

Appendix B. – SAR Test Plots

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.9 °C
Ambient Temperature: 22.0 °C
Test Date: 04/15/2022
Plot No.: 1

Communication System: UID 0, CDMA 835MHz FCC (0); Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 41.922$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 836.52 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC0 Head Right Touch 384ch SO55/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.218 W/kg

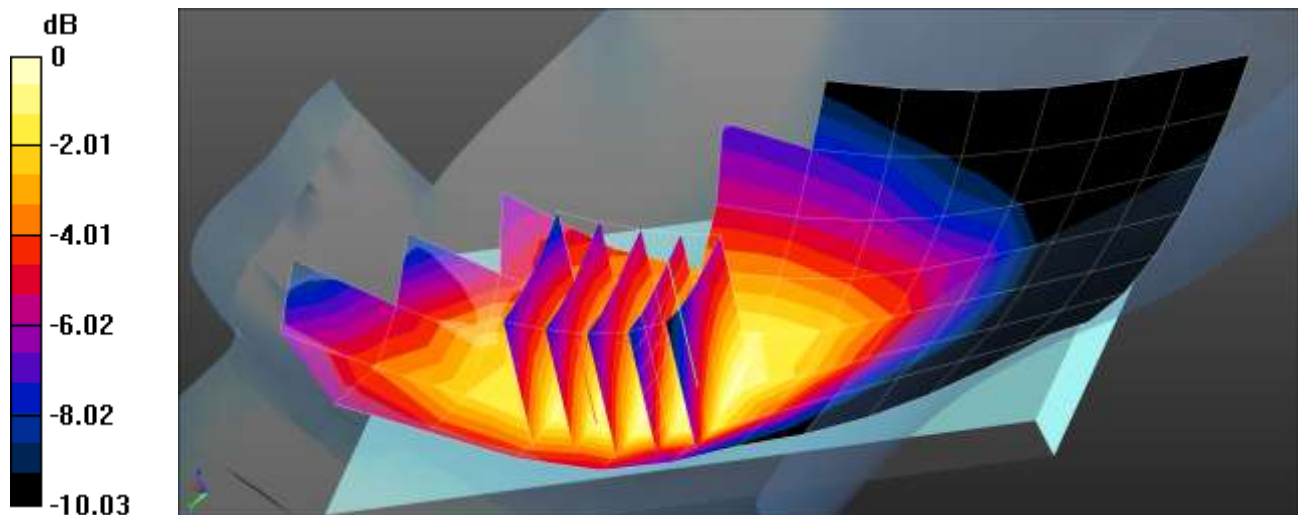
CDMA BC0 Head Right Touch 384ch SO55/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, ds=5mm

Reference Value = 5.060 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.231 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 °C
Ambient Temperature: 20.1 °C
Test Date: 04/25/2022
Plot No.: 2

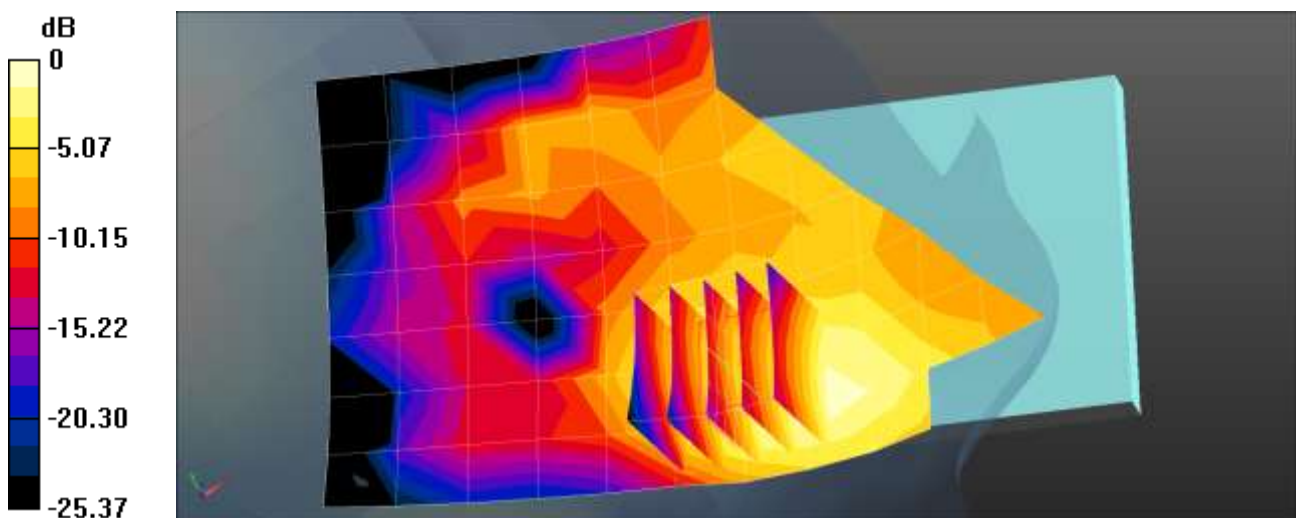
Communication System: UID 0, CDMA BC1(1900MHz) (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.418 \text{ S/m}$; $\epsilon_r = 40.954$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC1 Head Left Touch 600ch SO55 RC3/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.274 W/kg

CDMA BC1 Head Left Touch 600ch SO55 RC3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.812 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.341 W/kg
SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.119 W/kg
Maximum value of SAR (measured) = 0.291 W/kg



0 dB = 0.291 W/kg = -5.36 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1 °C
Ambient Temperature: 21.2 °C
Test Date: 04/18/2022
Plot No.: 3

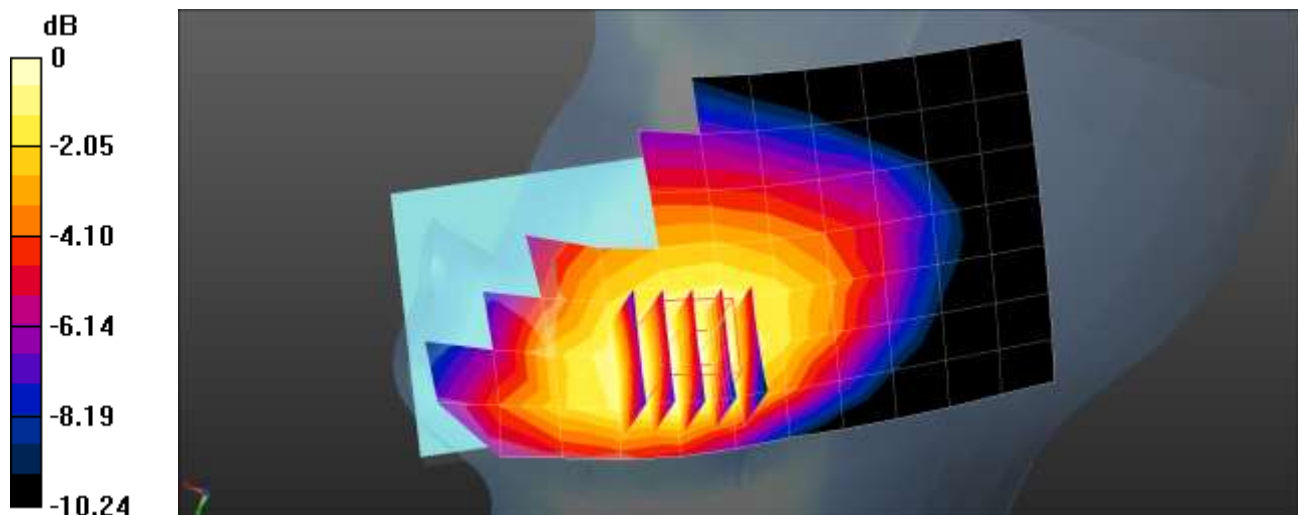
Communication System: UID 0, CDMA BC10 (FCC) (0); Frequency: 820 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 820 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 41.961$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 820 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC10 Head Right Touch 560ch EVDO Reva/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.175 W/kg

CDMA BC10 Head Right Touch 560ch EVDO Rev.A/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.664 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.195 W/kg
SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.118 W/kg
Maximum value of SAR (measured) = 0.179 W/kg



0 dB = 0.179 W/kg = -7.47 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.9 °C
Ambient Temperature: 20.0 °C
Test Date: 04/14/2022
Plot No.: 4

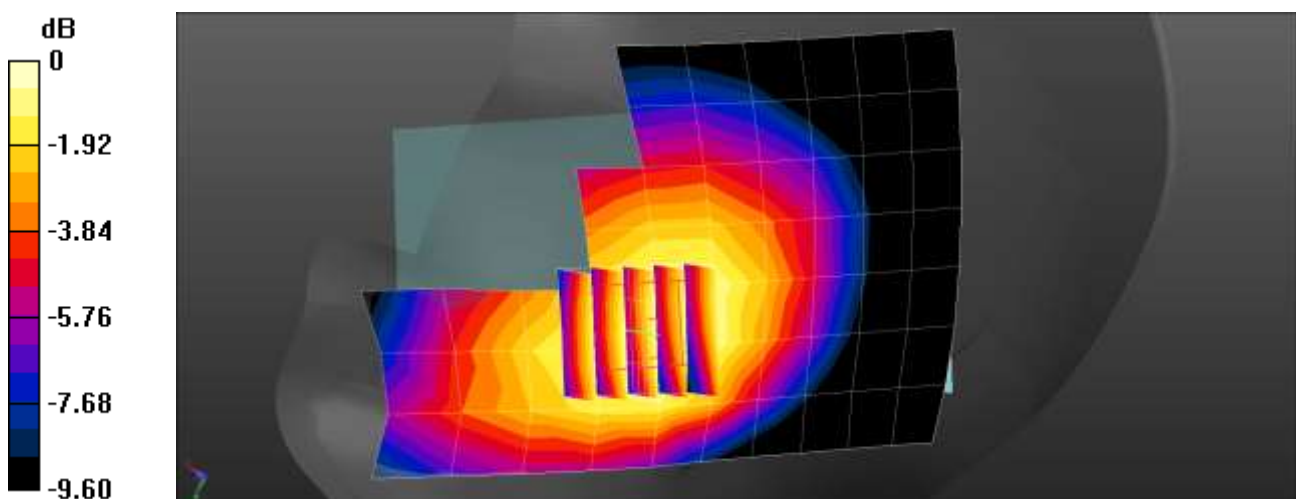
Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.551$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

GSM850 2Tx Head Right Touch 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.327 W/kg

GSM850 2Tx Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.836 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.353 W/kg
SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.206 W/kg
Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/14/2022
Plot No.: 5

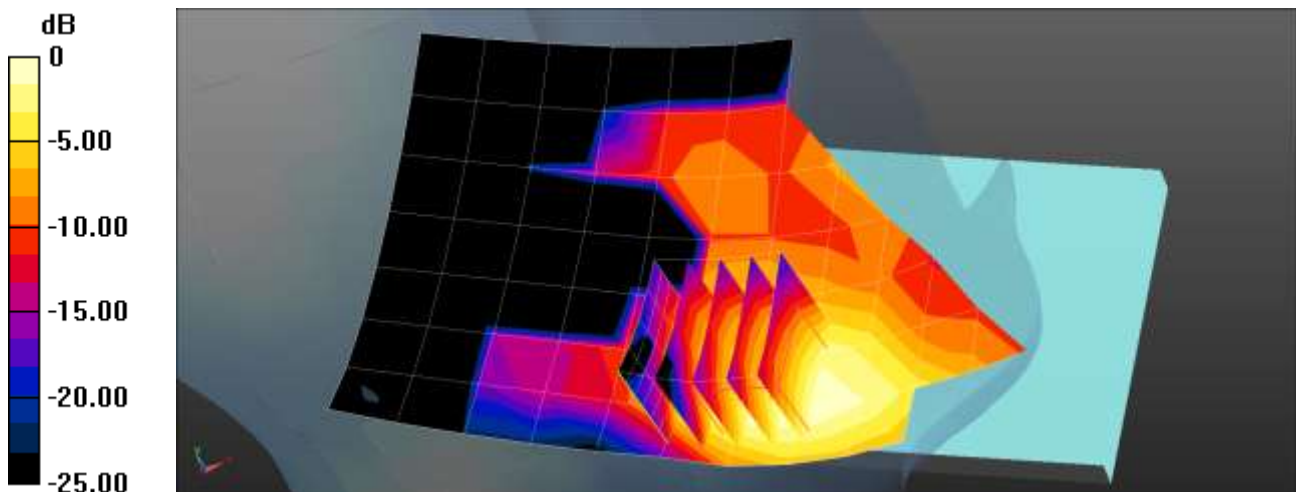
Communication System: UID 0, GSM 1900 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.77013
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 40.776$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

GSM1900 3Tx Head Left Touch 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.103 W/kg

GSM1900 3Tx Head Left Touch 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.248 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.123 W/kg
SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.044 W/kg
Maximum value of SAR (measured) = 0.102 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6 °C
Ambient Temperature: 19.8 °C
Test Date: 04/13/2022
Plot No.: 6

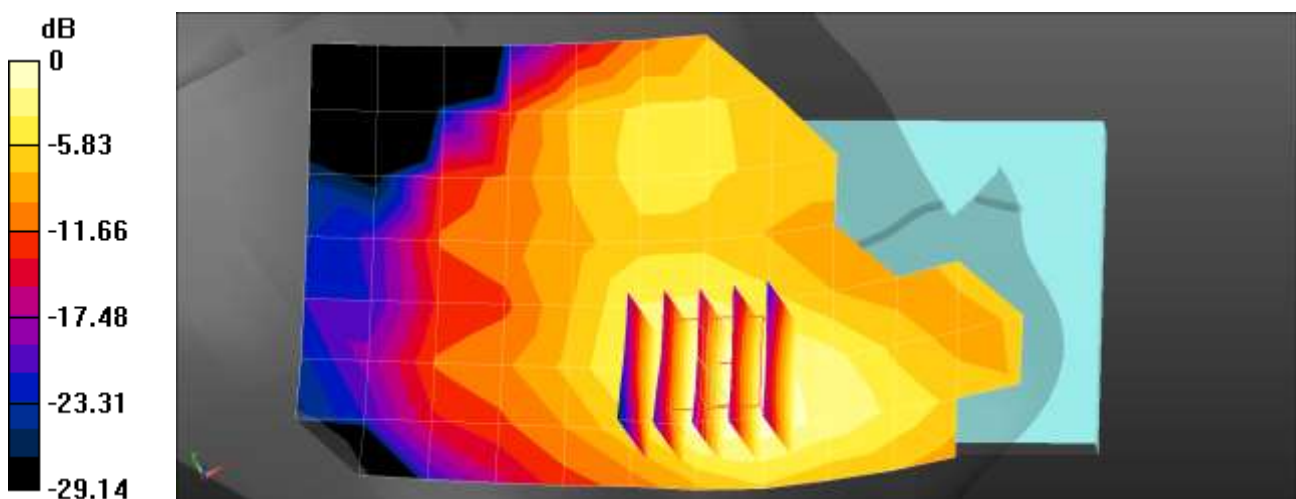
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.579$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 5 Head Left Touch 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.132 W/kg

UMTS Band 5 Head Left Touch 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.307 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.180 W/kg
SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.053 W/kg
Maximum value of SAR (measured) = 0.149 W/kg



0 dB = 0.149 W/kg = -8.27 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 °C
Ambient Temperature: 19.2 °C
Test Date: 04/13/2022
Plot No.: 7

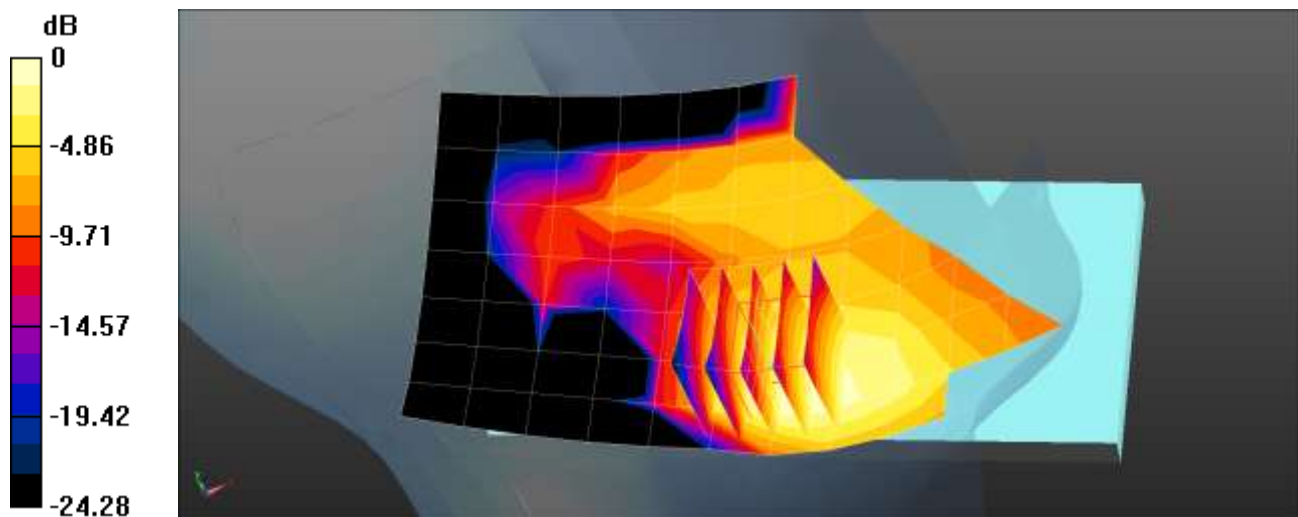
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 41.624$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1732.4 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 4 Head Left Touch 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.191 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.610 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.102 W/kg
Maximum value of SAR (measured) = 0.229 W/kg



0 dB = 0.229 W/kg = -6.40 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.7 °C
Ambient Temperature: 19.7 °C
Test Date: 04/12/2022
Plot No.: 8

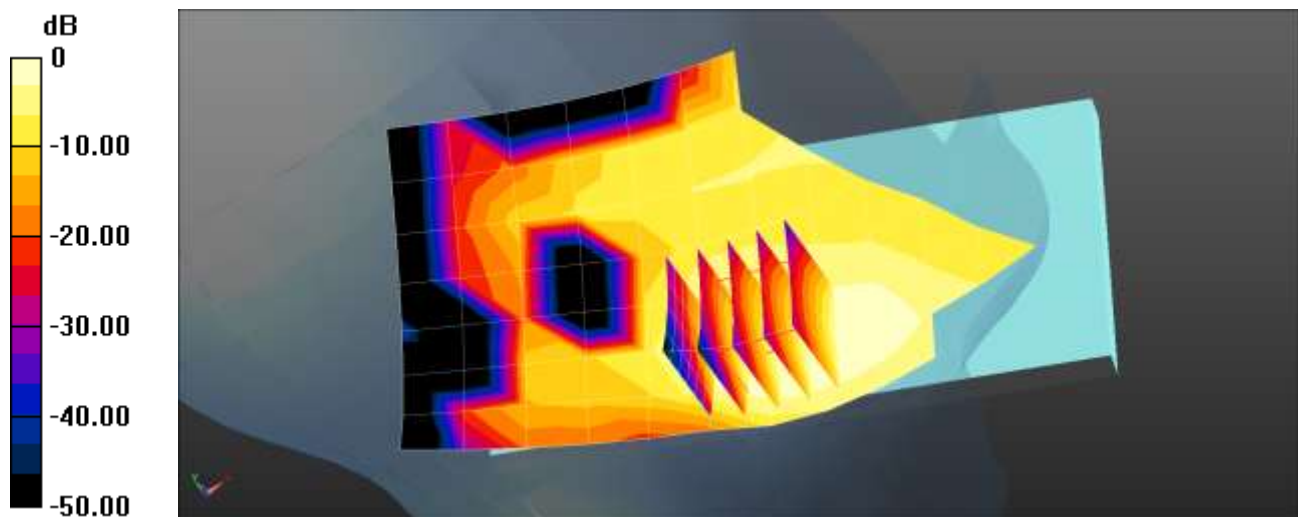
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.408 \text{ S/m}$; $\epsilon_r = 40.947$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 2 Head Left Touch 9400ch/Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.236 W/kg

UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.923 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.332 W/kg
SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.119 W/kg
Maximum value of SAR (measured) = 0.282 W/kg



0 dB = 0.236 W/kg = -6.28 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.3°C
Ambient Temperature: 22.4°C
Test Date: 04/14/2022
Plot No.: 9

Measurement Report for Device, CHEEK, Band 7, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK), Channel 21350 (2560.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 7, E-UTRA/FDD	LTE-FDD, 10169-CAE	2560.0, 21350	7.57	1.85	38.9

Hardware Setup

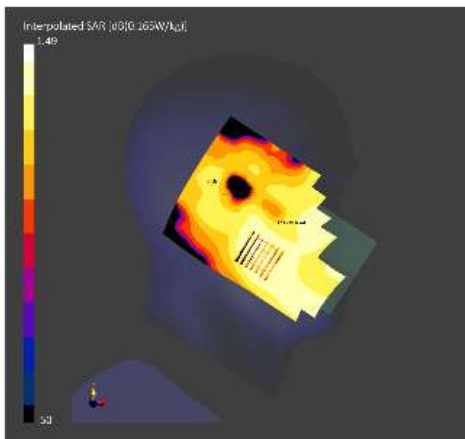
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
Surface Detection	VMS + 6p	VMS + 6p

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.130	0.130
psSAR10g [W/Kg]	0.067	0.067
Power Drift [dB]	0.15	0.15



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.9°C
Ambient Temperature: 21.1°C
Test Date: 04/13/2022
Plot No.: 10

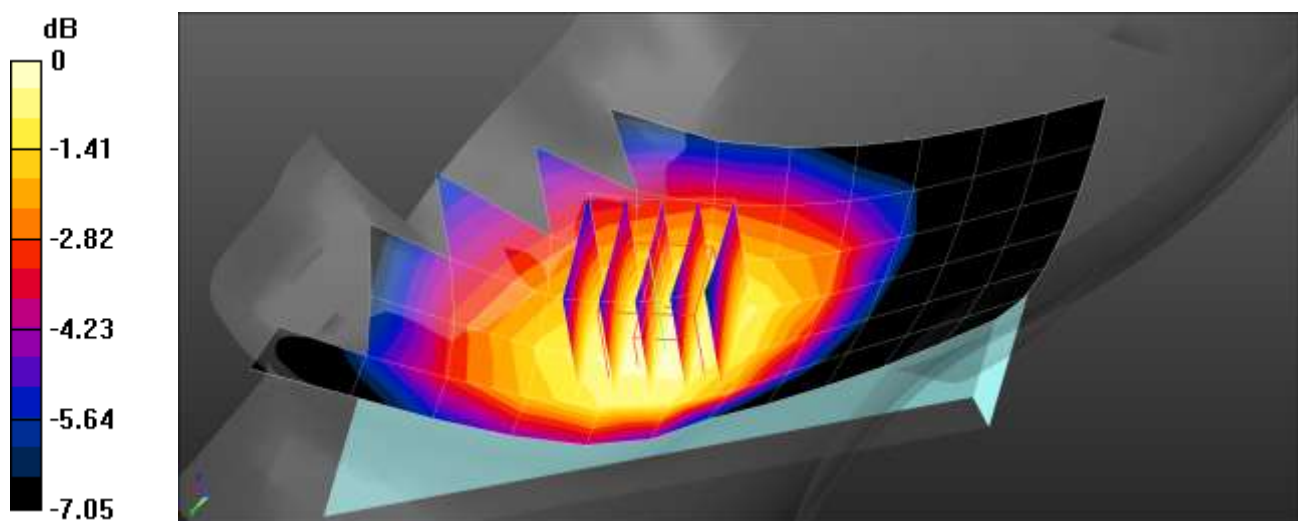
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 43.183$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 707.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 12 Head Right Touch QPSK 10MHz 1RB 0offset 23095ch/Area Scan (7x14x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.140 W/kg

LTE Band 12 Head Right Touch QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.523 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.147 W/kg
SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.106 W/kg
Maximum value of SAR (measured) = 0.142 W/kg



0 dB = 0.142 W/kg = -8.48 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.1°C
Ambient Temperature: 20.1°C
Test Date: 04/14/2022
Plot No.: 11

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 42.044$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

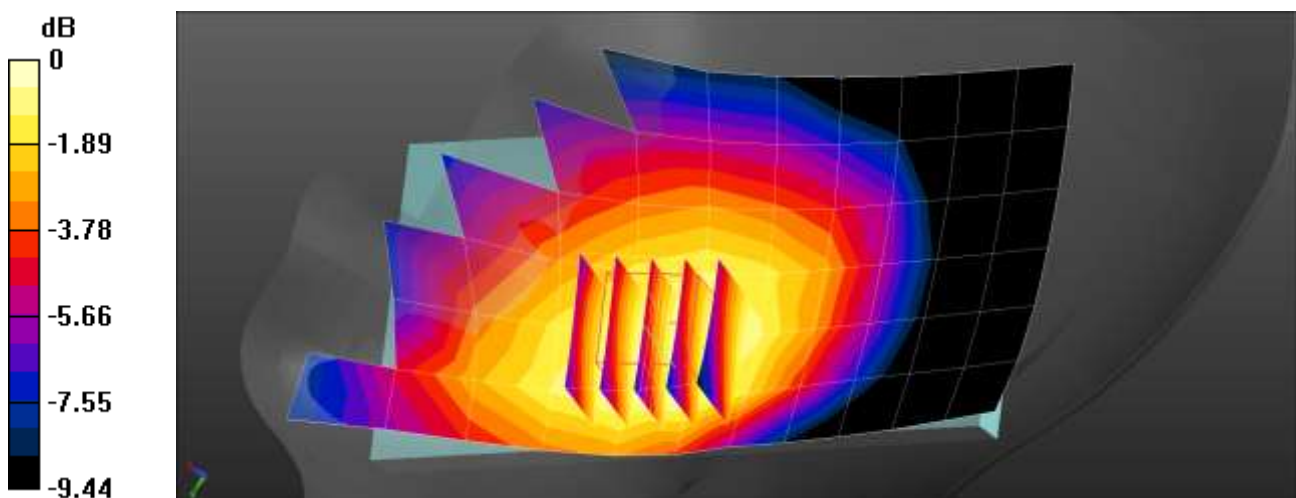
- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 782 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 13 Head Right Touch QPSK 10MHz 1RB 49offset 23230ch/Area Scan (7x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.197 W/kg

LTE Band 13 Head Right Touch QPSK 10MHz 1RB 49offset 23230ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.945 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.218 W/kg
SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.143 W/kg
Maximum value of SAR (measured) = 0.205 W/kg



0 dB = 0.205 W/kg = -6.88 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.9°C
Ambient Temperature: 19.9°C
Test Date: 04/15/2022
Plot No.: 12

Communication System: UID 0, LTE 14 (0); Frequency: 793 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 793 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

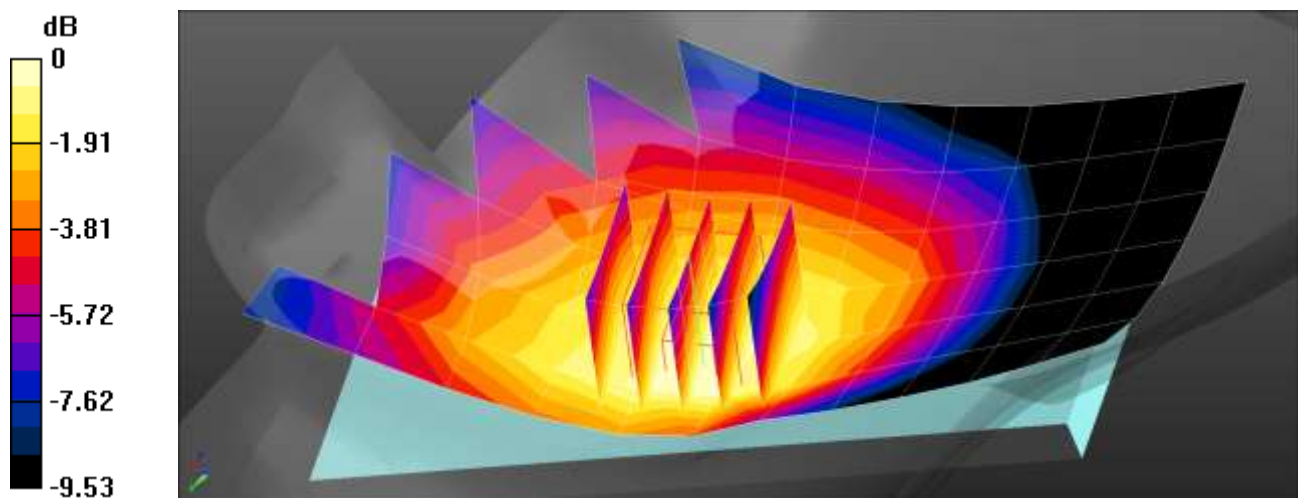
- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 793 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 14 Head Right Touch QPSK 10MHz 1RB 24offset 23330ch/Area Scan (7x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.244 W/kg

LTE Band 14 Head Right Touch QPSK 10MHz 1RB 24offset 23330ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.239 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.272 W/kg
SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.180 W/kg
Maximum value of SAR (measured) = 0.257 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.2°C
Test Date: 04/21/2022
Plot No.: 13

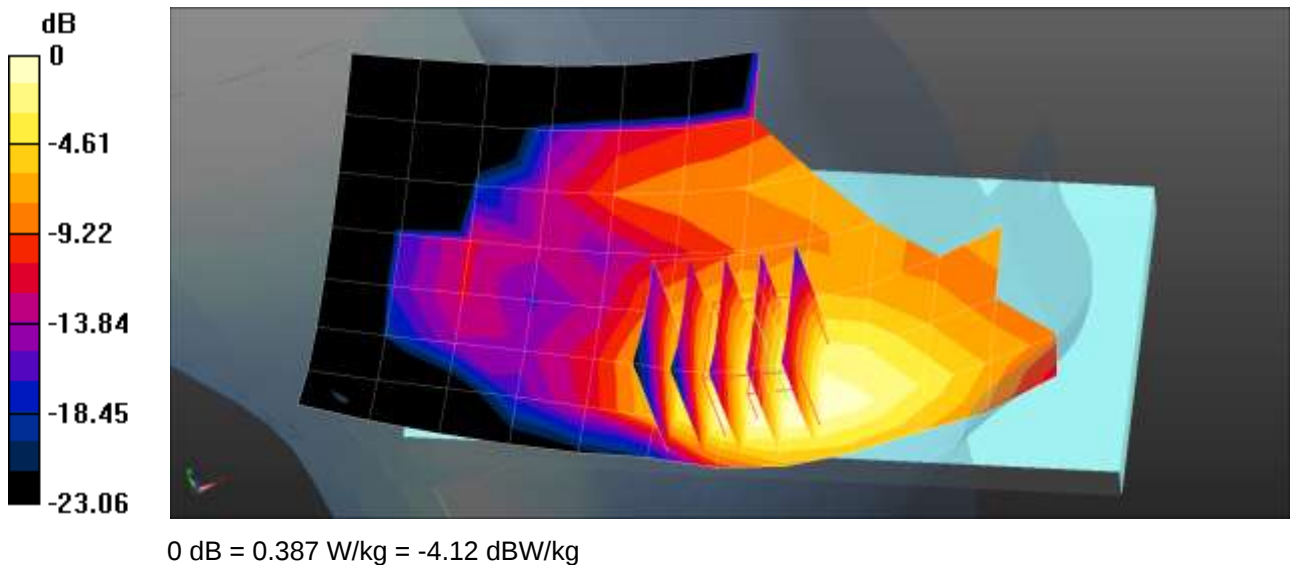
Communication System: UID 0, LTE Band 25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.637$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1882.5 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 25 Head Left Touch QPSK 20MHz 1RB 49offset 26365ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.371 W/kg

LTE Band 25 Head Left Touch QPSK 20MHz 1RB 49offset 26365ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.717 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.448 W/kg
SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.166 W/kg
Maximum value of SAR (measured) = 0.387 W/kg



Test Laboratory: HCT CO., LTD

EUT Type: Mobile Phone
Liquid Temperature: 19.4°C
Ambient Temperature: 19.5°C
Test Date: 04/18/2022
Plot No.: 14

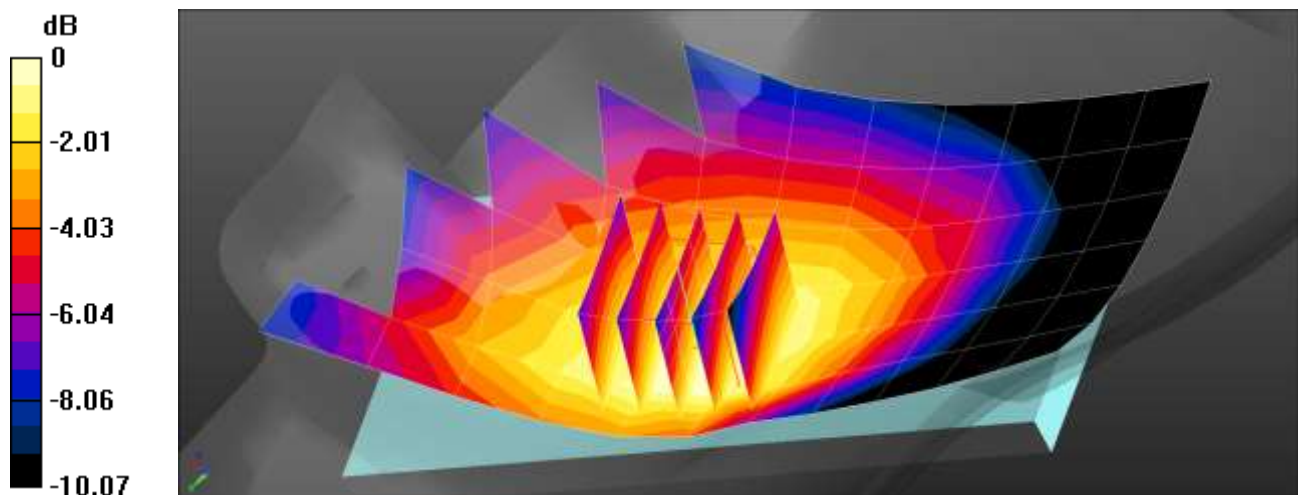
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 41.652$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.4, 10.4, 10.4) @ 831.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 26 Head Right Touch QPSK 15MHz 1RB 0offset 26865ch/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.211 W/kg

LTE Band 26 Head Right Touch QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.783 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.239 W/kg
SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.145 W/kg
Maximum value of SAR (measured) = 0.221 W/kg



0 dB = 0.221 W/kg = -6.56 dBW/kg

Test Laboratory: HCT CO., LTD

EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 04/19/2022
Plot No.: 15

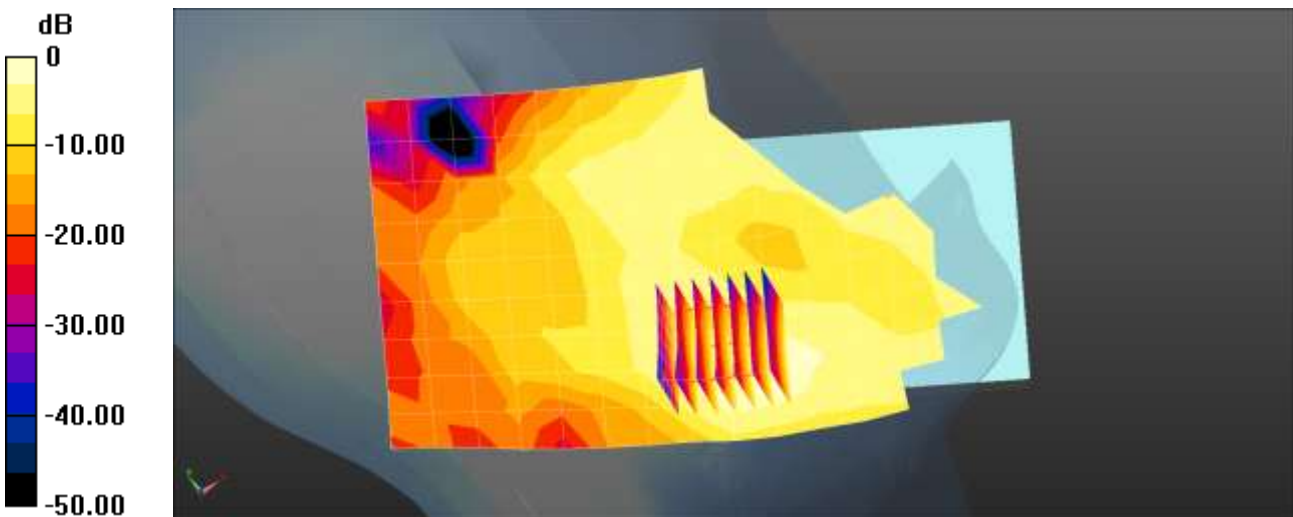
Communication System: UID 0, LTE Band 30 (0); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2310$ MHz; $\sigma = 1.723$ S/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.94, 4.94, 4.94) @ 2310 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 30 Head Left Touch QPSK 10MHz 1RB 49offset 27710ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0856 W/kg

LTE Band 30 Head Left Touch QPSK 10MHz 1RB 49offset 27710ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.414 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.122 W/kg
SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.039 W/kg
Maximum value of SAR (measured) = 0.0850 W/kg



0 dB = 0.0856 W/kg = -10.67 dBW/kg

Test Laboratory: HCT CO., LTD
 EUT Type: Mobile Phone
 Liquid Temperature: 20.6°C
 Ambient Temperature: 20.7°C
 Test Date: 04/15/2022
 Plot No.: 16

LTE Band 40, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition: 38750 (2310.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	156.0 x 79.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 40, E-UTRA/TDD	LTE-TDD, 10237-CAG	2310.0, 38750	7.77	1.72	39.9

Hardware Setup

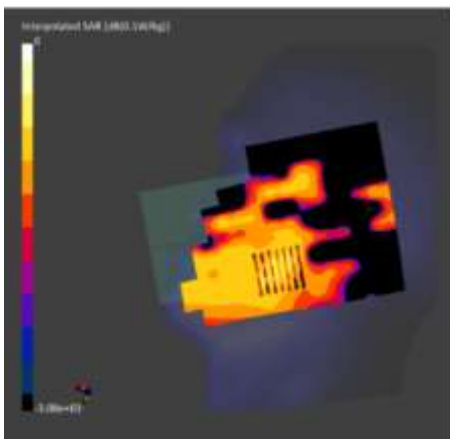
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

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
Graded Grid	Yes	Yes

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.006	0.006
psSAR10g [W/Kg]	0.003	0.003
Power Drift [dB]	-0.16	-0.16



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5°C
Ambient Temperature: 20.7°C
Test Date: 04/18/2022
Plot No.: 17

LTE Band 40, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) Channel 39200 (2355.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	156.0 x 79.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 40, E-UTRA/TDD	LTE-TDD, 10237-CAG	2355.0, 39200	7.77	1.76	39.8

Hardware Setup

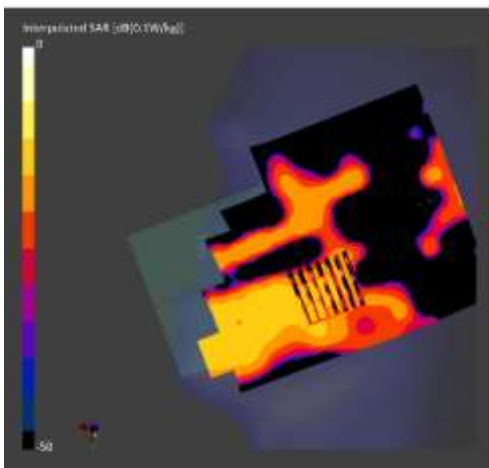
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
Surface Detection	VMS + 6p	VMS + 6p

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.003	0.004
psSAR10g [W/Kg]	0.002	0.002
Power Drift [dB]	-0.10	-0.10



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 23.7°C
Ambient Temperature: 23.8°C
Test Date: 04/15/2022
Plot No.: 18

Measurement Report for Device, CHEEK, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 40620 (2593.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 41, E-UTRA/TDD	LTE-TDD, 10435-AAF	2593.0, 40620	7.57	1.88	38.8

Hardware Setup

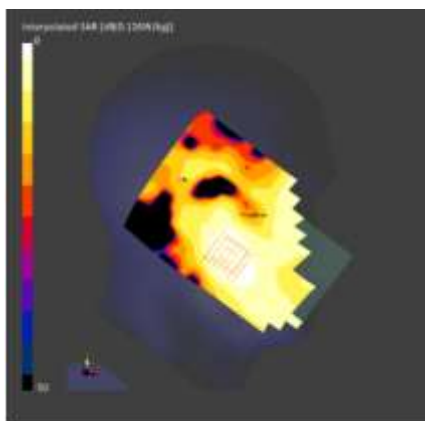
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.099	0.098
psSAR10g [W/Kg]	0.051	0.050
Power Drift [dB]	-0.14	-0.14



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.3°C
Ambient Temperature: 21.4°C
Test Date: 04/21/2022
Plot No.: 19

Measurement Report for Device, CHEEK, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 40620 (2593.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 41, E-UTRA/TDD	LTE-TDD, 10435-AAF	2593.0, 40620	7.57	1.96	38.0

Hardware Setup

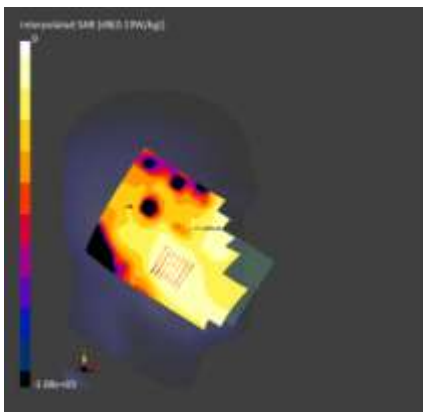
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.150	0.150
psSAR10g [W/Kg]	0.078	0.078
Power Drift [dB]	0.17	0.17



Test Laboratory: HCT CO., LTD
 EUT Type: Mobile Phone
 Liquid Temperature: 19.2°C
 Ambient Temperature: 19.3°C
 Test Date: 04/19/2022
 Plot No.: 20
 Communication System: UID 0, LTE 48 (0); Frequency: 3560 MHz; Duty Cycle: 1:1.58125
 Medium parameters used: $f = 3560$ MHz; $\sigma = 2.962$ S/m; $\epsilon_r = 37.556$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.15, 7.15, 7.15) @ 3560 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 48 Head Right Tilt QPSK 20MHz 50RB 49offset 55340ch/Area Scan (10x17x1): Measurement grid: $x=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.693 W/kg

LTE Band 48 Head Right Tilt QPSK 20MHz 50RB 49offset 55340ch/Zoom Scan (7x7x8)/Cube 0:

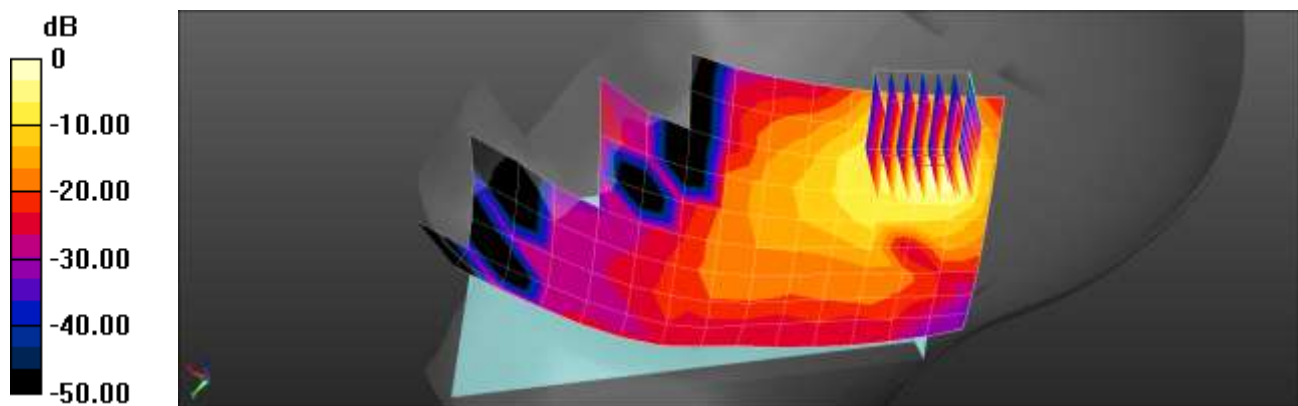
Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 1.530 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.693 W/kg = -1.59 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4°C
Ambient Temperature: 20.5°C
Test Date: 04/19/2022
Plot No.: 21

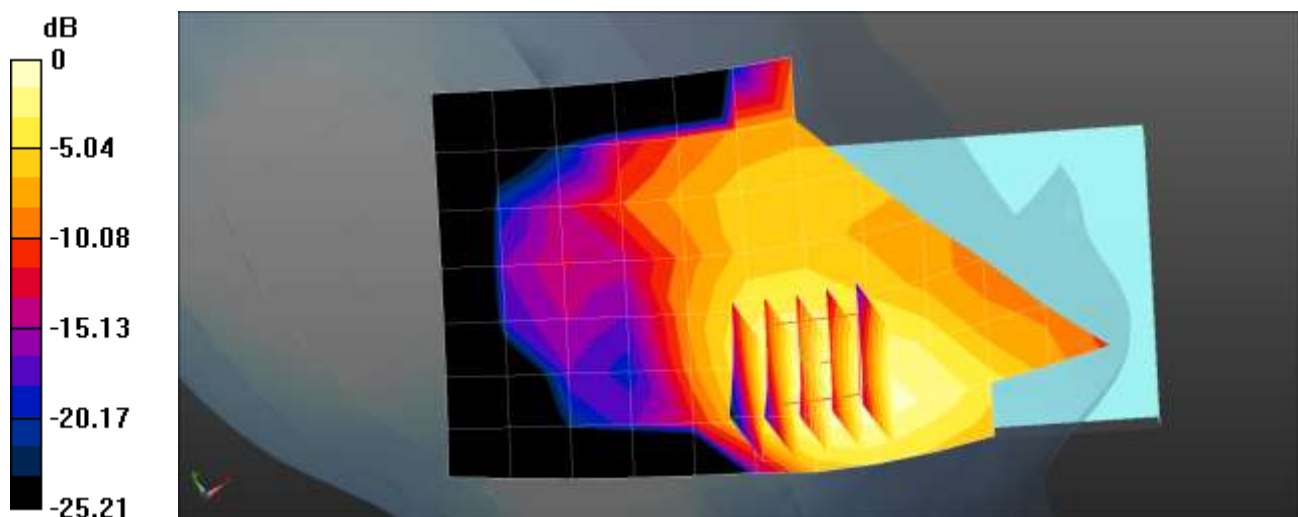
Communication System: UID 0, LTE 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1770$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 41.464$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1770 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 66 Head Left Touch QPSK 20MHz 1RB 0offset 132572ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.334 W/kg

LTE Band 66 Head Left Touch QPSK 20MHz 1RB 0offset 132572ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.902 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.447 W/kg
SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.175 W/kg
Maximum value of SAR (measured) = 0.387 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.9°C
Test Date: 04/12/2022
Plot No.: 22

Communication System: UID 0, LTE 71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 43.602$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

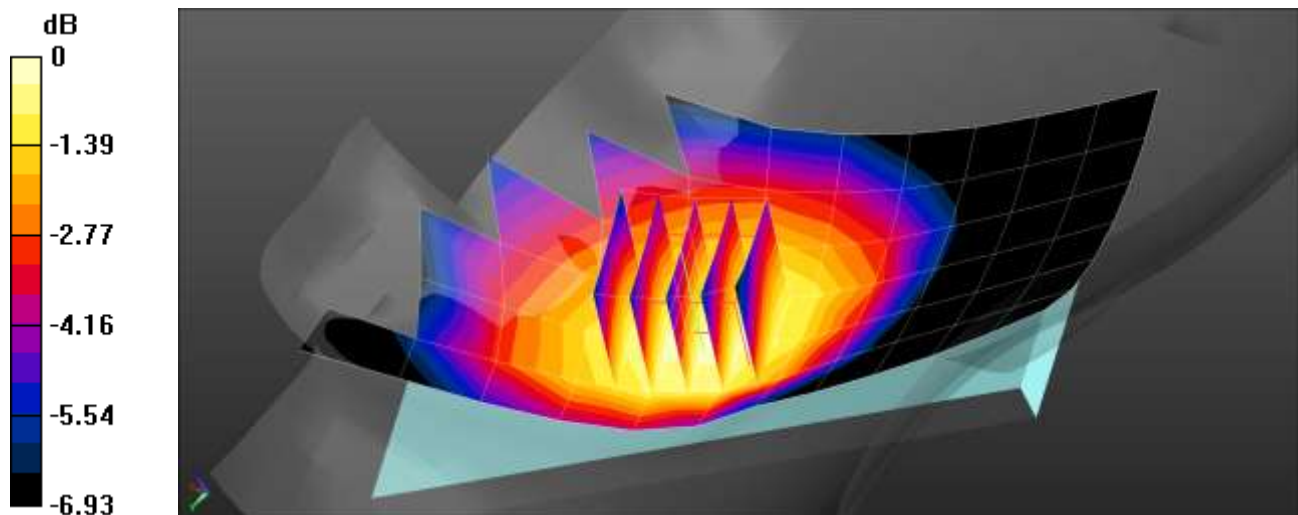
- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 680.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 71 Head Right Touch QPSK 20MHz 1RB 49offset 133297ch/Area Scan (7x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.127 W/kg

LTE Band 71 Head Right Touch QPSK 20MHz 1RB 49offset 133297ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.201 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.136 W/kg
SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.098 W/kg
Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg = -8.79 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.8°C
Ambient Temperature: 21.9°C
Test Date: 04/19/2022
Plot No.: 23

Communication System: UID 0, NR n5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.419$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

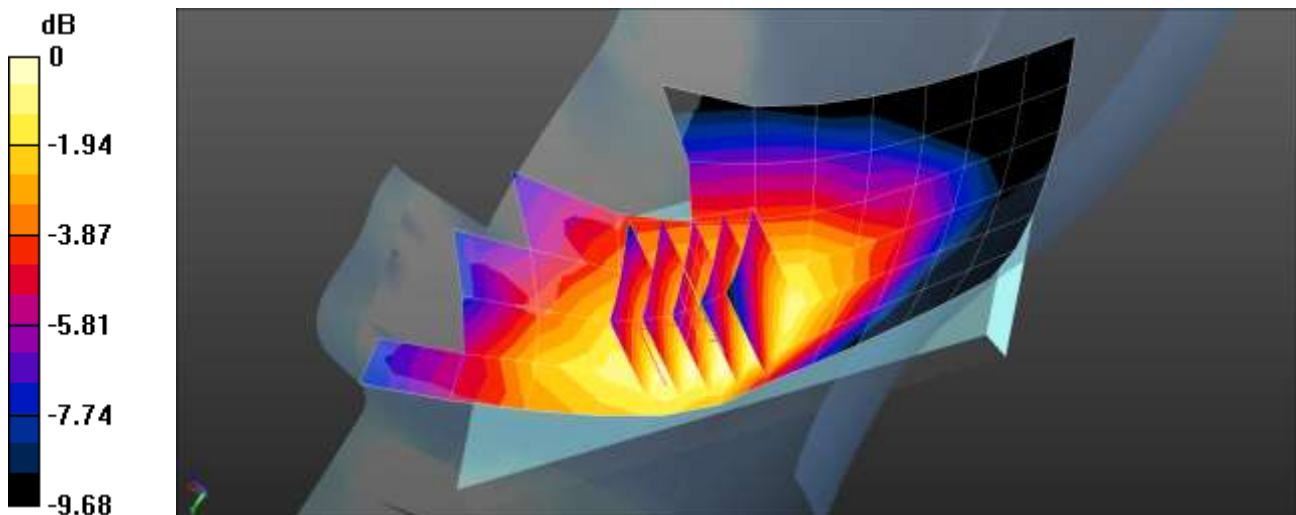
- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 836.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 5 Head Right Touch DFT-s QPSK 20MHz 50RB 28offset 167300ch/Area Scan (7x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0929 W/kg

NR Band 5 Head Right Touch DFT-s QPSK 20MHz 50RB 28offset 167300ch/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.882 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.103 W/kg
SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.063 W/kg
Maximum value of SAR (measured) = 0.0957 W/kg



0 dB = 0.0957 W/kg = -10.19 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.1°C
Test Date: 04/20/2022
Plot No.: 24

Communication System: UID 0, NR n12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5 \text{ MHz}$; $\sigma = 0.864 \text{ S/m}$; $\epsilon_r = 43.265$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

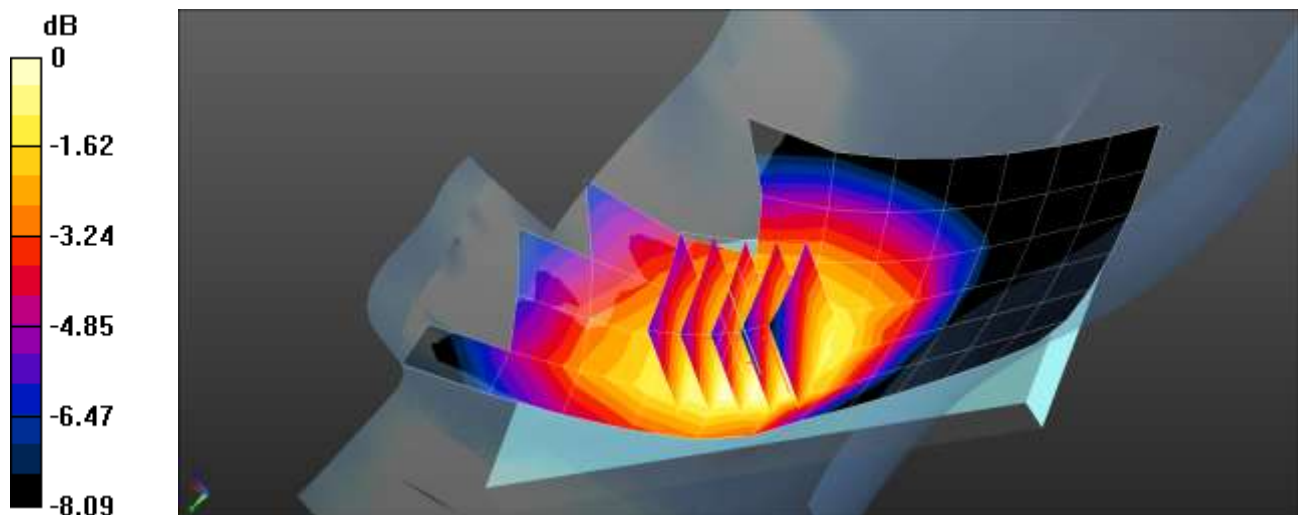
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 707.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 12 Head Right Touch DFT-s QPSK 15MHz 1RB 1offset 141500ch/Area Scan (7x14x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.0831 W/kg

NR Band 12 Head Right Touch DFT-s QPSK 15MHz 1RB 1offset 141500ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.265 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.0920 W/kg
SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.062 W/kg
Maximum value of SAR (measured) = 0.0865 W/kg



0 dB = 0.0865 W/kg = -10.63 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1°C
Ambient Temperature: 19.2°C
Test Date: 04/28/2022
Plot No.: 25

Communication System: UID 0, n25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.88$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

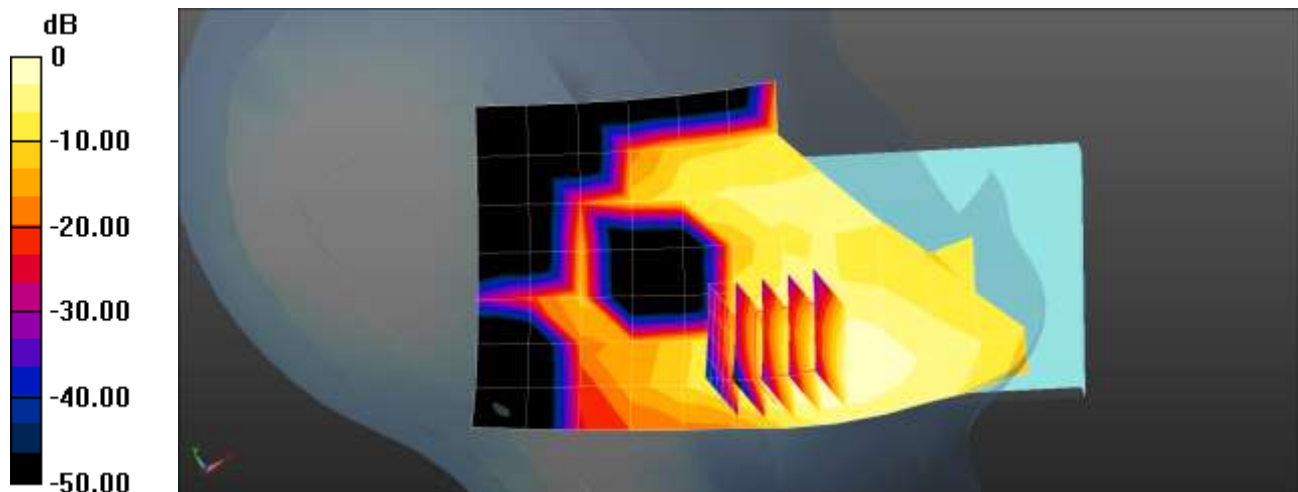
- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1882.5 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n25 Head Left Touch DFT-S QPSK 40MHz 108RB 54offset 376500ch/Area Scan (8x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.194 W/kg

NR Band n25 Head Left Touch DFT-S QPSK 40MHz 108RB 54offset 376500ch/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.460 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.226 W/kg
SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.079 W/kg
Maximum value of SAR (measured) = 0.191 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.1°C
Ambient Temperature: 20.2°C
Test Date: 04/26/2022
Plot No.: 26

Communication System: UID 0, NR n30 (0); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2310$ MHz; $\sigma = 1.722$ S/m; $\epsilon_r = 39.904$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

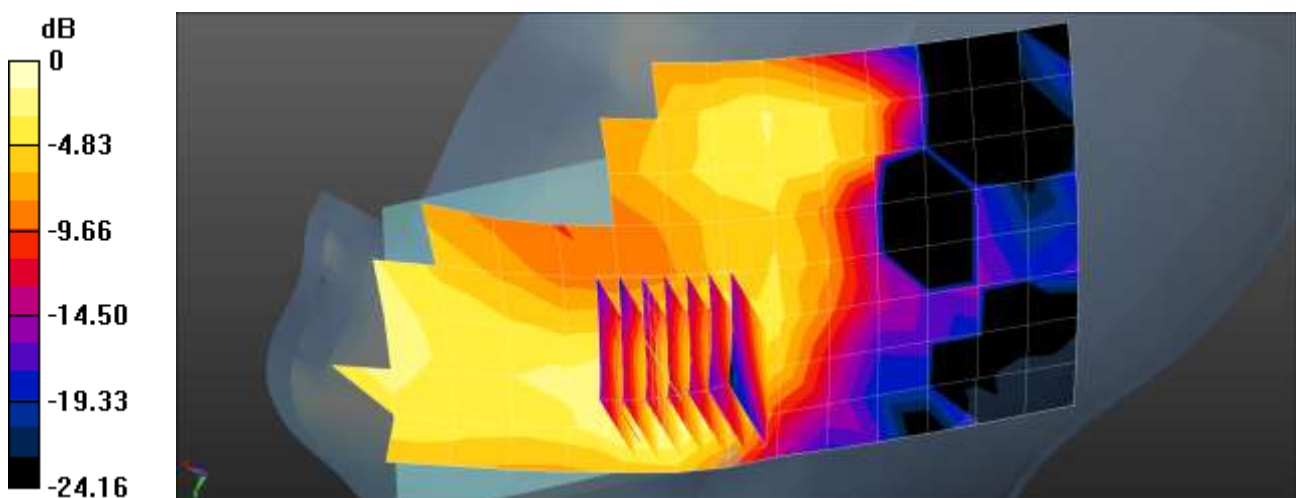
- Probe: EX3DV4 - SN7702; ConvF(8.49, 8.49, 8.49) @ 2310 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n30 Head Right Touch DFT-s QPSK 10MHz 1RB 26offset 462000ch/Area Scan (9x17x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm
Maximum value of SAR (measured) = 0.139 W/kg

NR Band n30 Head Right Touch DFT-s QPSK 10MHz 1RB 26offset 462000ch/Zoom Scan (7x7x7)/Cube

0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 0 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.059 W/kg
Maximum value of SAR (measured) = 0.166 W/kg



0 dB = 0.166 W/kg = -7.80 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.1°C
Test Date: 04/25/2022
Plot No.: 27

Communication System: UID 0, NR Band n41 (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2592.99$ MHz; $\sigma = 1.883$ S/m; $\epsilon_r = 38.784$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

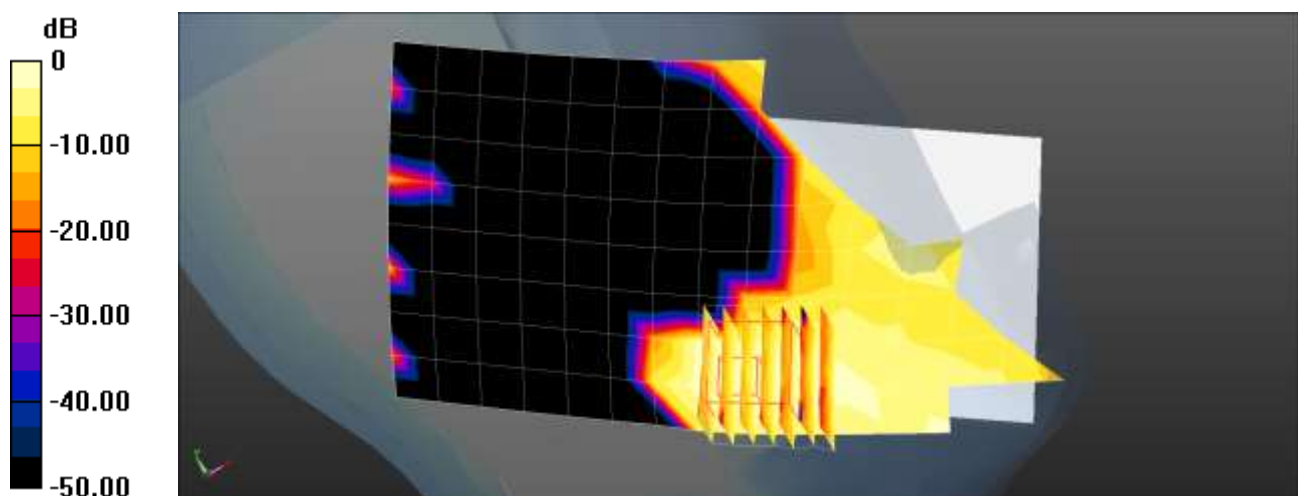
- Probe: EX3DV4 - SN7702; ConvF(7.93, 7.93, 7.93) @ 2592.99 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n41 Head Left Touch CP QPSK 100MHz 1RB 1offset 518598ch/Area Scan (9x16x1):

Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0386 W/kg

NR Band n41 Head Left Touch CP QPSK 100MHz 1RB 1offset 518598ch/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) = 0.0540 W/kg
SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.011 W/kg
Maximum value of SAR (measured) = 0.0379 W/kg



0 dB = 0.0386 W/kg = -14.14 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8°C
Ambient Temperature: 21.0°C
Test Date: 04/22/2022
Plot No.: 28

Communication System: UID 0, n66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 41.592$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(8.12, 8.12, 8.12) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n66 Head Left Touch DFT-S QPSK 40MHz 108RB 54offset 349000ch/Area Scan (8x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.220 W/kg

NR Band n66 Head Left Touch DFT-S QPSK 40MHz 108RB 54offset 349000ch/Zoom Scan

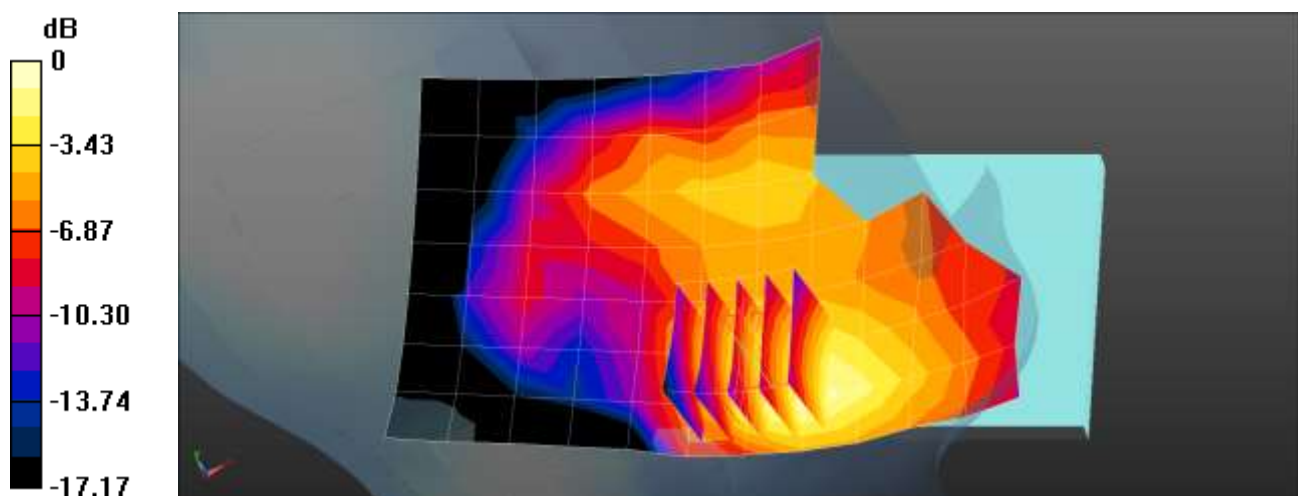
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.226 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 0.233 W/kg



0 dB = 0.233 W/kg = -6.33 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.8°C
Ambient Temperature: 22.0°C
Test Date: 04/21/2022
Plot No.: 29

Communication System: UID 0, NR n71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 44.156$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

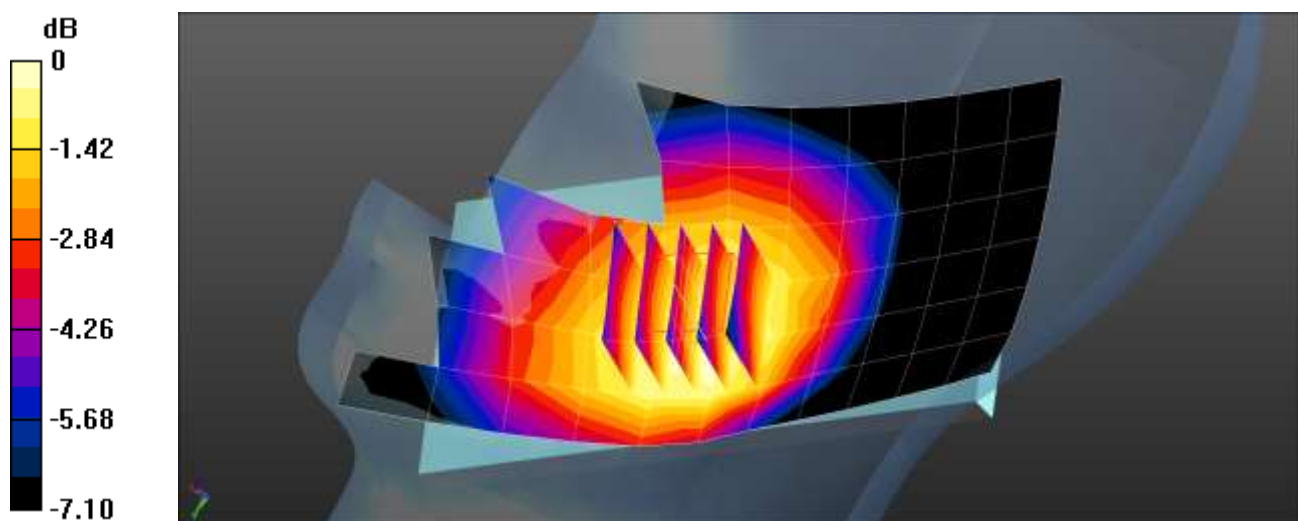
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 680.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 71 Head Right Touch DFT-s QPSK 20MHz 50RB 28offset 136100ch/Area Scan (7x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.106 W/kg

NR Band 71 Head Right Touch DFT-s QPSK 20MHz 50RB 28offset 136100ch/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.681 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.112 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.105 W/kg



0 dB = 0.105 W/kg = -9.79 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6°C
Ambient Temperature: 19.6°C
Test Date: 04/21/2022
Plot No.: 30

Communication System: UID 0, NR Band 77 (0); Frequency: 3930 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3930$ MHz; $\sigma = 3.297$ S/m; $\epsilon_r = 36.419$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(6.75, 6.75, 6.75) @ 3930 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Head Right Touch DFT-s QPSK 100MHz 1RB 271Offset 662000ch/Area Scan (11x19x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.34 W/kg

NR Band n77 Head Right Touch DFT-s QPSK 100MHz 1RB 271Offset 662000ch/Zoom Scan

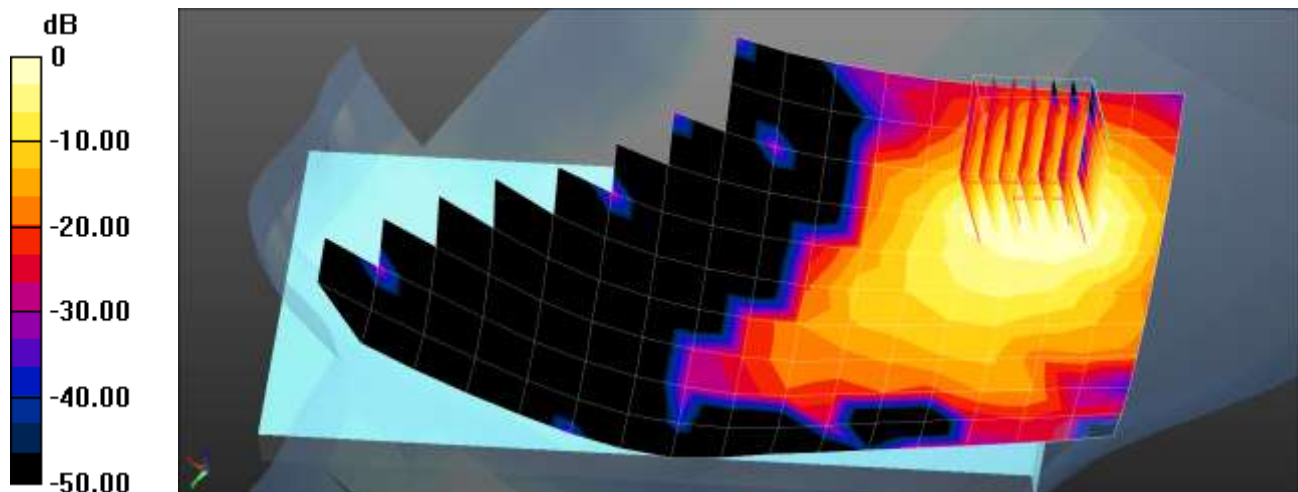
(7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.314 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.34 W/kg = 1.28 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 18.7°C
Ambient Temperature: 18.7°C
Test Date: 04/28/2022
Plot No.: 31

Communication System: UID 0, NR Band 77 (0); Frequency: 3500.1 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.1$ MHz; $\sigma = 2.928$ S/m; $\epsilon_r = 37.154$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

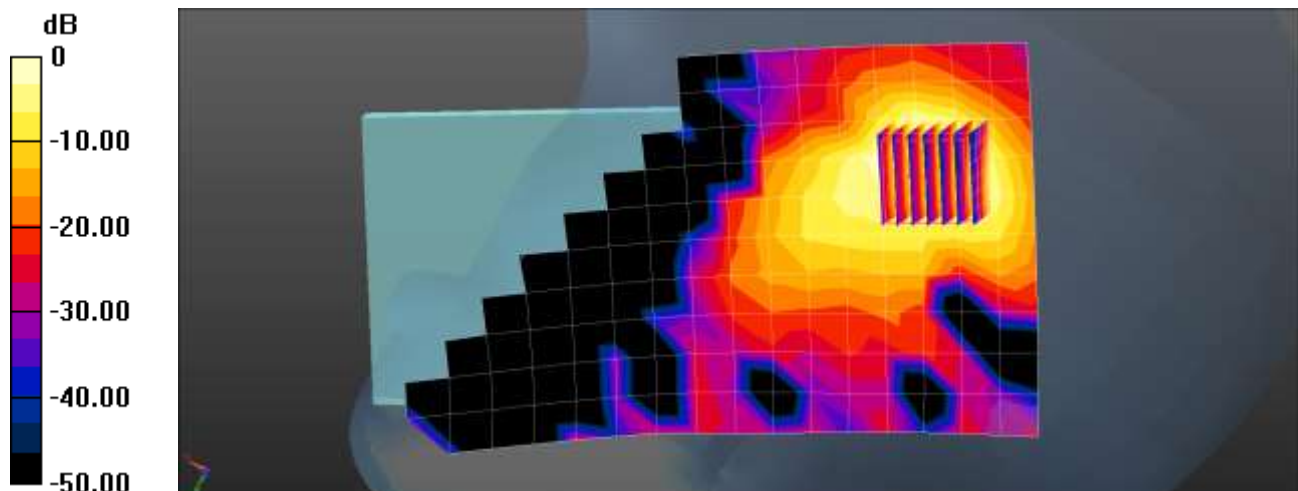
- Probe: EX3DV4 - SN7702; ConvF(7.25, 7.25, 7.25) @ 3500.1 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Head Right Touch CP QPSK 100MHz 1RB 1Offset 633334ch/Area Scan (11x19x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.45 W/kg

NR Band n77 Head Right Touch CP QPSK 100MHz 1RB 1Offset 633334ch/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.305 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 2.30 W/kg
SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.284 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



0dB = 1.45 W/kg = 1.61 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.9°C
Test Date: 05/02/2022
Plot No.: 32

Communication System: UID 0, NR n77 Duty100% (0); Frequency: 3750 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 3750 \text{ MHz}$; $\sigma = 3.094 \text{ S/m}$; $\epsilon_r = 36.147$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.15, 7.15, 7.15) @ 3750 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

N Band n77 Head Right Touch DFT-S QPSK 100MHz 270RB 0offset 650000ch/Area Scan (10x16x1):

Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 0.587 W/kg

NR Band n77 Head Right Touch DFT-S QPSK 100MHz 270RB 0offset 650000ch/Zoom Scan

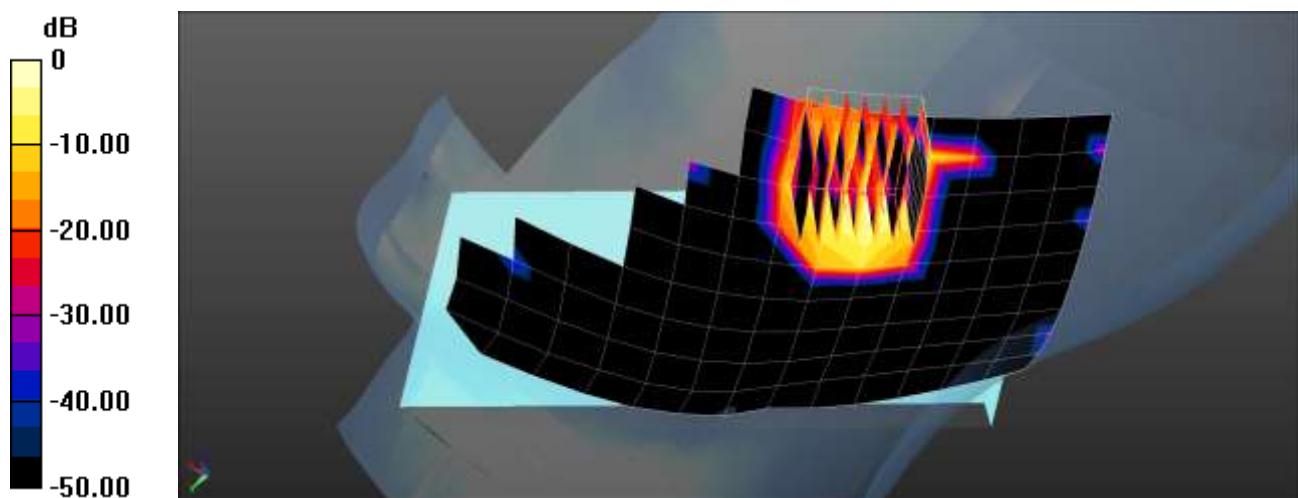
(7x7x8)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$

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

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.644 W/kg



0 dB = 0.587 W/kg = -2.32 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.9°C
Test Date: 05/02/2022
Plot No.: 33

Communication System: UID 0, NR n77 Duty100% (0); Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.931$ S/m; $\epsilon_r = 36.481$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.25, 7.25, 7.25) @ 3500.01 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Head Right Touch DFT-S QPSK 100MHz 270RB 0offset 633334ch/Area Scan (10x16x1):

Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.461 W/kg

NR Band n77 Head Right Touch DFT-S QPSK 100MHz 270RB 0offset 633334ch/Zoom Scan

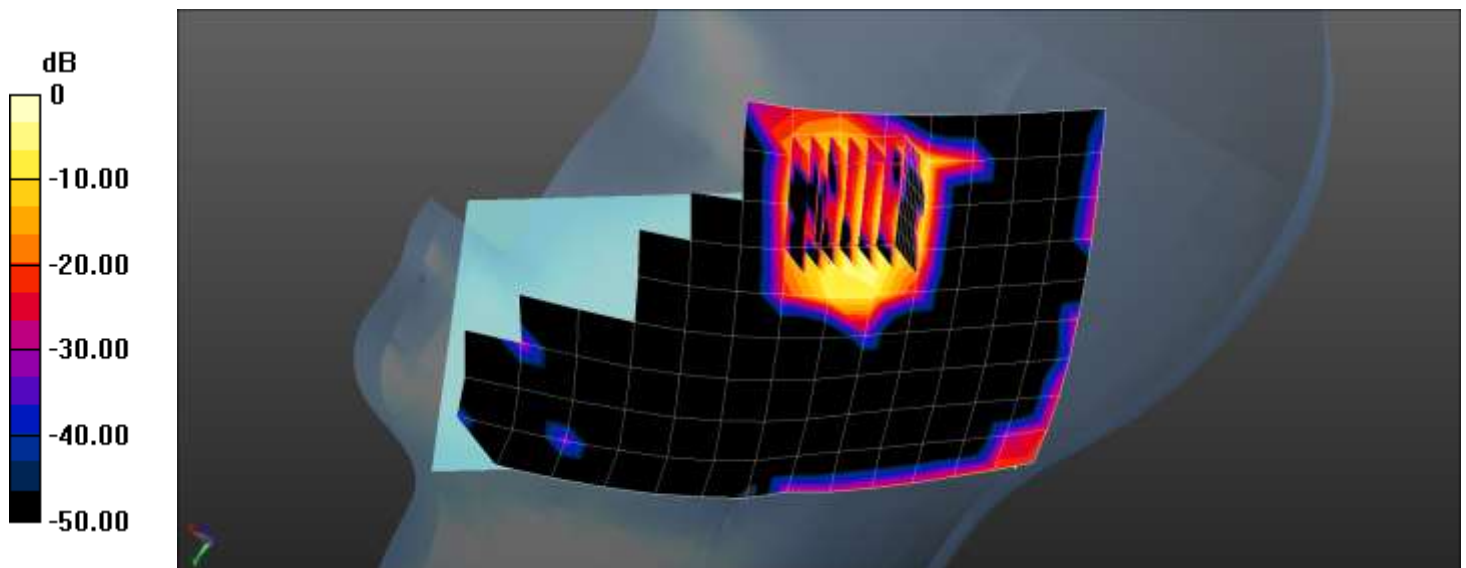
(7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

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

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 05/04/2022
Plot No.: 34

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

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

802.11b Head Right Tilt 1Mbps 6ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.813 W/kg

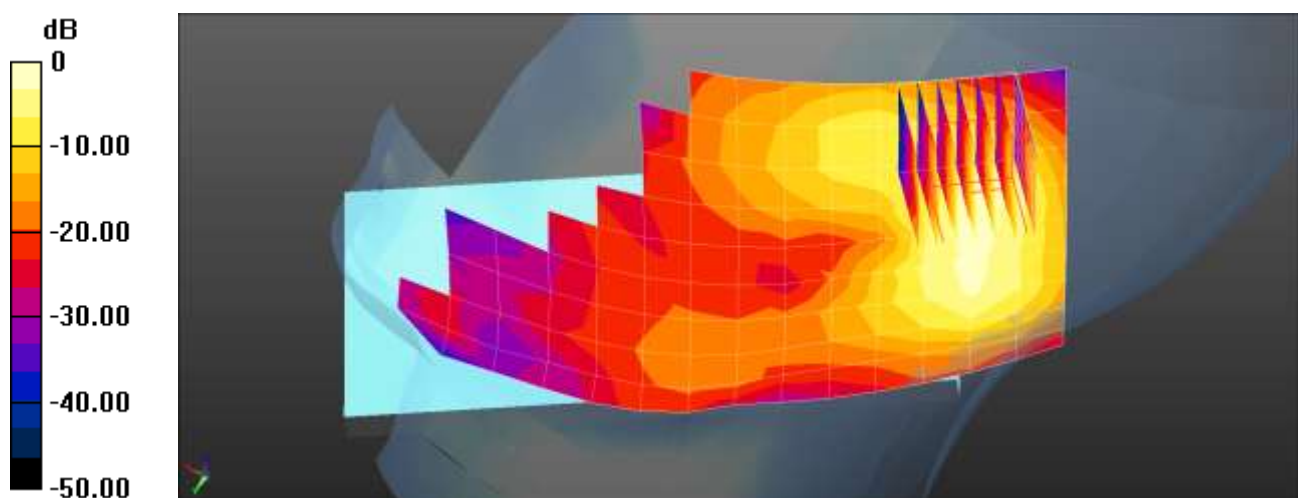
802.11b Head Right Tilt 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.80 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 0.866 W/kg



0 dB = 0.813 W/kg = -0.90 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 05/04/2022
Plot No.: 35

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.27$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2412 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

802.11b Head Right Tilt 1Mbps 1ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.486 W/kg

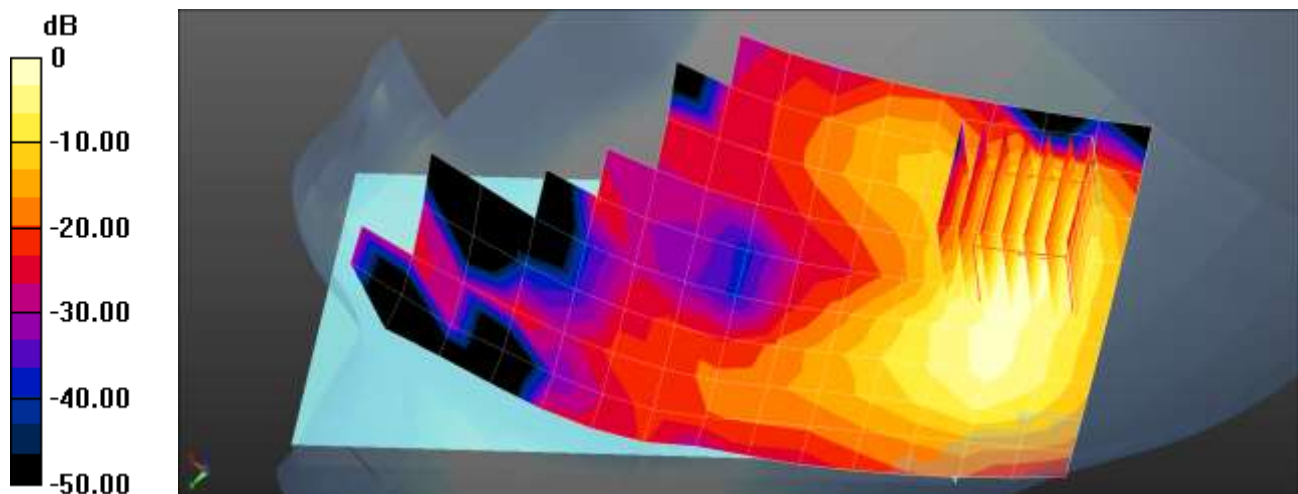
802.11b Head Right Tilt 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.66 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.486 W/kg = -3.13 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.2°C
Test Date: 05/09/2022
Plot No.: 36

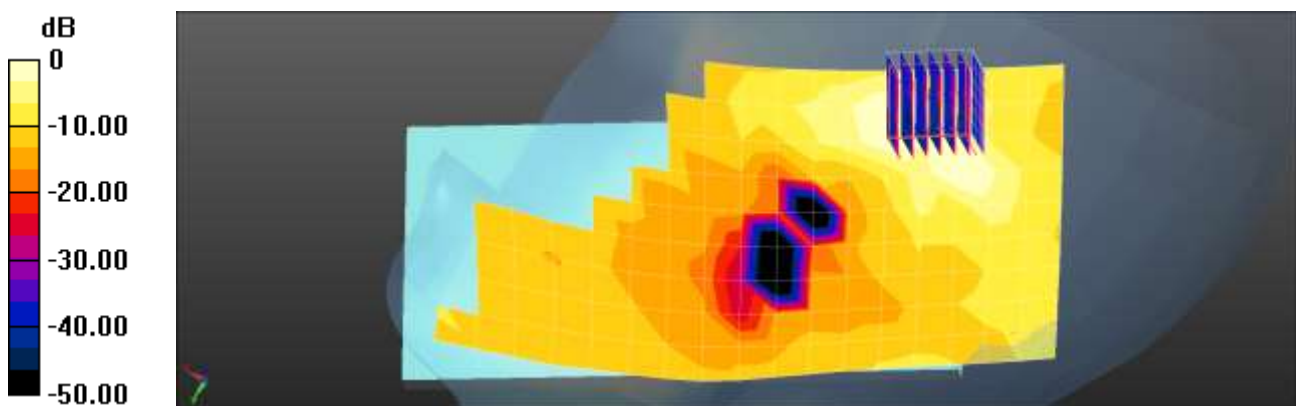
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.193$ S/m; $\epsilon_r = 36.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

802.11ac80 Head Right Touch MCS0 155ch/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.540 W/kg

802.11ac80 Head Right Touch MCS0 155ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.227 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.105 W/kg
Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.540 W/kg = -2.68 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.8°C
Test Date: 04/22/2022
Plot No.: 37

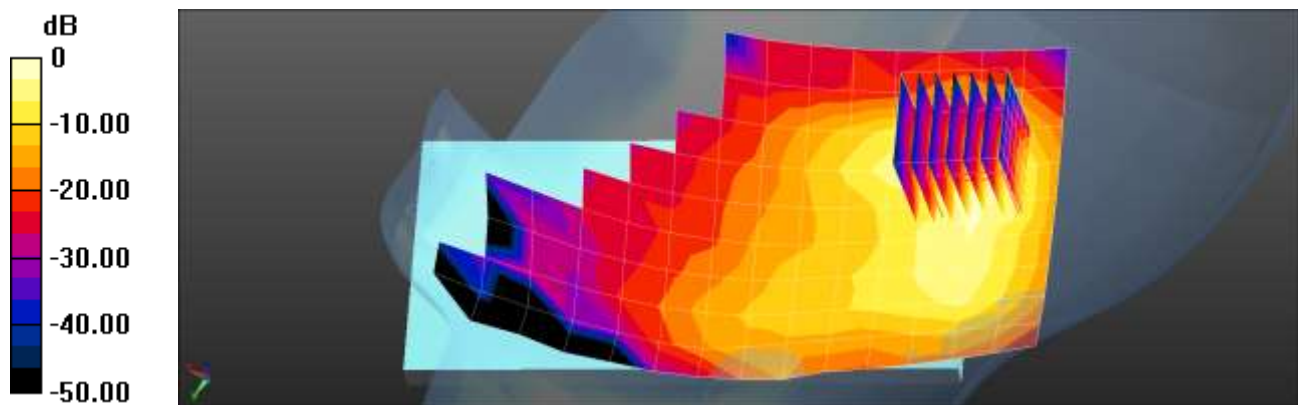
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302
Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 39.232$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2441 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Bluetooth Head Right Touch DH5 39ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.544 W/kg

Bluetooth Head Right Touch DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.983 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.791 W/kg
SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.130 W/kg
Maximum value of SAR (measured) = 0.593 W/kg



0 dB = 0.544 W/kg = -2.64 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.9 °C
Ambient Temperature: 22.0 °C
Test Date: 04/15/2022
Plot No.: 38

Communication System: UID 0, CDMA 835MHz FCC (0); Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 41.922$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 836.52 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC0 Body Worn Rear 384ch TDSO SO32/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.568 W/kg

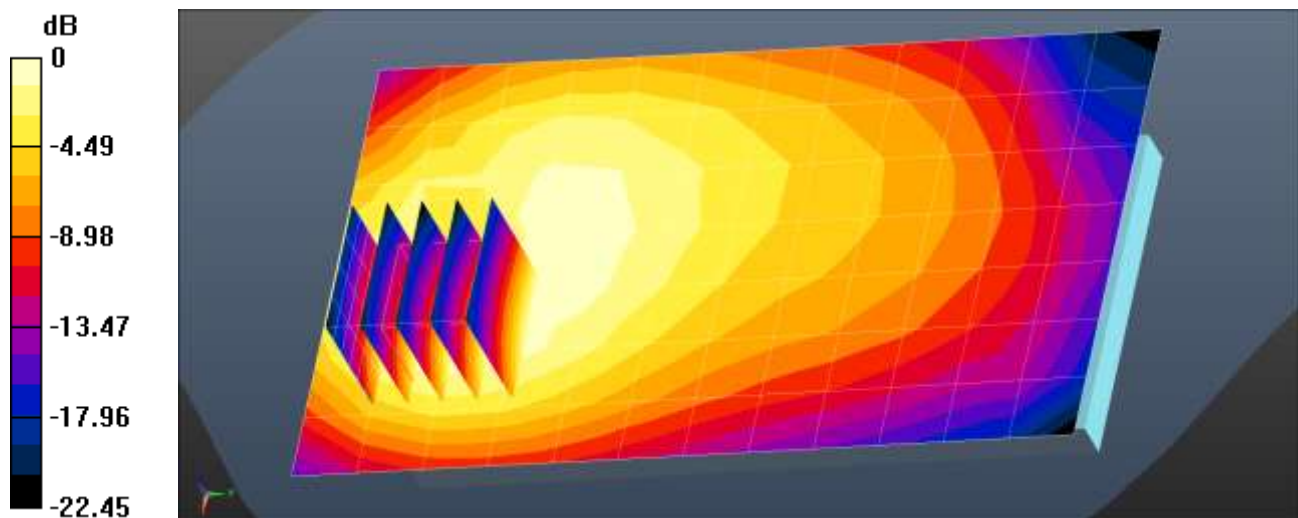
CDMA BC0 Body Worn Rear 384ch TDSO SO32/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.52 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.698 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.269 W/kg

Maximum value of SAR (measured) = 0.588 W/kg



0 dB = 0.568 W/kg = -2.45 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 °C
Ambient Temperature: 20.1 °C
Test Date: 04/25/2022
Plot No.: 39

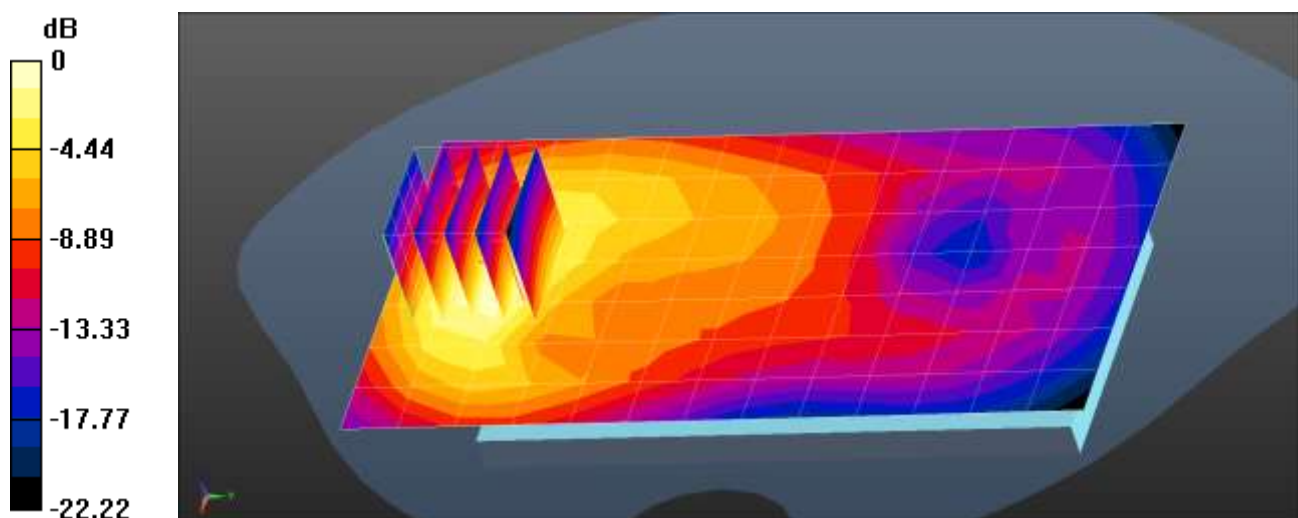
Communication System: UID 0, CDMA BC1(1900MHz) (0); Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 40.861$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1908.75 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC1 Body worn Rear 1175ch SO32 RC3/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.23 W/kg

CDMA BC1 Body worn Rear 1175ch SO32 RC3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.58 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.918 W/kg; SAR(10 g) = 0.532 W/kg
Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.23 W/kg = 0.89 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1 °C
Ambient Temperature: 21.2 °C
Test Date: 04/18/2022
Plot No.: 40

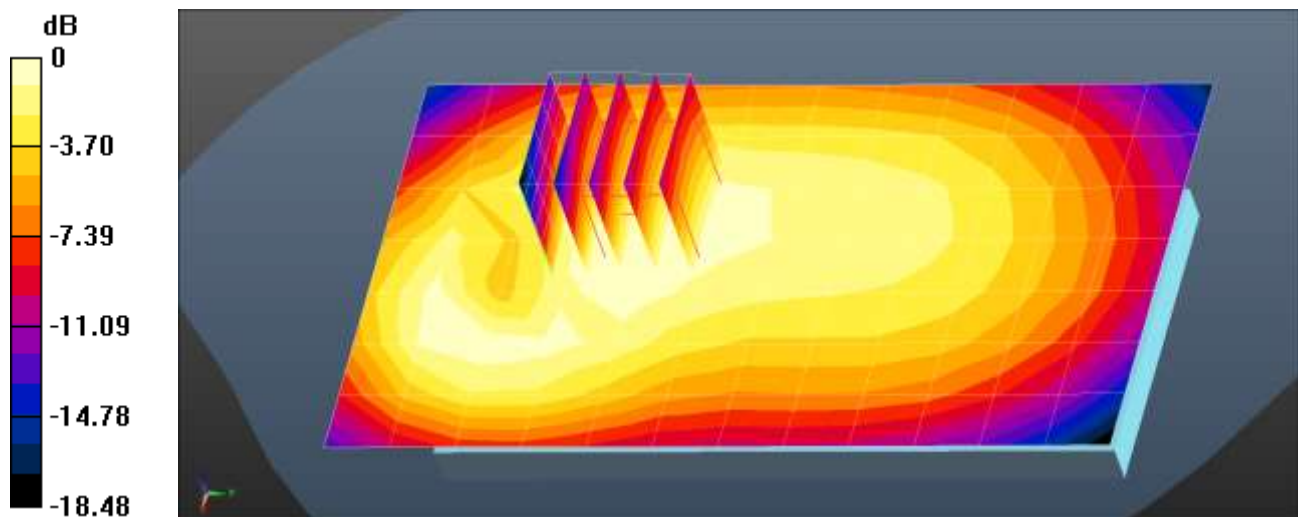
Communication System: UID 0, CDMA BC10 (FCC) (0); Frequency: 820 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 820 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 41.961$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 820 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC10 Body Worn Rear 560ch TDSO SO32/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.402 W/kg

CDMA BC10 Body Worn Rear 560ch TDSO SO32/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 17.98 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.454 W/kg
SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.234 W/kg
Maximum value of SAR (measured) = 0.408 W/kg



0 dB = 0.402 W/kg = -3.96 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.9 °C
Ambient Temperature: 20.0 °C
Test Date: 04/14/2022
Plot No.: 41

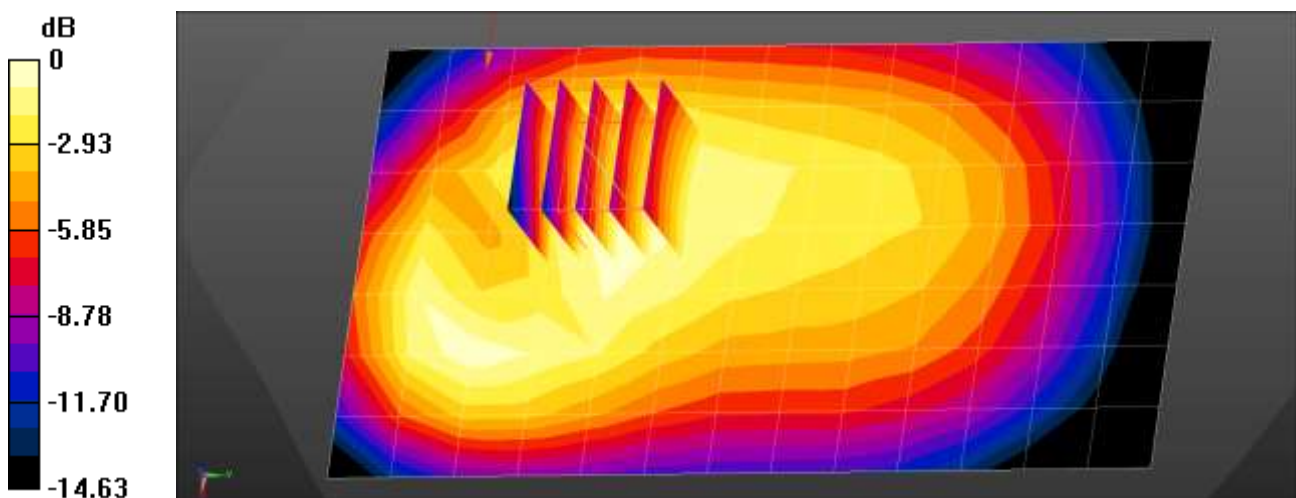
Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.551$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

GSM850 2Tx BodyWorn Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.465 W/kg

GSM850 2Tx BodyWorn Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.11 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.548 W/kg
SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.272 W/kg
Maximum value of SAR (measured) = 0.487 W/kg



0 dB = 0.487 W/kg = -3.12 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/14/2022
Plot No.: 42

Communication System: UID 0, GSM 1900 3TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.77013
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.397 \text{ S/m}$; $\epsilon_r = 40.776$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

GSM1900 3Tx BodyWorn Front 661ch/Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.580 W/kg

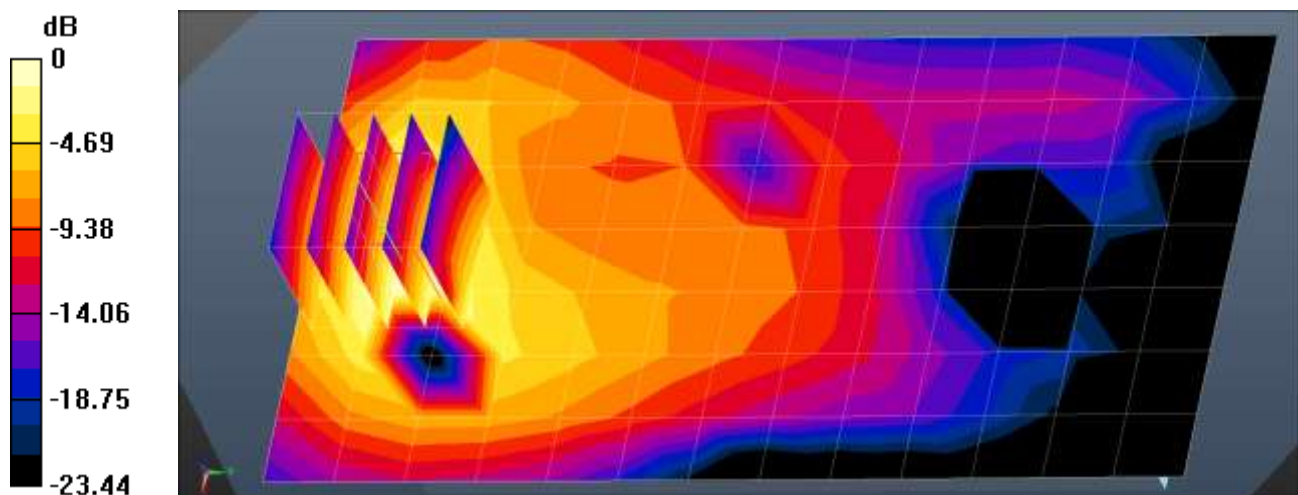
GSM1900 3Tx BodyWorn Front 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.160 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.235 W/kg

Maximum value of SAR (measured) = 0.624 W/kg



0 dB = 0.624 W/kg = -2.05 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6 °C
Ambient Temperature: 19.8 °C
Test Date: 04/13/2022
Plot No.: 43

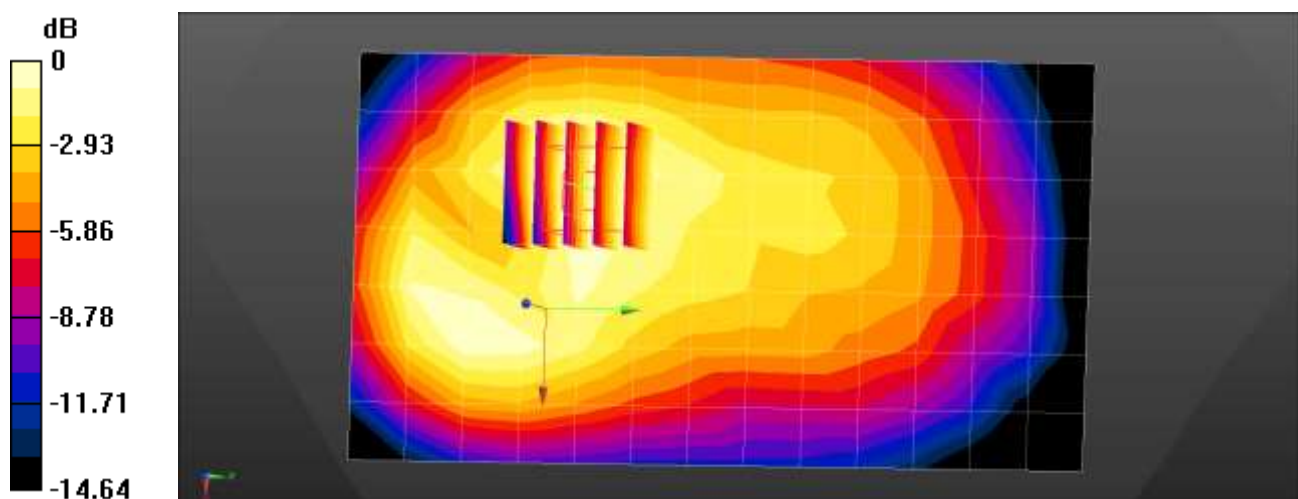
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.579$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 5 BodyWorn Rear 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.404 W/kg

UMTS Band 5 BodyWorn Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.81 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.465 W/kg
SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.415 W/kg



0 dB = 0.415 W/kg = -3.82 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 °C
Ambient Temperature: 19.2 °C
Test Date: 04/13/2022
Plot No.: 44

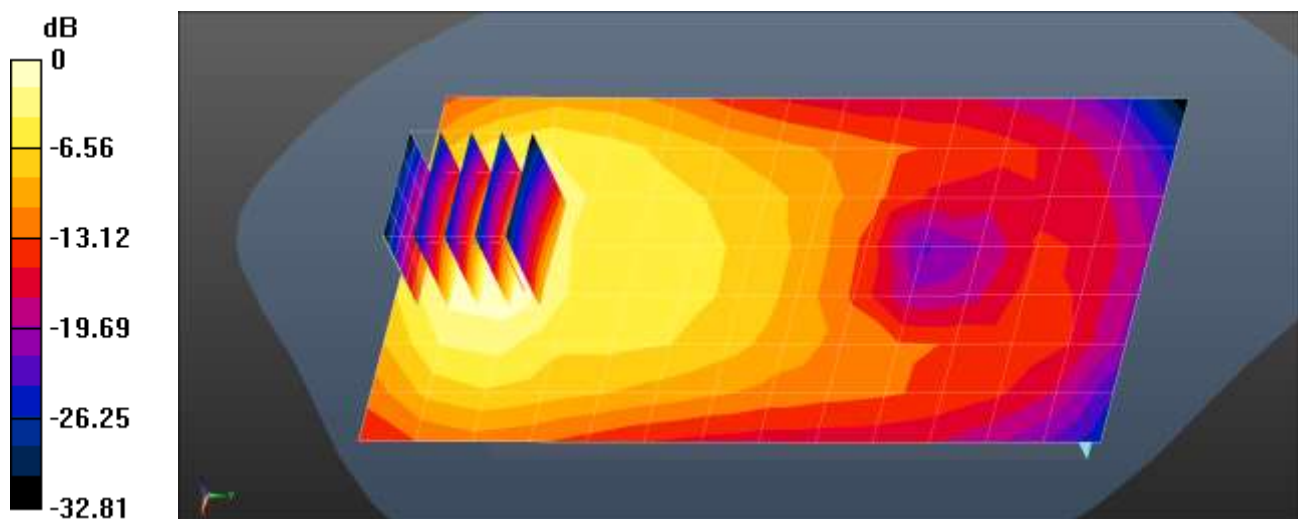
Communication System: UID 0, WCDMA IV (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.331$ S/m; $\epsilon_r = 41.702$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1712.4 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 4 Bodyworn Rear 1312ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.905 W/kg

UMTS Band 4 Bodyworn Rear 1312ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.634 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.459 W/kg
Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.7 °C
Ambient Temperature: 19.7 °C
Test Date: 04/12/2022
Plot No.: 45

Communication System: UID 0, WCDMA1900 (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 40.85$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1907.6 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 2 Bodyworn Rear 9538ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.960 W/kg

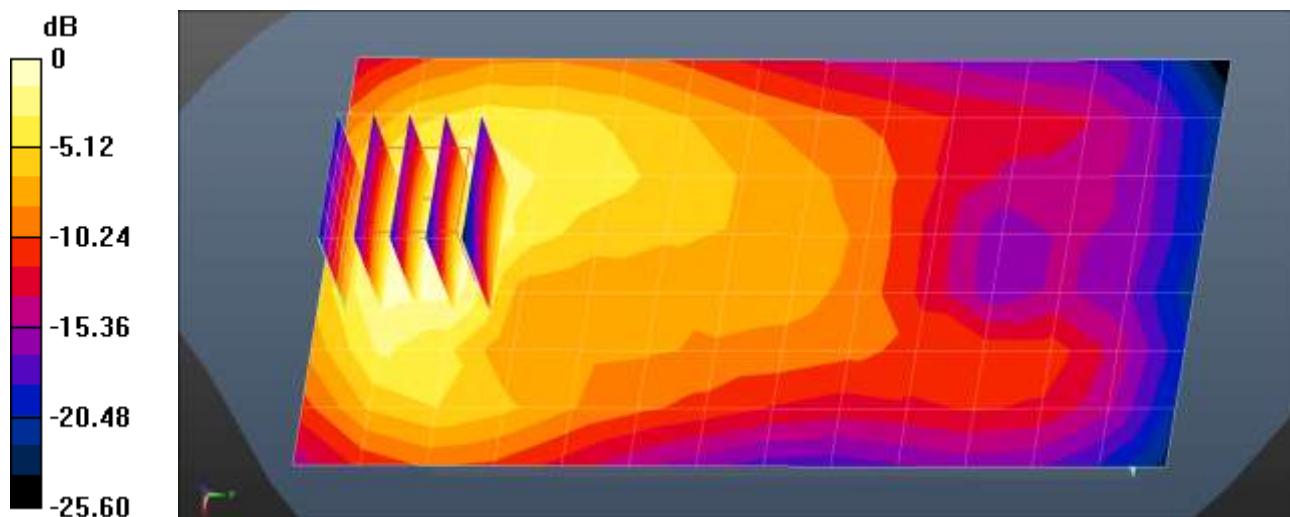
UMTS Band 2 Bodyworn Rear 9538ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.35 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.441 W/kg

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



0 dB = 0.960 W/kg = -0.18 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.3°C
Ambient Temperature: 22.4°C
Test Date: 04/14/2022
Plot No.: 46

Measurement Report for Device, BACK, Band 7, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK), Channel 21350 (2560.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 7, E-UTRA/FDD	LTE-FDD, 10169-CAE	2560.0, 21350	7.57	1.85	38.9

Hardware Setup

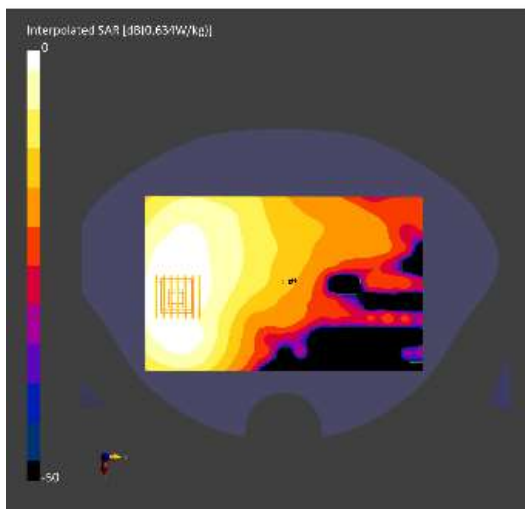
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
Surface Detection	VMS + 6p	VMS + 6p

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.513	0.507
psSAR10g [W/Kg]	0.284	0.265
Power Drift [dB]	-0.17	-0.17



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.9°C
Ambient Temperature: 21.1°C
Test Date: 04/13/2022
Plot No.: 47

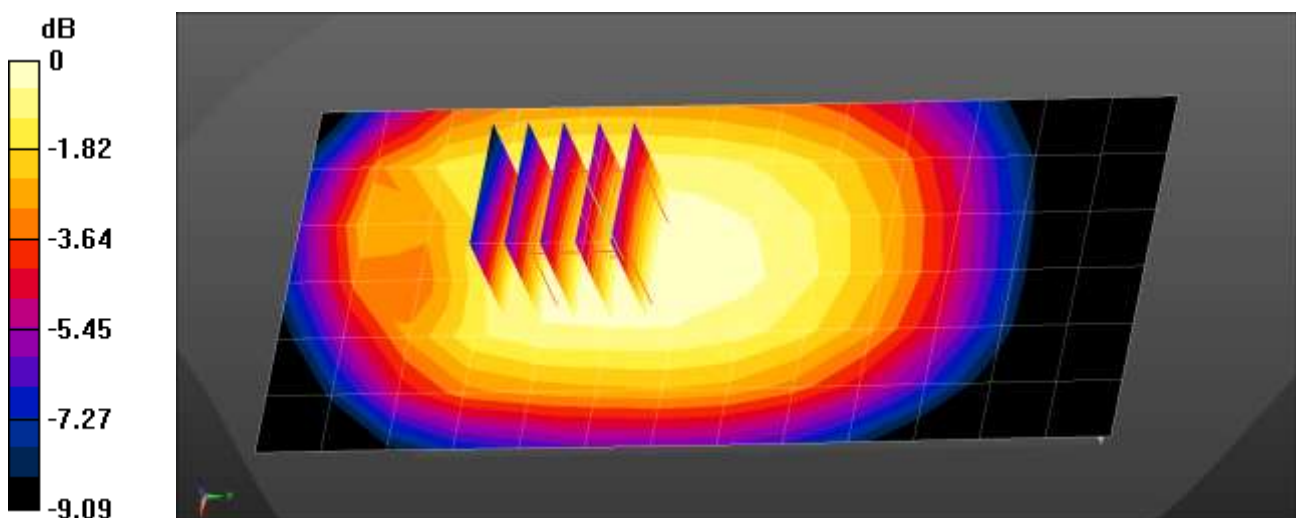
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 43.183$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 707.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 12 Bodyworn Front QPSK 10MHz 1RB 0offset 23095ch/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.183 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 = 14.26 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.195 W/kg
SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.126 W/kg
Maximum value of SAR (measured) = 0.185 W/kg



0 dB = 0.185 W/kg = -7.33 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.1°C
Ambient Temperature: 20.1°C
Test Date: 04/14/2022
Plot No.: 48

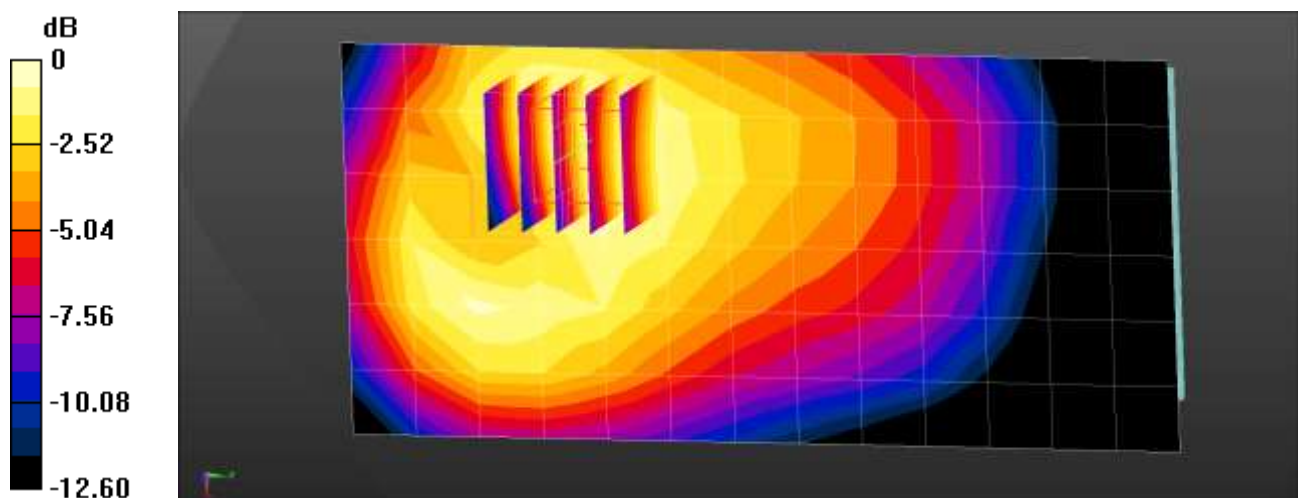
Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 42.044$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 782 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 13 Bodyworn Rear QPSK 10MHz 1RB 49offset 23230ch/Area Scan (7x14x1): Measurement
grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.415 W/kg

LTE Band 13 Bodyworn Rear QPSK 10MHz 1RB 49offset 23230ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 13.83 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.471 W/kg
SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.248 W/kg
Maximum value of SAR (measured) = 0.429 W/kg



0 dB = 0.429 W/kg = -3.68 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.9°C
Ambient Temperature: 19.9°C
Test Date: 04/15/2022
Plot No.: 49

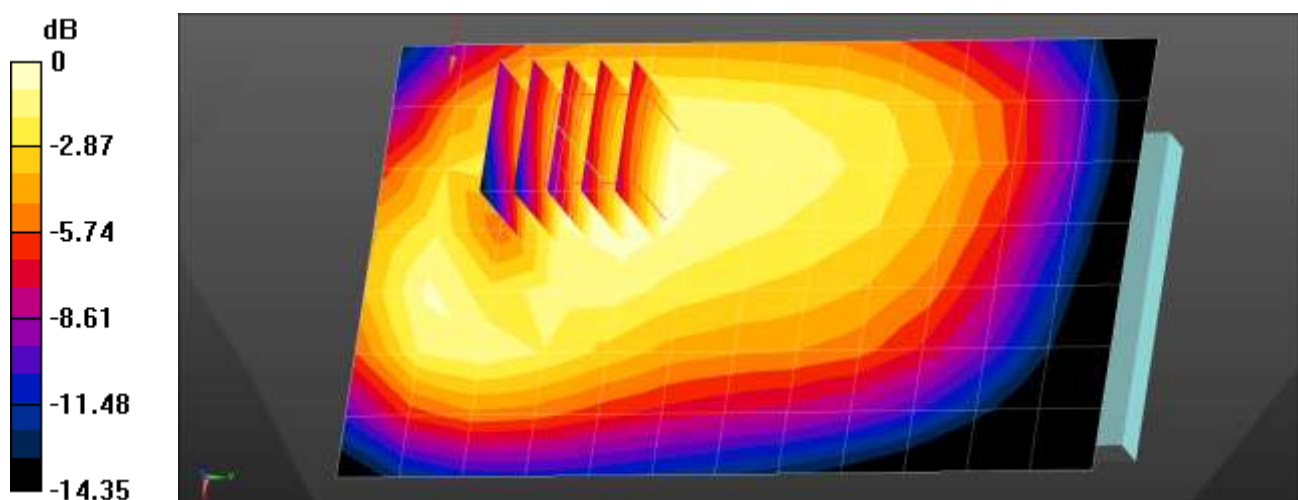
Communication System: UID 0, LTE 14 (0); Frequency: 793 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 793 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 14 Bodyworn Rear QPSK 10MHz 1RB 24offset 23330ch/Area Scan (8x13x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.454 W/kg

LTE Band 14 Bodyworn Rear QPSK 10MHz 1RB 24offset 23330ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.77 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.504 W/kg
SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.465 W/kg



0 dB = 0.465 W/kg = -3.33 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.2°C
Test Date: 04/21/2022
Plot No.: 50

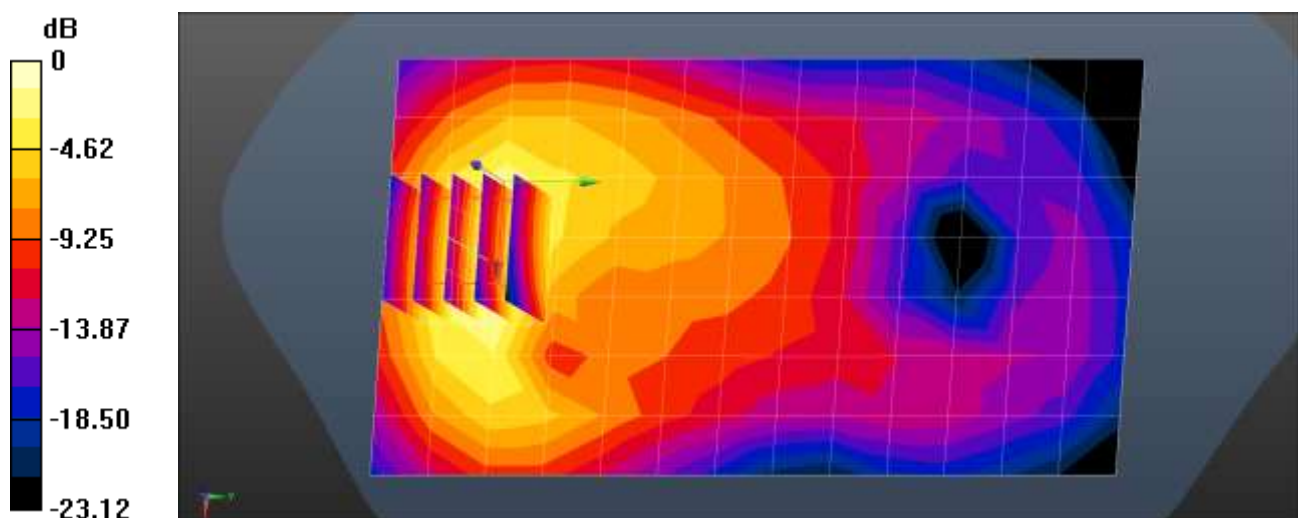
Communication System: UID 0, LTE Band 25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.637$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1882.5 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 25 Bodyworn Rear QPSK 20MHz 1RB 49offset 26365ch/Area Scan (8x14x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.718 W/kg

LTE Band 25 Bodyworn Rear QPSK 20MHz 1RB 49offset 26365ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.850 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.891 W/kg
SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.283 W/kg
Maximum value of SAR (measured) = 0.755 W/kg



0 dB = 0.755 W/kg = -1.22 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 04/19/2022
Plot No.: 51

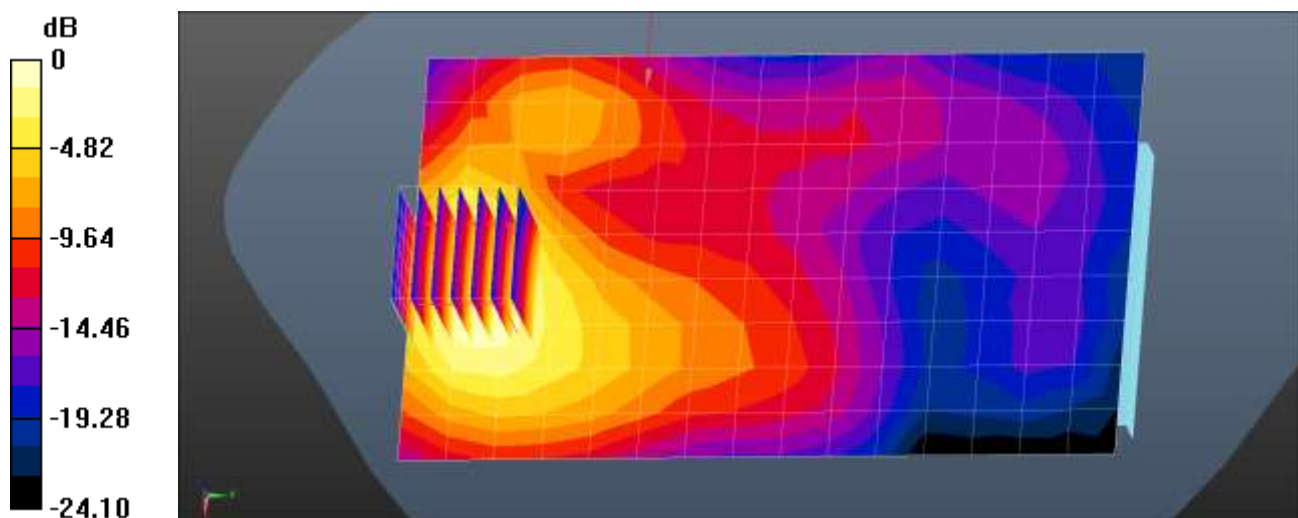
Communication System: UID 0, LTE Band 30 (0); Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 2310$ MHz; $\sigma = 1.723$ S/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.94, 4.94, 4.94) @ 2310 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 30 BodyWorn Front QPSK 10MHz 1RB 49offset 27710ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.480 W/kg

LTE Band 30 BodyWorn Front QPSK 10MHz 1RB 49offset 27710ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.678 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.799 W/kg
SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.550 W/kg



0 dB = 0.480 W/kg = -3.18 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.6°C
Ambient Temperature: 20.7°C
Test Date: 04/15/2022
Plot No.: 52

BACK, Band 40, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition: Channel 38750 (2310.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	156.0 x 79.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 40, E-UTRA/TDD	LTE-TDD, 10237-CAG	2310.0, 38750	7.77	1.72	39.9

Hardware Setup

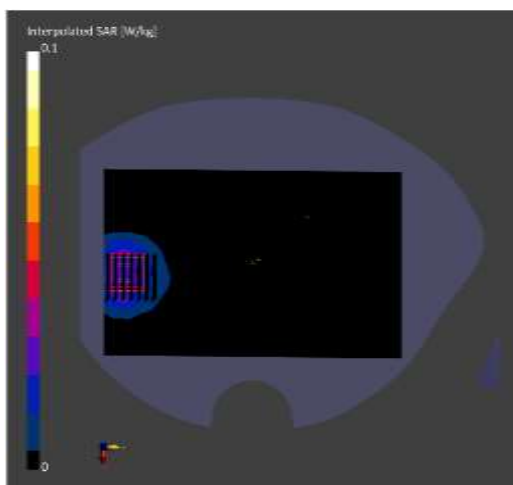
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

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
Graded Grid	Yes	Yes

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.027	0.027
psSAR10g [W/Kg]	0.015	0.014
Power Drift [dB]	0.15	0.15



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5°C
Ambient Temperature: 20.7°C
Test Date: 04/18/2022
Plot No.: 53

BACK, Band 40, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:Mid Antenna, Channel 39200 (2355.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	156.0 x 79.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 40, E-UTRA/TDD	LTE-TDD, 10237-CAG	2355.0, 39200	7.77	1.76	39.8

Hardware Setup

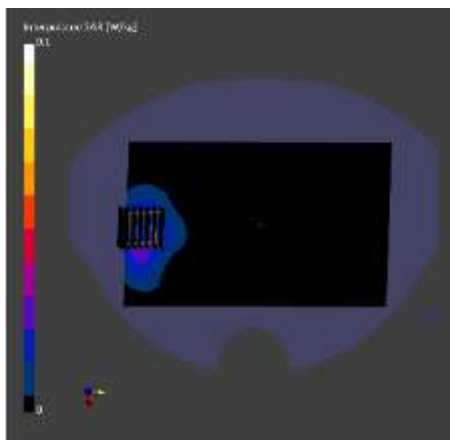
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

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
Graded Grid	Yes	Yes

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.028	0.029
psSAR10g [W/Kg]	0.016	0.016
Power Drift [dB]	-0.13	-0.13



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.9°C
Test Date: 04/12/2022
Plot No.: 54

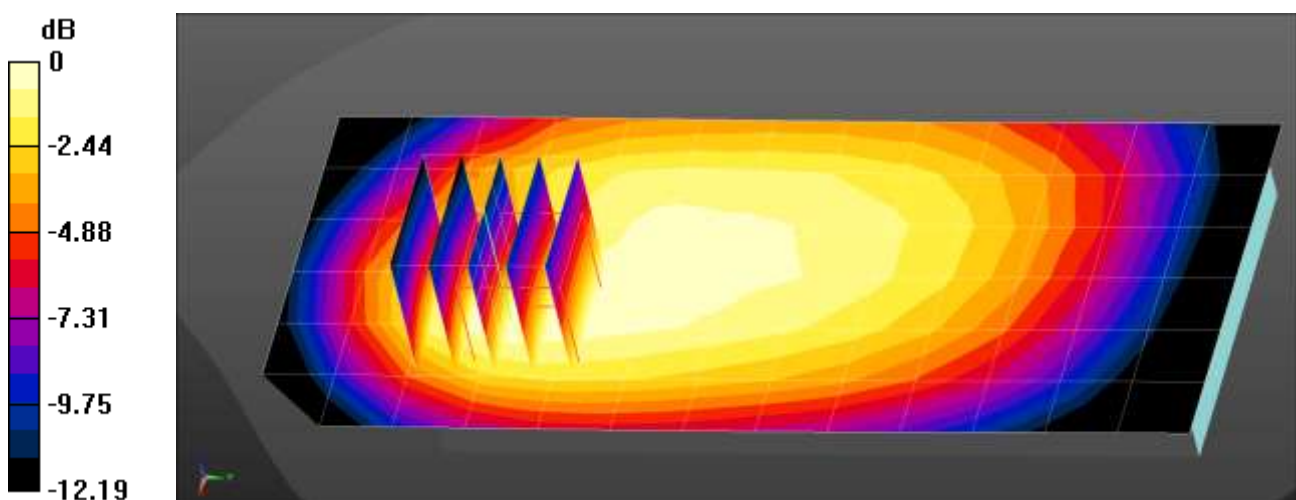
Communication System: UID 0, LTE 71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 44.155$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 680.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 71 Bodyworn Rear QPSK 20MHz 1RB 49offset 133297ch/Area Scan (7x14x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.238 W/kg

LTE Band 71 Bodyworn Rear QPSK 20MHz 1RB 49offset 133297ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.24 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.278 W/kg
SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.116 W/kg
Maximum value of SAR (measured) = 0.240 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.4°C
Ambient Temperature: 19.5°C
Test Date: 04/18/2022
Plot No.: 55

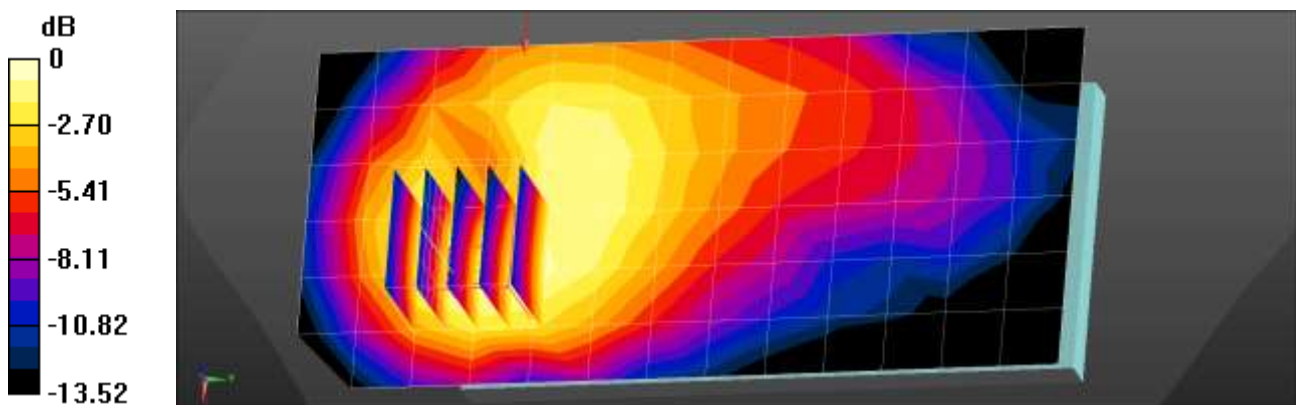
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 41.652$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.4, 10.4, 10.4) @ 831.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 26 Bodyworn Rear QPSK 15MHz 1RB 0offset 26865ch/Area Scan (7x14x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.440 W/kg

LTE Band 26 Bodyworn Rear QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.55 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.523 W/kg
SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.202 W/kg
Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.444 W/kg = -3.53 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 23.7°C
Ambient Temperature: 23.8°C
Test Date: 04/15/2022
Plot No.: 56

Measurement Report for Device, BACK, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCf:SISO, Channel 40620 (2593.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 41, E-UTRA/TDD	LTE-TDD, 10435-AAF	2593.0, 40620	7.57	1.88	38.8

Hardware Setup

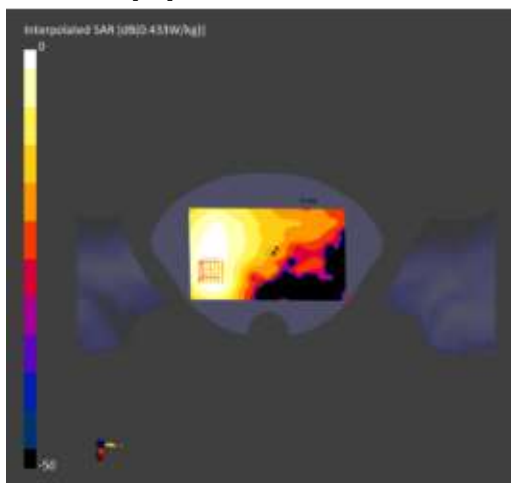
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.346	0.340
psSAR10g [W/Kg]	0.188	0.175
Power Drift [dB]	-0.13	0.16



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.3°C
Ambient Temperature: 21.4°C
Test Date: 04/21/2022
Plot No.: 57

Measurement Report for Device, BACK, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 40620 (2593.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 41, E-UTRA/TDD	LTE-TDD, 10435-AAF	2593.0, 40620	7.57	1.96	38.0

Hardware Setup

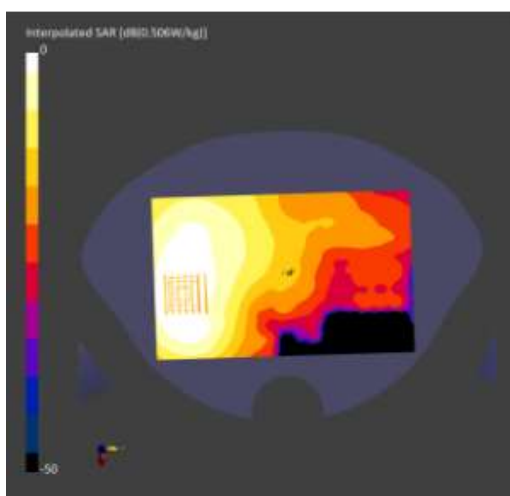
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.410	0.408
psSAR10g [W/Kg]	0.226	0.212
Power Drift [dB]	-0.13	-0.13



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.2°C
Ambient Temperature: 19.3°C
Test Date: 04/19/2022
Plot No.: 58

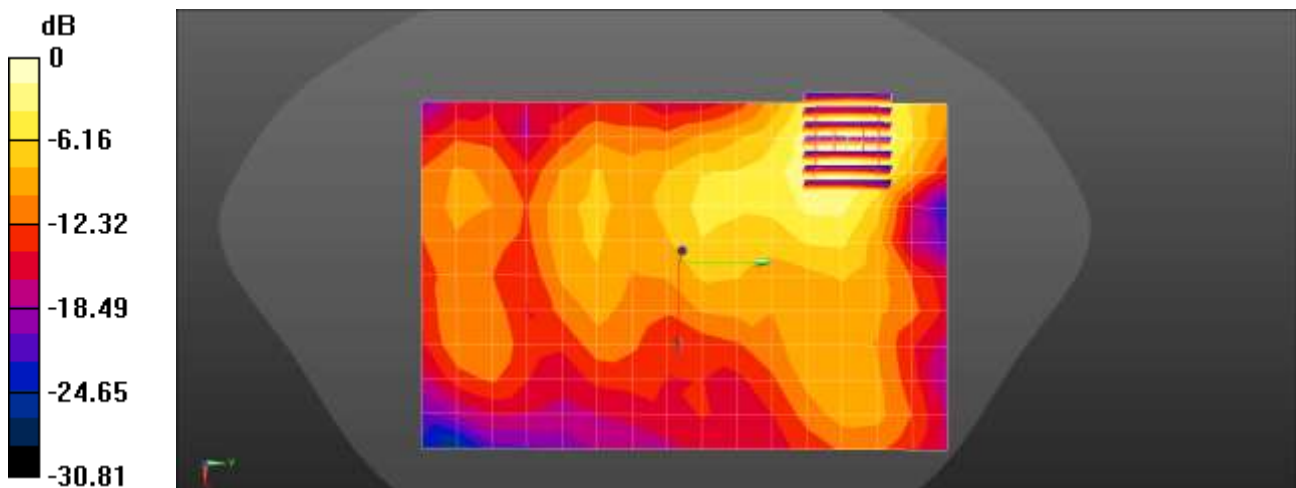
Communication System: UID 0, LTE 48 (0); Frequency: 3690 MHz; Duty Cycle: 1:1.58125
Medium parameters used: $f = 3690$ MHz; $\sigma = 3.067$ S/m; $\epsilon_r = 37.398$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.14, 7.14, 7.14) @ 3690 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 48 Bodyworn Front QPSK 20MHz 1RB 99offset 55340ch/Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.515 W/kg

LTE Band 48 Bodyworn Front QPSK 20MHz 1RB 99offset 55340ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 4.210 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.711 W/kg
SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.141 W/kg
Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone

Liquid Temperature: 20.4°C
Ambient Temperature: 20.5°C
Test Date: 04/19/2022
Plot No.: 59

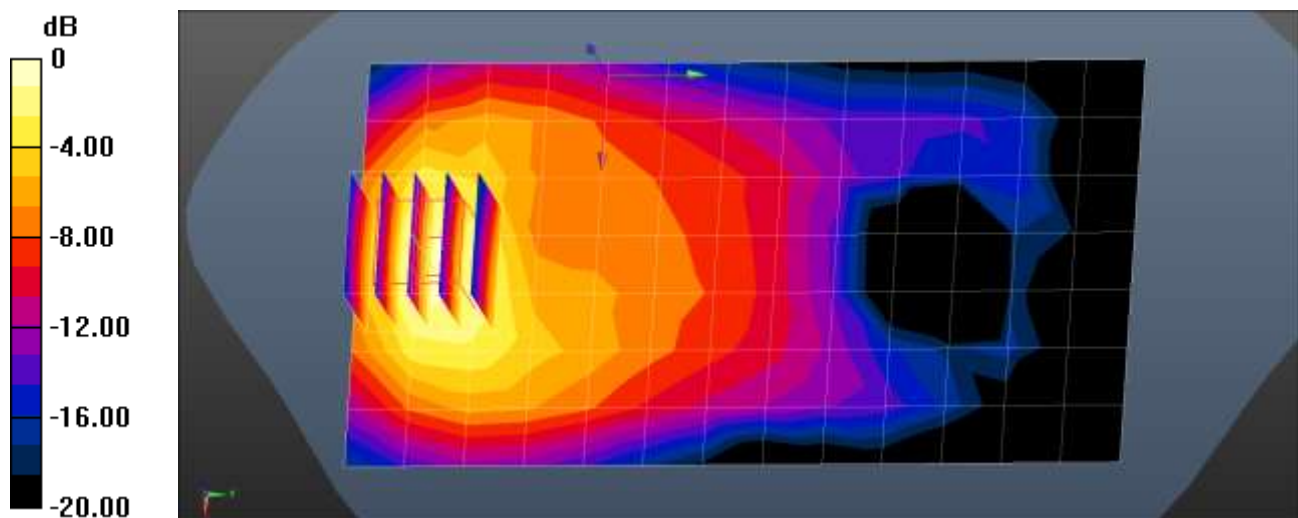
Communication System: UID 0, LTE 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1770$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 41.464$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1770 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 66 Bodyworn Front QPSK 20MHz 1RB 0offset 132572ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.600 W/kg

LTE Band 66 Bodyworn Front QPSK 20MHz 1RB 0offset 132572ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.153 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.841 W/kg
SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.719 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone

Liquid Temperature: 21.8°C
Ambient Temperature: 21.9°C
Test Date: 04/19/2022
Plot No.: 60

Communication System: UID 0, NR n5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.419$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

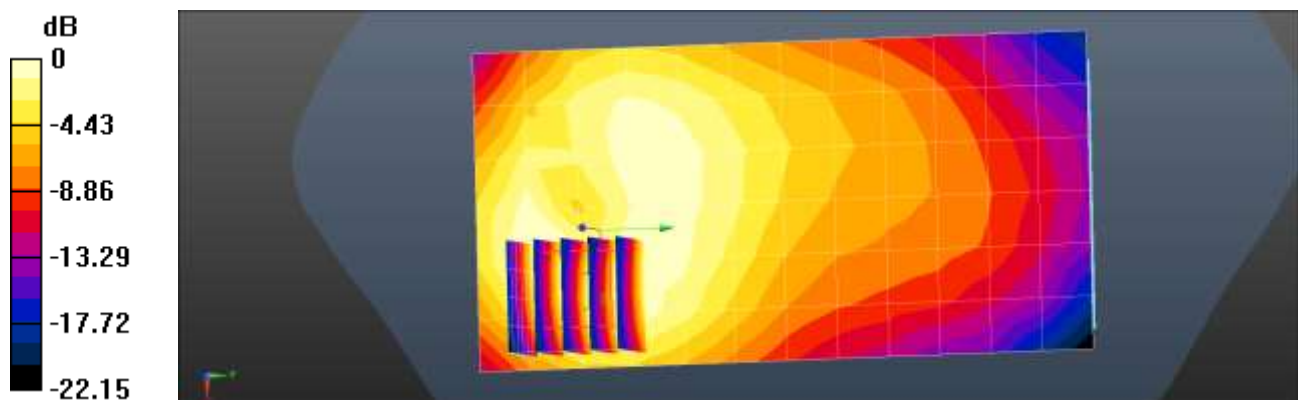
- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 836.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 5 BodyWorn Rear DFT-s QPSK 20MHz 1RB 104offset 167300ch/Area Scan (7x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.161 W/kg

NR Band 5 BodyWorn Rear DFT-s QPSK 20MHz 1RB 104offset 167300ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.647 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.084 W/kg
Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.161 W/kg = -7.94 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.1°C
Test Date: 04/20/2022
Plot No.: 61

Communication System: UID 0, NR n12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.864$ S/m; $\epsilon_r = 43.265$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

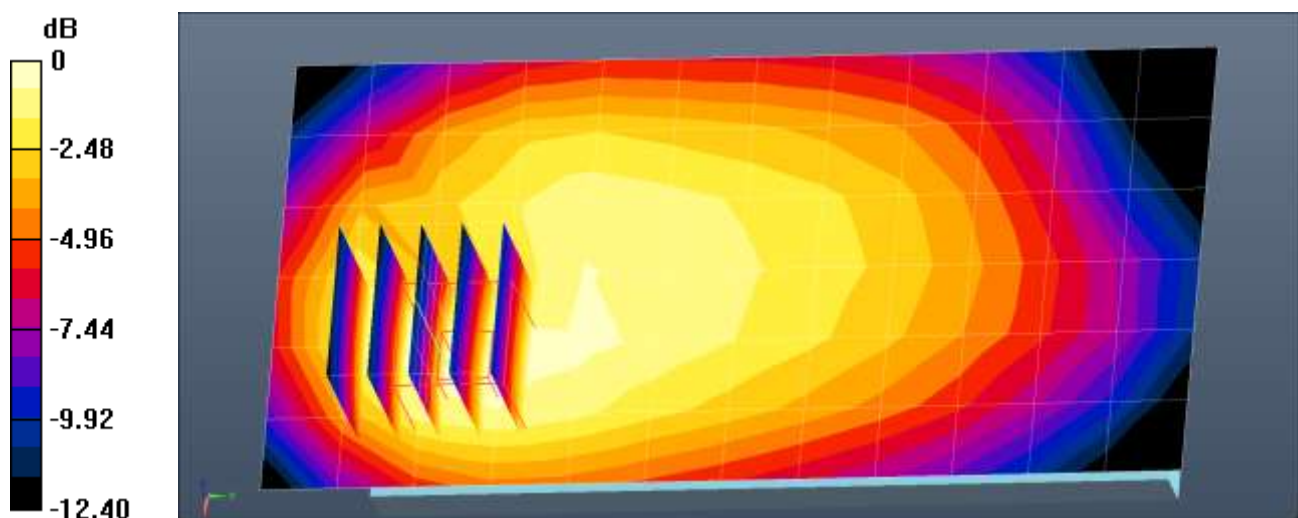
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 707.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 12 BodyWorn Rear DFT-s QPSK 15MHz 36RB 22offset 141500ch/Area Scan (7x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.137 W/kg

NR Band 12 BodyWorn Rear DFT-s QPSK 15MHz 36RB 22offset 141500ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 11.23 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.167 W/kg
SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.064 W/kg
Maximum value of SAR (measured) = 0.142 W/kg



0 dB = 0.142 W/kg = -8.48 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1°C
Ambient Temperature: 19.2°C
Test Date: 04/28/2022
Plot No.: 62

Communication System: UID 0, n25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.88$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

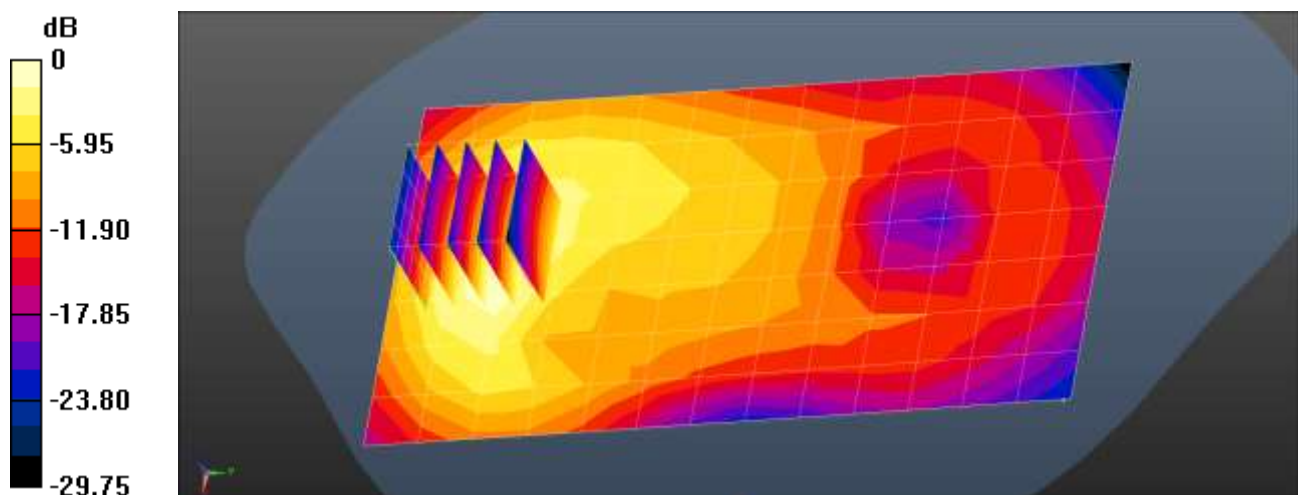
- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1882.5 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n25 Bodyworn Rear DFT-S QPSK 40MHz 1RB 108offset 376500ch/Area Scan (8x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.941 W/kg

NR Band n25 Bodyworn Rear DFT-S QPSK 40MHz 1RB 108offset 376500ch/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.31 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.385 W/kg
Maximum value of SAR (measured) = 0.959 W/kg



0 dB = 0.941 W/kg = -0.26 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.1°C
Ambient Temperature: 20.2°C
Test Date: 04/26/2022
Plot No.: 63

Communication System: UID 0, NR n30 (0); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2310$ MHz; $\sigma = 1.722$ S/m; $\epsilon_r = 39.904$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.49, 8.49, 8.49) @ 2310 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n30 BodyWorn Rear DFT-s QPSK 10MHz 25RB 14offset 462000ch/Area Scan (9x17x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.915 W/kg

NR Band n30 BodyWorn Rear DFT-s QPSK 10MHz 25RB 14offset 462000ch/Zoom Scan (7x7x7)/Cube

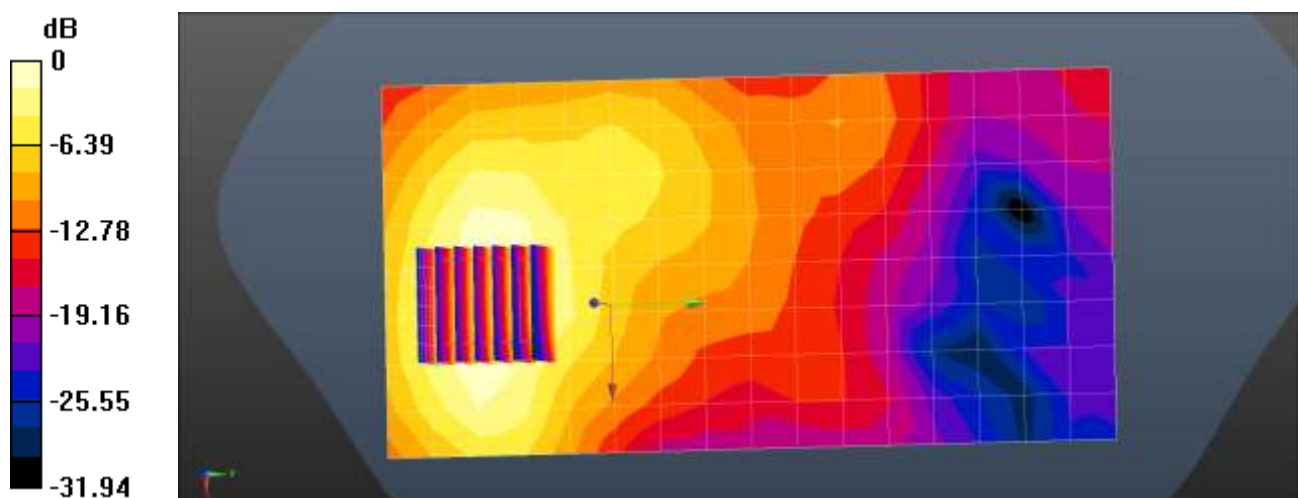
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.912 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.360 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 0.915 W/kg = -0.39 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.1°C
Test Date: 04/25/2022
Plot No.: 64

Communication System: UID 0, NR Band n41 (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2592.99$ MHz; $\sigma = 1.883$ S/m; $\epsilon_r = 38.784$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(7.93, 7.93, 7.93) @ 2592.99 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n41 BodyWorn Rear DFT-s QPSK 100MHz 1RB 271offset 518598ch/Area Scan (9x17x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.213 W/kg

NR Band n41 BodyWorn Rear DFT-s QPSK 100MHz 1RB 271offset 518598ch/Zoom Scan (7x7x7)/Cube

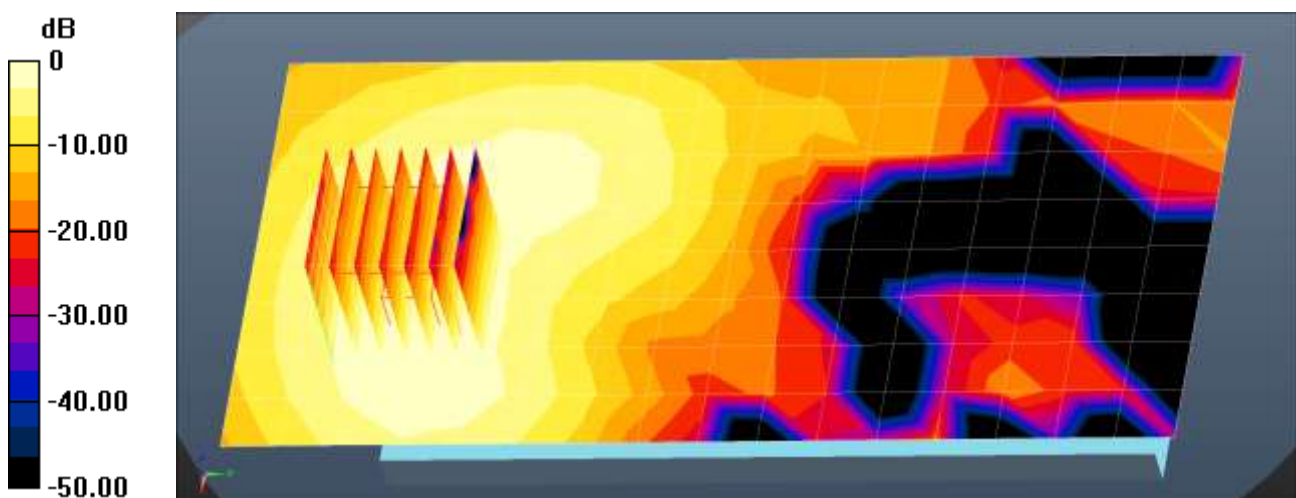
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.152 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.213 W/kg = -6.71 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8°C
Ambient Temperature: 21.0°C
Test Date: 04/22/2022
Plot No.: 65

Communication System: UID 0, n66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 41.592$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

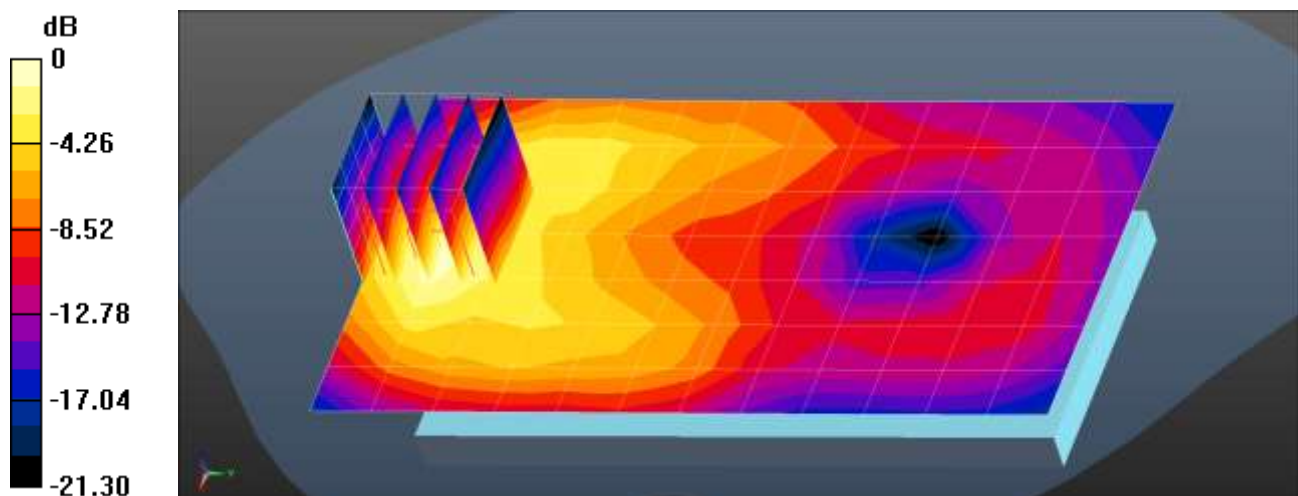
- Probe: EX3DV4 - SN3972; ConvF(8.12, 8.12, 8.12) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n66 Bodyworn Rear DFT-S QPSK 40MHz 108RB 54offset 349000ch/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.798 W/kg

NR Band n66 Bodyworn Rear DFT-S QPSK 40MHz 108RB 54offset 349000ch/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.099 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.900 W/kg
SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.351 W/kg
Maximum value of SAR (measured) = 0.792 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.8°C
Ambient Temperature: 22.0°C
Test Date: 04/21/2022
Plot No.: 66

Communication System: UID 0, NR n71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 44.156$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

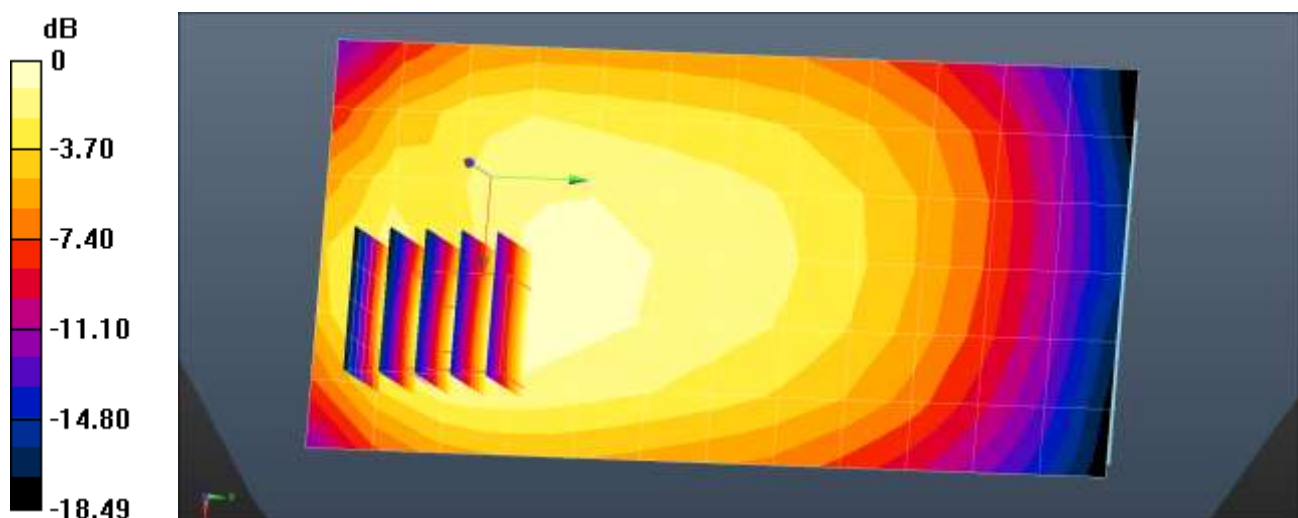
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 680.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 71 Bodyworn Rear DFT-s QPSK 20MHz 1RB 1offset 136100ch/Area Scan (7x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.172 W/kg

NR Band 71 Bodyworn Rear DFT-s QPSK 20MHz 1RB 1offset 136100ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 11.72 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.208 W/kg
SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.081 W/kg
Maximum value of SAR (measured) = 0.175 W/kg



0 dB = 0.172 W/kg = -7.66 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6°C
Ambient Temperature: 19.6°C
Test Date: 04/21/2022
Plot No.: 67

Communication System: UID 0, NR Band 77 (0); Frequency: 3930 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3930$ MHz; $\sigma = 3.297$ S/m; $\epsilon_r = 36.419$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(6.75, 6.75, 6.75) @ 3930 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 BodyWorn Front DFT-s QPSK 100MHz 135RB 69offset 662000ch/Area Scan (11x19x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.252 W/kg

NR Band n77 BodyWorn Front DFT-s QPSK 100MHz 135RB 69offset 662000ch/Zoom Scan

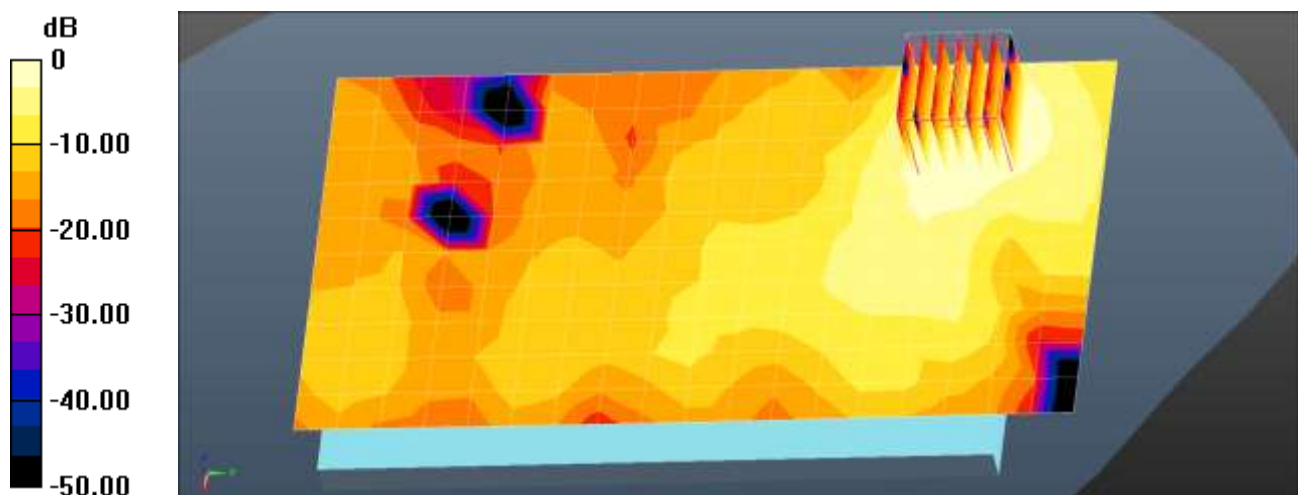
(7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.651 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.250 W/kg



0dB = 0.250 W/kg = -6.02 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 18.7°C
Ambient Temperature: 18.7°C
Test Date: 04/28/2022
Plot No.: 68

Communication System: UID 0, NR Band 77 (0); Frequency: 3500.1 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.1$ MHz; $\sigma = 2.928$ S/m; $\epsilon_r = 37.154$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

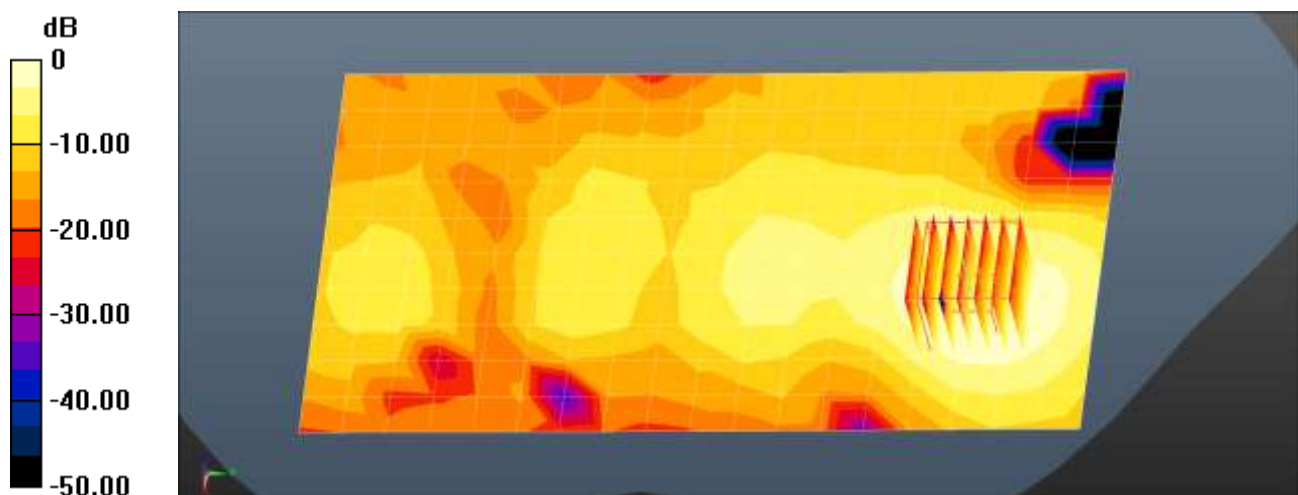
- Probe: EX3DV4 - SN7702; ConvF(7.25, 7.25, 7.25) @ 3500.1 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 BodyWorn Rear DFT-s QPSK 100MHz 1RB 1Offset 633334ch/Area Scan (11x19x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.187 W/kg

NR Band n77 BodyWorn Rear DFT-s QPSK 100MHz 1RB 1Offset 633334ch/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.225 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.048 W/kg
Maximum value of SAR (measured) = 0.194 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 20.0°C
Test Date: 05/03/2022
Plot No.: 69

Communication System: UID 0, NR n77 Duty100% (0); Frequency: 3930 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3930$ MHz; $\sigma = 3.267$ S/m; $\epsilon_r = 36.13$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(6.7, 6.7, 6.7) @ 3930 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Bodyworn Rear DFT-S QPSK 100MHz 270RB 0offset 662000ch/Area Scan (10x16x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0981 W/kg

NR Band n77 Bodyworn Rear DFT-S QPSK 100MHz 270RB 0offset 662000ch/Zoom Scan (7x7x8)/Cube

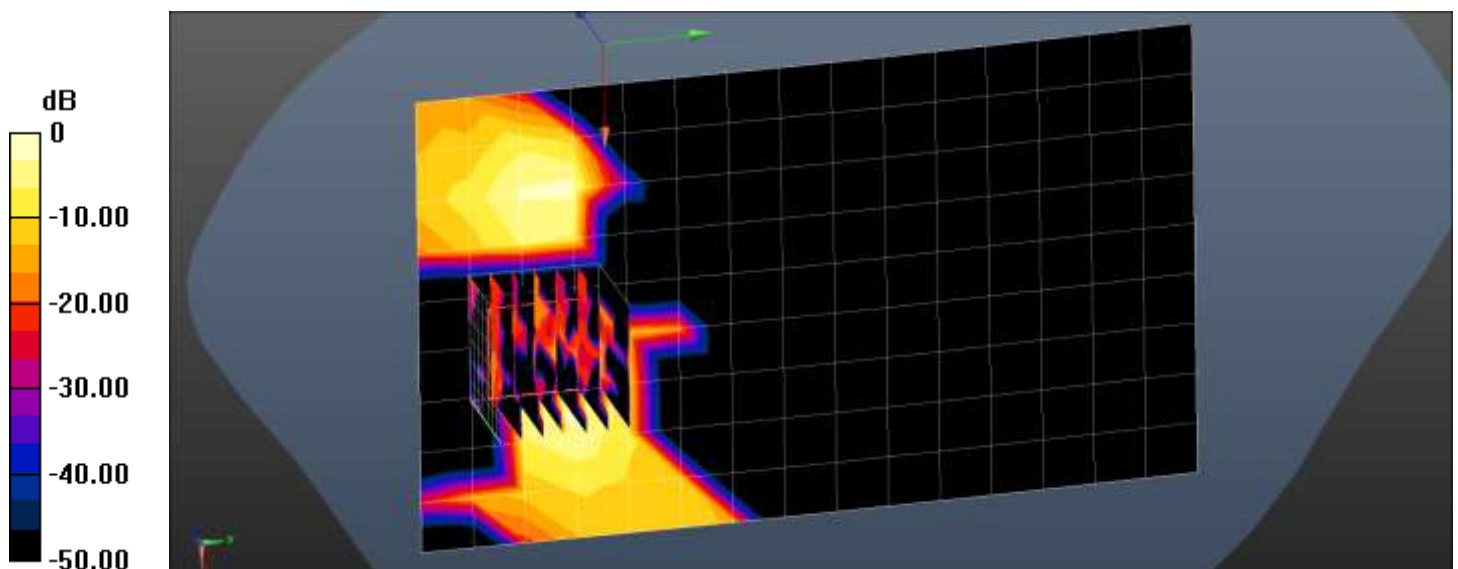
0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

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

Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.00925 W/kg

Maximum value of SAR (measured) = 0.113 W/kg



0 dB = 0.0332 W/kg = -14.79 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 20.0°C
Test Date: 05/03/2022
Plot No.: 70

Communication System: UID 0, NR n77 Duty100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.931$ S/m; $\epsilon_r = 36.479$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.25, 7.25, 7.25) @ 3500.01 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Bodyworn Rear DFT-S QPSK 100MHz 270RB 0offset 633334ch/Area Scan (10x16x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0332 W/kg

NR Band n77 Bodyworn Rear DFT-S QPSK 100MHz 270RB 0offset 633334ch/Zoom Scan (7x7x8)/Cube

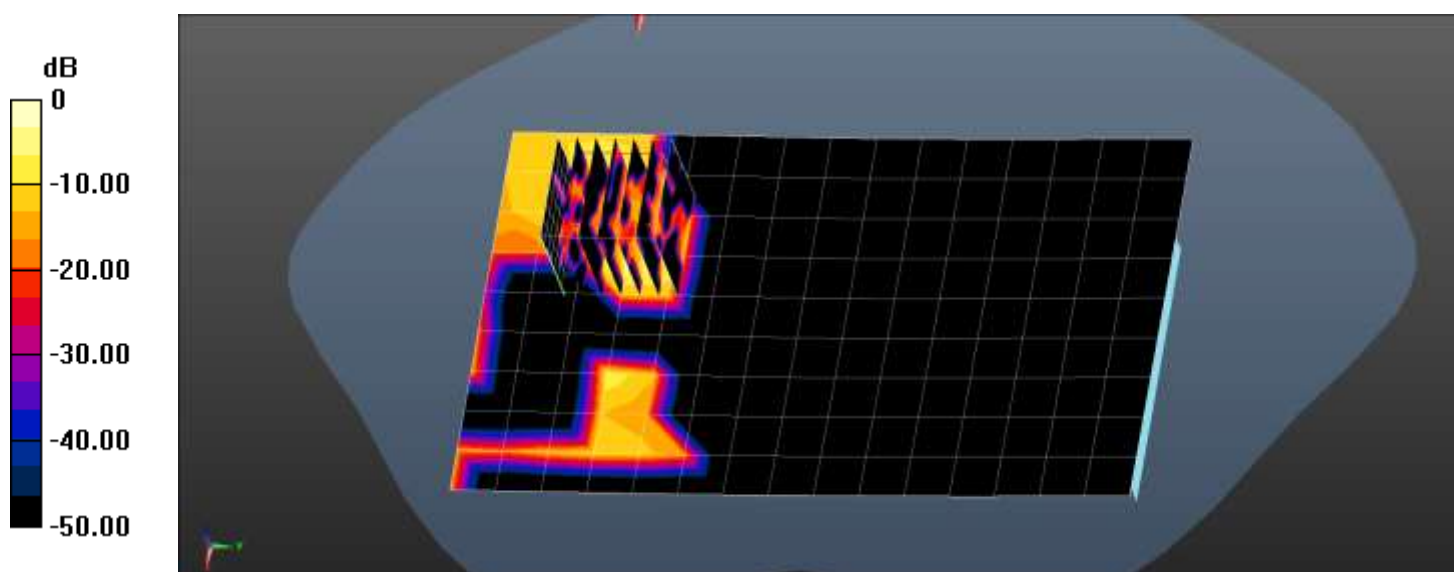
0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

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

Peak SAR (extrapolated) = 0.0570 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00372 W/kg

Maximum value of SAR (measured) = 0.0363 W/kg



0 dB = 0.0332 W/kg = -14.79 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 05/04/2022
Plot No.: 71

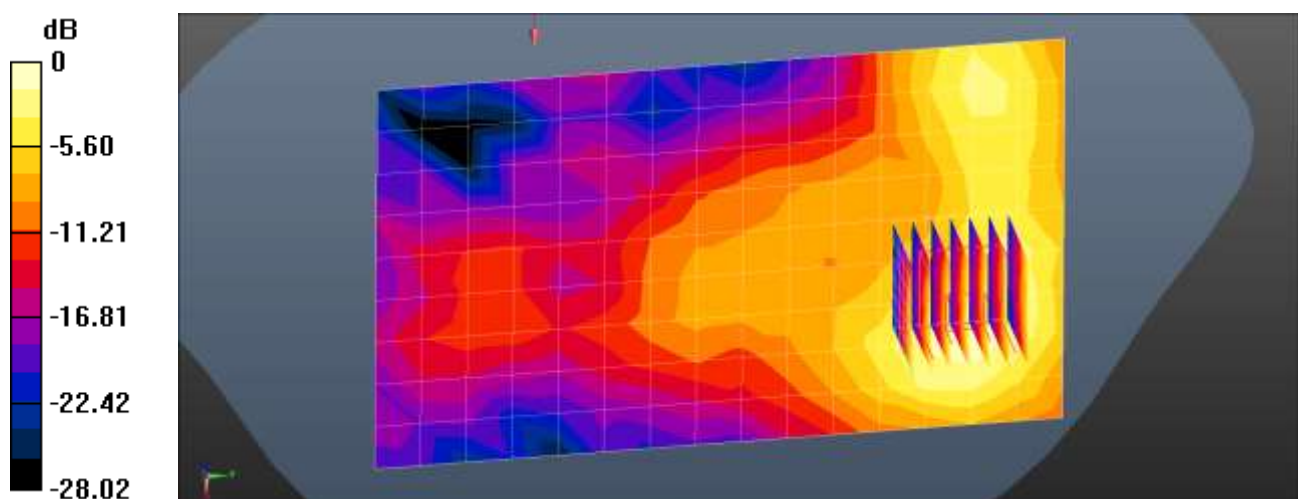
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.27$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2412 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

802.11b BodyWorn Rear 1Mbps 1ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.417 W/kg

802.11b BodyWorn Rear 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.345 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.546 W/kg
SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.141 W/kg
Maximum value of SAR (measured) = 0.439 W/kg



0 dB = 0.417 W/kg = -3.79 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 05/04/2022
Plot No.: 72

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

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

802.11b BodyWorn Rear 1Mbps 6ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.104 W/kg

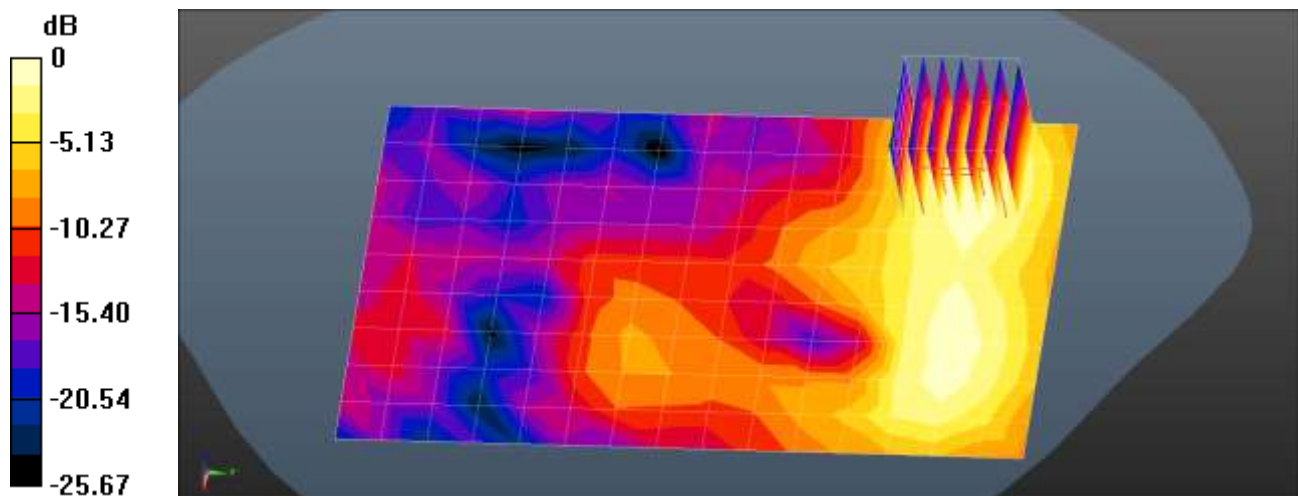
802.11b BodyWorn Rear 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.984 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.107 W/kg



0 dB = 0.104 W/kg = -9.82 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.3°C
Test Date: 05/10/2022
Plot No.: 73

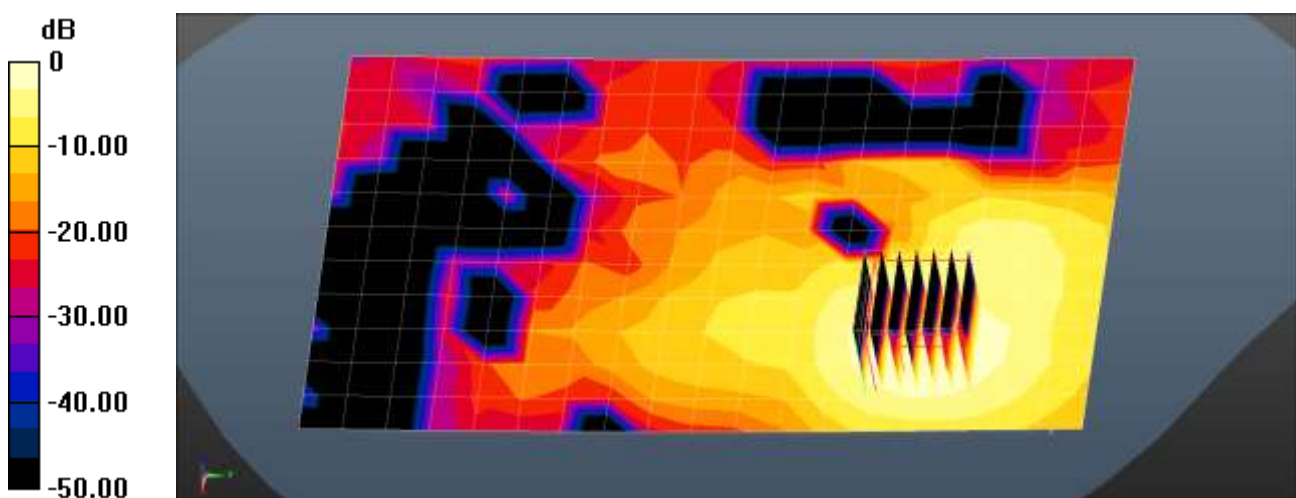
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.258$ S/m; $\epsilon_r = 35.517$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.09, 5.09, 5.09) @ 5825 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

802.11a Body Rear 6Mbps 165ch/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.857 W/kg

802.11a Body Rear 6Mbps 165ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.441 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.141 W/kg
Maximum value of SAR (measured) = 0.882 W/kg



0 dB = 0.857 W/kg = -0.67 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.1°C
Test Date: 05/04/2022
Plot No.: 74

Communication System: UID 0, WiFi5GHz ac80 (0); Frequency: 5290 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.728 \text{ S/m}$; $\epsilon_r = 35.47$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.55, 5.55, 5.55) @ 5290 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

802.11ac80 Bodyworn Rear MCS0 58ch/Area Scan (12x19x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.0505 W/kg

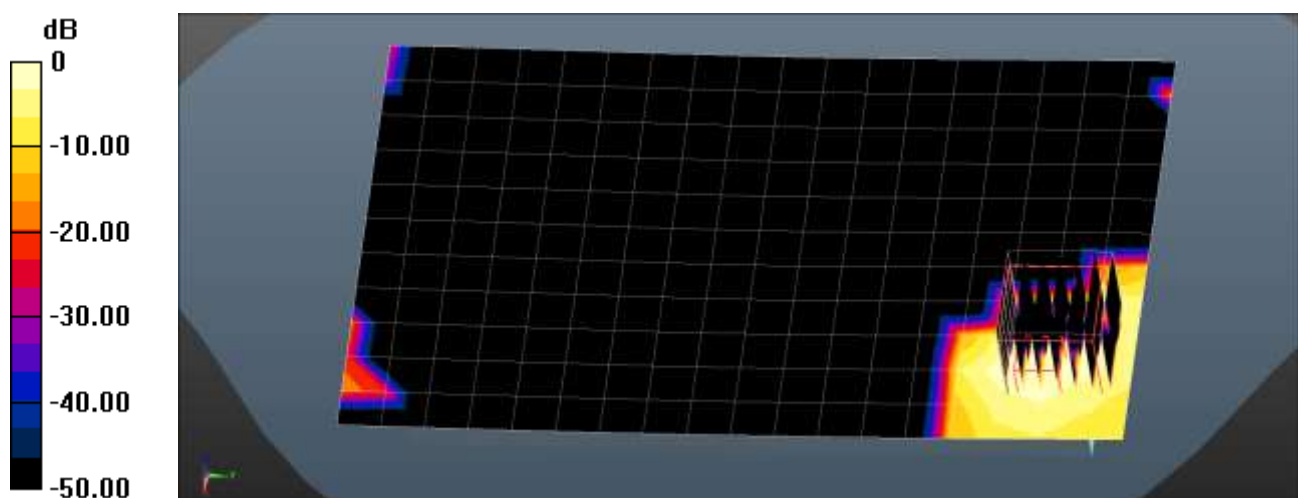
802.11ac80 Bodyworn Rear MCS0 58ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$,
 $dy=4\text{mm}$, $dz=1.4\text{mm}$

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

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00226 W/kg

Maximum value of SAR (measured) = 0.0433 W/kg



0 dB = 0.0505 W/kg = -12.97 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.8°C
Test Date: 04/22/2022
Plot No.: 75

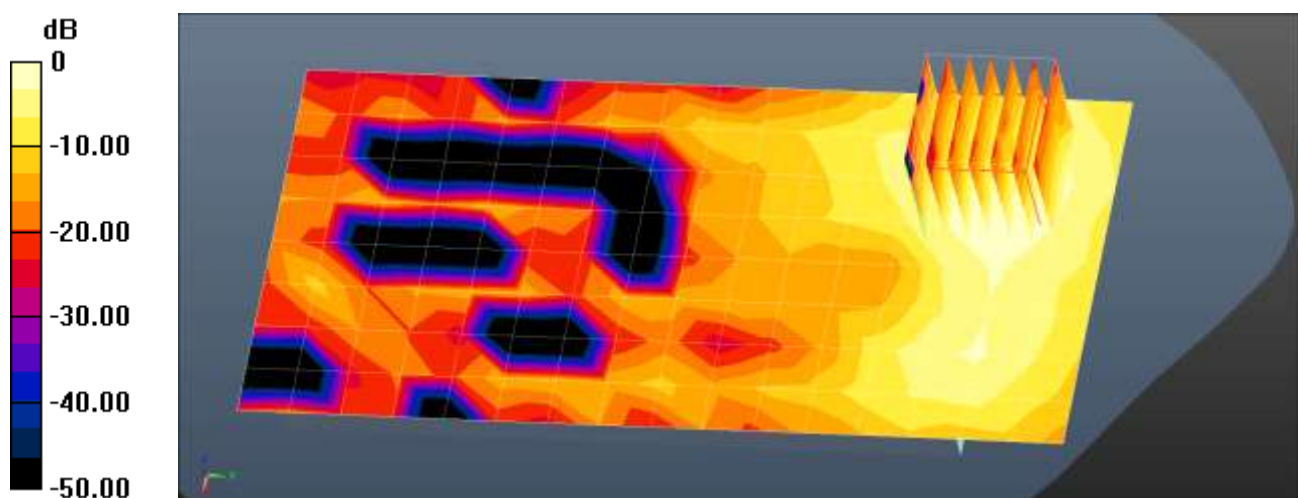
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302
Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 39.232$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2441 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Bluetooth Bodyworn Rear DH5 39ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0780 W/kg

Bluetooth Bodyworn Rear DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.0970 W/kg
SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.025 W/kg
Maximum value of SAR (measured) = 0.0764 W/kg



0 dB = 0.0780 W/kg = -11.08 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.9 °C
Ambient Temperature: 22.0 °C
Test Date: 04/15/2022
Plot No.: 76

Communication System: UID 0, CDMA 835MHz FCC (0); Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 41.922$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 836.52 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4);

CDMA BC0 Body Rear 384ch EVDO Rev.0/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.865 W/kg

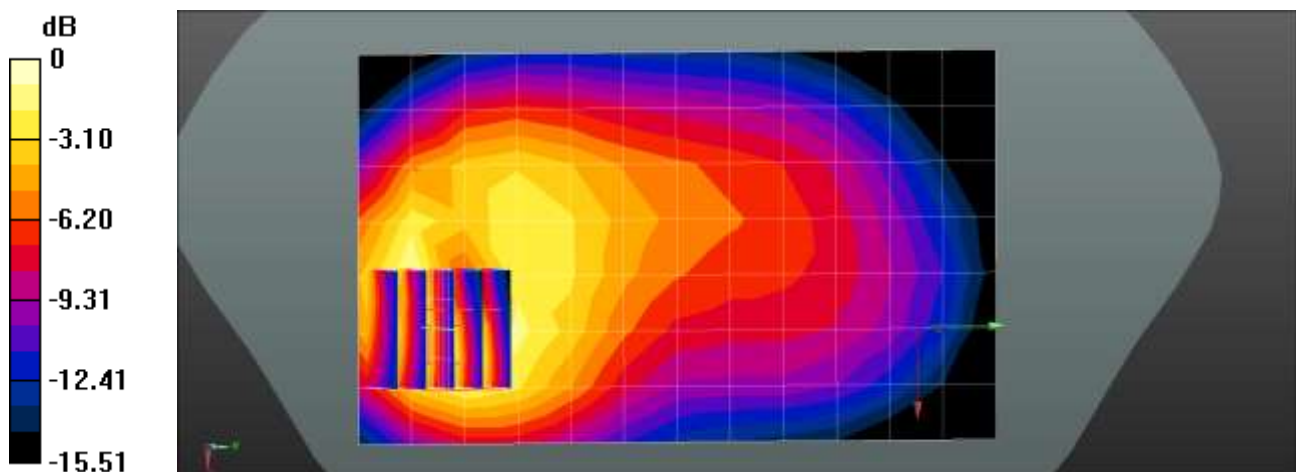
CDMA BC0 Body Rear 384ch EVDO Rev.0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.78 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.363 W/kg

Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.946 W/kg = -0.24 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 °C

Ambient Temperature: 20.1 °C
Test Date: 04/25/2022
Plot No.: 77

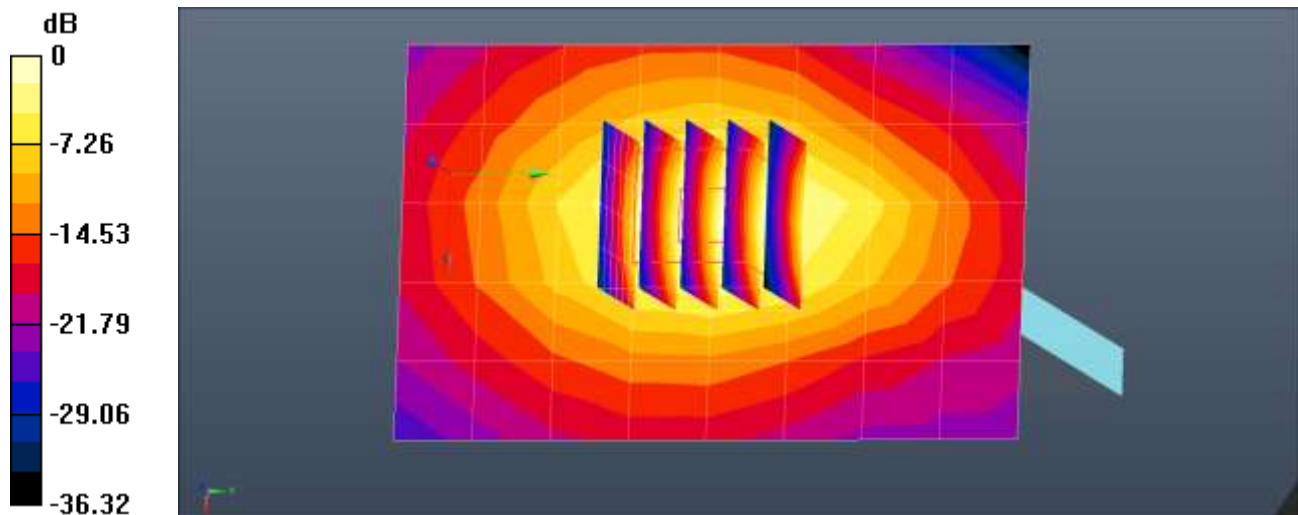
Communication System: UID 0, CDMA BC1(1900MHz) (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 40.954$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC1 Body Bottom 600ch EVDO Rev.0/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.29 W/kg

CDMA BC1 Body Bottom 600ch EVDO Rev.0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.72 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.480 W/kg
Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.29 W/kg = 1.12 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1 °C
Ambient Temperature: 21.2 °C
Test Date: 04/18/2022
Plot No.: 78

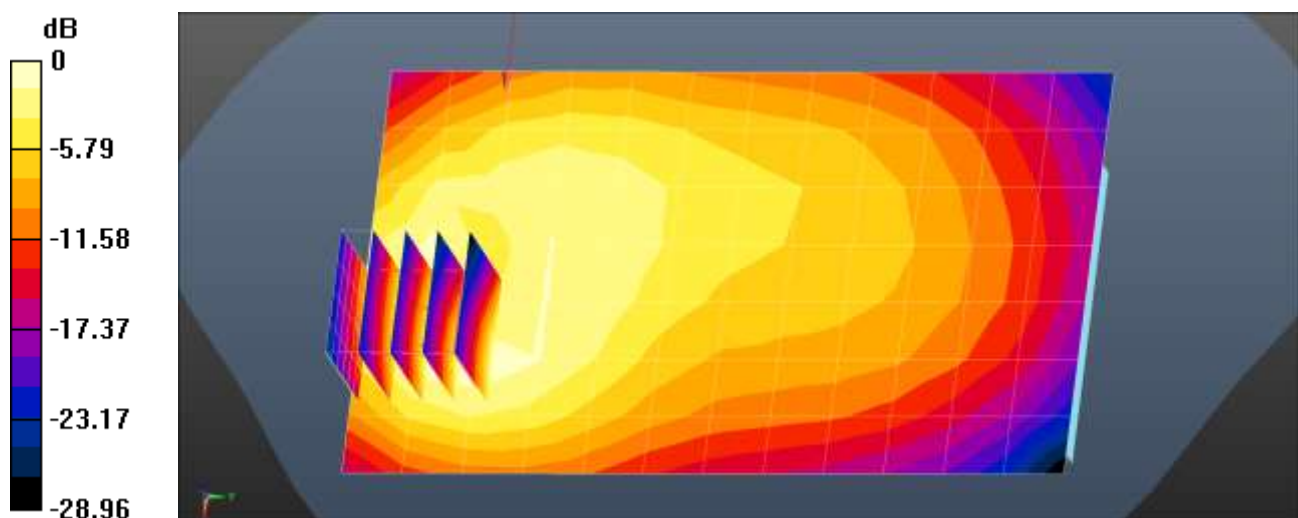
Communication System: UID 0, CDMA BC10 (FCC) (0); Frequency: 820 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 820 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 41.961$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 820 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC10 Body Rear 560ch EVDO Rev.0/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.750 W/kg

CDMA BC10 Body Rear 560ch EVDO Rev.0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.19 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.977 W/kg
SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.307 W/kg
Maximum value of SAR (measured) = 0.810 W/kg



0 dB = 0.750 W/kg = -1.25 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.9 °C
Ambient Temperature: 20.0 °C
Test Date: 04/14/2022
Plot No.: 79

Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.551$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

GSM850 2Tx Body Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.897 W/kg

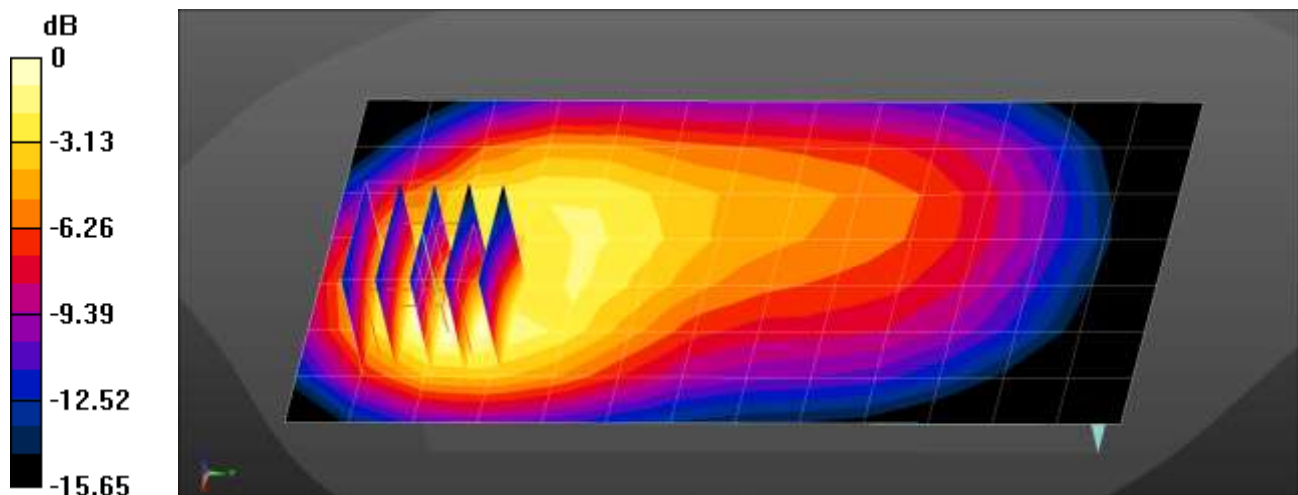
GSM850 2Tx Body Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.65 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 0.903 W/kg



0 dB = 0.903 W/kg = -0.44 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.4 °C
Ambient Temperature: 20.5 °C
Test Date: 04/14/2022
Plot No.: 80

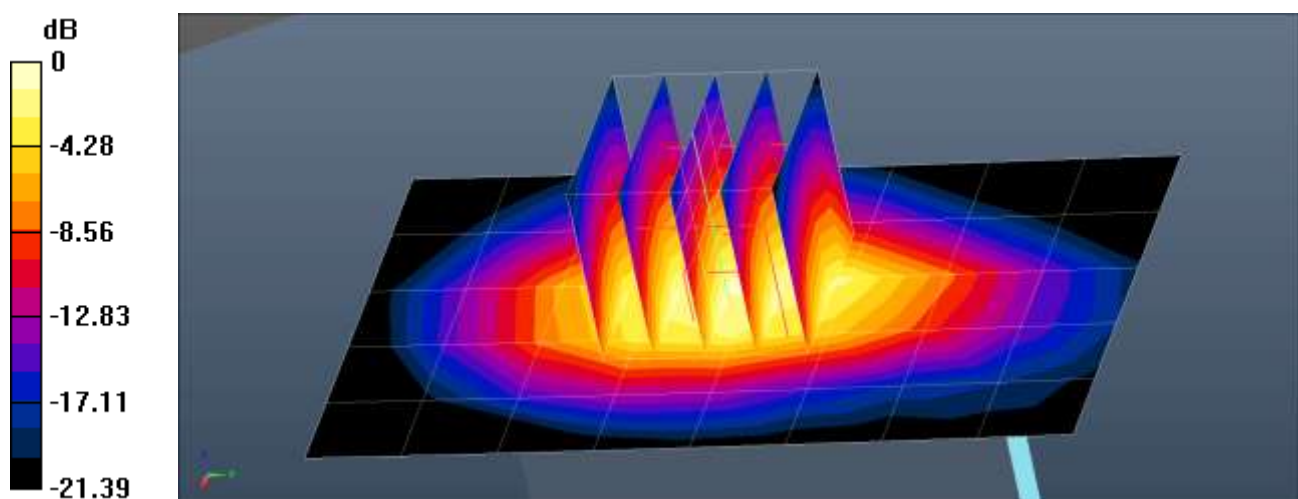
Communication System: UID 0, GSM 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 40.776$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

GSM1900 1Tx Body Bottom 661ch/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.499 W/kg

GSM1900 1Tx Body Bottom 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.60 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.713 W/kg
SAR(1 g) = 0.379 W/kg; SAR(10 g) = 0.196 W/kg
Maximum value of SAR (measured) = 0.592 W/kg



0 dB = 0.592 W/kg = -2.28 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6 °C
Ambient Temperature: 19.8 °C
Test Date: 04/13/2022
Plot No.: 81

Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.579$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 5 Body Rear 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.828 W/kg

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

Reference Value = 16.92 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.351 W/kg

Maximum value of SAR (measured) = 0.925 W/kg

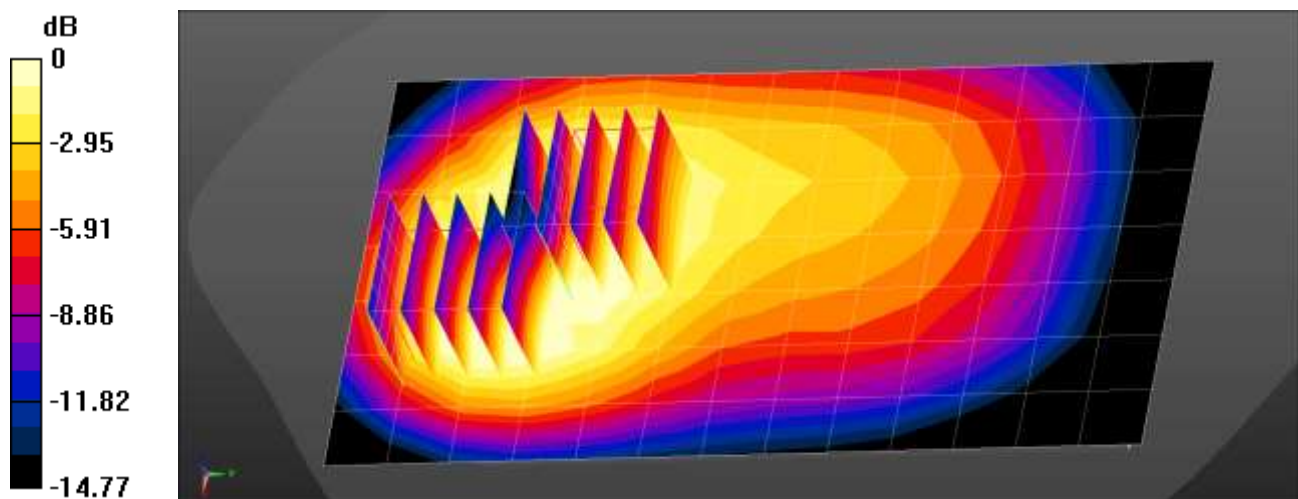
UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.92 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.605 W/kg



0 dB = 0.605 W/kg = -2.18 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 °C
Ambient Temperature: 19.2 °C
Test Date: 04/13/2022
Plot No.: 82

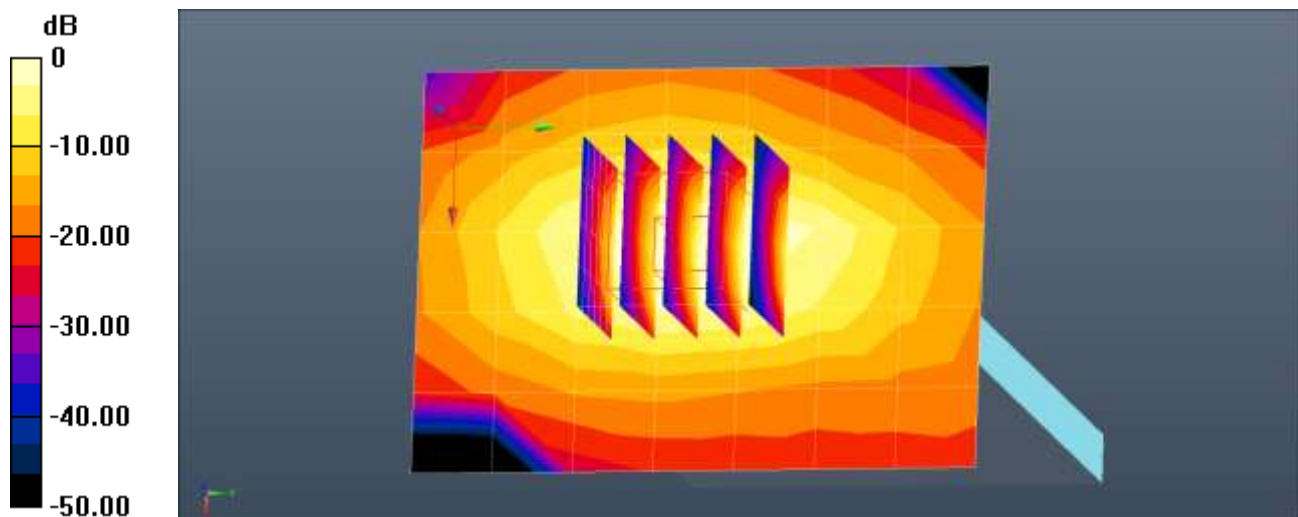
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 41.624$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1732.4 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 4 Body Bottom 1412ch/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.625 W/kg

UMTS Band 4 Body Bottom 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.96 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.965 W/kg
SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.801 W/kg



0 dB = 0.625 W/kg = -2.04 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.7 °C
Ambient Temperature: 19.7 °C
Test Date: 04/12/2022
Plot No.: 83

Communication System: UID 0, WCDMA1900 (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 40.85$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1907.6 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 2 Body Bottom 9538ch/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.958 W/kg

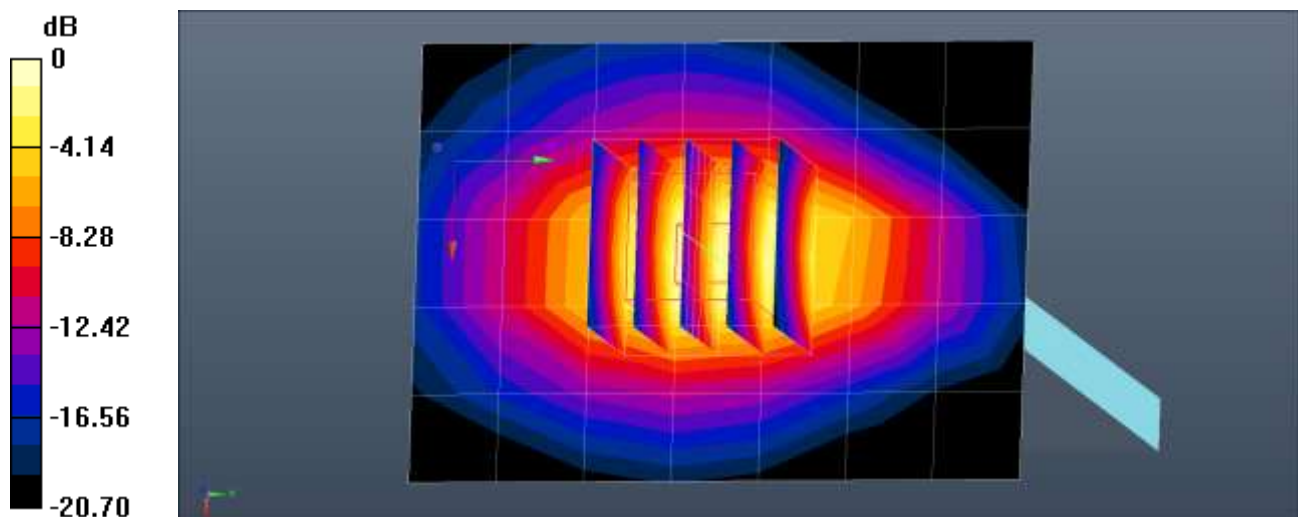
UMTS Band 2 Body Bottom 9538ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.58 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.501 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.3°C
Ambient Temperature: 22.4°C
Test Date: 04/14/2022
Plot No.: 84

Measurement Report for Device, EDGE BOTTOM, Band 7, E-UTRA/FDD, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, Channel 20850 (2510.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 10.00	Band 7, E-UTRA/FDD	LTE-FDD, 10297-AAD	2510.0, 20850	7.57	1.81	39.1

Hardware Setup

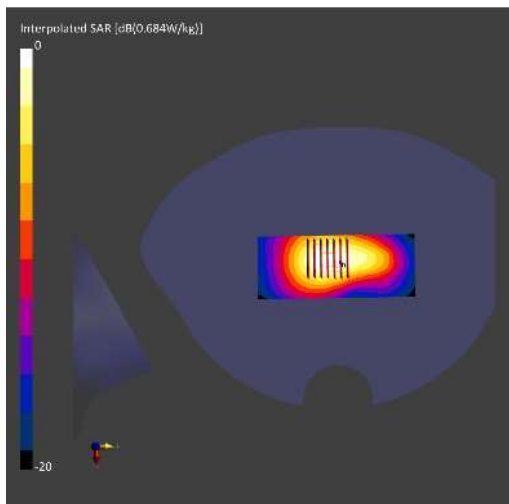
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.540	0.542
psSAR10g [W/Kg]	0.274	0.265
Power Drift [dB]	-0.02	-0.03



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.9°C
Ambient Temperature: 21.1°C
Test Date: 04/13/2022
Plot No.: 85

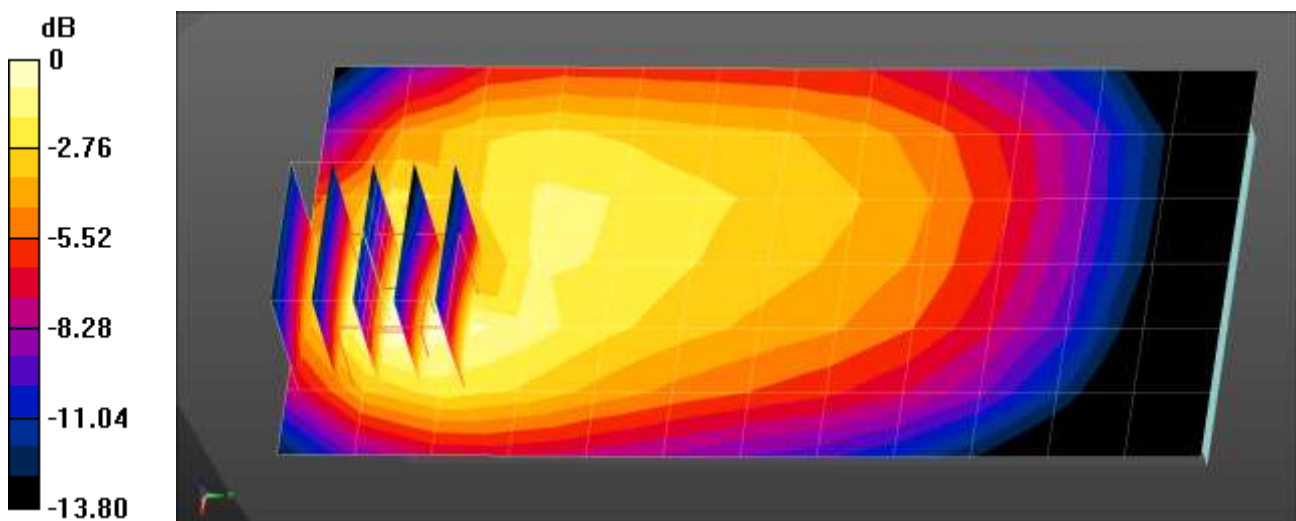
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 43.183$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 707.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 12 Body Rear QPSK 10MHz 1RB 0offset 23095ch/Area Scan (7x13x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.371 W/kg

LTE Band 12 Body Rear QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.66 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.464 W/kg
SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.153 W/kg
Maximum value of SAR (measured) = 0.385 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.1°C
Ambient Temperature: 20.1°C
Test Date: 04/14/2022
Plot No.: 86

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 42.044$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 782 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 13 Body Rear QPSK 10MHz 1RB 49offset 23230ch/Area Scan (7x13x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.746 W/kg

LTE Band 13 Body Rear QPSK 10MHz 1RB 49offset 23230ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.892 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.324 W/kg

Maximum value of SAR (measured) = 0.749 W/kg

LTE Band 13 Body Rear QPSK 10MHz 1RB 49offset 23230ch/Zoom Scan (5x5x7)/Cube 1:

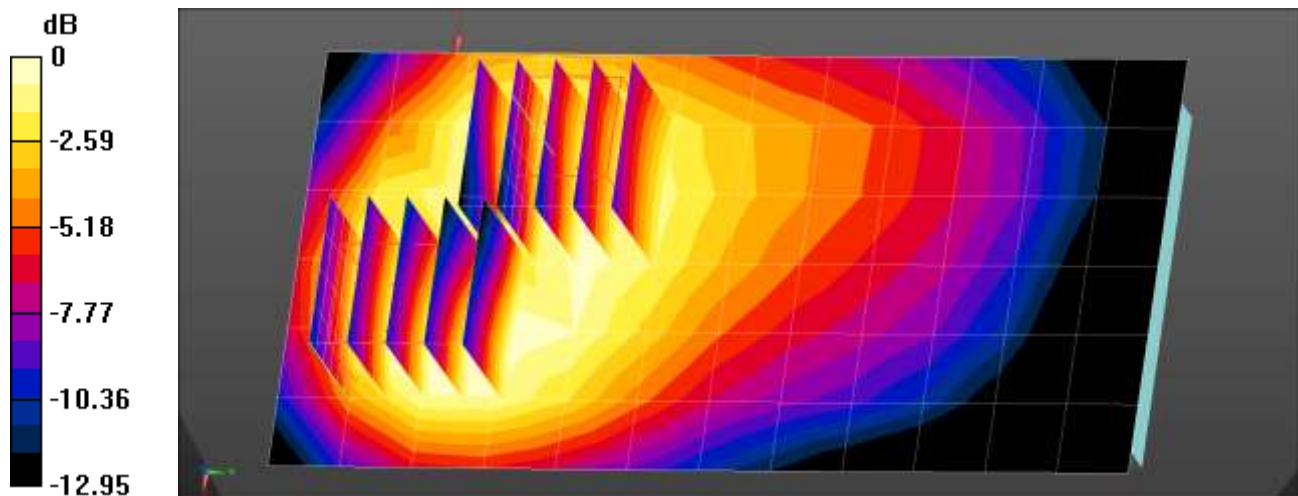
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.641 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.322 W/kg

Maximum value of SAR (measured) = 0.579 W/kg



0 dB = 0.579 W/kg = -2.37 dBW/kg

Test Laboratory: HCT CO., LTD
 EUT Type: Mobile Phone
 Liquid Temperature: 19.9°C
 Ambient Temperature: 19.9°C
 Test Date: 04/15/2022
 Plot No.: 87
 Communication System: UID 0, LTE 14 (0); Frequency: 793 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 793 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

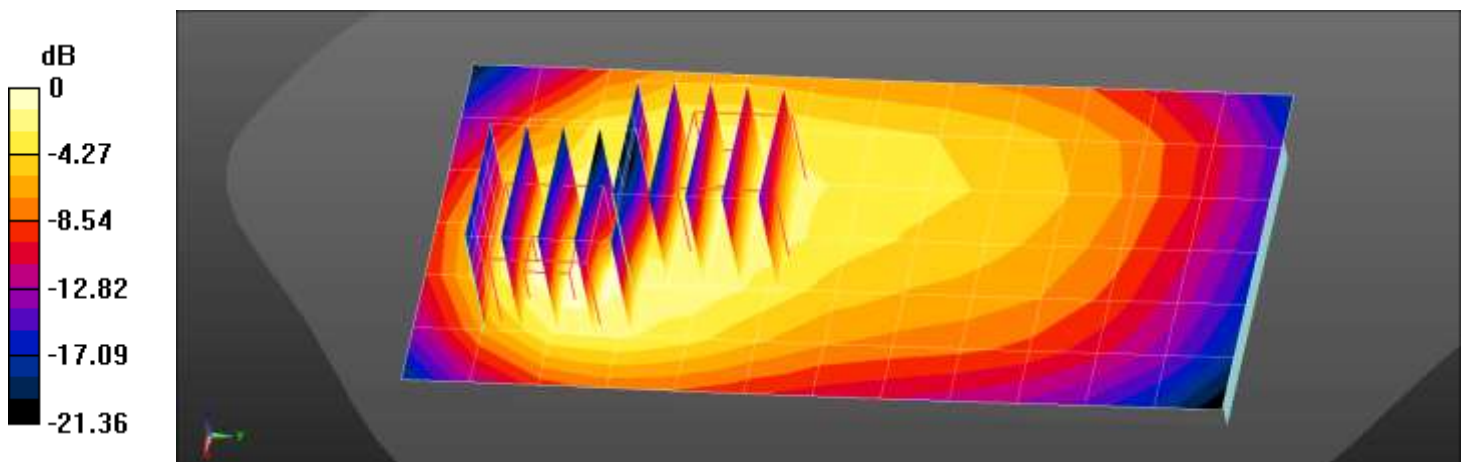
DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 793 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 14 Body Rear QPSK 10MHz 1RB 24offset 23330ch/Area Scan (7x13x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.703 W/kg

LTE Band 14 Body Rear QPSK 10MHz 1RB 24offset 23330ch/Zoom Scan (5x5x7)/Cube
0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17.92 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.811 W/kg
SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.266 W/kg
 Maximum value of SAR (measured) = 0.662 W/kg

LTE Band 14 Body Rear QPSK 10MHz 1RB 24offset 23330ch/Zoom Scan (5x5x7)/Cube
1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17.92 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.614 W/kg
SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.285 W/kg
 Maximum value of SAR (measured) = 0.527 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.2°C
Test Date: 04/21/2022
Plot No.: 88

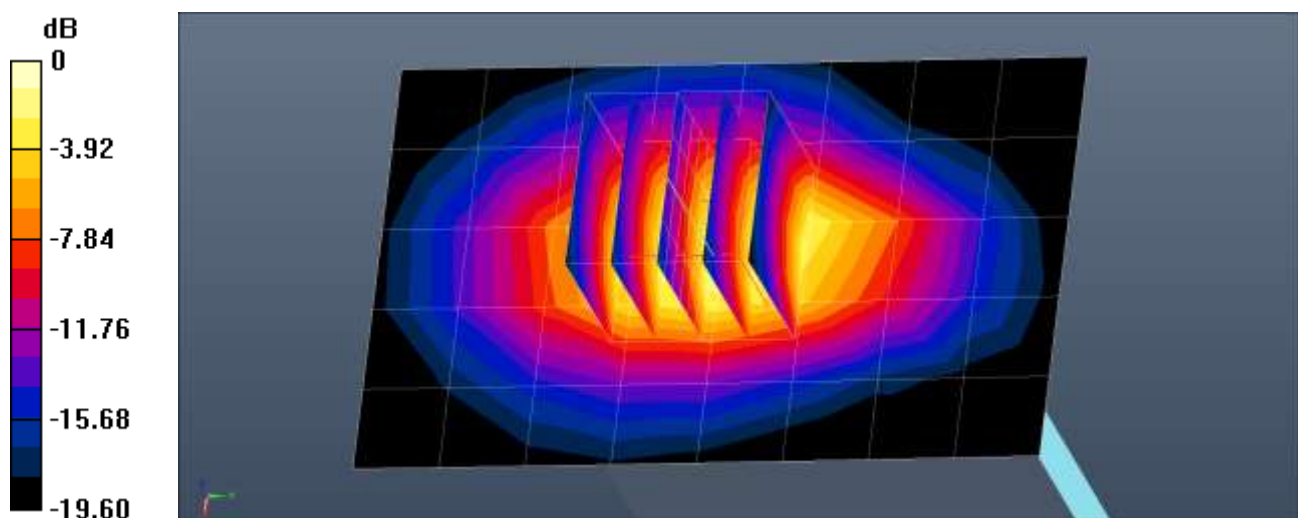
Communication System: UID 0, LTE Band 25 (0); Frequency: 1860 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1860$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 40.719$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1860 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 25 Body Bottom QPSK 20MHz 50RB 0offset 26140ch/Area Scan (6x9x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.811 W/kg

LTE Band 25 Body Bottom QPSK 20MHz 50RB 0offset 26140ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.64 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.338 W/kg
Maximum value of SAR (measured) = 1.01 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.4°C
Ambient Temperature: 19.5°C
Test Date: 04/18/2022
Plot No.: 89

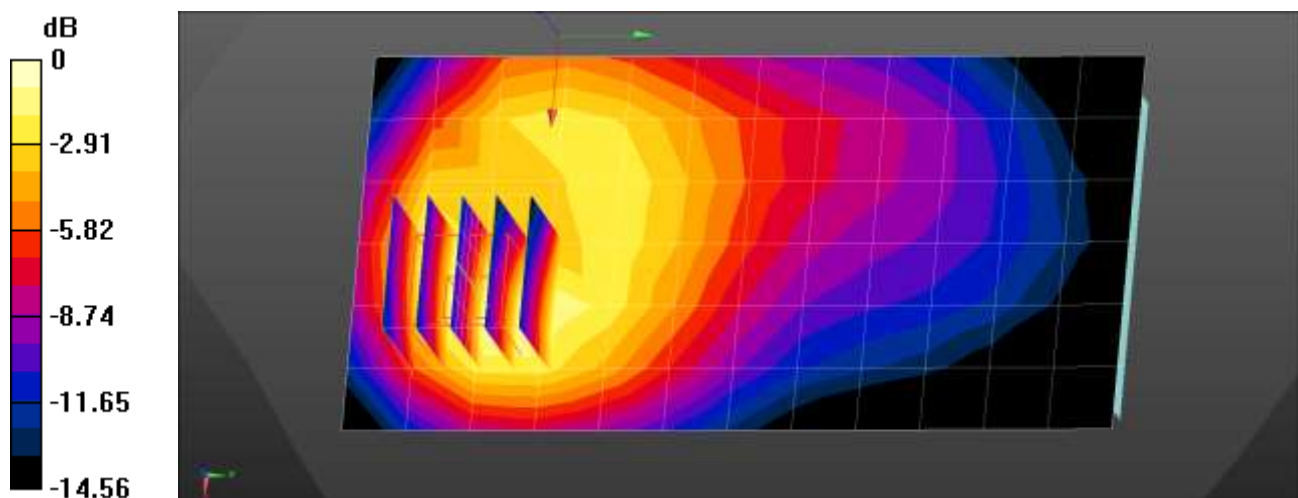
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 41.652$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.4, 10.4, 10.4) @ 831.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 26 Body Rear QPSK 15MHz 1RB 0offset 26865ch/Area Scan (7x13x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.751 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 = 12.07 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.894 W/kg
SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.316 W/kg
Maximum value of SAR (measured) = 0.746 W/kg



0 dB = 0.746 W/kg = -1.27 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 04/19/2022
Plot No.: 90

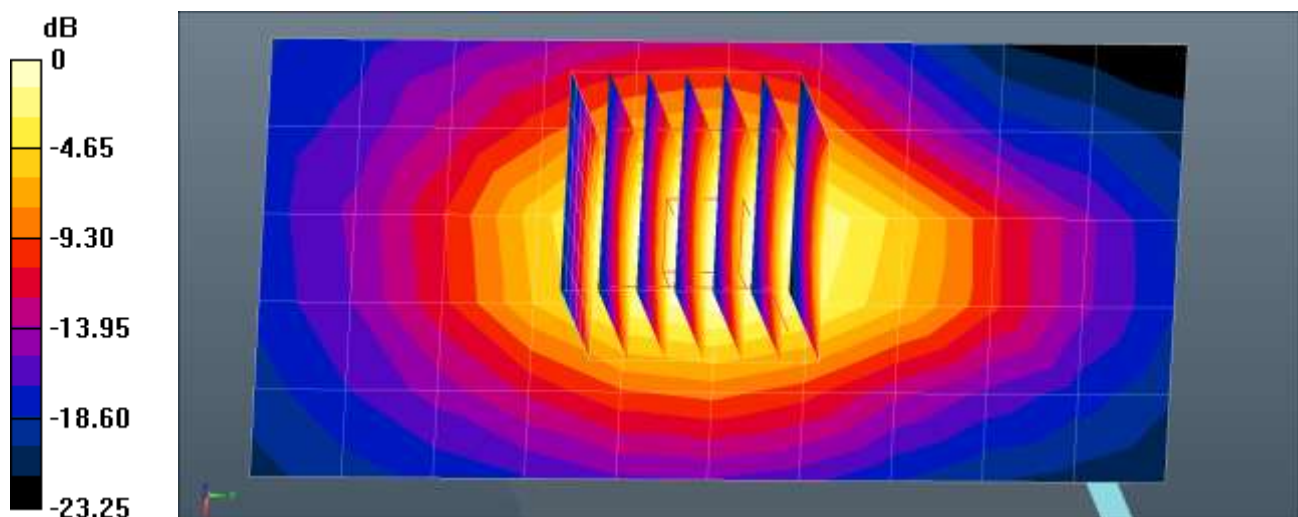
Communication System: UID 0, LTE Band 30 (0); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2310$ MHz; $\sigma = 1.723$ S/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.94, 4.94, 4.94) @ 2310 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 30 Body Bottom QPSK 10MHz 25RB 12offset 27710ch/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.884 W/kg

LTE Band 30 Body Bottom QPSK 10MHz 25RB 12offset 27710ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.19 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.395 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 0.884 W/kg = -0.53 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.6°C
Ambient Temperature: 20.7°C
Test Date: 04/15/2022
Plot No.: 91

EDGE BOTTOM, Band 40, E-UTRA/TDD, LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) Channel 38750 (2310.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	156.0 x 79.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 10.00	Band 40, E-UTRA/TDD	LTE-TDD, 10252-CAG	2310.0, 38750	7.77	1.72	39.9

Hardware Setup

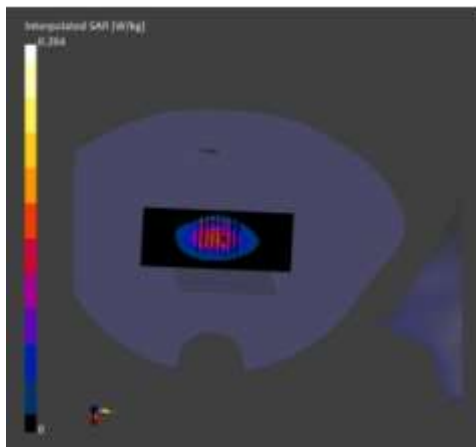
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	4.4 x 4.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Surface Detection	VMS + 6p	VMS + 6p

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.112	0.123
psSAR10g [W/Kg]	0.056	0.061
Power Drift [dB]	-0.17	-0.17



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.5°C
Ambient Temperature: 20.7°C
Test Date: 04/18/2022
Plot No.: 92

EDGE Bottom, Band 40, E-UTRA/TDD, LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) Channel 39200 (2355.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	156.0 x 79.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 10.00	Band 40, E-UTRA/TDD	LTE-TDD, 10252-CAG	2355.0, 39200	7.77	1.76	39.8

Hardware Setup

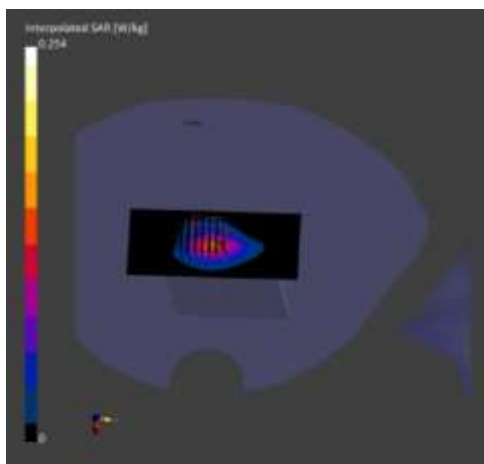
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.112	0.129
psSAR10g [W/Kg]	0.050	0.060
Power Drift [dB]	-0.05	-0.05



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 23.7°C
Ambient Temperature: 23.8°C
Test Date: 04/15/2022
Plot No.: 93

Measurement Report for Device, EDGE BOTTOM, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 39750 (2506.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 10.00	Band 41, E-UTRA/TDD	LTE-TDD, 10494-AAF	2506.0, 39750	7.57	1.80	39.2

Hardware Setup

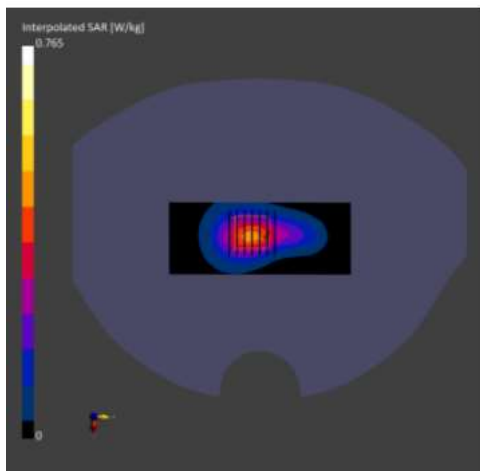
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.374	0.377
psSAR10g [W/Kg]	0.190	0.185
Power Drift [dB]	0.07	-0.04



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.3°C
Ambient Temperature: 21.4°C
Test Date: 04/21/2022
Plot No.: 94

Measurement Report for Device, EDGE BOTTOM, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 39750 (2506.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 10.00	Band 41, E-UTRA/TDD	LTE-TDD, 10494-AAF	2506.0, 39750	7.57	1.87	38.4

Hardware Setup

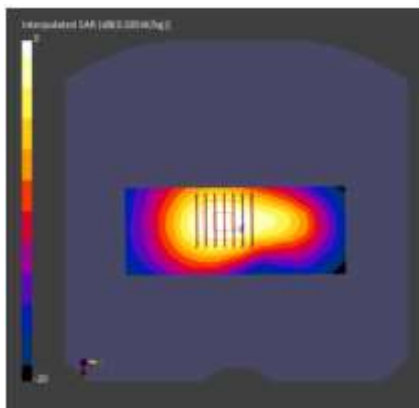
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.460	0.459
psSAR10g [W/Kg]	0.230	0.223
Power Drift [dB]	0.01	-0.06



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.2°C
Ambient Temperature: 19.3°C
Test Date: 04/19/2022
Plot No.: 95

Communication System: UID 0, LTE 48 (0); Frequency: 3560 MHz; Duty Cycle: 1:1.58125
Medium parameters used: $f = 3560$ MHz; $\sigma = 2.962$ S/m; $\epsilon_r = 37.556$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

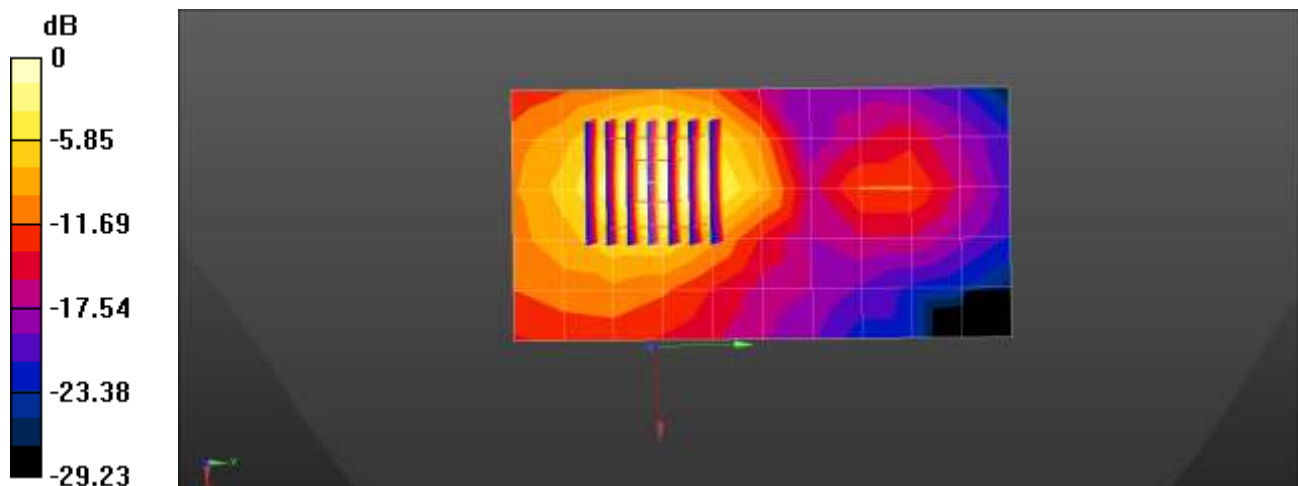
DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.15, 7.15, 7.15) @ 3560 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 48 Body Top QPSK 20MHz 50RB 49offset 55340ch/Area Scan (6x11x1): Measurement grid:
dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.391 W/kg

LTE Band 48 Body Top QPSK 20MHz 50RB 49offset 55340ch/Zoom Scan (7x7x8)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 3.443 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.544 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.401 W/kg



0 dB = 0.401 W/kg = -3.97 dBW/kg

Test Laboratory: HCT CO., LTD
 EUT Type: Mobile Phone
 Liquid Temperature: 20.4°C
 Ambient Temperature: 20.5°C
 Test Date: 04/19/2022
 Plot No.: 96
 Communication System: UID 0, LTE Band66 (0); Frequency: 1772.5 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1772.5$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 40.946$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.16, 9.16, 9.16) @ 1772.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 66 Body Bottom QPSK 15MHz 1RB 0offset 132597ch/Area Scan (7x8x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.34 W/kg

LTE Band 66 Body Bottom QPSK 15MHz 1RB 0offset 132597ch/Zoom Scan (5x5x7)/Cube 0:

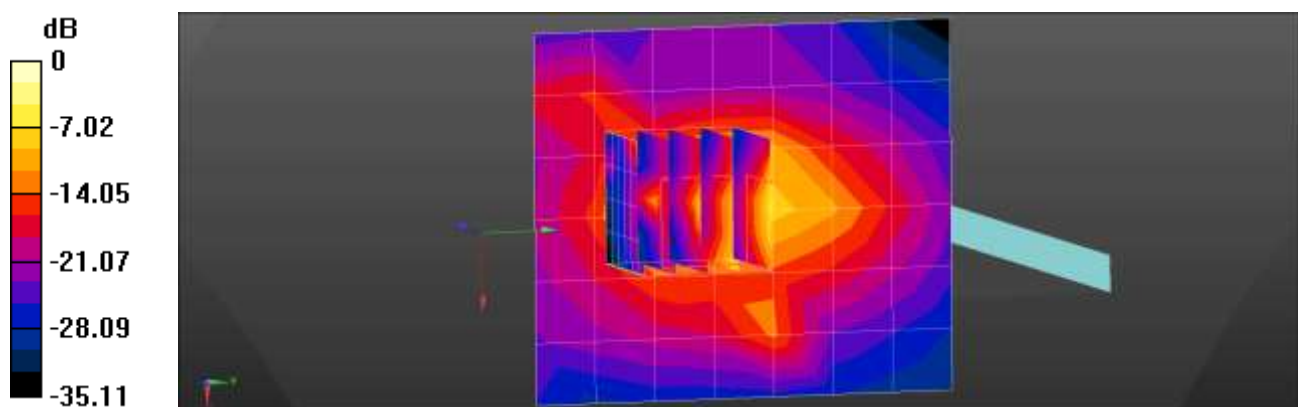
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 23.96 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 2.15 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.9°C
Test Date: 04/12/2022
Plot No.: 97

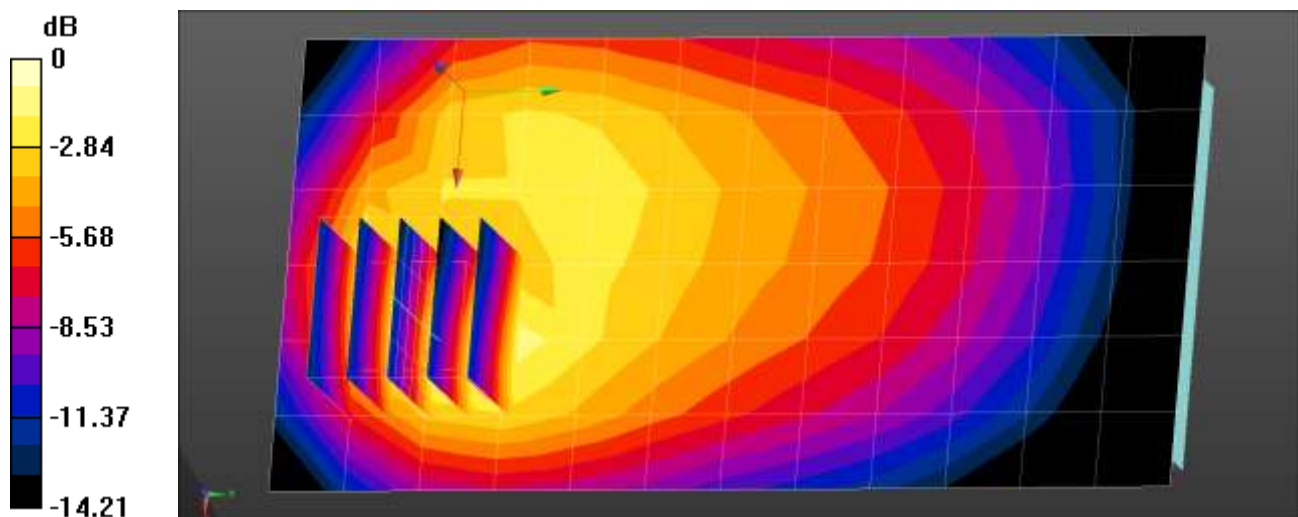
Communication System: UID 0, LTE 71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 43.602$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 680.5 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 71 Body Rear QPSK 20MHz 1RB 49offset 133297ch/Area Scan (7x13x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.476 W/kg

LTE Band 71 Body Rear QPSK 20MHz 1RB 49offset 133297ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.19 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.567 W/kg
SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.179 W/kg
Maximum value of SAR (measured) = 0.470 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.8°C
Ambient Temperature: 21.9°C
Test Date: 04/19/2022
Plot No.: 98

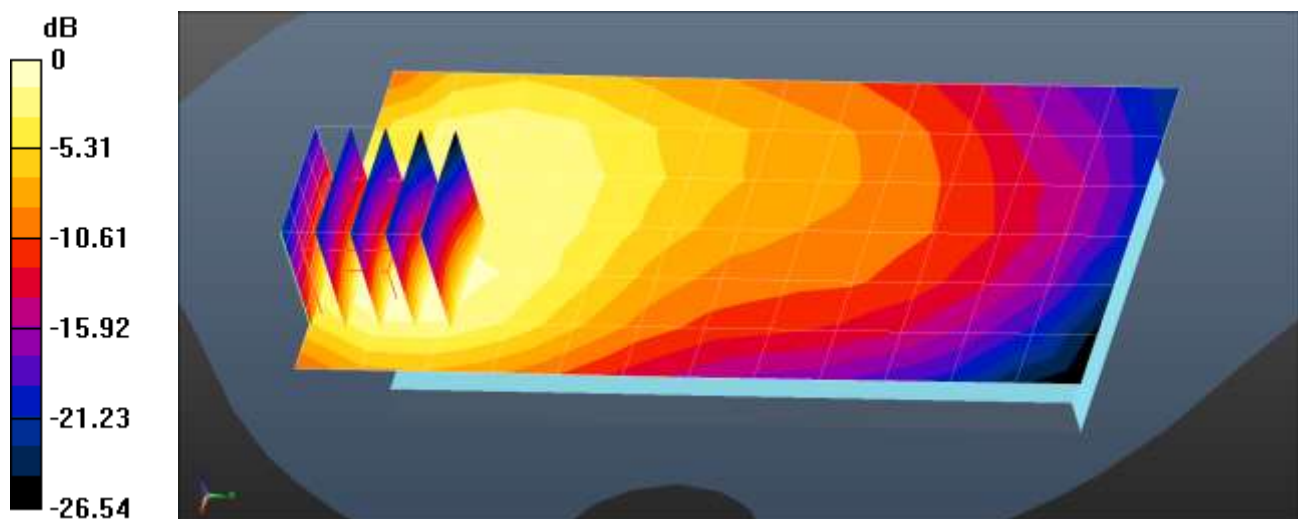
Communication System: UID 0, NR n5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 41.419$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 836.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 5 Body Rear DFT-s QPSK 20MHz 50RB 28offset 167300ch/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.455 W/kg

NR Band 5 Body Rear DFT-s QPSK 20MHz 50RB 28offset 167300ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.863 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.580 W/kg
SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.485 W/kg



0 dB = 0.455 W/kg = -3.42 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.1°C
Test Date: 04/20/2022
Plot No.: 99

Communication System: UID 0, NR n12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.864$ S/m; $\epsilon_r = 43.265$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

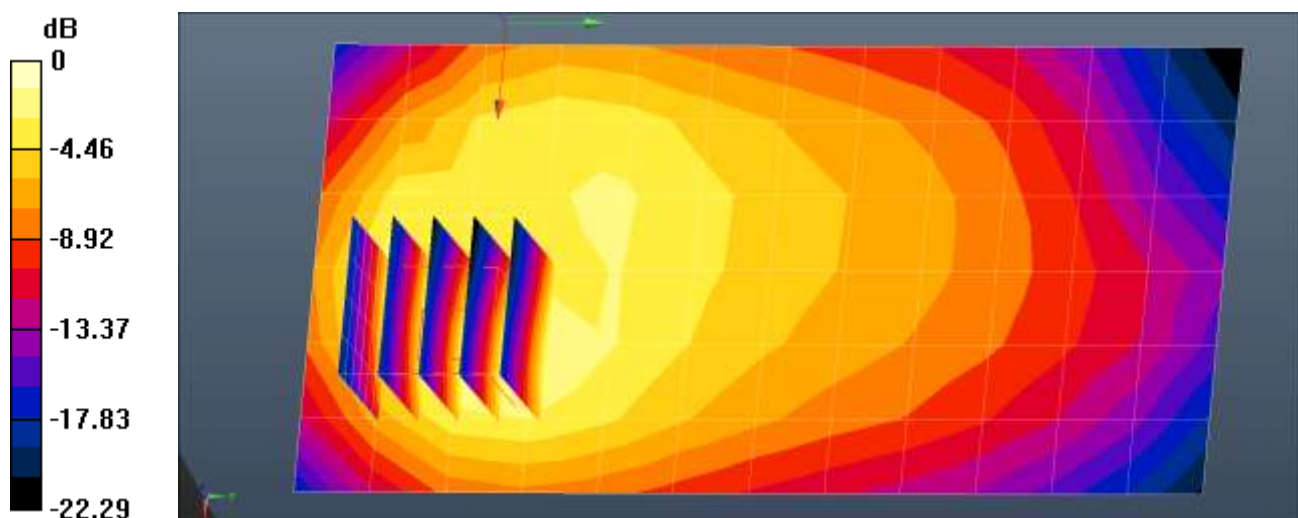
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 707.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 12 Body Rear DFT-s QPSK 15MHz 36RB 22offset 141500ch/Area Scan (7x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.338 W/kg

NR Band 12 Body Rear DFT-s QPSK 15MHz 36RB 22offset 141500ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 10.91 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.402 W/kg
SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.122 W/kg
Maximum value of SAR (measured) = 0.326 W/kg



0 dB = 0.338 W/kg = -4.71 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1°C
Ambient Temperature: 19.2°C
Test Date: 04/28/2022
Plot No.: 100

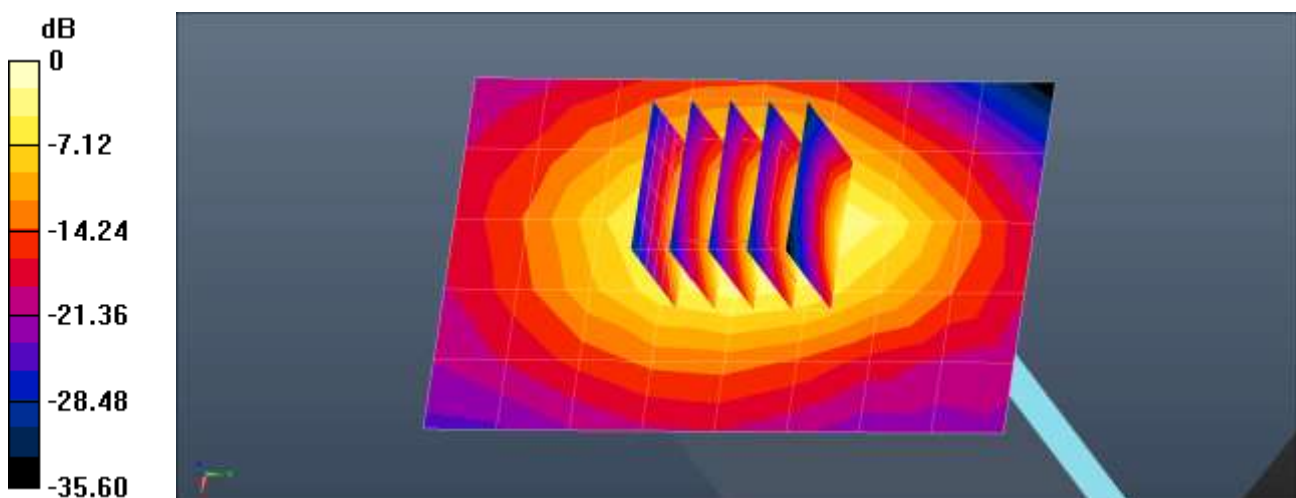
Communication System: UID 0, n25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.88$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1882.5 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n25 Body Bottom CP QPSK 40MHz 1RB 1offset 376500ch/Area Scan (6x9x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.04 W/kg

NR Band n25 Body Bottom CP QPSK 40MHz 1RB 1offset 376500ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.00 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.390 W/kg
Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.04 W/kg = 0.16 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.1°C
Ambient Temperature: 20.2°C
Test Date: 04/26/2022
Plot No.: 101

Communication System: UID 0, NR n30 (0); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2310$ MHz; $\sigma = 1.722$ S/m; $\epsilon_r = 39.904$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

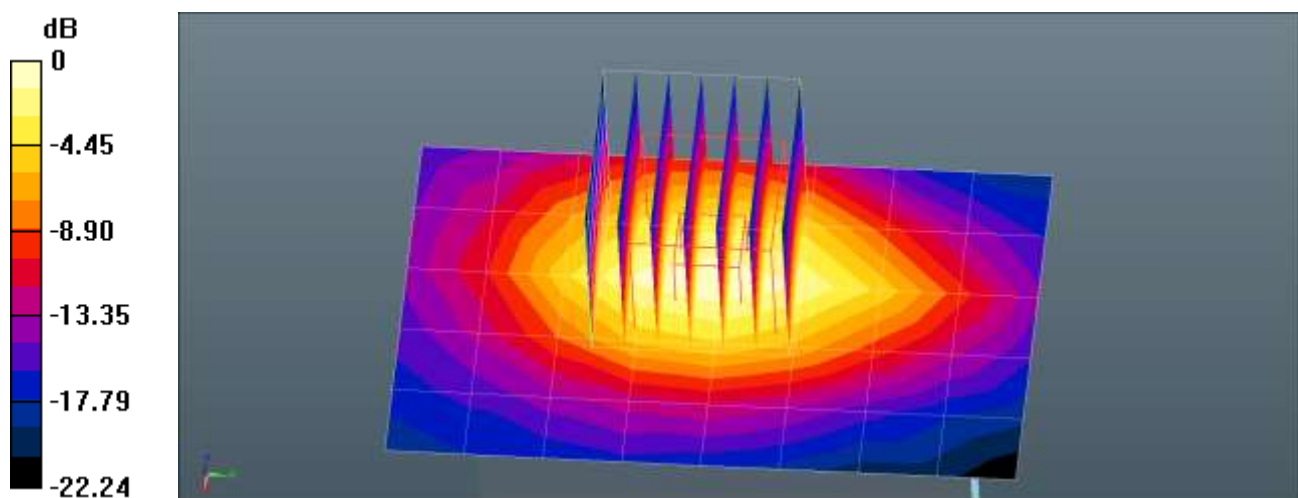
- Probe: EX3DV4 - SN7702; ConvF(8.49, 8.49, 8.49) @ 2310 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n30 Body Bottom DFT-s QPSK 10MHz 25RB 27offset 462000ch/Area Scan (6x9x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm
Maximum value of SAR (measured) = 1.25 W/kg

NR Band n30 Body Bottom DFT-s QPSK 10MHz 25RB 27offset 462000ch/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 23.56 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.377 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.1°C
Test Date: 04/25/2022
Plot No.: 102

Communication System: UID 0, NR Band n41 (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2592.99$ MHz; $\sigma = 1.883$ S/m; $\epsilon_r = 38.784$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

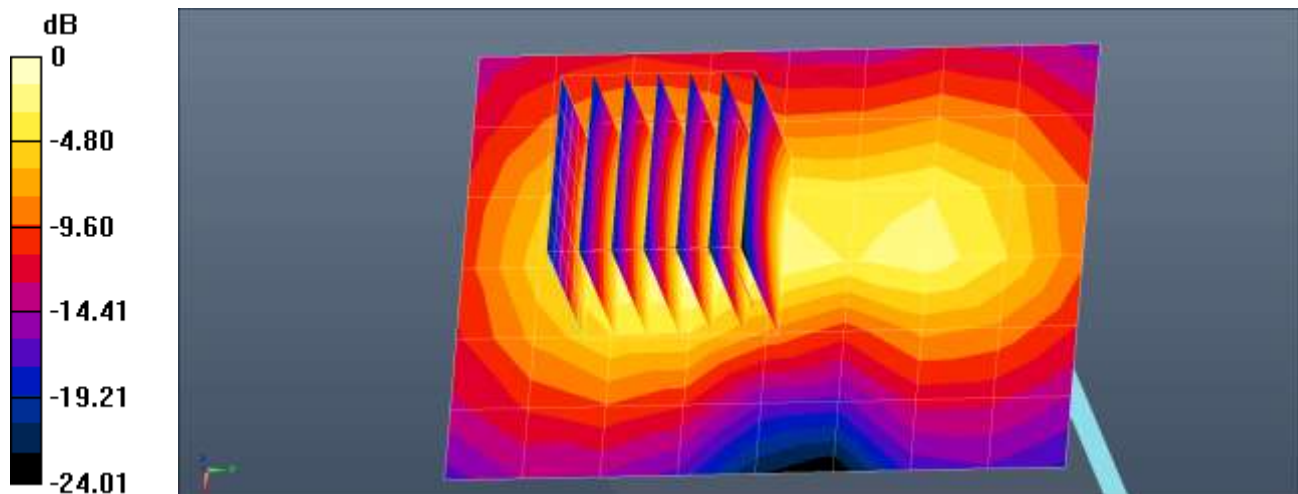
- Probe: EX3DV4 - SN7702; ConvF(7.93, 7.93, 7.93) @ 2592.99 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n41 Body Bottom DFT-s QPSK 100MHz 1RB 271offset 518598ch/Area Scan (7x9x1):

Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.683 W/kg

NR Band n41 Body Bottom DFT-s QPSK 100MHz 1RB 271offset 518598ch/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.73 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.898 W/kg
SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.713 W/kg



0 dB = 0.683 W/kg = -1.66 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8°C
Ambient Temperature: 21.0°C
Test Date: 04/22/2022
Plot No.: 103

Communication System: UID 0, NR Band n66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 41.592$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(8.12, 8.12, 8.12) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n66 Body Bottom DFT-S QPSK 40MHz 1RB 1offset 349000ch/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.29 W/kg

NR Band n66 Body Bottom DFT-S QPSK 40MHz 1RB 1offset 349000ch/Zoom Scan (5x5x7)/Cube 0:

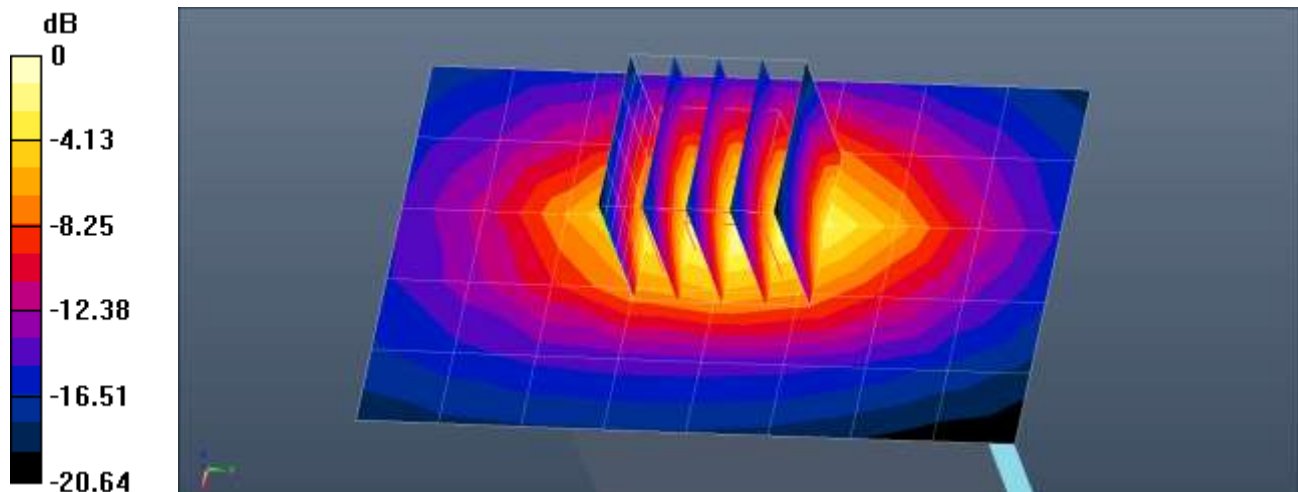
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.24 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.493 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.8°C
Ambient Temperature: 22.0°C
Test Date: 04/21/2022
Plot No.: 104

Communication System: UID 0, NR n71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 44.156$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

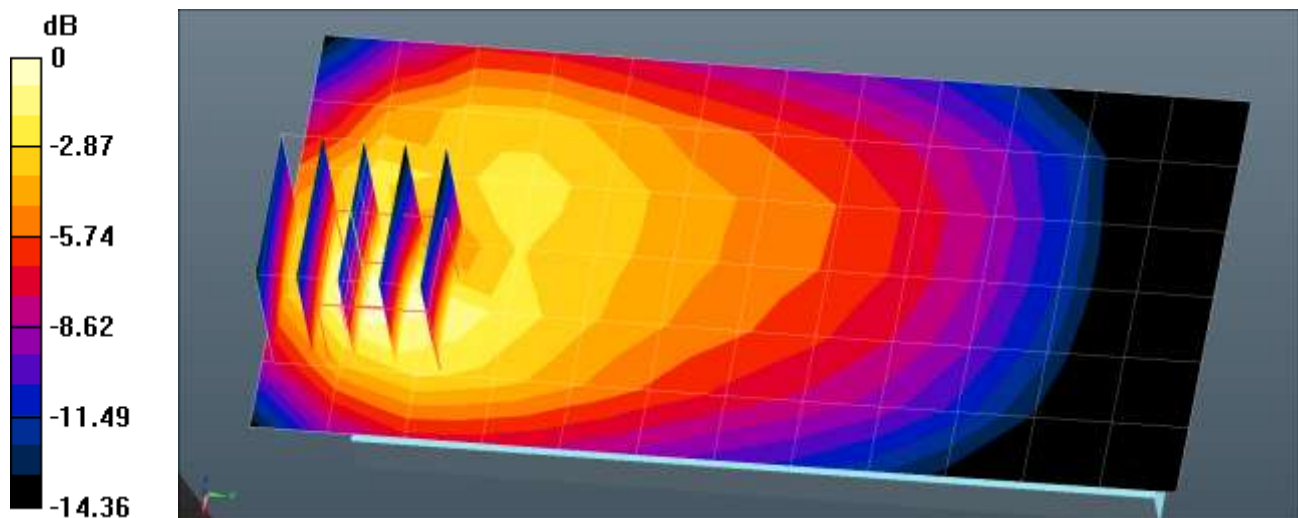
- Probe: EX3DV4 - SN3972; ConvF(9.81, 9.81, 9.81) @ 680.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2021-06-02
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 71 Body Rear DFT-s QPSK 20MHz 50RB 28offset 136100ch/Area Scan (7x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.375 W/kg

NR Band 71 Body Rear DFT-s QPSK 20MHz 50RB 28offset 136100ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.93 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.482 W/kg
SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.141 W/kg
Maximum value of SAR (measured) = 0.387 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.6°C
Ambient Temperature: 19.6°C
Test Date: 04/21/2022
Plot No.: 105

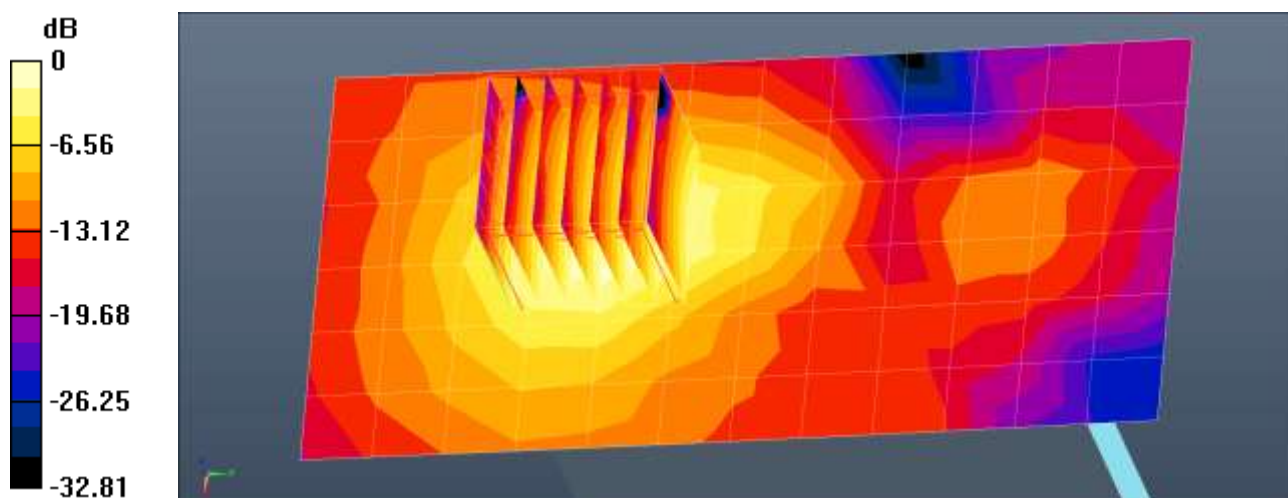
Communication System: UID 0, NR Band 77 (0); Frequency: 3930 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3930$ MHz; $\sigma = 3.297$ S/m; $\epsilon_r = 36.419$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(6.75, 6.75, 6.75) @ 3930 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Body Top DFT-s QPSK 100MHz 1RB 1offset 662000ch/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.556 W/kg

NR Band n77 Body Top DFT-s QPSK 100MHz 1RB 1offset 662000ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 6.760 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.864 W/kg
SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.111 W/kg
Maximum value of SAR (measured) = 0.620 W/kg



0 dB = 0.556 W/kg = -2.55 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 18.7°C
Ambient Temperature: 18.7°C
Test Date: 04/28/2022
Plot No.: 106

Communication System: UID 0, NR Band 77 (0); Frequency: 3500.1 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.1$ MHz; $\sigma = 2.928$ S/m; $\epsilon_r = 37.154$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

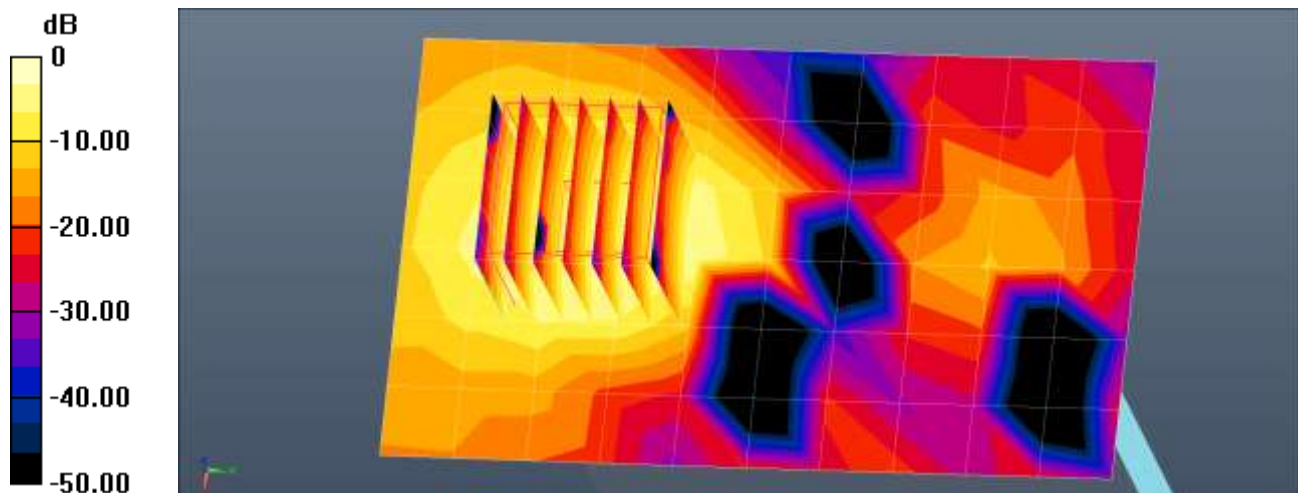
- Probe: EX3DV4 - SN7702; ConvF(7.25, 7.25, 7.25) @ 3500.1 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Body Top DFT-s QPSK 100MHz 1RB 1Offset 633334ch/Area Scan (7x11x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.629 W/kg

NR Band n77 Body Top DFT-s QPSK 100MHz 1RB 1Offset 633334ch/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.654 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.00 W/kg
SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.125 W/kg
Maximum value of SAR (measured) = 0.707 W/kg



0 dB = 0.629 W/kg = -2.02 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 20.0°C
Test Date: 05/03/2022
Plot No.: 107

Communication System: UID 0, NR n77 Duty100% (0); Frequency: 3930 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 3930$ MHz; $\sigma = 3.267$ S/m; $\epsilon_r = 36.13$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(6.7, 6.7, 6.7) @ 3930 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Body Rear DFT-S QPSK 100MHz 270RB 0offset 662000ch/Area Scan (10x16x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.263 W/kg

NR Band n77 Body Rear DFT-S QPSK 100MHz 270RB 0offset 662000ch/Zoom Scan (7x7x8)/Cube 0:

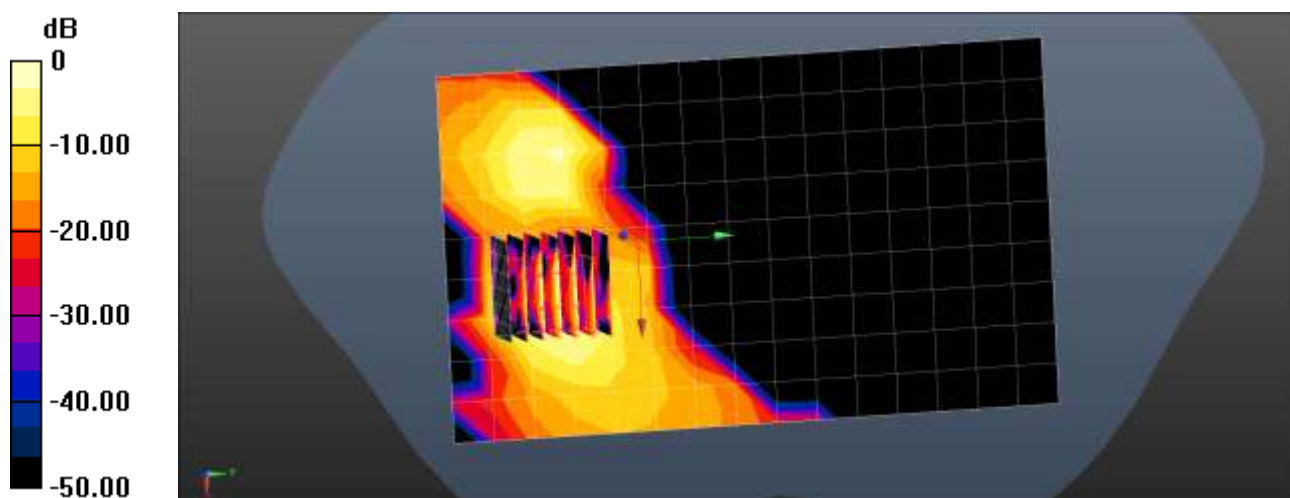
Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

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

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.041 W/kg

Maximum value of SAR (measured) = 0.369 W/kg



0 dB = 0.263 W/kg = -5.80 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 20.0°C
Test Date: 05/03/2022
Plot No.: 108

Communication System: UID 0, NR n77 Duty100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.931$ S/m; $\epsilon_r = 36.479$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.25, 7.25, 7.25) @ 3500.01 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Body Rear DFT-S QPSK 100MHz 270RB 0offset 633334ch/Area Scan (10x16x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.135 W/kg

NR Band n77 Body Rear DFT-S QPSK 100MHz 270RB 0offset 633334ch/Zoom Scan (7x7x8)/Cube 0:

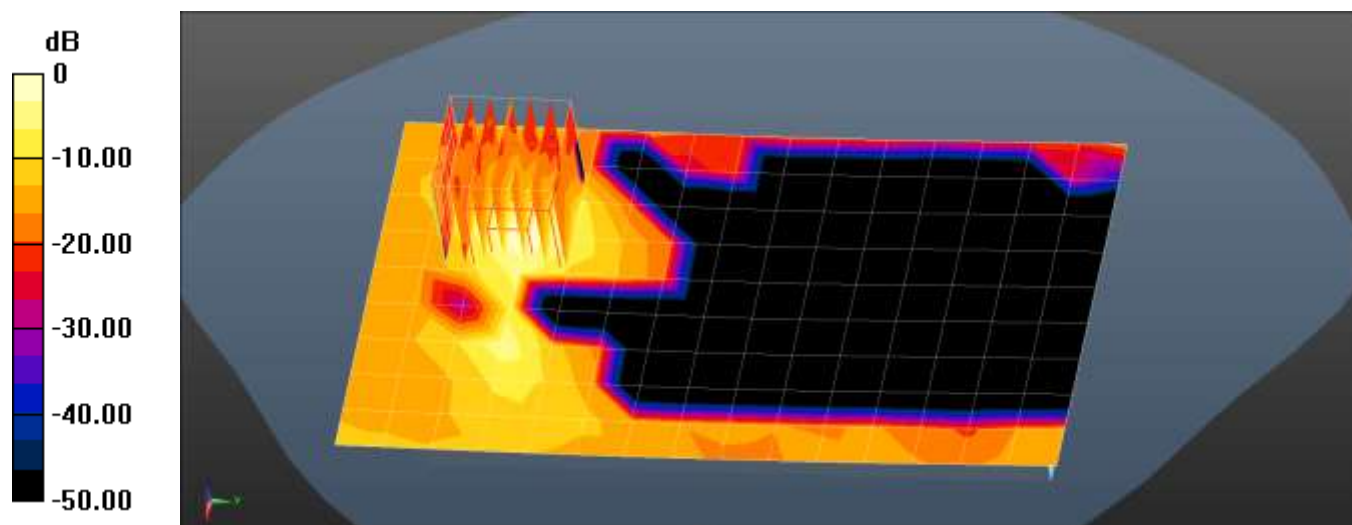
Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 2.256 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.151 W/kg



0 dB = 1.25 W/kg = 0.95 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 05/04/2022
Plot No.: 109

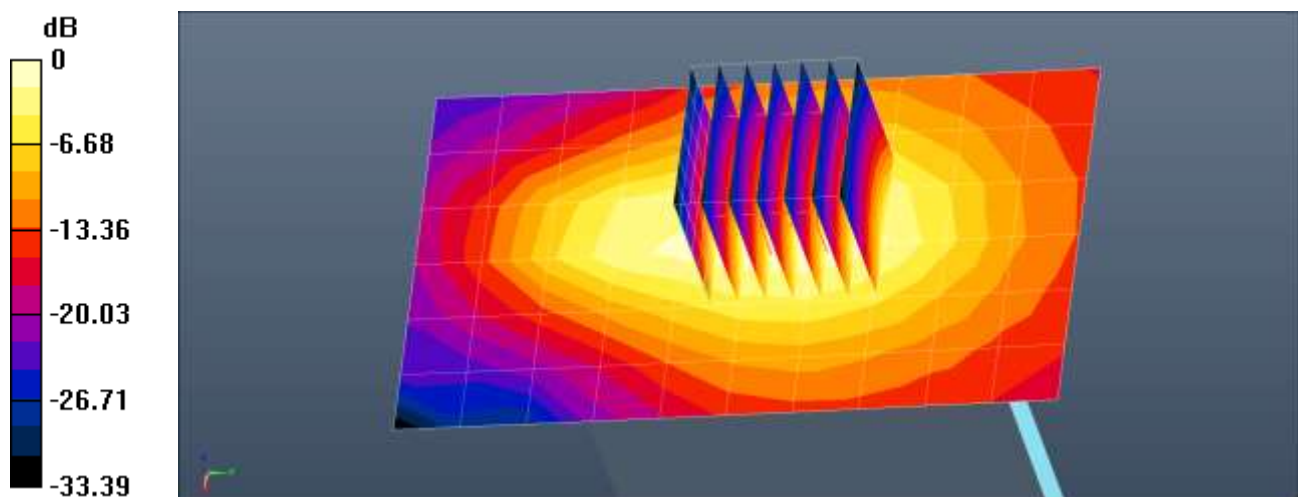
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.27$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2412 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

802.11b Body Top 1Mbps 1ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.25 W/kg

802.11b Body Top 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.47 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.64 W/kg
SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.412 W/kg
Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.25 W/kg = 0.95 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.1°C
Ambient Temperature: 21.3°C
Test Date: 05/04/2022
Plot No.: 110

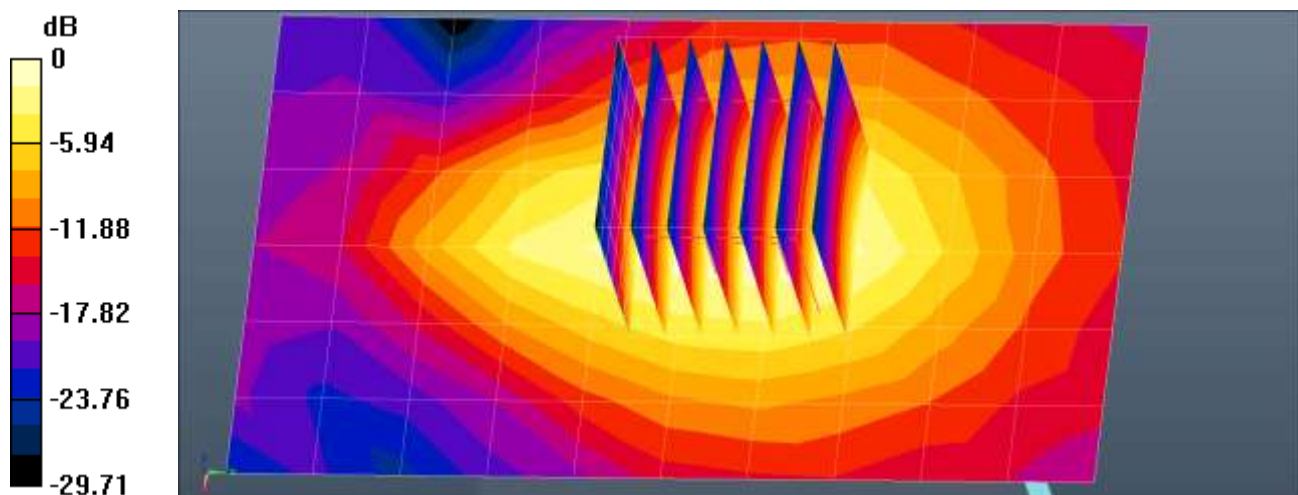
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

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

802.11b Body Top 1Mbps 6ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.588 W/kg

802.11b Body Top 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.42 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.736 W/kg
SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.178 W/kg
Maximum value of SAR (measured) = 0.590 W/kg



0 dB = 0.588 W/kg = -2.31 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.3°C
Test Date: 05/10/2022
Plot No.: 111

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.258$ S/m; $\epsilon_r = 35.517$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.09, 5.09, 5.09) @ 5825 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

802.11a Body Left 6Mbps 165ch/Area Scan (8x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.17 W/kg

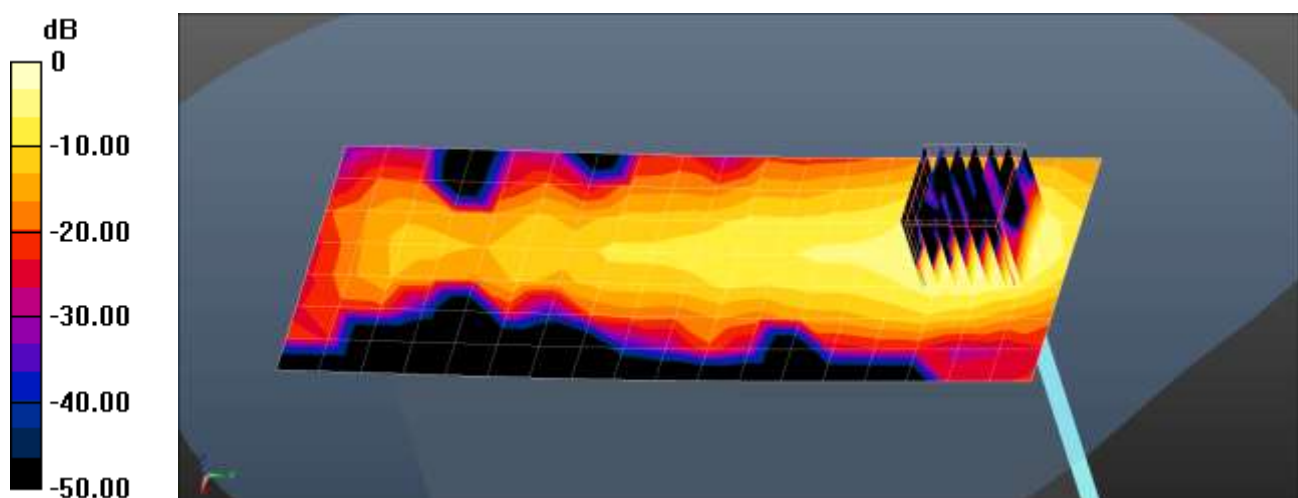
802.11a Body Left 6Mbps 165ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.555 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.67 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.3°C
Test Date: 05/10/2022
Plot No.: 112

Communication System: UID 0, WiFi5GHz ac80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.292$ S/m; $\epsilon_r = 35.478$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.09, 5.09, 5.09) @ 5775 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

802.11ac80 Body Rear MCS0 155ch/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.215 W/kg

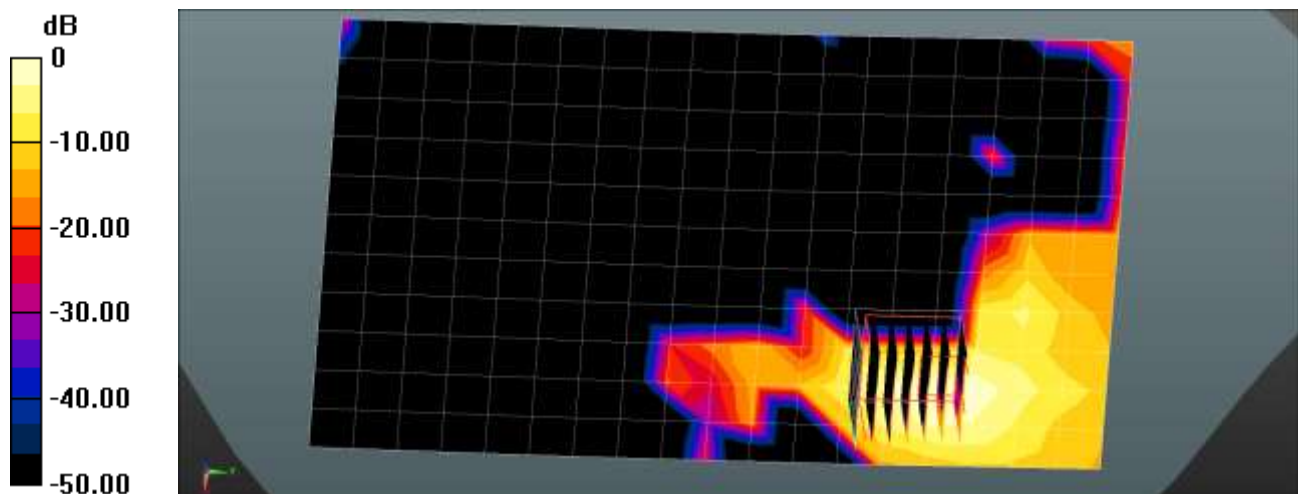
802.11ac80 Body Rear MCS0 155ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

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

Peak SAR (extrapolated) = 0.558 W/kg

SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.016 W/kg

Maximum value of SAR (measured) = 0.207 W/kg



0 dB = 0.215 W/kg = -6.68 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.8°C
Ambient Temperature: 19.8°C
Test Date: 04/22/2022
Plot No.: 113

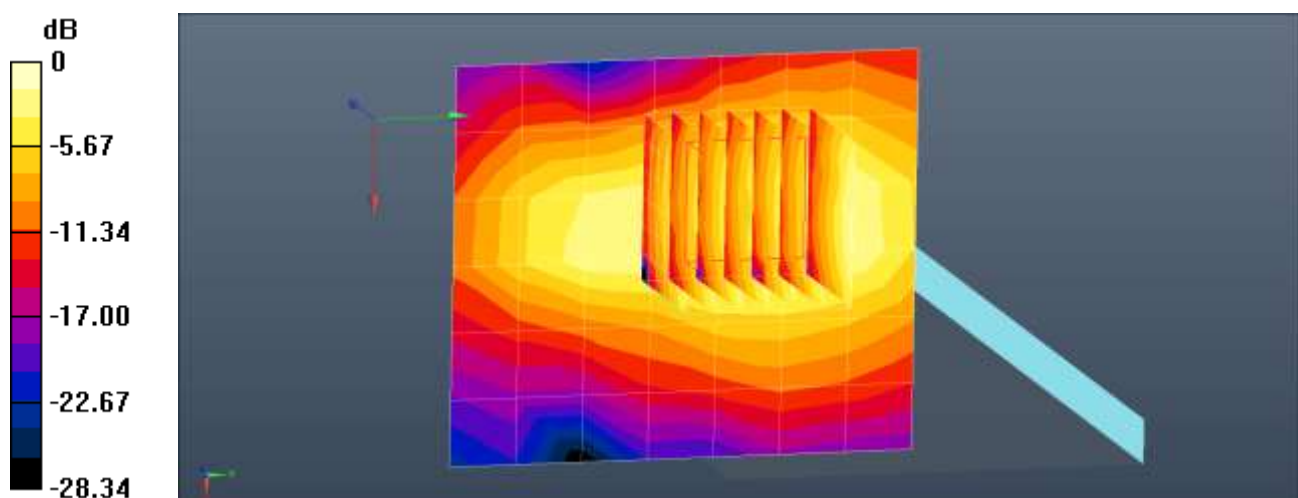
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302
Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 39.232$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2441 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Bluetooth Body Top DH5 39ch/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.193 W/kg

Bluetooth Body Top DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.864 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.290 W/kg
SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.065 W/kg
Maximum value of SAR (measured) = 0.232 W/kg



0 dB = 0.193 W/kg = -7.16 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 18.6°C
Ambient Temperature: 18.7°C
Test Date: 04/27/2022
Plot No.: 114

Communication System: UID 0, CDMA BC1(1900MHz) (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.411 \text{ S/m}$; $\epsilon_r = 40.327$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

CDMA BC1 Body Bottom 600ch EVDO Rev.0 Grip 0mm/Area Scan (6x9x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.41 W/kg

CDMA BC1 Body Bottom 600ch EVDO Rev.0 Grip 0mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

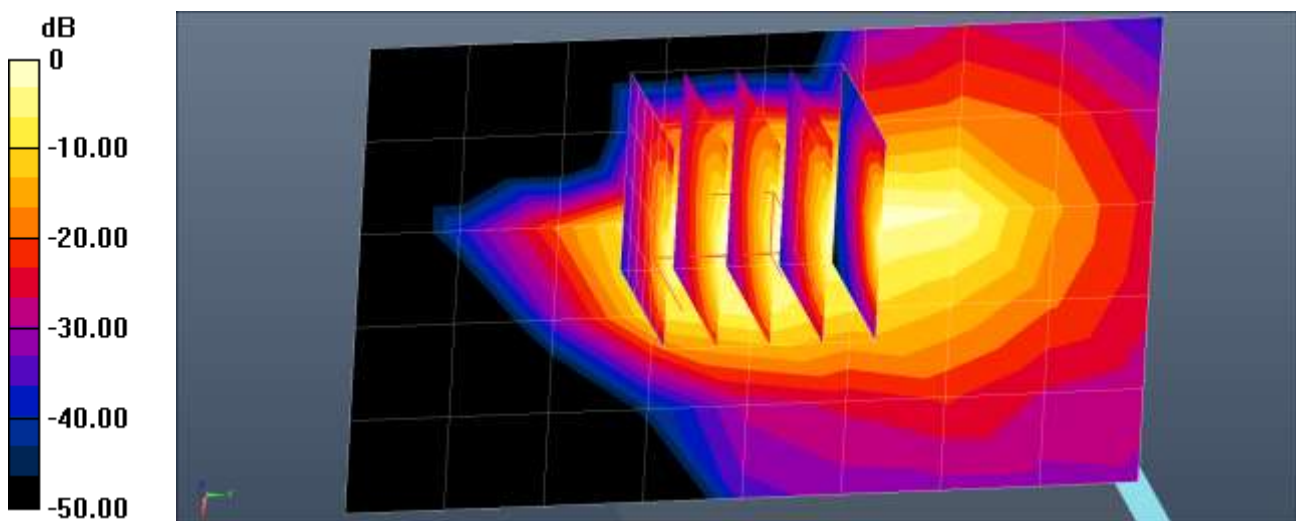
$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.64 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 4.77 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 8.79 W/kg



0 dB = 6.41 W/kg = 8.07 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.3°C
Ambient Temperature: 20.3°C
Test Date: 04/18/2022
Plot No.: 115

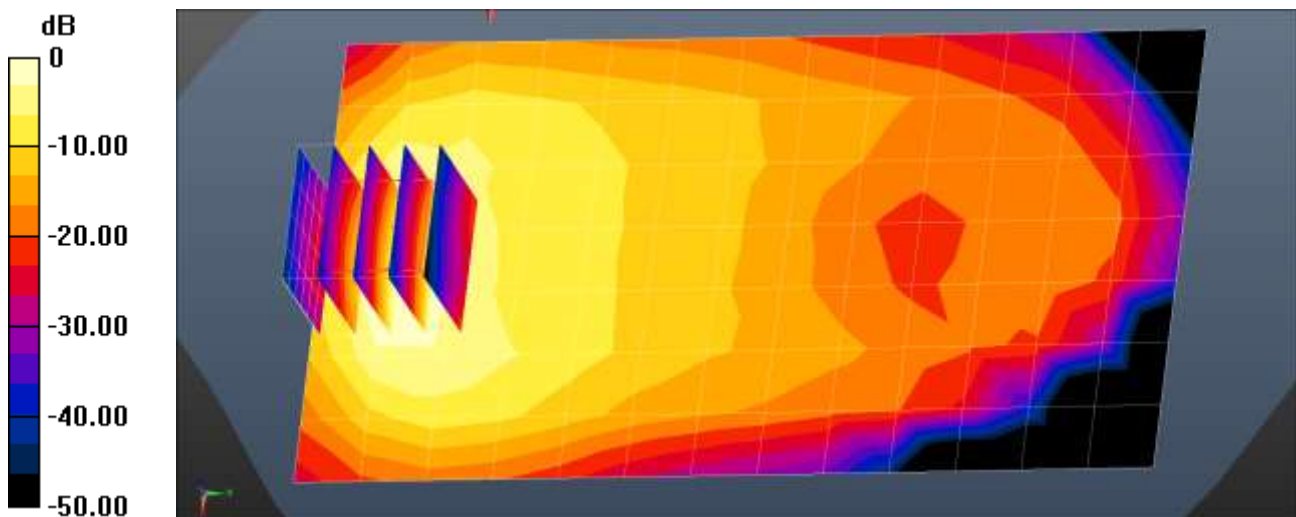
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.333$ S/m; $\epsilon_r = 41.166$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1732.4 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 4 Phablet Front 1412ch Max 6mm/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.04 W/kg

UMTS Band 4 Phablet Front 1412ch Max 6mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.075 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 5.93 W/kg
SAR(1 g) = 2.95 W/kg; SAR(10 g) = 1.43 W/kg
Maximum value of SAR (measured) = 4.36 W/kg



0 dB = 3.04 W/kg = 4.83 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.5°C
Ambient Temperature: 19.5°C
Test Date: 04/15/2022
Plot No.: 116

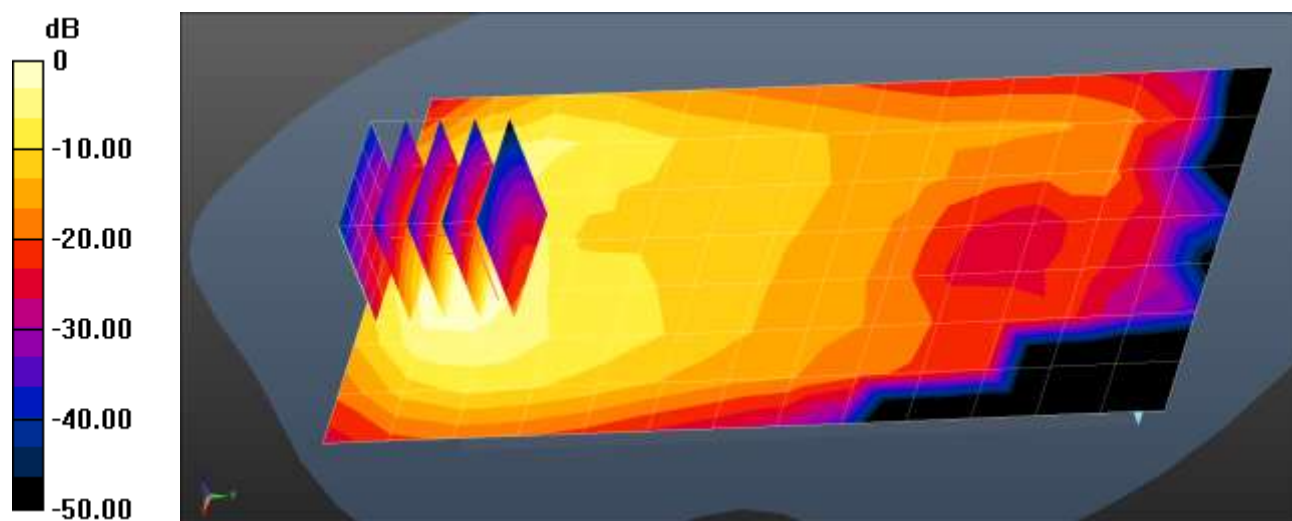
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 40.764$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1880 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 2 Phablet Front 9400ch Max 6mm/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.10 W/kg

UMTS Band 2 Phablet Front 9400ch Max 6mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.752 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 5.77 W/kg
SAR(1 g) = 2.94 W/kg; SAR(10 g) = 1.43 W/kg
Maximum value of SAR (measured) = 4.64 W/kg



0 dB = 3.10 W/kg = 4.92 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 23.3°C
Ambient Temperature: 23.4°C
Test Date: 04/19/2022
Plot No.: 117

Measurement Report for Device, EDGE BOTTOM, Band 7, E-UTRA/FDD, LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) AntennaCfg:SISO, Channel 20850 (2510.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	Band 7, E-UTRA/FDD	LTE-FDD, 10100-CAE	2510.0, 20850	7.57	1.89	39.3

Hardware Setup

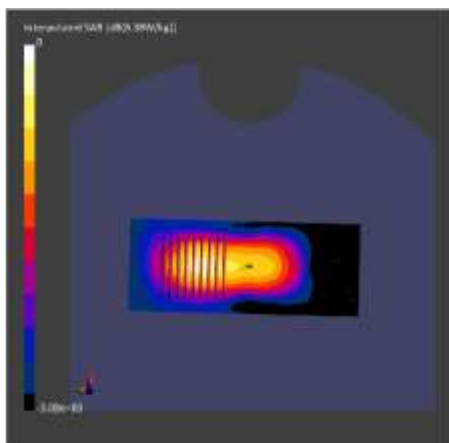
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	5.05	5.27
psSAR10g [W/Kg]	1.67	1.65
Power Drift [dB]	0.01	0.02



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.7°C
Ambient Temperature: 21.8°C
Test Date: 04/22/2022
Plot No.: 118

Communication System: UID 0, LTE Band 25 (0); Frequency: 1905 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1905$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 40.856$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1905 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 25 Phablet Bottom QPSK 20MHz 50RB 49offset 26590ch Grip 0mm/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.91 W/kg

LTE Band 25 Phablet Bottom QPSK 20MHz 50RB 49offset 26590ch Grip 0mm/Zoom Scan

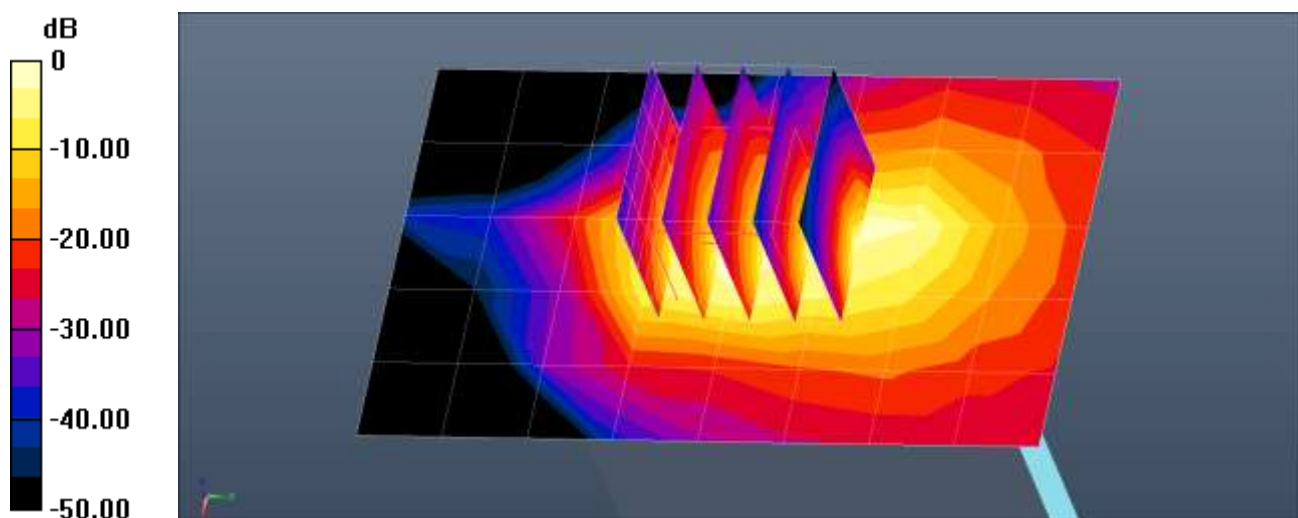
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 66.62 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 3.44 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 9.27 W/kg



0 dB = 3.91 W/kg = 5.92 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 22.0°C
Ambient Temperature: 22.0°C
Test Date: 04/20/2022
Plot No.: 119

Measurement Report for Device, EDGE BOTTOM, Band 30, E-UTRA/FDD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) RBPosition:Low AntennaCfg:SISO, Channel 27710 (2310.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	Band 30, E-UTRA/FDD	LTE-FDD, 10154-CAG	2310.0, 27710	7.81	1.77	38.6

Hardware Setup

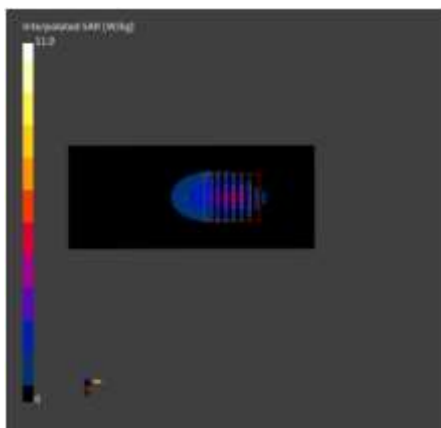
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	3.6 x 3.6 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.29	3.08
psSAR10g [W/Kg]	1.35	1.11
Power Drift [dB]	0.02	-0.04



Test Laboratory: HCT CO., LTD

EUT Type: Mobile Phone
Liquid Temperature: 21.3°C
Ambient Temperature: 21.4°C
Test Date: 04/21/2022
Plot No.: 120

Measurement Report for Device, BACK, Band 41, E-UTRA/TDD, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 39750 (2506.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 41, E-UTRA/TDD	LTE-TDD, 10151-CAG	2506.0, 39750	7.57	1.87	38.4

Hardware Setup

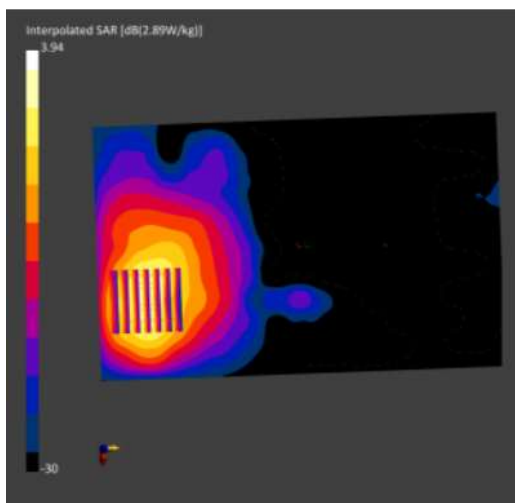
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.26	2.47
psSAR10g [W/Kg]	1.06	1.00
Power Drift [dB]	0.13	-0.10



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1°C
Ambient Temperature: 19.1°C
Test Date: 04/20/2022
Plot No.: 121

Communication System: UID 0, LTE 66 (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1720$ MHz; $\sigma = 1.321$ S/m; $\epsilon_r = 41.216$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

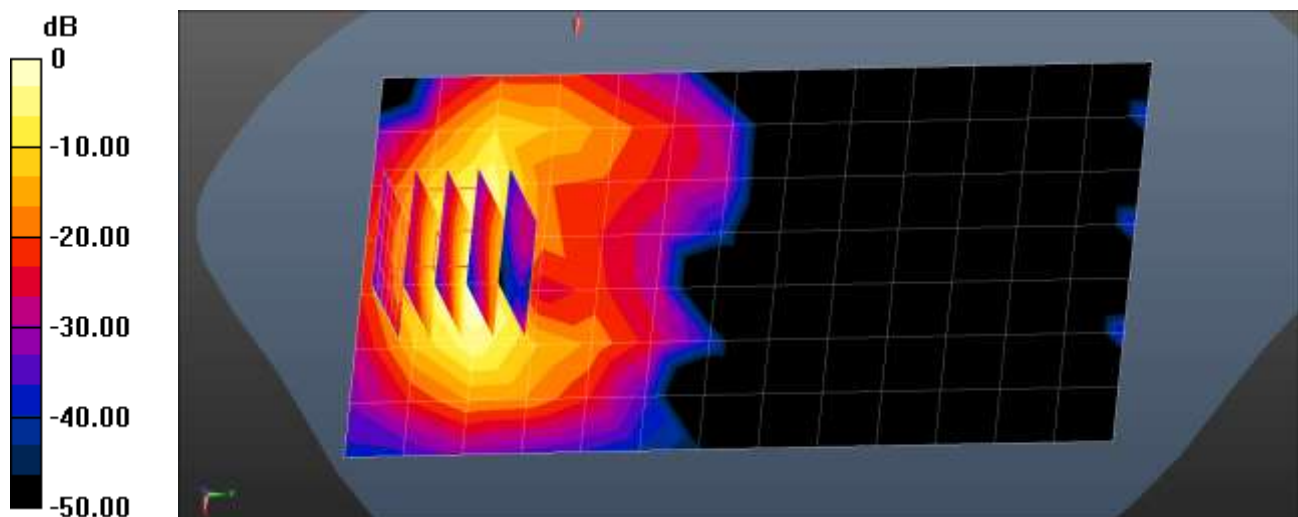
- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1720 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 66 Phablet Front QPSK 20MHz 50RB 0offset 132072ch Grip 0mm/Area Scan (8x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 7.31 W/kg

LTE Band 66 Phablet Front QPSK 20MHz 50RB 0offset 132072ch Grip 0mm/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 10.8 W/kg
SAR(1 g) = 4.29 W/kg; SAR(10 g) = 1.77 W/kg
Maximum value of SAR (measured) = 8.58 W/kg



0 dB = 7.31 W/kg = 8.64 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8°C
Ambient Temperature: 20.9°C
Test Date: 04/29/2022
Plot No.: 122

Communication System: UID 0, n25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 41.367$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(8.08, 8.08, 8.08) @ 1882.5 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

NR Band 25 Phablet Front DFT-s QPSK 40MHz 108RB 54offset 376500ch Max 6mm/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.35 W/kg

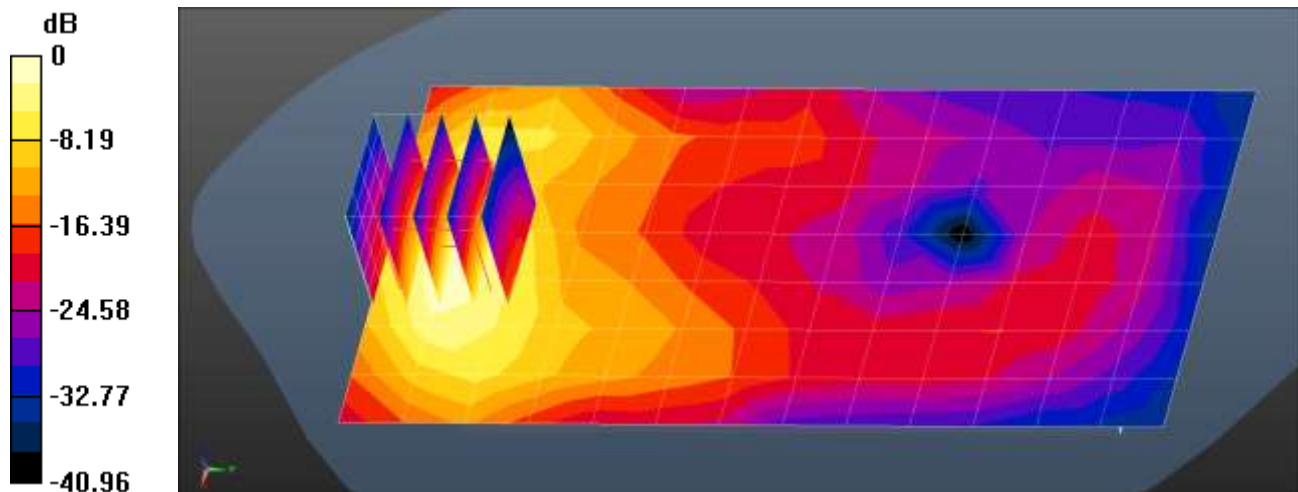
NR Band 25 Phablet Front DFT-s QPSK 40MHz 108RB 54offset 376500ch Max 6mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.061 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 4.83 W/kg

SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.24 W/kg

Maximum value of SAR (measured) = 3.91 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.9°C
Ambient Temperature: 21.9°C
Test Date: 04/27/2022
Plot No.: 123

Measurement Report for Device, FRONT, Band n30, 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)
RBPosition:Mid AntennaCfg:SISO, Channel 462000 (2310.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 6.00	Band n30	5G NR FR1 FDD, 10929-AAB	2310.0, 462000	7.81	1.72	39.9

Hardware Setup

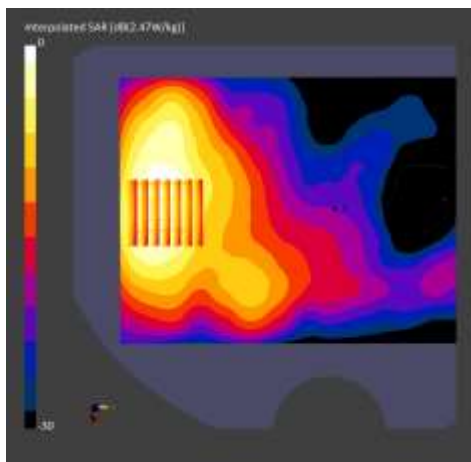
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.01	2.24
psSAR10g [W/Kg]	1.06	1.12
Power Drift [dB]	-0.07	-0.02



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.4°C
Ambient Temperature: 21.4°C
Test Date: 04/26/2022
Plot No.: 124

Measurement Report for Device, EDGE BOTTOM, Band n41, 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2593.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	156.0 x 75.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	Band n41	5G NR FR1 TDD, 10917-AAB	2593.0, 518598	7.57	1.97	38.2

Hardware Setup

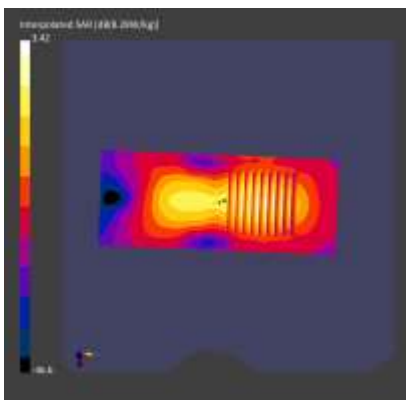
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	5.24	5.17
psSAR10g [W/Kg]	1.69	1.62
Power Drift [dB]	-0.01	0.05



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.4°C
Ambient Temperature: 19.5°C
Test Date: 04/25/2022
Plot No.: 125

Communication System: UID 0, n66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 40.886$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(8.12, 8.12, 8.12) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n66 Body Bottom Phablet DFT-S QPSK 40MHz 108RB 0offset 349000ch/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 9.64 W/kg

NR Band n66 Body Bottom Phablet DFT-S QPSK 40MHz 108RB 0offset 349000ch/Zoom Scan

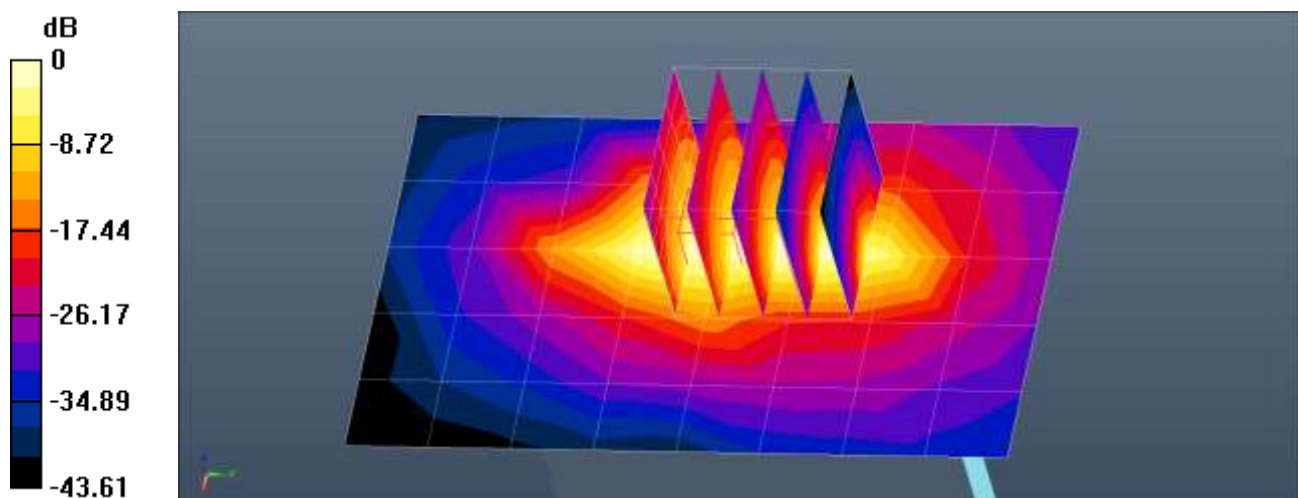
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 39.92 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 14.9 W/kg

SAR(1 g) = 4.8 W/kg; SAR(10 g) = 2.08 W/kg

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



0 dB = 9.64 W/kg = 9.84 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 18.9°C
Ambient Temperature: 19.0°C
Test Date: 04/25/2022
Plot No.: 126

Communication System: UID 0, NR Band 77 (0); Frequency: 3930 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3930$ MHz; $\sigma = 3.312$ S/m; $\epsilon_r = 36.343$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

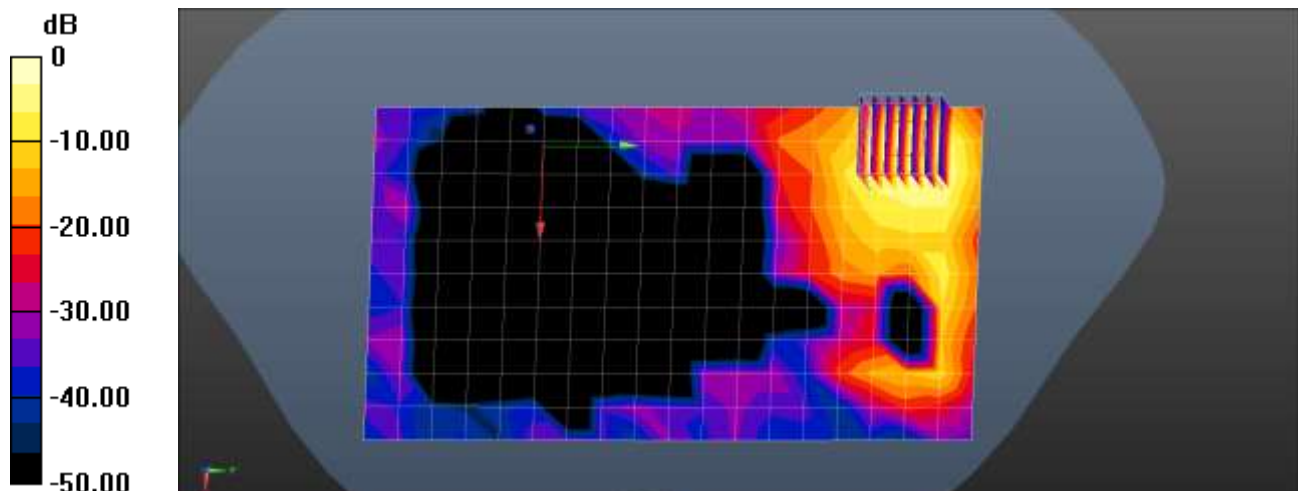
- Probe: EX3DV4 - SN7702; ConvF(6.75, 6.75, 6.75) @ 3930 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 Phablet Front DFT-s QPSK 100MHz 1RB 1offset 662000ch/Area Scan (11x19x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 9.25 W/kg

NR Band n77 Phablet Front DFT-s QPSK 100MHz 1RB 1offset 662000ch/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 4.01 W/kg; SAR(10 g) = 1.43 W/kg
Maximum value of SAR (measured) = 9.85 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.0°C
Ambient Temperature: 19.2°C
Test Date: 04/29/2022
Plot No.: 127

Communication System: UID 0, NR Band 77 (0); Frequency: 3500.1 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.1$ MHz; $\sigma = 2.928$ S/m; $\epsilon_r = 36.892$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

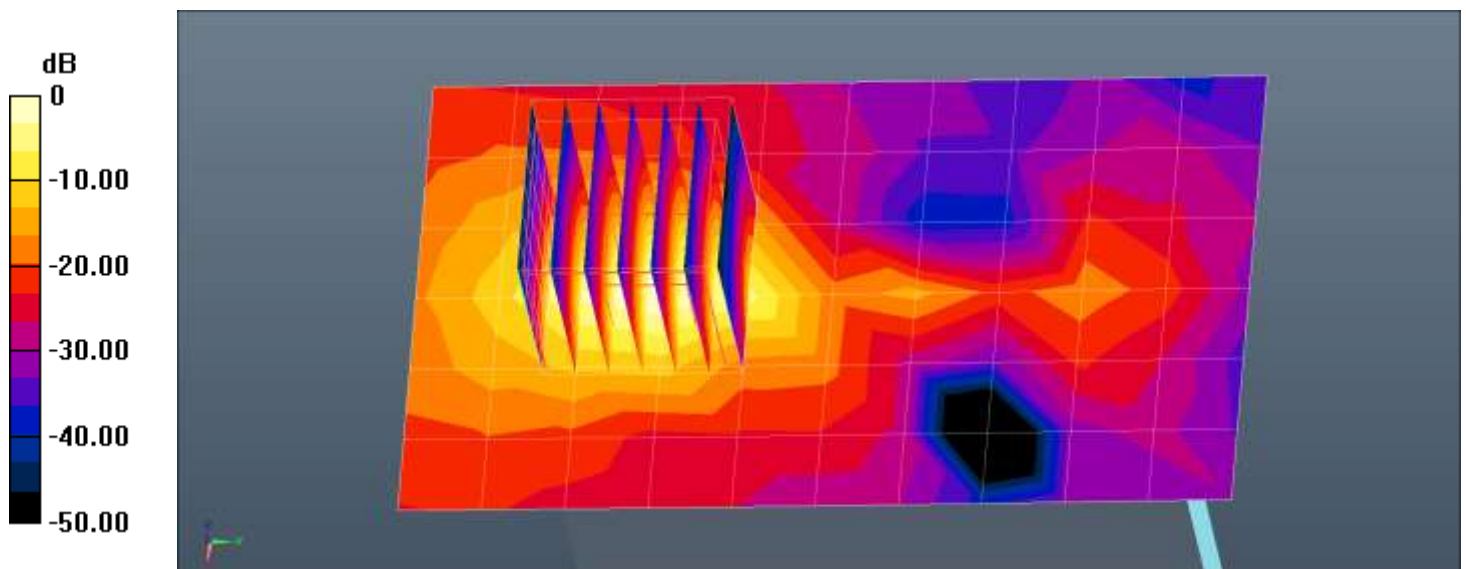
- Probe: EX3DV4 - SN7702; ConvF(7.25, 7.25, 7.25) @ 3500.1 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

NR Band n77 DoD Phablet Top DFT-s QPSK 100MHz 1RB 1Offset 633334ch/Area Scan (7x11x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.28 W/kg

NR Band n77 DoD Phablet Top DFT-s QPSK 100MHz 1RB 1Offset 633334ch/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.735 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 10.0 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 0.671 W/kg
Maximum value of SAR (measured) = 6.40 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.1°C
Test Date: 05/04/2022
Plot No.: 128

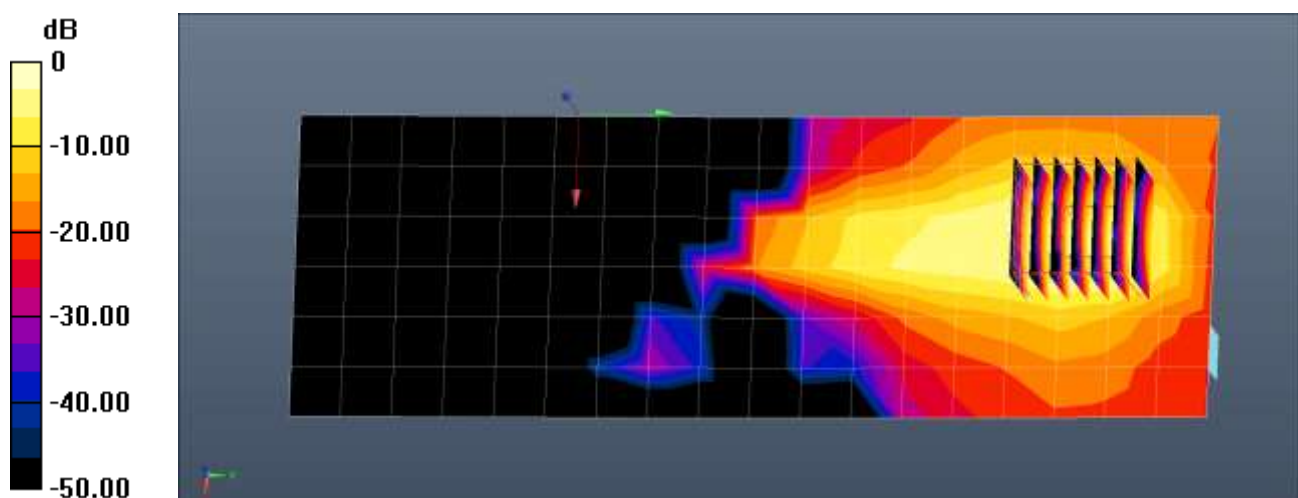
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5320 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.791 \text{ S/m}$; $\epsilon_r = 35.512$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.55, 5.55, 5.55) @ 5320 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

802.11a Body Left 6Mbps 64ch/Area Scan (7x19x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 5.61 W/kg

802.11a Body Left 6Mbps 64ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 5.840 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 31.7 W/kg
SAR(1 g) = 4.88 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 5.61 W/kg = 7.49 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0°C
Ambient Temperature: 20.1°C
Test Date: 05/04/2022
Plot No.: 129

Communication System: UID 0, WiFi5GHz ac80 (0); Frequency: 5290 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.728 \text{ S/m}$; $\epsilon_r = 35.47$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.55, 5.55, 5.55) @ 5290 MHz; Calibrated: 2021-11-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

802.11ac80 Body Left MCS0 58ch/Area Scan (7x19x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.34 W/kg

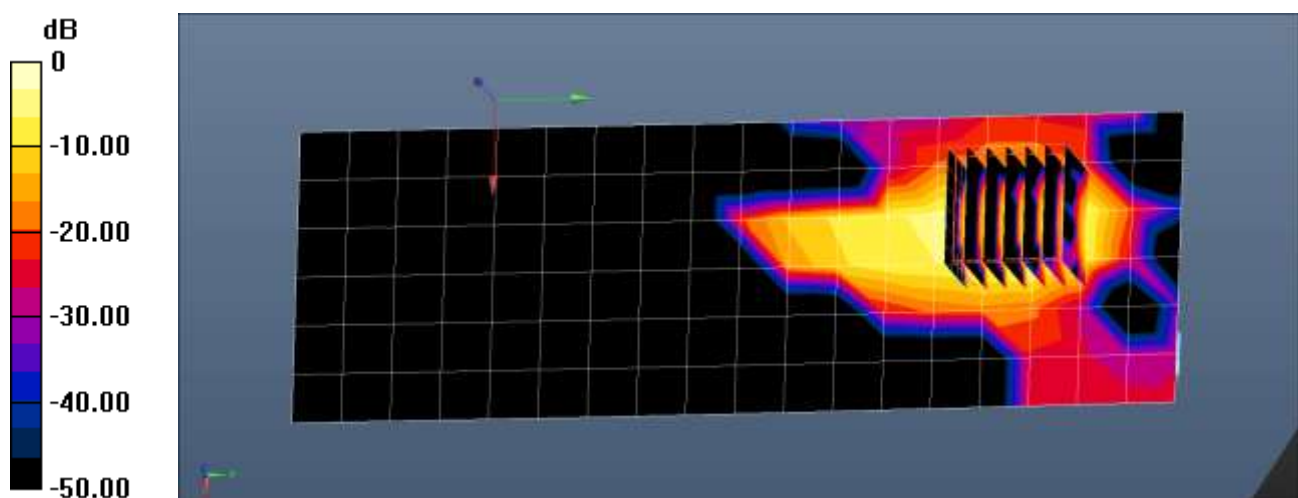
802.11ac80 Body Left MCS0 58ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

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

Peak SAR (extrapolated) = 6.19 W/kg

SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 1.34 W/kg = 1.29 dBW/kg

Appendix C. – Dipole Verification Plots

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.9°C
Test Date: 04/13/2022
Band: LTE Band 12

DUT: Dipole 750 MHz; Type: D750V3;

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.551$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 750 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.495 W/kg

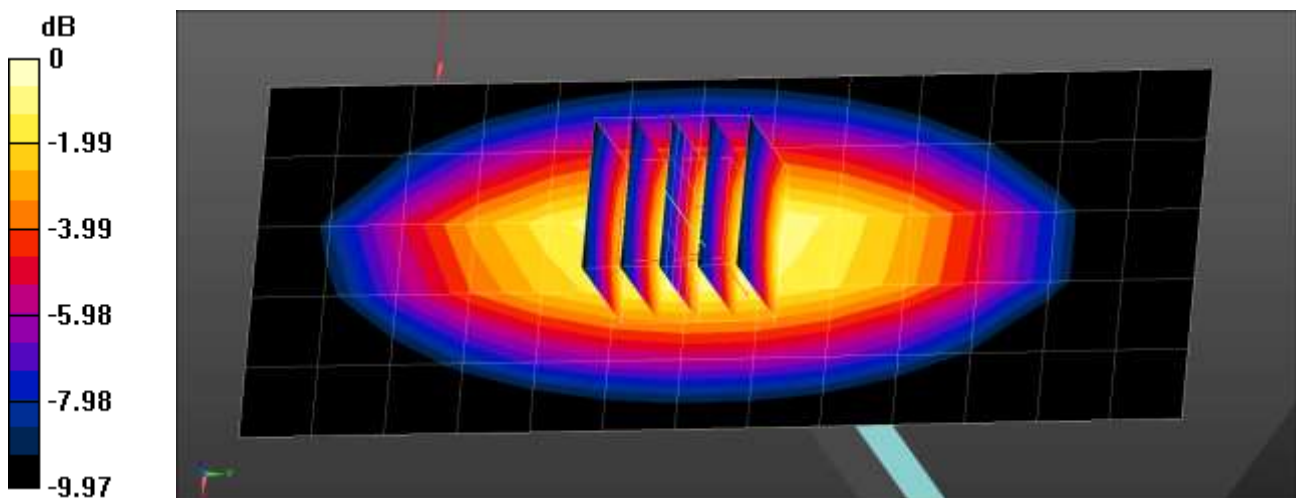
Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.41 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.606 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.549 W/kg



0dB = 0.549 W/kg = -2.60 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 04/12/2022
Band: LTE Band 71

DUT: Dipole 750 MHz; Type: D750V3;

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.567$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 750 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.498 W/kg

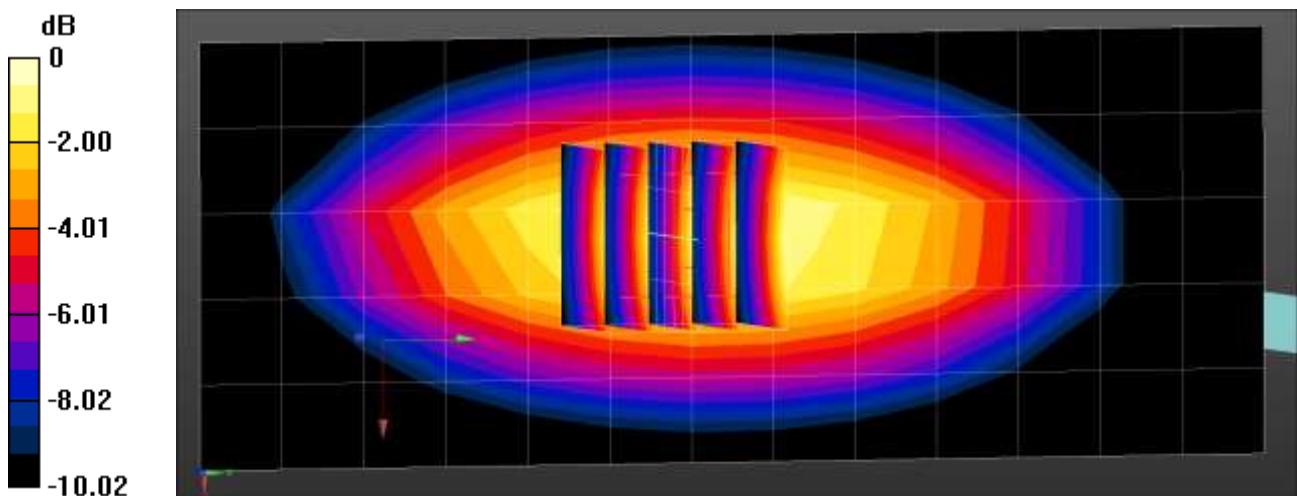
Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.43 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.1°C
Test Date: 04/14/2022
Band: LTE Band 13

DUT: Dipole 750 MHz; Type: D750V3;

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.884 \text{ S/m}$; $\epsilon_r = 42.516$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 750 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.499 W/kg

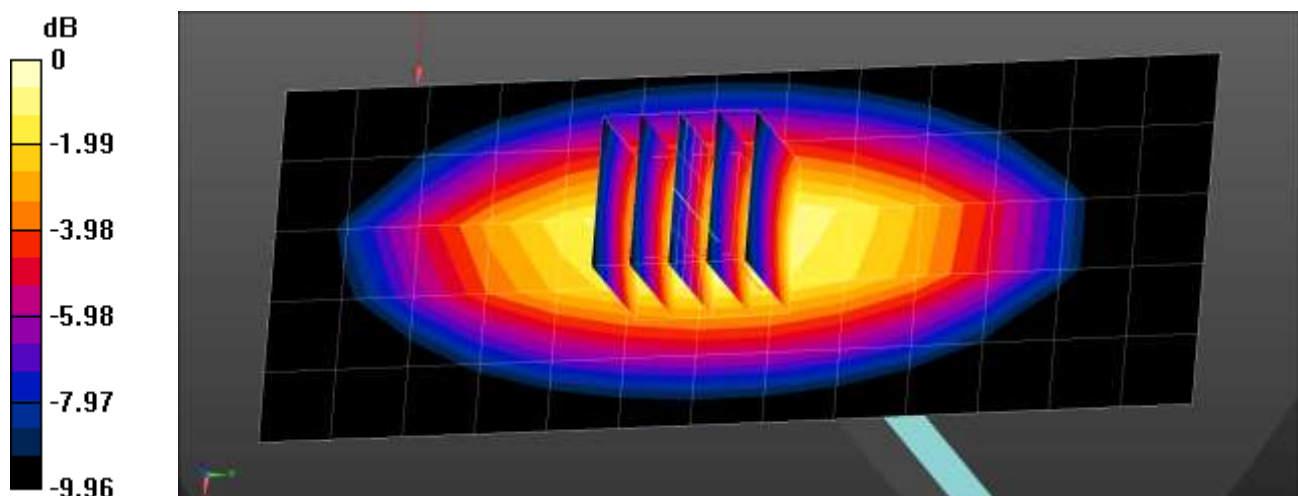
Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.32 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.608 W/kg

SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 0.549 W/kg



0 dB = 0.549 W/kg = -2.60 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.9 °C
Test Date: 04/15/2022
Band: LTE Band 14

DUT: Dipole 750 MHz; Type: D750V3;

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.885 \text{ S/m}$; $\epsilon_r = 42.623$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.57, 10.57, 10.57) @ 750 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.496 W/kg

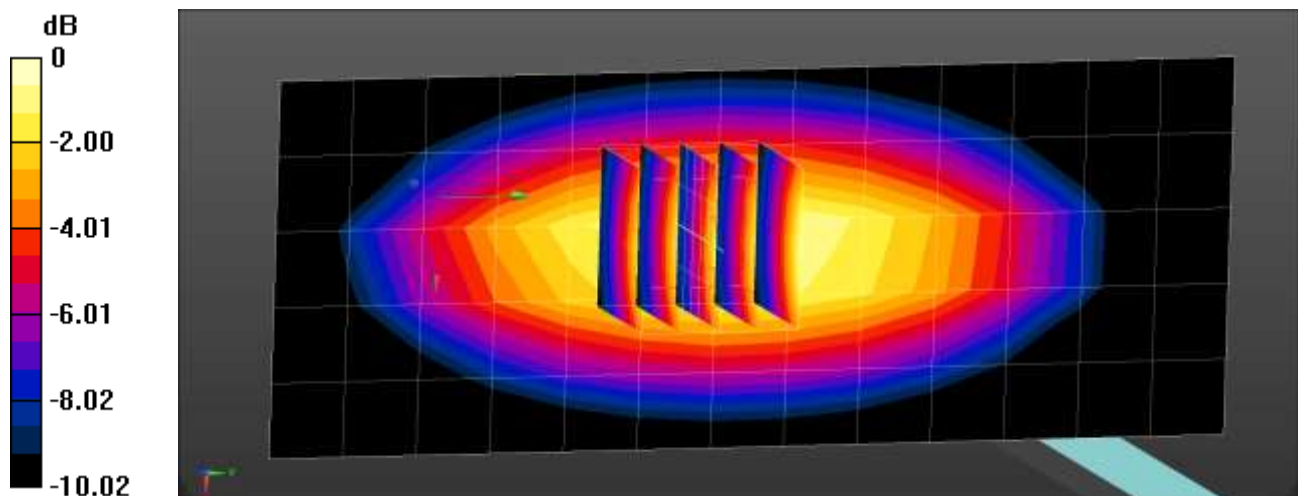
Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.26 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.608 W/kg

SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.283 W/kg

Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.9 °C
Test Date: 04/15/2022
Band: CDMA/EVDO BC0

DUT: Dipole 835 MHz D835V2; Type: D835V2;

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.934 \text{ S/m}$; $\epsilon_r = 41.946$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 835 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.616 W/kg

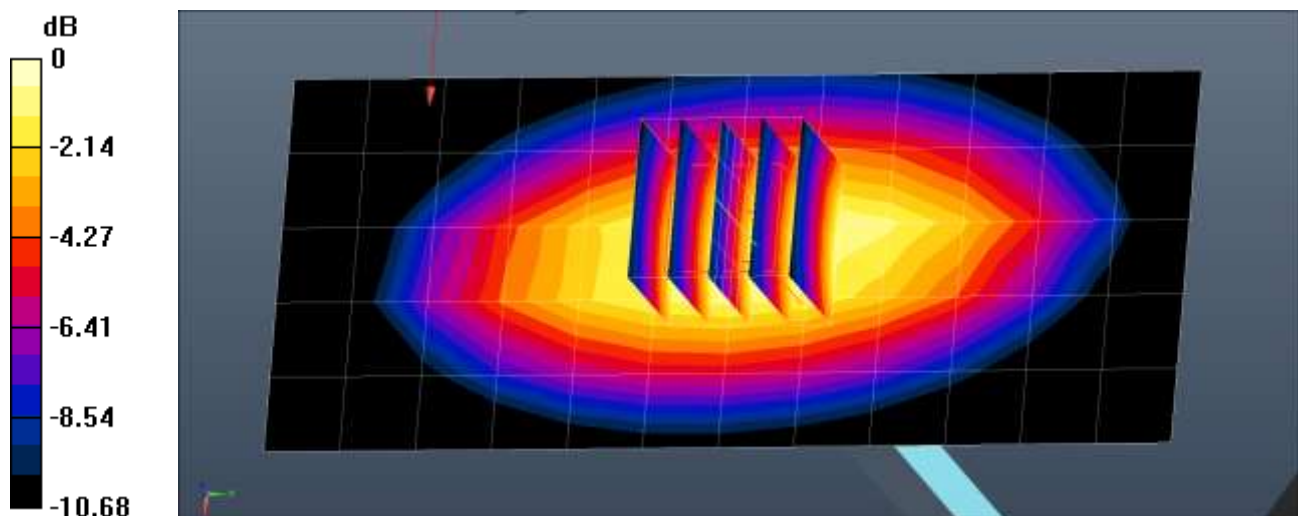
Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.01 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.770 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.677 W/kg



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

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.1 °C
Test Date: 04/18/2022
Band: CDMA/EVDO BC10

DUT: Dipole 835 MHz D835V2; Type: D835V2;

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 41.726$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(9.66, 9.66, 9.66) @ 835 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Right_20170913
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.619 W/kg

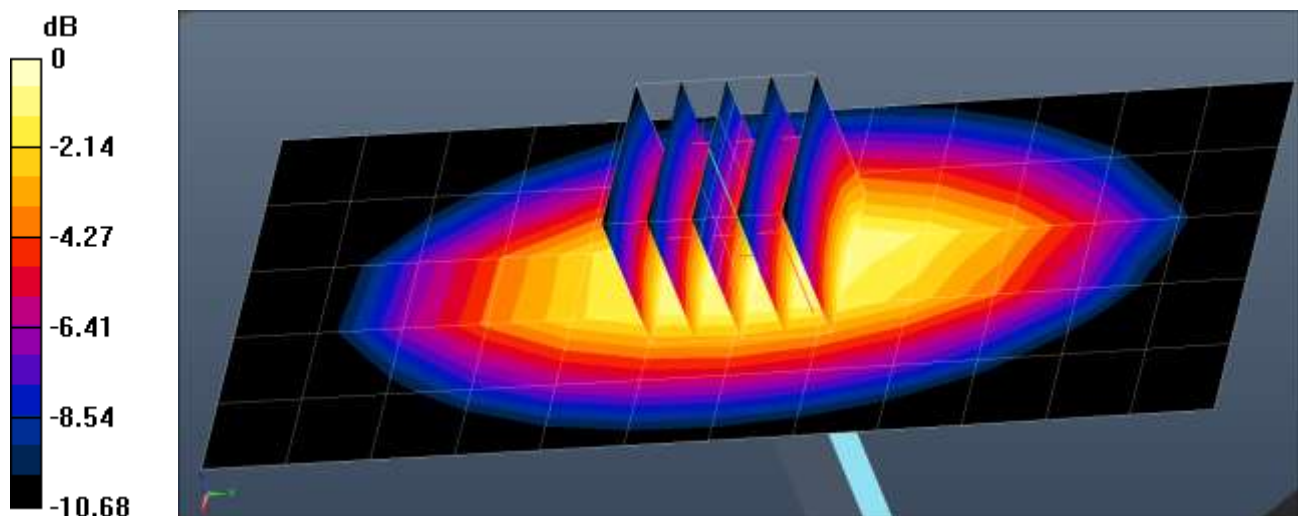
Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.40 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.778 W/kg

SAR(1 g) = 0.515 W/kg; SAR(10 g) = 0.338 W/kg

Maximum value of SAR (measured) = 0.690 W/kg



0 dB = 0.690 W/kg = -1.61 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.9 °C
Test Date: 04/14/2022
Band: GSM850

DUT: Dipole 835 MHz D835V2; Type: D835V2;

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 41.576$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/835MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.576 W/kg

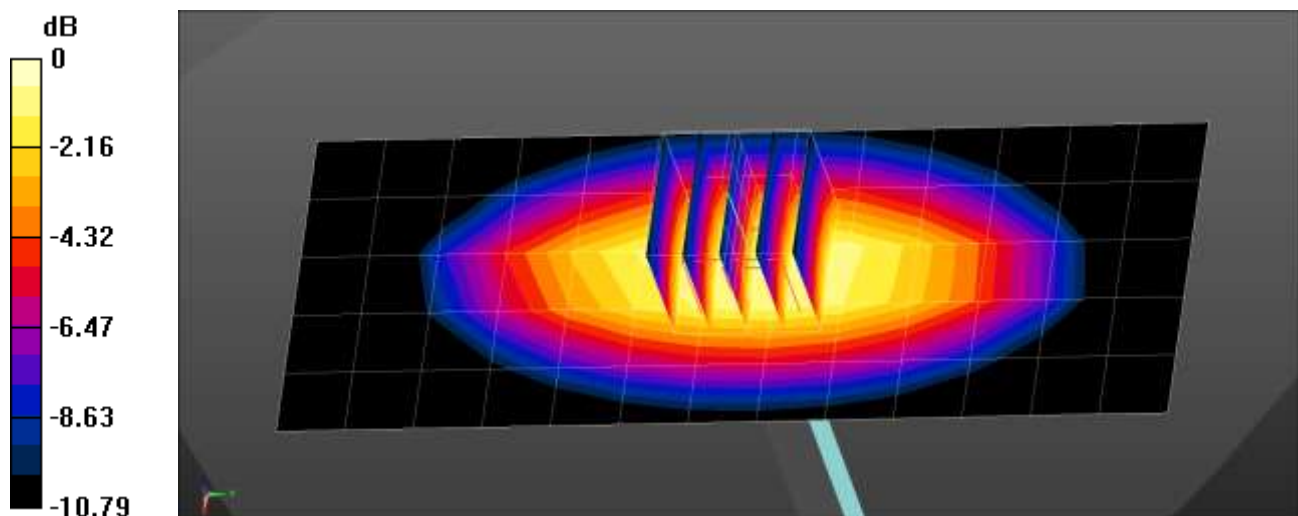
Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.50 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.653 W/kg



■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.6 °C
Test Date: 04/13/2022
Band: UMTS Band 5

DUT: Dipole 835 MHz D835V2; Type: D835V2;

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 41.604$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/835MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.575 W/kg

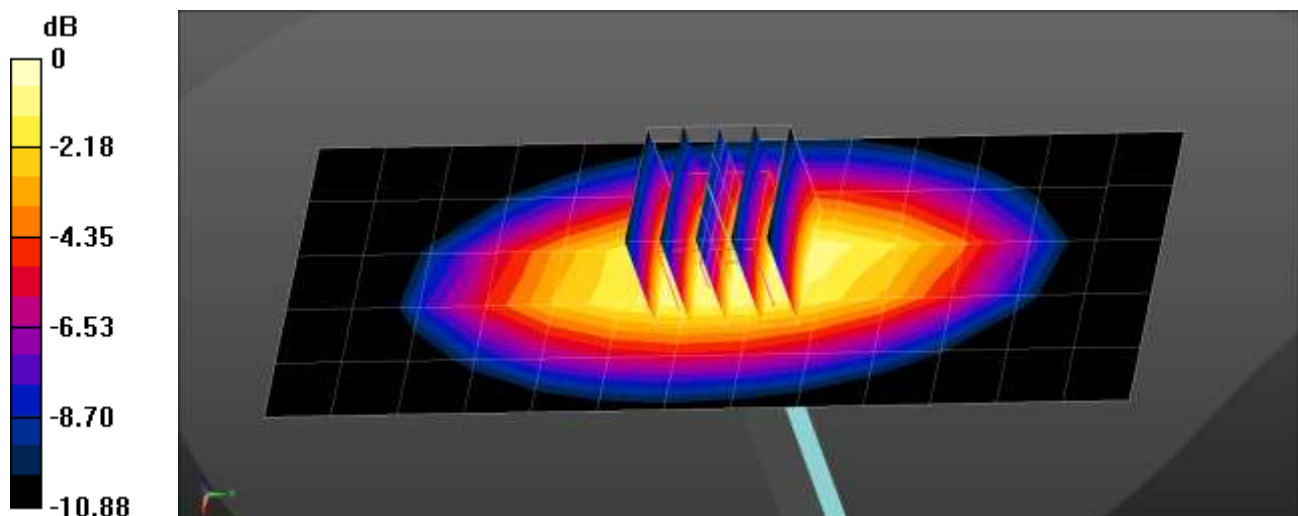
Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.88 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.658 W/kg



0 dB = 0.658 W/kg = -1.82 dBW/kg

■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.4 °C
Test Date: 04/18/2022
Band: LTE Band 26

DUT: Dipole 835 MHz D835V2; Type: D835V2;

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.927 \text{ S/m}$; $\epsilon_r = 41.597$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.4, 10.4, 10.4) @ 835 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V8.0 (Right-Left)
- Measurement SW: DASY52, Version 52.10 (4)

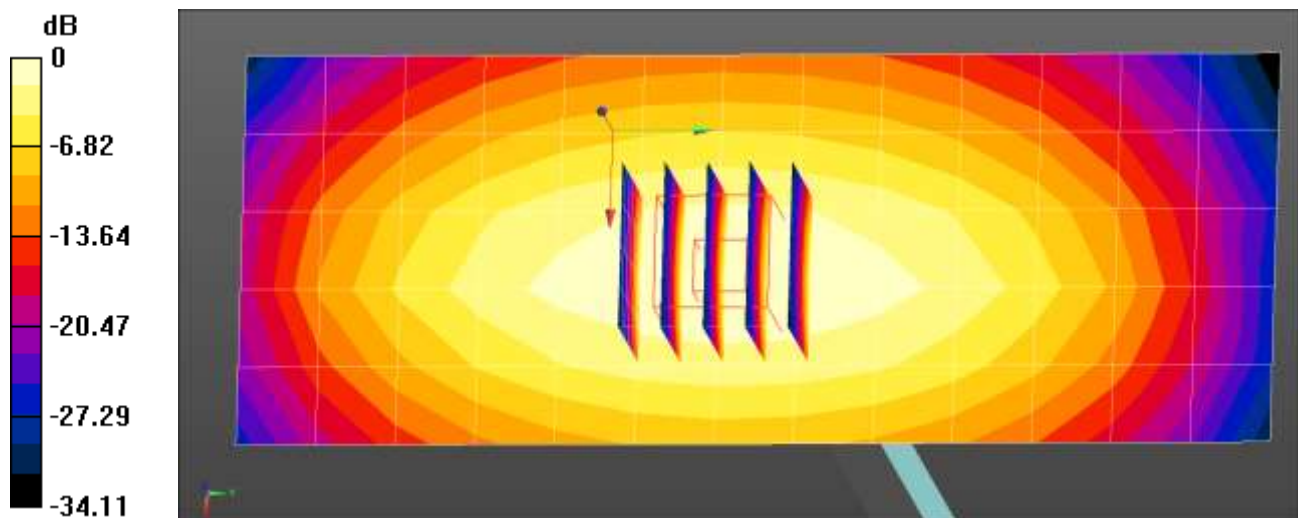
Dipole/835MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.650 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.46 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.489 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 0.662 W/kg



0 dB = 0.650 W/kg = -1.87 dBW/kg

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.1 °C
Test Date: 04/13/2022
Band: UMTS Band 4

DUT: Dipole 1800 MHz; Type: D1800V2;

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.422 \text{ S/m}$; $\epsilon_r = 41.339$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1800 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x7x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 2.11 W/kg

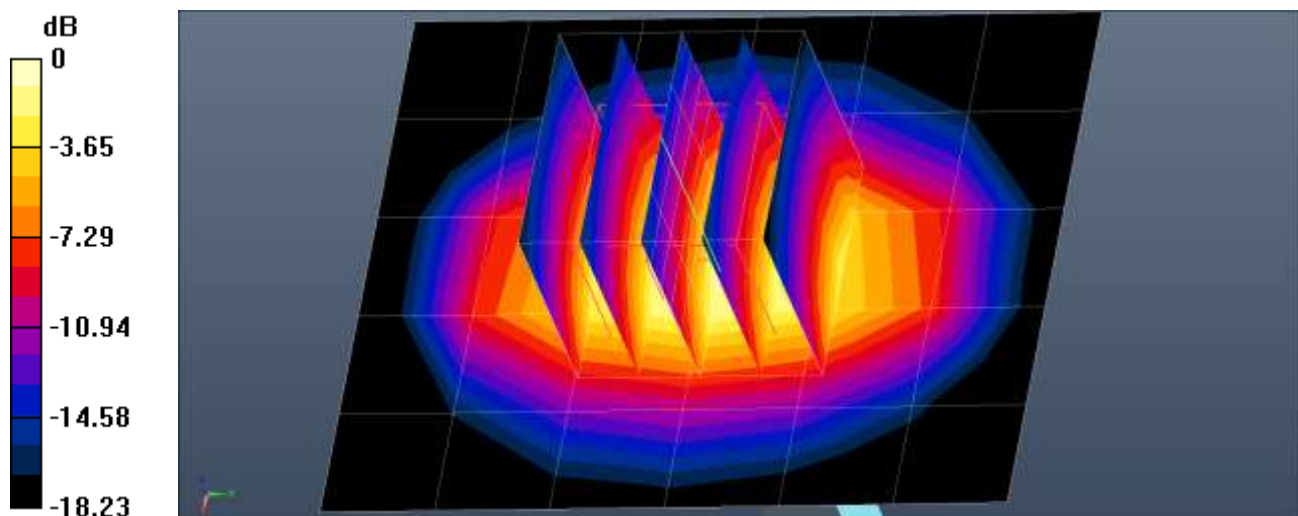
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 46.31 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 1.84 W/kg; SAR(10 g) = 0.960 W/kg

Maximum value of SAR (measured) = 2.87 W/kg



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

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/19/2022
Band: LTE Band 66

DUT: Dipole 1800 MHz; Type: D1800V2;

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 41.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1800 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.11 W/kg

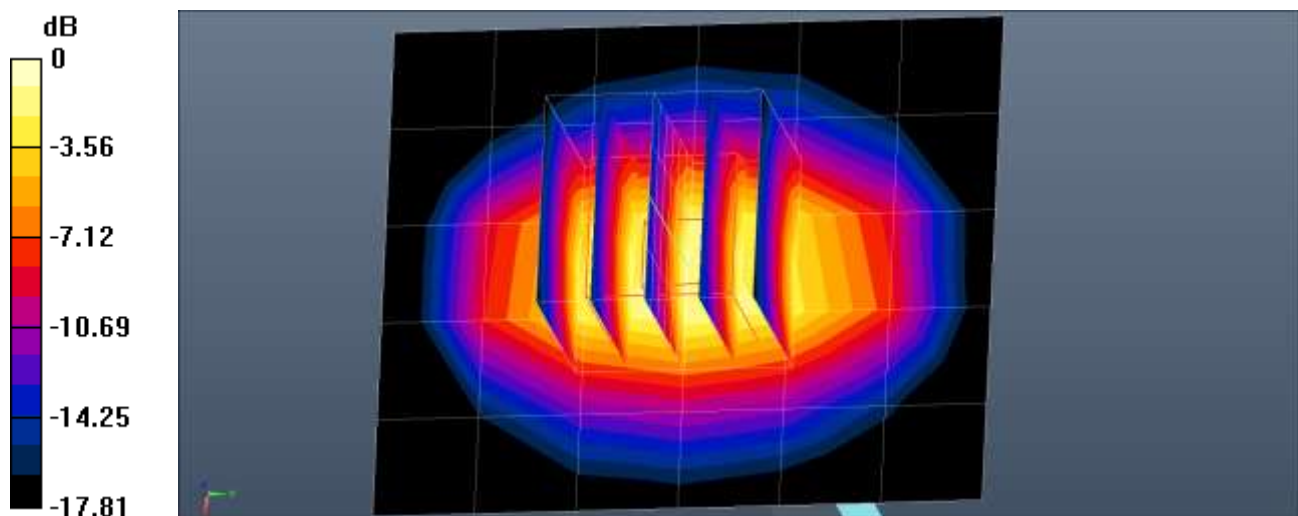
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.66 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 1.84 W/kg; SAR(10 g) = 0.966 W/kg

Maximum value of SAR (measured) = 2.87 W/kg



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

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.0 °C
Test Date: 04/25/2022
Band: PCS CDMA/EVDO

DUT: D1900V2; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.887$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.65 W/kg

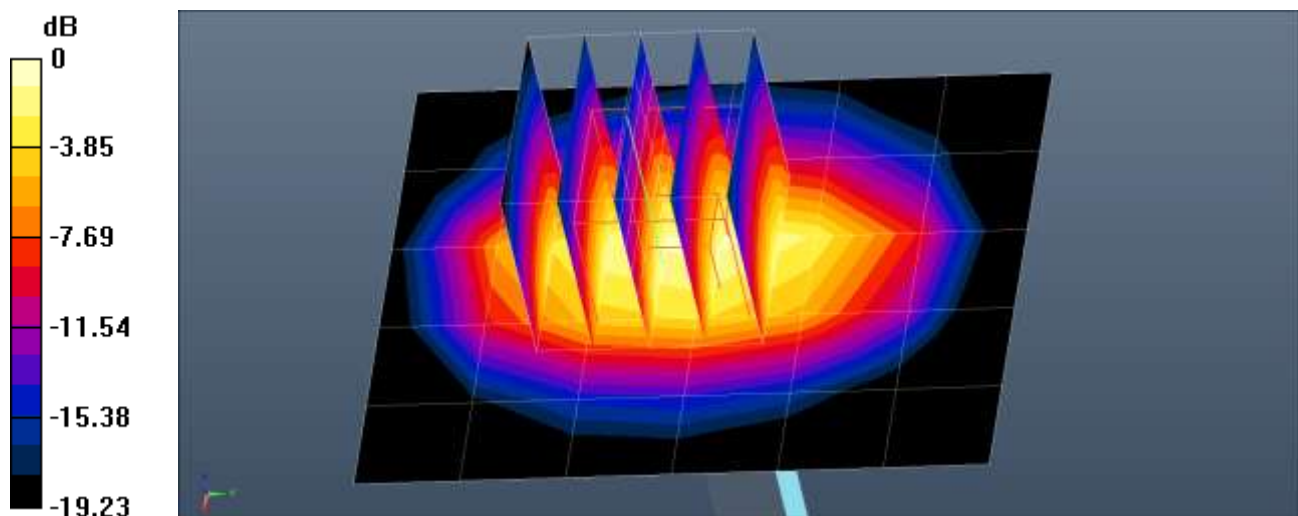
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.02 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 1.93 W/kg; SAR(10 g) = 0.993 W/kg

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

■ Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.4 °C
Test Date: 04/14/2022
Band: GSM1900

DUT: D1900V2; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.705$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.67 W/kg

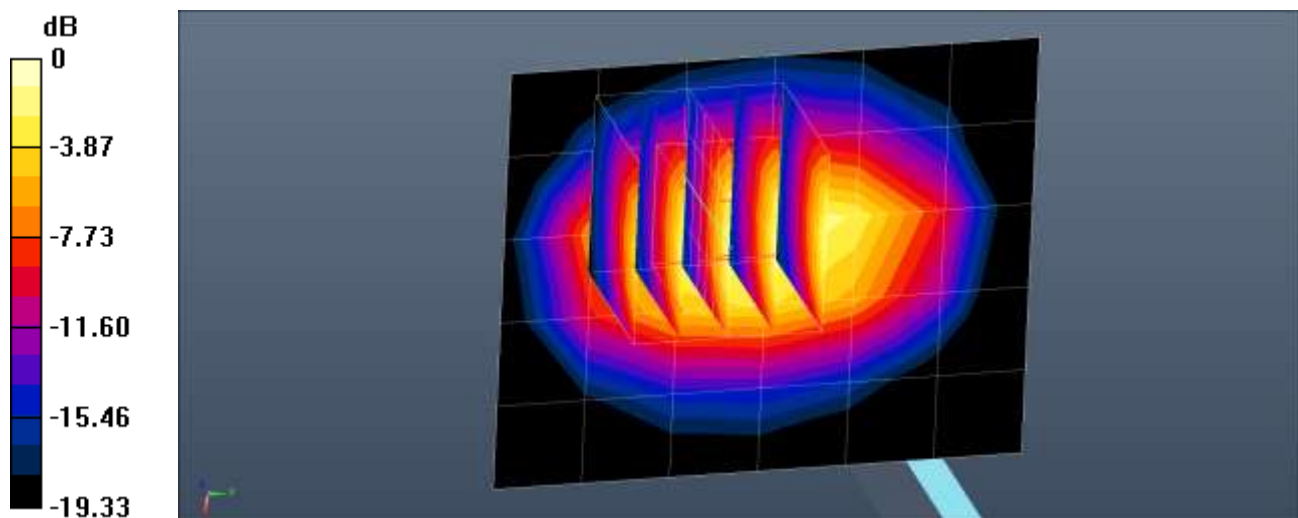
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.27 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1.01 W/kg

Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.09 W/kg = 4.90 dBW/kg

■ Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.7 °C
Test Date: 04/12/2022
Band: UMTS Band 2

DUT: D1900V2 ; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 40.874$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.73 W/kg

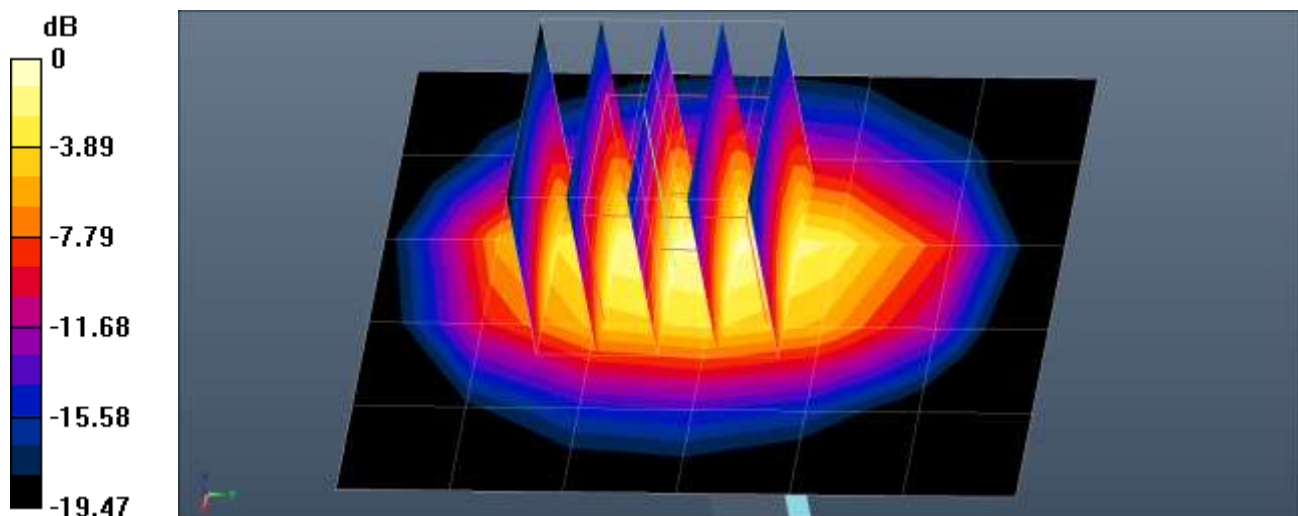
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.21 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.82 W/kg

SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.01 W/kg

Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg

Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 22.0 °C
 Test Date: 04/21/2022
 Band: LTE Band 25

DUT: D1900V2; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.576$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.70 W/kg

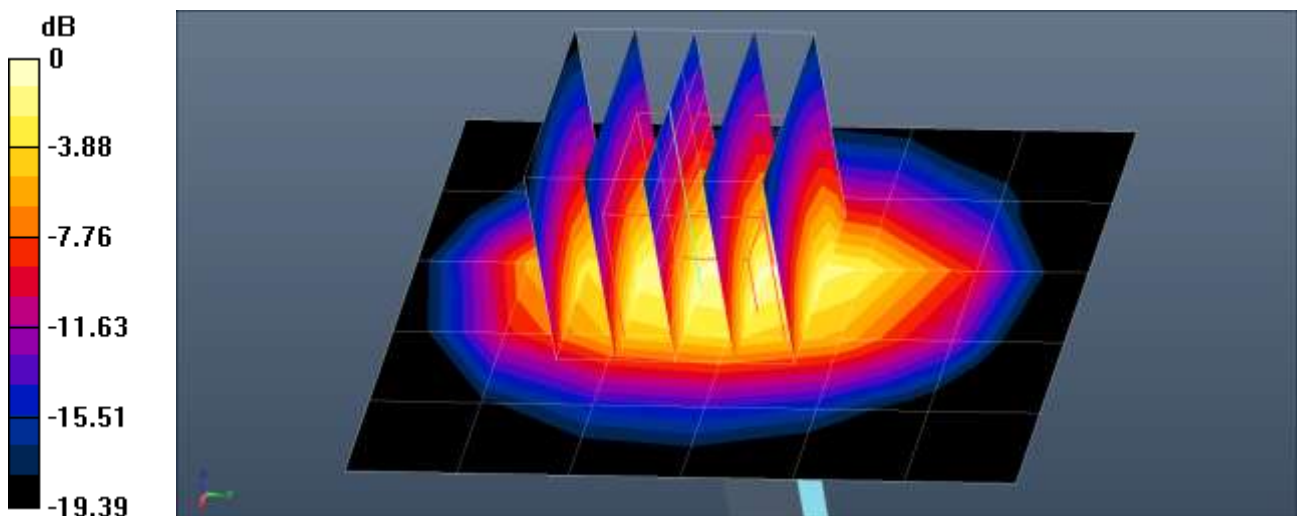
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.21 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1 W/kg

Maximum value of SAR (measured) = 3.08 W/kg



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

■ Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 21.1 °C
 Test Date: 04/19/2022
 Band: LTE Band 30

DUT: D2300V3 ; Type: D2300V3;

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.716$ S/m; $\epsilon_r = 39.932$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.94, 4.94, 4.94) @ 2300 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2300MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 2.84 W/kg

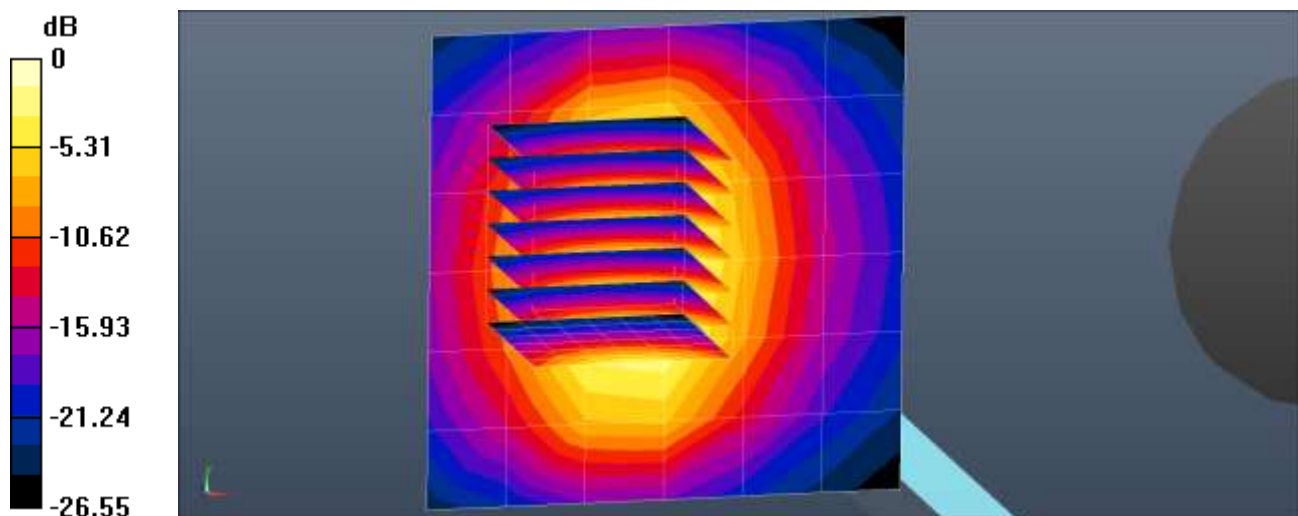
Dipole/2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 41.51 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 5.19 W/kg

SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.2 W/kg

Maximum value of SAR (measured) = 3.37 W/kg



0 dB = 2.84 W/kg = 4.54 dBW/kg

Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.6 °C
Test Date: 04/15/2022
Band: LTE Band 40 Lower

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 0--	2300.0, 0	7.77	1.71	39.9

Hardware Setup

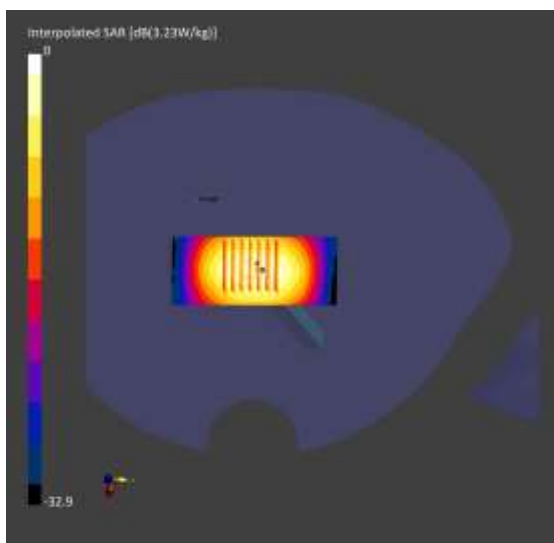
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
Surface Detection	VMS + 6p	VMS + 6p

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.48	2.60
psSAR10g [W/Kg]	1.18	1.26
Power Drift [dB]	-0.02	0.00



■ Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.5 °C
Test Date: 04/18/2022
Band: LTE Band 40 Upper

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SM-G990U2,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 0--	2300.0, 0	7.77	1.71	39.9

Hardware Setup

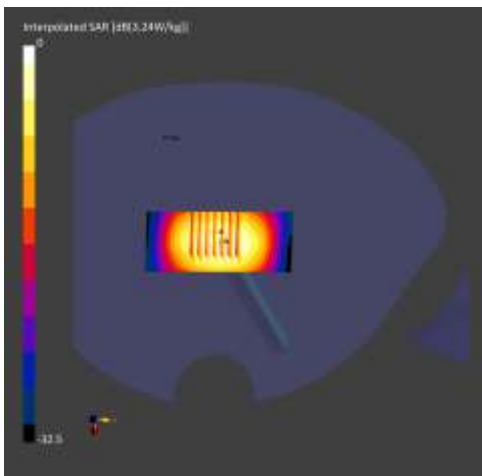
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN3968, 2021-09-29	DAE4 Sn504, 2022-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
Surface Detection	VMS + 6p	VMS + 6p

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.49	2.58
psSAR10g [W/Kg]	1.19	1.26
Power Drift [dB]	0.00	-0.01



■ Verification Data (2 450 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 21.6 °C
 Test Date: 05/03/2022
 Band: 2.4GHz WLAN ANT.2
Measurement Report for Device, , , CW, Channel 0 (2450.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2450.0, 0	7.7	1.83	39.2

Hardware Setup

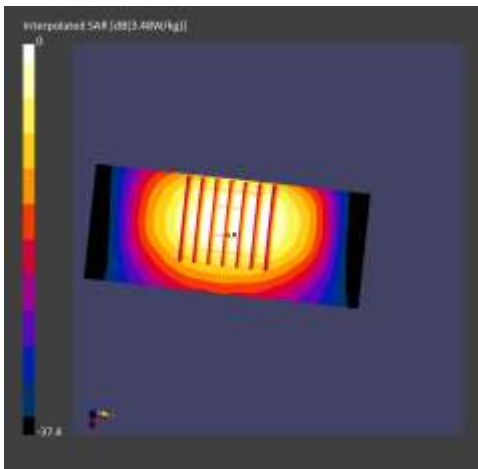
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.70	2.86
psSAR10g [W/Kg]	1.29	1.27
Power Drift [dB]	0.00	-0.01



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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.1 °C
Test Date: 05/04/2022
Band: 2.4GHz WLAN MIMO

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2;

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.827$ S/m; $\epsilon_r = 39.304$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2021-09-27
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.09 W/kg

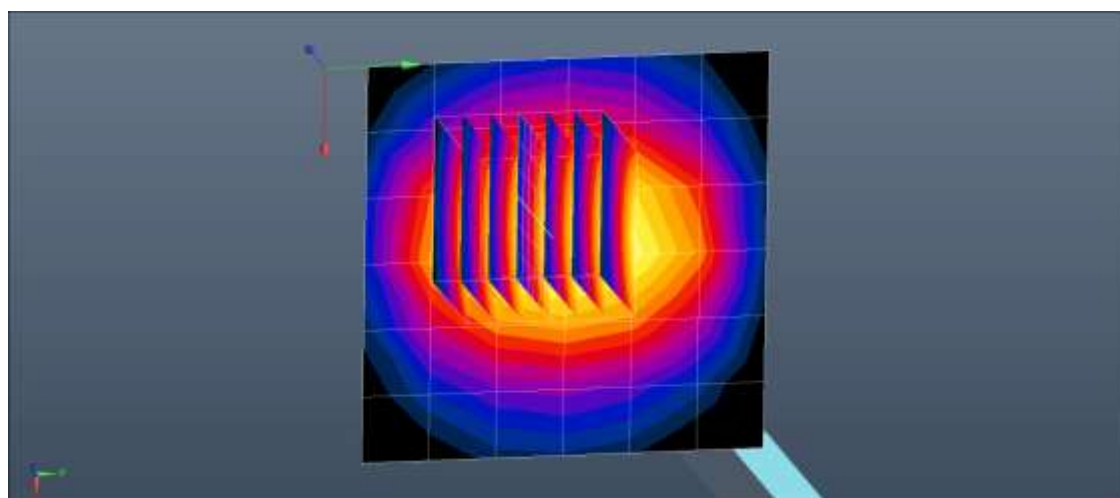
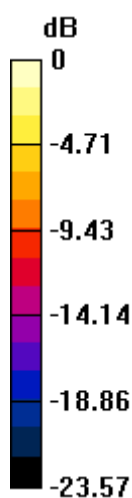
Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 41.30 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 5.50 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.12 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.34 W/kg = 5.24 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 04/22/2022
Band: BT

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2;

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.834$ S/m; $\epsilon_r = 39.244$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.14, 8.14, 8.14) @ 2450 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.20 W/kg

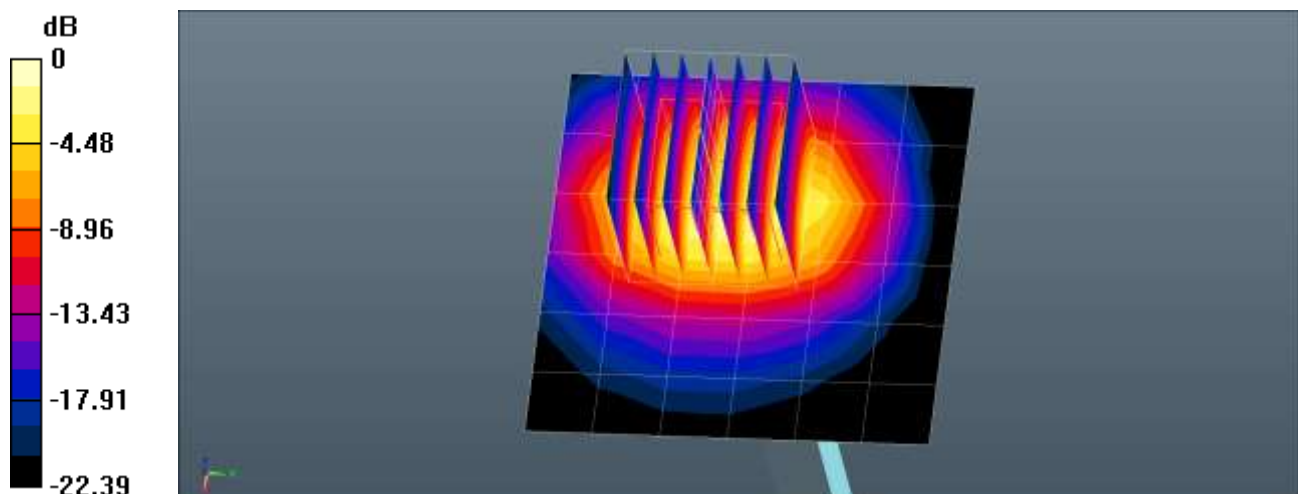
Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.32 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 5.73 W/kg

SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 3.56 W/kg



0 dB = 3.56 W/kg = 5.51 dBW/kg

Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.3°C
Test Date: 04/14/2022
Band: LTE Band 7
Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.57	1.89	38.7

Hardware Setup

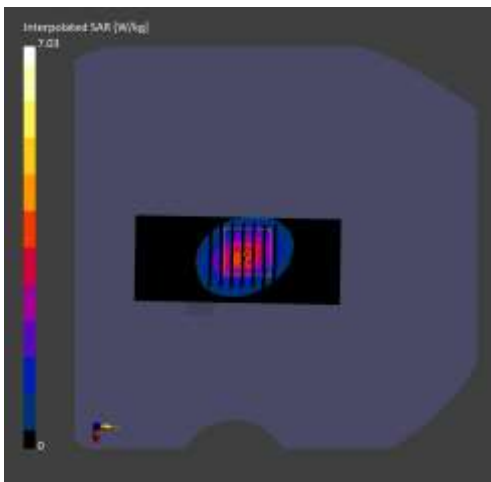
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.85	2.92
psSAR10g [W/Kg]	1.31	1.25
Power Drift [dB]	-0.02	0.02



■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 23.7 °C
 Test Date: 04/15/2022
 Band: LTE Band 41 (PC3)
Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.57	1.89	38.8

Hardware Setup

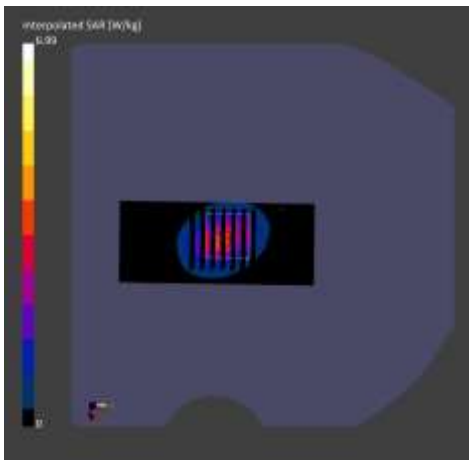
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.86	2.91
psSAR10g [W/Kg]	1.31	1.25
Power Drift [dB]	0.01	-0.01



■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 21.3 °C
 Test Date: 04/21/2022
 Band: LTE Band 41 (PC2)
Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.57	1.96	38.0

Hardware Setup

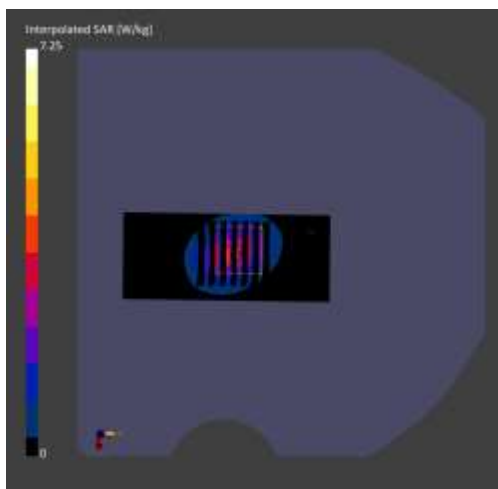
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.95	3.01
psSAR10g [W/Kg]	1.36	1.29
Power Drift dB]	-0.01	0.02



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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.2 °C
Test Date: 04/19/2022
Band: LTE Band 48

DUT: D3500V2 ; Type: D3500V2;

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500 \text{ MHz}$; $\sigma = 2.921 \text{ S/m}$; $\epsilon_r = 37.008$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.3, 7.3, 7.3) @ 3500 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3500MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.05 W/kg

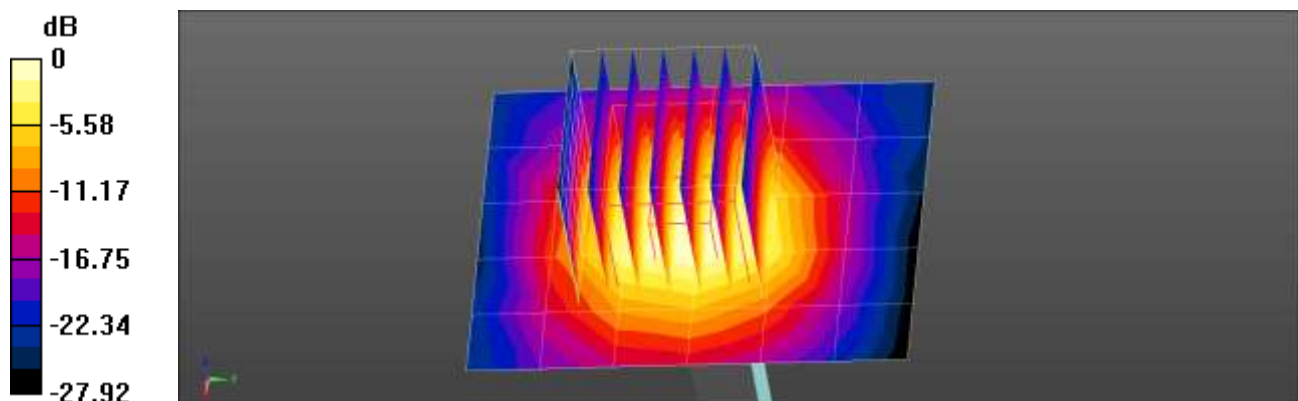
Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 48.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 8.20 W/kg

SAR(1 g) = 2.97 W/kg; SAR(10 g) = 1.11 W/kg

Maximum value of SAR (measured) = 5.79 W/kg



0 dB = 5.05 W/kg = 7.04 dBW/kg

■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.2 °C
Test Date: 04/19/2022
Band: LTE Band 48

DUT: Dipole 3700 MHz D3700V2; Type: D3700V2;

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.069$ S/m; $\epsilon_r = 36.819$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.25, 7.25, 7.25) @ 3700 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.06 W/kg

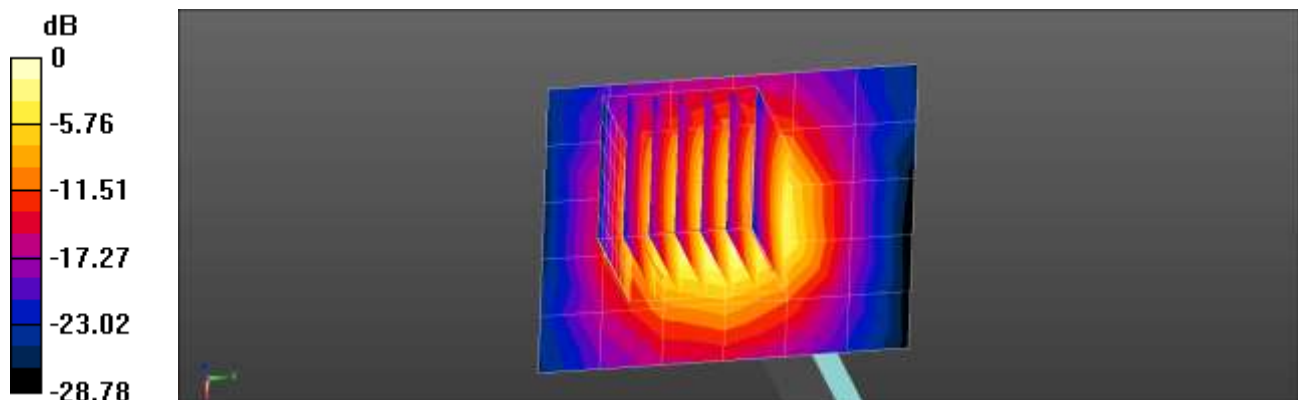
Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 49.07 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 9.84 W/kg

SAR(1 g) = 3.33 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (measured) = 6.79 W/kg



0 dB = 5.06 W/kg = 7.04 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.1 °C
Test Date: 05/09/2022
Band: 5 GHz WLAN Head

DUT: D5GHzV2 ; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.658$ S/m; $\epsilon_r = 37.009$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(5.54, 5.54, 5.54) @ 5250 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5250MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.63 W/kg

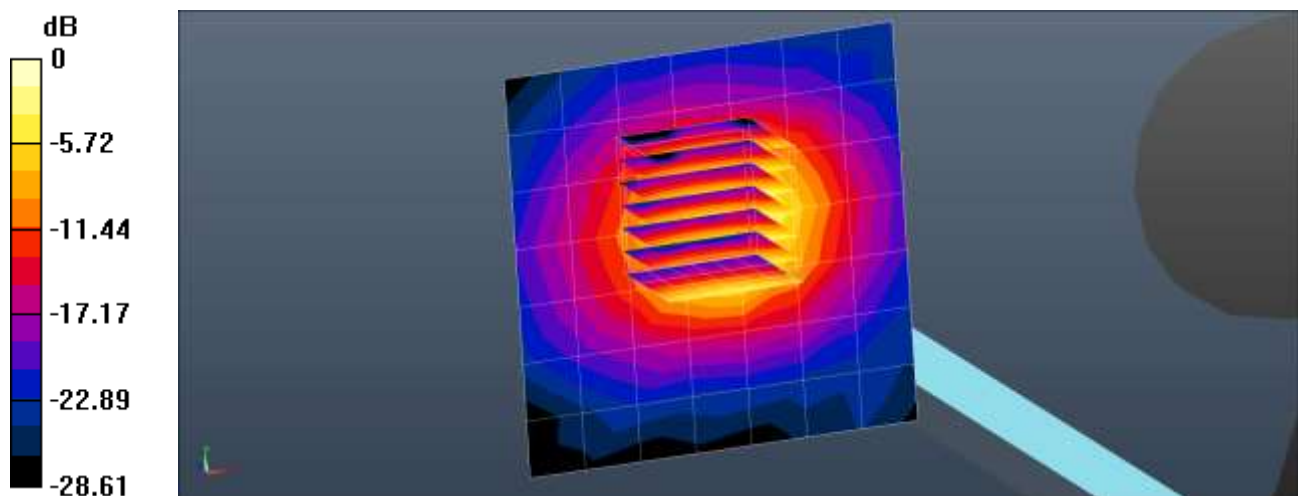
Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.71 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 3.96 W/kg; SAR(10 g) = 1.15 W/kg

Maximum value of SAR (measured) = 9.88 W/kg



0 dB = 9.63 W/kg = 9.84 dBW/kg

■ Verification Data (5 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.1 °C
Test Date: 05/09/2022
Band: 5 GHz WLAN Head
DUT: D5GHzV2 ; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 4.934$ S/m; $\epsilon_r = 36.467$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(4.8, 4.8, 4.8) @ 5600 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.43 W/kg

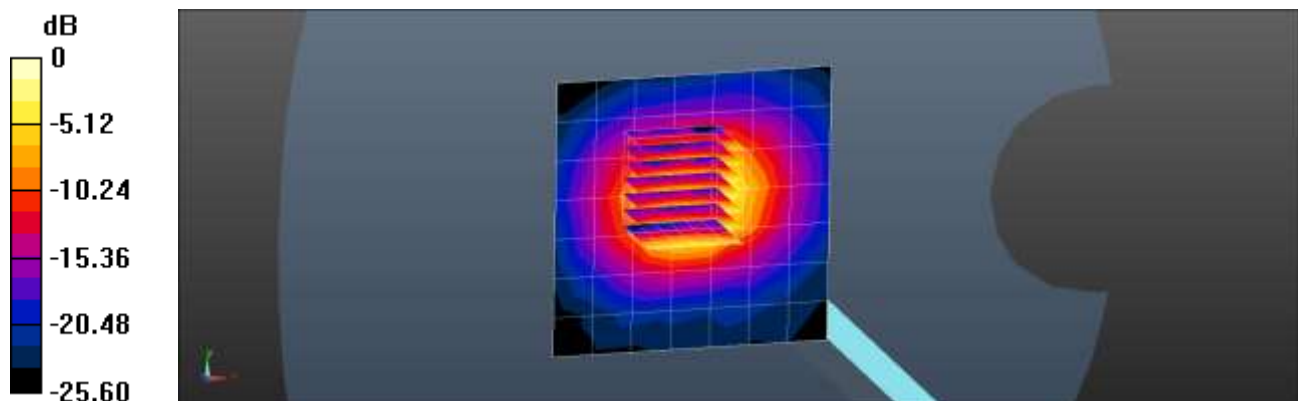
Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.16 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 4.35 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 8.43 W/kg = 9.26 dBW/kg

■ Verification Data (5 750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.1 °C
Test Date: 05/09/2022
Band: 5 GHz WLAN Head
DUT: D5GHzV2 ; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.199$ S/m; $\epsilon_r = 36.21$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5750MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 7.36 W/kg

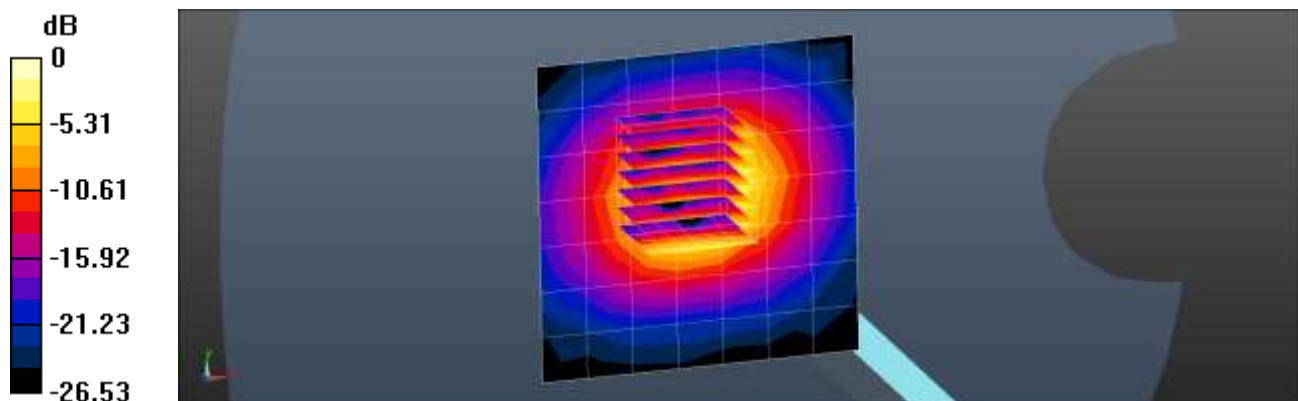
Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 45.96 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.09 W/kg

Maximum value of SAR (measured) = 9.66 W/kg



0 dB = 7.36 W/kg = 8.67 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.0 °C
Test Date: 05/04/2022
Band: 5 GHz WLAN Body

DUT: Dipole D5GHzV2; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.662$ S/m; $\epsilon_r = 35.514$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.55, 5.55, 5.55) @ 5250 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5250MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 7.84 W/kg

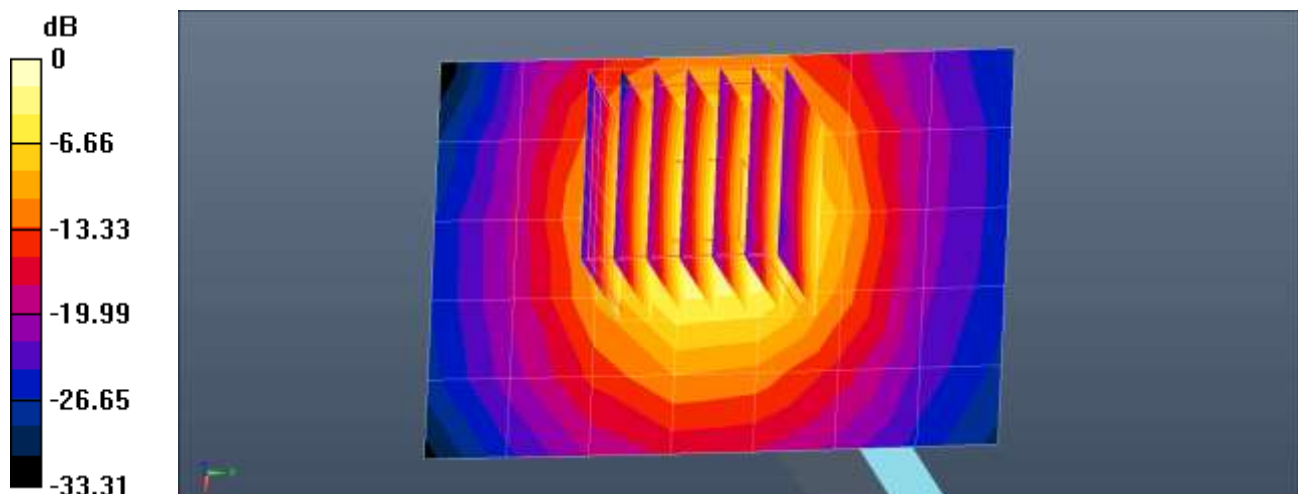
Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.42 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.16 W/kg

Maximum value of SAR (measured) = 9.87 W/kg



0 dB = 7.84 W/kg = 8.94 dBW/kg

■ Verification Data (5 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.9 °C
Test Date: 05/09/2022
Band: 5 GHz WLAN Body

DUT: Dipole D5GHzV2; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.061$ S/m; $\epsilon_r = 36.06$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.1, 5.1, 5.1) @ 5600 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5600MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.17 W/kg

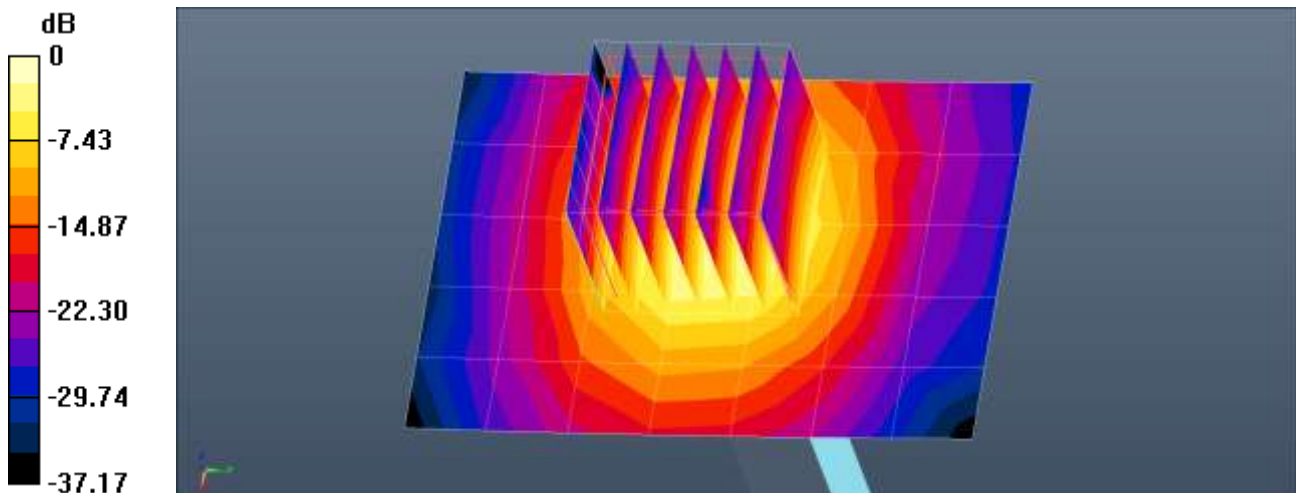
Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 45.06 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 4.38 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 9.17 W/kg = 9.62 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.0 °C
Test Date: 05/10/2022
Band: 5 GHz WLAN Body

DUT: Dipole D5GHzV2; Type: D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.288$ S/m; $\epsilon_r = 35.447$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(5.09, 5.09, 5.09) @ 5750 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5750MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.25 W/kg

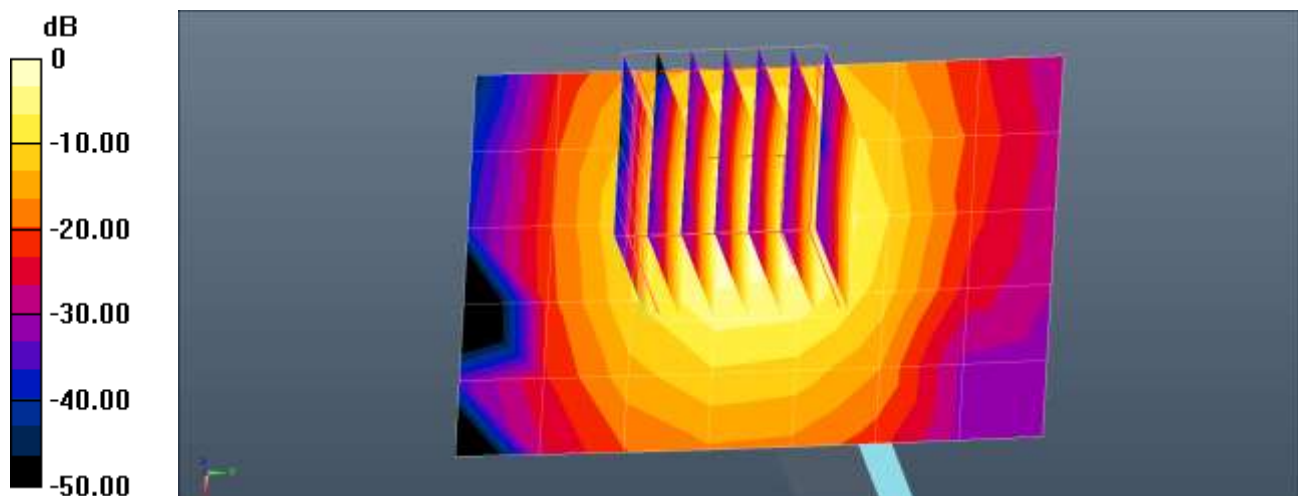
Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 43.61 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 4 W/kg; SAR(10 g) = 1.16 W/kg

Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 8.25 W/kg = 9.16 dBW/kg

* ULCA

■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.6 °C
Test Date: 05/13/2022
Band: LTE Band 5 ULCA

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 41.175$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7681; ConvF(10.4, 10.4, 10.4) @ 835 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/835MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.611 W/kg

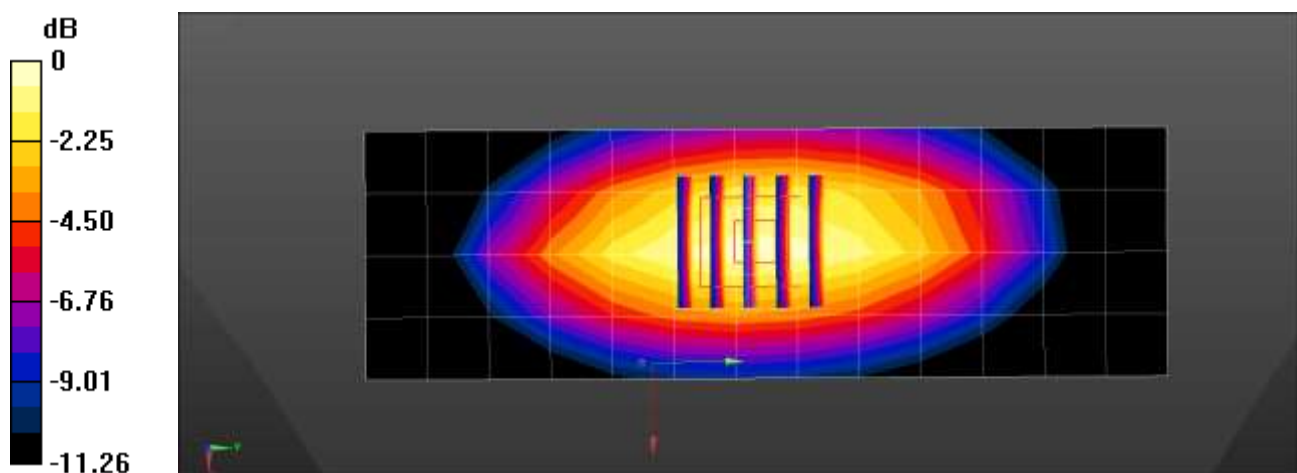
Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.91 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.304 W/kg

Maximum value of SAR (measured) = 0.644 W/kg



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

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.5 °C
Test Date: 05/04/2022
Band: LTE Band 66 ULCA

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 40.805$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7681; ConvF(9.16, 9.16, 9.16) @ 1800 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1800MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.40 W/kg

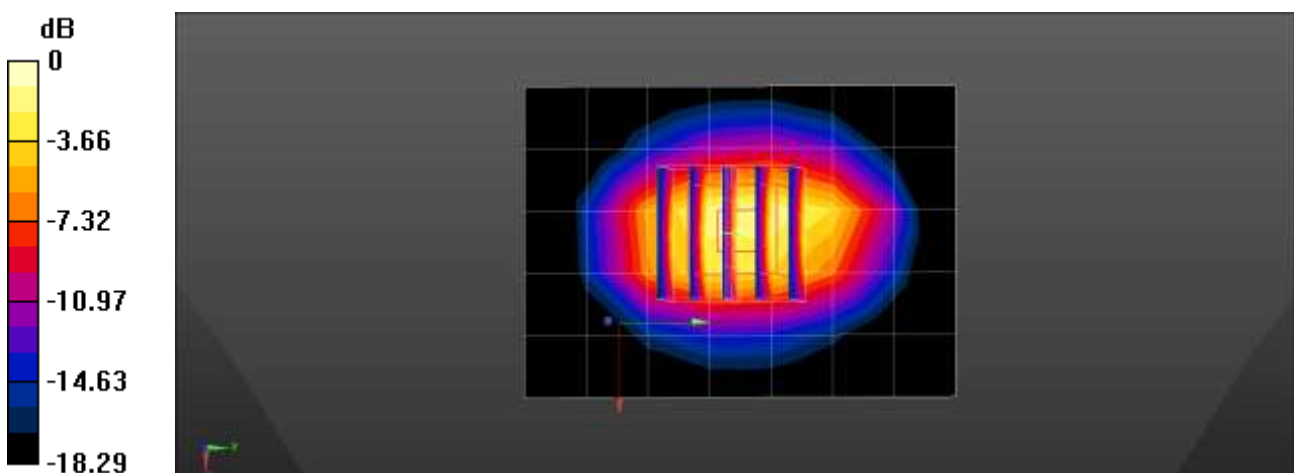
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.61 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.01 W/kg

Maximum value of SAR (measured) = 3.13 W/kg



0 dB = 3.13 W/kg = 4.96 dBW/kg

■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.0 °C
Test Date: 04/30/2022
Band: LTE Band 41 ULCA

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.989$ S/m; $\epsilon_r = 38.096$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7681; ConvF(8, 8, 8) @ 2600 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.61 W/kg

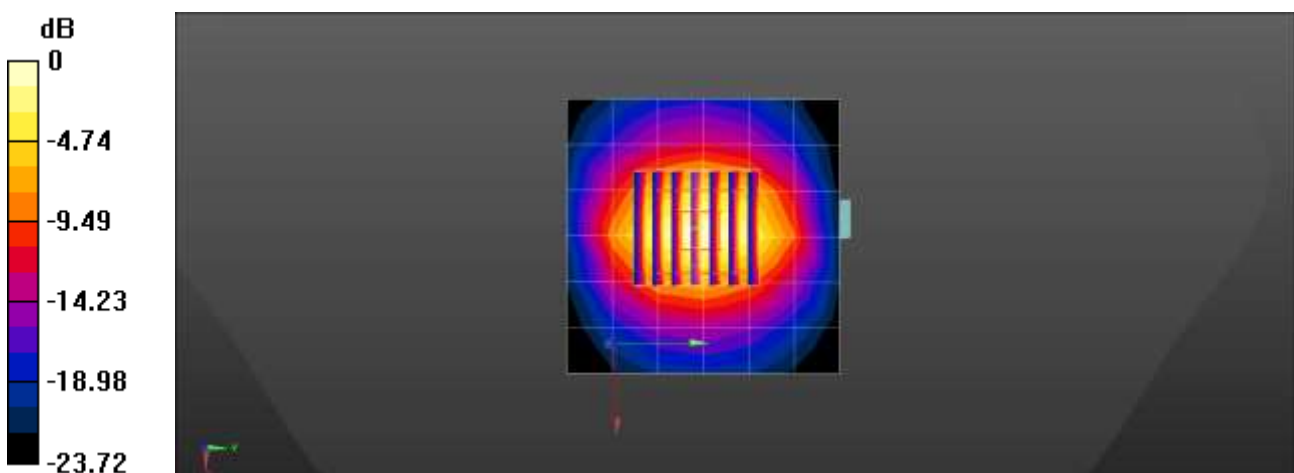
Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.39 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 5.93 W/kg

SAR(1 g) = 2.7 W/kg; SAR(10 g) = 1.2 W/kg

Maximum value of SAR (measured) = 4.66 W/kg



■ Verification Data (3 500 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.8 °C
Test Date: 05/13/2022
Band: LTE Band 48 ULCA

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.914$ S/m; $\epsilon_r = 37.641$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.15, 7.15, 7.15) @ 3500 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 5.17 W/kg

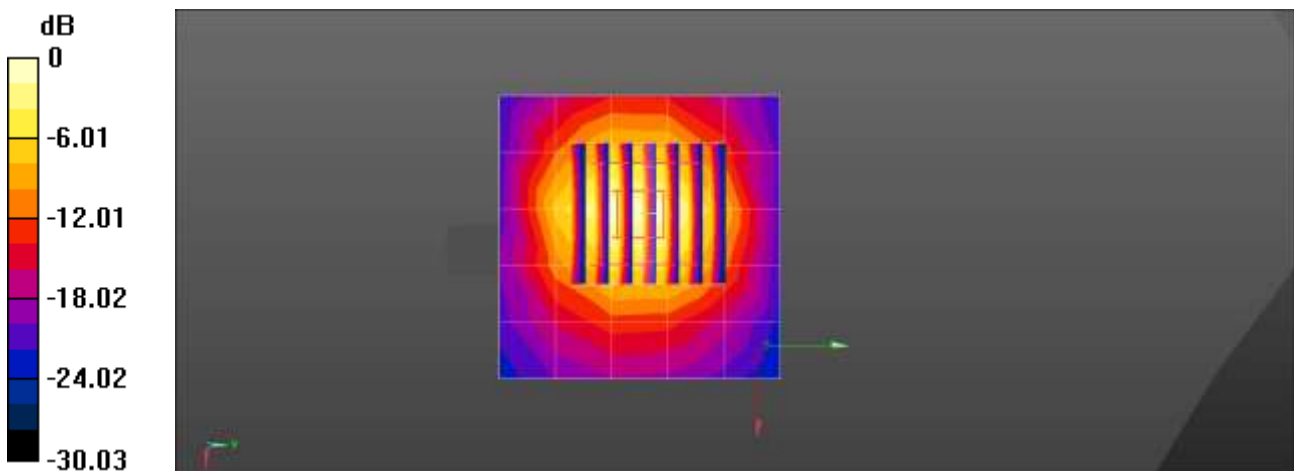
Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 42.36 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 8.05 W/kg

SAR(1 g) = 3.09 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (measured) = 6.01 W/kg



0 dB = 6.01 W/kg = 7.79 dBW/kg

■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.8 °C
Test Date: 05/13/2022
Band: LTE Band 48 ULCA

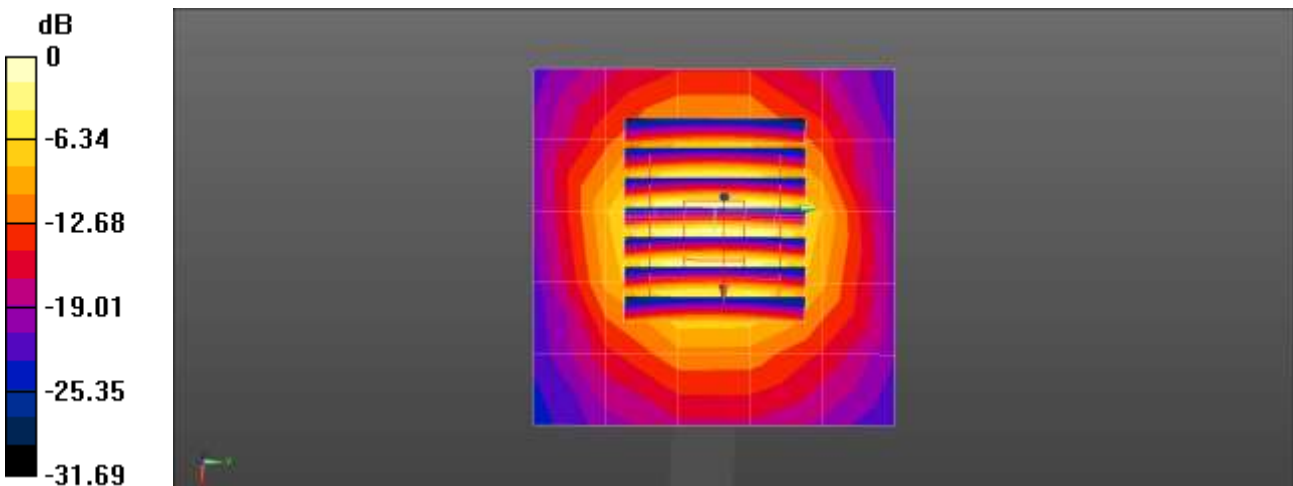
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.075$ S/m; $\epsilon_r = 37.373$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(7.14, 7.14, 7.14) @ 3700 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- 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/3700MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.49 W/kg

Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.19 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 8.48 W/kg
SAR(1 g) = 3.21 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 6.33 W/kg



0 dB = 6.33 W/kg = 8.01 dBW/kg

* NR Band

■ Verification Data (750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.0 °C
Test Date: 04/20/2022
Band: NR Band n12

DUT: Dipole 750 MHz D750V3; Type: D750V3;

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.906 \text{ S/m}$; $\epsilon_r = 42.609$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

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

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.547 W/kg

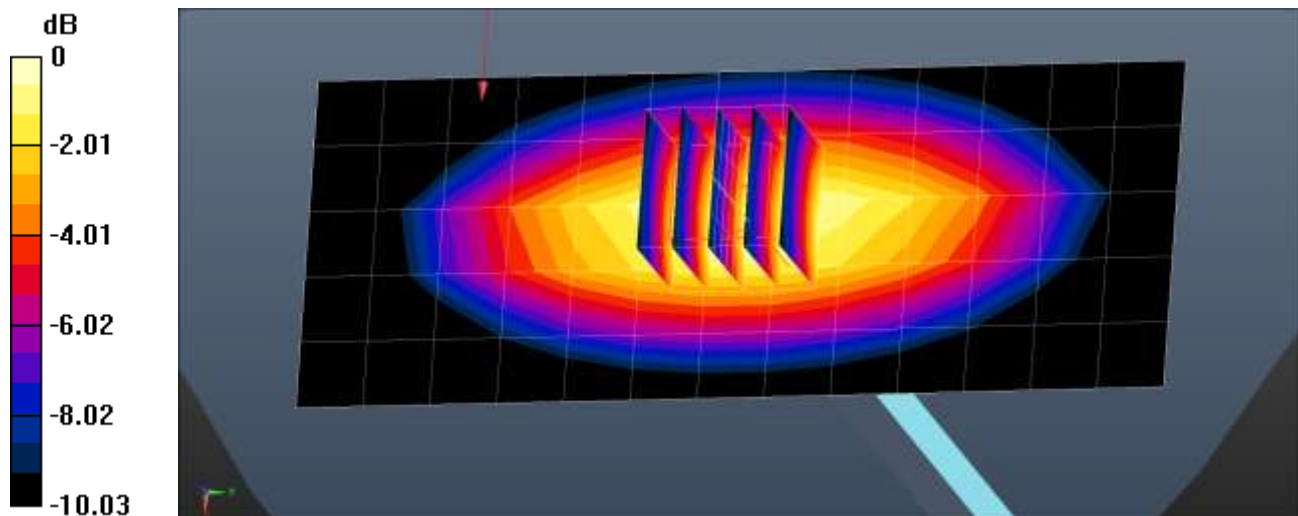
Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.40 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.599 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

■ Verification Data (750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.8 °C
Test Date: 04/21/2022
Band: NR Band n71

DUT: Dipole 750 MHz D750V3; Type: D750V3;

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 42.616$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

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

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.547 W/kg

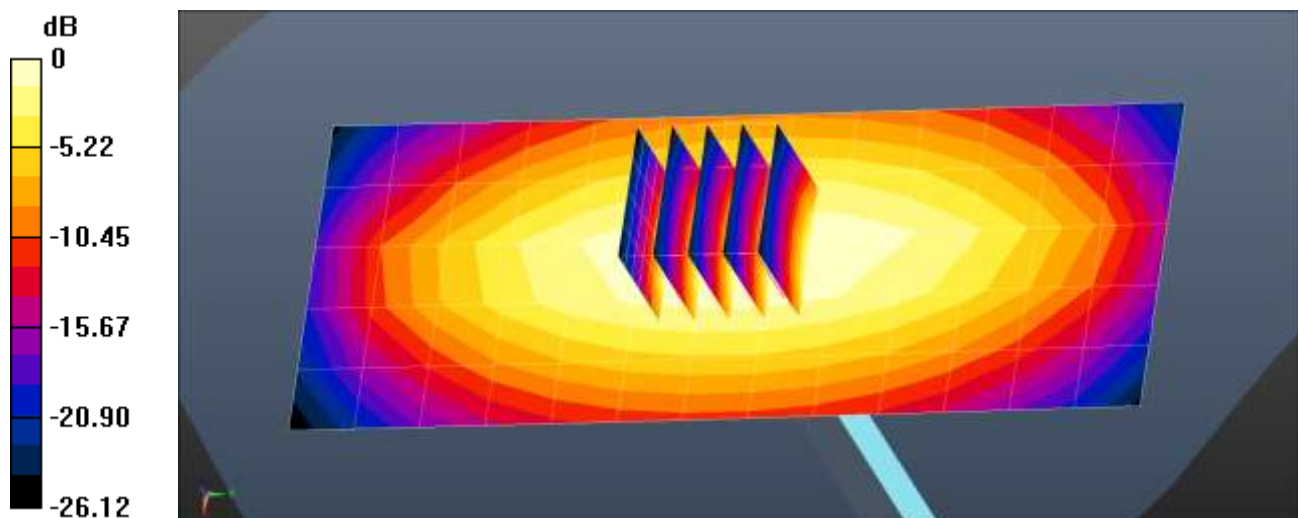
Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.547 W/kg = -2.62 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.8 °C
Test Date: 04/19/2022
Band: NR Band n5

DUT: D835V2 ; Type: D835V2;

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 41.442$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

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

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.613 W/kg

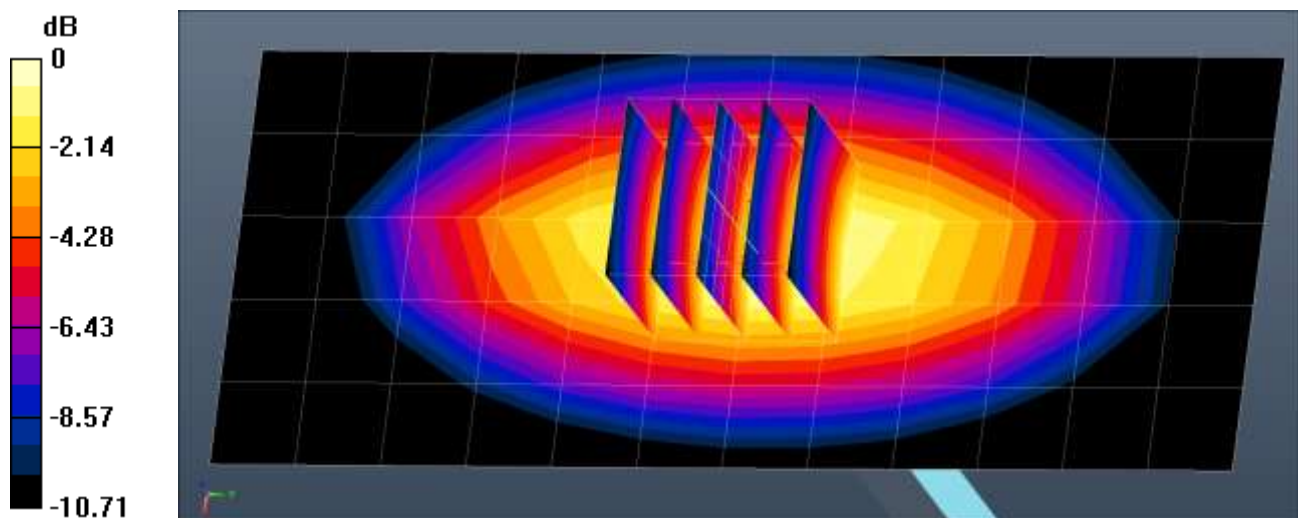
Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.80 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.755 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 0.668 W/kg



0 dB = 0.668 W/kg = -1.75 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.8 °C
Test Date: 04/22/2022
Band: NR Band n66

DUT: Dipole 1800 MHz; Type: D1800V2;

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 41.341$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1800 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.11 W/kg

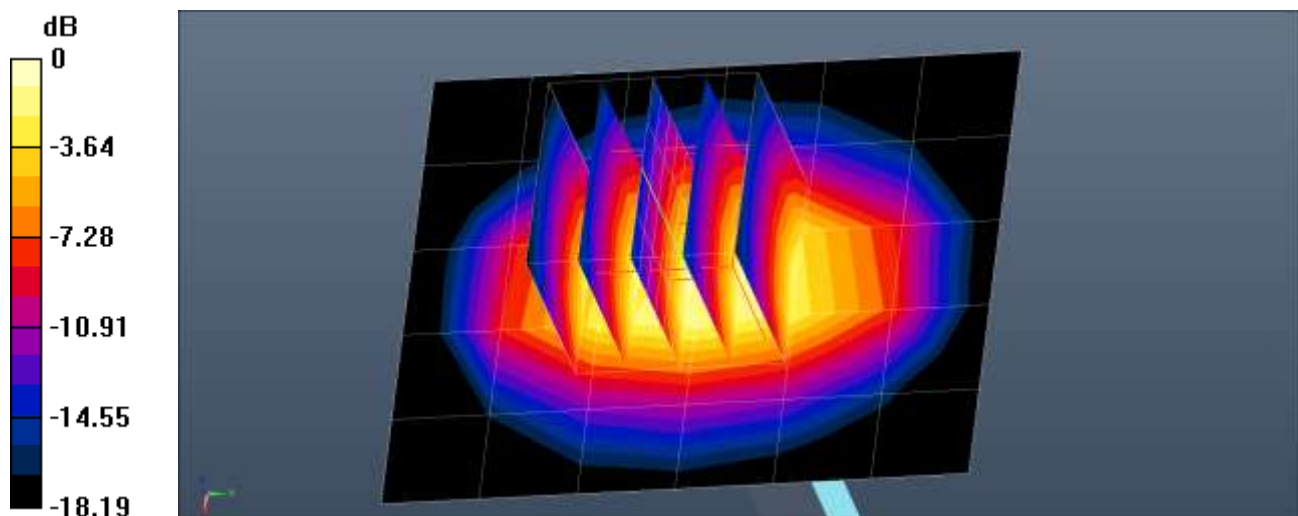
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.39 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 1.84 W/kg; SAR(10 g) = 0.964 W/kg

Maximum value of SAR (measured) = 2.88 W/kg



0 dB = 2.88 W/kg = 4.59 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.1 °C
Test Date: 04/28/2022
Band: NR Band n25

DUT: D1900V2 ; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.819$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.71 W/kg

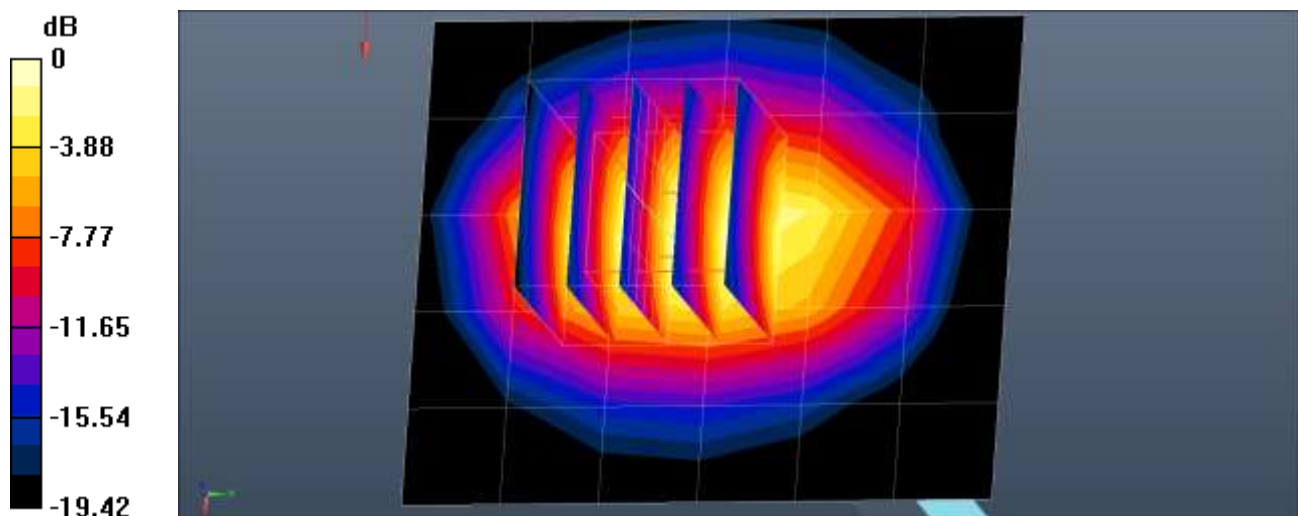
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.25 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1 W/kg

Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.09 W/kg = 4.90 dBW/kg

■ Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.1 °C
Test Date: 04/26/2022
Band: NR Band n30

DUT: Dipole 2300 MHz D2300V2; Type: D2300V3;

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2300$ MHz; $\sigma = 1.713$ S/m; $\epsilon_r = 39.927$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(8.49, 8.49, 8.49) @ 2300 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2300MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.43 W/kg

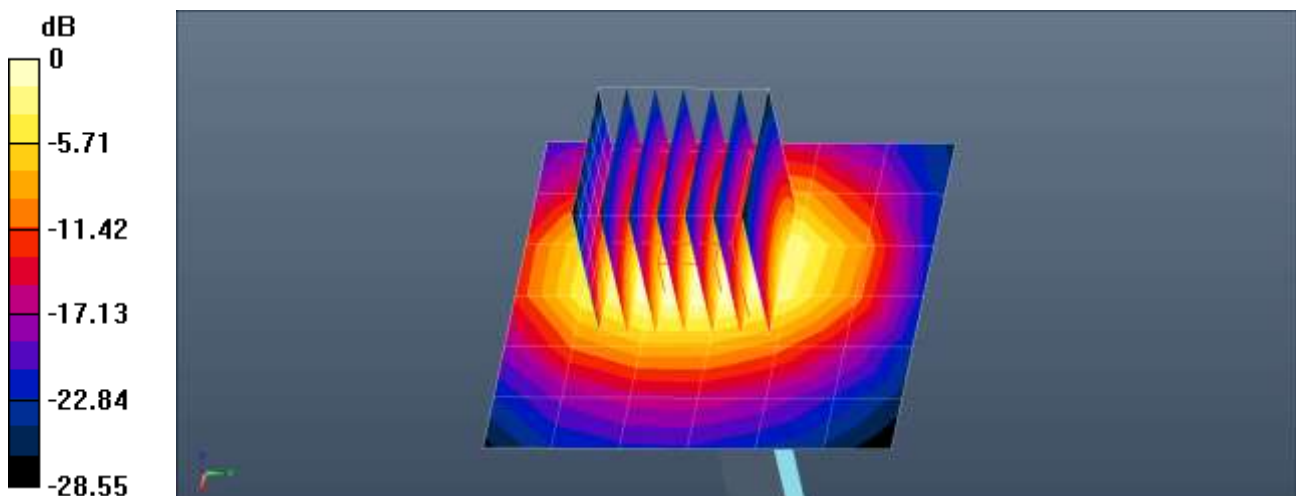
Dipole/2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.33 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 4.94 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.19 W/kg

Maximum value of SAR (measured) = 3.24 W/kg



0 dB = 2.43 W/kg = 3.85 dBW/kg

■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.0 °C
Test Date: 04/25/2022
Band: NR Band n41

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2;

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 38.75$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(7.93, 7.93, 7.93) @ 2600 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.79 W/kg

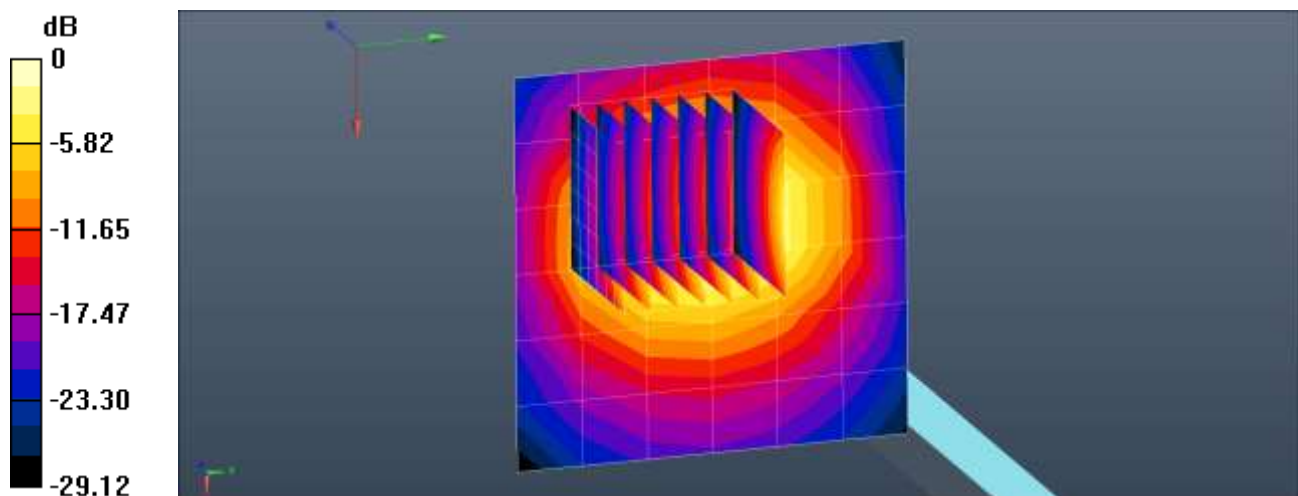
Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.63 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.96 W/kg

SAR(1 g) = 2.7 W/kg; SAR(10 g) = 1.2 W/kg

Maximum value of SAR (measured) = 3.62 W/kg



0 dB = 2.79 W/kg = 4.46 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 18.7 °C
Test Date: 04/28/2022
Band: NR Band n77 DoD

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2;

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.928$ S/m; $\epsilon_r = 37.154$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(7.25, 7.25, 7.25) @ 3500 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3500MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 5.42 W/kg

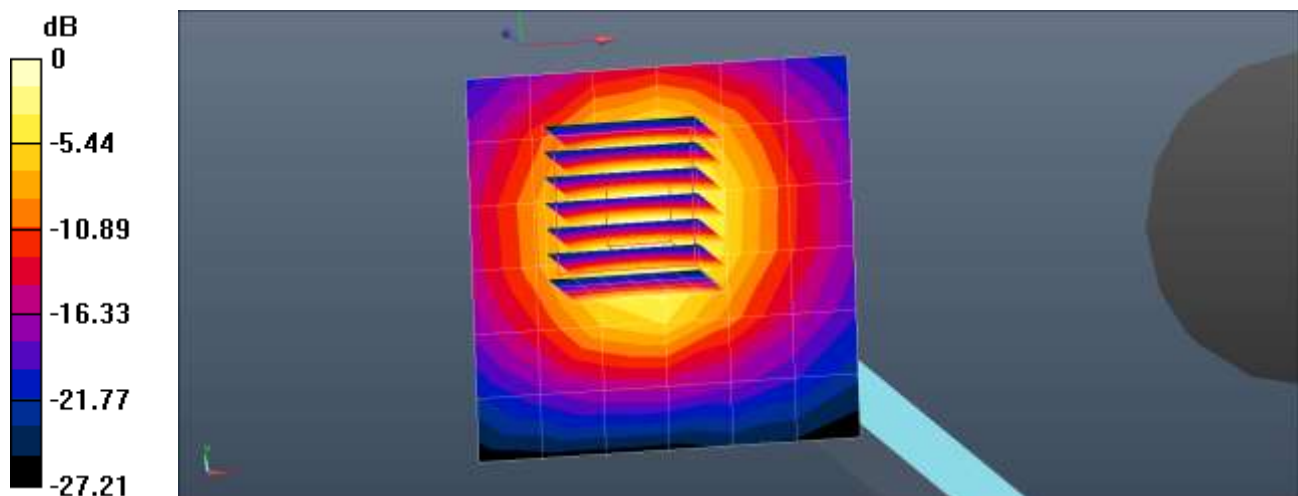
Dipole/3500MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 43.50 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 8.39 W/kg

SAR(1 g) = 3.05 W/kg; SAR(10 g) = 1.14 W/kg

Maximum value of SAR (measured) = 6.10 W/kg



0 dB = 5.42 W/kg = 7.34 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.8 °C
Test Date: 04/29/2022
Band: NR Band n77 DoD SRS2

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2;

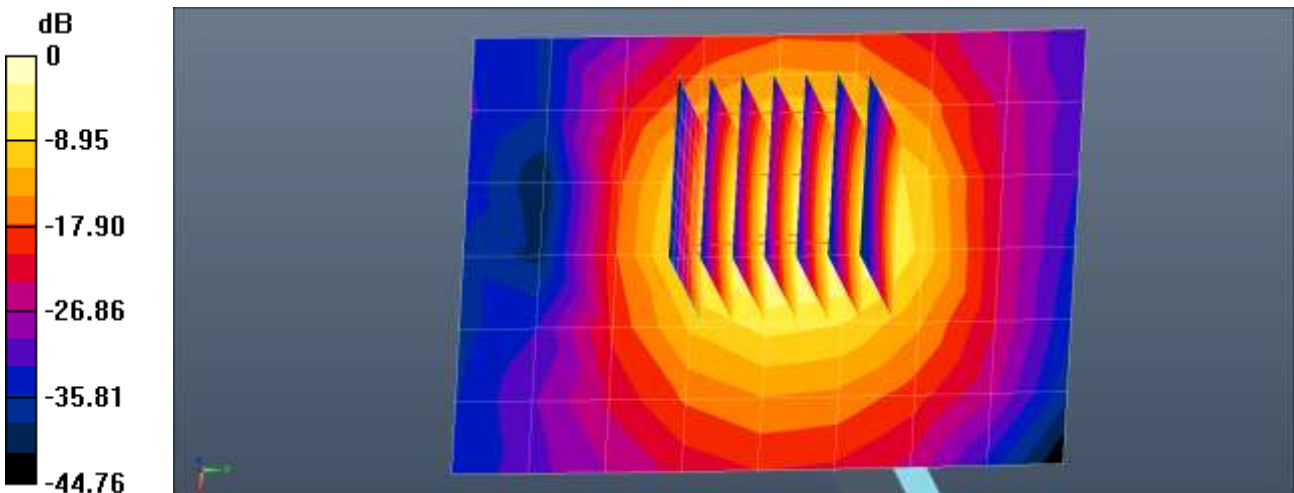
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.927$ S/m; $\epsilon_r = 36.441$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.25, 7.25, 7.25) @ 3500 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3500MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.51 W/kg

Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 45.89 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 9.36 W/kg
SAR(1 g) = 3.36 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 6.71 W/kg



0 dB = 5.51 W/kg = 7.41 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 05/02/2022
Band: NR Band n77 DoD SRS3

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2;

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.931$ S/m; $\epsilon_r = 36.481$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.25, 7.25, 7.25) @ 3500 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3500MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.48 W/kg

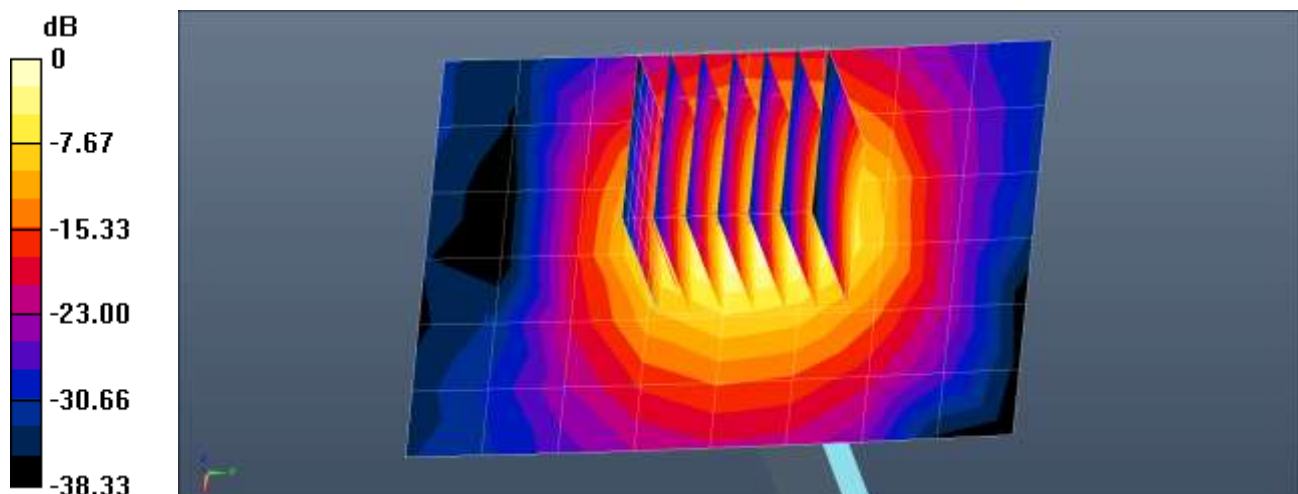
Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 45.71 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 9.40 W/kg

SAR(1 g) = 3.38 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (measured) = 6.75 W/kg



0 dB = 5.48 W/kg = 7.39 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 05/03/2022
Band: NR Band n77 DoD SRS4

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2;

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.931$ S/m; $\epsilon_r = 36.479$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.25, 7.25, 7.25) @ 3500 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3500MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.45 W/kg

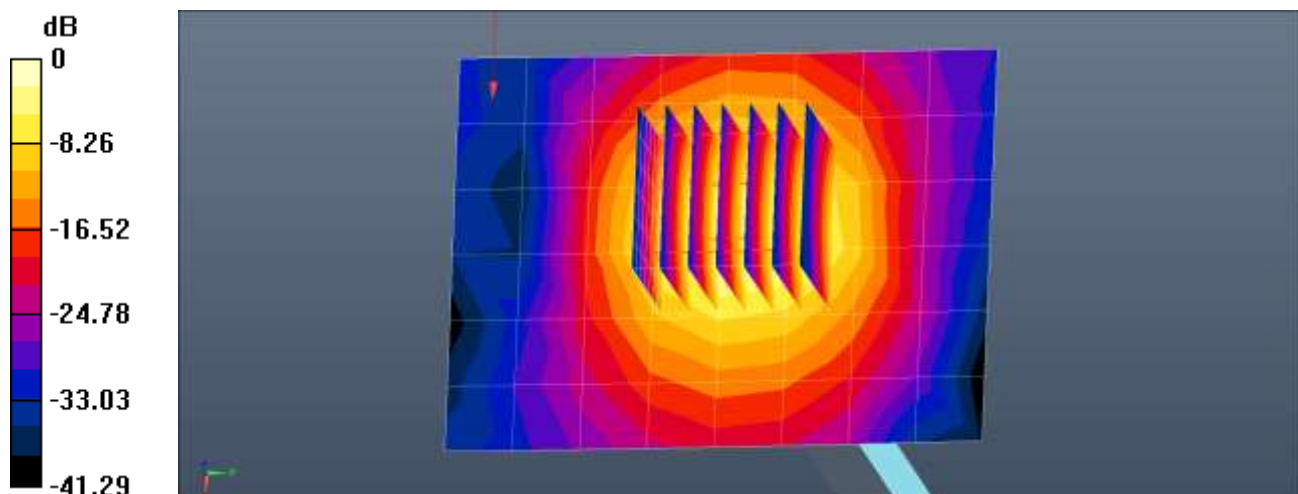
Dipole/3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 45.65 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 9.32 W/kg

SAR(1 g) = 3.37 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (measured) = 6.68 W/kg



0 dB = 5.45 W/kg = 7.37 dBW/kg

■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.6 °C
Test Date: 04/21/2022
Band: NR Band n77
DUT: D3700V2 ; Type: D3700V2;

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 3.06 \text{ S/m}$; $\epsilon_r = 36.833$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(7.15, 7.15, 7.15) @ 3700 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3700MHz Head Verification/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 6.02 W/kg

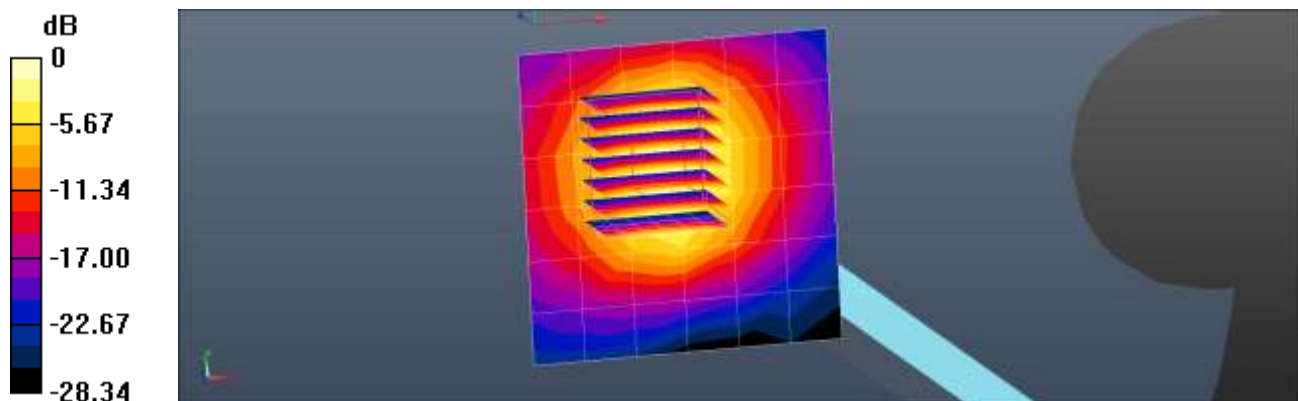
Dipole/3700MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 45.06 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 9.61 W/kg

SAR(1 g) = 3.32 W/kg; SAR(10 g) = 1.2 W/kg

Maximum value of SAR (measured) = 6.82 W/kg



0 dB = 6.02 W/kg = 7.79 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.8 °C
Test Date: 04/29/2022
Band: NR Band n77 SRS2

DUT: Dipole 3700 MHz D3700V2; Type: D3700V2;

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.047$ S/m; $\epsilon_r = 36.283$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.15, 7.15, 7.15) @ 3700 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3700MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.65 W/kg

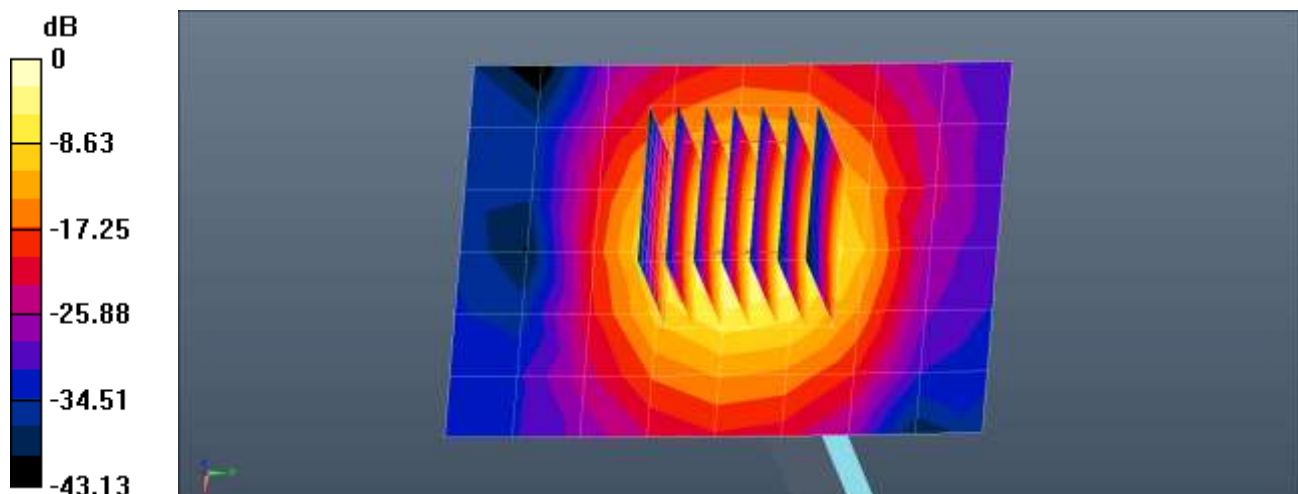
Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 49.31 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 9.76 W/kg

SAR(1 g) = 3.29 W/kg; SAR(10 g) = 1.19 W/kg

Maximum value of SAR (measured) = 6.64 W/kg



0 dB = 6.65 W/kg = 8.23 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 05/02/2022
Band: NR Band n77 SRS3

DUT: Dipole 3700 MHz D3700V2; Type: D3700V2;

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.047$ S/m; $\epsilon_r = 36.303$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.15, 7.15, 7.15) @ 3700 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3700MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.58 W/kg

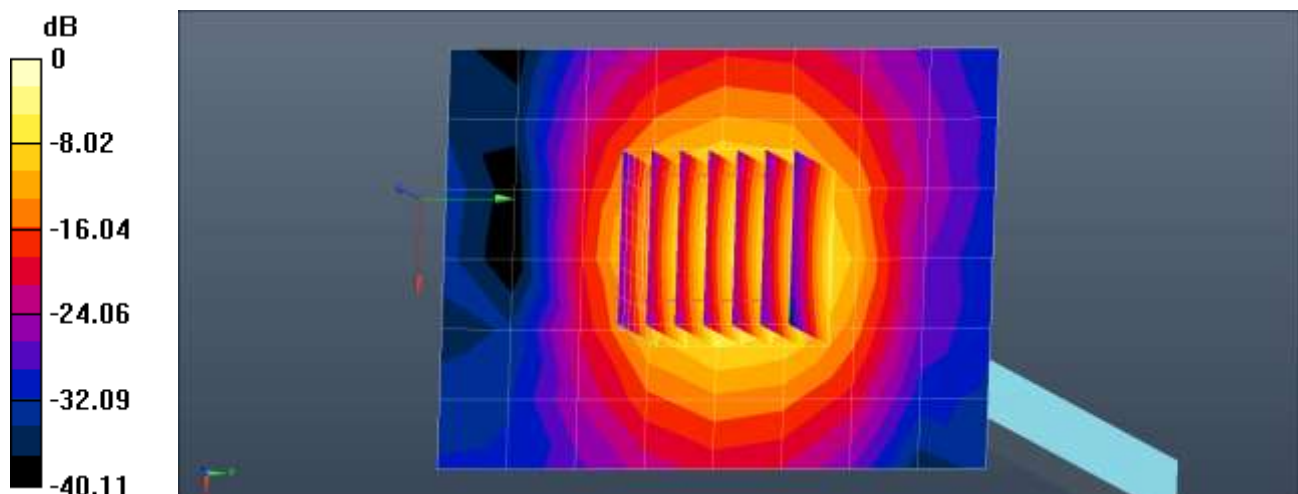
Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 49.03 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 9.67 W/kg

SAR(1 g) = 3.27 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (measured) = 6.62 W/kg



0 dB = 6.58 W/kg = 8.18 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 05/03/2022
Band: NR Band n77 SRS4

DUT: Dipole 3700 MHz D3700V2; Type: D3700V2;

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.048$ S/m; $\epsilon_r = 36.416$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(7.15, 7.15, 7.15) @ 3700 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3700MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.51 W/kg

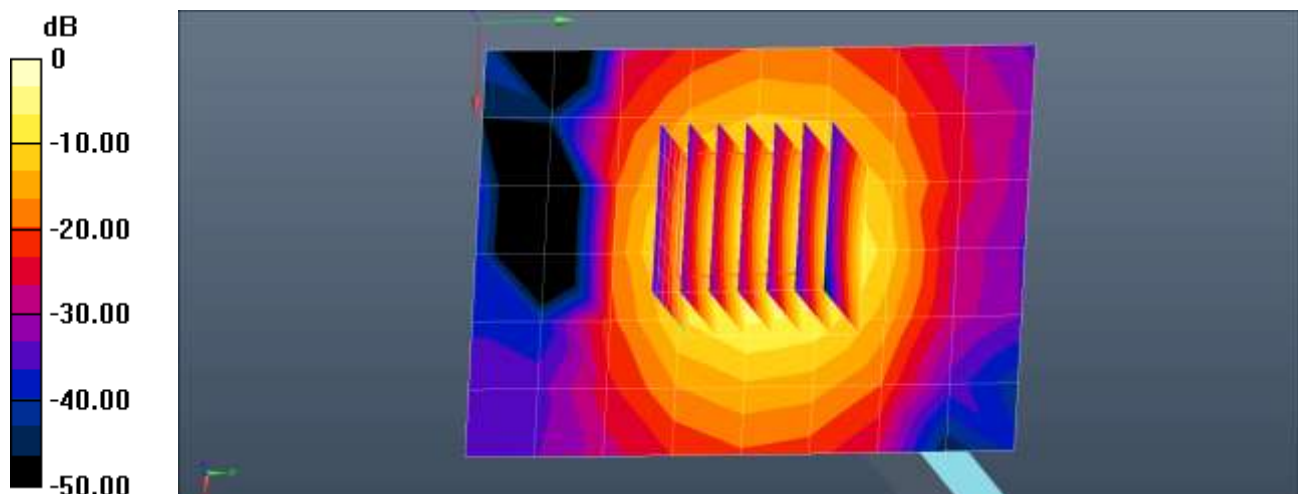
Dipole/3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 49.39 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 9.79 W/kg

SAR(1 g) = 3.27 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (measured) = 6.63 W/kg



0 dB = 6.51 W/kg = 8.14 dBW/kg

■ **Verification Data (3 900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.6 °C
Test Date: 04/21/2022
Band: NR Band n77

DUT: D3900V2 ; Type: D3900V2;

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.325 \text{ S/m}$; $\epsilon_r = 36.597$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(6.75, 6.75, 6.75) @ 3900 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3900MHz Head Verification/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 6.83 W/kg

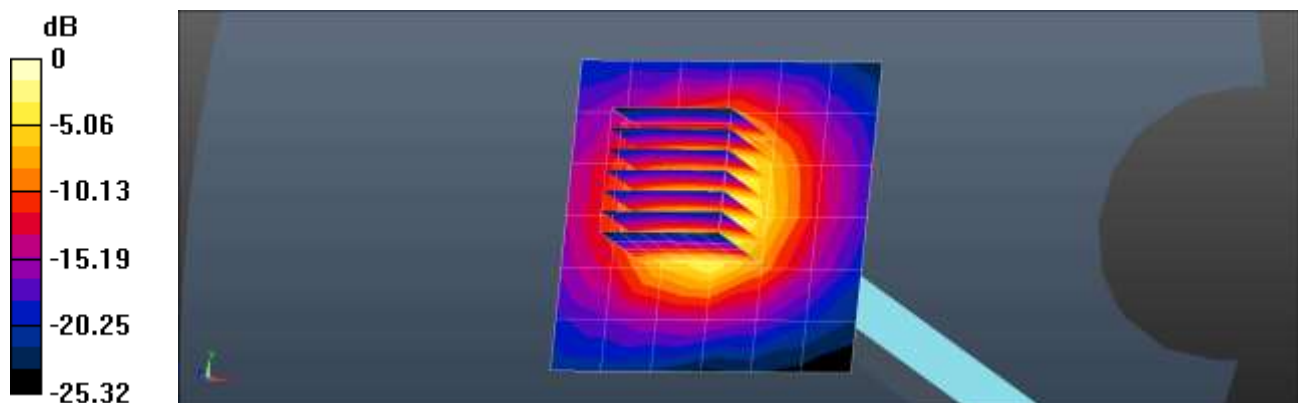
Dipole/3900MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 49.89 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 3.5 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 7.25 W/kg



0 dB = 6.83 W/kg = 8.34 dBW/kg

■ **Verification Data (3 900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.8 °C
Test Date: 04/29/2022
Band: NR Band n77 SRS2

DUT: D3900V2 ; Type: D3900V2;

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.296$ S/m; $\epsilon_r = 36.184$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(6.7, 6.7, 6.7) @ 3900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3900MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.81 W/kg

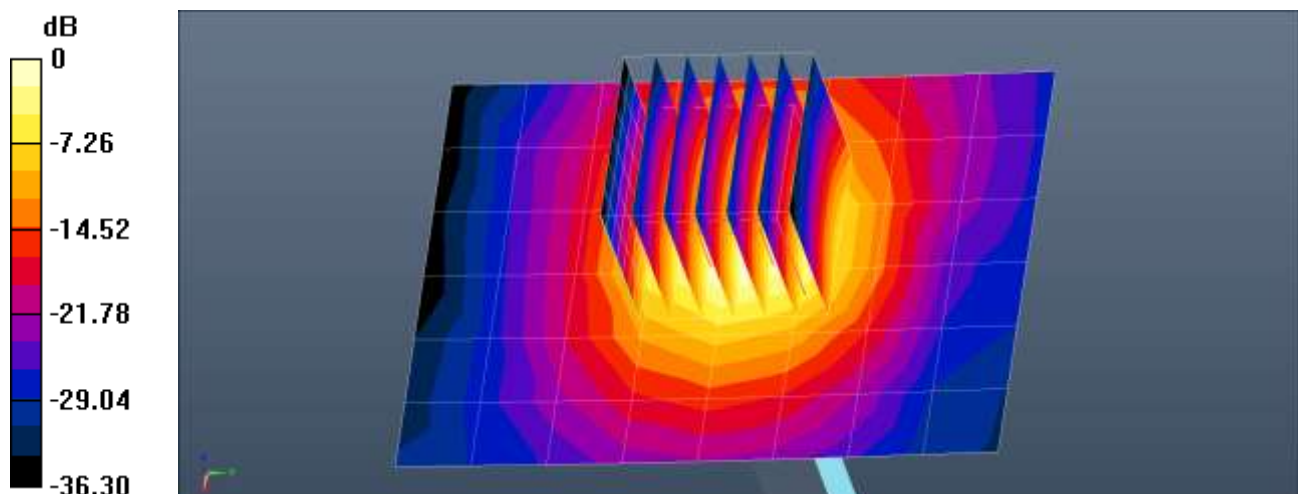
Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 41.87 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 3.48 W/kg; SAR(10 g) = 1.19 W/kg

Maximum value of SAR (measured) = 7.35 W/kg



0 dB = 4.81 W/kg = 6.83 dBW/kg

■ **Verification Data (3 900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 05/02/2022
Band: NR Band n77 SRS3

DUT: D3900V2 ; Type: D3900V2;

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.297$ S/m; $\epsilon_r = 36.204$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(6.7, 6.7, 6.7) @ 3900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3900MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.82 W/kg

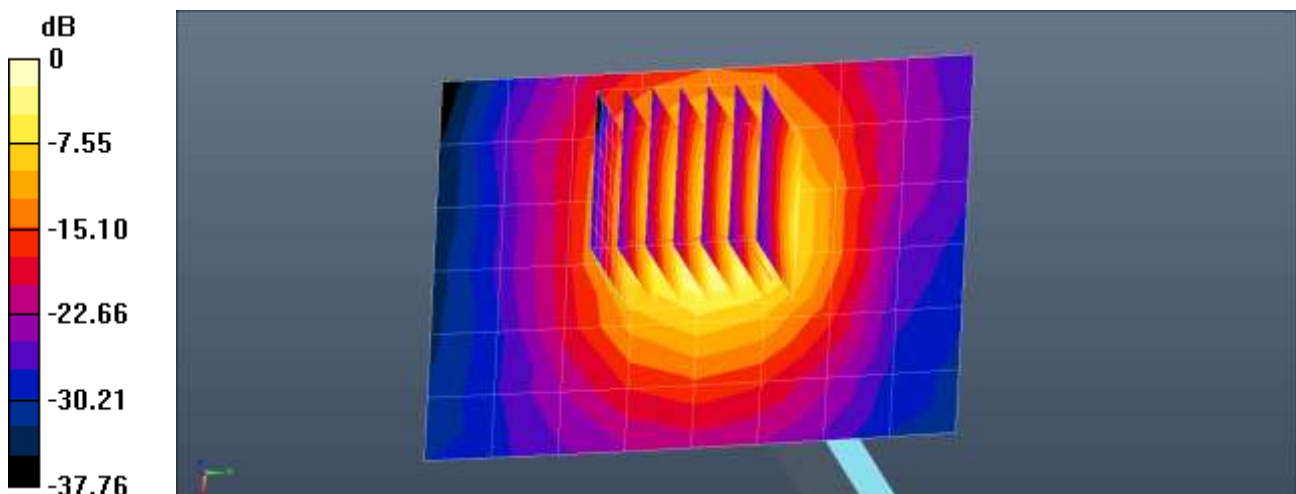
Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 41.72 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 3.47 W/kg; SAR(10 g) = 1.19 W/kg

Maximum value of SAR (measured) = 7.30 W/kg



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

■ **Verification Data (3 900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.8 °C
Test Date: 05/03/2022
Band: NR Band n77 SRS4

DUT: D3900V2 ; Type: D3900V2;

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.297$ S/m; $\epsilon_r = 36.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(6.7, 6.7, 6.7) @ 3900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3900MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.80 W/kg

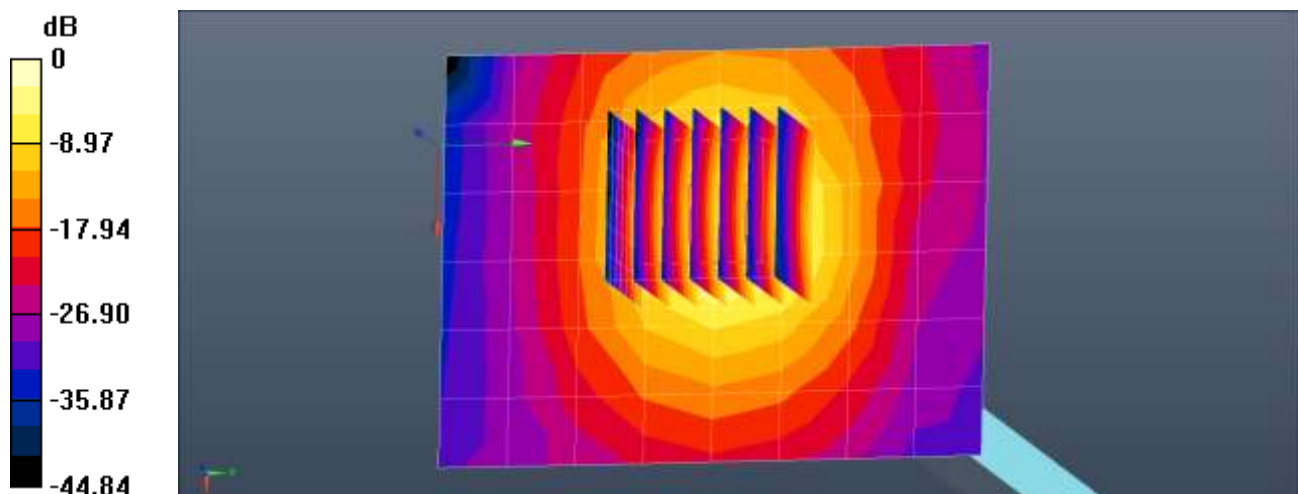
Dipole/3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 41.92 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 10.0 W/kg

SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (measured) = 7.27 W/kg



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

Extremity SAR

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.3 °C
Test Date: 04/18/2022
Band: UMTS Band 4

DUT: Dipole 1800 MHz; Type: D1800V2;

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.41 \text{ S/m}$; $\epsilon_r = 40.843$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1800 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 2.89 W/kg

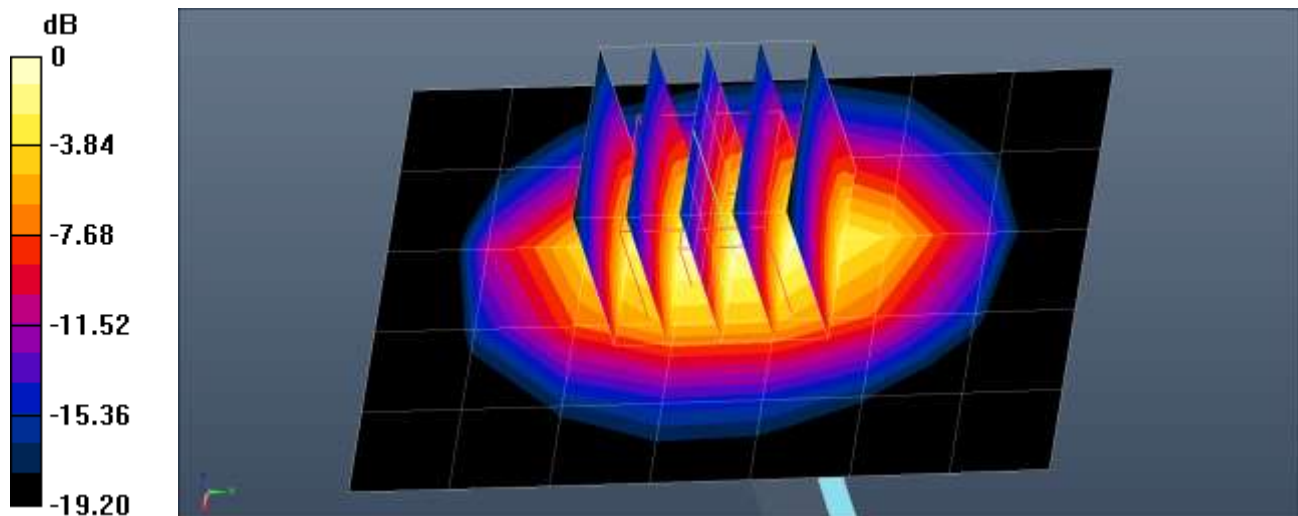
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 45.01 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.06 W/kg

SAR(1 g) = 2 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 3.29 W/kg



0 dB = 3.29 W/kg = 5.17 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.1 °C
Test Date: 04/20/2022
Band: LTE Band 66

DUT: Dipole 1800 MHz; Type: D1800V2;

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.837$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(9.18, 9.18, 9.18) @ 1800 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.89 W/kg

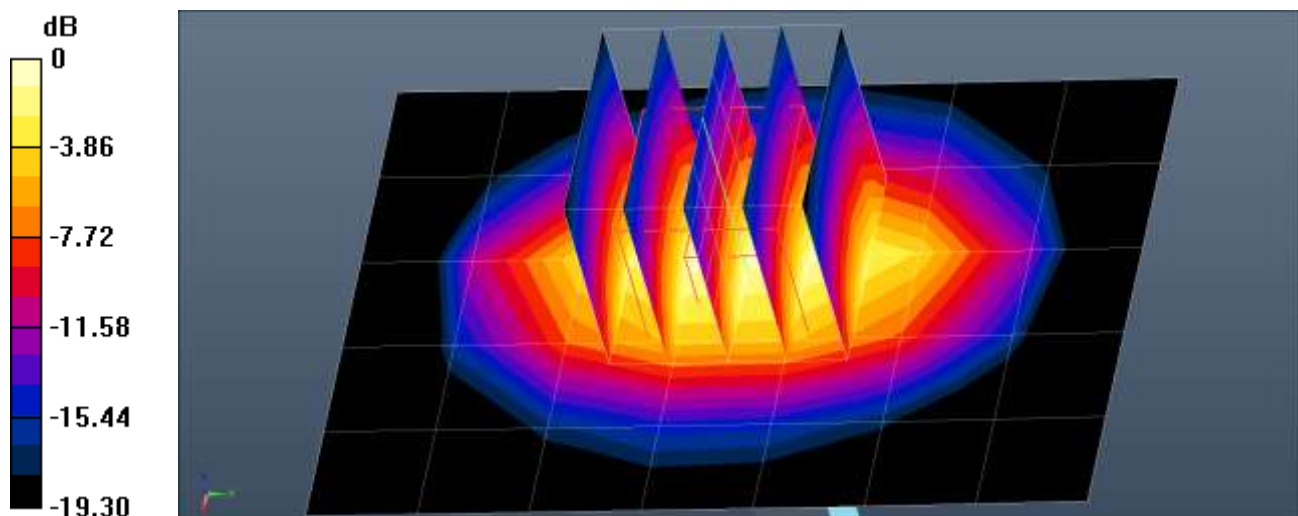
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 45.13 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 3.33 W/kg



0 dB = 3.33 W/kg = 5.22 dBW/kg

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.4 °C
Test Date: 04/25/2022
Band: NR Band n66

DUT: D1800V2; Type: D1800V2;

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.599$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(8.12, 8.12, 8.12) @ 1800 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.78 W/kg

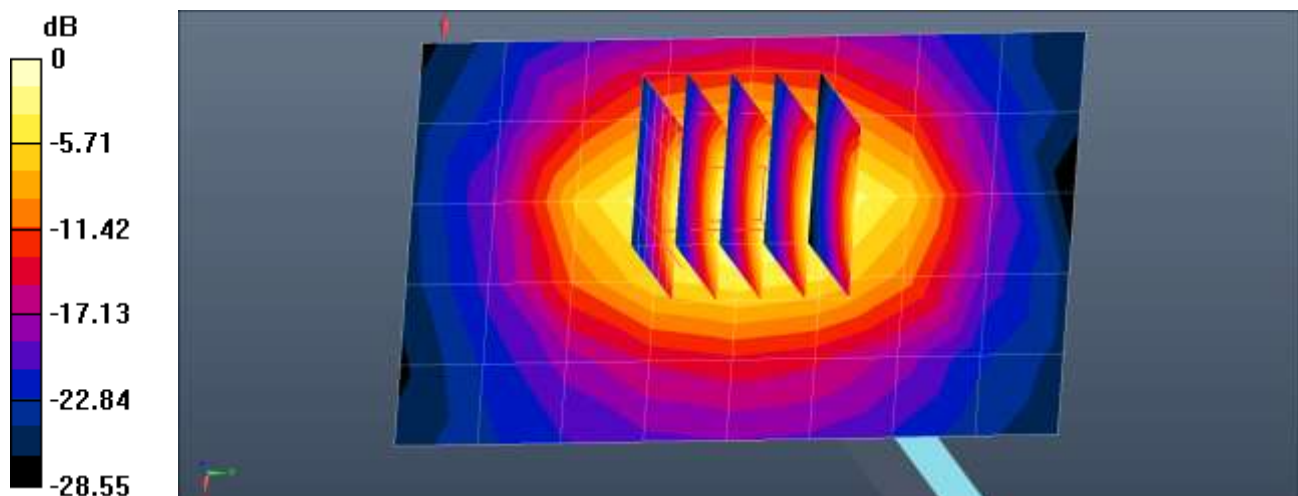
Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.79 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.42 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.78 W/kg = 4.43 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 18.6 °C
Test Date: 04/27/2022
Band: PCS CDMA/EVDO

DUT: D1900V2 ; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 40.234$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.51 W/kg

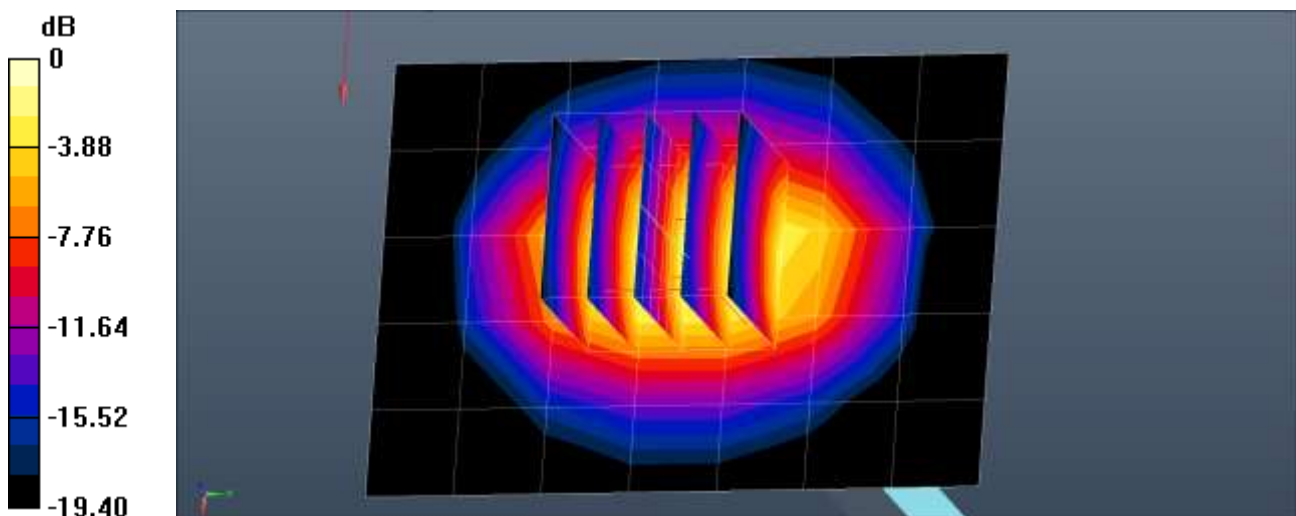
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.42 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.03 W/kg

Maximum value of SAR (measured) = 3.29 W/kg



0 dB = 3.29 W/kg = 5.17 dBW/kg

■ Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.7 °C
Test Date: 04/22/2022
Band: LTE Band 25

DUT: D1900V2 ; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 40.872$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.47 W/kg

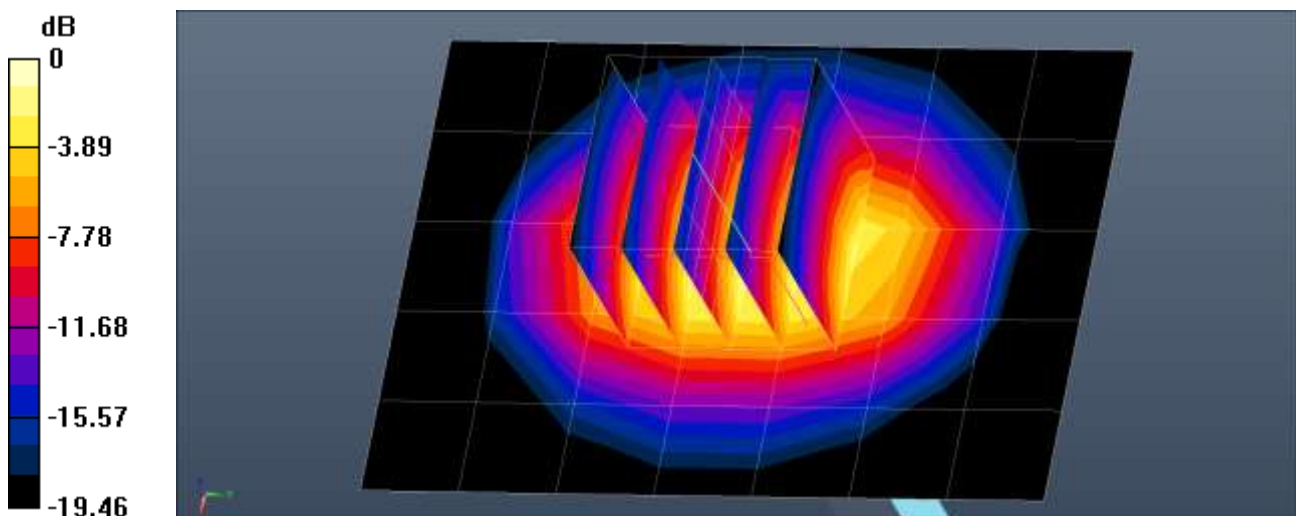
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.63 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 3.26 W/kg



0 dB = 3.26 W/kg = 5.13 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.5 °C
Test Date: 04/15/2022
Band: UMTS Band 2

DUT: D1900V2 ; Type: D1900V2;

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.416$ S/m; $\epsilon_r = 40.695$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7622; ConvF(8.71, 8.71, 8.71) @ 1900 MHz; Calibrated: 2021-11-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2021-12-01
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.49 W/kg

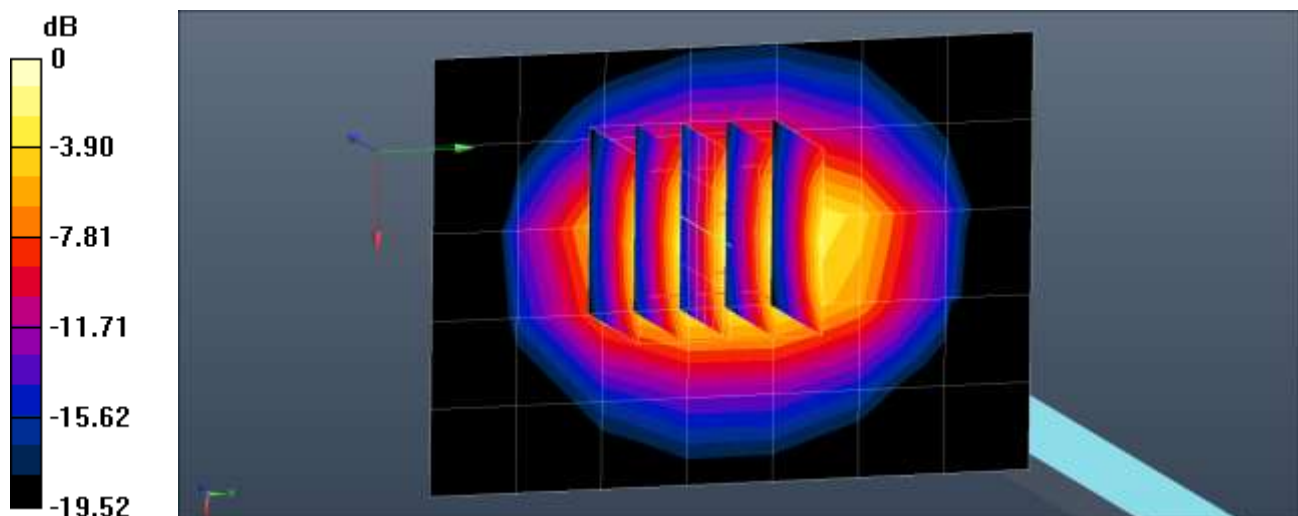
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.66 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 3.26 W/kg



0 dB = 3.26 W/kg = 5.13 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 20.8 °C
Test Date: 04/29/2022
Band: NR Band n25

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; $\sigma = 1.418$ S/m; $\epsilon_r = 41.308$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3972; ConvF(8.08, 8.08, 8.08) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn911; Calibrated: 2022-03-24
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.04 W/kg

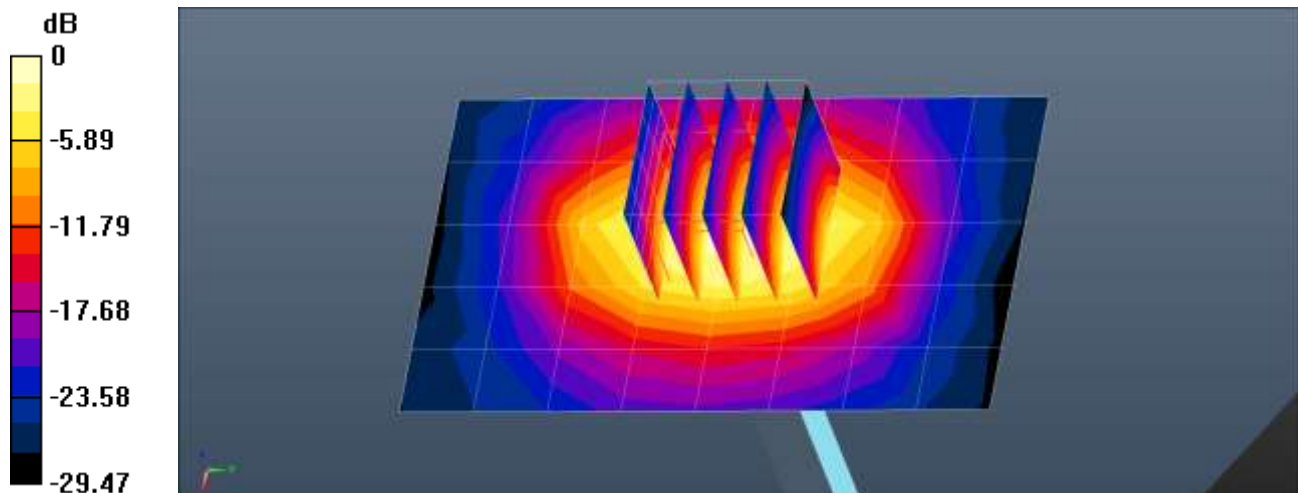
Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.17 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.08 W/kg

Maximum value of SAR (measured) = 3.22 W/kg



0 dB = 3.04 W/kg = 4.82 dBW/kg

Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 22.0 °C
Test Date: 04/20/2022
Band: LTE Band 30
Measurement Report for Device, , CW, Channel 0 (2300.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2300.0, 0	7.81	1.71	39.9

Hardware Setup

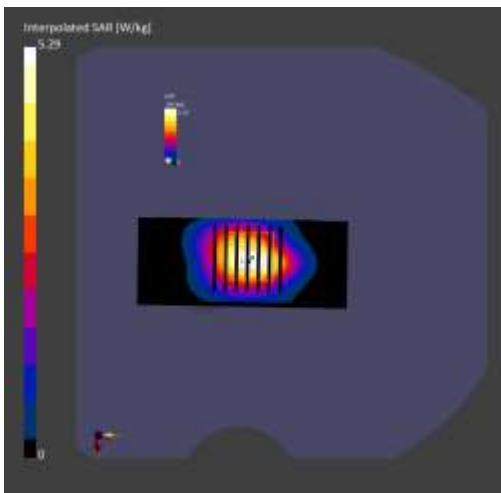
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.54	2.53
psSAR10g [W/Kg]	1.23	1.18
Power Drift [dB]	-0.00	-0.01



Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 21.9 °C
 Test Date: 04/27/2022
 Band: NR Band n30
Measurement Report for Device, , , CW, Channel 0 (2300.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,			, 0--	2300.0, 0	7.81	1.71	39.9

Hardware Setup

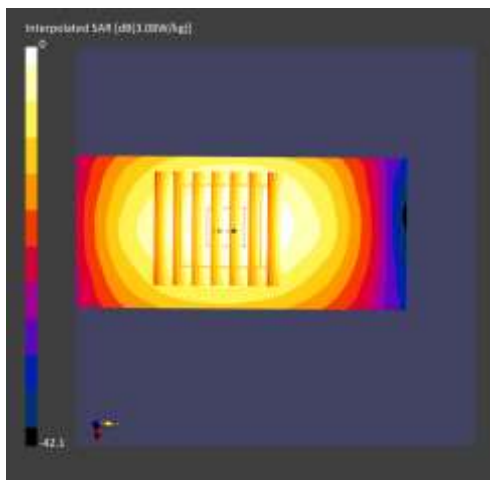
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.36	2.38
psSAR10g [W/Kg]	1.12	1.14
Power Drift [dB]	0.01	-0.01



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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 23.3 °C
Test Date: 04/19/2022
Band: LTE Band 7
Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.57	1.96	37.8

Hardware Setup

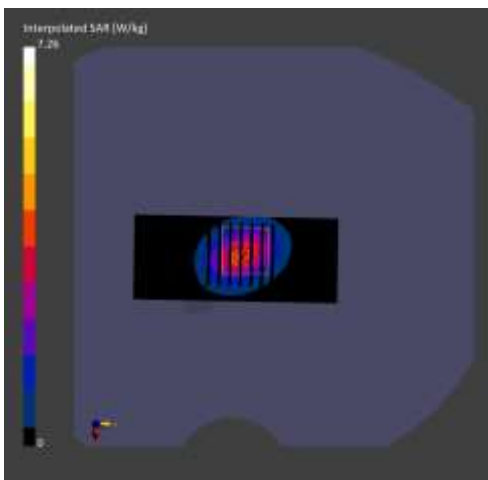
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.97	3.02
psSAR10g [W/Kg]	1.37	1.30
Power Drift [dB]	-0.02	-0.02



Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 21.3 °C
Test Date: 04/21/2022
Band: LTE Band 41 (PC2)
Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.57	1.96	38.0

Hardware Setup

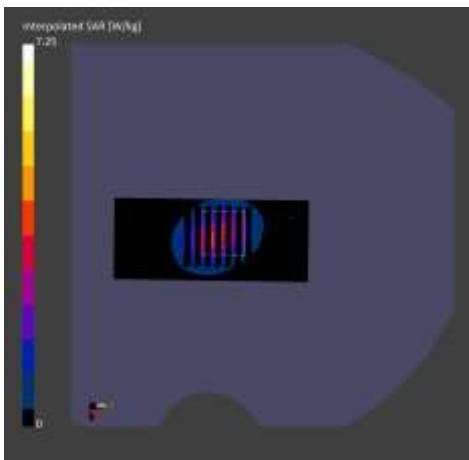
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.95	3.01
psSAR10g [W/Kg]	1.36	1.29
Power Drift [dB]	-0.01	0.02



■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temp: 21.4 °C
 Test Date: 04/26/2022
 Band: NR Band n41
Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	50.0 x 10.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.57	1.98	38.2

Hardware Setup

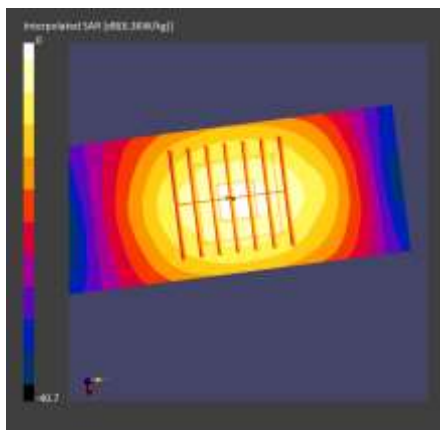
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn868, 2021-09-27

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.79	2.85
psSAR10g [W/Kg]	1.23	1.26
Power Drift [dB]	-0.01	0.03



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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 19.0 °C
Test Date: 04/29/2022
Band: NR Band n77 DoD

DUT: Dipole 3500 MHz; Type: D3500V2;

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.927$ S/m; $\epsilon_r = 36.941$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(7.25, 7.25, 7.25) @ 3500 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3500MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 5.57 W/kg

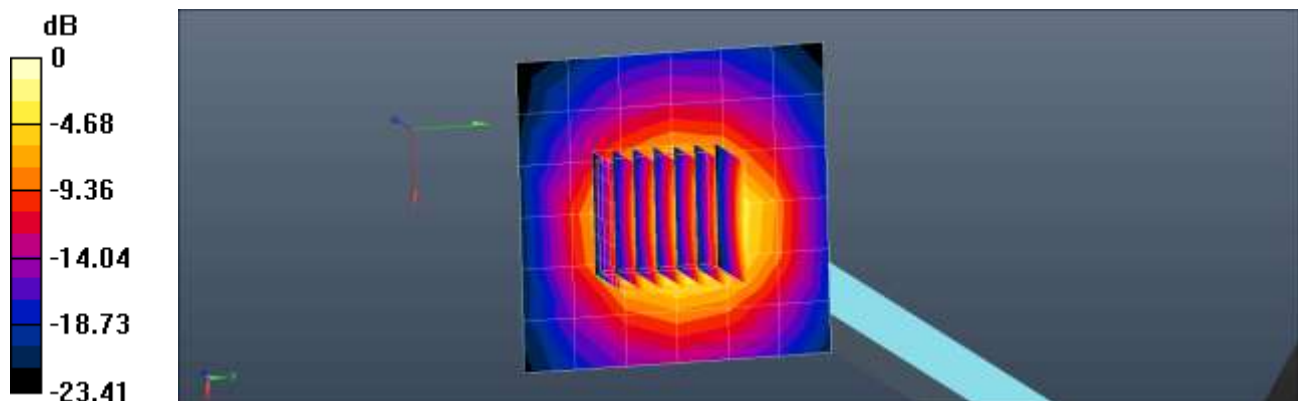
Dipole/3500MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 46.42 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 9.49 W/kg

SAR(1 g) = 3.27 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 6.64 W/kg



0 dB = 5.57 W/kg = 7.46 dBW/kg

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

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 18.9 °C
Test Date: 04/25/2022
Band: NR Band n77

DUT: D3700V2 ; Type: D3700V2;

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 3.094 \text{ S/m}$; $\epsilon_r = 36.644$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(7.15, 7.15, 7.15) @ 3700 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3700MHz Head Verification/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 5.94 W/kg

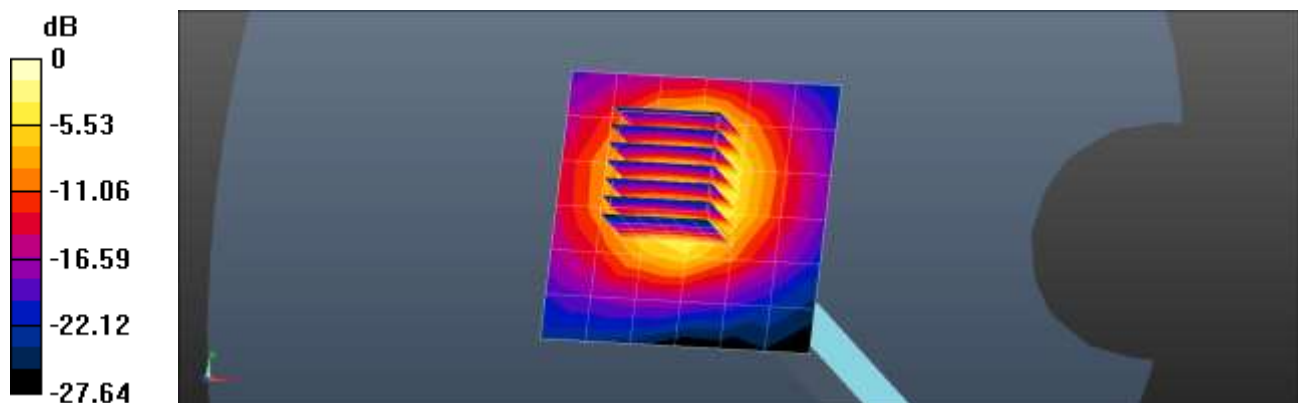
Dipole/3700MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 44.61 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 9.62 W/kg

SAR(1 g) = 3.33 W/kg; SAR(10 g) = 1.2 W/kg

Maximum value of SAR (measured) = 6.83 W/kg



0 dB = 5.94 W/kg = 7.74 dBW/kg

■ Verification Data (3 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temp: 18.9 °C
Test Date: 04/25/2022
Band: NR Band n77
DUT: D3900V2; Type: D3900V2;

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.343$ S/m; $\epsilon_r = 36.546$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(6.75, 6.75, 6.75) @ 3900 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/3900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.87 W/kg

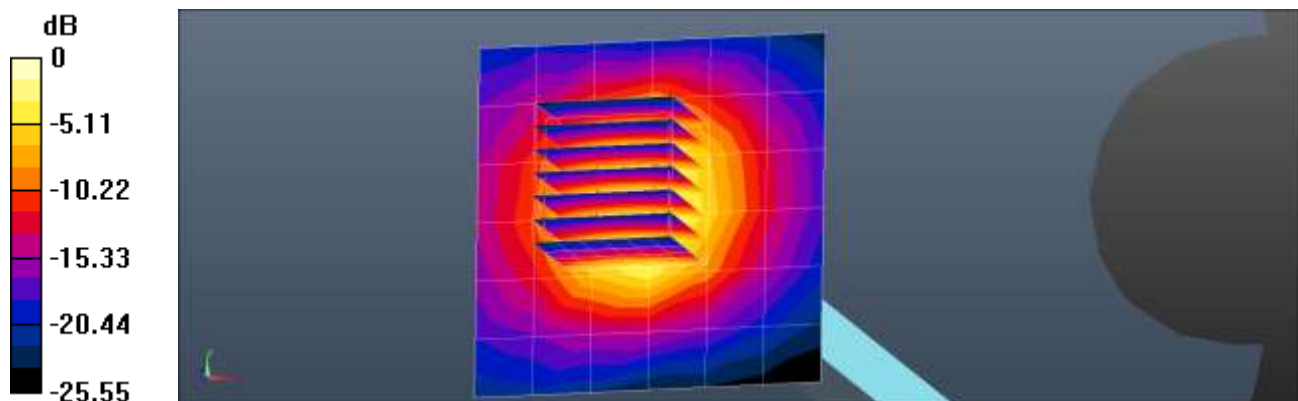
Dipole/3900MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.53 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 3.51 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 7.33 W/kg



0 dB = 6.87 W/kg = 8.37 dBW/kg

Appendix D. – SAR Tissue Characterization

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

Ingredients (% by weight)	Frequency (MHz)											
	750		835		1 750		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.

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
7681	EX3DV4	Head	750	1014	2021-12-27	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
7681	EX3DV4	Head	750	1014	2021-12-27	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
3972	EX3DV4	Head	750	1014	2021-07-02	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
3972	EX3DV4	Head	835	4d165	2021-08-16	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
7309	EX3DV4	Head	835	4d165	2021-08-16	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
7681	EX3DV4	Head	835	4d165	2022-01-04	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
7622	EX3DV4	Head	1750	2d015	2021-12-08	40.1	1.41	PASS	PASS	PASS	GMSK	PASS	N/A
7622	EX3DV4	Head	1750	2d015	2021-12-08	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
7622	EX3DV4	Head	1900	5d032	2022-02-08	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
7622	EX3DV4	Head	1900	5d032	2022-02-08	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
3076	EX3DV4	Head	2300	1010	2021-08-26	40.1	1.42	PASS	PASS	PASS	TDD	PASS	NA
3968	EX3DV4	Head	2300	1010	2021-10-08	40.1	1.42	PASS	PASS	PASS	TDD	PASS	NA
7702	EX3DV4	Head	2300	1010	2021-20-17	40.1	1.42	PASS	PASS	PASS	TDD	PASS	NA
7702	EX3DV4	Head	2450	965	2021-20-17	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
3903	EX3DV4	Head	2450	965	2022-04-14	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
7679	EX3DV4	Head	2450	965	2021-10-29	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
3903	EX3DV4	Head	2600	1106	2022-04-14	39.1	1.94	PASS	PASS	PASS	N/A	N/A	N/A
3903	EX3DV4	Head	2600	1106	2022-04-14	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
7702	EX3DV4	Head	2600	1106	2022-02-18	39.1	1.94	PASS	PASS	PASS	N/A	N/A	N/A
7655	EX3DV4	Head	3500	1132	2021-06-04	37.5	3.13	PASS	PASS	PASS	TDD	PASS	NA
7622	EX3DV4	Head	3500	1132	2022-02-18	37.5	3.13	PASS	PASS	PASS	N/A	N/A	N/A
7655	EX3DV4	Head	3700	1105	2021-12-20	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
7702	EX3DV4	Head	3700	1105	2022-02-18	39.1	1.94	PASS	PASS	PASS	N/A	N/A	N/A
7622	EX3DV4	Head	3700	1105	2022-02-18	39.1	1.94	PASS	PASS	PASS	N/A	N/A	N/A
7702	EX3DV4	Head	3900	1019	2022-02-18	39.1	1.94	PASS	PASS	PASS	N/A	N/A	N/A
7622	EX3DV4	Head	3900	1019	2022-02-18	39.1	1.94	PASS	PASS	PASS	N/A	N/A	N/A
7702	EX3DV4	Head	5250	1107	2022-02-21	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
7702	EX3DV4	Head	5600	1107	2022-02-21	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
7702	EX3DV4	Head	5750	1107	2022-02-21	35.6	5.24	PASS	PASS	PASS	OFDM	N/A	PASS
7622	EX3DV4	Head	5250	1107	2022-02-18	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
7622	EX3DV4	Head	5600	1107	2022-02-18	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
7622	EX3DV4	Head	5750	1107	2022-02-18	35.6	5.24	PASS	PASS	PASS	OFDM	N/A	PASS

SAR System Validation Summary 1g

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
7622	EX3DV4	Head	1750	2d015	2021-12-08	40.1	1.41	PASS	PASS	PASS	GMSK	PASS	N/A
7622	EX3DV4	Head	1750	2d015	2021-12-08	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
3972	EX3DV4	Head	1750	2d015	2021-12-08	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
7622	EX3DV4	Head	1900	5d032	2022-02-08	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
7622	EX3DV4	Head	1900	5d032	2022-02-08	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
3972	EX3DV4	Head	1900	5d032	2022-02-08	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
3903	EX3DV4	Head	2300	1010	2022-04-14	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
3903	EX3DV4	Head	2600	1106	2022-04-14	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
7702	EX3DV4	Head	3500	1132	2022-02-18	37.5	3.13	PASS	PASS	PASS	NA	N/A	NA
7702	EX3DV4	Head	3700	1105	2022-02-18	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
7702	EX3DV4	Head	3900	1019	2022-02-18	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
7622	EX3DV4	Head	5250	1107	2022-02-18	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
7622	EX3DV4	Head	5600	1107	2022-02-18	35.3	5.05	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.