

Appendix B. – SAR Test Plots

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.3 °C
Liquid Temperature: 21.2 °C
Test Date: 12/19/2024
Plot No.: A1
Band: GSM850 Head SAR

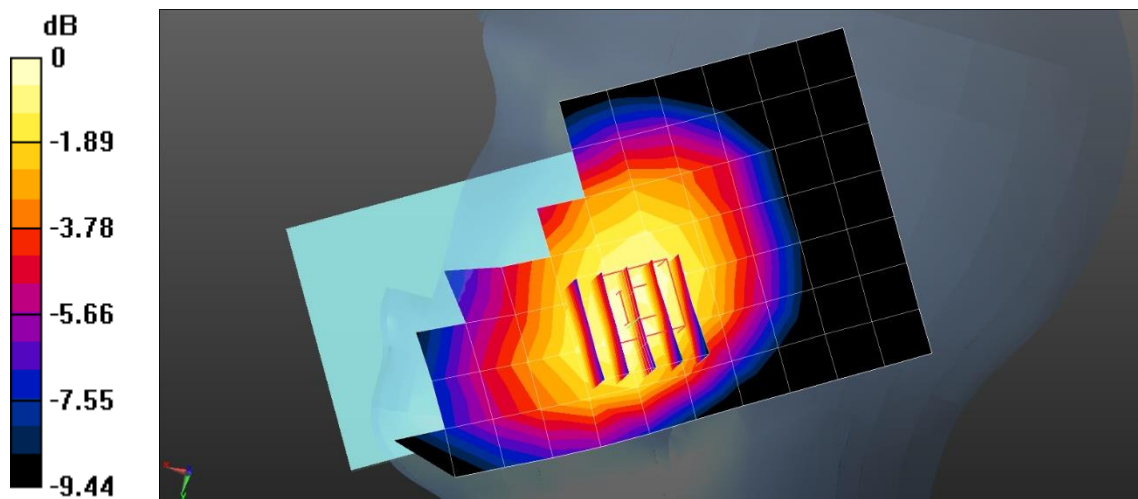
Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.07491
 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 42.294$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(8.67, 9.79, 9.49) @ 836.6 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4);

GSM850 4Tx Head Right Touch 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.337 W/kg

GSM850 4Tx Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 4.412 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 0.372 W/kg
SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.230 W/kg
 Maximum value of SAR (measured) = 0.342 W/kg



0 dB = 0.342 W/kg = -4.66 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 19.6 °C
Liquid Temperature: 19.5 °C
Test Date: 12/30/2024
Plot No.: A2
Band: GSM1900 Head SAR

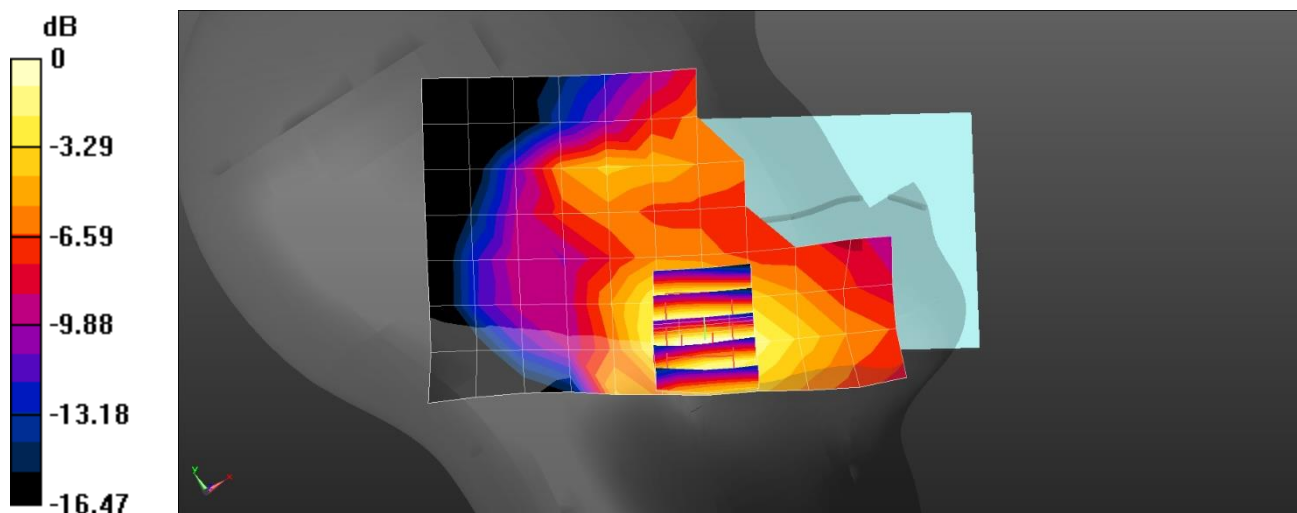
Communication System: UID 0, GSM 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.425 \text{ S/m}$; $\epsilon_r = 39.23$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1880 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM1900 Head Left Touch 661ch/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.319 W/kg

GSM1900 Head Left Touch 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.180 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 0.375 W/kg
SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.144 W/kg
 Maximum value of SAR (measured) = 0.331 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.5 °C
Liquid Temperature: 21.4 °C
Test Date: 12/09/2024
Plot No.: A3
Band: UMTS Band 5 Head SAR

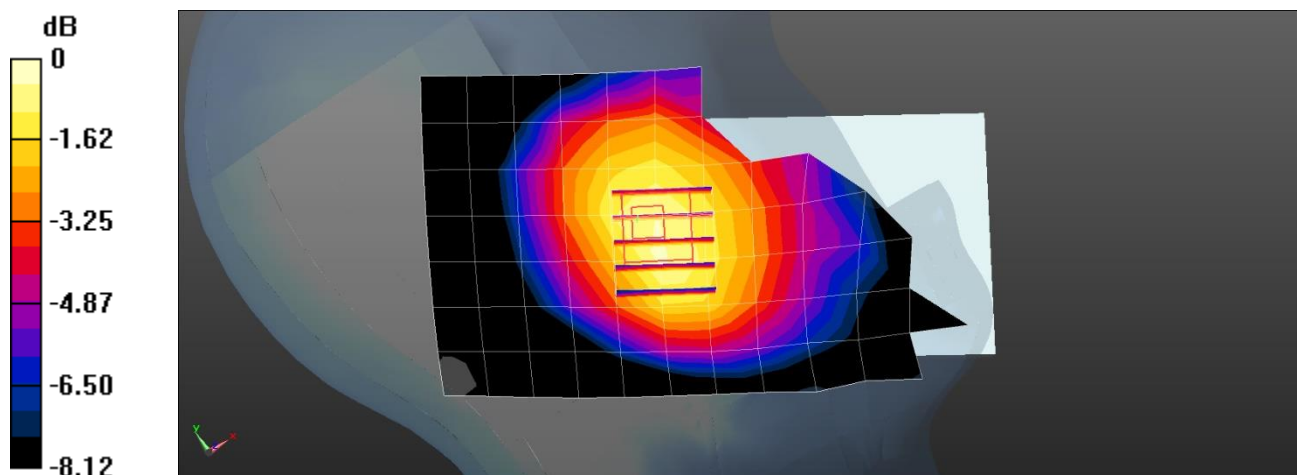
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 40.314$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.88, 8.59, 8.4) @ 836.6 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 5 Head Left Touch 4183ch/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.192 W/kg

UMTS Band 5 Head Left Touch 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.377 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 0.223 W/kg
SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.139 W/kg
 Maximum value of SAR (measured) = 0.210 W/kg



0 dB = 0.210 W/kg = -6.78 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 22.4 °C
Liquid Temperature: 22.3 °C
Test Date: 12/07/2024
Plot No.: A4
Band: UMTS Band 4 Head SAR

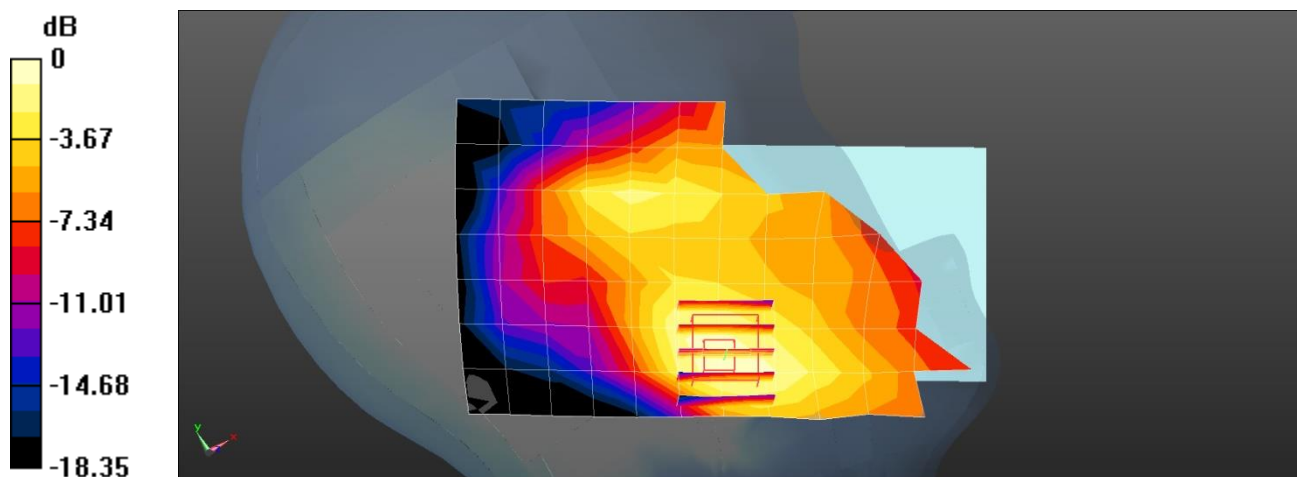
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 40.496$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.17, 7.77, 7.85) @ 1732.4 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 4 Head Left Touch 1412ch/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.108 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 3.404 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 0.126 W/kg
SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.056 W/kg
 Maximum value of SAR (measured) = 0.111 W/kg



0 dB = 0.111 W/kg = -9.55 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.7 °C
Liquid Temperature: 20.6 °C
Test Date: 12/10/2024
Plot No.: A5
Band: UMTS Band 2 Head SAR

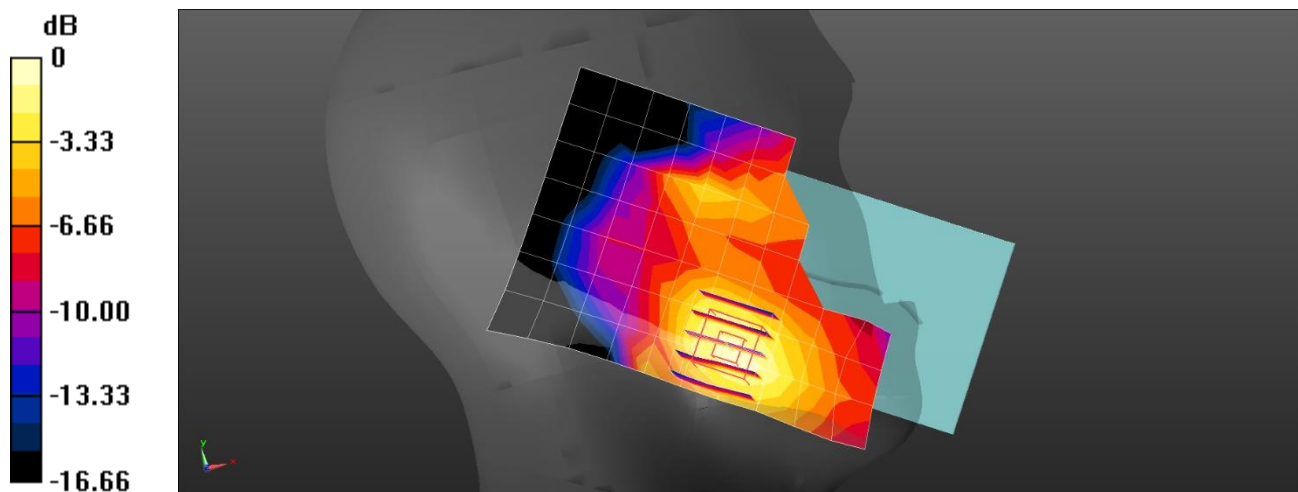
Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1.95434
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ S/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1880 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 2 Head Left Touch 9400ch/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.392 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 = 5.486 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 0.462 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.179 W/kg
 Maximum value of SAR (measured) = 0.408 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.9 °C
Liquid Temperature: 21.8 °C
Test Date: 12/18/2024
Plot No.: A6
Band: LTE FDD Band 2 Head SAR

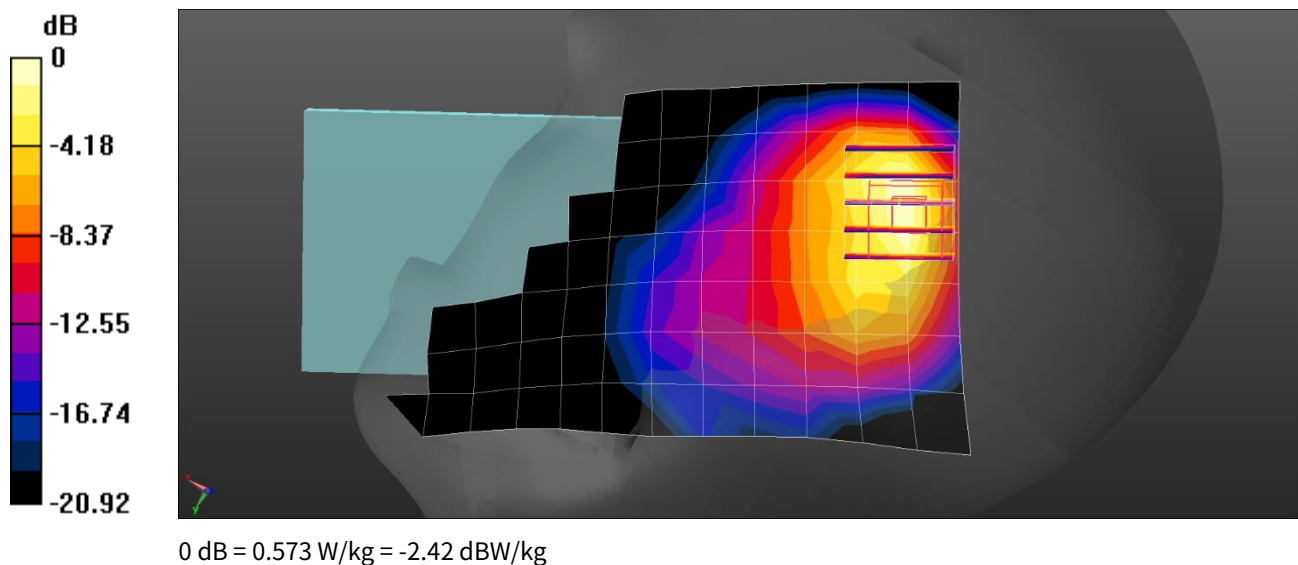
Communication System: UID 10297 - AAE, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 1880 MHz; Duty Cycle: 1:3.80978
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.433 \text{ S/m}$; $\epsilon_r = 40.068$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1880 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 Head Right Tilt QPSK 20MHz 50RB 0offset 18900ch/Area Scan (8x14x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.559 W/kg

LTE Band 2 Head Right Tilt QPSK 20MHz 50RB 0offset 18900ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12.09 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 0.729 W/kg
SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.184 W/kg
 Maximum value of SAR (measured) = 0.573 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 12/11/2024
Plot No.: A7
Band: LTE FDD Band 7 Head SAR
Measurement Report for Device, CHEEK, Band 7, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 20850 (2510.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 7	LTE-FDD, 10169-CAF	2510.000, 20850	6.64	1.89	39.3

Hardware Setup

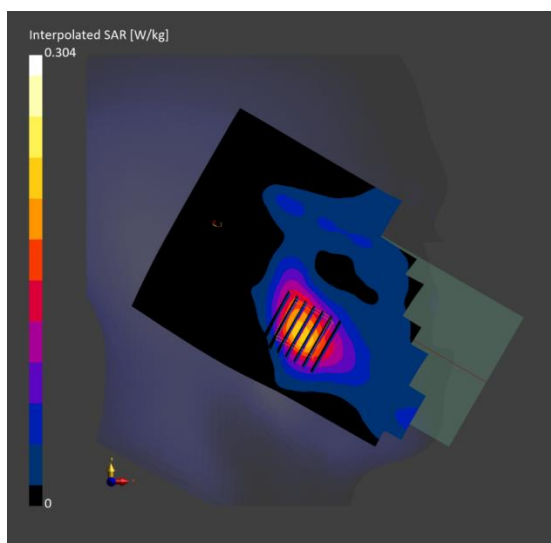
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.177	0.185
psSAR10g [W/Kg]	0.091	0.102
Power Drift [dB]	0.09	0.00



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/06/2024
Plot No.: A8
Band: LTE FDD Band 12 Head SAR
Measurement Report for Device, CHEEK, Band 12, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 23095 (707.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 12	LTE-FDD, 10175-CAH	707.500, 23095	8.91	0.860	43.0

Hardware Setup

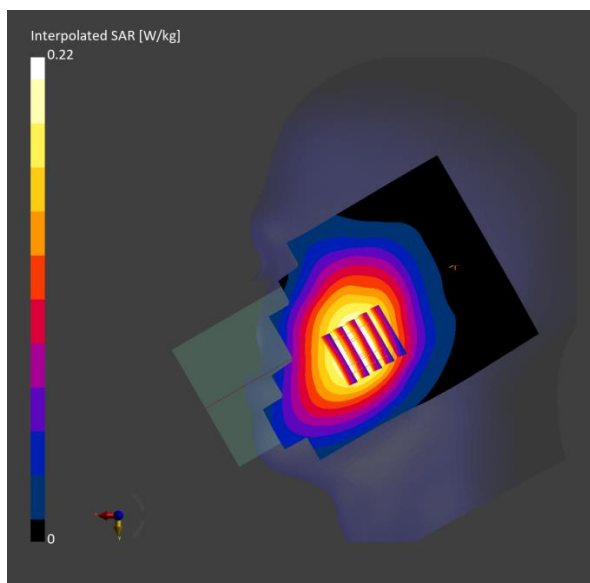
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.174	0.187
psSAR10g [W/Kg]	0.122	0.152
Power Drift [dB]	-0.19	-0.19



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/09/2024
Plot No.: A9
Band: LTE FDD Band 13 Head SAR
Measurement Report for Device, CHEEK, Band 13, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
AntennaCfg: SISO, Channel 23230 (782.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 13	LTE-FDD, 10175-CAH	782.000, 23230	8.91	0.928	42.0

Hardware Setup

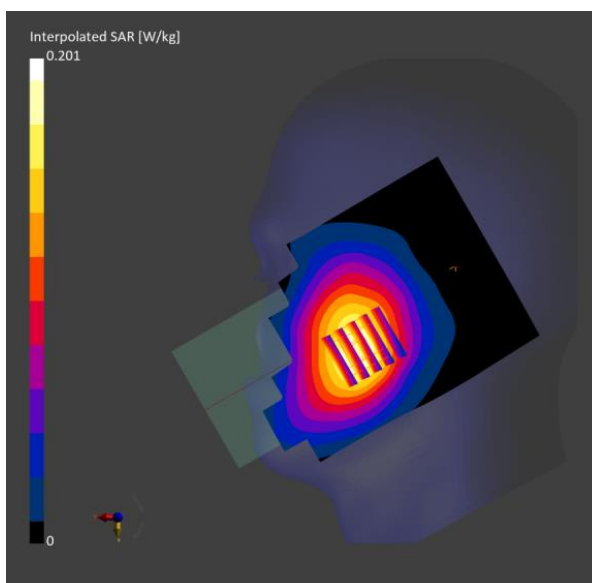
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.162	0.168
psSAR10g [W/Kg]	0.112	0.138
Power Drift [dB]	-0.15	-0.17



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.2 °C
Liquid Temperature: 20.1 °C
Test Date: 12/10/2024
Plot No.: A10
Band: LTE FDD Band 14 Head SAR
Measurement Report for Device, CHEEK, Band 14, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
AntennaCfg: SISO, Channel 23330 (793.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 14	LTE-FDD, 10175-CAH	793.000, 23330	8.91	0.939	41.8

Hardware Setup

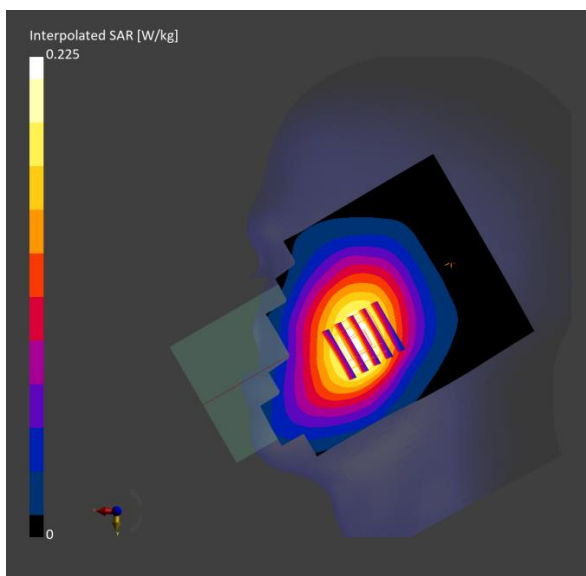
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.176	0.186
psSAR10g [W/Kg]	0.121	0.149
Power Drift [dB]	-0.17	-0.19



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 19.3 °C
Liquid Temperature: 19.2 °C
Test Date: 12/12/2024
Plot No.: A11
Band: LTE FDD Band 25 Head SAR
Measurement Report for Device, CHEEK, Band 25, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 26365 (1882.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 25	LTE-FDD, 10169-CAF	1882.500, 26365	7.35	1.39	40.5

Hardware Setup

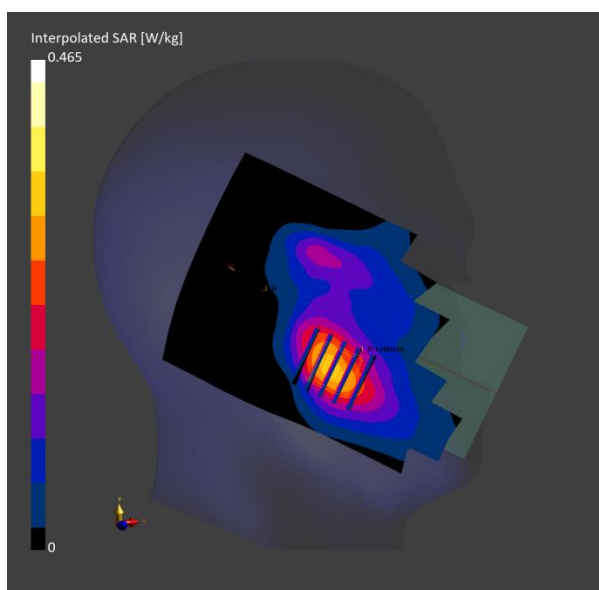
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.273	0.321
psSAR10g [W/Kg]	0.160	0.206
Power Drift [dB]	-0.19	0.10



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 12/05/2024
Plot No.: A12
Band: LTE FDD Band 26 Head SAR
Measurement Report for Device, CHEEK, Band 26, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 26865 (831.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, Head HSL	CHEEK, 0.00	Band 26	LTE-FDD, 10181-CAF	831.500, 26865	8.75	0.919	41.3

Hardware Setup

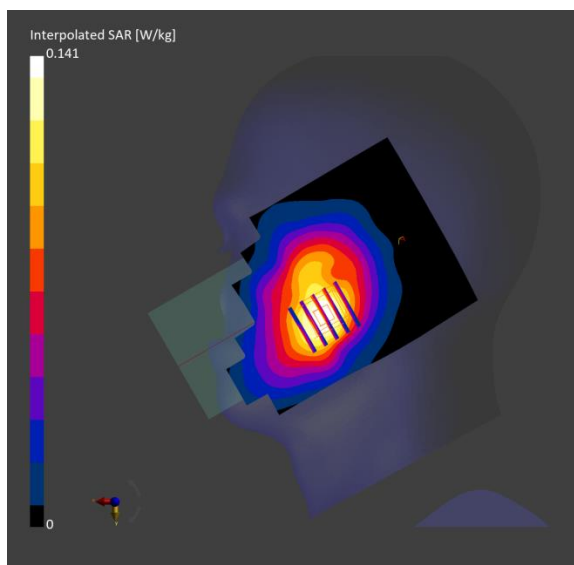
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.106	0.106
psSAR10g [W/Kg]	0.071	0.082
Power Drift [dB]	0.12	0.10



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 12/04/2024
Plot No.: A13
Band: LTE FDD Band 30 Head SAR
Measurement Report for Device, CHEEK, Band 30, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
AntennaCfg: SISO, Channel 27710 (2310.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 30	LTE-FDD, 10175-CAH	2310.000, 27710	7.02	1.79	39.4

Hardware Setup

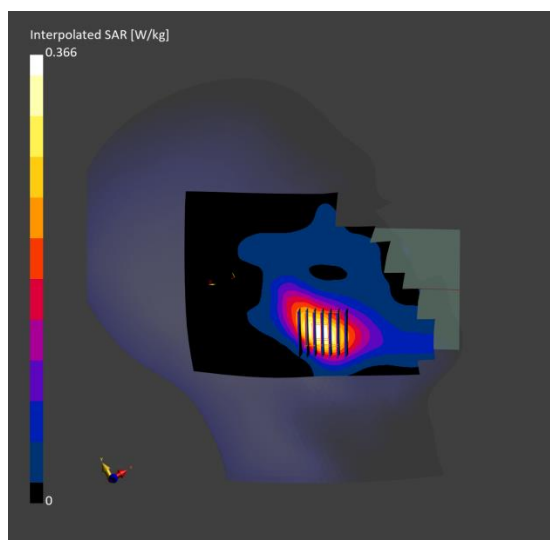
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.241	0.251
psSAR10g [W/Kg]	0.126	0.146
Power Drift [dB]	-0.18	-0.16



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/17/2024
Plot No.: A14
Band: LTE TDD Band 41 Head SAR
Measurement Report for Device, CHEEK, Band 41, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 40620 (2593.000 MHz))

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Band 41	LTE-TDD, 10435-AAG	2593.000, 40620	6.64	1.99	39.2

Hardware Setup

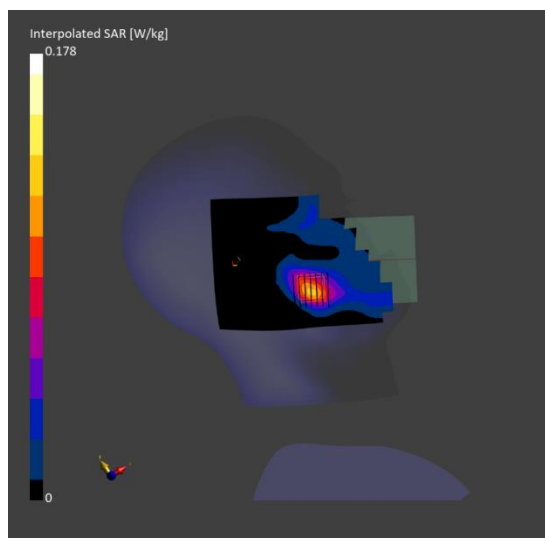
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) -	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.095	0.101
psSAR10g [W/Kg]	0.048	0.054
Power Drift [dB]	0.07	0.19



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.8 °C
Liquid Temperature: 20.7 °C
Test Date: 12/20/2024
Plot No.: A15
Band: LTE TDD Band 48 Head SAR

Measurement Report for Device, CHEEK, Band 48, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)
AntennaCfg:SISO, Channel 56640 (3690.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 48	LTE-TDD, 10172-CAH	3690.000, 56640	6.33	3.00	36.3

Hardware Setup

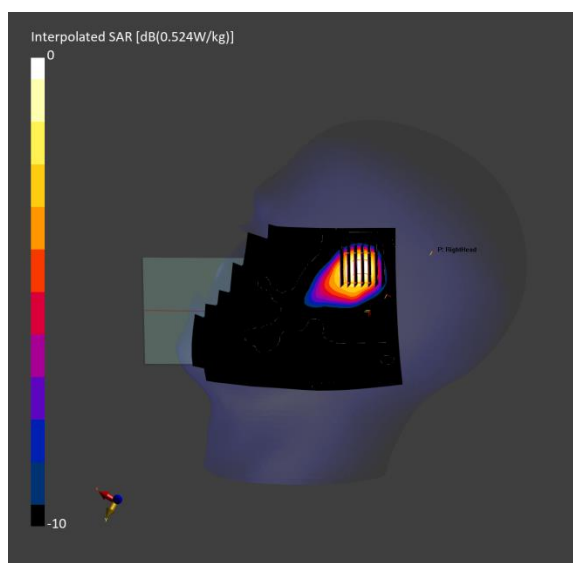
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.381	0.405
psSAR10g [W/Kg]	0.166	0.169
Power Drift [dB]	-0.16	-0.18



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.9 °C
Liquid Temperature: 20.8 °C
Test Date: 12/17/2024
Plot No.: A16
Band: LTE FDD Band 66 Head SAR

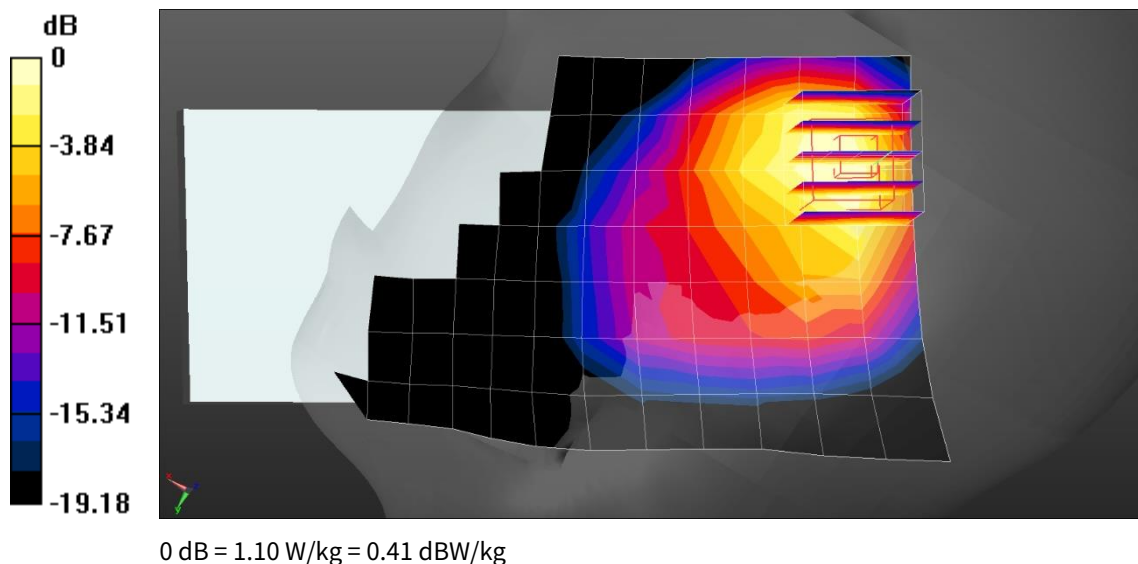
Communication System: UID 0, LTE 66 (0); Frequency: 1720 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 39.763$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1720 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 Head Right Touch QPSK 20MHz 50RB 49offset 132072ch/Area Scan
(8x15x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.18 W/kg

LTE Band 66 Head Right Touch QPSK 20MHz 50RB 49offset 132072ch/Zoom Scan (5x5x7)/Cube
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 15.48 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.719 W/kg; SAR(10 g) = 0.408 W/kg
 Maximum value of SAR (measured) = 1.10 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.4 °C
Liquid Temperature: 20.3 °C
Test Date: 12/03/2024
Plot No.: A17
Band: LTE FDD Band 71 Head SAR
Measurement Report for Device, CHEEK, Band 71, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 133297 (680.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Band 71	LTE-FDD, 10169-CAF	680.500, 133297	8.91	0.889	42.0

Hardware Setup

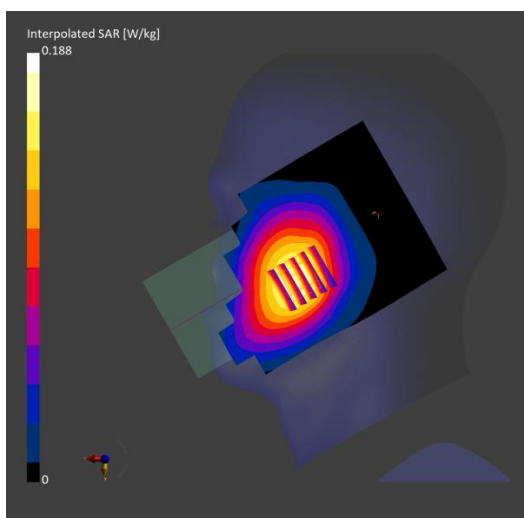
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.150	0.160
psSAR10g [W/Kg]	0.106	0.132
Power Drift [dB]	0.09	0.13



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 12/26/2024
Plot No.: A18
Band: NR FDD Band n2 Head SAR

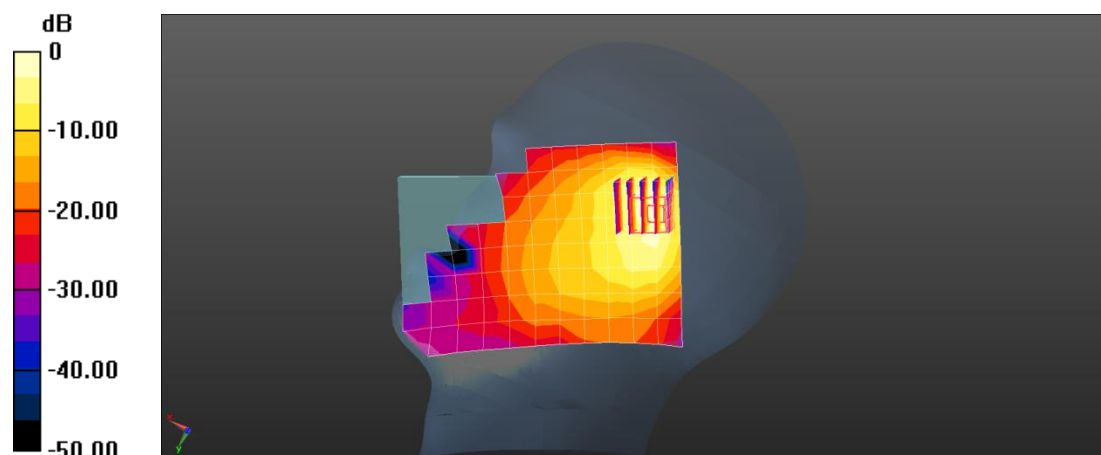
Communication System: UID 10934 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1880 MHz; Duty Cycle: 1:3.55877
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.434$ S/m; $\epsilon_r = 40.052$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.1, 8.02, 7.77) @ 1880 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n2 Head Right Tilt DFT-s QPSK 40MHz 1RB 108offset 376000ch/Area Scan (9x15x1):
 Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 0.733 W/kg

NR Band n2 Head Right Tilt DFT-s QPSK 40MHz 1RB 108offset 376000ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 18.85 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 0.884 W/kg
SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.245 W/kg
 Maximum value of SAR (measured) = 0.692 W/kg



0 dB = 0.733 W/kg = -1.35 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 22.6 °C
Liquid Temperature: 22.5 °C
Test Date: 12/06/2024
Plot No.: A19
Band: NR FDD Band n5 Head SAR

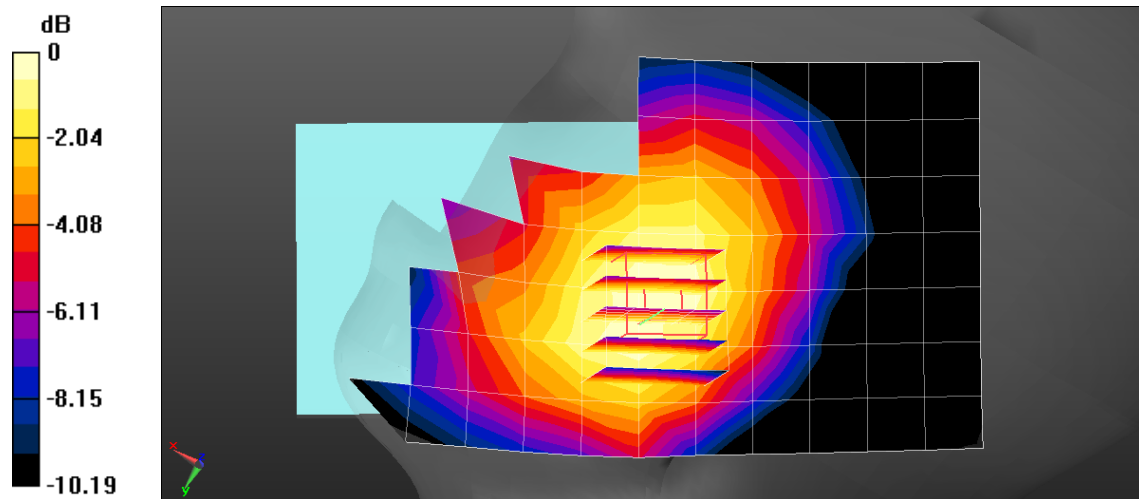
Communication System: UID 0, NR n5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 43.13$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.18, 9.32, 9.14) @ 836.5 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band 5 Head Right Touch DFT-s QPSK 20MHz 50RB 28offset 167300ch/Area Scan (8x13x1):
 Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.201 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 = 2.831 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 0.219 W/kg
SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.136 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
Ambient Temperature: 21.8 °C
Liquid Temperature: 21.7 °C
Test Date: 12/11/2024
Plot No.: A20
Band: NR FDD Band n25 Head SAR

Communication System: UID 10934 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1880 MHz; Duty Cycle: 1:3.55877
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 40.753$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

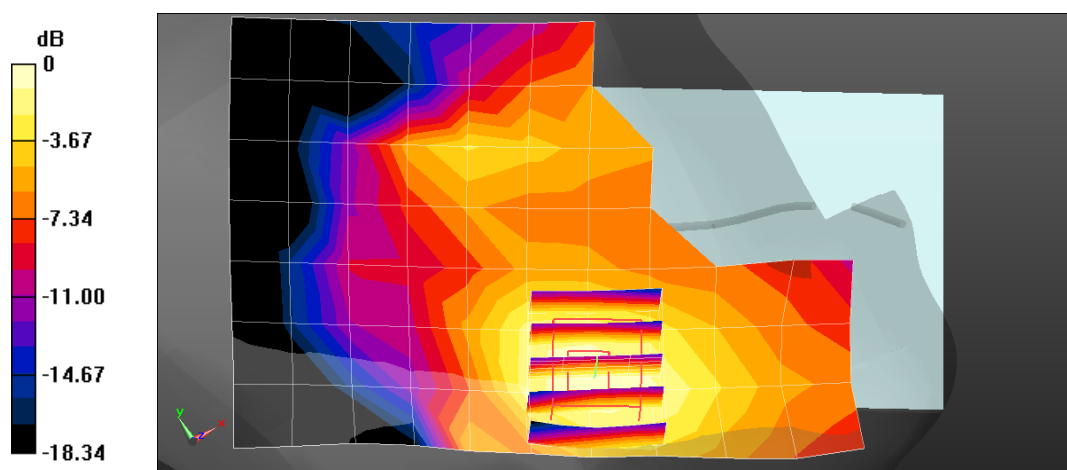
- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1880 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band 25 Head Left Touch DFT-s QPSK 40MHz 1RB 108offset 376000ch/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.503 W/kg

NR Band 25 Head Left Touch DFT-s QPSK 40MHz 1RB 108offset 376000ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 5.007 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 0.569 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.215 W/kg
 Maximum value of SAR (measured) = 0.480 W/kg



0 dB = 0.480 W/kg = -3.19 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 23.2 °C
Liquid Temperature: 23.1 °C
Test Date: 01/02/2025
Plot No.: A21
Band: NR FDD Band n30 Head SAR

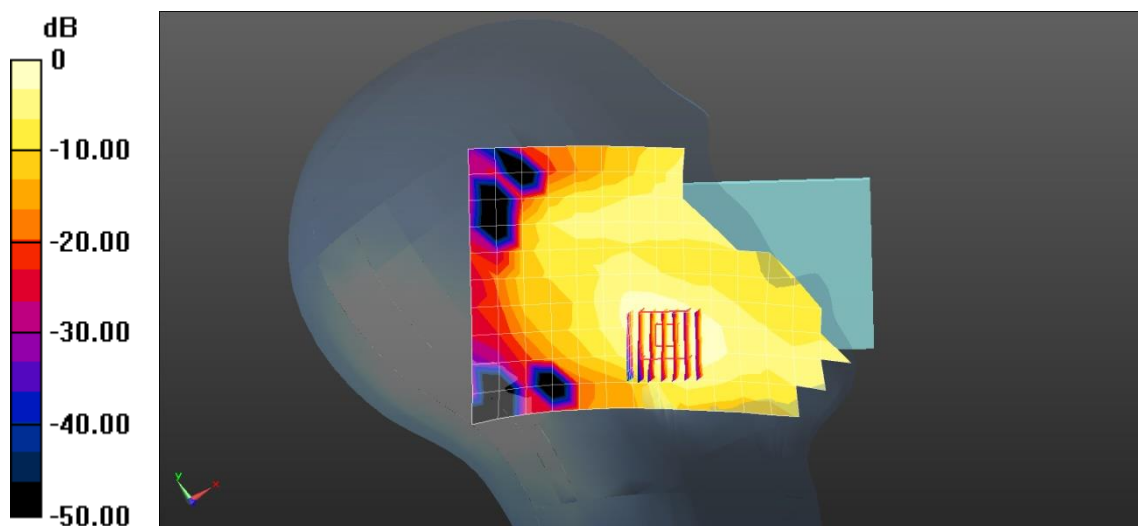
Communication System: UID 10929 - AAD, 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz);
 Frequency: 2305 MHz; Duty Cycle: 1:3.56205
 Medium parameters used (interpolated): $f = 2305$ MHz; $\sigma = 1.692$ S/m; $\epsilon_r = 39.053$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.82, 7.7, 7.46) @ 2305 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n30 Head Left Touch DFT-s QPSK 10MHz 1RB 26offset 462000ch/Area Scan
(11x18x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.232 W/kg

NR Band n30 Head Left Touch DFT-s QPSK 10MHz 1RB 26offset 462000ch/Zoom Scan (7x7x7)/Cube
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 3.089 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 0.294 W/kg
SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.105 W/kg
 Maximum value of SAR (measured) = 0.253 W/kg



0 dB = 0.232 W/kg = -6.35 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.8 °C
Liquid Temperature: 21.7 °C
Test Date: 12/11/2024
Plot No.: A22
Band: NR TDD Band n41 Head SAR

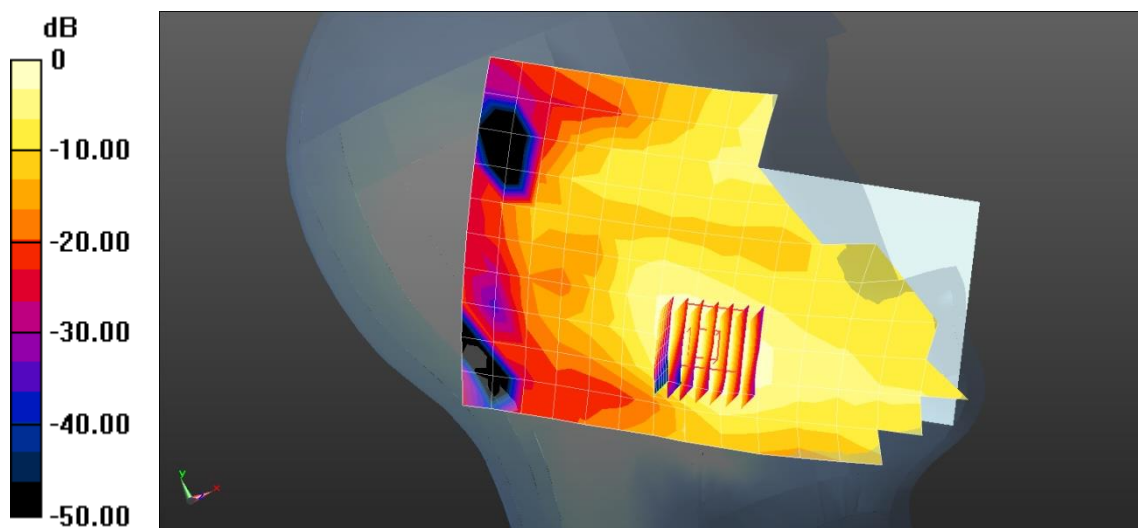
Communication System: UID 10803 - AAF, 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz); Frequency: 2592.99 MHz; Duty Cycle: 1:6.21441
 Medium parameters used (interpolated): $f = 2592.99$ MHz; $\sigma = 2.023$ S/m; $\epsilon_r = 38.066$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.55, 7.4, 7.17) @ 2592.99 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4);

NR Band n41 Head Left Touch CP QPSK 100MHz 1RB 1offset 518598ch/Area Scan
 (11x18x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.311 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 = 2.897 V/m; Power Drift = -0.15 dB
 Peak SAR (extrapolated) = 0.418 W/kg
SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.142 W/kg
 Maximum value of SAR (measured) = 0.357 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

Test Laboratory: HCT CO.,LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.7 °C
Liquid Temperature: 20.6 °C
Test Date: 12/10/2024
Plot No.: A23
Band: NR TDD Band n48 Head SAR

Communication System: UID 10913 - AAD, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz);
 Frequency: 3680.01 MHz; Duty Cycle: 1:3.83796
 Medium parameters used (interpolated): $f = 3680.01$ MHz; $\sigma = 3.066$ S/m; $\epsilon_r = 37.619$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

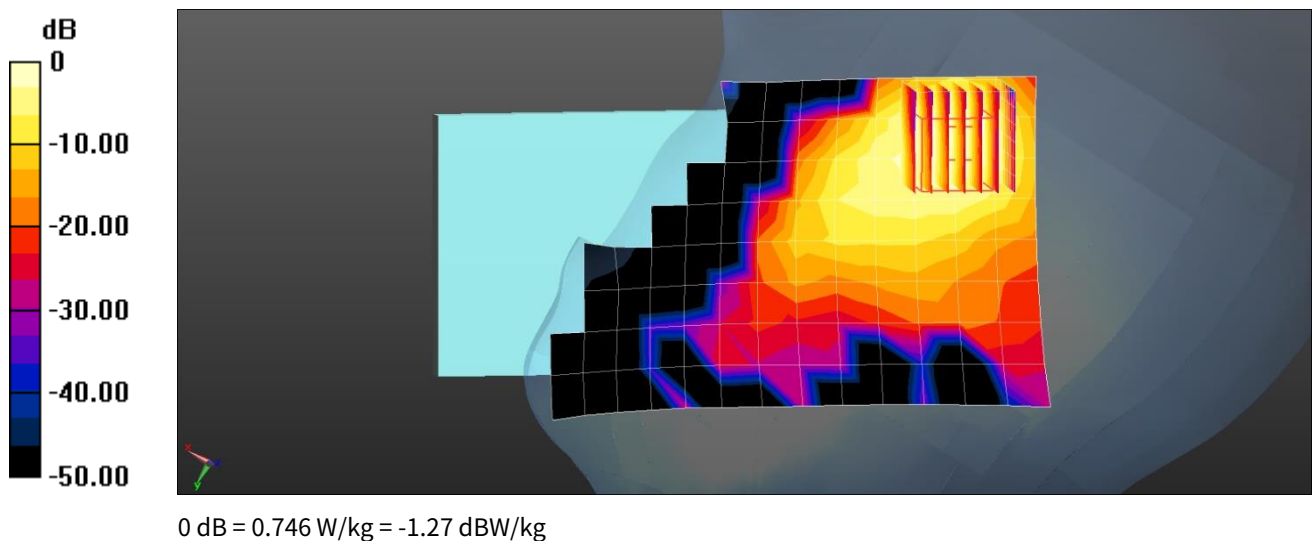
- Probe: EX3DV4 - SN3903; ConvF(6.43, 6.68, 6.49) @ 3680.01 MHz; Calibrated: 2024-07-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (3);

NR Band n48 Head Right Touch DFT-s QPSK 40MHz 50RB 0offset 645334ch/Area Scan (9x16x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm
 Maximum value of SAR (measured) = 0.746 W/kg

NR Band n48 Head Right Touch DFT-s QPSK 40MHz 50RB 0offset 645334ch/Zoom Scan (7x7x8)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm
 Reference Value = 4.229 V/m; Power Drift = -0.10 dB
 Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.195 W/kg
 Maximum value of SAR (measured) = 0.819 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 22.0 °C
Liquid Temperature: 21.9 °C
Test Date: 12/16/2024
Plot No.: A24
Band: NR FDD Band n66 Head SAR

Communication System: UID 0, n66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.349 \text{ S/m}$; $\epsilon_r = 41.263$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

DASY5 Configuration:

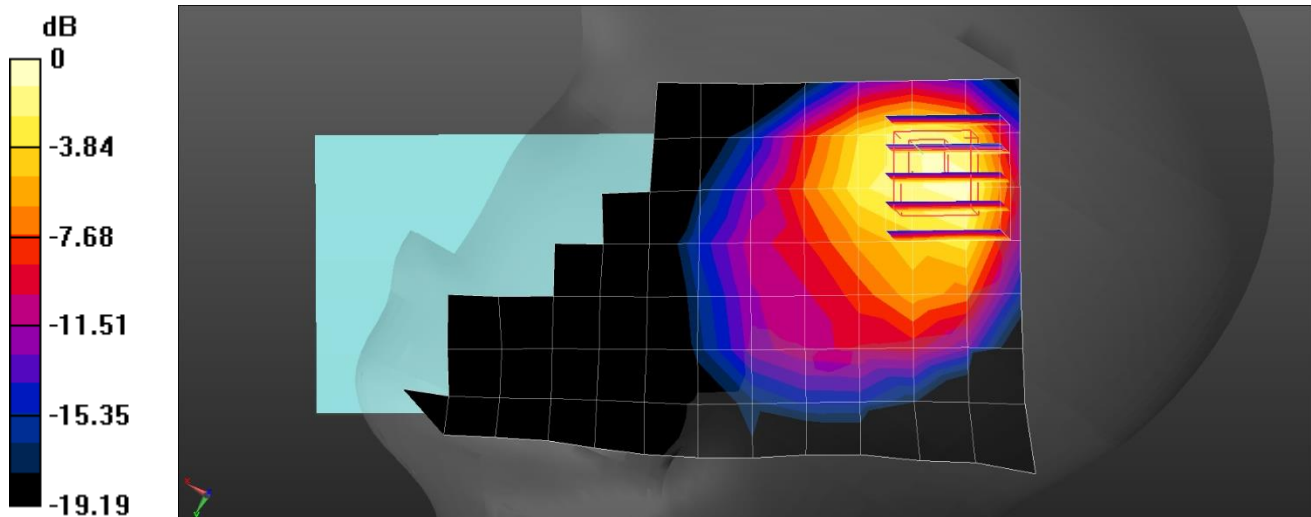
- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1745 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n66 Head Right Touch CP QPSK 40MHz 1RB 1offset 349000ch/Area Scan (8x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.895 W/kg

NR Band n66 Head Right Touch CP QPSK 40MHz 1RB 1offset 349000ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 14.64 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.358 W/kg
 Maximum value of SAR (measured) = 1.01 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.3 °C
Liquid Temperature: 21.2 °C
Test Date: 12/19/2024
Plot No.: A25
Band: NR FDD Band n71 Head SAR

Communication System: UID 0, NR n71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 42.078$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

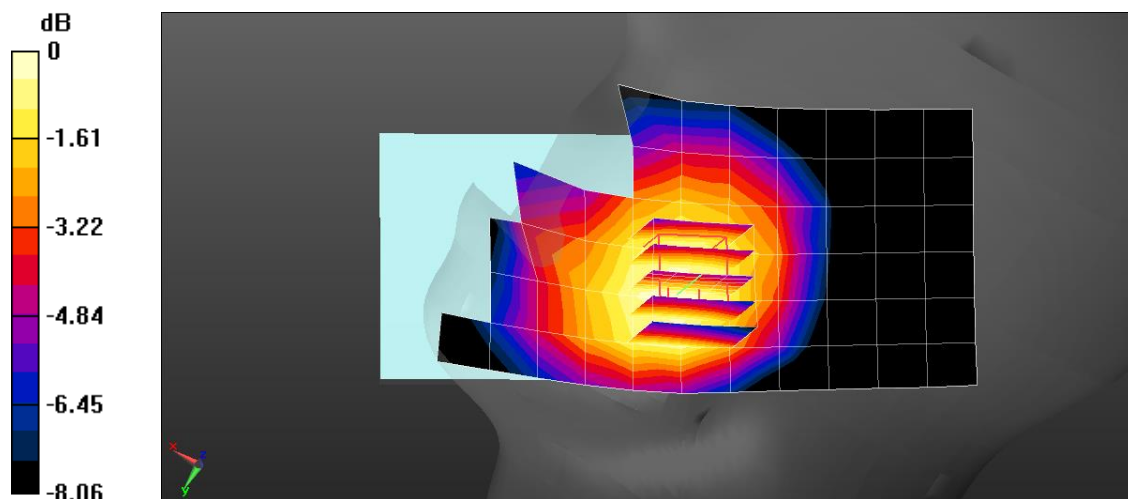
- Probe: EX3DV4 - SN7655; ConvF(9.12, 9.7, 9.5) @ 680.5 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band 71 Head Right Touch DFT-s QPSK 20MHz 1RB 53offset 136100ch/Area Scan (7x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 0.173 W/kg

NR Band 71 Head Right Touch DFT-s QPSK 20MHz 1RB 53offset 136100ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 0.8130 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.184 W/kg
SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.124 W/kg
 Maximum value of SAR (measured) = 0.175 W/kg



0 dB = 0.175 W/kg = -7.57 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 12/12/2024
Plot No.: A26
Band: NR TDD Band n77 Head SAR

Communication System: UID 10803 - AAF, 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz); Frequency: 3750 MHz; Duty Cycle: 1:6.21441
 Medium parameters used: $f = 3750$ MHz; $\sigma = 3.132$ S/m; $\epsilon_r = 36.216$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY5 Configuration:

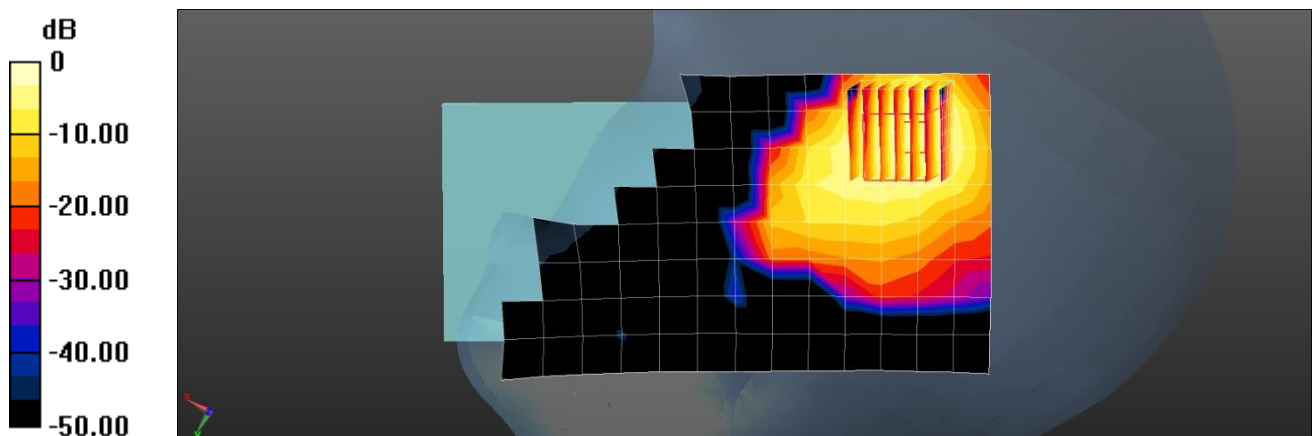
- Probe: EX3DV4 - SN3903; ConvF(6.43, 6.68, 6.49) @ 3750 MHz; Calibrated: 2024-07-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4);

NR Band n77 Head Right Touch CP QPSK 100MHz 1RB 1offset 650000ch/Area Scan (9x16x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm
 Maximum value of SAR (measured) = 0.684 W/kg

NR Band n77 Head Right Touch CP QPSK 100MHz 1RB 1offset 650000ch/Zoom Scan (7x7x8)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm
 Reference Value = 3.967 V/m; Power Drift = -0.16 dB
 Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.185 W/kg
 Maximum value of SAR (measured) = 0.743 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.1 °C
Liquid Temperature: 21.0 °C
Test Date: 12/07/2024
Plot No.: A27
Band: 2.4 GHz WLAN Head SAR
Measurement Report for Device, CHEEK, WLAN 2.4GHz, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps), Channel 6 (2437.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.000, 6	6.75	1.76	39.8

Hardware Setup

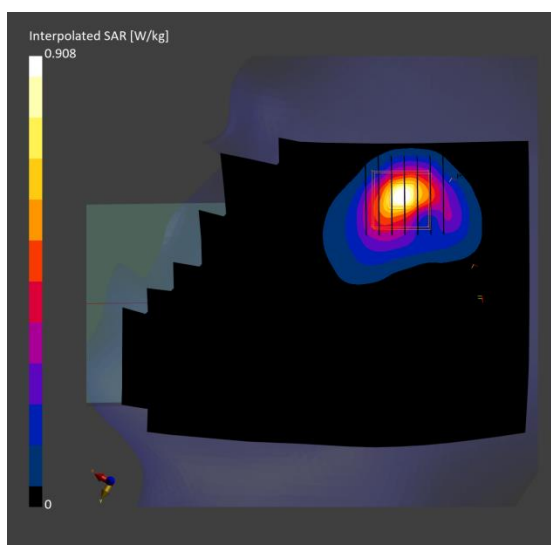
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.415	0.408
psSAR10g [W/Kg]	0.176	0.171
Power Drift [dB]	-0.12	-0.15



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.1 °C
Liquid Temperature: 20.0 °C
Test Date: 12/30/2024
Plot No.: A28
Band: 5 GHz WLAN Head SAR

Measurement Report for Device, CHEEK, WLAN 5GHz, IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle), Channel 102 (5510.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10599-AAD	5510.000, 102	4.71	4.88	34.5

Hardware Setup

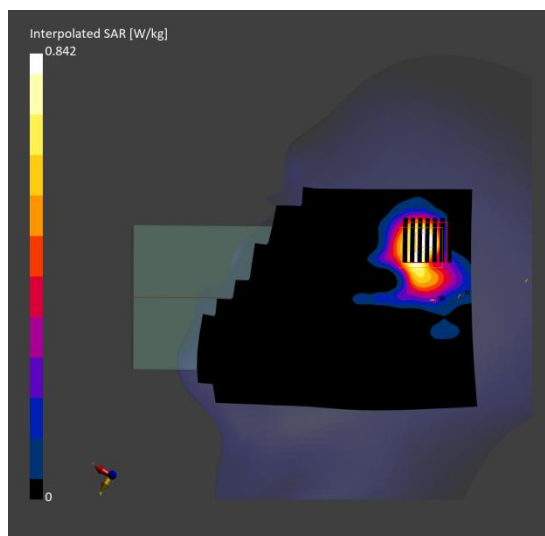
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.144	0.188
psSAR10g [W/Kg]	0.059	0.061
Power Drift [dB]	-0.15	0.02



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.1 °C
Liquid Temperature: 21.0 °C
Test Date: 12/27/2024
Plot No.: A29
Band: Bluetooth Head SAR

Measurement Report for Device, CHEEK, ISM 2.4 GHz Band, Bluetooth Low Energy, Channel 39 (2480.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10670-AAA	2480.000, 39	6.75	1.81	40.0

Hardware Setup

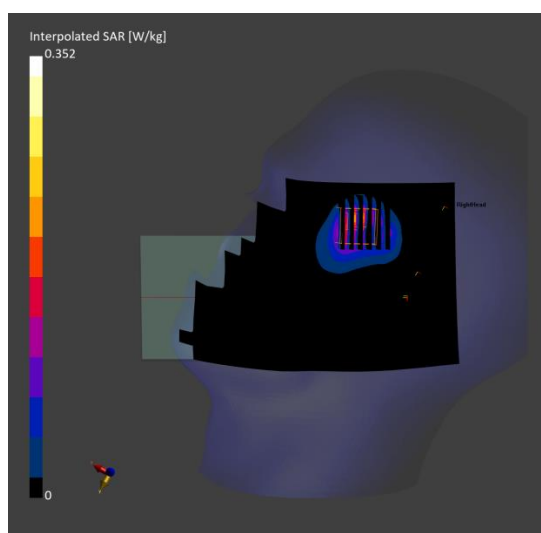
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.155	0.164
psSAR10g [W/Kg]	0.072	0.070
Power Drift [dB]	0.17	-0.13



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.3 °C
Liquid Temperature: 21.2 °C
Test Date: 12/19/2024
Plot No.: B1
Band: GSM850 Body/Hotspot SAR

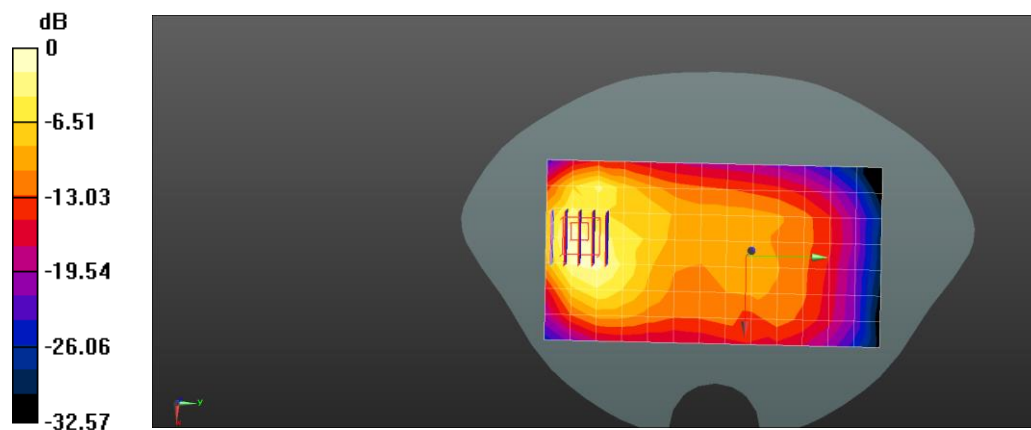
Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.07491
 Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.937 \text{ S/m}$; $\epsilon_r = 42.257$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(8.67, 9.79, 9.49) @ 848.8 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM850 4Tx Body Rear 251ch/Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 1.18 W/kg

GSM850 4Tx Body Rear 251ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12.15 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.448 W/kg
 Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 19.6 °C
Liquid Temperature: 19.5 °C
Test Date: 12/30/2024
Plot No.: B2
Band: GSM1900 Body/Hotspot SAR

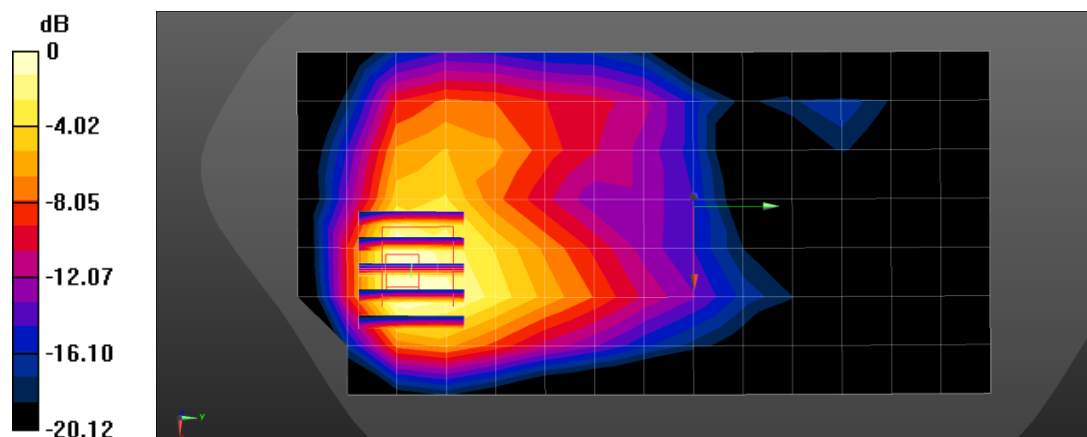
Communication System: UID 0, GSM 1900 4TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.07491
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.425 \text{ S/m}$; $\epsilon_r = 39.23$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1880 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM1900 4Tx Body Rear 661ch/Area Scan (8x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.784 W/kg

GSM1900 4Tx Body Rear 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.537 V/m; Power Drift = 0.17 dB
 Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.530 W/kg; SAR(10 g) = 0.277 W/kg
 Maximum value of SAR (measured) = 0.754 W/kg



0 dB = 0.754 W/kg = -1.23 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.5 °C
Liquid Temperature: 21.4 °C
Test Date: 12/09/2024
Plot No.: B3
Band: UMTS Band 5 Body/Hotspot SAR

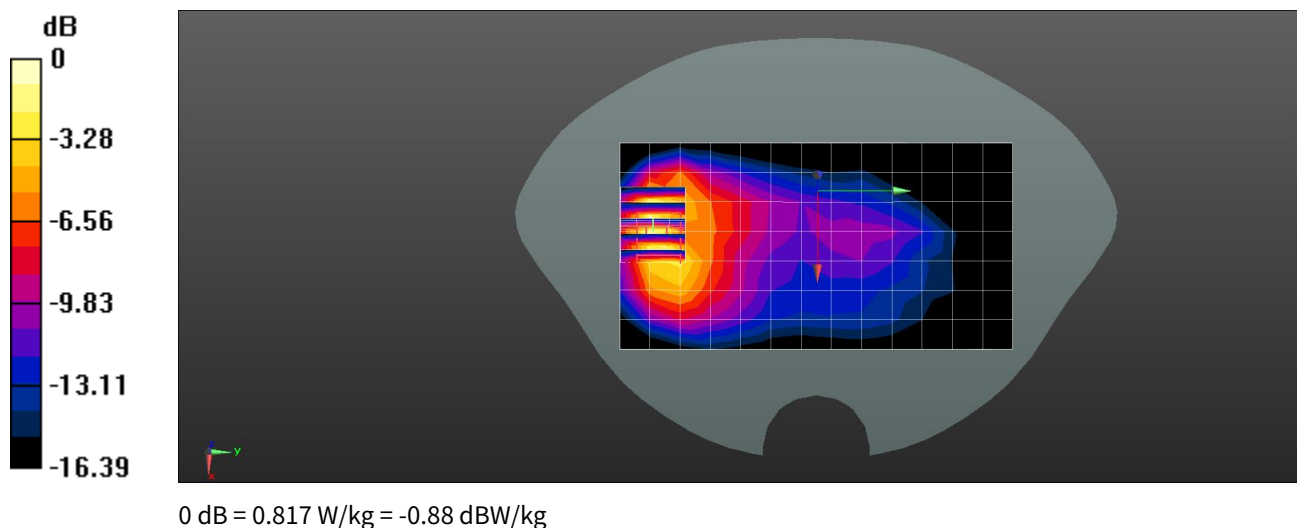
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 40.314$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.88, 8.59, 8.4) @ 836.6 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 5 Body Rear 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.621 W/kg

UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 8.389 V/m; Power Drift = 0.13 dB
 Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.238 W/kg
 Maximum value of SAR (measured) = 0.817 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 22.4 °C
Liquid Temperature: 22.3 °C
Test Date: 12/07/2024
Plot No.: B4
Band: UMTS Band 4 Body/Hotspot SAR

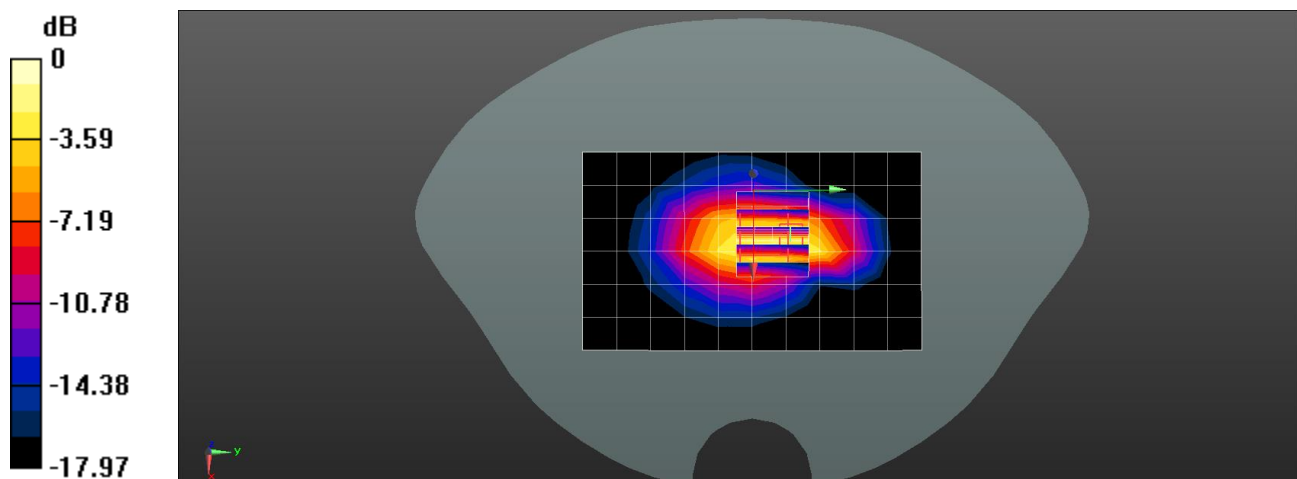
Communication System: UID 0, WCDMA IV (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.307$ S/m; $\epsilon_r = 40.541$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.17, 7.77, 7.85) @ 1712.4 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 4 Body Bottom 1312ch/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.15 W/kg

UMTS Band 4 Body Bottom 1312ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 30.74 V/m; Power Drift = 0.06 dB
 Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.516 W/kg
 Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.7 °C
Liquid Temperature: 20.6 °C
Test Date: 12/10/2024
Plot No.: B5
Band: UMTS Band 2 Body/Hotspot SAR

Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1907.6 MHz; Duty Cycle: 1:1.95434

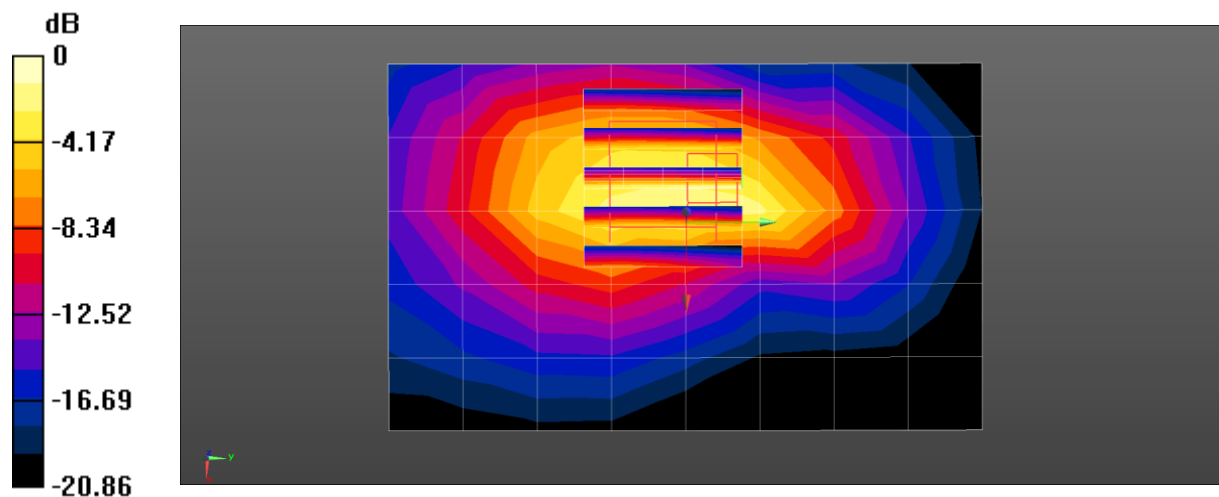
Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.453 \text{ S/m}$; $\epsilon_r = 40.082$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1907.6 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 2 Body Bottom 9538ch/Area Scan (6x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.923 W/kg

UMTS Band 2 Body Bottom 9538ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 15.62 V/m; Power Drift = 0.15 dB
 Peak SAR (extrapolated) = 1.70 W/kg
SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.370 W/kg
 Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.9 °C
Liquid Temperature: 21.8 °C
Test Date: 12/18/2024
Plot No.: B6
Band: LTE FDD Band 2Body/Hotspot SAR

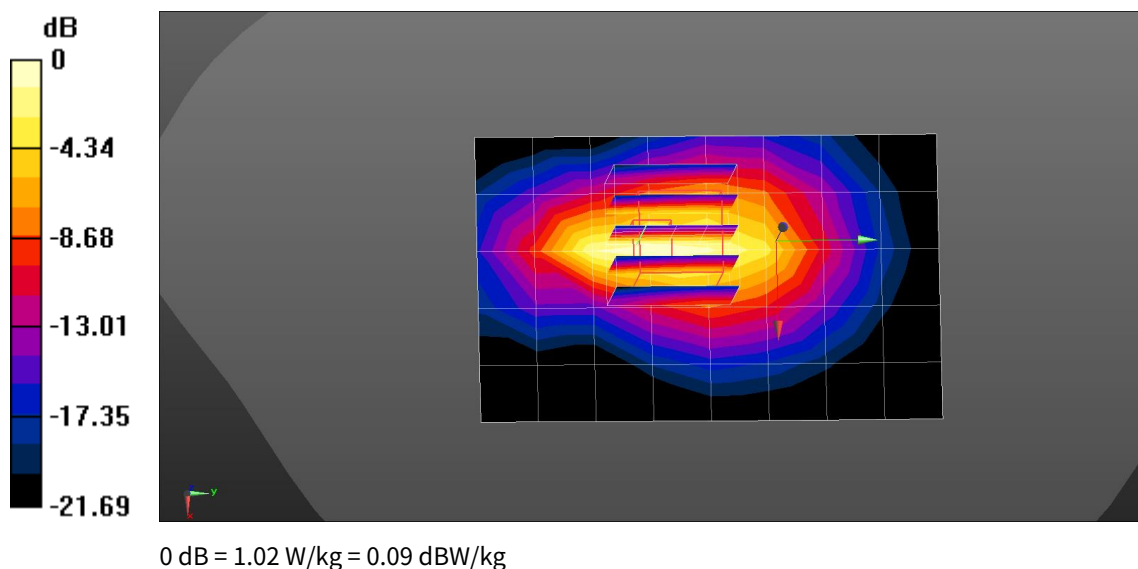
Communication System: UID 10297 - AAE, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 1880 MHz; Duty Cycle: 1:3.80978
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.433$ S/m; $\epsilon_r = 40.068$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1880 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 Body Top QPSK 20MHz 50RB 0offset 18900ch/Area Scan (6x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 0.943 W/kg

LTE Band 2 Body Top QPSK 20MHz 50RB 0offset 18900ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 18.00 V/m; Power Drift = 0.17 dB
 Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.280 W/kg
 Maximum value of SAR (measured) = 1.02 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 12/11/2024
Plot No.: B7
Band: LTE FDD Band 7 Body/Hotspot SAR
Measurement Report for Device, EDGE BOTTOM, Band 7, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 20850 (2510.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 5.00	Band 7	LTE-FDD, 10297-AAE	2510.000, 20850	6.64	1.89	39.3

Hardware Setup

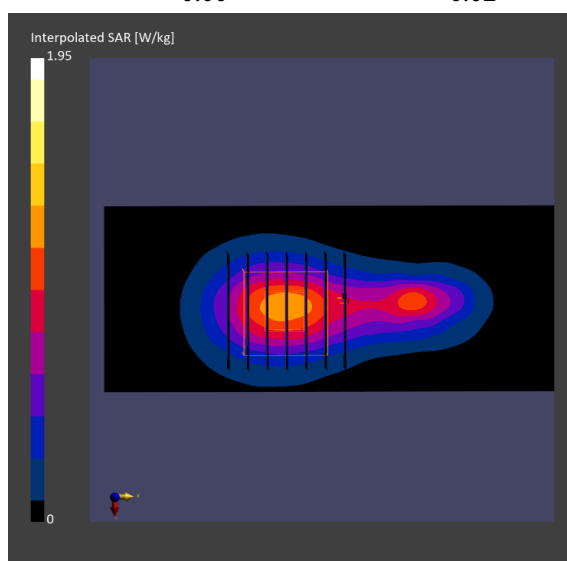
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.962	0.991
psSAR10g [W/Kg]	0.454	0.485
Power Drift [dB]	0.00	0.02



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/06/2024
Plot No.: B8
Band: LTE FDD Band 12 Body/Hotspot SAR
Measurement Report for Device, BACK, Band 12, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 23095 (707.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 12	LTE-FDD, 10175-CAH	707.500, 23095	8.91	0.861	43.3

Hardware Setup

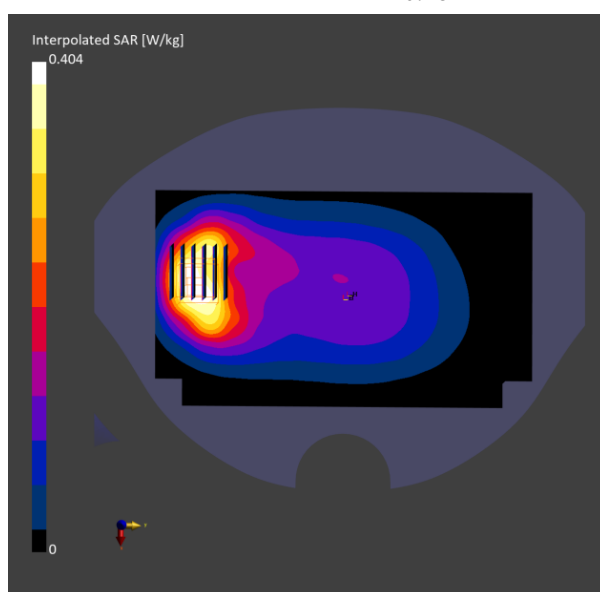
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.177	0.206
psSAR10g [W/Kg]	0.119	0.114
Power Drift [dB]	-0.15	0.01



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/09/2024
Plot No.: B9
Band: LTE FDD Band 13 Body/Hotspot SAR

Measurement Report for Device, BACK, Band 13, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
AntennaCfg:SISO, Channel 23230 (782.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 13	LTE-FDD, 10175-CAH	782.000, 23230	8.91	0.928	42.0

Hardware Setup

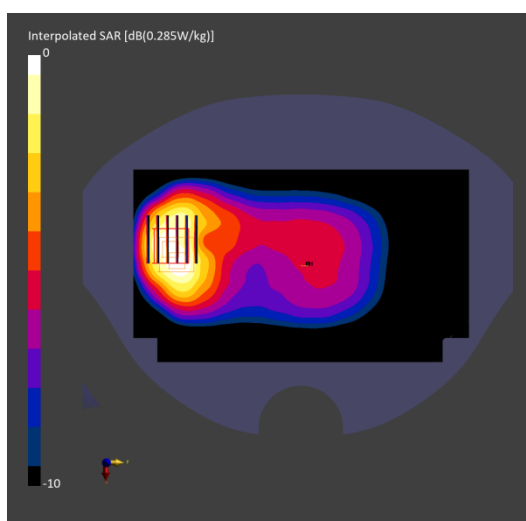
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.243	0.277
psSAR10g [W/Kg]	0.159	0.150
Power Drift [dB]	-0.14	-0.14



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.2 °C
Liquid Temperature: 20.1 °C
Test Date: 12/10/2024
Plot No.: B10
Band: LTE FDD Band 14 Body SAR
Measurement Report for Device, BACK, Band 14, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
AntennaCfg:SISO, Channel 23330 (793.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 14	LTE-FDD, 10175-CAH	793.000, 23330	8.91	0.939	41.8

Hardware Setup

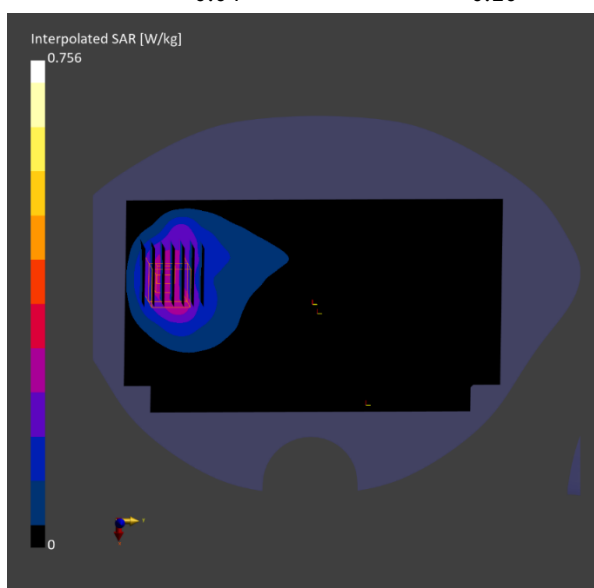
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - xxxx	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.5 x 5.5 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.262	0.337
psSAR10g [W/Kg]	0.177	0.174
Power Drift [dB]	0.04	-0.10



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 19.3 °C
Liquid Temperature: 19.2 °C
Test Date: 12/12/2024
Plot No.: B11
Band: LTE FDD Band 25 Body/Hotspot SAR
Measurement Report for Device, BACK, Band 25, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
AntennaCfg:SISO, Channel 26590 (1905.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 25	LTE-FDD, 10297-AAE	1905.000, 26590	7.35	1.42	40.4

Hardware Setup

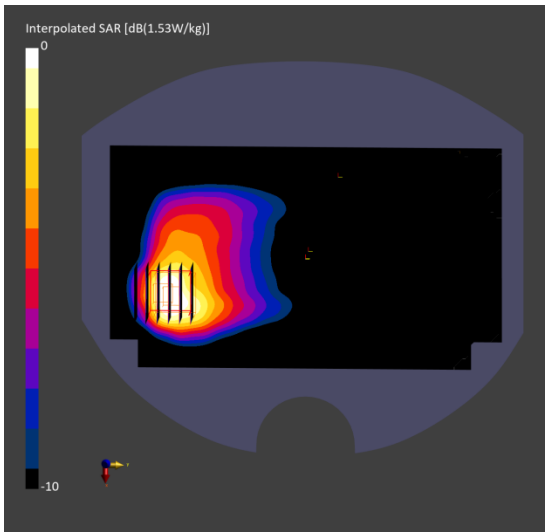
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - xxxx	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.803	0.796
psSAR10g [W/Kg]	0.444	0.419
Power Drift [dB]	0.10	-0.00



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 12/05/2024
Plot No.: B12
Band: LTE FDD Band 26 Body/Hotspot SAR
Measurement Report for Device, BACK, Band 26, LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)
AntennaCfg: SISO, Channel 26865 (831.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 26	LTE-FDD, 10160-CAF	831.500, 26865	8.75	0.919	41.3

Hardware Setup

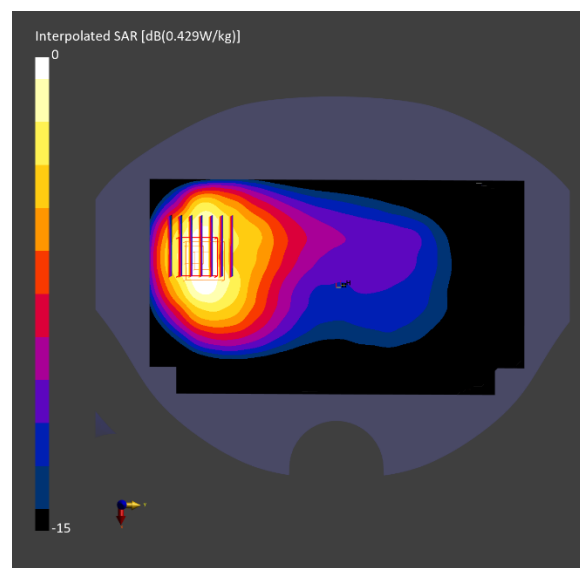
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.7 x 5.7 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.364	0.397
psSAR10g [W/Kg]	0.231	0.204
Power Drift [dB]	-0.07	0.03



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 12/04/2024
Plot No.: B13
Band: LTE FDD Band 30 Body/Hotspot SAR
Measurement Report for Device, EDGE BOTTOM, Band 30, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)
AntennaCfg:SISO, Channel 27710 (2310.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 5.00	Band 30	LTE-FDD, 10154-CAH	2310.000, 27710	7.02	1.70	39.1

Hardware Setup

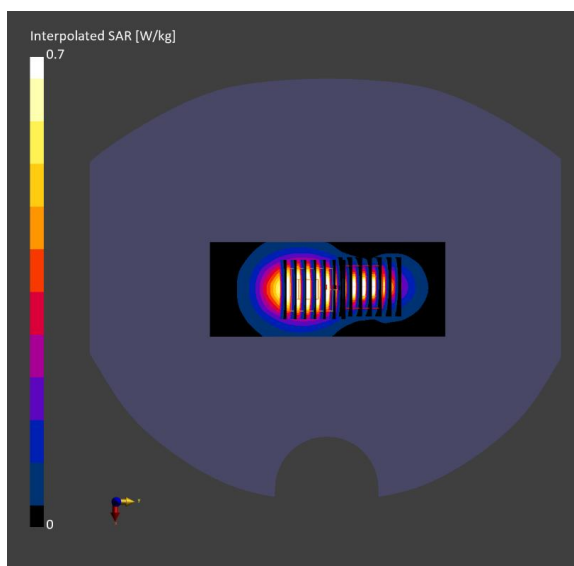
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - xxxx	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan1	Zoom Scan2
psSAR1g [W/Kg]	0.738	0.755	0.602
psSAR10g [W/Kg]	0.368	0.391	0.262
Power Drift [dB]	-0.02	-0.01	0.00



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/17/2024
Plot No.: B14
Band: LTE TDD Band 41 Body/Hotspot SAR
Measurement Report for Device, EDGE BOTTOM, Band 41, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 40620 (2593.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	EDGE BOTTOM, 5.00	Band 41	LTE-TDD, 10494-AAG	2593.000, 40620	6.64	1.99	39.2

Hardware Setup

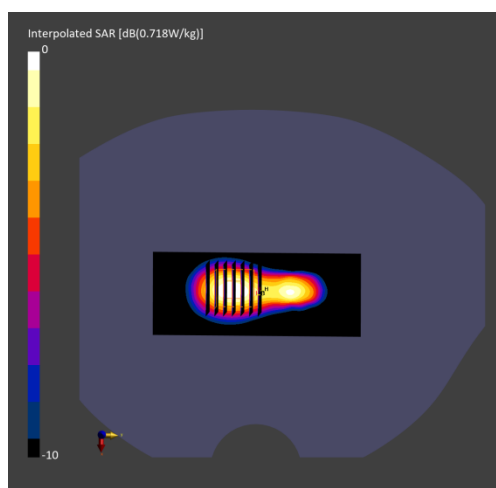
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.355	0.360
psSAR10g [W/Kg]	0.165	0.171
Power Drift [dB]	-0.08	-0.11



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.8 °C
Liquid Temperature: 20.7 °C
Test Date: 12/20/2024
Plot No.: B15
Band: LTE TDD Band 48 Body/Hotspot SAR

Measurement Report for Device, BACK, Band 48, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
AntennaCfg:SISO, Channel 55340 (3560.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 48	LTE-TDD, 10151-CAH	3560.000, 55340	6.44	2.90	36.5

Hardware Setup

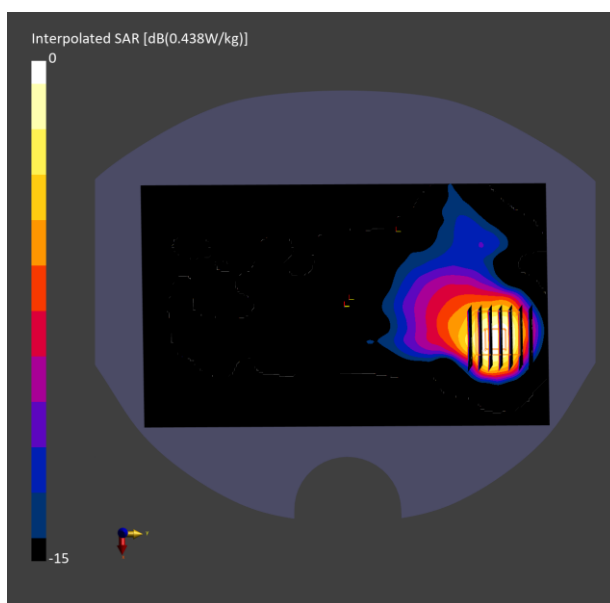
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.325	0.328
psSAR10g [W/Kg]	0.136	0.132
Power Drift [dB]	-0.15	-0.13



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.9 °C
Liquid Temperature: 20.8 °C
Test Date: 12/17/2024
Plot No.: B16
Band: LTE FDD Band 66 Body/Hotspot SAR

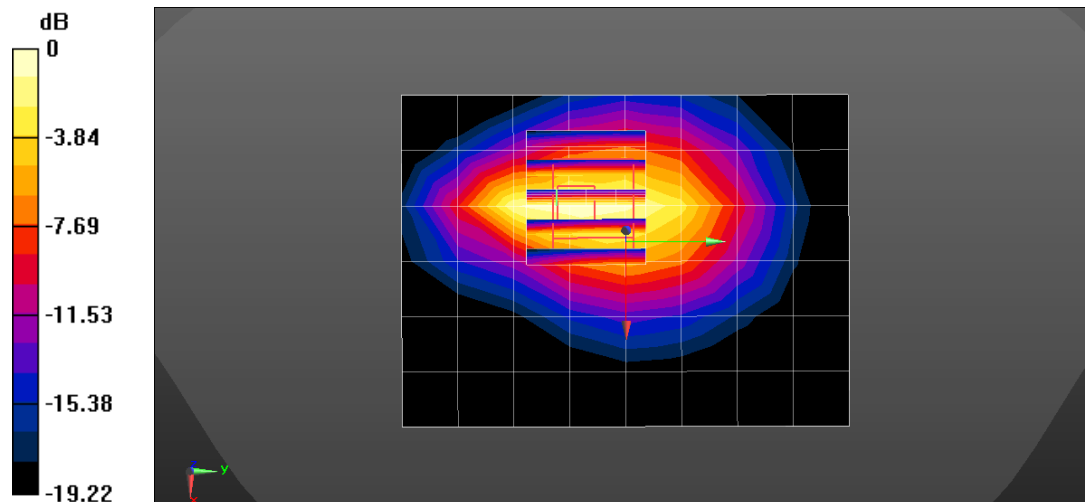
Communication System: UID 0, LTE 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 39.633$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1770 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 Body Top QPSK 20MHz 50RB 49offset 132572ch/Area Scan (7x9x1): Measurement grid:
 dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.52 W/kg

LTE Band 66 Body Top QPSK 20MHz 50RB 49offset 132572ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 18.73 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.506 W/kg
 Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.4 °C
Liquid Temperature: 20.3 °C
Test Date: 12/03/2024
Plot No.: B17
Band: LTE FDD Band 71 Body/Hotspot SAR
Measurement Report for Device, BACK, Band 71, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 133297 (680.500 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	Band 71	LTE-FDD, 10297-AAE	680.500, 133297	8.91	0.889	42.0

Hardware Setup

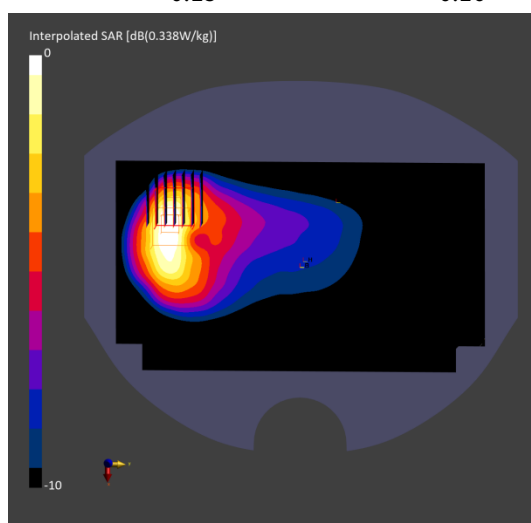
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.1 x 5.1 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.284	0.277
psSAR10g [W/Kg]	0.176	0.139
Power Drift [dB]	-0.15	-0.16



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 12/26/2024
Plot No.: B18
Band: NR FDD Band n2 Body/Hotspot SAR

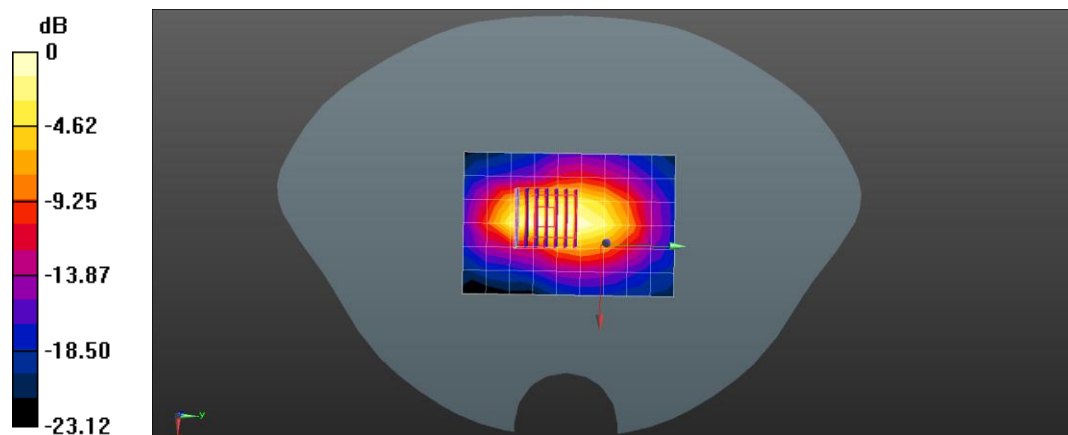
Communication System: UID 10942 - AAC, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1880 MHz; Duty Cycle: 1:3.84769
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.434 \text{ S/m}$; $\epsilon_r = 40.052$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.1, 8.02, 7.77) @ 1880 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n2 Body Top DFT-s QPSK 40MHz 108RB 0offset 376000ch/Area Scan (7x10x1): Measurement
 grid: $dx=12\text{mm}$, $dy=12\text{mm}$
 Maximum value of SAR (measured) = 1.10 W/kg

NR Band n2 Body Top DFT-s QPSK 40MHz 108RB 0offset 376000ch/Zoom Scan (7x7x7)/Cube 0:
 Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 29.41 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.57 W/kg
SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.390 W/kg
 Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.10 W/kg = 0.43 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 22.6 °C
Liquid Temperature: 22.5 °C
Test Date: 12/06/2024
Plot No.: B19
Band: NR FDD Band n5 Body/Hotspot SAR

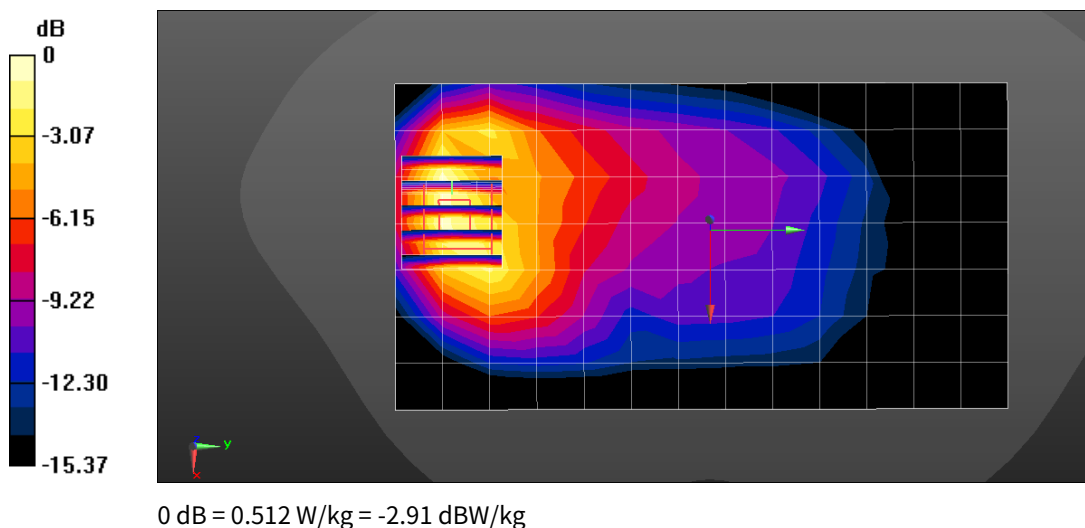
Communication System: UID 0, NR n5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 43.13$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.18, 9.32, 9.14) @ 836.5 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n5 Body Rear DFT-s QPSK 20MHz 50RB 56offset 167300ch/Area Scan (8x14x1): Measurement
 grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.446 W/kg

NR Band n5 Body Rear DFT-s QPSK 20MHz 50RB 56offset 167300ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 8.231 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.602 W/kg
SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.176 W/kg
 Maximum value of SAR (measured) = 0.512 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.8 °C
Liquid Temperature: 21.7 °C
Test Date: 12/11/2024
Plot No.: B20
Band: NR FDD Band n25 Body/Hotspot SAR

Communication System: UID 10942 - AAC, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1882.5 MHz; Duty Cycle: 1:3.84769
 Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.747$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

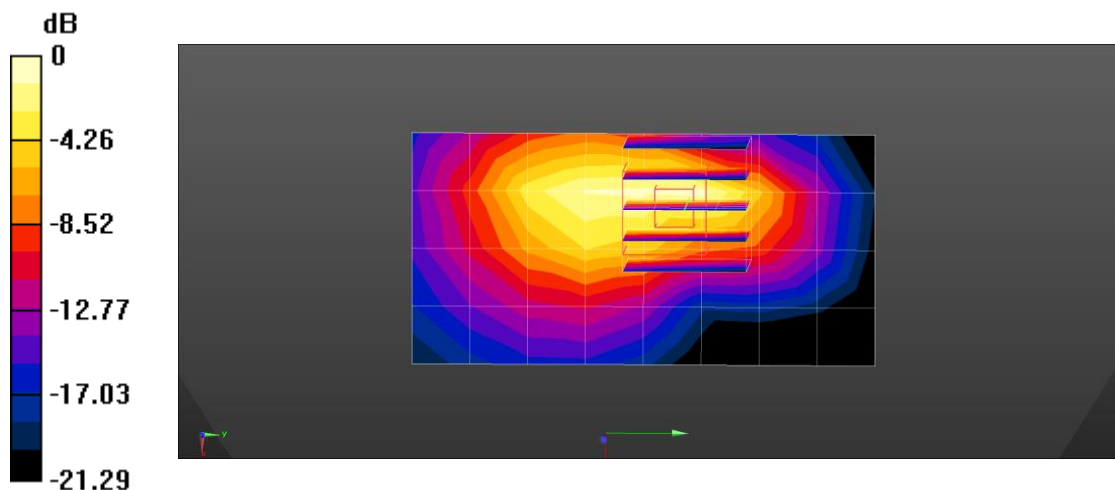
- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1882.5 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band 25 Body Bottom DFT-s QPSK 40MHz 108RB 54offset 376000ch/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.01 W/kg

NR Band 25 Body Bottom DFT-s QPSK 40MHz 108RB 54offset 376000ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 17.60 V/m; Power Drift = 0.15 dB
 Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.728 W/kg; SAR(10 g) = 0.348 W/kg
 Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 23.2 °C
Liquid Temperature: 23.1 °C
Test Date: 01/02/2025
Plot No.: B21
Band: NR FDD Band n30 Body/Hotspot SAR

Communication System: UID 10937 - AAD, 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz);
 Frequency: 2310 MHz; Duty Cycle: 1:3.7792
 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.696$ S/m; $\epsilon_r = 39.033$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

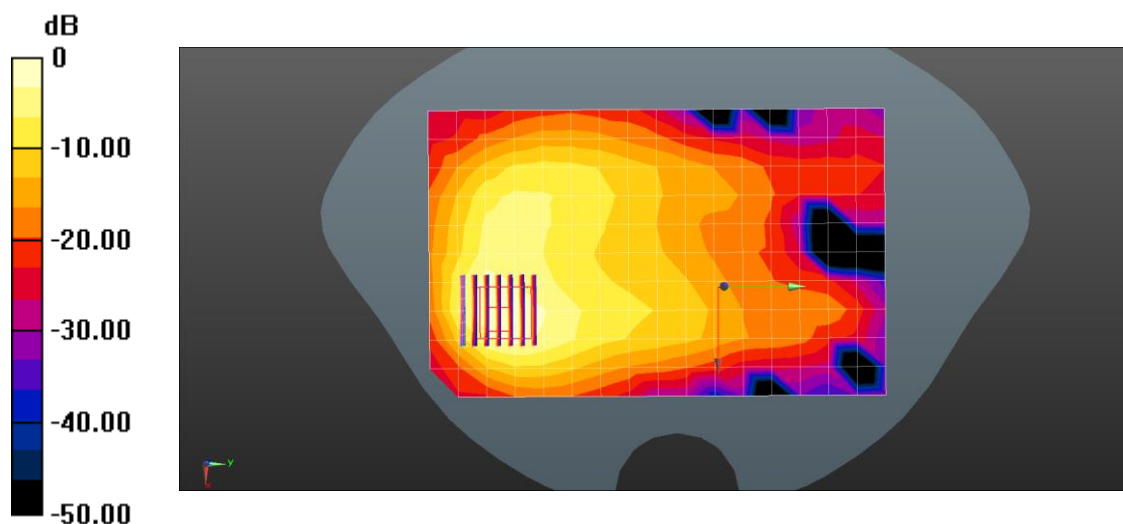
- Probe: EX3DV4 - SN7370; ConvF(6.82, 7.7, 7.46) @ 2310 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n30 Body Rear DFT-s QPSK 10MHz 25RB 0offset 462000ch/Area Scan (11x17x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm
 Maximum value of SAR (measured) = 1.04 W/kg

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

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 5.412 V/m; Power Drift = -0.17 dB
 Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.332 W/kg
 Maximum value of SAR (measured) = 1.05 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.8 °C
Liquid Temperature: 21.7 °C
Test Date: 12/11/2024
Plot No.: B22
Band: NR TDD Band n41 Body/Hotspot SAR

Communication System: UID 10866 - AAF, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz);
 Frequency: 2592.99 MHz; Duty Cycle: 1:3.69913
 Medium parameters used (interpolated): $f = 2592.99$ MHz; $\sigma = 2.023$ S/m; $\epsilon_r = 38.066$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

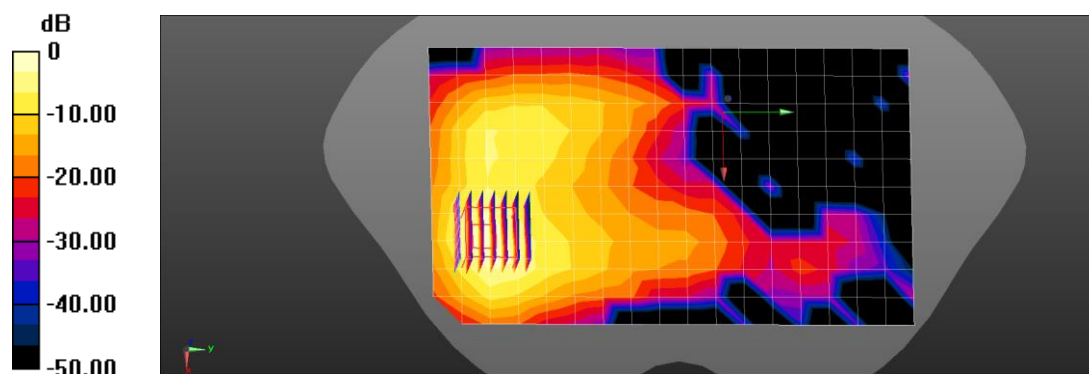
- Probe: EX3DV4 - SN7370; ConvF(6.55, 7.4, 7.17) @ 2592.99 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217
- Measurement SW: DASY52, Version 52.10 (4);

NR Band n41 Body Rear DFT-s QPSK 100MHz 1RB 271offset 518598ch/Area Scan (11x18x1):

Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.693 W/kg

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 1.271 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.945 W/kg
SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.183 W/kg
 Maximum value of SAR (measured) = 0.707 W/kg



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

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.5 °C
Liquid Temperature: 21.4 °C
Test Date: 12/24/2024
Plot No.: B23
Band: NR TDD Band n48 Body/Hotspot SAR

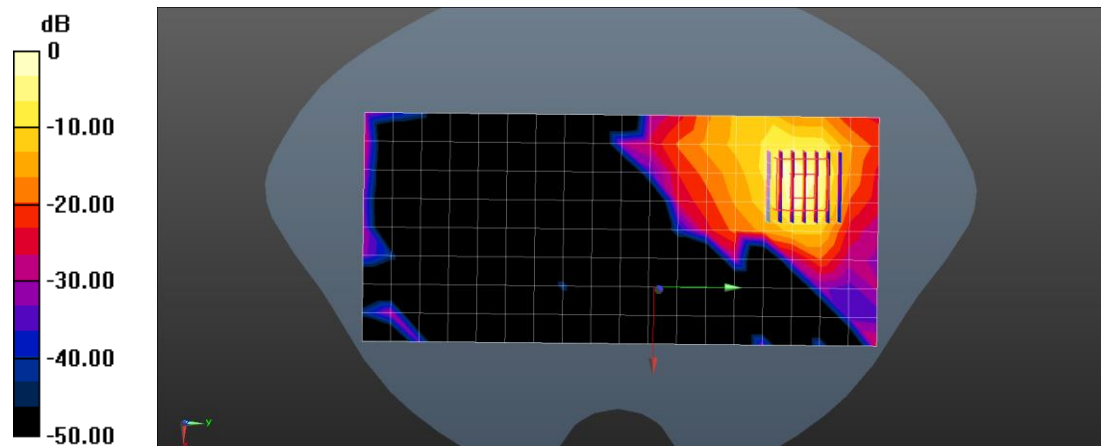
Communication System: UID 0, n48 (0); Frequency: 3624.9 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 3624.9$ MHz; $\sigma = 2.997$ S/m; $\epsilon_r = 36.671$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.22, 7.03, 6.81) @ 3624.9 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n48 Body Rear CW 40MHz 641666ch/Area Scan (9x19x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.872 W/kg

NR Band n48 Body Rear CW 40MHz 641666ch/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) = 2.27 W/kg
SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.221 W/kg
 Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 0.872 W/kg = -0.59 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 12/12/2024
Plot No.: B24
Band: NR FDD Band n66 Body/Hotspot SAR

Communication System: UID 0, n66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.337 \text{ S/m}$; $\epsilon_r = 40.662$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

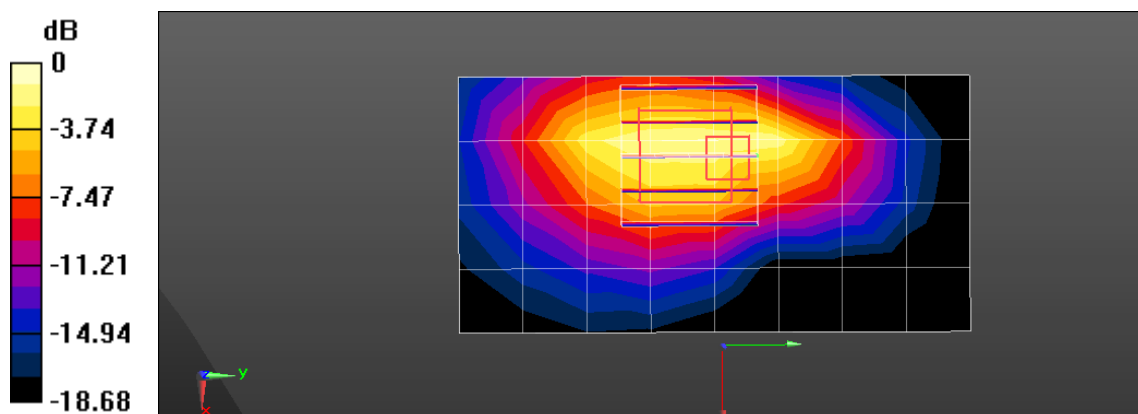
- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1745 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n66 Body Bottom DFT-s QPSK 40MHz 108RB 108offset 349000ch/Area Scan (5x9x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 1.29 W/kg

NR Band n66 Body Bottom DFT-s QPSK 40MHz 108RB 108offset 349000ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 21.23 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 0.986 W/kg; SAR(10 g) = 0.525 W/kg
 Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.3 °C
Liquid Temperature: 21.2 °C
Test Date: 12/19/2024
Plot No.: B25
Band: NR FDD Band n71 Body/Hotspot SAR

Communication System: UID 0, NR n71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 680.5 \text{ MHz}$; $\sigma = 0.881 \text{ S/m}$; $\epsilon_r = 42.078$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.12, 9.7, 9.5) @ 680.5 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band 71 Body Bottom DFT-s QPSK 20MHz 1RB 53offset 136100ch/Area Scan (7x11x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.194 W/kg

NR Band 71 Body Bottom DFT-s QPSK 20MHz 1RB 53offset 136100ch/Zoom Scan (5x5x7)/Cube 0:

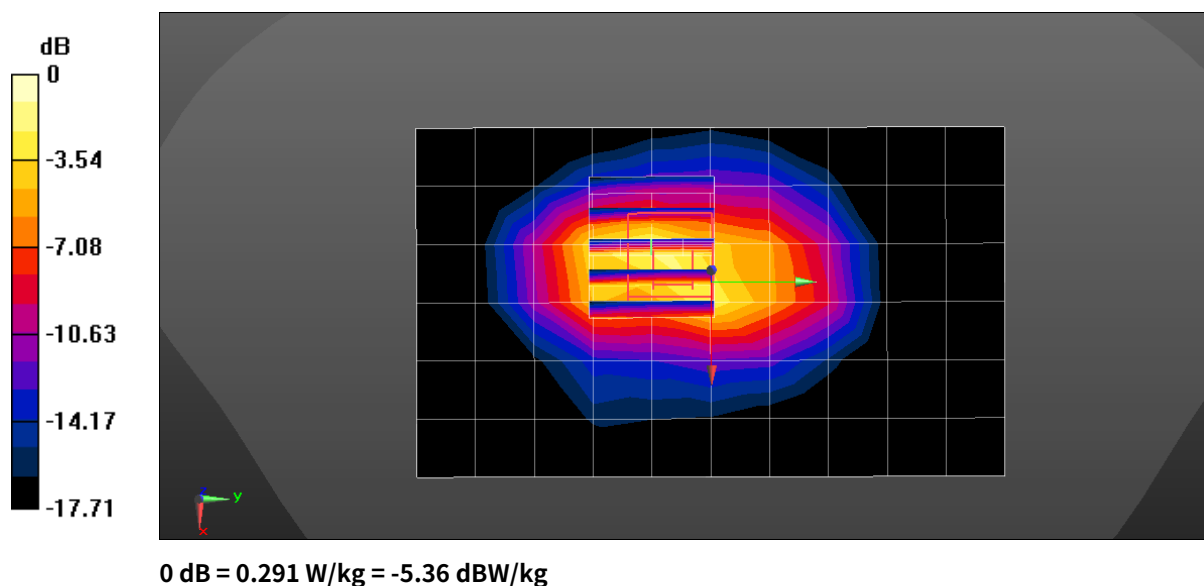
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.57 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.430 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.291 W/kg



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 20.9 °C
Liquid Temperature: 20.8 °C
Test Date: 12/24/2024
Plot No.: B26
Band: NR TDD Band n77 Body/Hotspot SAR

Measurement Report for Device, BACK, Band n77, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)
RBPosition:Mid AntennaCfg:SISO, Channel 650000 (3750.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band n77	5G NR FR1 TDD, 10866-AAF	3750.000, 650000	6.33	3.10	36.4

Hardware Setup

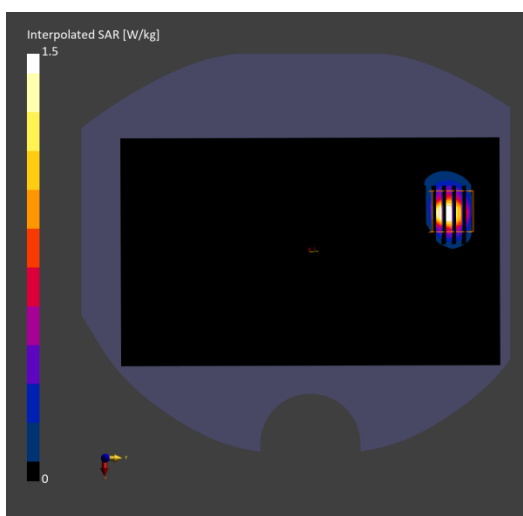
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.383	0.489
psSAR10g [W/Kg]	0.117	0.132
Power Drift [dB]	-0.17	-0.16



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.1 °C
Liquid Temperature: 21.0 °C
Test Date: 12/07/2024
Plot No.: B27
Band: 2.4 GHz WLAN Body/Hotspot SAR

Measurement Report for Device, BACK, WLAN 2.4GHz, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps), Channel 6 (2437.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.000, 6	6.75	1.76	39.8

Hardware Setup

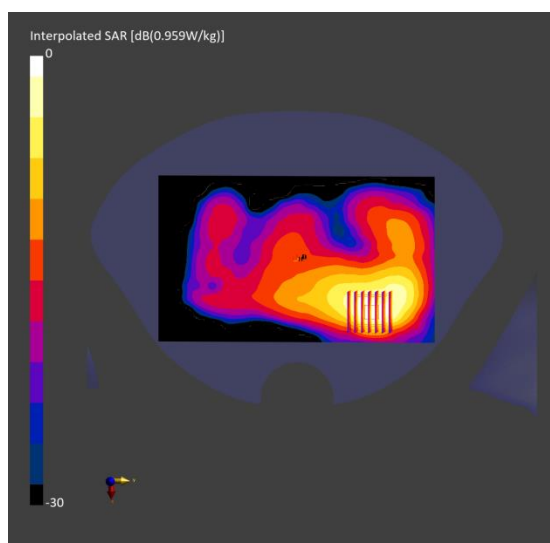
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.383	0.424
psSAR10g [W/Kg]	0.175	0.175
Power Drift [dB]	-0.11	-0.02



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.0 °C
Liquid Temperature: 20.9 °C
Test Date: 12/31/2024
Plot No.: B28
Band: 5 GHz WLAN Body/Hotspot SAR

Measurement Report for Device, BACK, WLAN 5GHz, IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle), Channel 62 (5310.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 5.00	WLAN 5GHz	WLAN, 10599-AAD	5310.000, 62	5.17	4.76	35.0

Hardware Setup

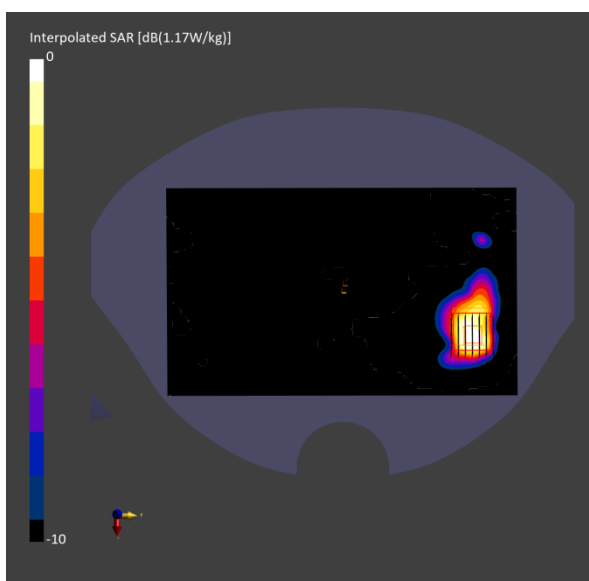
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.227	0.285
psSAR10g [W/Kg]	0.081	0.085
Power Drift [dB]	0.09	-0.04



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 21.1 °C
Liquid Temperature: 21.0 °C
Test Date: 12/27/2024
Plot No.: B29
Band: Bluetooth Body/Hotspot SAR

Measurement Report for Device, EDGE LEFT, ISM 2.4 GHz Band, Bluetooth Low Energy, Channel 78 (2480.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 5.00	ISM 2.4 GHz Band	Bluetooth, 10670-AAA	2480.000, 78	6.75	1.86	39.3

Hardware Setup

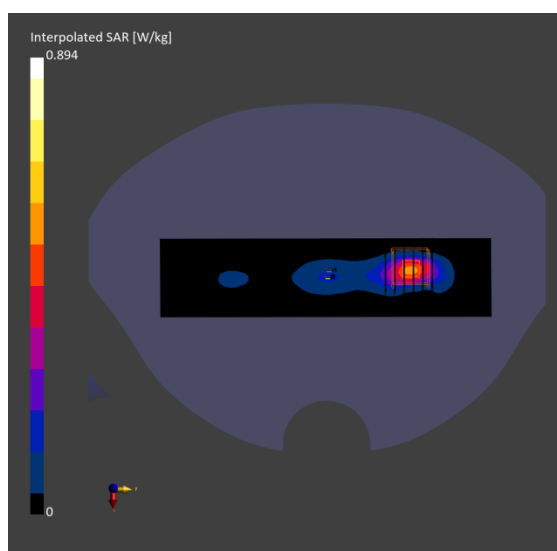
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.412	0.391
psSAR10g [W/Kg]	0.170	0.156
Power Drift [dB]	-0.16	-0.10



Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Ambient Temperature: 23.4 °C
Liquid Temperature: 23.3 °C
Test Date: 01/07/2025
Plot No.: C1
Band: NFC Phablet SAR

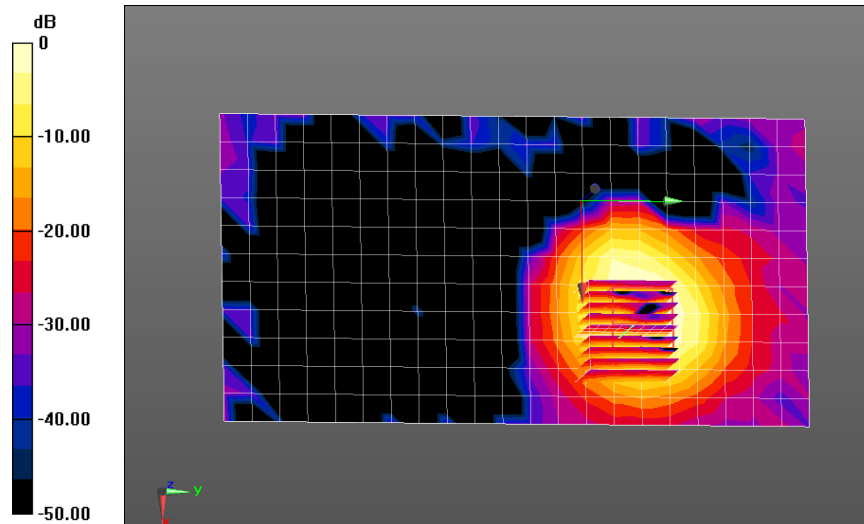
Communication System: UID 0, CW (0); Frequency: 13.56 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 14 \text{ MHz}$; $\sigma = 0.74 \text{ S/m}$; $\epsilon_r = 54.503$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.39, 5.7, 6.16) @ 13.56 MHz; Calibrated: 2024-07-17
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NFC Phablet Rear Type A 106kbps/Area Scan (12x22x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.209 W/kg

NFC Phablet Rear Type A 106kbps/Zoom Scan (9x9x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
 Reference Value = 0 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.062 W/kg
 Maximum value of SAR (measured) = 0.236 W/kg



0 dB = 0.236 W/kg = -6.27 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: 12/06/2024
Band: LTE FDD Band 12_ANT. A(Main 1)
Measurement Report for Device, , , CW, Channel 0 (750.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	750.000, 0	8.91	0.906	42.6

Hardware Setup

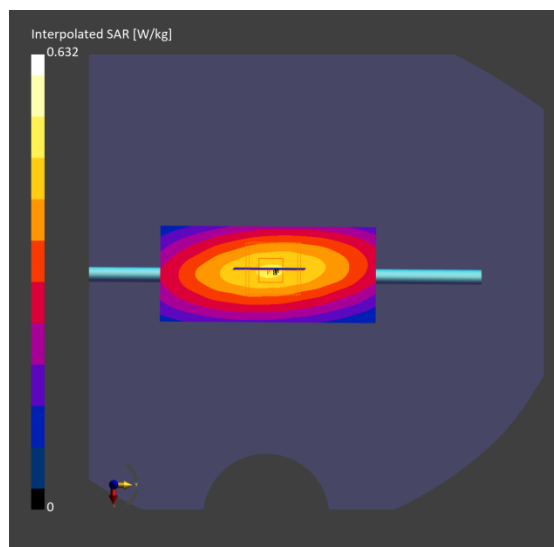
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.421	0.430
psSAR10g [W/Kg]	0.283	0.296
Power Drift [dB]	-0.00	-0.01



■ Verification Data (750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.3 °C
Test Date: 12/03/2024
Band: LTE FDD Band 71_ANT. A(Main 1)

Measurement Report for Device, , , CW, Channel 0 (750.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,	CW, 0--		750.000, 0	8.91	0.905	40.4

Hardware Setup

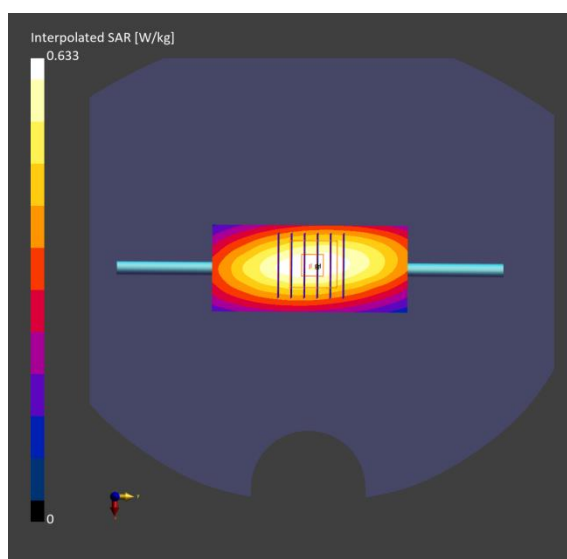
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.421	0.429
psSAR10g [W/Kg]	0.283	0.295
Power Drift [dB]	0.00	-0.01



Verification Data (750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.9 °C
Test Date: 12/09/2024
Band: LTE FDD Band 13_ANT. A(Main 1)
Measurement Report for Device, , , CW, Channel 0 (750.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	750.000, 0	8.91	0.905	42.4

Hardware Setup

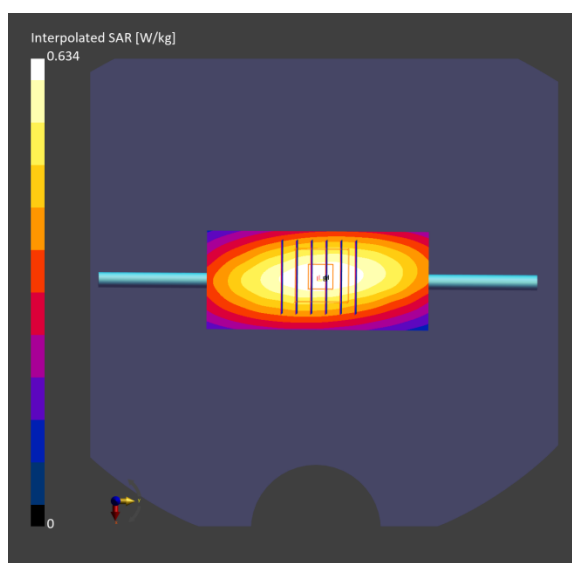
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.420	0.429
psSAR10g [W/Kg]	0.282	0.295
Power Drift [dB]	0.01	0.00



■ Verification Data (750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.1 °C
Test Date: 12/10/2024
Band: LTE FDD Band 14_ANT. A(Main 1)
Measurement Report for Device, , , CW, Channel 0 (750.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	750.000, 0	8.91	0.905	42.4

Hardware Setup

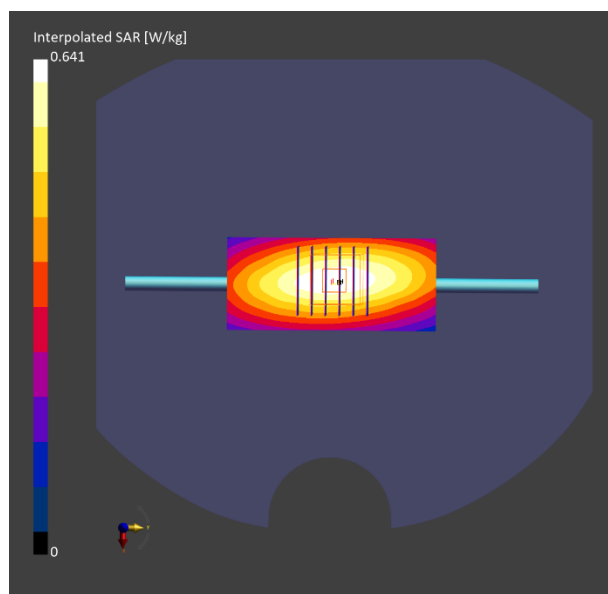
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.420	0.430
psSAR10g [W/Kg]	0.282	0.296
Power Drift [dB]	0.01	0.01



■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.2 °C
Test Date: 12/19/2024
Band: GSM 850_ANT. A(Main 1)

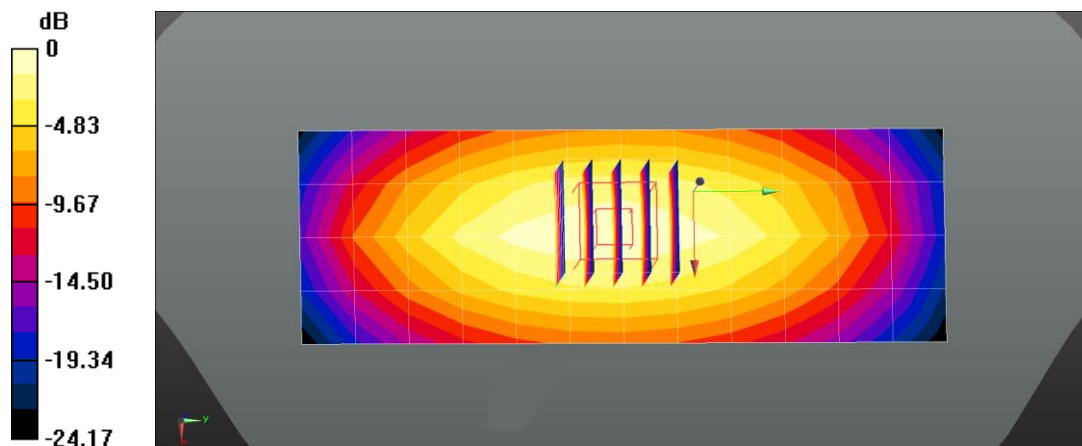
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.932 \text{ S/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(8.67, 9.79, 9.49) @ 835 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

835MHz Head Verification/Area Scan (5x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.704 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 29.36 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.814 W/kg
SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.337 W/kg
 Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.704 W/kg = -1.52 dBW/kg

■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.4 °C
Test Date: 12/09/2024
Band: UMTS Band 5_ANT. A(Main 1)

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 40.338$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.88, 8.59, 8.4) @ 835 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (5x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.615 W/kg

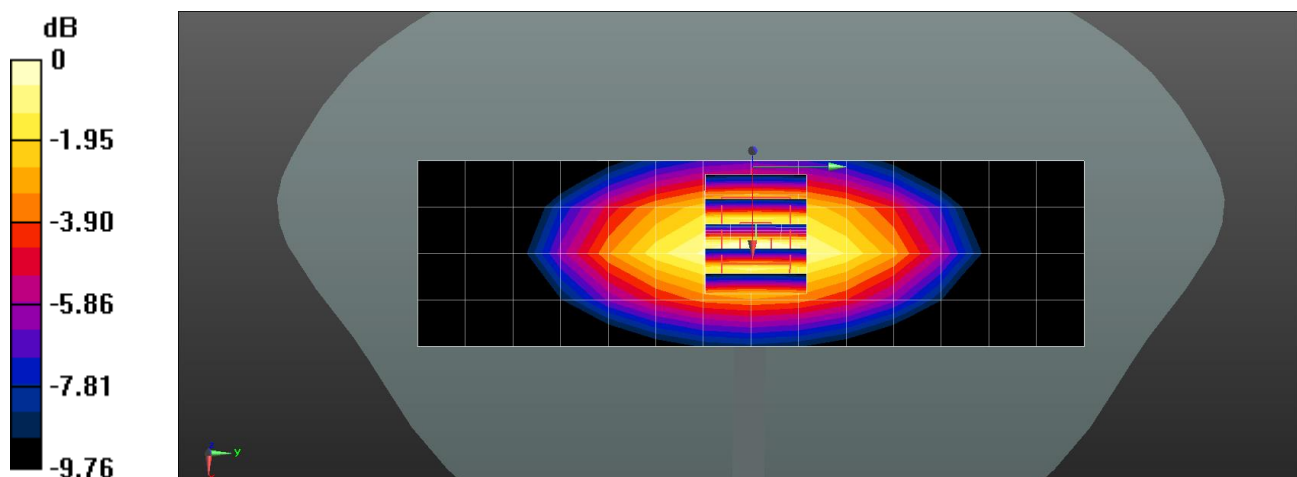
835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.60 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.333 W/kg

Maximum value of SAR (measured) = 0.630 W/kg



0 dB = 0.630 W/kg = -2.01 dBW/kg

■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.3 °C
Test Date: 12/05/2024
Band: LTE FDD Band 26_ANT. A(Main 1)
Measurement Report for Device, , , CW, Channel 0 (835.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	835.000, 0	8.75	0.922	41.3

Hardware Setup

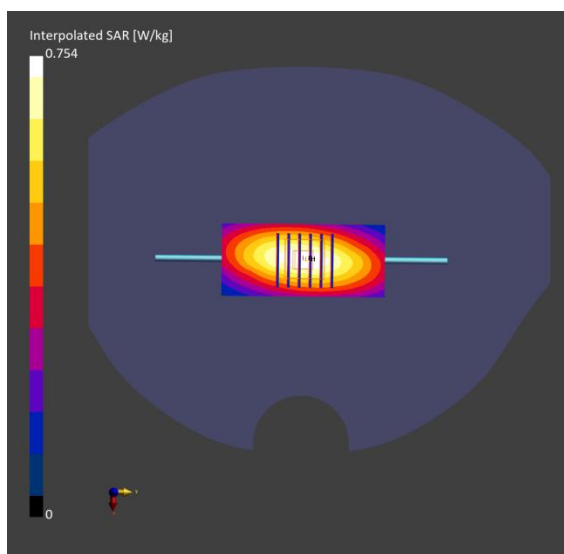
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.516	0.520
psSAR10g [W/Kg]	0.339	0.351
Power Drift [dB]	0.00	0.01



■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 22.3 °C
Test Date: 12/07/2024
Band: UMTS Band 4_ANT. B(Main 2)

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.387 \text{ S/m}$; $\epsilon_r = 40.303$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.17, 7.77, 7.85) @ 1800 MHz; Calibrated: 2024-01-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2024-08-16
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1800MHz Head Verification/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.81 W/kg

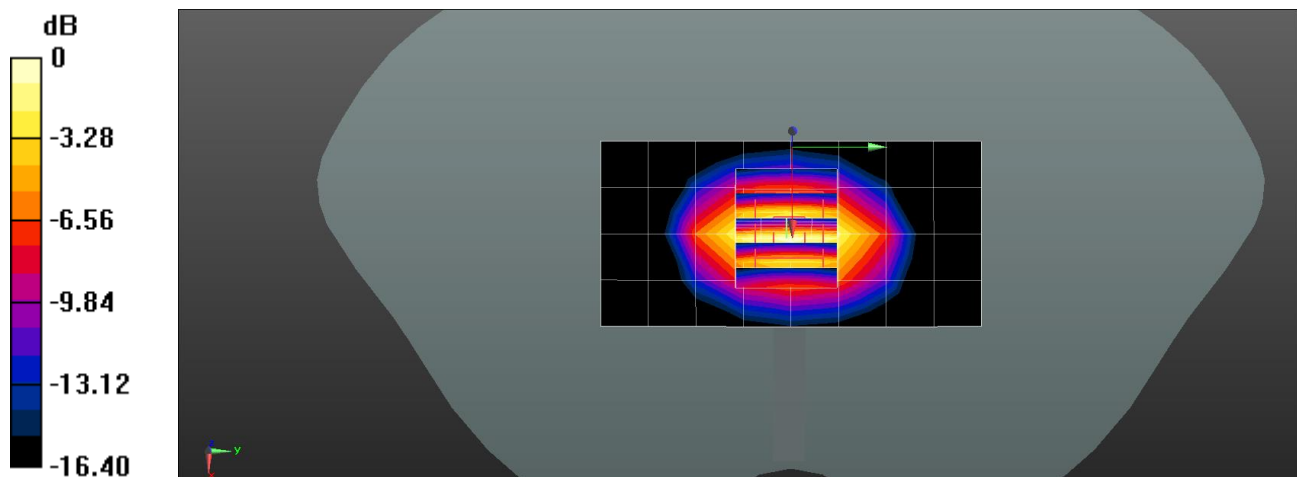
1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.37 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.3 °C
Test Date: 12/16/2024
Band: LTE FDD Band 66_ANT. B(Main 2)
Measurement Report for Device, , , CW, Channel 0 (1800.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1800.000, 0	7.55	1.42	40.9

Hardware Setup

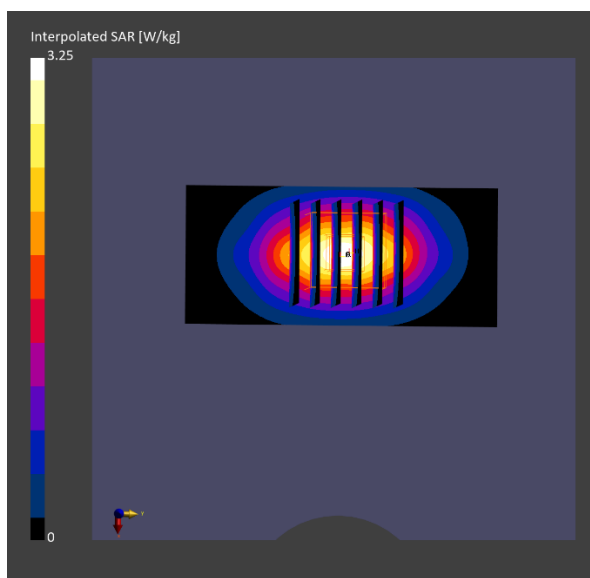
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.81	1.82
psSAR10g [W/Kg]	0.944	0.983
Power Drift [dB]	-0.00	-0.01



■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.8 °C
Test Date: 12/17/2024
Band: LTE FDD Band 66_ANT. D(Sub 2).

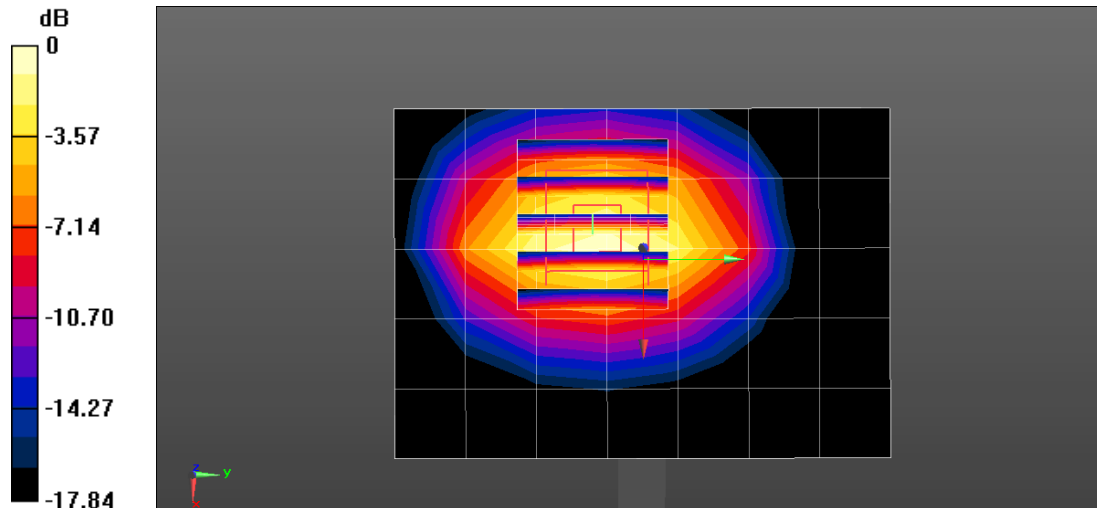
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.394 \text{ S/m}$; $\epsilon_r = 39.534$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1800 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1800MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.93 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 32.58 V/m; Power Drift = 0.16 dB
 Peak SAR (extrapolated) = 3.72 W/kg
SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.07 W/kg
 Maximum value of SAR (measured) = 3.14 W/kg



0 dB = 3.14 W/kg = 4.97 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: 12/30/2024
Band: GSM 1900_ANT. B(Main 2)

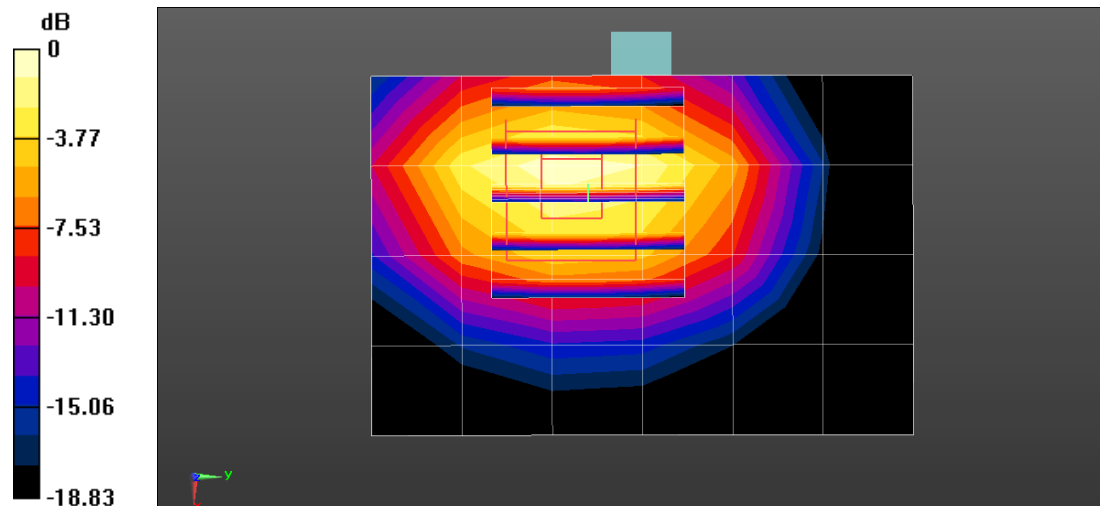
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.444 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1900 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.04 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 29.38 V/m; Power Drift = 0.12 dB
 Peak SAR (extrapolated) = 3.91 W/kg
SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.11 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: 20.6 °C
Test Date: 12/10/2024
Band: UMTS Band 2_ANT. B(Main 2)

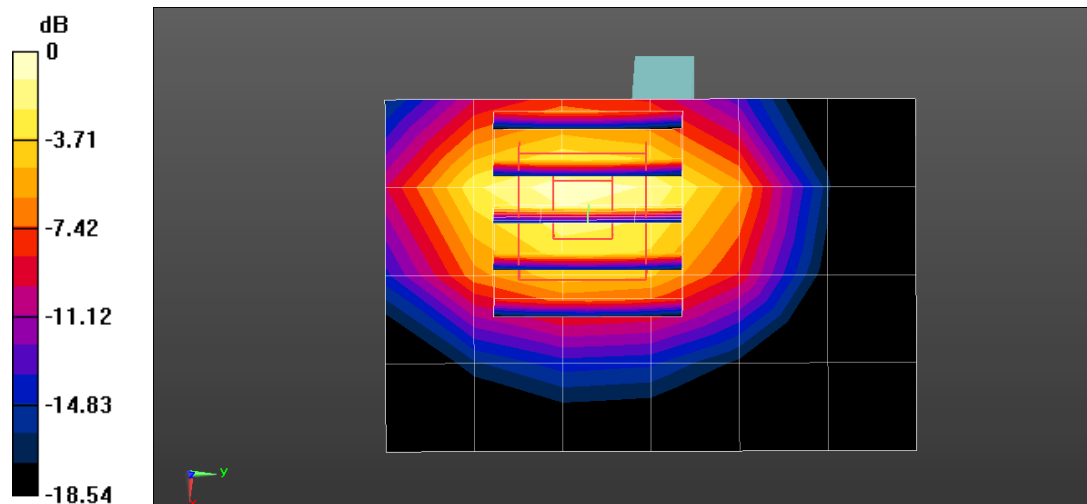
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.448 \text{ S/m}$; $\epsilon_r = 40.099$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1900 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.06 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 29.51 V/m; Power Drift = 0.16 dB
 Peak SAR (extrapolated) = 3.95 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.11 W/kg
 Maximum value of SAR (measured) = 3.36 W/kg



0 dB = 3.36 W/kg = 5.26 dBW/kg

■ Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.8 °C
Test Date: 12/18/2024
Band: LTE FDD Band 2_ANT. D(Sub 2)

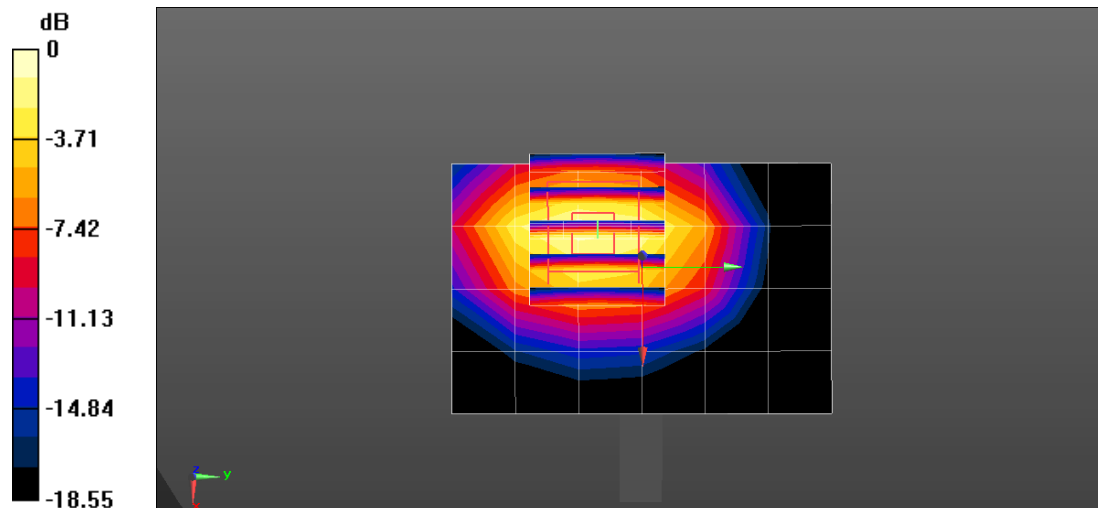
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.452 \text{ S/m}$; $\epsilon_r = 40.067$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1900 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.09 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 29.48 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 3.94 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.12 W/kg
 Maximum value of SAR (measured) = 3.36 W/kg



0 dB = 3.36 W/kg = 5.26 dBW/kg

■ Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 19.2 °C
Test Date: 12/12/2024
Band: LTE FDD Band 25_ANT. B(Main 2)
Measurement Report for Device, , , CW, Channel 0 (1900.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,			CW, 0--	1900.000, 0	7.35	1.41	40.5

Hardware Setup

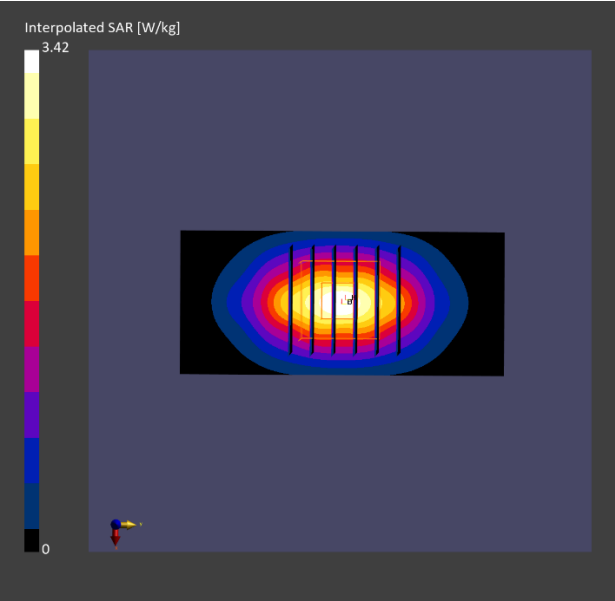
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.94	1.95
psSAR10g [W/Kg]	0.995	1.04
Power Drift [dB]	0.01	0.00



■ Verification Data (2 300 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 °C
Test Date: 12/04/2024
Band: LTE FDD Band 30_ANT. B(Main 2)
Measurement Report for Device, , , CW, Channel 0 (2300.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		2300.000, 0	7.02	1.69	39.1

Hardware Setup

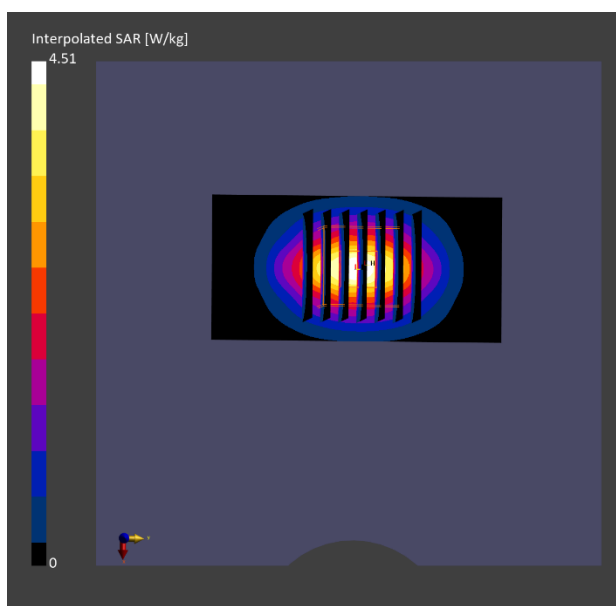
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.37	2.38
psSAR10g [W/Kg]	1.11	1.16
Power Drift [dB]	0.01	-0.00



■ Verification Data (2 450 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.7 °C
Test Date: 12/07/2024
Band: 2.4 GHz WLAN ANT. F(Sub 4)
Measurement Report for Device, , , CW, Channel 0 (2450.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,	CW, 0--		2450.000, 0	6.75	1.79	39.9

Hardware Setup

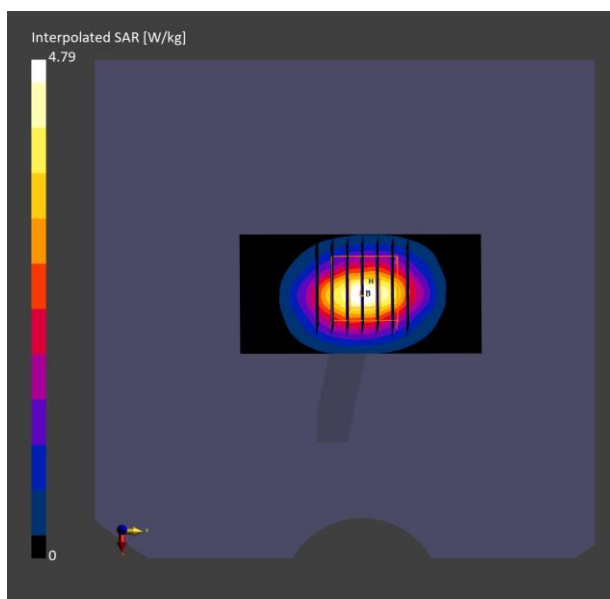
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.45	2.47
psSAR10g [W/Kg]	1.13	1.17
Power Drift [dB]	0.01	-0.01



Verification Data (2 450 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.0 °C
Test Date: 12/27/2024
Band: Bluetooth_ANT. F(Sub 4)
Measurement Report for Device, , , CW, Channel 0 (2450.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	2450.000, 0	6.75	1.74	39.6

Hardware Setup

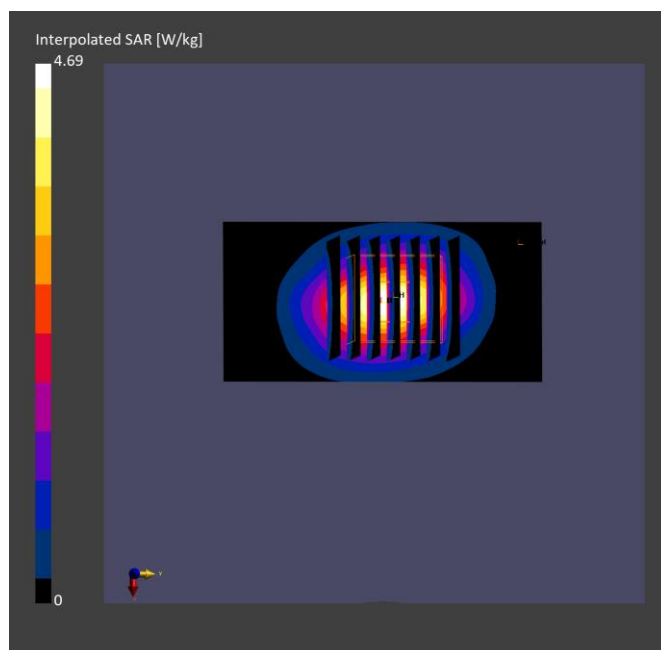
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.45	2.45
psSAR10g [W/Kg]	1.12	1.17
Power Drift [dB]	-0.04	-0.02



■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 °C
Test Date: 12/11/2024
Band: LTE FDD Band 7_ANT. B(Main 2)
Measurement Report for Device, , , CW, Channel 0 (2600.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		2600.000, 0	6.64	2.01	39.2

Hardware Setup

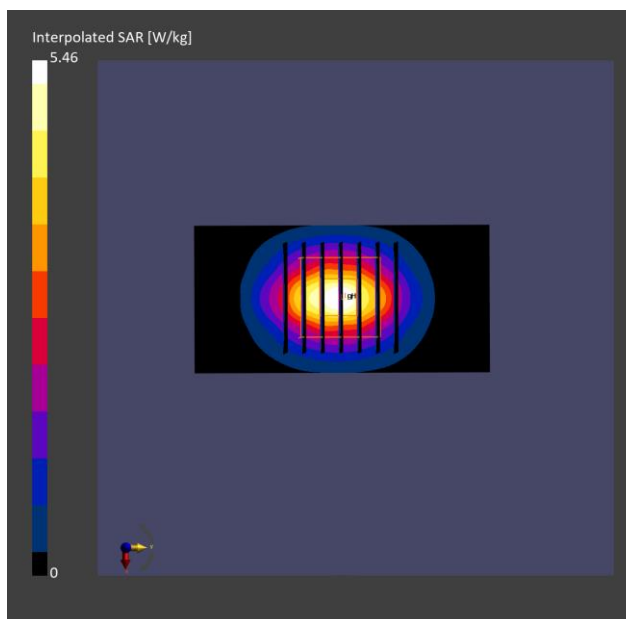
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.59	2.63
psSAR10g [W/Kg]	1.15	1.20
Power Drift [dB]	-0.00	0.00



Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.9 °C
Test Date: 12/17/2024
Band: LTE TDD Band 41_ANT. B(Main 2)
Measurement Report for Device, , , CW, Channel 0 (2600.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	2600.000, 0	6.64	2.00	39.1

Hardware Setup

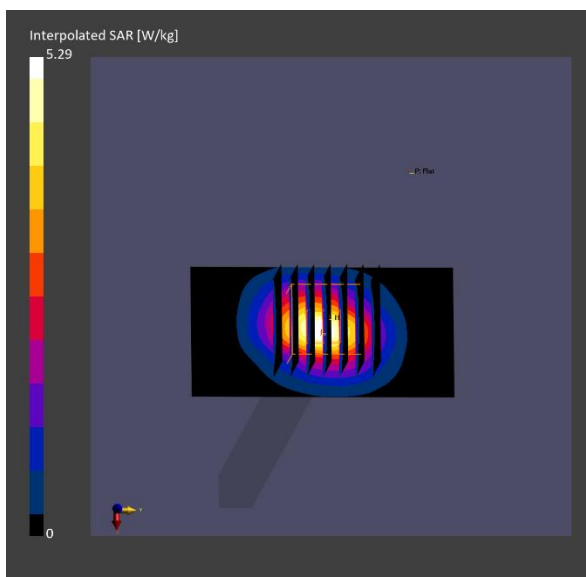
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.61	2.62
psSAR10g [W/Kg]	1.16	1.20
Power Drift [dB]	-0.00	-0.05



■ Verification Data (3 500 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.0 °C
Test Date: 12/20/2024
Band: LTE TDD Band 48_ANT. D(Sub 2)
Measurement Report for Device, , , CW, Channel 0 (3500.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	3500.000, 0	6.44	2.86	36.6

Hardware Setup

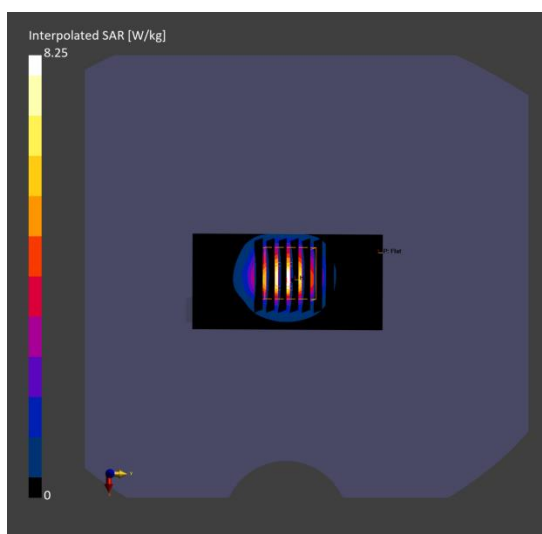
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.03	3.19
psSAR10g [W/Kg]	1.17	1.21
Power Drift [dB]	0.01	-0.02



■ Verification Data (5 250 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.0 °C
Test Date: 12/30/2024
Band U-NII-2A(Head) ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5250.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5250.000, 0	5.17	4.62	34.7

Hardware Setup

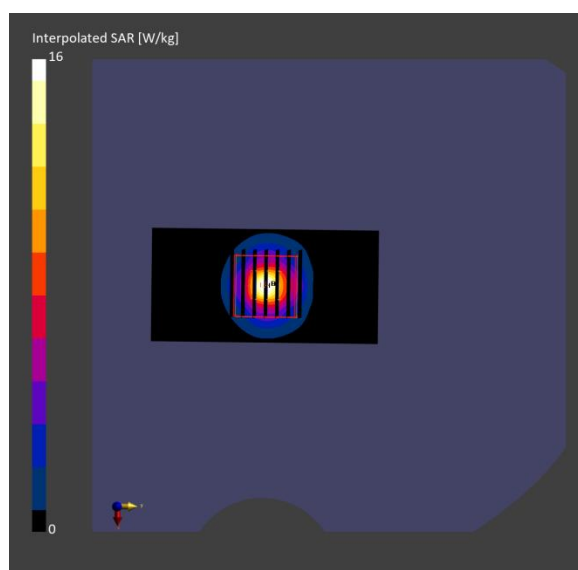
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.50	3.94
psSAR10g [W/Kg]	1.00	1.15
Power Drift [dB]	-0.01	-0.02



■ Verification Data (5 250 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.9 °C
Test Date: 12/31/2024
Band U-NII-2A(Body)_ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5250.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5250.000, 0	5.17	4.68	35.1

Hardware Setup

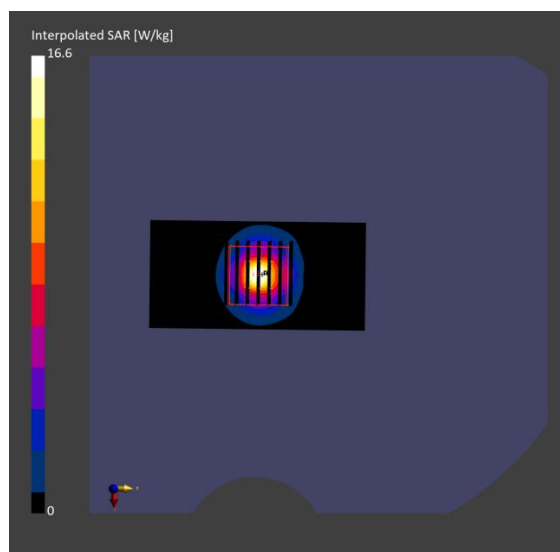
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.48	3.99
psSAR10g [W/Kg]	0.998	1.16
Power Drift [dB]	0.00	0.02



■ Verification Data (5 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.0 °C
Test Date: 12/30/2024
Band U-NII-2C(Head) ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5600.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		5600.000, 0	4.71	4.97	34.3

Hardware Setup

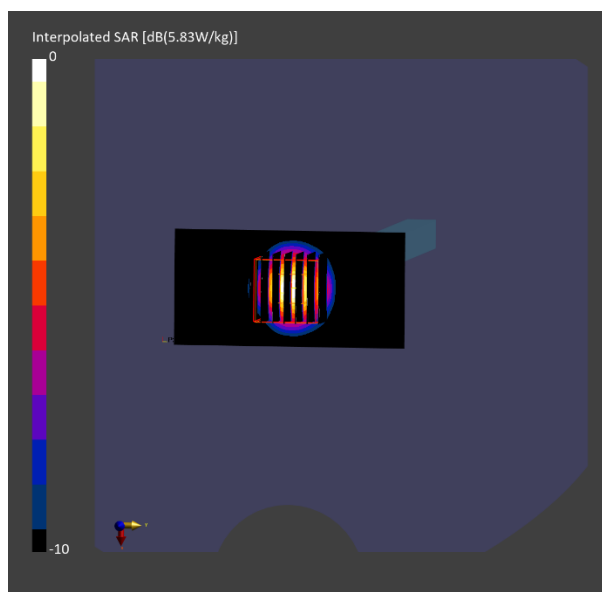
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.62	4.20
psSAR10g [W/Kg]	1.03	1.20
Power Drift [dB]	-0.00	-0.00



■ Verification Data (5 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.9 °C
Test Date: 12/31/2024
Band U-NII-2C(Body)_ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5600.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,			CW, 0--	5600.000, 0	4.71	5.03	34.6

Hardware Setup

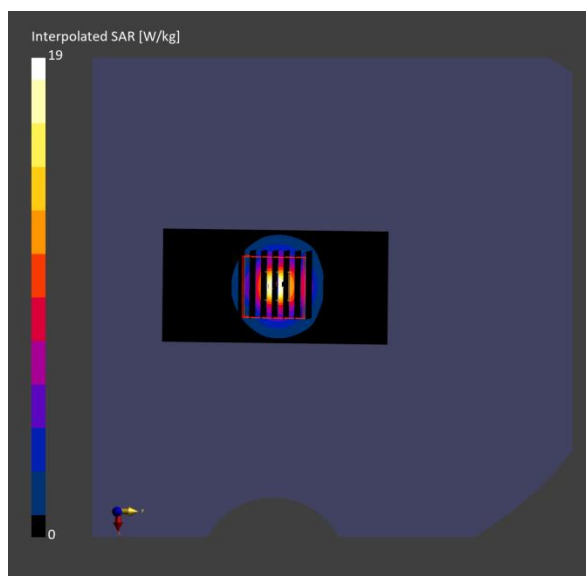
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.68	4.25
psSAR10g [W/Kg]	1.04	1.22
Power Drift [dB]	-0.00	0.03



■ Verification Data (5 750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.0 °C
Test Date: 12/30/2024
Band U-NII-3(Head)_ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5750.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,			CW, 0--	5750.000, 0	4.71	5.19	34.1

Hardware Setup

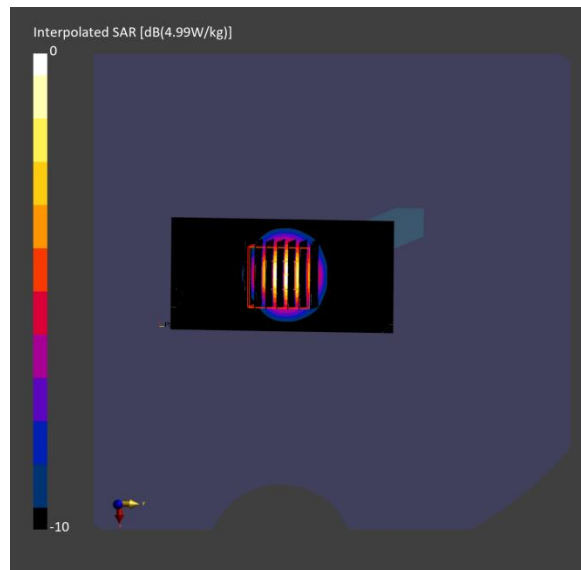
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.14	3.64
psSAR10g [W/Kg]	0.896	1.04
Power Drift [dB]	0.01	-0.00



■ Verification Data (5 750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.9 °C
Test Date: 12/31/2024
Band U-NII-3(Body)_ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5750.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		5750.000, 0	4.71	5.25	34.5

Hardware Setup

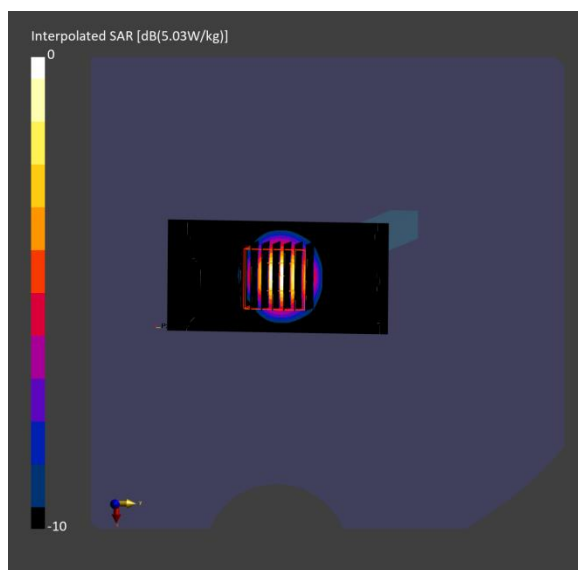
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.17	3.70
psSAR10g [W/Kg]	0.906	1.06
Power Drift [dB]	0.01	-0.01



■ Verification Data (5 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.0 °C
Test Date: 12/30/2024
Band U-NII-4(Head)_ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5800.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		5800.000, 0	4.77	5.13	34.1

Hardware Setup

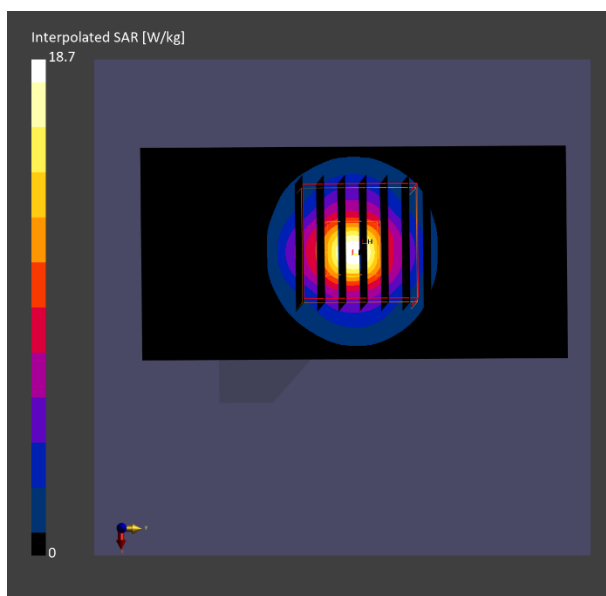
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.40	3.87
psSAR10g [W/Kg]	0.934	1.08
Power Drift [dB]	0.05	-0.02



■ Verification Data (5 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.9 °C
Test Date: 12/31/2024
Band U-NII-4(Body)_ANT. E(Sub 3)
Measurement Report for Device, , , CW, Channel 0 (5800.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		5800.000, 0	4.77	5.19	34.5

Hardware Setup

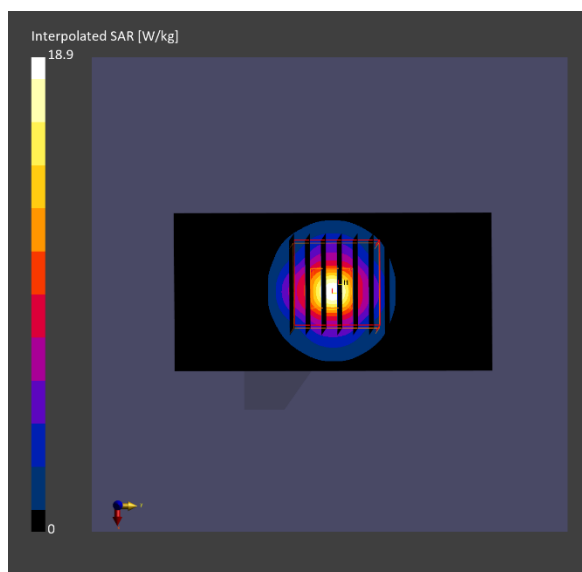
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.40	3.91
psSAR10g [W/Kg]	0.937	1.09
Power Drift [dB]	0.00	0.02



◆ 5G NR SUB 6

■ Verification Data (750 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.2 °C
Test Date: 12/19/2024
Band: NR FDD Band n71_ANT. A(Main 1)

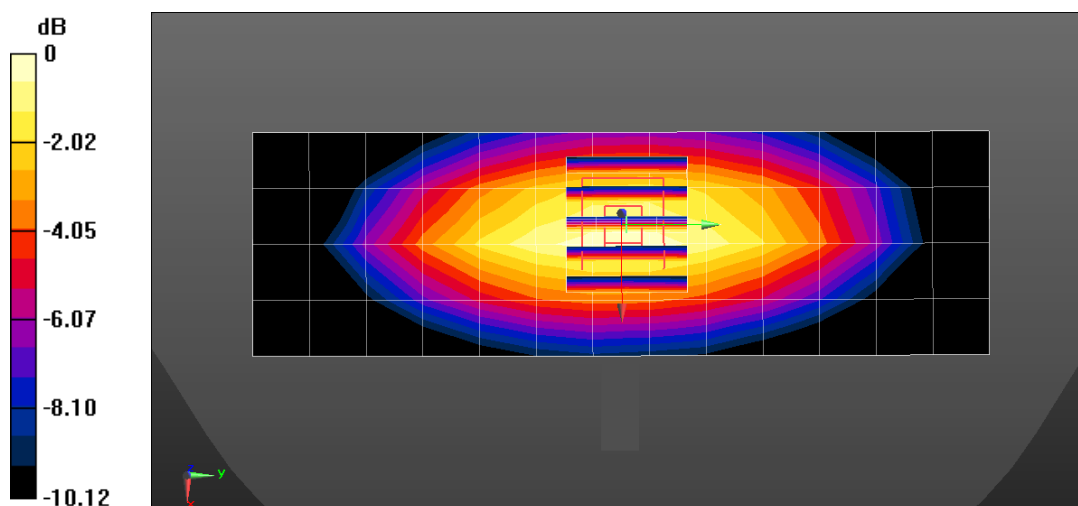
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 41.191$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.12, 9.7, 9.5) @ 750 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.544 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 26.54 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 0.647 W/kg
SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.295 W/kg
 Maximum value of SAR (measured) = 0.584 W/kg



0 dB = 0.584 W/kg = -2.34 dBW/kg

■ Verification Data (835 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 22.5 °C
Test Date: 12/06/2024
Band: NR FDD Band n5_ANT. A(Main 1)

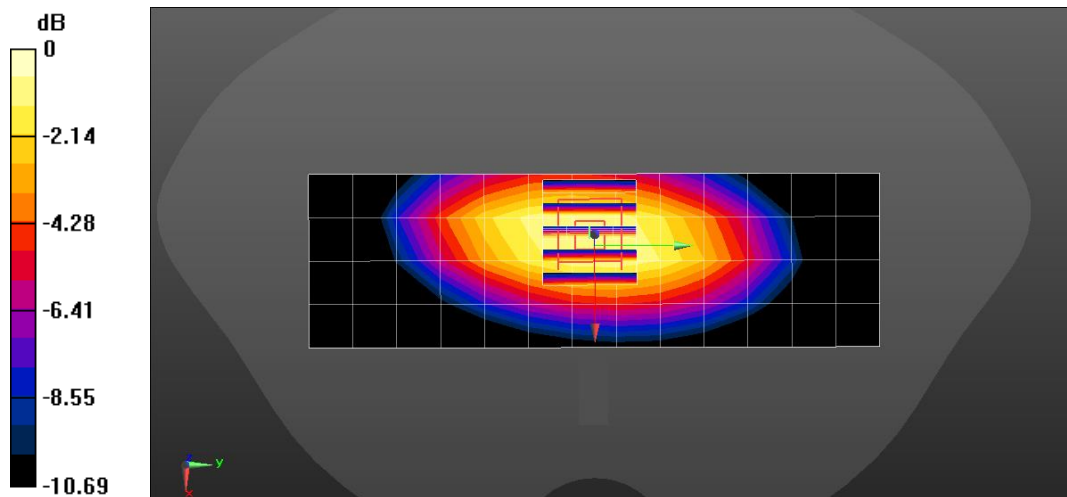
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 43.135$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.18, 9.32, 9.14) @ 835 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

835MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.563 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 26.45 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 0.731 W/kg
SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.328 W/kg
 Maximum value of SAR (measured) = 0.661 W/kg



0 dB = 0.661 W/kg = -1.80 dBW/kg

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 °C
Test Date: 12/12/2024
Band: NR FDD Band n66_ANT. B(Main 2)

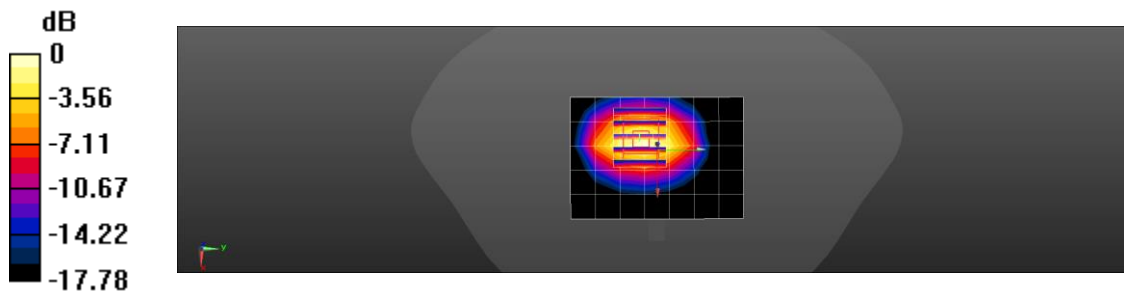
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.377 \text{ S/m}$; $\epsilon_r = 40.618$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1800 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1800MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.89 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 32.53 V/m; Power Drift = 0.06 dB
 Peak SAR (extrapolated) = 3.71 W/kg
SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.06 W/kg
 Maximum value of SAR (measured) = 3.14 W/kg



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

■ Verification Data (1 800 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.9 °C
Test Date: 12/16/2024
Band: NR FDD Band n66_ANT. D(Sub 2)

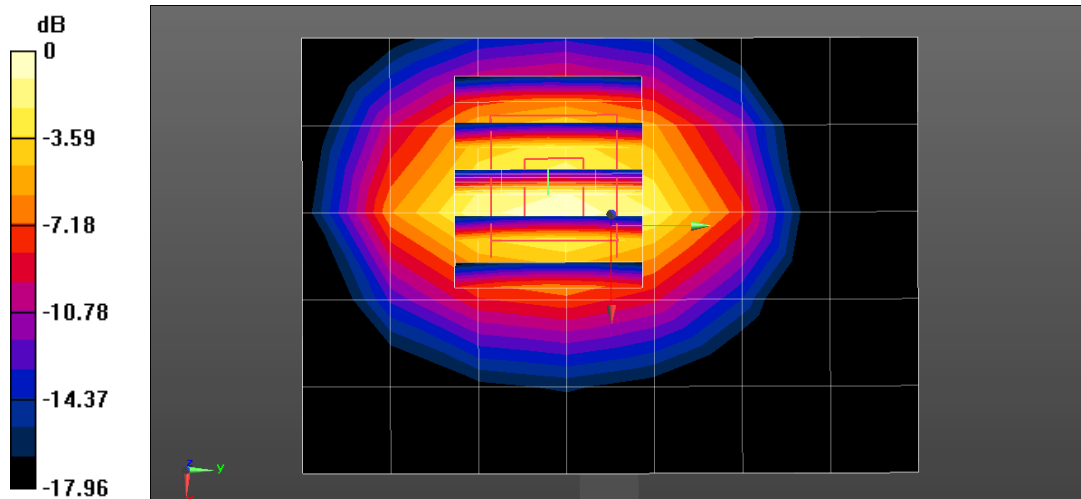
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 40.949$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.69, 8.16, 7.84) @ 1800 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1800MHz Head Verification/Area Scan (6x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 2.97 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 32.54 V/m; Power Drift = 0.15 dB
 Peak SAR (extrapolated) = 3.79 W/kg
SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.08 W/kg
 Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

■ Verification Data (1 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.3 °C
Test Date: 12/26/2024
Band: NR FDD Band n2 Head_ANT. D(Sub 2)

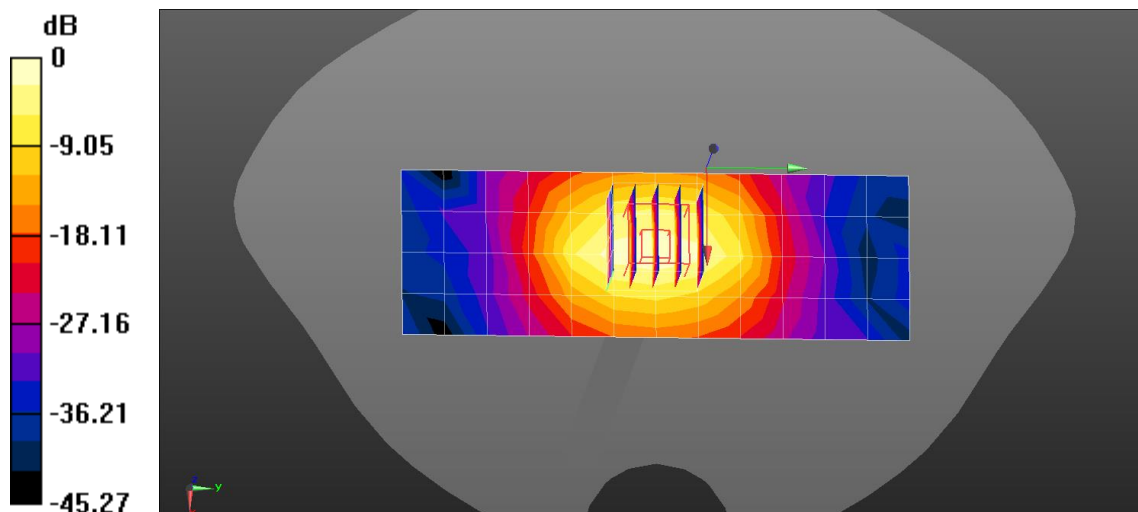
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.453$ S/m; $\epsilon_r = 40.051$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.1, 8.02, 7.77) @ 1900 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.79 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 46.96 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 3.35 W/kg
SAR(1 g) = 1.95 W/kg; SAR(10 g) = 1.03 W/kg
 Maximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.79 W/kg = 4.46 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: 12/11/2024
Band: NR FDD Band n25 Body_ANT. B(Main 2)

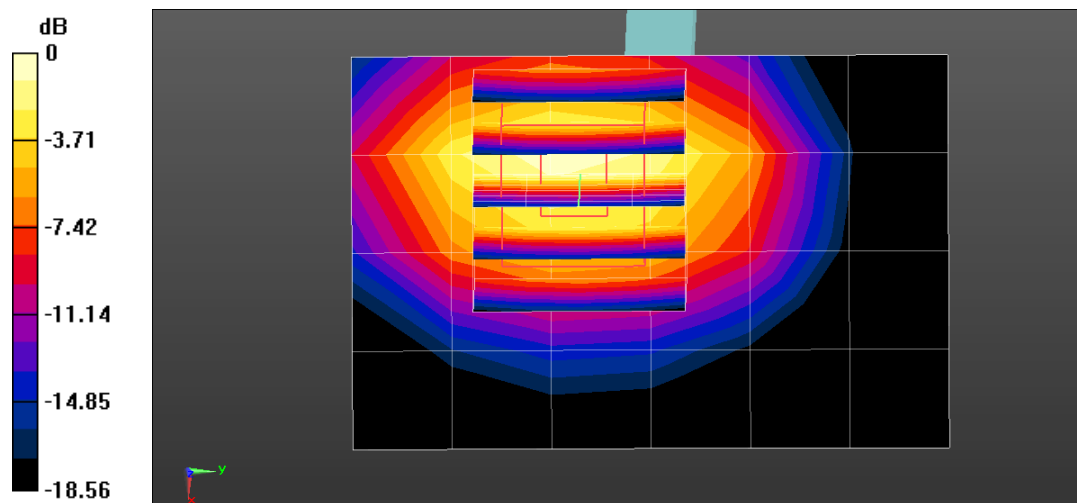
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 40.706$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.55, 8.06, 7.74) @ 1900 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2024-01-17
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.00 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 29.51 V/m; Power Drift = 0.11 dB
 Peak SAR (extrapolated) = 3.85 W/kg
SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.08 W/kg
 Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 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: 09/23/2024
Band: NR FDD Band n30_ANT. B(Main 2)

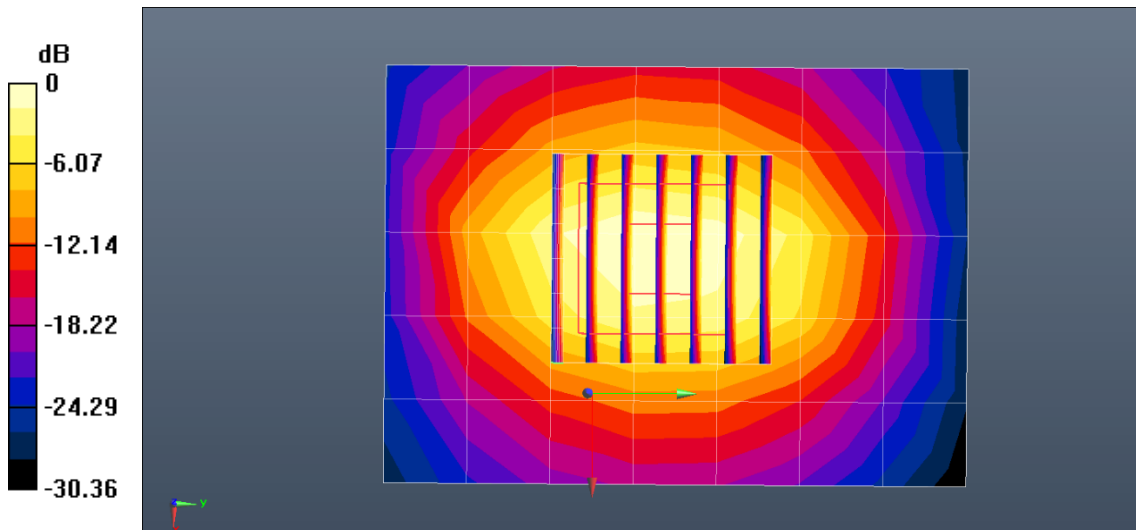
Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2300 \text{ MHz}$; $\sigma = 1.687 \text{ S/m}$; $\epsilon_r = 39.073$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.82, 7.7, 7.46) @ 2300 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2300MHz Head Verification/Area Scan (6x8x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
 Maximum value of SAR (measured) = 3.19 W/kg

2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 48.43 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 4.40 W/kg
SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.11 W/kg
 Maximum value of SAR (measured) = 3.71 W/kg



0 dB = 3.19 W/kg = 5.04 dBW/kg

■ Verification Data (2 600 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.7 °C
Test Date: 12/11/2024
Band: NR TDD Band n41_ANT. B(Main 2)

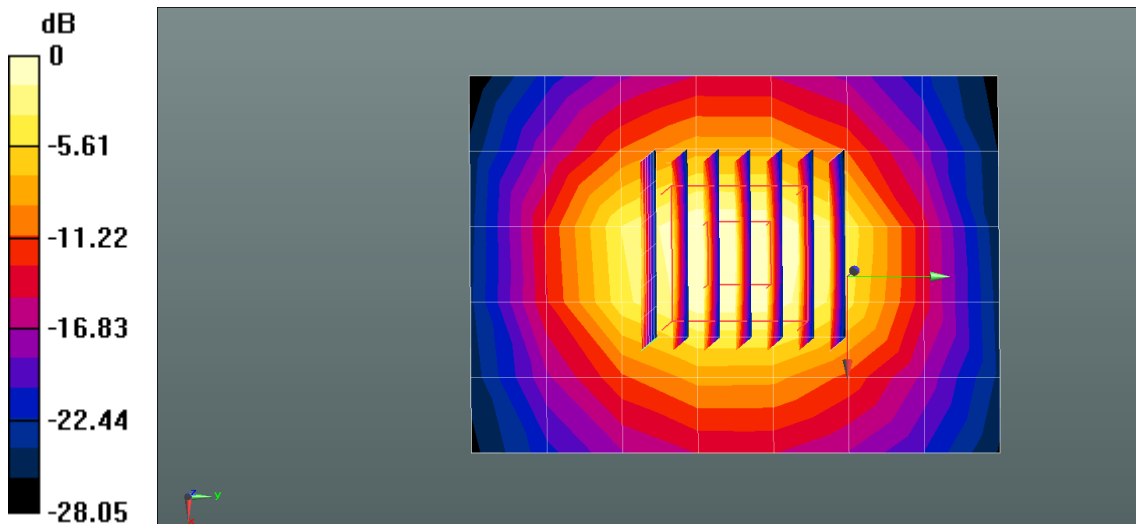
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.031$ S/m; $\epsilon_r = 38.035$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.55, 7.4, 7.17) @ 2600 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2600MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 3.27 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 51.52 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 5.70 W/kg
SAR(1 g) = 2.82 W/kg; SAR(10 g) = 1.28 W/kg
 Maximum value of SAR (measured) = 4.70 W/kg



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

■ Verification Data (3 500 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.6 °C
Test Date: 12/10/2024
Band: NR TDD Band n48_ANT. E(Sub 3)

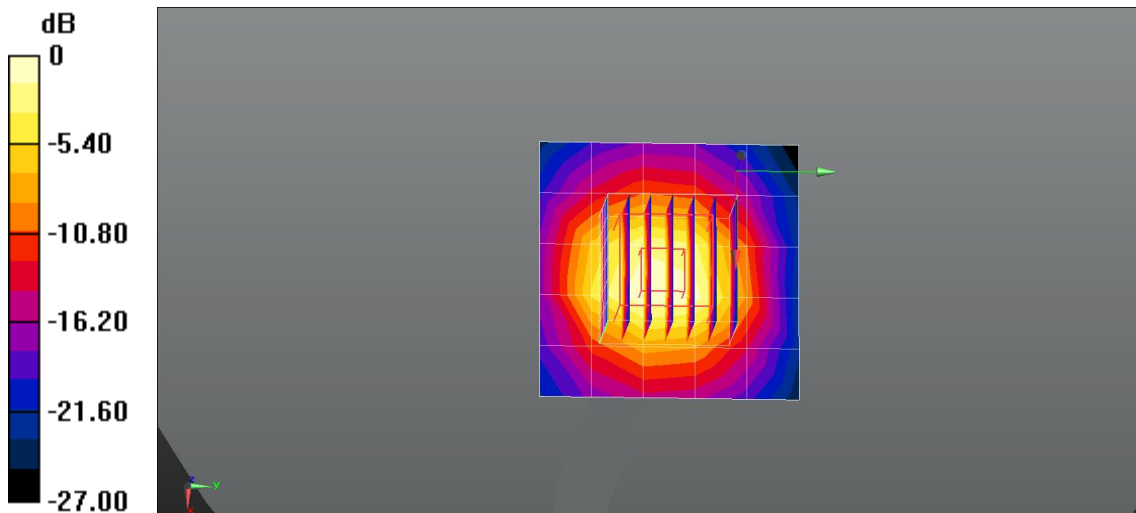
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.897$ S/m; $\epsilon_r = 37.915$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.25, 7.05, 6.83) @ 3500 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 5.18 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 50.00 V/m; Power Drift = -0.09 dB
 Peak SAR (extrapolated) = 9.09 W/kg
SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.33 W/kg
 Maximum value of SAR (measured) = 6.72 W/kg



0 dB = 5.18 W/kg = 7.14 dBW/kg

■ Verification Data (3 500 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.5 °C
Test Date: 12/23/2024
Band: NR TDD Band n48(SRS_Head)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)

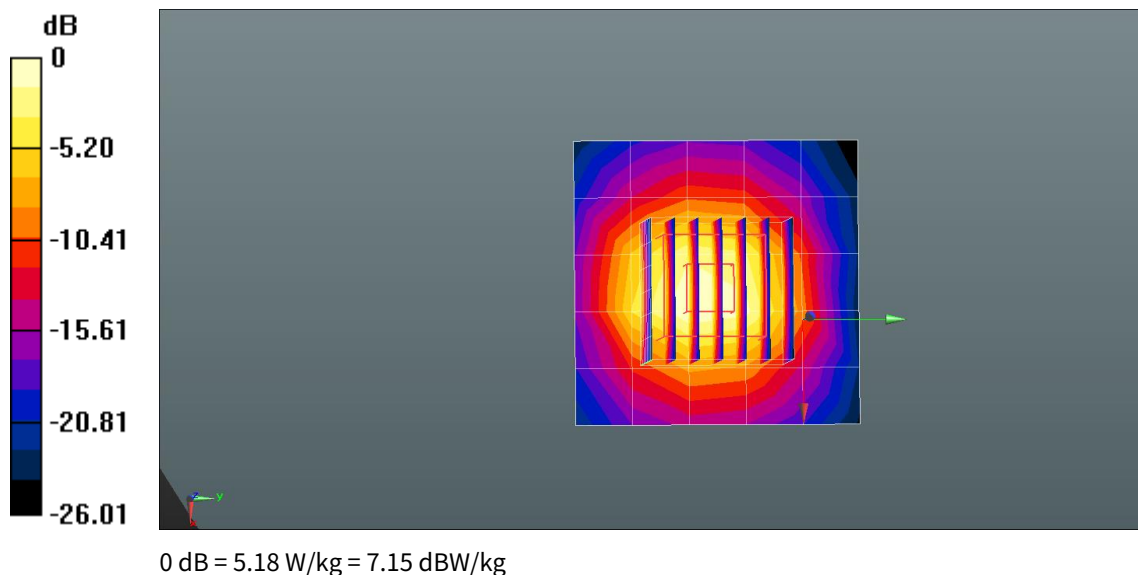
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.917$ S/m; $\epsilon_r = 36.64$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.25, 7.05, 6.83) @ 3500 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 5.18 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 50.12 V/m; Power Drift = -0.08 dB
 Peak SAR (extrapolated) = 9.12 W/kg
SAR(1 g) = 3.51 W/kg; SAR(10 g) = 1.34 W/kg
 Maximum value of SAR (measured) = 6.76 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: 12/24/2024
Band: NR TDD Band n48(SRS_Body)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)

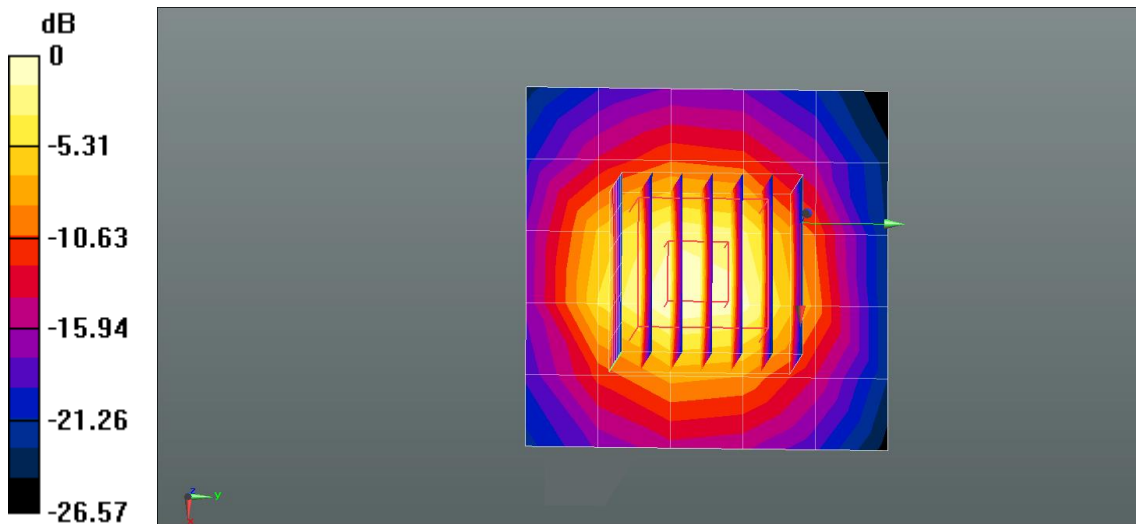
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.899$ S/m; $\epsilon_r = 36.813$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.25, 7.05, 6.83) @ 3500 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 5.17 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 50.33 V/m; Power Drift = -0.10 dB
 Peak SAR (extrapolated) = 9.19 W/kg
SAR(1 g) = 3.5 W/kg; SAR(10 g) = 1.33 W/kg
 Maximum value of SAR (measured) = 6.81 W/kg



0 dB = 5.17 W/kg = 7.13 dBW/kg

■ Verification Data (3 500 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 °C
Test Date: 12/12/2024
Band: NR TDD Band n77_ANT. E(Sub 3)

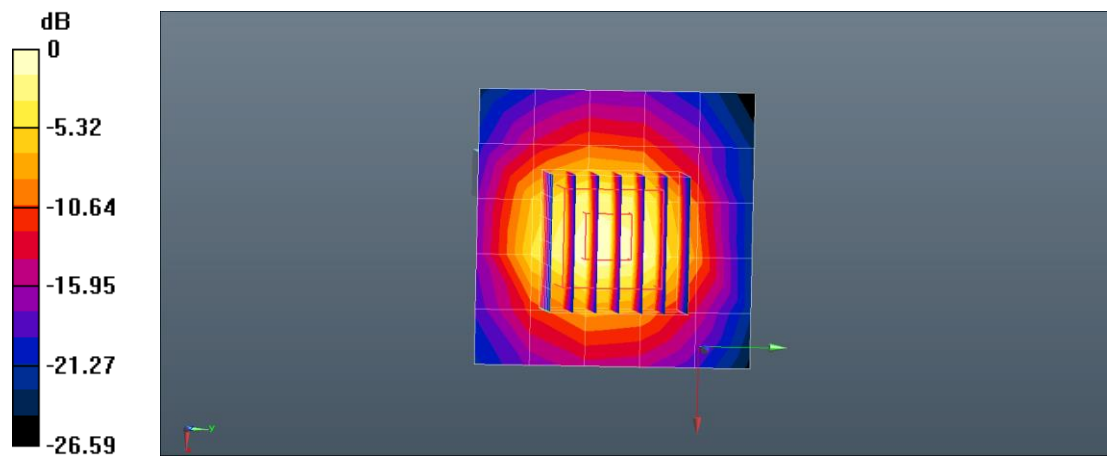
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500 \text{ MHz}$; $\sigma = 2.934 \text{ S/m}$; $\epsilon_r = 36.636$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.25, 7.05, 6.83) @ 3500 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
 Maximum value of SAR (measured) = 5.20 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$
 Reference Value = 50.24 V/m; Power Drift = -0.09 dB
 Peak SAR (extrapolated) = 9.15 W/kg
SAR(1 g) = 3.52 W/kg; SAR(10 g) = 1.35 W/kg
 Maximum value of SAR (measured) = 6.78 W/kg



0 dB = 5.20 W/kg = 7.16 dBW/kg

■ Verification Data (3 500 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.7 °C
Test Date: 12/23/2024
Band: NR TDD Band n77(SRS_Head)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)
Measurement Report for Device, , , CW, Channel 0 (3500.000 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	3500.000, 0	6.44	2.92	36.6

Hardware Setup

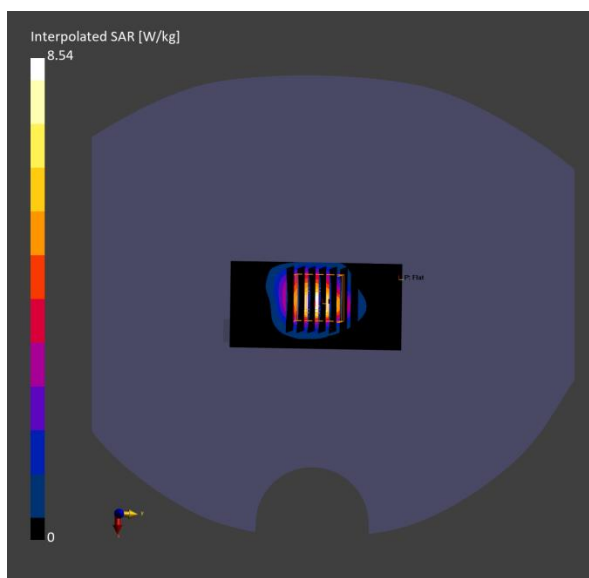
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.10	3.34
psSAR10g [W/Kg]	1.20	1.27
Power Drift [dB]	-0.00	0.08



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

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.8 °C
Test Date: 12/24/2024
Band: NR TDD Band n77(SRS_Body)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)
Measurement Report for Device, , , CW, Channel 0 (3500.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		3500.000, 0	6.44	2.90	36.8

Hardware Setup

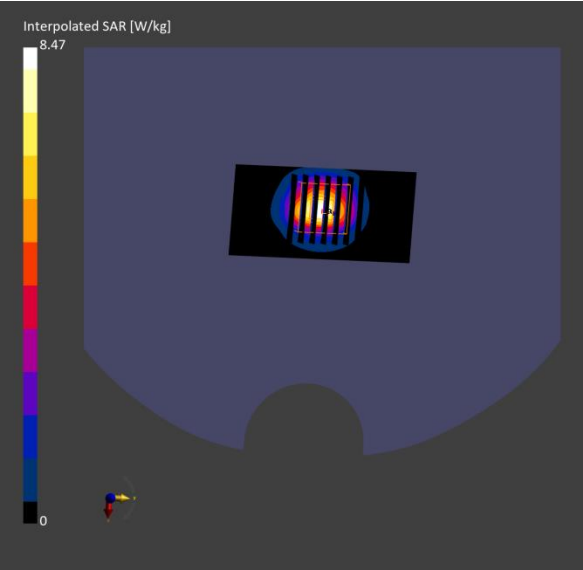
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.07	3.29
psSAR10g [W/Kg]	1.19	1.26
Power Drift [dB]	-0.01	0.01



■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.6 °C
Test Date: 12/10/2024
Band: NR TDD Band n48_ANT. E(Sub 3)

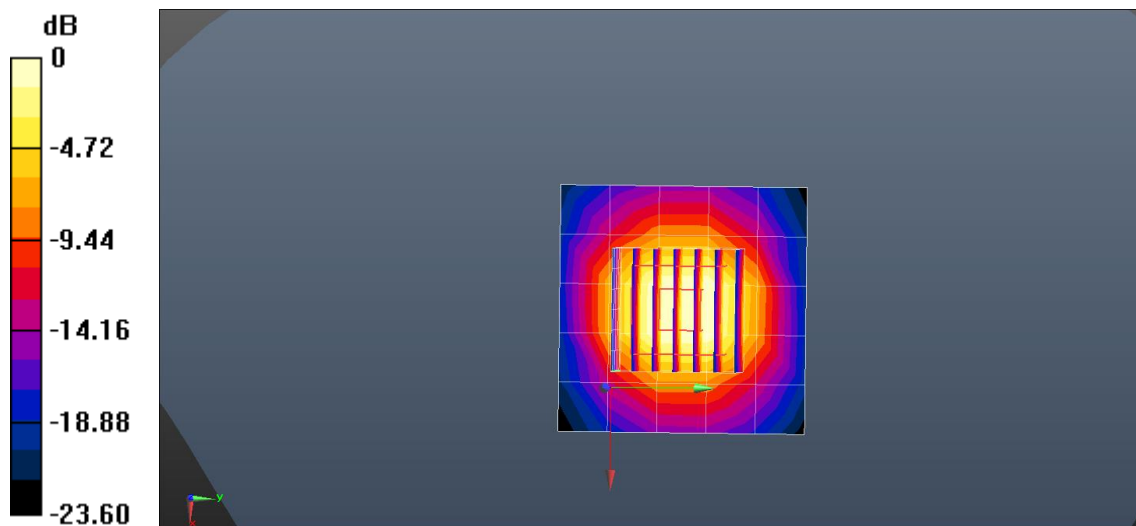
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.086$ S/m; $\epsilon_r = 37.586$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.22, 7.03, 6.81) @ 3700 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3700MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 3.50 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 47.97 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 8.24 W/kg
SAR(1 g) = 3.14 W/kg; SAR(10 g) = 1.17 W/kg
 Maximum value of SAR (measured) = 6.18 W/kg



0 dB = 3.50 W/kg = 5.44 dBW/kg

■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.5 °C
Test Date: 12/23/2024
Band: NR TDD Band n48(SRS_Head)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)

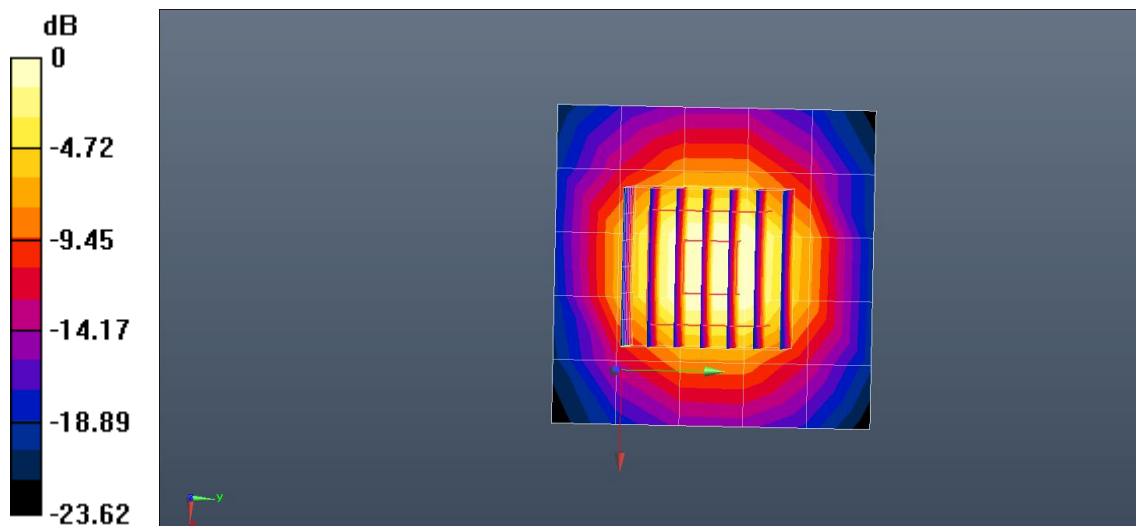
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.07$ S/m; $\epsilon_r = 36.393$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.22, 7.03, 6.81) @ 3700 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3700MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 3.48 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 47.78 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 8.22 W/kg
SAR(1 g) = 3.12 W/kg; SAR(10 g) = 1.16 W/kg
 Maximum value of SAR (measured) = 6.14 W/kg



0 dB = 3.48 W/kg = 5.41 dBW/kg

■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.5 °C
Test Date: 12/23/2024
Band: NR TDD Band n48(SRS_Body)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)

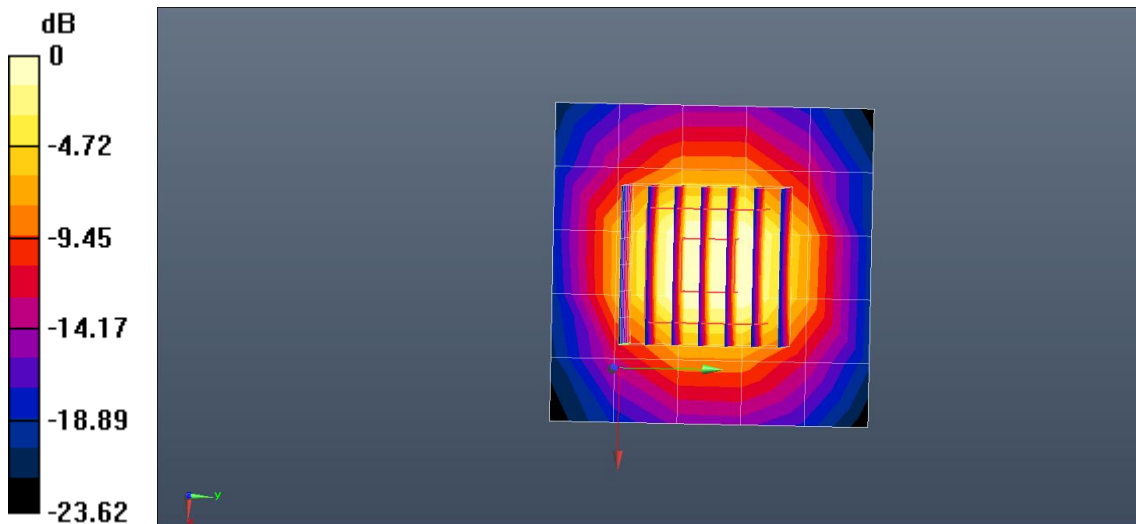
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.07$ S/m; $\epsilon_r = 36.393$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.22, 7.03, 6.81) @ 3700 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3700MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 3.48 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 47.78 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 8.22 W/kg
SAR(1 g) = 3.12 W/kg; SAR(10 g) = 1.16 W/kg
 Maximum value of SAR (measured) = 6.14 W/kg



0 dB = 3.48 W/kg = 5.41 dBW/kg

■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 °C
Test Date: 12/12/2024
Band: NR TDD Band n77_ANT. E(Sub 3)

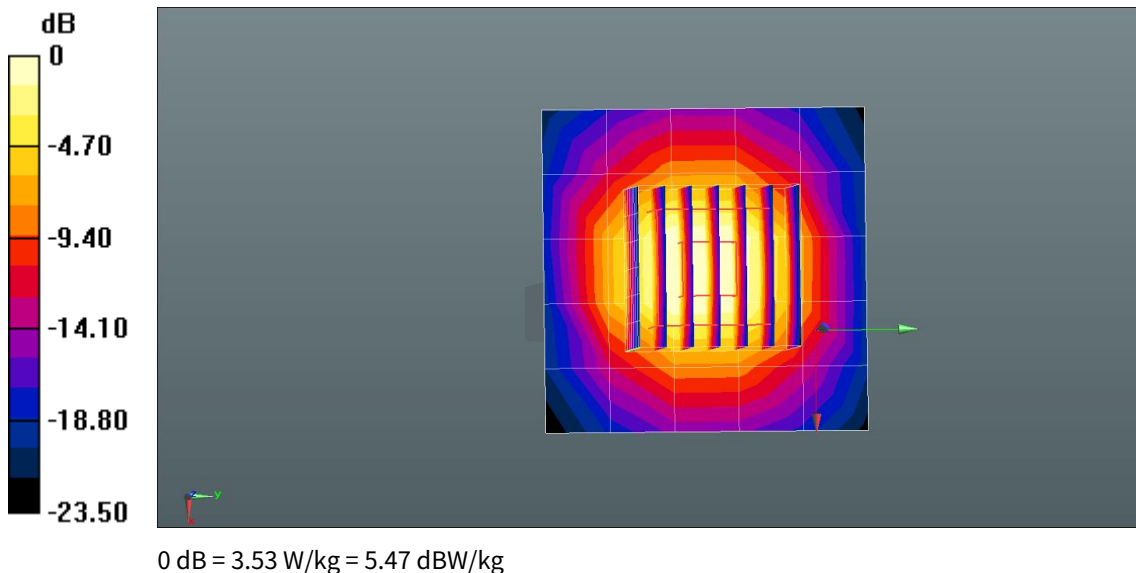
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 3.085 \text{ S/m}$; $\epsilon_r = 36.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.22, 7.03, 6.81) @ 3700 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3700MHz Head Verification/Area Scan (6x6x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
 Maximum value of SAR (measured) = 3.53 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$
 Reference Value = 48.03 V/m; Power Drift = -0.06 dB
 Peak SAR (extrapolated) = 8.23 W/kg
SAR(1 g) = 3.14 W/kg; SAR(10 g) = 1.16 W/kg
 Maximum value of SAR (measured) = 6.17 W/kg



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

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.7 °C
Test Date: 12/23/2024
Band: NR TDD Band n77(SRS_Head)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)
Measurement Report for Device, , CW, Channel 0 (3700.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		3700.000, 0	6.33	3.07	36.3

Hardware Setup

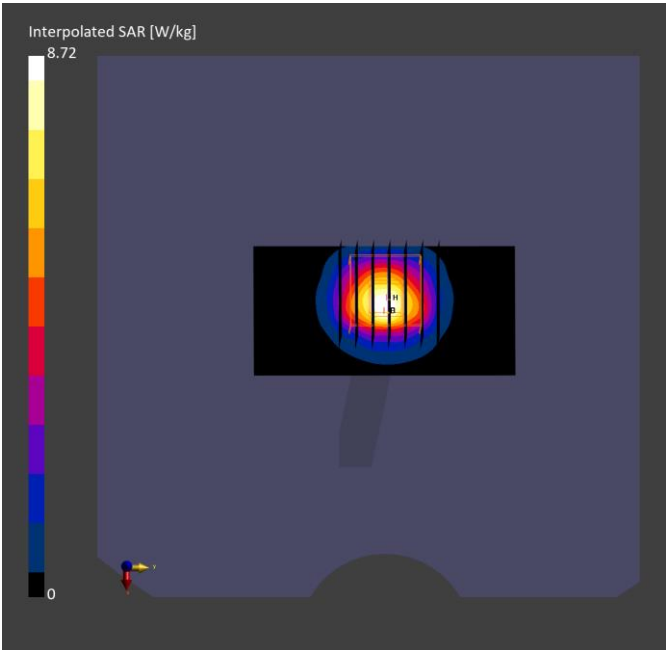
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.03	3.25
psSAR10g [W/Kg]	1.16	1.21
Power Drift [dB]	-0.01	-0.01



■ Verification Data (3 700 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.8 °C
Test Date: 12/24/2024
Band: NR TDD Band n77(SRS_Body)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)
Measurement Report for Device, , CW, Channel 0 (3700.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		3700.000, 0	6.33	3.05	36.6

Hardware Setup

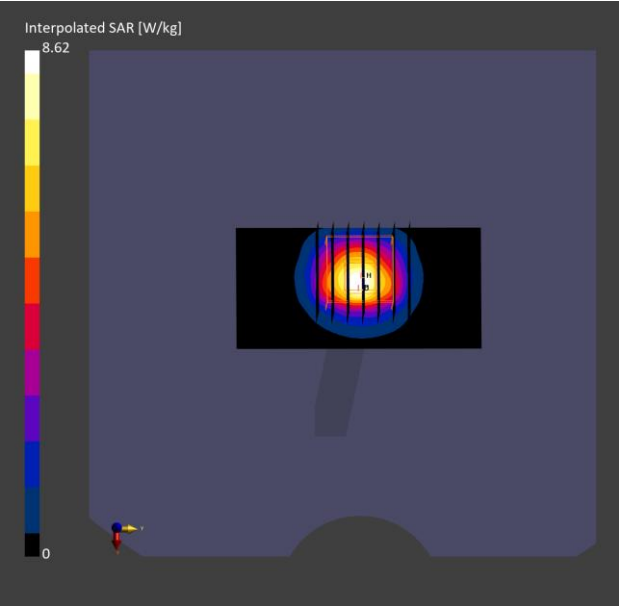
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.01	3.22
psSAR10g [W/Kg]	1.16	1.20
Power Drift [dB]	0.00	-0.02



■ Verification Data (3 900 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 °C
Test Date: 12/12/2024
Band: NR TDD Band n77_ANT. E(Sub 3)

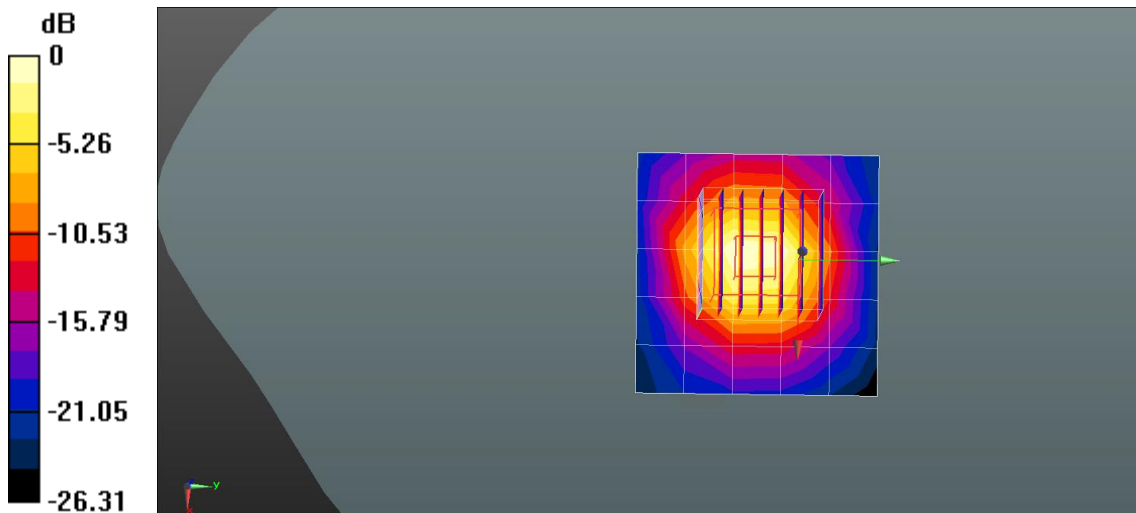
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.085$ S/m; $\epsilon_r = 36.4$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(6.22, 7.03, 6.81) @ 3700 MHz; Calibrated: 2024-08-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2024-04-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

3900MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 5.16 W/kg

3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 45.82 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 9.36 W/kg
SAR(1 g) = 3.23 W/kg; SAR(10 g) = 1.12 W/kg
 Maximum value of SAR (measured) = 6.75 W/kg



0 dB = 5.16 W/kg = 7.12 dBW/kg

■ **Verification Data (3 900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.7 °C
Test Date: 12/23/2024
Band: NR TDD Band n77(SRS_Head)_ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)
Measurement Report for Device, , CW, Channel 0 (3900.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		3900.000, 0	6.25	3.33	36.2

Hardware Setup

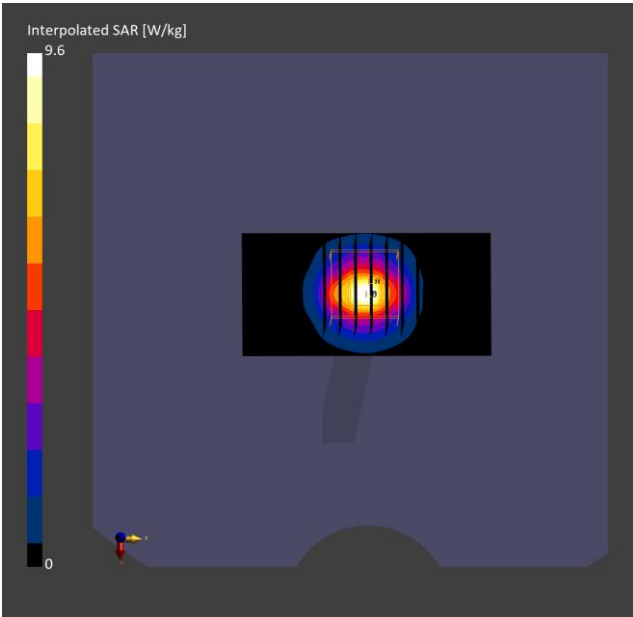
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.26	3.39
psSAR10g [W/Kg]	1.13	1.20
Power Drift [dB]	-0.05	0.02



■ **Verification Data (3 900 MHz Head)**

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.8 °C
Test Date: 12/24/2024
Band: NR TDD Band n77(SRS_Body)ANT. H(Sub 6), ANT. B(Main 2), ANT. I(Sub 7)
Measurement Report for Device, , CW, Channel 0 (3900.000 MHz)
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL ,		CW, 0--		3900.000, 0	6.25	3.31	36.5

Hardware Setup

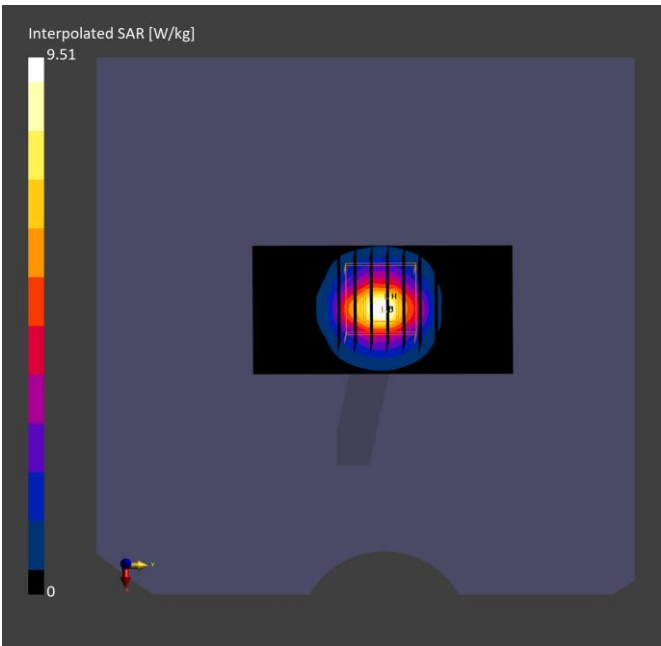
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt)	EX3DV4 - SN7751, 2024-09-19	DAE4ip Sn1866, 2024-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.22	3.37
psSAR10g [W/Kg]	1.12	1.20
Power Drift [dB]	-0.00	-0.10



■ Verification Data (13 MHz Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 23.3 °C
Test Date: 01/07/2025
Band: NFC

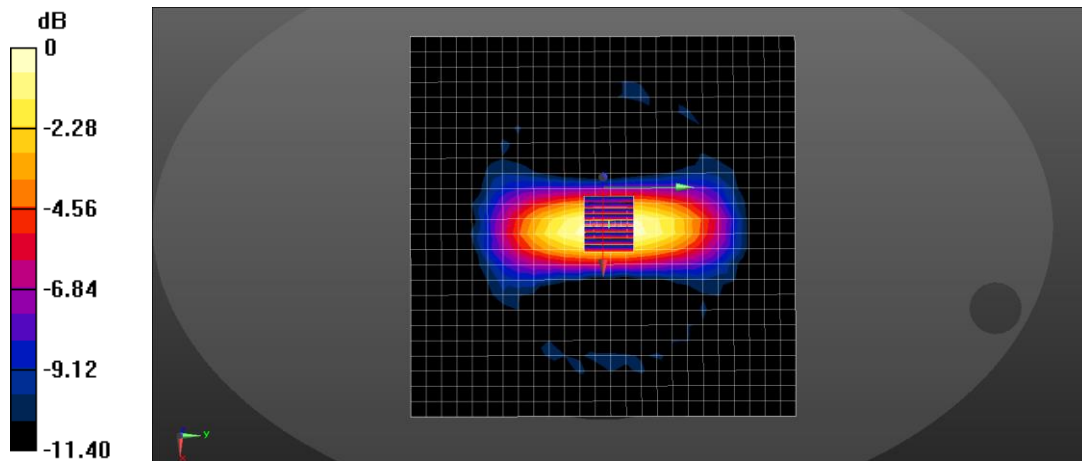
Communication System: UID 0, CW (0); Frequency: 13 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 13 \text{ MHz}$; $\sigma = 0.735 \text{ S/m}$; $\epsilon_r = 54.501$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.39, 5.7, 6.16) @ 13 MHz; Calibrated: 2024-07-17
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2024-03-15
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

13MHz Head Verification/Area Scan (26x26x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.0324 W/kg

13MHz Head Verification/Zoom Scan (9x9x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$,
 $dz=1.4\text{mm}$
 Reference Value = 7.397 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.0590 W/kg
SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.018 W/kg
 Maximum value of SAR (measured) = 0.0338 W/kg



0 dB = 0.0338 W/kg = -14.71 dBW/kg

Appendix D. – SAR Tissue Characterization

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

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

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

Composition of the Tissue Equivalent Matter

Appendix E. – SAR System Validation

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

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

SAR System No.	Probe	Probe Type	Probe Calibration Point	Dipole	Date	Dielectric Parameters		CW Validation			Modulation Validation			
						Measured Permittivity	Measured Conductivity	Sensitivity	Probe Linearity	Probe Isotropy	MOD. Type	Duty Factor	PAR	
16	7751	EX3DV4	Head	750	1014	2024-10-01	42.1	0.88	PASS	PASS	PASS	N/A	N/A	N/A
11	7655	EX3DV4	Head	750	1014	2024-06-11	42.0	0.90	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	835	441	2024-10-01	41.6	0.91	PASS	PASS	PASS	N/A	N/A	N/A
6	7370	EX3DV4	Head	835	441	2024-08-23	41.7	0.92	PASS	PASS	PASS	GMSK	PASS	N/A
2	3797	EX3DV4	Head	835	441	2024-04-27	41.6	0.89	PASS	PASS	PASS	N/A	N/A	N/A
11	7655	EX3DV4	Head	835	441	2024-06-11	41.7	0.92	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	1750	2d007	2024-10-01	40.2	1.37	PASS	PASS	PASS	N/A	N/A	N/A
2	3797	EX3DV4	Head	1750	2d007	2024-04-20	40.1	1.39	PASS	PASS	PASS	N/A	N/A	N/A
11	7655	EX3DV4	Head	1750	2d007	2024-06-11	40.2	1.39	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	1900	5d032	2024-10-01	39.9	1.42	PASS	PASS	PASS	N/A	N/A	N/A
11	7655	EX3DV4	Head	1900	5d032	2024-06-11	39.9	1.42	PASS	PASS	PASS	N/A	N/A	N/A
6	7370	EX3DV4	Head	1900	5d032	2024-08-23	39.9	1.42	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	2300	1010	2024-10-01	39.3	1.71	PASS	PASS	PASS	N/A	N/A	N/A
6	7370	EX3DV4	Head	2300	1010	2024-08-23	39.7	1.69	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	2450	743	2024-10-01	39.1	1.84	PASS	PASS	PASS	OFDM	N/A	PASS
16	7751	EX3DV4	Head	2600	1015	2024-10-01	38.7	1.93	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	2600	1015	2024-10-01	38.7	1.93	PASS	PASS	PASS	TDD	PASS	N/A
6	7370	EX3DV4	Head	2600	1015	2024-08-23	39.2	1.98	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	3500	1132	2024-10-01	38.1	2.93	PASS	PASS	PASS	TDD	PASS	N/A
16	7751	EX3DV4	Head	3500	1132	2024-10-01	38.1	2.93	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	3500	1132	2024-08-16	38.1	2.92	PASS	PASS	PASS	N/A	N/A	N/A
6	7370	EX3DV4	Head	3500	1132	2024-08-23	37.8	2.93	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	3700	1105	2024-09-30	37.7	3.17	PASS	PASS	PASS	N/A	N/A	N/A
6	7370	EX3DV4	Head	3700	1105	2024-09-28	37.6	3.11	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	3700	1105	2024-10-01	37.9	3.15	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	3900	1086	2024-08-01	37.3	3.38	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	3900	1086	2024-10-01	37.7	3.30	PASS	PASS	PASS	N/A	N/A	N/A
16	7751	EX3DV4	Head	5250	1107	2024-10-01	35.9	4.71	PASS	PASS	PASS	OFDM	N/A	PASS
16	7751	EX3DV4	Head	5600	1107	2024-10-01	35.4	5.10	PASS	PASS	PASS	OFDM	N/A	PASS
16	7751	EX3DV4	Head	5750	1107	2024-10-01	35.2	5.26	PASS	PASS	PASS	OFDM	N/A	PASS
16	7751	EX3DV4	Head	5800	1107	2024-10-01	35.1	5.28	PASS	PASS	PASS	OFDM	N/A	PASS

SAR System Validation Summary

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.