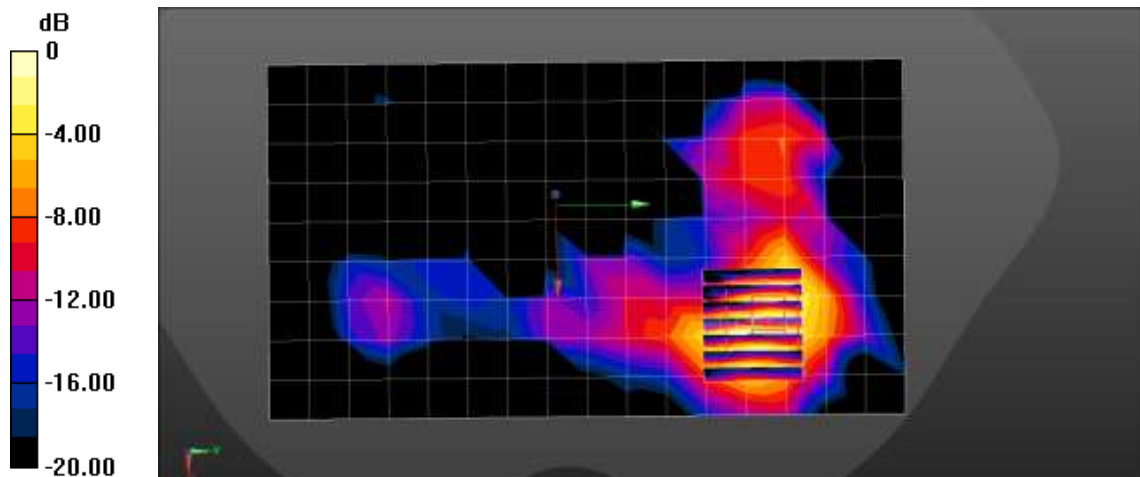
Communication System: UID 0, Bluetooth Low Energy; Frequency: 2440 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.818$  S/m;  $\epsilon_r = 38.302$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2440 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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)

**Bluetooth LE Bodyworn Rear 1M 255Mbps 19ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.0857 W/kg

**Bluetooth LE Bodyworn Rear 1M 255Mbps 19ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 0.6880 V/m; Power Drift = -0.18 dB  
Peak SAR (extrapolated) = 0.137 W/kg  
**SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.026 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 45.8%  
Maximum value of SAR (measured) = 0.0886 W/kg



0 dB = 0.0886 W/kg = -10.53 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.2 °C  
Ambient Temperature: 20.3 °C  
Test Date: 12/28/2022  
Plot No.: C1

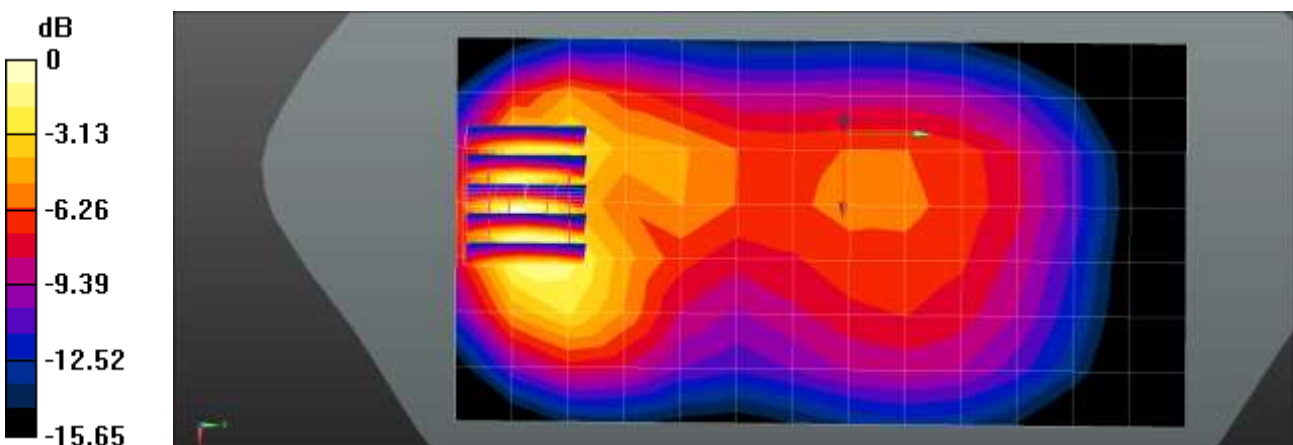
Communication System: UID 0, GSM850 GPRS 3TX (0); Frequency: 848.8 MHz;Duty Cycle: 1:2.77013  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.9$  S/m;  $\epsilon_r = 41.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(10.23, 10.23, 10.23) @ 848.8 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**GSM850 3Tx Body Rear 251ch/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.15 W/kg

**GSM850 3Tx Body Rear 251ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 18.97 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 1.58 W/kg  
**SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.496 W/kg**  
Smallest distance from peaks to all points 3 dB below = 9.6 mm  
Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.3 °C  
Ambient Temperature: 19.4 °C  
Test Date: 01/02/2023  
Plot No.: C2

Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz;Duty Cycle: 1:4.14954  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.378$  S/m;  $\epsilon_r = 40.431$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.78, 8.78, 8.78) @ 1880 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**GSM1900 2Tx Body Bottom 661ch/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.967 W/kg

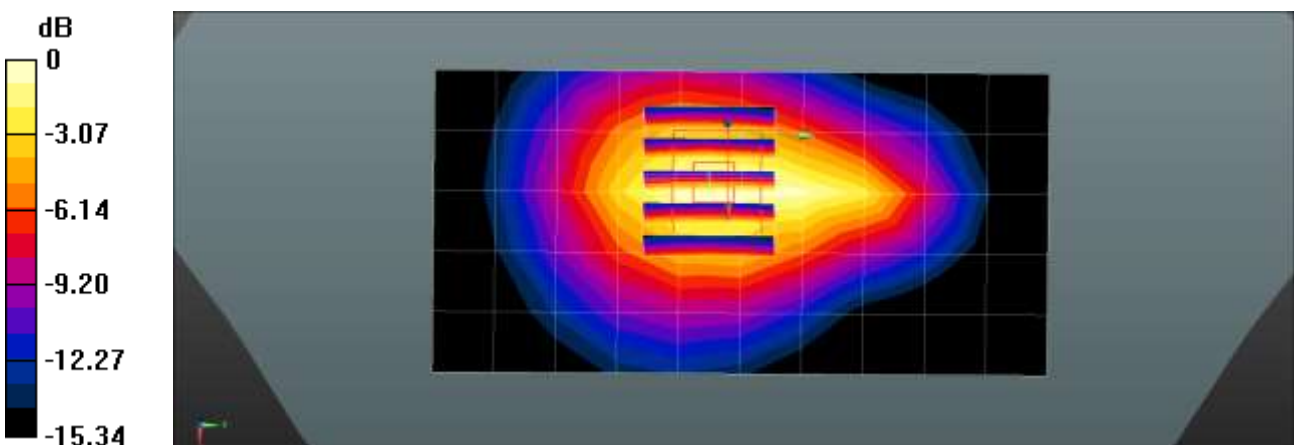
**GSM1900 2Tx Body Bottom 661ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.68 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.430 W/kg**

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/02/2023  
Plot No.: C3

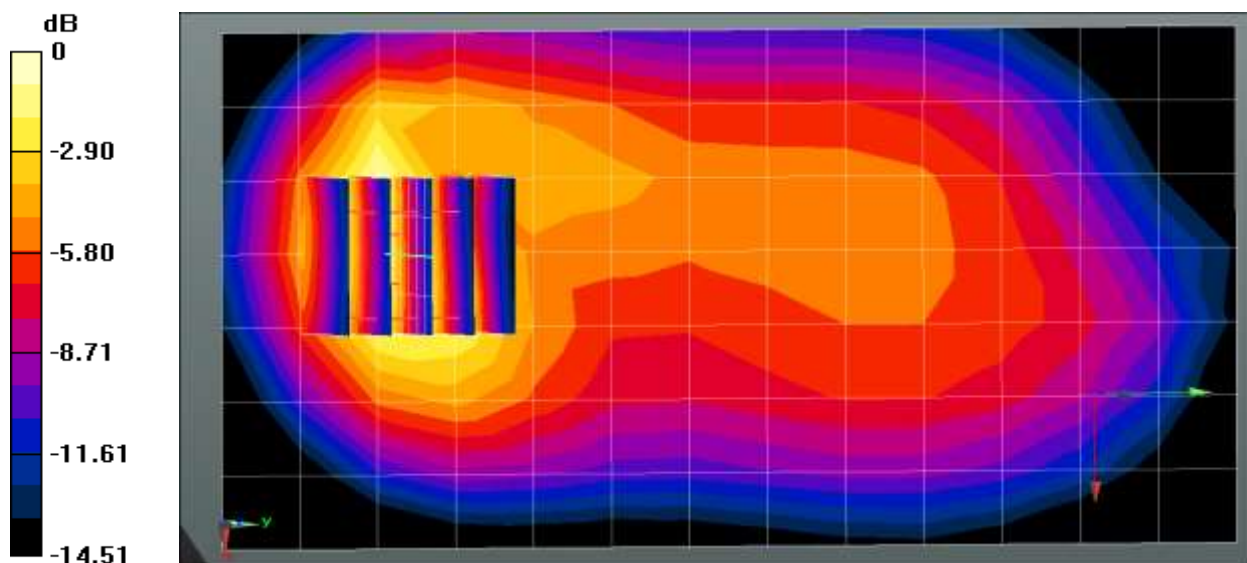
Communication System: UID 0, WCDMA850 (0); Frequency: 846.6 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.909$  S/m;  $\epsilon_r = 41.375$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(9.57, 9.57, 9.57) @ 846.6 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Left\_20170913; Type: QD000P40CD; Serial: 1803
- 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) = 0.953 W/kg

**UMTS Band 5 Body Rear 4233ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 18.02 V/m; Power Drift = -0.11 dB  
Peak SAR (extrapolated) = 1.15 W/kg  
**SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.382 W/kg**  
Smallest distance from peaks to all points 3 dB below = 12.2 mm  
Maximum value of SAR (measured) = 0.979 W/kg



0 dB = 0.979 W/kg = -0.09 dBW/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 22.0 °C  
 Ambient Temperature: 22.1 °C  
 Test Date: 12/29/2022  
 Plot No.: C4

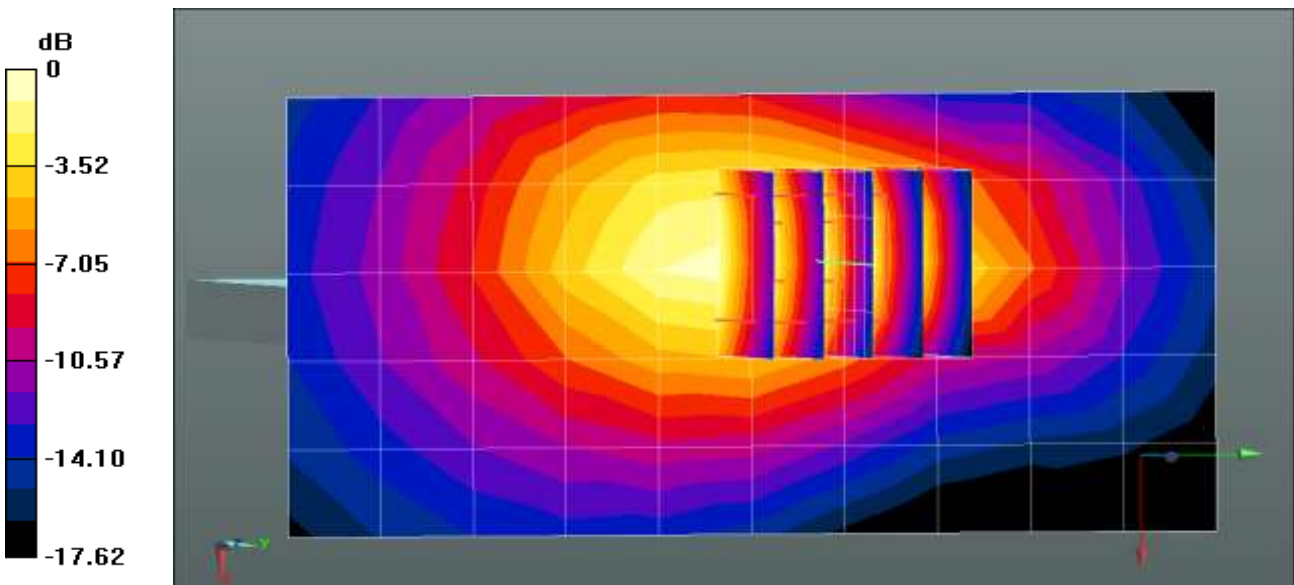
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.329$  S/m;  $\epsilon_r = 39.697$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.43, 8.43, 8.43) @ 1732.4 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 4 Body Bottom 1412ch/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.775 W/kg

**UMTS Band 4 Body Bottom 1412ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 18.58 V/m; Power Drift = 0.15 dB  
 Peak SAR (extrapolated) = 0.992 W/kg  
**SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.318 W/kg**  
 Maximum value of SAR (measured) = 0.809 W/kg



0 dB = 0.809 W/kg = -0.92 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/02/2023  
Plot No.: C5

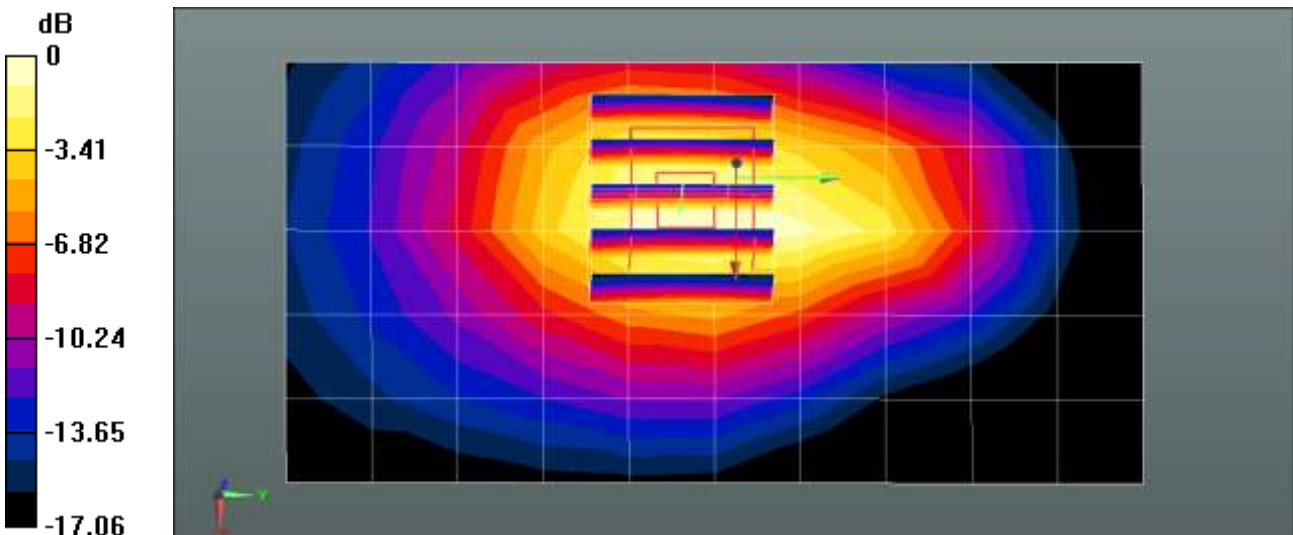
Communication System: UID 0, WCDMA1900 (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 40.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.03, 8.03, 8.03) @ 1907.6 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Body Bottom 9538ch/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.992 W/kg

**UMTS Band 2 Body Bottom 9538ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 19.92 V/m; Power Drift = 0.19 dB  
Peak SAR (extrapolated) = 1.25 W/kg  
**SAR(1 g) = 0.733 W/kg; SAR(10 g) = 0.415 W/kg**  
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 19.8 °C  
Ambient Temperature: 19.9 °C  
Test Date: 12/28/2022  
Plot No.: C6

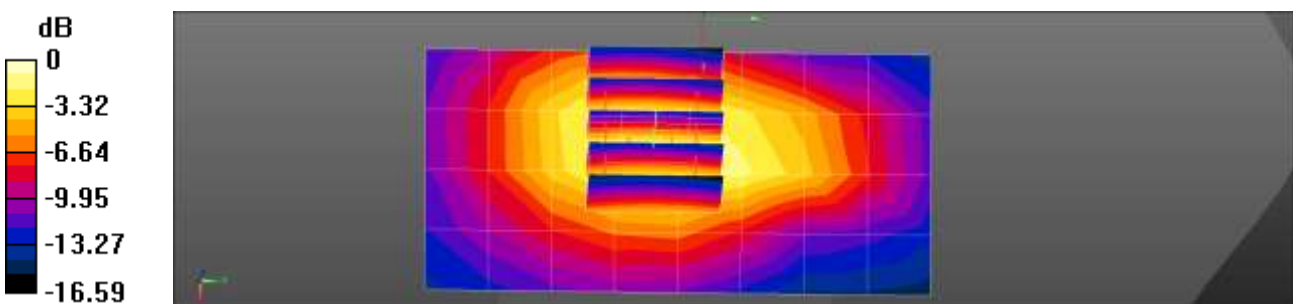
Communication System: UID 0, LTE 2 (0); Frequency: 1860 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.385$  S/m;  $\epsilon_r = 41.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.48, 8.48, 8.48) @ 1860 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**LTE Band 2 Body Bottom QPSK 20MHz 50RB 0offset 18700ch/Area Scan (5x9x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.776 W/kg

**LTE Band 2 Body Bottom QPSK 20MHz 50RB 0offset 18700ch/Zoom Scan (5x5x7)/Cube 0:**  
Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 24.55 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 1.11 W/kg  
**SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.379 W/kg**  
Maximum value of SAR (measured) = 0.953 W/kg



0 dB = 0.953 W/kg = -0.21 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 24.0 °C  
 Ambient Temperature: 24.1 °C  
 Test Date: 01/04/2023  
 Plot No.: C7

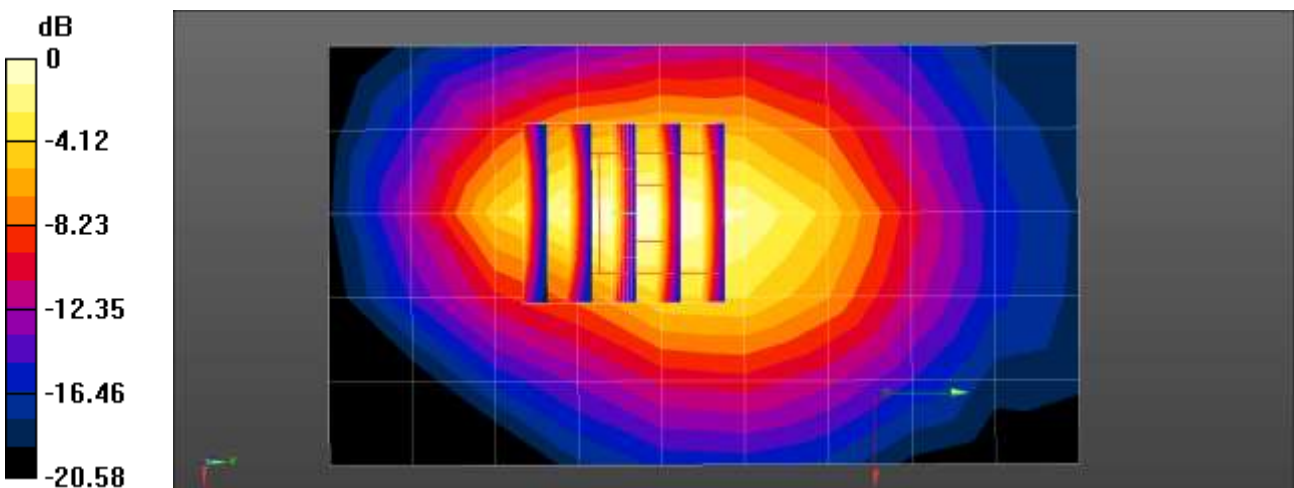
Communication System: UID 0, LTE Band 2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 41.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.57, 8.57, 8.57) @ 1900 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**LTE Band 2 Body Top QPSK 20MHz 18RB 82offset 19100ch/Area Scan (6x10x1):** Measurement grid:  
 dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.824 W/kg

**LTE Band 2 Body Top QPSK 20MHz 18RB 82offset 19100ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 21.54 V/m; Power Drift = 0.07 dB  
 Peak SAR (extrapolated) = 1.03 W/kg  
**SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.290 W/kg**  
 Maximum value of SAR (measured) = 0.841 W/kg



0 dB = 0.841 W/kg = -0.75 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 21.7 °C  
 Ambient Temperature: 21.9 °C  
 Test Date: 01/17/2023  
 Plot No.: C8

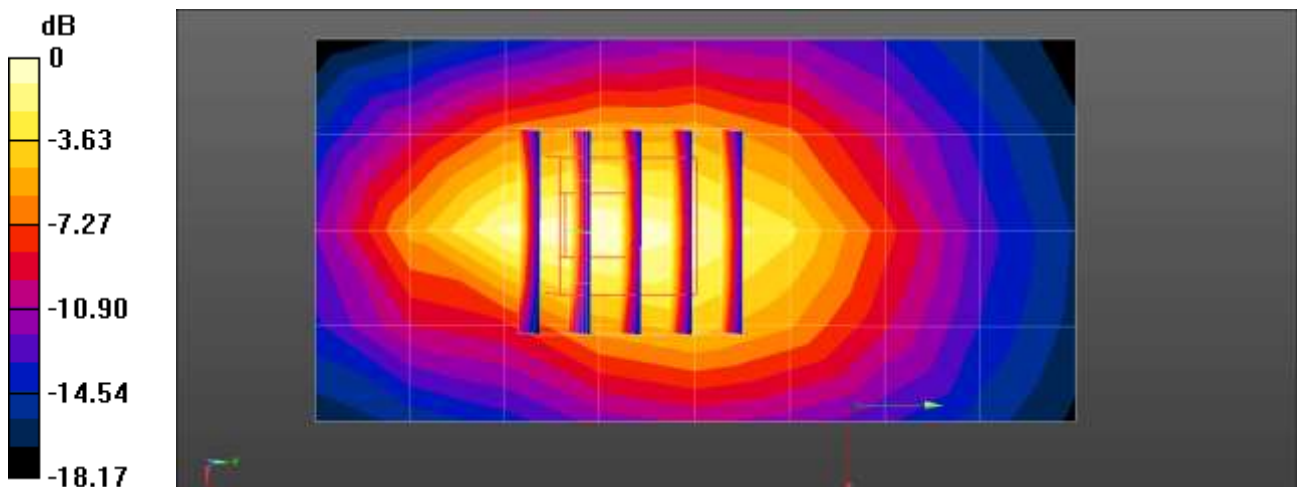
Communication System: UID 0, LTE Band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.328$  S/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.93, 8.93, 8.93) @ 1732.5 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**LTE Band 4 Body Top QPSK 20MHz 18RB 82offset 20175ch/Area Scan (5x9x1):** Measurement grid:  
 dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.701 W/kg

**LTE Band 4 Body Top QPSK 20MHz 18RB 82offset 20175ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 20.97 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 0.838 W/kg  
**SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.257 W/kg**  
 Maximum value of SAR (measured) = 0.703 W/kg



0 dB = 0.703 W/kg = -1.53 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 19.8 °C  
 Ambient Temperature: 19.9 °C  
 Test Date: 12/26/2022  
 Plot No.: C9

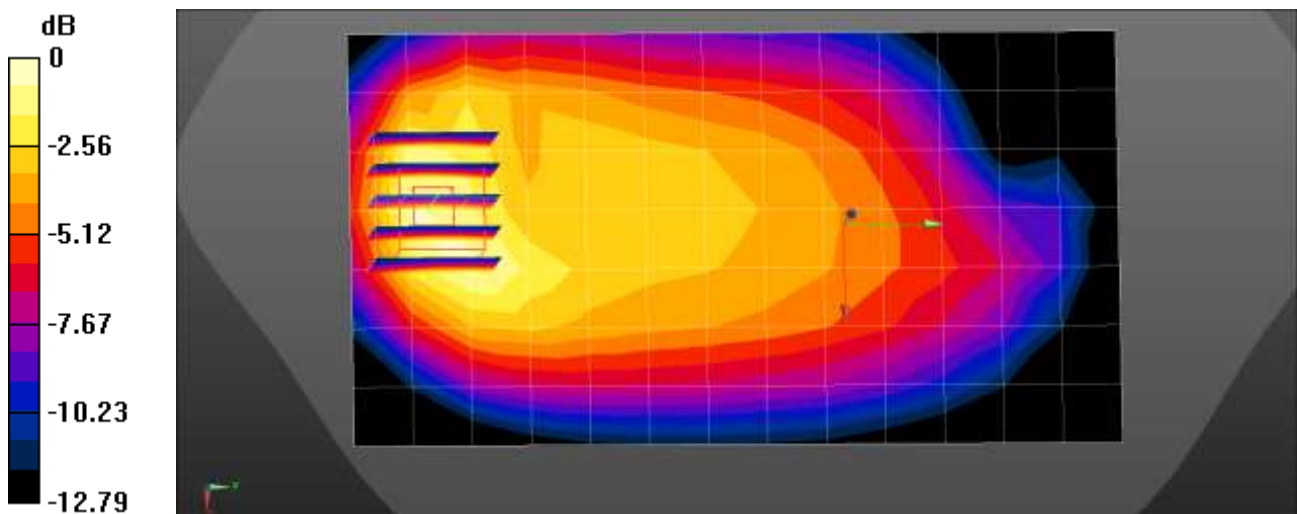
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 707.5 \text{ MHz}$ ;  $\sigma = 0.802 \text{ S/m}$ ;  $\epsilon_r = 44.827$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 12 Body Rear QPSK 10MHz 1RB 0offset 23095ch/Area Scan (8x14x1):** Measurement grid:  
 $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.460 W/kg

**LTE Band 12 Body Rear QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 17.82 V/m; Power Drift = -0.00 dB  
 Peak SAR (extrapolated) = 0.613 W/kg  
**SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.218 W/kg**  
 Maximum value of SAR (measured) = 0.518 W/kg



0 dB = 0.518 W/kg = -2.86 dBW/kg



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.4 °C  
Ambient Temperature: 20.5 °C  
Test Date: 12/27/2022  
Plot No.: C10

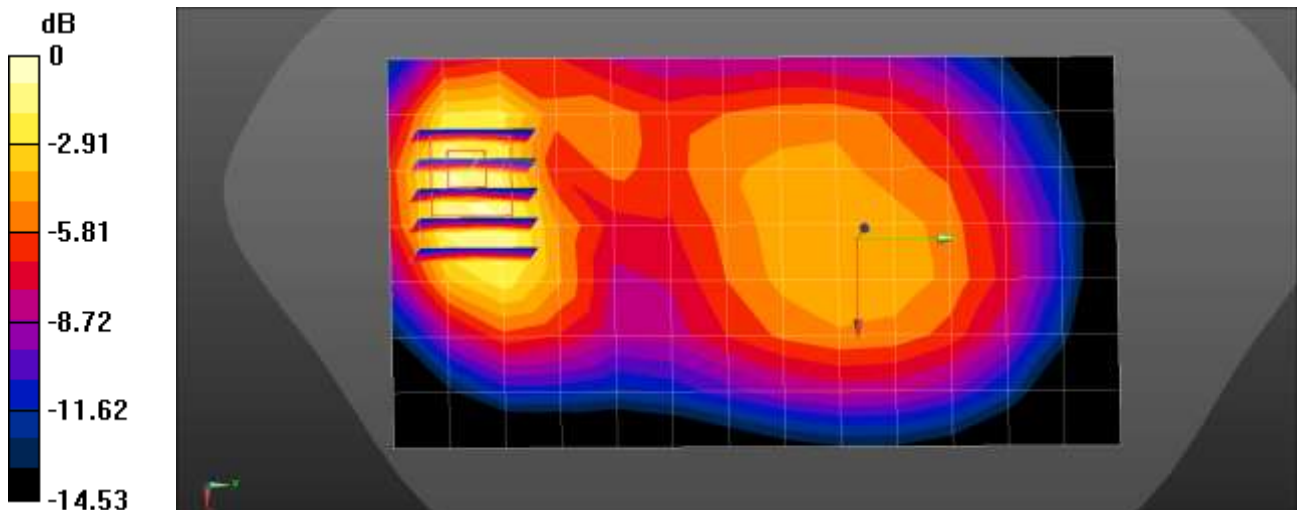
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 831.5$  MHz;  $\sigma = 0.926$  S/m;  $\epsilon_r = 43.031$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(9.64, 9.64, 9.64) @ 831.5 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 26 Body Rear QPSK 15MHz 1RB 0offset 26865ch/Area Scan (8x14x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.639 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 = 18.39 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.992 W/kg  
**SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.299 W/kg**  
Maximum value of SAR (measured) = 0.779 W/kg



0 dB = 0.779 W/kg = -1.08 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 22.5 °C  
 Ambient Temperature: 22.6 °C  
 Test Date: 12/27/2022  
 Plot No.: C11

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 10.00	Band 41, E-UTRA/TDD	2636.5, 41055	7.59	2.01	37.9

**Hardware Setup**

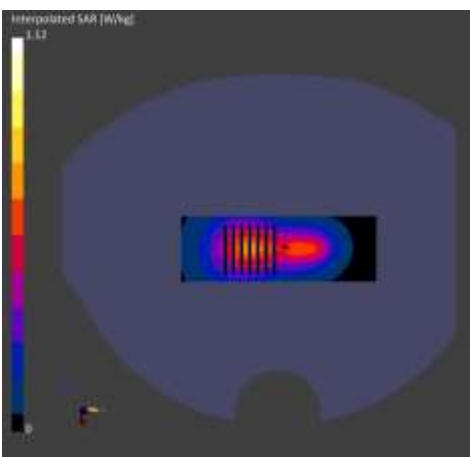
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2022-09-28	DAE4 Sn652, 2022-01-24

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.554	0.567
psSAR10g [W/Kg]	0.290	0.288
Power Drift [dB]	0.04	0.02



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.1 °C  
Ambient Temperature: 20.3 °C  
Test Date: 01/02/2023  
Plot No.: C12

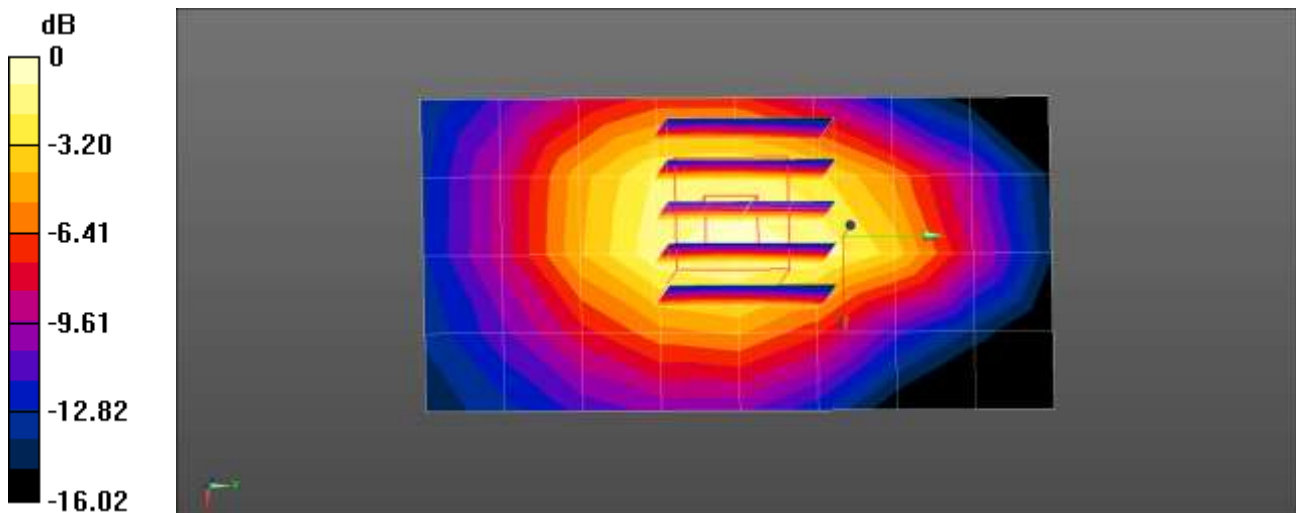
Communication System: UID 0, LTE Band 66 (0); Frequency: 1770 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.359$  S/m;  $\epsilon_r = 39.533$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.68, 8.68, 8.68) @ 1770 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 66 Body Bottom QPSK 20MHz 1RB 49offset 132572ch/Area Scan (5x9x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.03 W/kg

**LTE Band 66 Body Bottom QPSK 20MHz 1RB 49offset 132572ch/Zoom Scan (5x5x7)/Cube 0:**  
Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 28.80 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 1.33 W/kg  
**SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.475 W/kg**  
Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/09/2023  
Plot No.: C13

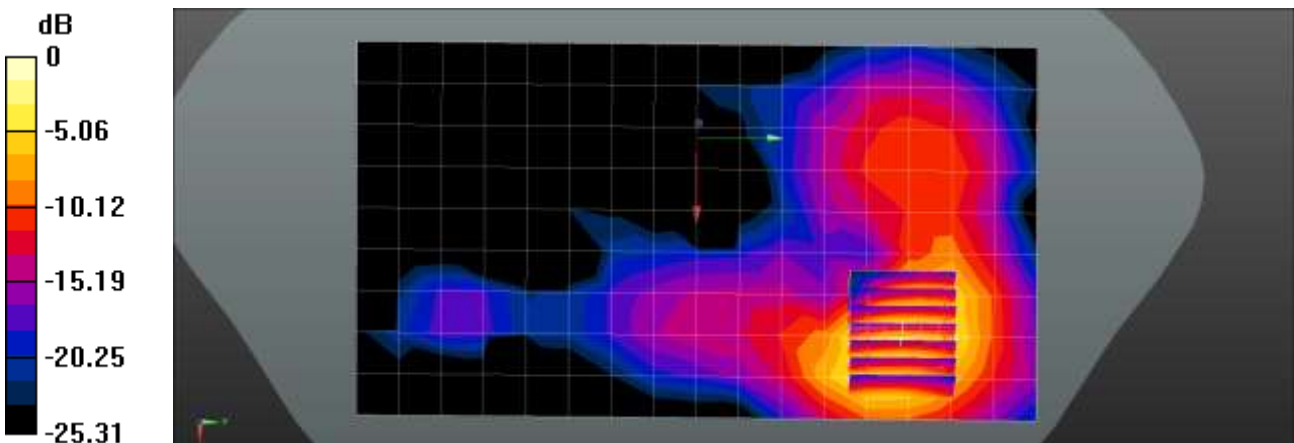
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.84$  S/m;  $\epsilon_r = 39.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.28, 8.28, 8.28) @ 2462 MHz; Calibrated: 2022-11-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2022-07-18
- 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)

**802.11b Body Rear 1Mbps 11ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.240 W/kg

**802.11b Body Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 0.6630 V/m; Power Drift = -0.18 dB  
Peak SAR (extrapolated) = 0.302 W/kg  
**SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.073 W/kg**  
Maximum value of SAR (measured) = 0.251 W/kg



0 dB = 0.251 W/kg = -6.00 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.3 °C  
 Ambient Temperature: 20.4 °C  
 Test Date: 01/03/2023  
 Plot No.: C14

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 10.00	WLAN 5GHz	5785.0, 157	4.75	5.40	35.7

**Hardware Setup**

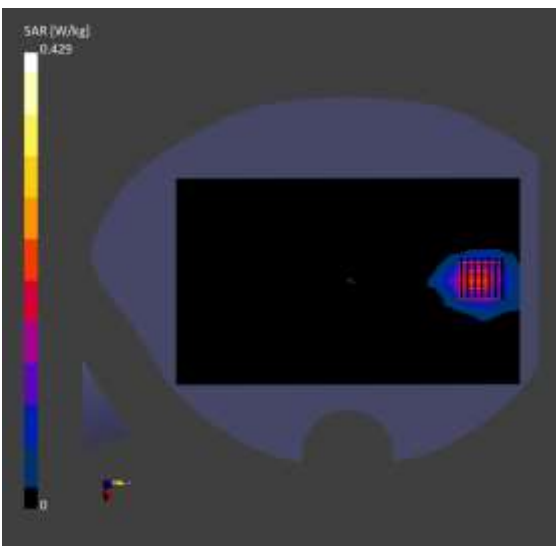
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.185	0.183
psSAR10g [W/Kg]	0.068	0.059
Power Drift [dB]	-0.02	-0.01



Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.3 °C  
Ambient Temperature: 20.4 °C  
Test Date: 01/11/2023  
Plot No.: C15

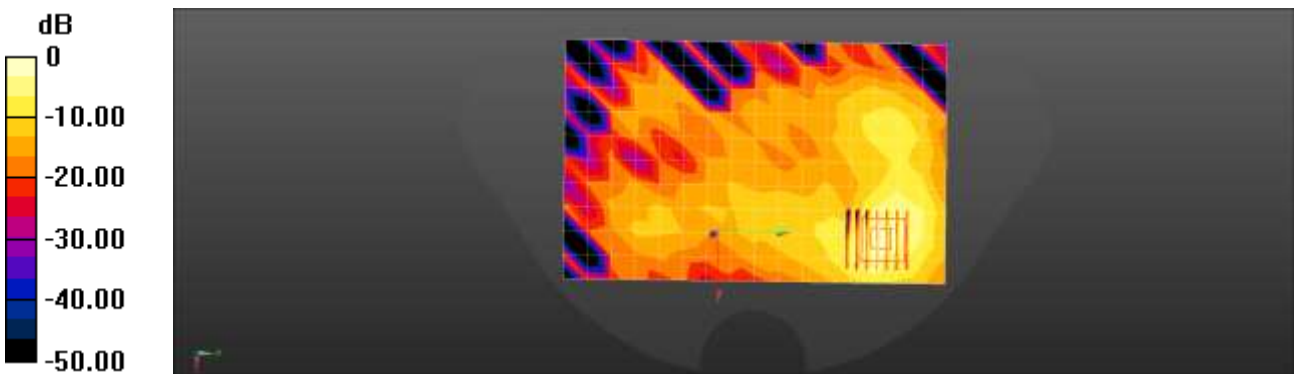
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2480$  MHz;  $\sigma = 1.852$  S/m;  $\epsilon_r = 38.749$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2480 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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)

**Bluetooth Body Rear DH5 78ch/Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.124 W/kg

**Bluetooth Body Rear DH5 78ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 1.496 V/m; Power Drift = -0.14 dB  
Peak SAR (extrapolated) = 0.172 W/kg  
**SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.038 W/kg**  
Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.140 W/kg = -8.54 dBW/kg



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 21.2 °C  
 Ambient Temperature: 21.3 °C  
 Test Date: 01/12/2023  
 Plot No.: C16

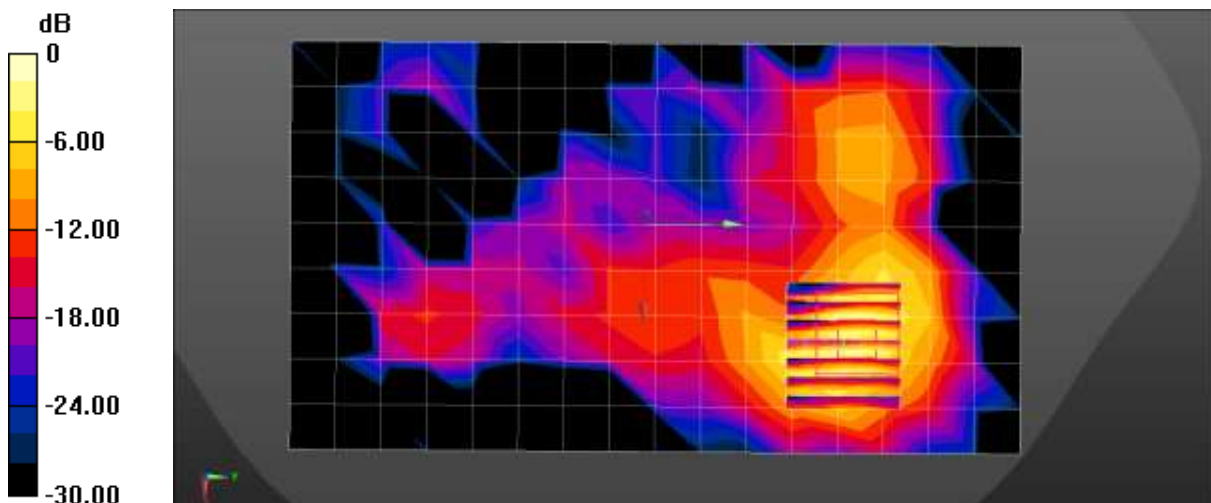
Communication System: UID 0, Bluetooth Low Energy; Frequency: 2440 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.818 \text{ S/m}$ ;  $\epsilon_r = 38.302$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2440 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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)

**Bluetooth LE Body Rear 1M 255Mbps 19ch/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 0.148 W/kg

**Bluetooth LE Body Rear 1M 255Mbps 19ch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 1.684 V/m; Power Drift = -0.12 dB  
 Peak SAR (extrapolated) = 0.250 W/kg  
**SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.056 W/kg**  
 Smallest distance from peaks to all points 3 dB below = 5.8 mm  
 Ratio of SAR at M2 to SAR at M1 = 51.3%  
 Maximum value of SAR (measured) = 0.216 W/kg



0 dB = 0.216 W/kg = -6.66 dBW/kg

Test Laboratory: HCT CO., LTD  
EUT Type: Mobile Phone  
Liquid Temperature: 20.6 °C  
Ambient Temperature: 20.7 °C  
Test Date: 01/02/2023  
Plot No.: C17

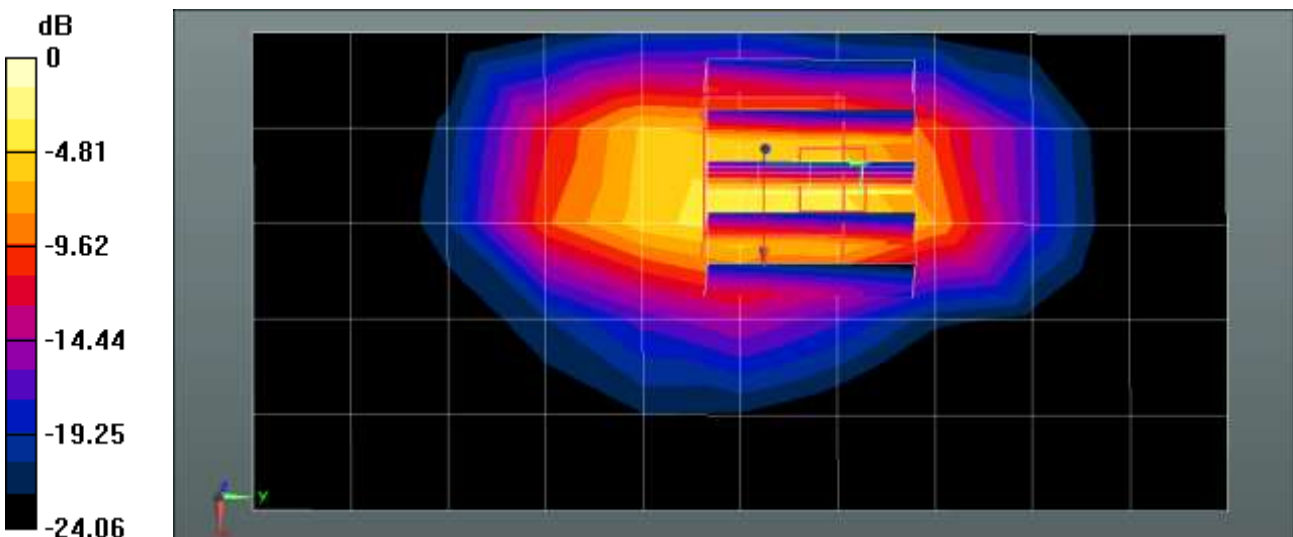
Communication System: UID 0, WCDMA1900 (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 40.426$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.03, 8.03, 8.03) @ 1852.4 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**UMTS Band 2 Body Bottom 9262ch/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 4.42 W/kg

**UMTS Band 2 Body Bottom 9262ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 25.89 V/m; Power Drift = 0.15 dB  
Peak SAR (extrapolated) = 12.3 W/kg  
**SAR(1 g) = 4.4 W/kg; SAR(10 g) = 1.81 W/kg**  
Maximum value of SAR (measured) = 9.37 W/kg



0 dB = 9.37 W/kg = 9.72 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 20.8 °C  
 Ambient Temperature: 20.9 °C  
 Test Date: 01/03/2023  
 Plot No.: C18

Communication System: UID 0, LTE Band 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1770 \text{ MHz}$ ;  $\sigma = 1.363 \text{ S/m}$ ;  $\epsilon_r = 40.087$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

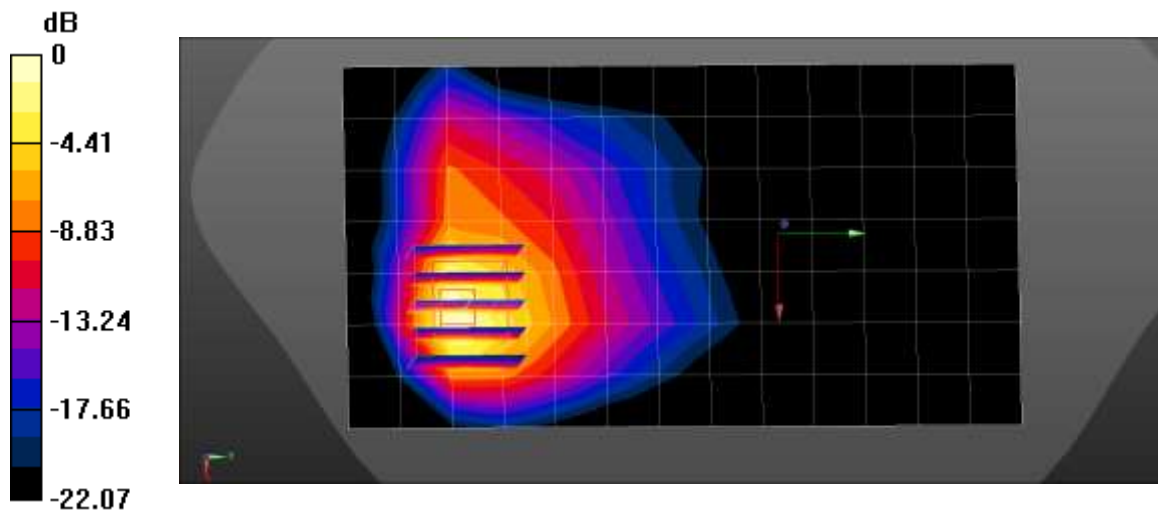
- Probe: EX3DV4 - SN3903; ConvF(8.68, 8.68, 8.68) @ 1770 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**LTE Band 66 Phablet Rear QPSK 20MHz 50RB 25offset 132572ch Grip 0mm/Area Scan (8x14x1):**

Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 9.90 W/kg

**LTE Band 66 Phablet Rear QPSK 20MHz 50RB 25offset 132572ch Grip 0mm/Zoom Scan (5x5x7)/Cube**

**0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.121 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = 11.5 W/kg  
**SAR(1 g) = 5.06 W/kg; SAR(10 g) = 2.26 W/kg**  
 Maximum value of SAR (measured) = 8.89 W/kg



0 dB = 8.89 W/kg = 9.49 dBW/kg

Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 18.8 °C  
 Ambient Temperature: 18.9 °C  
 Test Date: 01/04/2023  
 Plot No.: C19

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	5300.0, 60	5.29	4.86	36.3

**Hardware Setup**

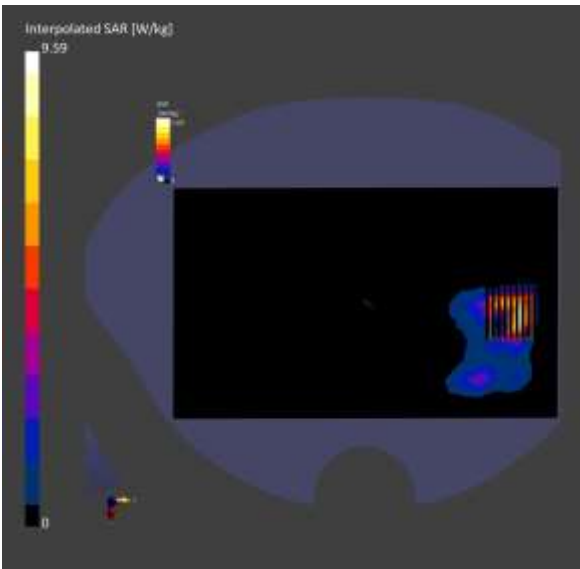
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.72	1.87
psSAR10g [W/Kg]	0.509	0.550
Power Drift [dB]	-0.10	-0.10



Test Laboratory: HCT CO., LTD  
 EUT Type: Mobile Phone  
 Liquid Temperature: 22.1 °C  
 Ambient Temperature: 22.2 °C  
 Test Date: 01/10/2023  
 Plot No.: C20

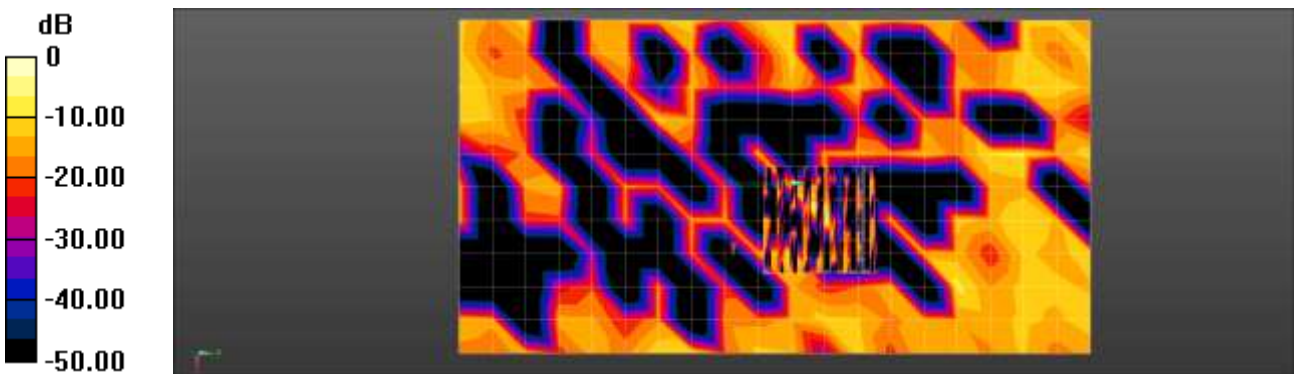
Communication System: UID 0, CW (0); Frequency: 13.56 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 14 \text{ MHz}$ ;  $\sigma = 0.756 \text{ S/m}$ ;  $\epsilon_r = 54.227$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.75, 5.75, 5.75) @ 13.56 MHz; Calibrated: 2022-07-20
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- Phantom: ELI V4.0 Left (20deg probe tilt); Type: QD OVA 001 Bx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**NFC Phablet Rear Type A 106kbps/Area Scan (11x20x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
 Maximum value of SAR (measured) = 0.00395 W/kg

**NFC Phablet Rear Type A 106kbps/Zoom Scan (9x9x8)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$   
 Reference Value = 0 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 0.0710 W/kg  
**SAR(1 g) = 0.00232 W/kg; SAR(10 g) = 0.000308 W/kg**  
 Maximum value of SAR (measured) = 0.00710 W/kg



0 dB = 0.00710 W/kg = -21.49 dBW/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: 12/26/2022

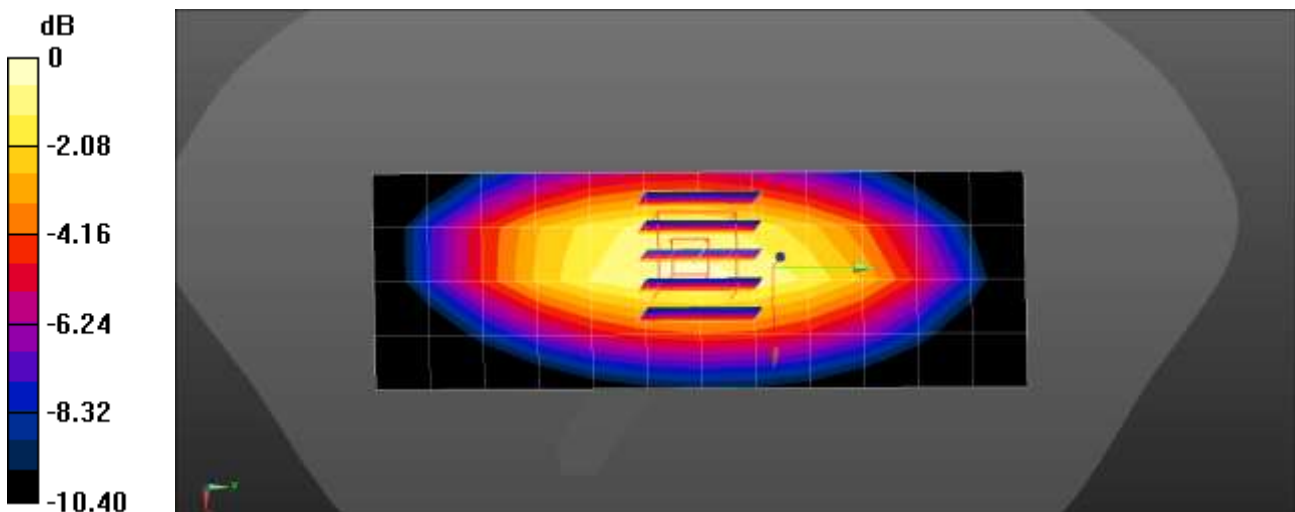
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 43.046$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(10.01, 10.01, 10.01) @ 750 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**750MHz Head Verification/Area Scan (5x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.494 W/kg

**750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 24.54 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 0.610 W/kg  
**SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.268 W/kg**  
Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.538 W/kg = -2.69 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.2 °C  
Test Date: 12/28/2022

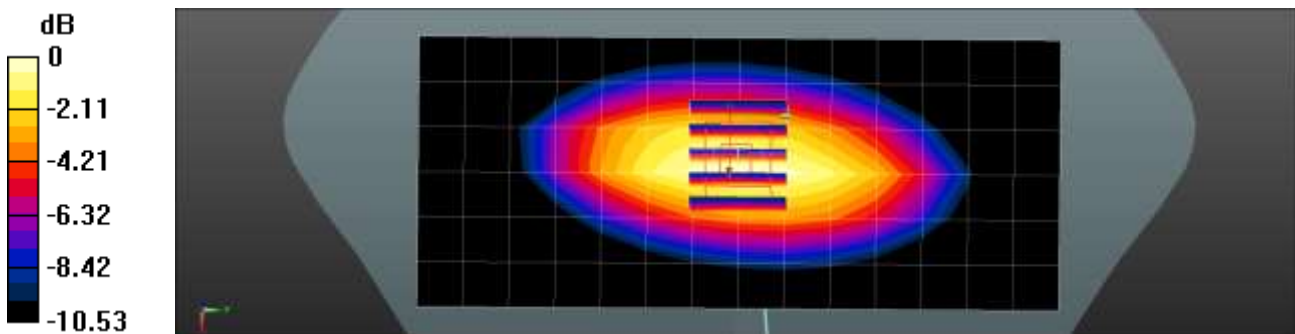
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.888$  S/m;  $\epsilon_r = 42.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(10.23, 10.23, 10.23) @ 835 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**835MHz Head Verification/Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.634 W/kg

**835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 28.07 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.724 W/kg  
**SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.317 W/kg**  
Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.643 W/kg = -1.92 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 21.2 °C  
Test Date: 12/28/2022

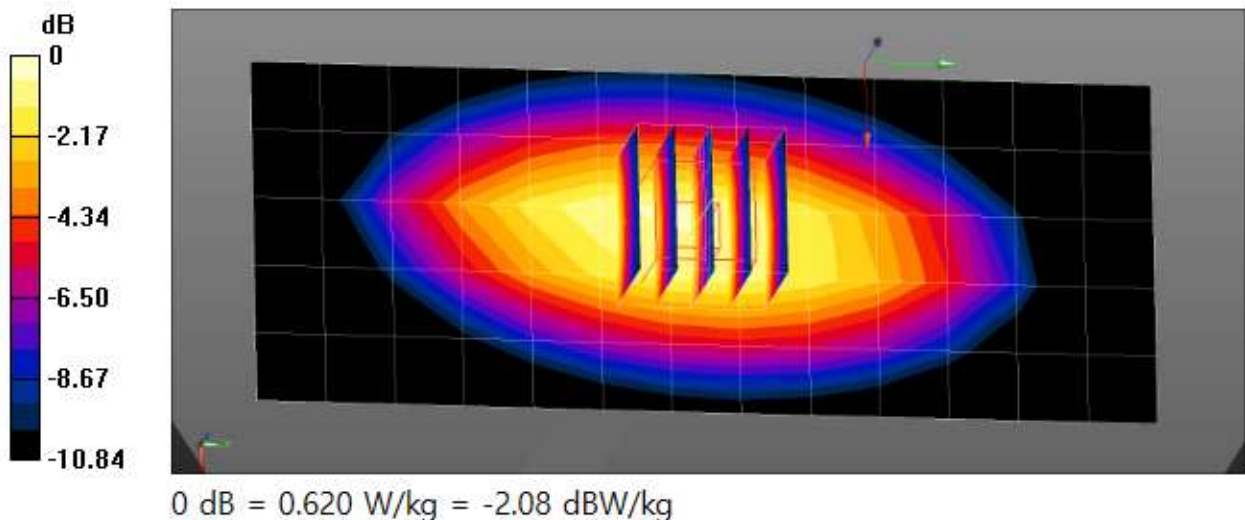
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.898$  S/m;  $\epsilon_r = 41.532$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(9.57, 9.57, 9.57) @ 835 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Left\_20170913
- Measurement SW: DASY52, Version 52.10 (4)

**835MHz Head Verification/Area Scan (6x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.550 W/kg

**835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 27.67 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 0.692 W/kg  
**SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.305 W/kg**  
Maximum value of SAR (measured) = 0.620 W/kg



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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.4 °C  
Test Date: 12/27/2022

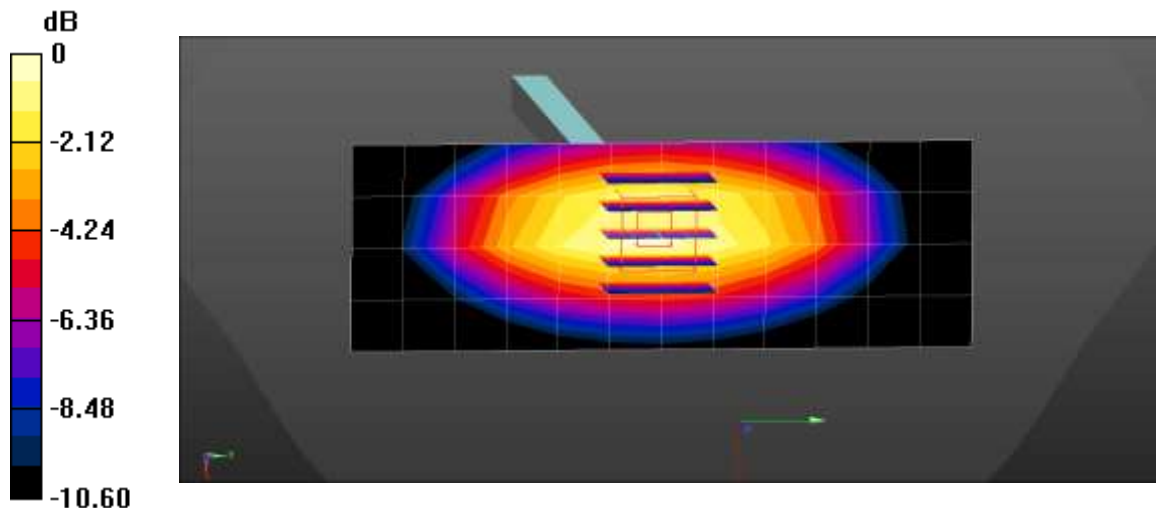
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 42.986$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(9.64, 9.64, 9.64) @ 835 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**835MHz Head Verification/Area Scan (5x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.598 W/kg

**835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 26.62 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.747 W/kg  
**SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.325 W/kg**  
Maximum value of SAR (measured) = 0.664 W/kg



0 dB = 0.664 W/kg = -1.78 dBW/kg

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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 22.0 °C  
 Test Date: 12/29/2022

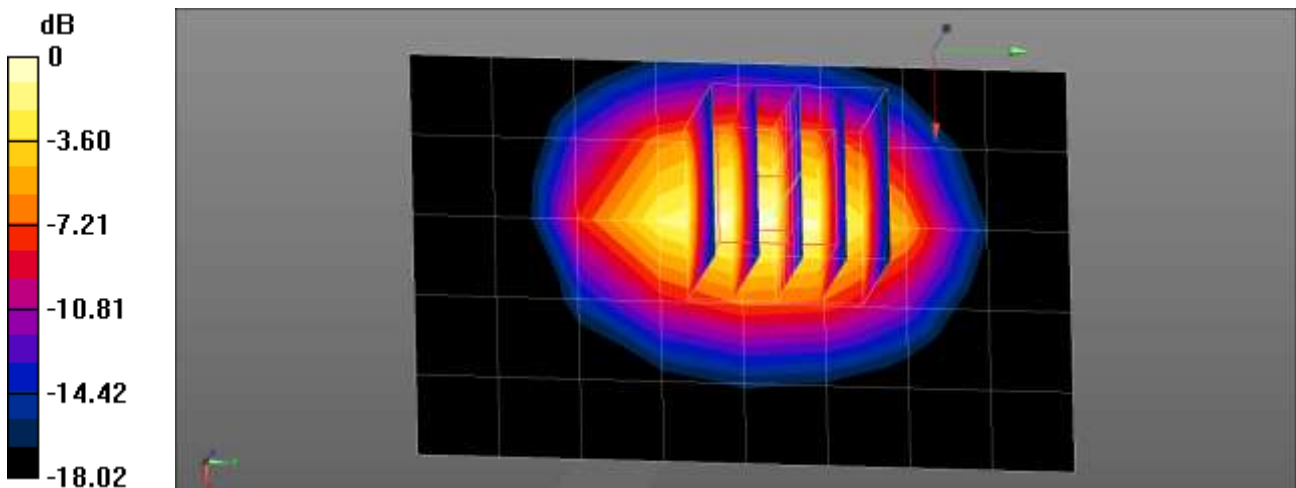
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.4 \text{ S/m}$ ;  $\epsilon_r = 39.397$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.43, 8.43, 8.43) @ 1800 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217
- Measurement SW: DASY52, Version 52.10 (4)

**1800MHz Head Verification/Area Scan (6x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 2.74 W/kg

**1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 34.21 V/m; Power Drift = 0.16 dB  
 Peak SAR (extrapolated) = 3.40 W/kg  
**SAR(1 g) = 1.83 W/kg; SAR(10 g) = 0.965 W/kg**  
 Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.1 °C  
Test Date: 01/02/2023

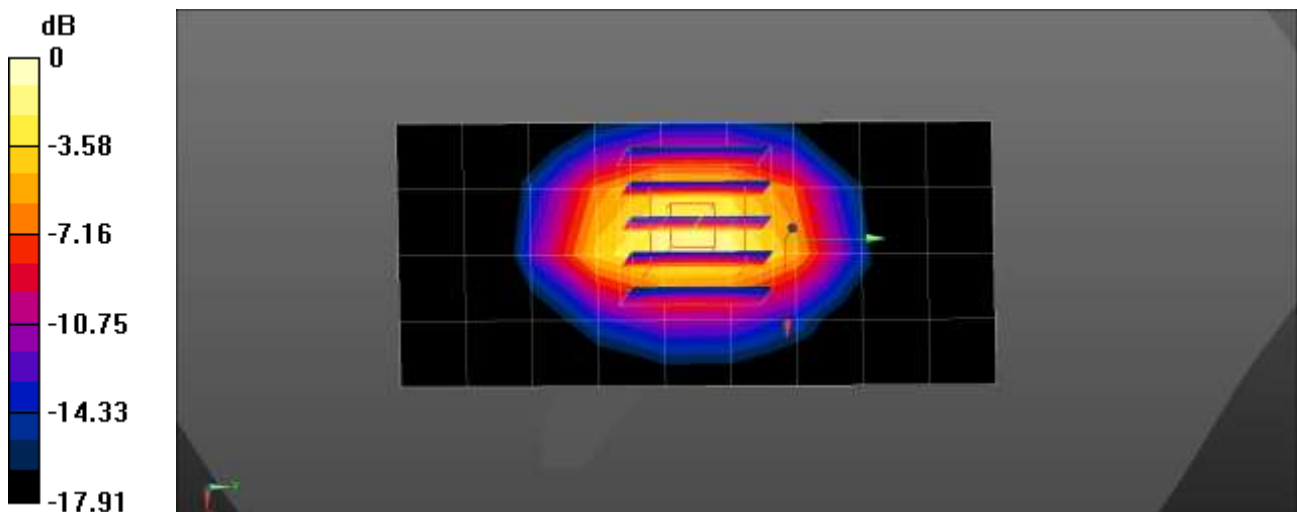
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 39.383$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.68, 8.68, 8.68) @ 1800 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**1800MHz Head Verification/Area Scan (5x10x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 2.43 W/kg

**1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 44.92 V/m; Power Drift = 0.12 dB  
Peak SAR (extrapolated) = 4.02 W/kg  
**SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.08 W/kg**  
Maximum value of SAR (measured) = 3.35 W/kg



0 dB = 3.35 W/kg = 5.25 dBW/kg



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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 21.7 °C  
 Test Date: 01/17/2023

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2**

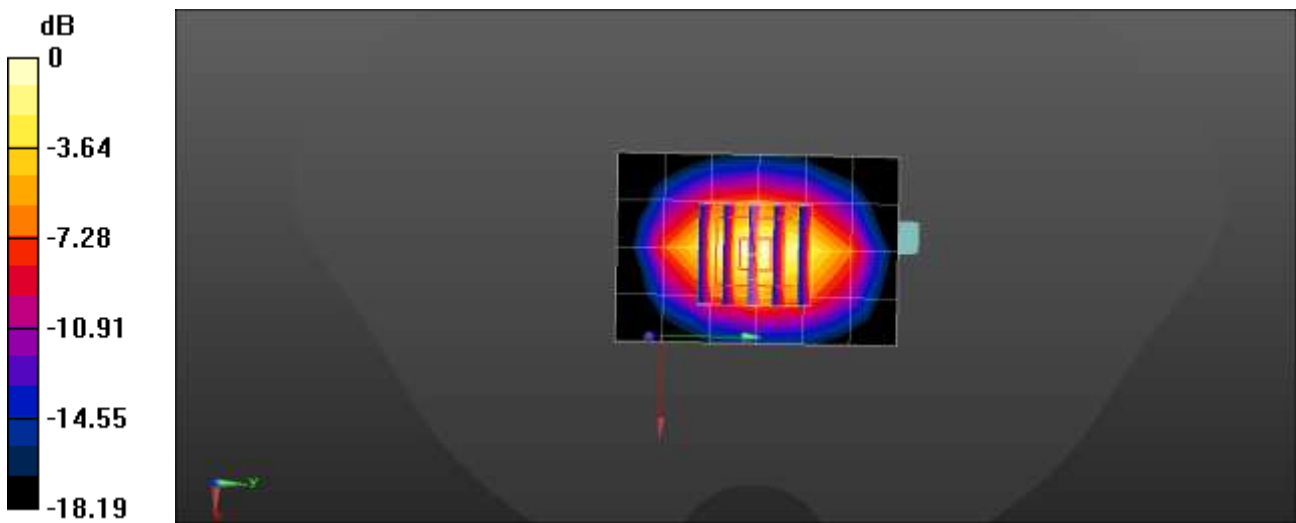
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.4 \text{ S/m}$ ;  $\epsilon_r = 39.394$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.93, 8.93, 8.93) @ 1800 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**1800MHz Head Verification/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 2.99 W/kg

**1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 47.70 V/m; Power Drift = -0.06 dB  
 Peak SAR (extrapolated) = 3.64 W/kg  
**SAR(1 g) = 1.92 W/kg; SAR(10 g) = 0.993 W/kg**  
 Maximum value of SAR (measured) = 3.03 W/kg



0 dB = 3.03 W/kg = 4.81 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 19.3 °C  
Test Date: 01/02/2023

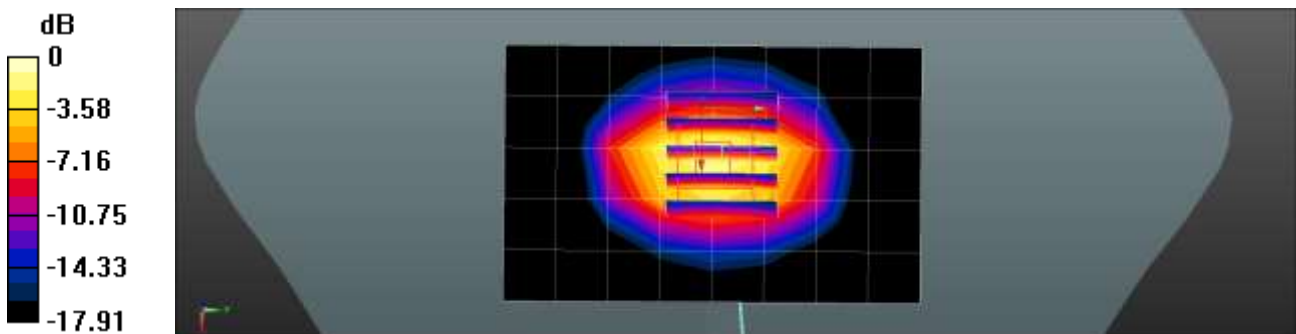
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.399$  S/m;  $\epsilon_r = 40.319$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.78, 8.78, 8.78) @ 1900 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2022-05-02
- 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)

**1900MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 2.60 W/kg

**1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 47.92 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 3.87 W/kg  
**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.06 W/kg**  
Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.18 W/kg = 5.02 dBW/kg

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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 20.6 °C  
 Test Date: 01/02/2023

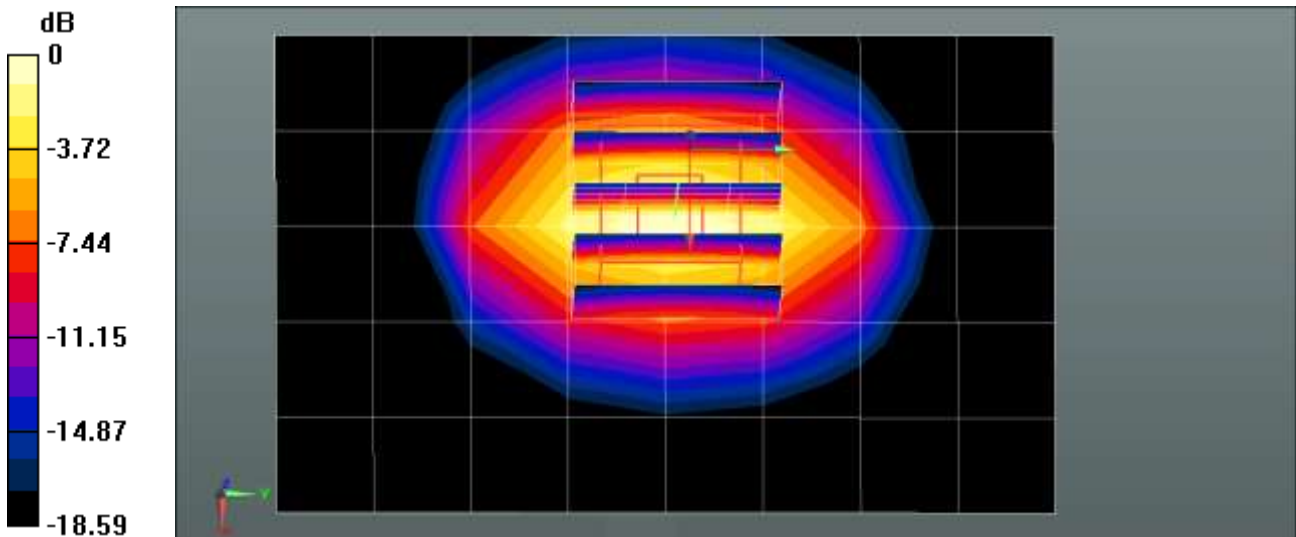
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.38 \text{ S/m}$ ;  $\epsilon_r = 40.246$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.03, 8.03, 8.03) @ 1900 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**1900MHz Head Verification/Area Scan (6x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 3.18 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 = 37.27 V/m; Power Drift = 0.11 dB  
 Peak SAR (extrapolated) = 3.95 W/kg  
**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.03 W/kg**  
 Maximum value of SAR (measured) = 3.27 W/kg



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

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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 19.8 °C  
 Test Date: 12/28/2022

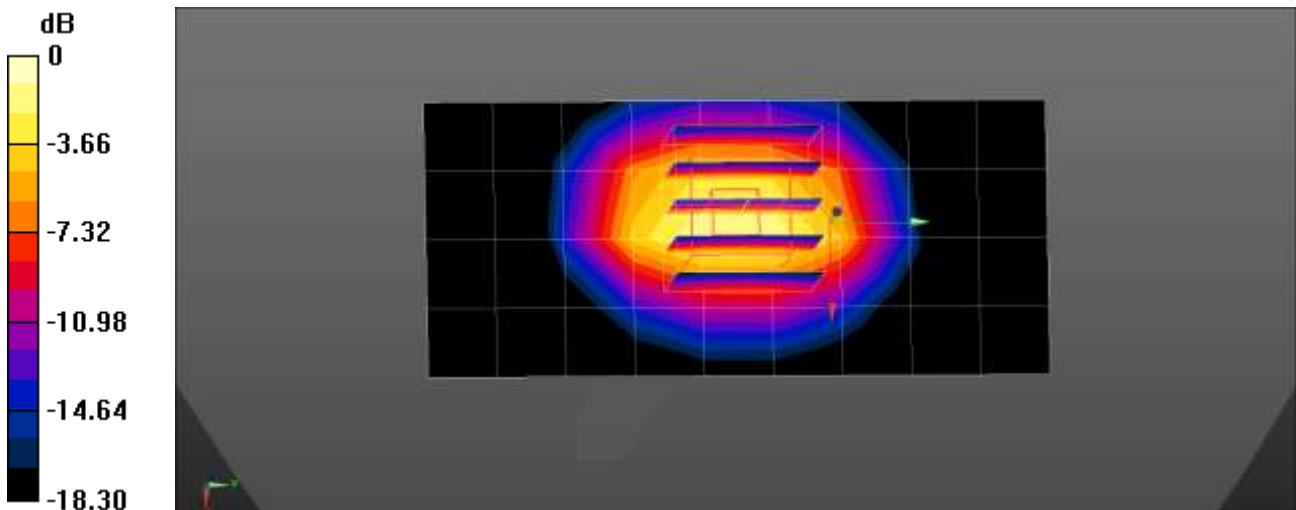
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.425$  S/m;  $\epsilon_r = 41.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.48, 8.48, 8.48) @ 1900 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**1900MHz Head Verification/Area Scan (5x10x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 2.29 W/kg

**1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 43.33 V/m; Power Drift = 0.14 dB  
 Peak SAR (extrapolated) = 3.61 W/kg  
**SAR(1 g) = 1.89 W/kg; SAR(10 g) = 0.974 W/kg**  
 Maximum value of SAR (measured) = 3.00 W/kg



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

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 24.0 °C  
Test Date: 01/04/2023

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2**

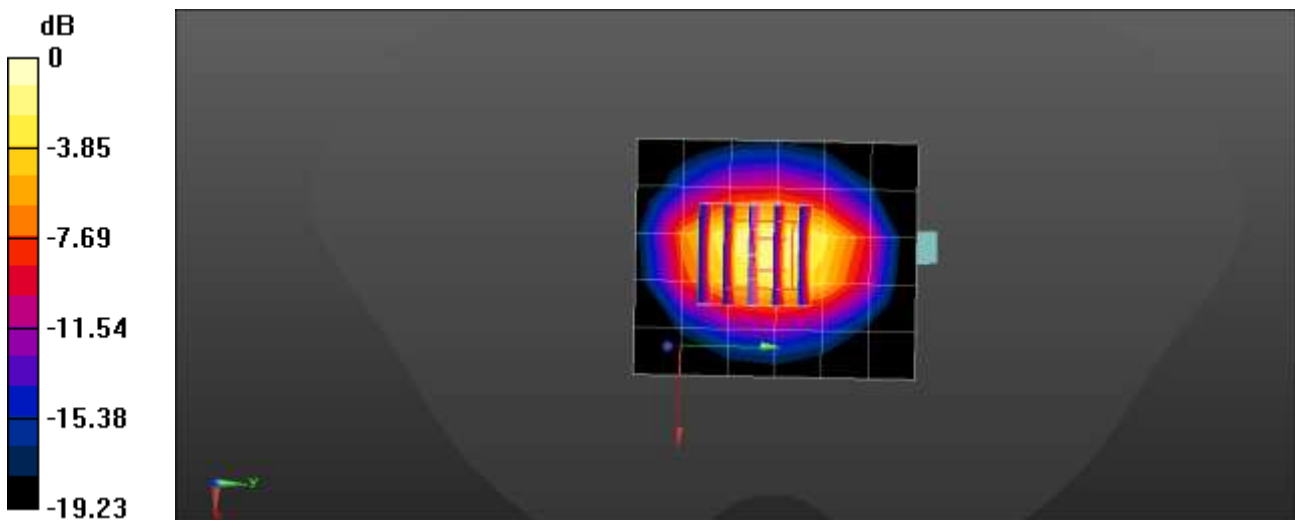
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 41.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.57, 8.57, 8.57) @ 1900 MHz; Calibrated: 2022-06-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2022-04-29
- Phantom: Twin-SAM V4.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4);

**1900MHz Head Verification/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 2.36 W/kg

**1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 46.80 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 3.65 W/kg  
**SAR(1 g) = 1.92 W/kg; SAR(10 g) = 0.987 W/kg**  
Maximum value of SAR (measured) = 3.00 W/kg



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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.6 °C  
Test Date: 01/09/2023

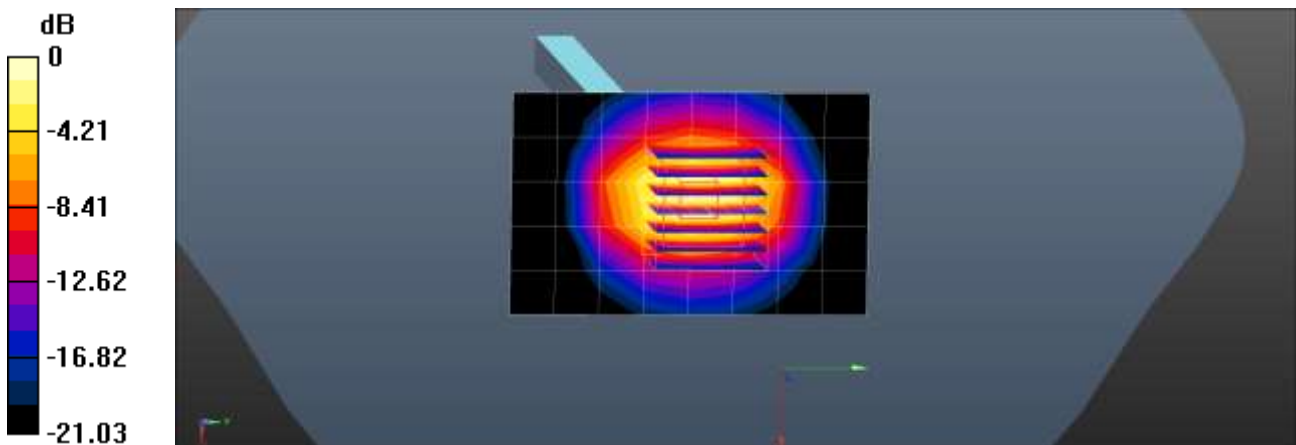
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.824$  S/m;  $\epsilon_r = 39.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8.28, 8.28, 8.28) @ 2450 MHz; Calibrated: 2022-11-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2022-07-18
- 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)

**2450MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 3.95 W/kg

**2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 51.41 V/m; Power Drift = 0.19 dB  
Peak SAR (extrapolated) = 5.65 W/kg  
**SAR(1 g) = 2.86 W/kg; SAR(10 g) = 1.36 W/kg**  
Maximum value of SAR (measured) = 4.66 W/kg



0 dB = 4.66 W/kg = 6.68 dBW/kg



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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.3 °C  
Test Date: 01/11/2023

**DUT: D2450V2 - SN743; Type: D2450V2; Serial: SN743**

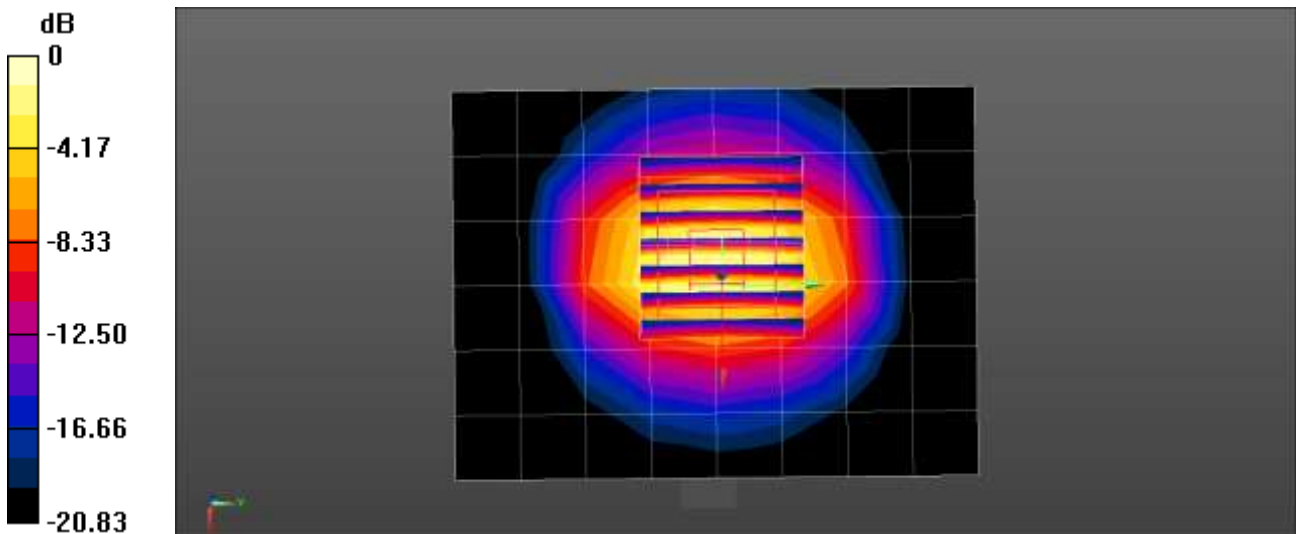
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 38.86$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(8.59, 8.59, 8.59) @ 2450 MHz; Calibrated: 2022-05-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- 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/2450MHz Head Verification/Area Scan (7x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 3.70 W/kg

**Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 46.56 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 5.44 W/kg  
**SAR(1 g) = 2.68 W/kg; SAR(10 g) = 1.27 W/kg**  
Maximum value of SAR (measured) = 4.41 W/kg



0 dB = 4.41 W/kg = 6.44 dBW/kg

■ **Verification Data (2600 MHz Head)**

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 22.5 °C  
 Test Date: 12/27/2022

**Measurement Report for SM-A546BDS, CW, Channel 0 (2600.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	2600.0, 0	7.59	1.98	38.1

**Hardware Setup**

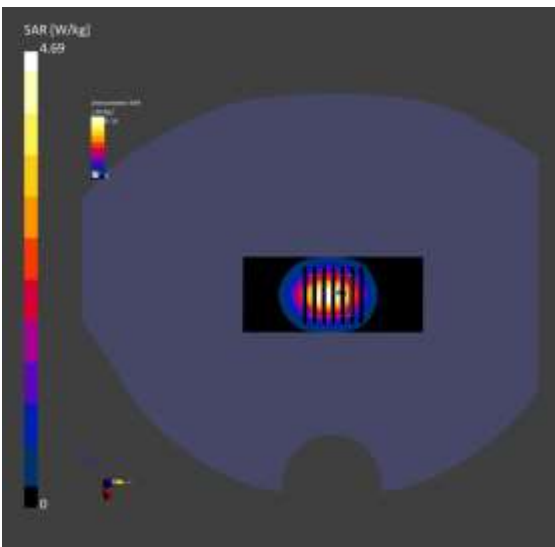
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2022-09-28	DAE4 Sn652, 2022-01-24

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.5

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.62	2.60
psSAR10g [W/Kg]	1.17	1.13
Power Drift [dB]	-0.01	0.01



■ **Verification Data (5250 MHz Head)**

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 19.6 °C  
Test Date: 01/06/2023  
Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.692$  S/m;  $\epsilon_r = 35.921$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.6, 5.6, 5.6) @ 5250 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**5250MHz Head Verification/Area Scan (61x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 10.9 W/kg

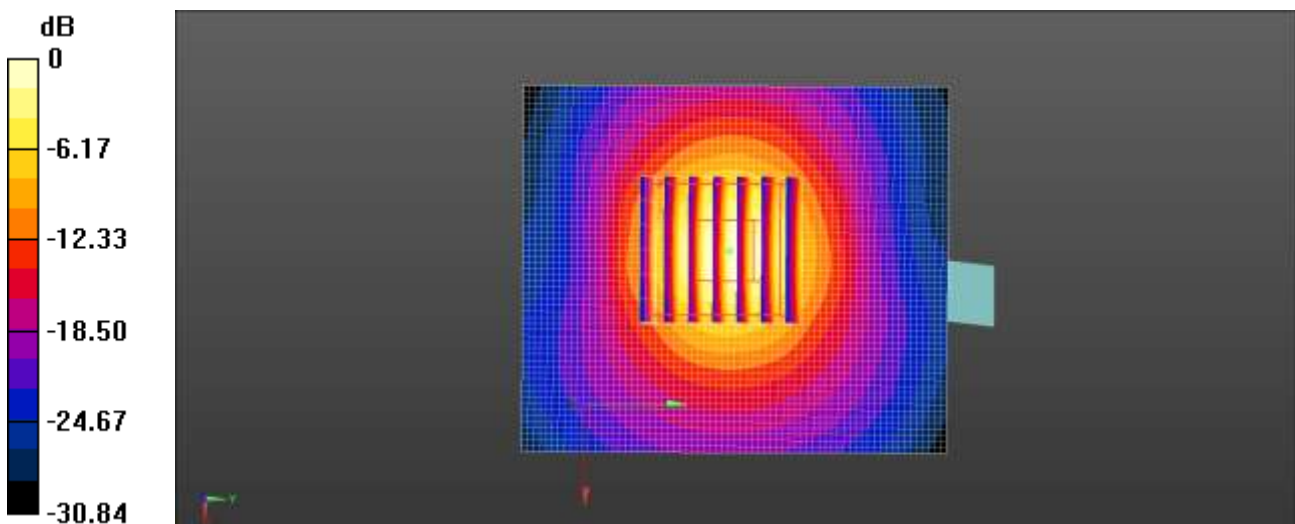
**5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 47.65 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 15.0 W/kg

**SAR(1 g) = 4.25 W/kg; SAR(10 g) = 1.26 W/kg**

Maximum value of SAR (measured) = 10.0 W/kg



0 dB = 10.9 W/kg = 10.36 dBW/kg

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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 19.6 °C  
 Test Date: 01/06/2023  
 Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.968$  S/m;  $\epsilon_r = 35.378$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.09, 5.09, 5.09) @ 5600 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**5600MHz Head Verification/Area Scan (61x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Maximum value of SAR (interpolated) = 11.6 W/kg

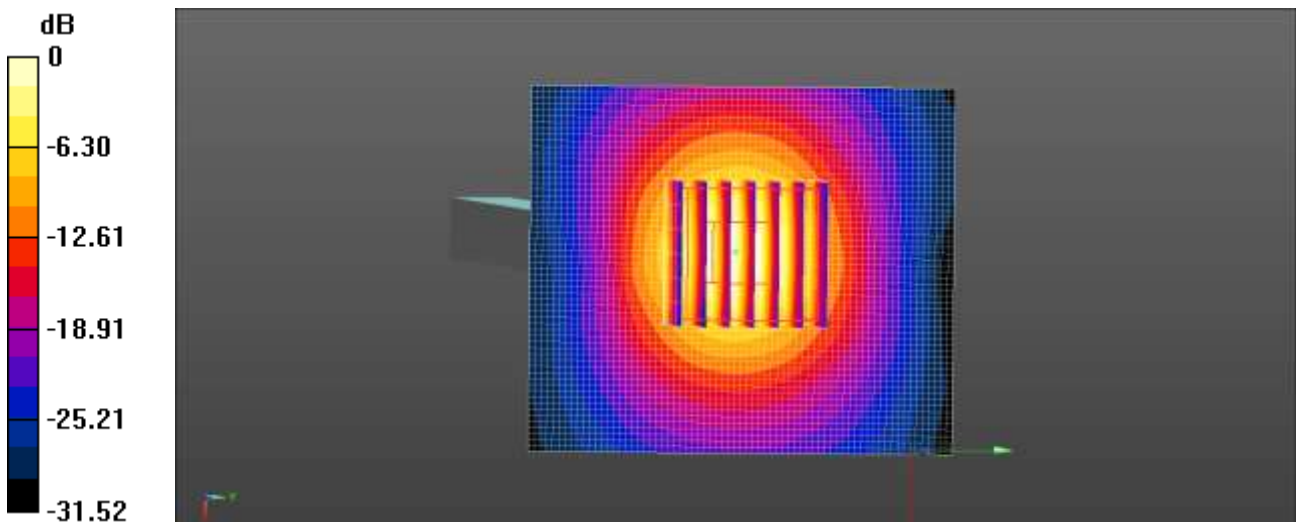
**5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.20 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 16.1 W/kg

**SAR(1 g) = 4.39 W/kg; SAR(10 g) = 1.3 W/kg**

Maximum value of SAR (measured) = 10.3 W/kg



0 dB = 11.6 W/kg = 10.65 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 19.6 °C  
Test Date: 01/06/2023  
Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.255$  S/m;  $\epsilon_r = 35.256$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.2, 5.2, 5.2) @ 5750 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**5750MHz Head Verification/Area Scan (61x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 11.6 W/kg

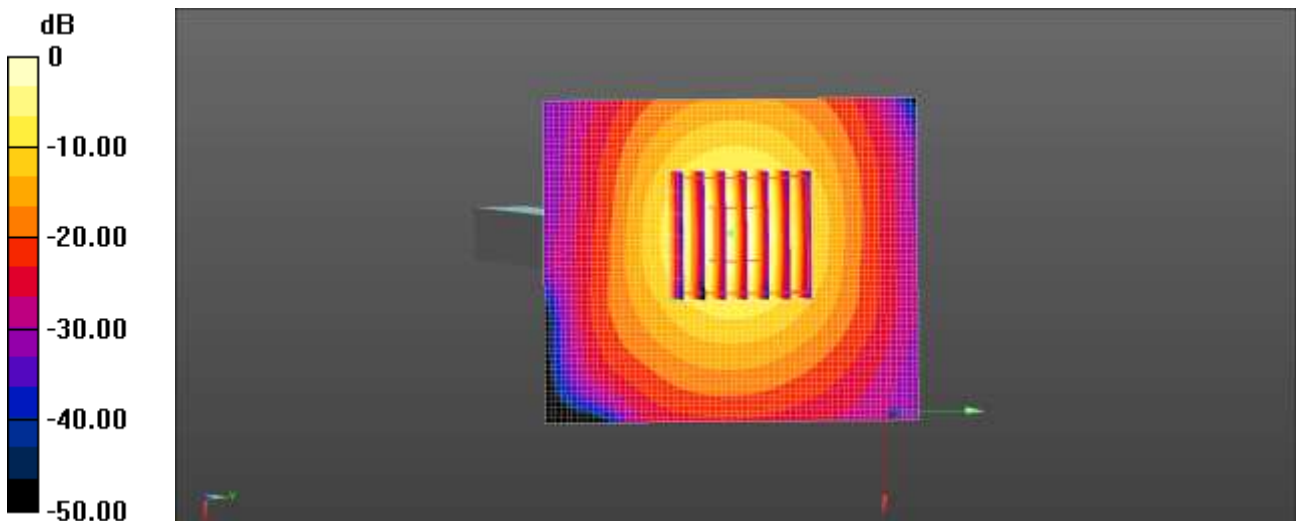
**5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 41.33 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 4.27 W/kg; SAR(10 g) = 1.25 W/kg**

Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 11.6 W/kg = 10.66 dBW/kg

■ **Verification Data (5250 MHz Head)**

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 21.4 °C  
Test Date: 01/09/2023  
Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.67$  S/m;  $\epsilon_r = 36.011$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.6, 5.6, 5.6) @ 5250 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**5250MHz Head Verification/Area Scan (61x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 10.3 W/kg

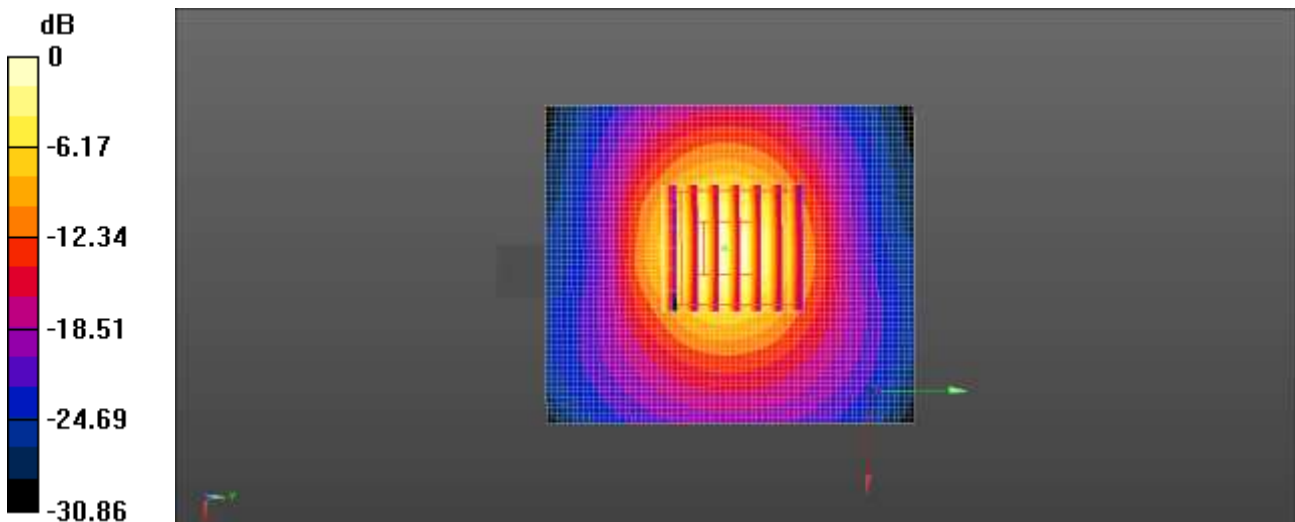
**5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 46.48 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 13.9 W/kg

**SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.23 W/kg**

Maximum value of SAR (measured) = 9.48 W/kg



0 dB = 10.3 W/kg = 10.15 dBW/kg



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

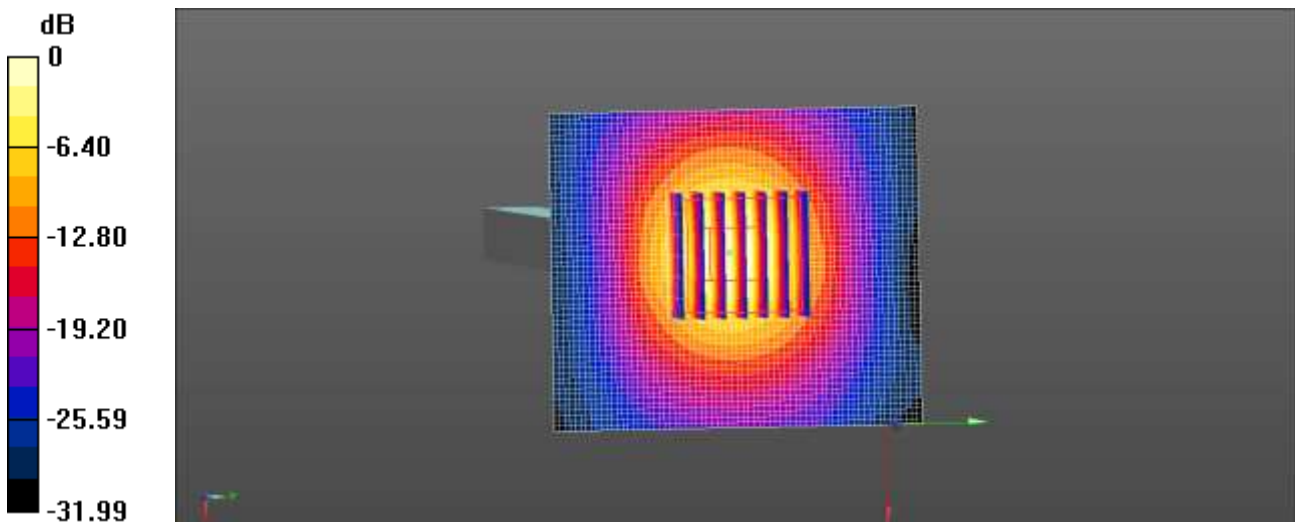
Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 21.4 °C  
Test Date: 01/09/2023  
Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.979$  S/m;  $\epsilon_r = 35.412$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.09, 5.09, 5.09) @ 5600 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**5600MHz Head Verification/Area Scan (61x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 11.6 W/kg

**5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 47.83 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 16.0 W/kg  
**SAR(1 g) = 4.36 W/kg; SAR(10 g) = 1.3 W/kg**  
Maximum value of SAR (measured) = 10.5 W/kg



0 dB = 11.6 W/kg = 10.63 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 21.4 °C  
Test Date: 01/09/2023

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.244$  S/m;  $\epsilon_r = 35.158$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.2, 5.2, 5.2) @ 5750 MHz; Calibrated: 2022-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2022-08-18
- Phantom: Twin-SAM V8.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

**5750MHz Head Verification/Area Scan (61x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 11.5 W/kg

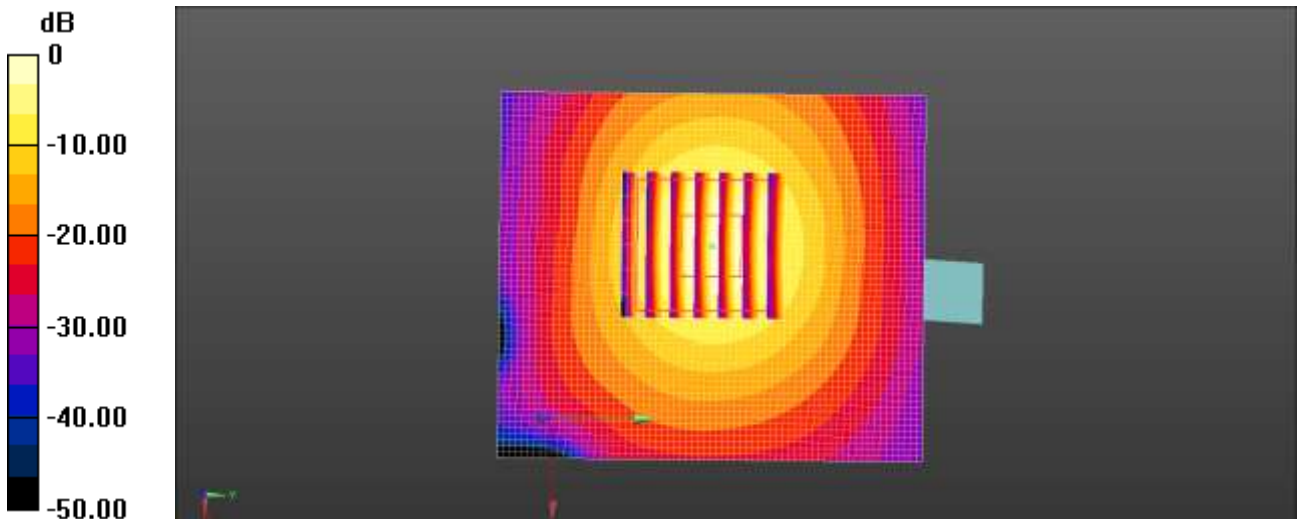
**5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 41.38 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 4.24 W/kg; SAR(10 g) = 1.24 W/kg**

Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 11.5 W/kg = 10.62 dBW/kg

■ **Verification Data (5250 MHz Head)**

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 20.3 °C  
 Test Date: 01/03/2023

**Measurement Report for Device, CW, Channel 0 (5250.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5250.0, 0	5.29	4.81	36.5

**Hardware Setup**

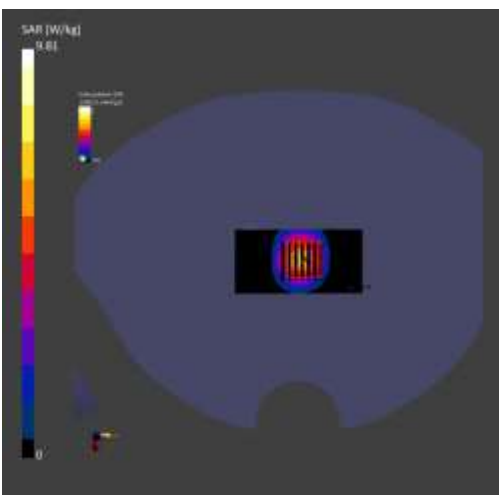
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.57	3.88
psSAR10g [W/Kg]	1.03	1.11
Power Drift [dB]	-0.01	-0.01



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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 20.3 °C  
 Test Date: 01/03/2023

**Measurement Report for Device, CW, Channel 0 (5600.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Channel Number	Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5600.0, 0	4.75	5.11	35.9

**Hardware Setup**

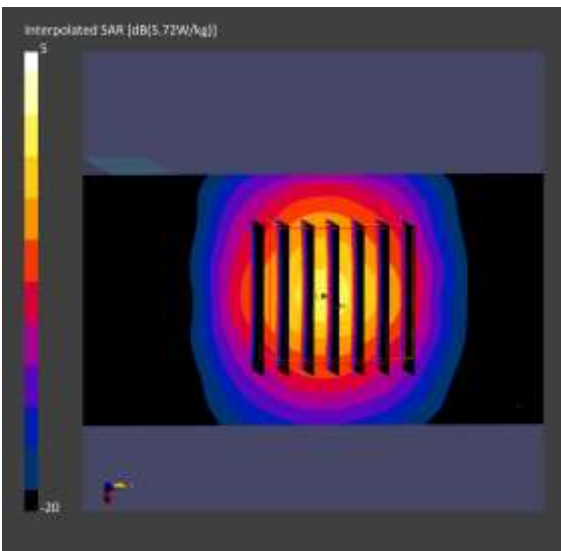
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.73	4.07
psSAR10g [W/Kg]	1.06	1.15
Power Drift [dB]	-0.00	-0.01



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

Test Laboratory: HCT CO., LTD  
 Input Power 0.05 W  
 Liquid Temp: 20.3 °C  
 Test Date: 01/03/2023

**Measurement Report for Device, CW, Channel 0 (5750.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5750.0, 0	4.8	5.39	35.6

**Hardware Setup**

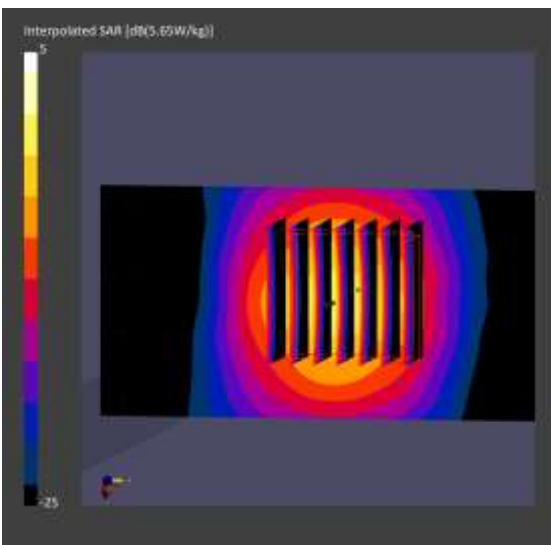
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.68	3.93
psSAR10g [W/Kg]	1.02	1.10
Power Drift [dB]	-0.02	-0.01



■ **Verification Data (5250 MHz Head)**

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 18.8 °C  
 Test Date: 01/04/2023

**Measurement Report for Device, CW, Channel 0 (5250.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5250.0, 0	5.29	4.78	36.4

**Hardware Setup**

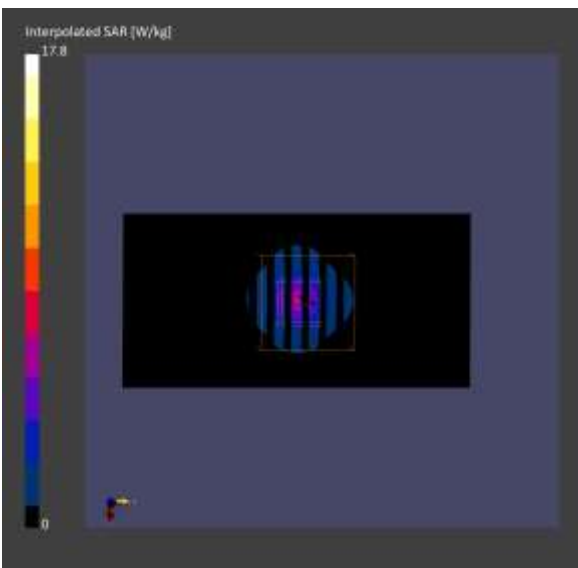
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	4.07	4.31
psSAR10g [W/Kg]	1.10	1.20
Power Drift [dB]	-0.04	-0.04



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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 18.8 °C  
 Test Date: 01/04/2023

**Measurement Report for Device, CW, Channel 0 (5600.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency Channel Number	[MHz], Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5600.0, 0	4.75	5.08	35.8

**Hardware Setup**

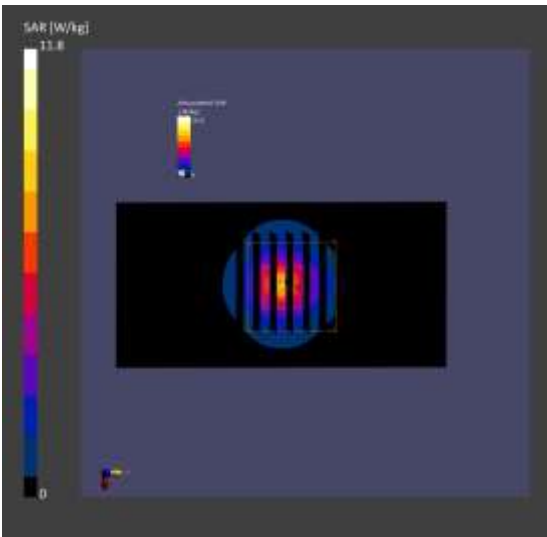
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	4.26	4.48
psSAR10g [W/Kg]	1.14	1.23
Power Drift [dB]	-0.04	-0.03





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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 18.8 °C  
 Test Date: 01/04/2023

**Measurement Report for Device, CW, Channel 0 (5750.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Number	Channel Conversion Factor	TSL [S/m]	Conductivity	TSL Permittivity
Flat, HSL	5750.0, 0	4.8	5.36		35.5

**Hardware Setup**

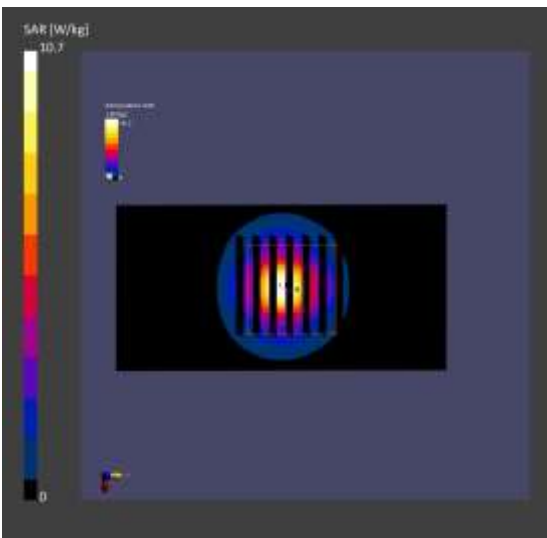
Phantom: Twin-SAM V8.0 (30deg probe tilt) - 2050  
 Probe: EX3DV4 - SN3768, 2022-06-30  
 Calibration Date: DAE, Calibration Date: DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.75	3.98
psSAR10g [W/Kg]	1.02	1.10
Power Drift [dB]	-0.04	-0.02



**- Extremity**

■ **Verification Data (13 MHz Head)**

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 22.2 °C  
Test Date: 01/10/2023

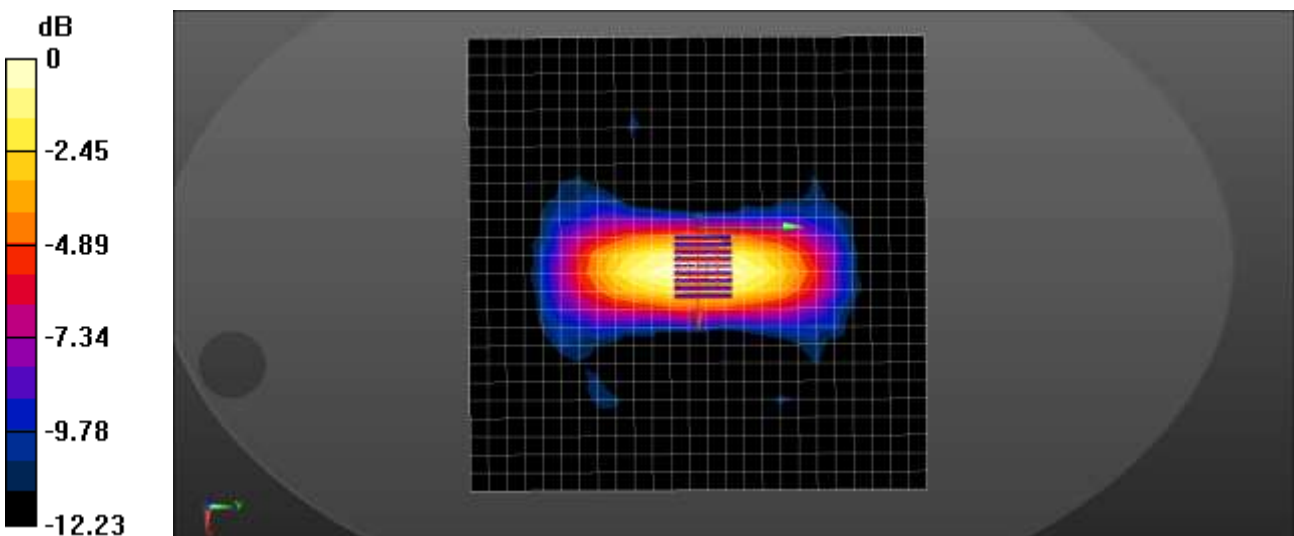
Communication System: UID 0, CW (0); Frequency: 13 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 13 \text{ MHz}$ ;  $\sigma = 0.724 \text{ S/m}$ ;  $\epsilon_r = 54.246$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.75, 5.75, 5.75) @ 13 MHz; Calibrated: 2022-07-20
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1254; Calibrated: 2022-06-15
- Phantom: ELI V4.0 Left (20deg probe tilt); Type: QD OVA 001 Bx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**13MHz Head Verification/Area Scan (26x26x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 0.0313 W/kg

**13MHz Head Verification/Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 6.599 V/m; Power Drift = -0.08 dB  
Peak SAR (extrapolated) = 0.0550 W/kg  
**SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.017 W/kg**  
Maximum value of SAR (measured) = 0.0318 W/kg



0 dB = 0.0318 W/kg = -14.98 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.8 °C  
Test Date: 01/03/2023

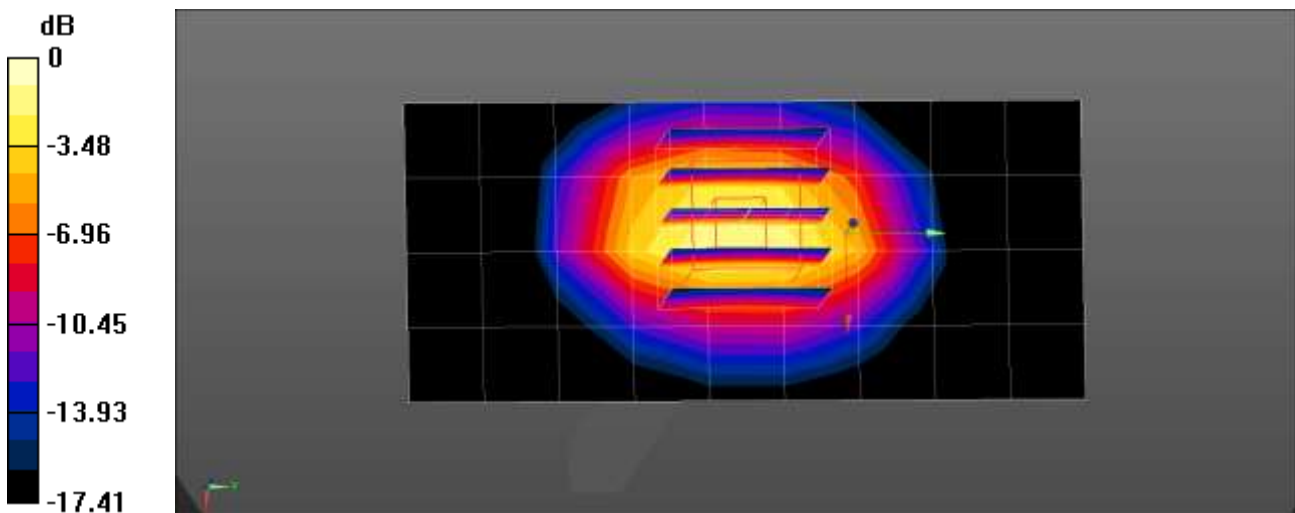
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 39.938$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.68, 8.68, 8.68) @ 1800 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2022-09-21
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**1800MHz Head Verification/Area Scan (5x10x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 2.20 W/kg

**1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 42.85 V/m; Power Drift = 0.12 dB  
Peak SAR (extrapolated) = 3.43 W/kg  
**SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.955 W/kg**  
Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.87 W/kg = 4.58 dBW/kg

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

Test Laboratory: HCT CO., LTD  
Input Power: 0.05 W  
Liquid Temp: 20.6 °C  
Test Date: 01/02/2023

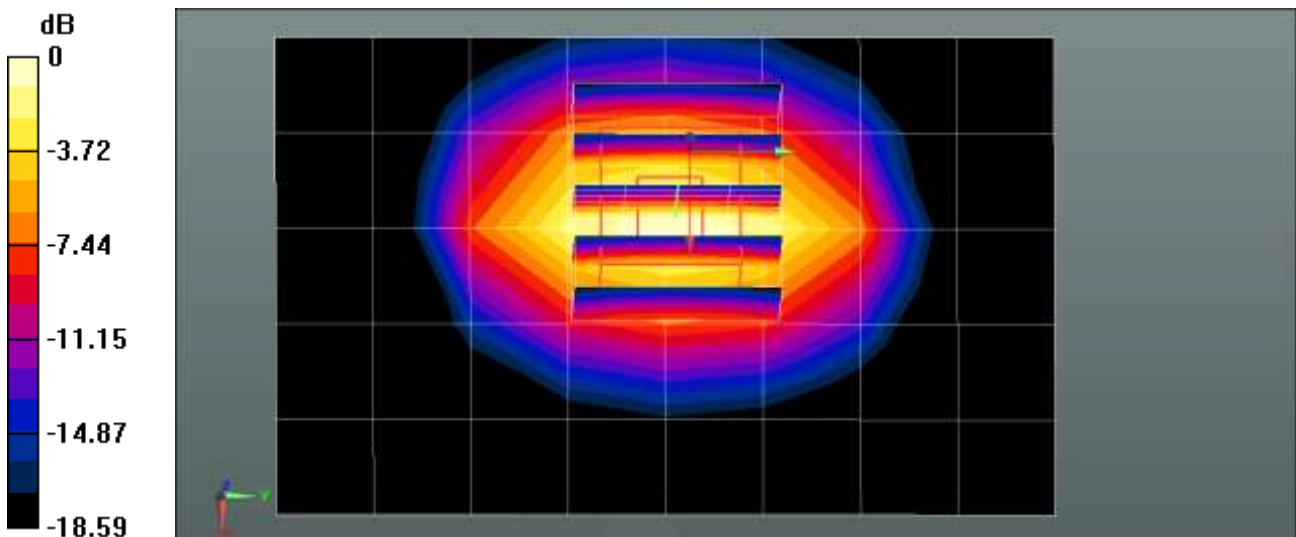
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7751; ConvF(8.03, 8.03, 8.03) @ 1900 MHz; Calibrated: 2022-10-07
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2022-06-15
- Phantom: SAM\_Front\_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**1900MHz Head Verification/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 3.18 W/kg

**1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 37.27 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 3.95 W/kg  
**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.03 W/kg**  
Maximum value of SAR (measured) = 3.27 W/kg



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

■ **Verification Data (5250 MHz Head)**

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 20.3 °C  
 Test Date: 01/03/2023

**Measurement Report for Device, CW, Channel 0 (5250.0 MHz)**

**Exposure Conditions**

Phantom	Section, Frequency [MHz], TSL Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5250.0, 0	5.29	4.81	36.5

**Hardware Setup**

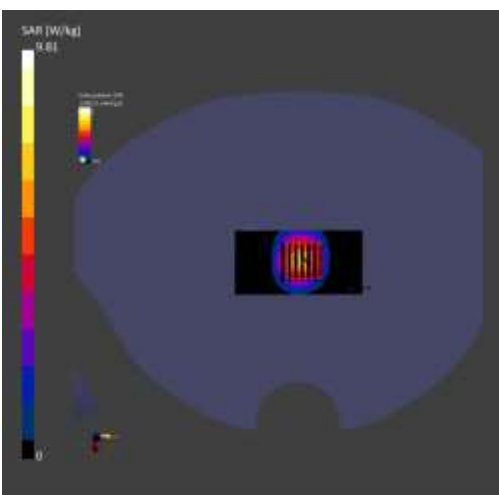
Phantom: Twin-SAM V8.0 (30deg probe tilt) - 2050 EX3DV4 - SN3768, 2022-06-30  
 Probe, Calibration Date: 2022-06-30  
 DAE, Calibration Date: DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.57	3.88
psSAR10g [W/Kg]	1.03	1.11
Power Drift [dB]	-0.01	-0.01



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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 20.3 °C  
 Test Date: 01/03/2023

**Measurement Report for Device, CW, Channel 0 (5600.0 MHz)**

**Exposure Conditions**

Phantom Section, TSL	Frequency [MHz], Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5600.0, 0	4.75	5.11	35.9

**Hardware Setup**

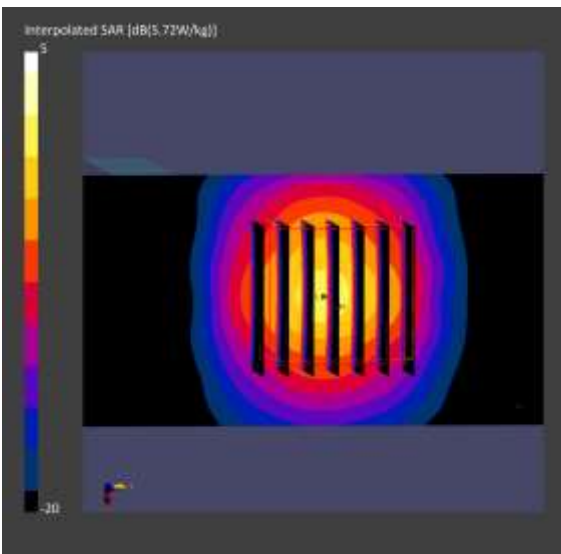
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.73	4.07
psSAR10g [W/Kg]	1.06	1.15
Power Drift [dB]	-0.00	-0.01



■ **Verification Data (5250 MHz Head)**

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 18.8 °C  
 Test Date: 01/04/2023

**Measurement Report for Device, CW, Channel 0 (5250.0 MHz)**

**Exposure Conditions**

Phantom	Section, Frequency [MHz], TSL Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL	5250.0, 0	5.29	4.78	36.4

**Hardware Setup**

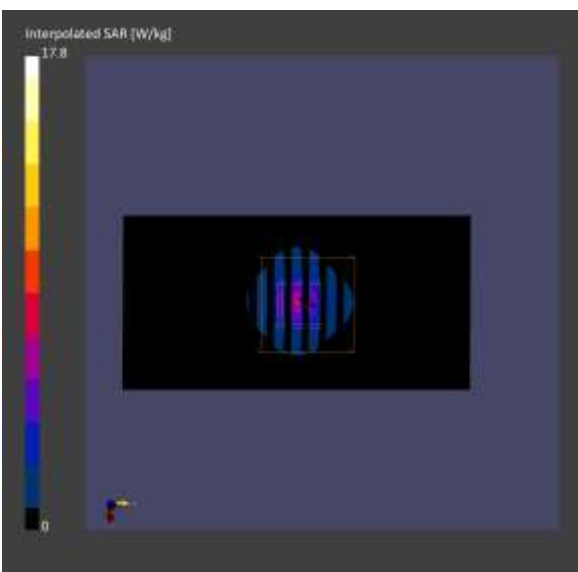
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	4.07	4.31
psSAR10g [W/Kg]	1.10	1.20
Power Drift [dB]	-0.04	-0.04





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

Test Laboratory: HCT CO., LTD  
 Input Power: 0.05 W  
 Liquid Temp: 18.8 °C  
 Test Date: 01/04/2023

**Measurement Report for Device, CW, Channel 0 (5600.0 MHz)**

**Exposure Conditions**

Phantom	Section, TSL	Frequency [MHz], Number	Channel Conversion Factor	TSL [S/m]	Conductivity TSL Permittivity
Flat, HSL		5600.0, 0	4.75	5.08	35.8

**Hardware Setup**

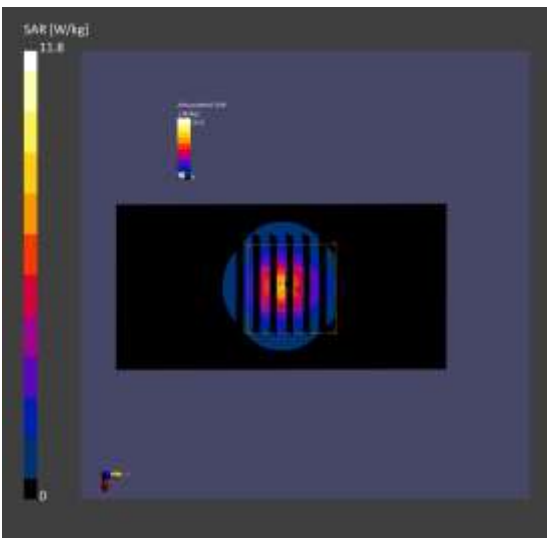
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3768, 2022-06-30	DAE4 Sn1629, 2022-08-17

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	1.5	1.4

**Measurement Results**

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	4.26	4.48
psSAR10g [W/Kg]	1.14	1.23
Power Drift [dB]	-0.04	-0.03



## 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
3	3903	EX3DV4	Head	750	1014	2022-06-09	42.1	0.92	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	835	4d165	2022-08-16	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
19	7702	EX3DV4	Head	835	441	2022-09-10	41.5	0.90	PASS	PASS	PASS	N/A	N/A	N/A
19	7702	EX3DV4	Head	835	441	2022-09-10	41.5	0.90	PASS	PASS	PASS	GMSK	PASS	N/A
21	7751	EX3DV4	Head	835	4d165	2022-10-17	41.4	0.91	PASS	PASS	PASS	N/A	N/A	N/A
21	7751	EX3DV4	Head	1750	2d015	2022-10-17	40.3	1.38	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1750	2d015	2022-07-25	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
20	7732	EX3DV4	Head	1750	2d007	2022-08-14	40.1	1.37	PASS	PASS	PASS	N/A	N/A	N/A
20	7732	EX3DV4	Head	1750	2d007	2022-08-14	40.1	1.37	PASS	PASS	PASS	OFDM	N/A	PASS
19	7702	EX3DV4	Head	1900	5d032	2022-02-08	40.2	1.41	PASS	PASS	PASS	N/A	N/A	N/A
19	7702	EX3DV4	Head	1900	5d032	2022-02-08	40.2	1.41	PASS	PASS	PASS	GMSK	PASS	N/A
21	7751	EX3DV4	Head	1900	5d032	2022-10-17	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1900	5d032	2022-04-05	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1900	5d032	2022-04-05	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
20	7732	EX3DV4	Head	1900	5d032	2022-07-15	40.1	1.40	PASS	PASS	PASS	N/A	N/A	N/A
20	7732	EX3DV4	Head	1900	5d032	2022-07-15	40.1	1.40	PASS	PASS	PASS	GMSK	PASS	N/A
8	7654	EX3DV4	Head	2450	743	2022-06-28	39.2	1.80	PASS	PASS	PASS	OFDM	N/A	PASS
17	7681	EX3DV4	Head	2450	743	2022-11-28	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
4	3968	EX3DV4	Head	2600	1106	2022-10-05	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
16	7622	EX3DV4	Head	5250	1253	2022-11-29	35.9	4.71	PASS	PASS	PASS	OFDM	N/A	PASS
22	3768	EX3DV4	Head	5250	1253	2022-07-13	35.8	4.69	PASS	PASS	PASS	OFDM	N/A	PASS
16	7622	EX3DV4	Head	5600	1253	2022-11-29	35.5	5.07	PASS	PASS	PASS	OFDM	N/A	PASS
22	3768	EX3DV4	Head	5600	1253	2022-07-13	35.4	5.02	PASS	PASS	PASS	OFDM	N/A	PASS
16	7622	EX3DV4	Head	5750	1253	2022-11-29	35.4	5.22	PASS	PASS	PASS	OFDM	N/A	PASS
22	3768	EX3DV4	Head	5750	1253	2022-07-13	35.6	5.22	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	13	1016	2022-12-23	55.0	0.75	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1750	2d015	2022-07-25	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
21	7751	EX3DV4	Head	1900	5d032	2022-10-17	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1900	5d032	2022-04-05	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
22	3768	EX3DV4	Head	5250	1253	2022-07-13	35.8	4.69	PASS	PASS	PASS	OFDM	N/A	PASS
22	3768	EX3DV4	Head	5600	1253	2022-07-13	35.4	5.02	PASS	PASS	PASS	OFDM	N/A	PASS

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.