

Appendix B. – SAR Test Plots

EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/02/2025
Band: UMTS Band 4_ Ant I
Plot No.: A1
Measurement Report for Device, CHEEK, Band 4, UMTS-FDD (WCDMA), Channel 1412 (1732.400 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, Head Simulating Liquid	CHEEK, 0.00	Band 4	WCDMA, 10011-CAC	1732.400, 1412	8.05	1.37	41.0

Hardware Setup

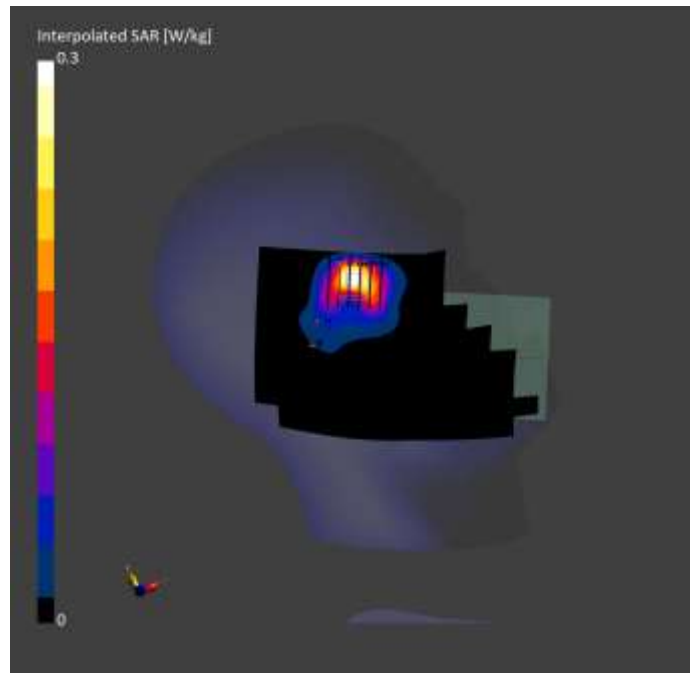
Phantom Probe, Calibration Date DAE, Calibration Date
 Twin-SAM V8.0 (30deg probe tilt) - 2050 EX3DV4 - SN7681, 2024-11-22 DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.248	0.283
psSAR10g [W/Kg]	0.120	0.127
Power Drift [dB]	-0.13	-0.03



EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/02/2025
Band: UMTS Band 2_ Ant I
Plot No.: A2
Measurement Report for Device, CHEEK, Band 2, UMTS-FDD (WCDMA), Channel 9400 (1880.000 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, Head Simulating Liquid	CHEEK, 0.00	Band 2	WCDMA, 10011-CAC	1880.000, 9400	7.81	1.43	40.6

Hardware Setup

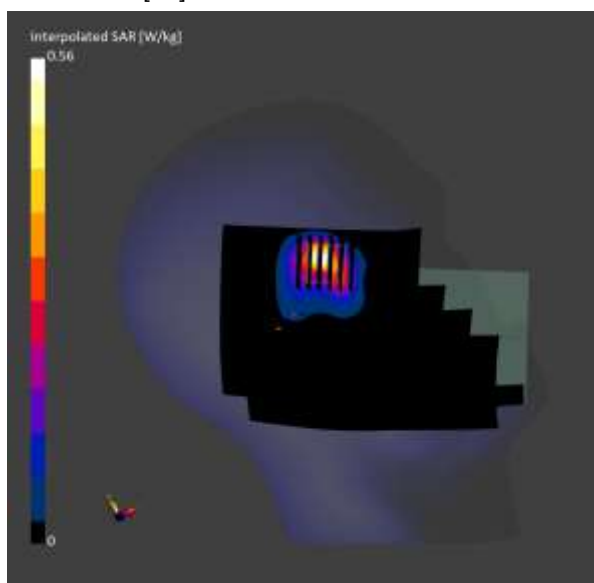
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.191	0.215
psSAR10g [W/Kg]	0.090	0.091
Power Drift [dB]	0.13	0.14



EUT Type: Mobile Phone
Ambient Temperature: 22.0 °C
Liquid Temperature: 21.9 °C
Test Date: 05/03/2025
Band: LTE Band 7_Ant I
Plot No.: A3

Measurement Report for Device, CHEEK, Band 7, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK), 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, Head Simulating Liquid	CHEEK, 0.00	Band 7	LTE-FDD, 10297-AAE	2510.000, 20850	7.32	1.81	40.3

Hardware Setup

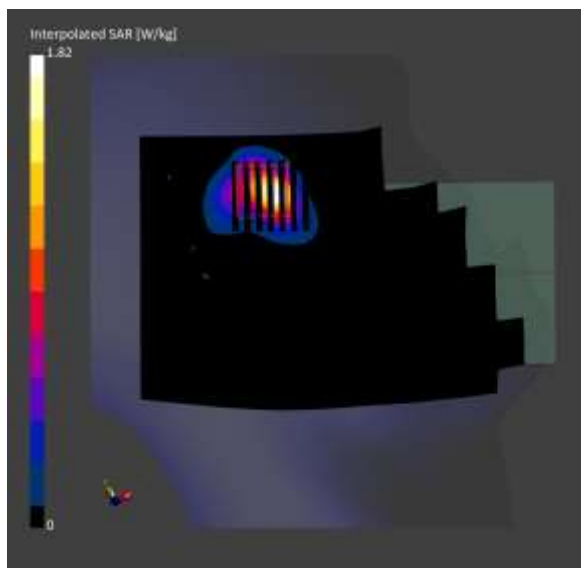
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.589	0.638
psSAR10g [W/Kg]	0.245	0.241
Power Drift [dB]	0.05	0.11



EUT Type: Mobile Phone
 Ambient Temperature: 21.6 °C
 Liquid Temperature: 21.5 °C
 Test Date: 05/02/2025
 Band: LTE Band 25_ Ant I
 Plot No.: A4

Measurement Report for Device, CHEEK, Band 25, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK), Channel 26140 (1860.000 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, Head Simulating Liquid	CHEEK, 0.00	Band 25	LTE-FDD, 10169-CAF	1860.000, 26140	7.81	1.42	40.7

Hardware Setup

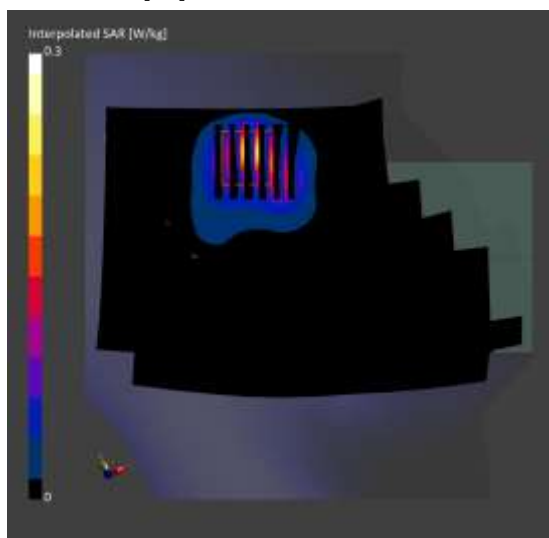
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.168	0.199
psSAR10g [W/Kg]	0.082	0.087
Power Drift [dB]	0.13	-0.17



EUT Type: Mobile Phone
Ambient Temperature: 22.0 °C
Liquid Temperature: 21.9 °C
Test Date: 05/03/2025
Band: LTE Band 30_ Ant I
Plot No.: A5

Measurement Report for Device, CHEEK, Band 30, LTE-FDD (SC-FDMA, 100% 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, Head Simulating Liquid	CHEEK, 0.00	Band 30	LTE-FDD, 10108-CAH	2310.000, 27710	7.64	1.67	39.0

Hardware Setup

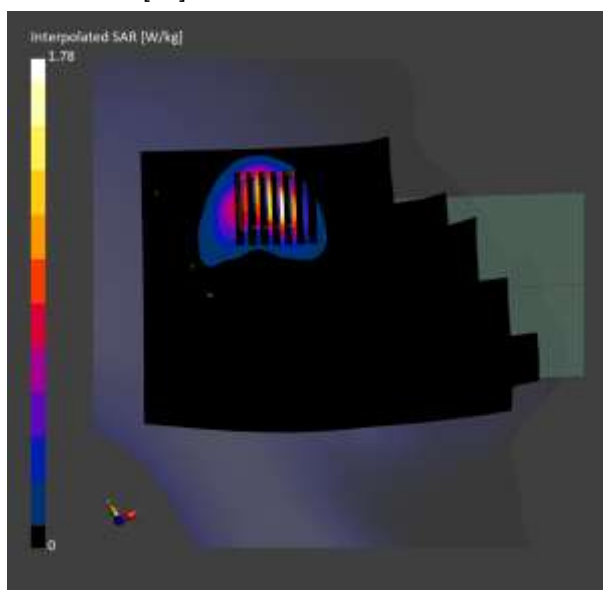
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.514	0.641
psSAR10g [W/Kg]	0.232	0.245
Power Drift [dB]	-0.08	0.13



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/04/2025
Band: LTE Band 41_ Ant I
Plot No.: A6

Measurement Report for Device, CHEEK, Band 41, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 40185 (2549.500 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, Head Simulating Liquid	CHEEK, 0.00	Band 41	LTE-TDD, 10151-CAH	2549.500, 40185	7.32	1.90	40.5

Hardware Setup

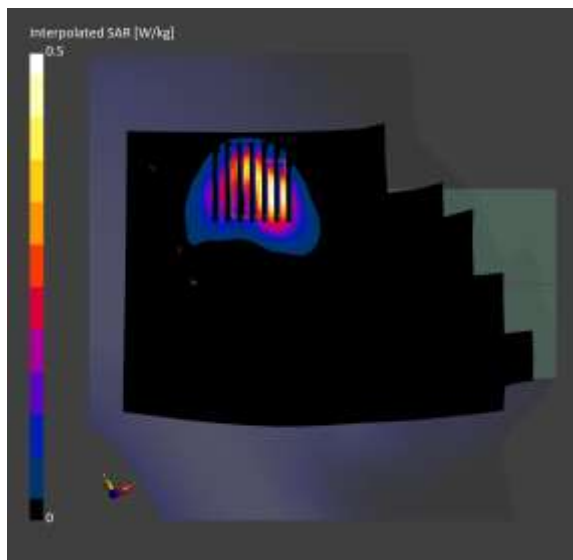
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.396	0.474
psSAR10g [W/Kg]	0.161	0.182
Power Drift [dB]	-0.02	-0.10



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/04/2025
Band: LTE Band 66_Ant I
Plot No.: A7

Measurement Report for Device, CHEEK, Band 66, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
RBPosition:Mid AntennaCfg:SISO, Channel 132572 (1770.000 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, Head Simulating Liquid	CHEEK, 0.00	Band 66	LTE-FDD, 10297-AAE	1770.000, 132572	8.05	1.39	40.9

Hardware Setup

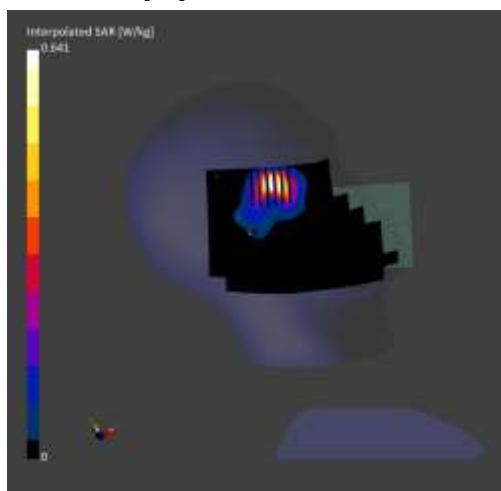
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.254	0.271
psSAR10g [W/Kg]	0.125	0.124
Power Drift [dB]	0.07	0.16



EUT Type: Mobile Phone
Ambient Temperature: 20.8 °C
Liquid Temperature: 20.7 °C
Test Date: 05/16/2025
Band: NR Band n5_ Ant A
Plot No.: A8

Measurement Report for Device, CHEEK, Band n5, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)
RBPosition:Mid AntennaCfg:SISO, Channel 167300 (836.500 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 Simulating Liquid	CHEEK, 0.00	Band n5	5G NR FR1 FDD, 10931-AAC	836.500, 167300	9.33	0.938	42.5

Hardware Setup

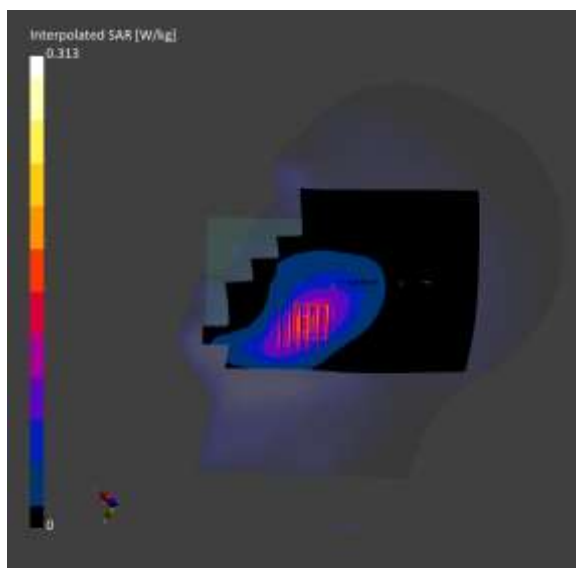
Phantom Probe, Calibration Date DAE, Calibration Date
 Twin-SAM V8.0 (30deg probe tilt) - 2050 EX3DV4 - SN7681, 2024-11-22 DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.120	0.239
psSAR10g [W/Kg]	0.078	0.168
Power Drift [dB]	0.07	0.11



EUT Type: Mobile Phone
Ambient Temperature: 22.1 °C
Liquid Temperature: 22.0 °C
Test Date: 05/05/2025
Band: NR Band n7_ Ant I
Plot No.: A9
Measurement Report for Device, CHEEK, Band n7, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 507000 (2535.000 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, Head Simulating Liquid	CHEEK, 0.00	Band n7	5G NR FR1 FDD, 10934-AAC	2535.000, 507000	7.32	1.90	38.3

Hardware Setup

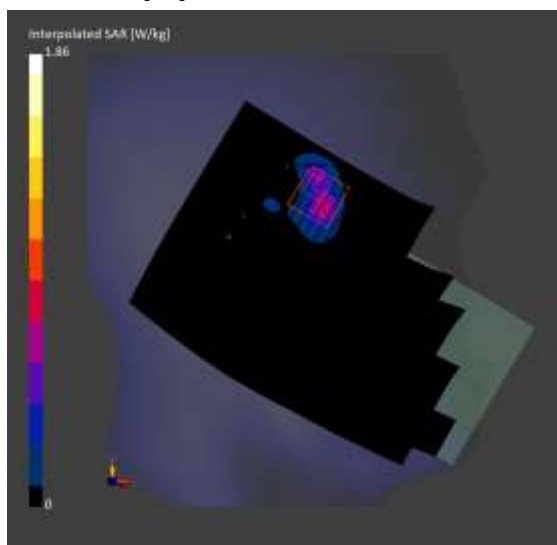
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.523	0.697
psSAR10g [W/Kg]	0.219	0.263
Power Drift [dB]	-0.19	-0.03



EUT Type: Mobile Phone
Ambient Temperature: 22.1 °C
Liquid Temperature: 22.0 °C
Test Date: 05/05/2025
Band: NR Band n25_ Ant I
Plot No.: A10

Measurement Report for Device, CHEEK, Band n25, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 376500 (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, Head Simulating Liquid	CHEEK, 0.00	Band n25	5G NR FR1 FDD, 10934-AAC	1882.500, 376500	7.81	1.39	40.4

Hardware Setup

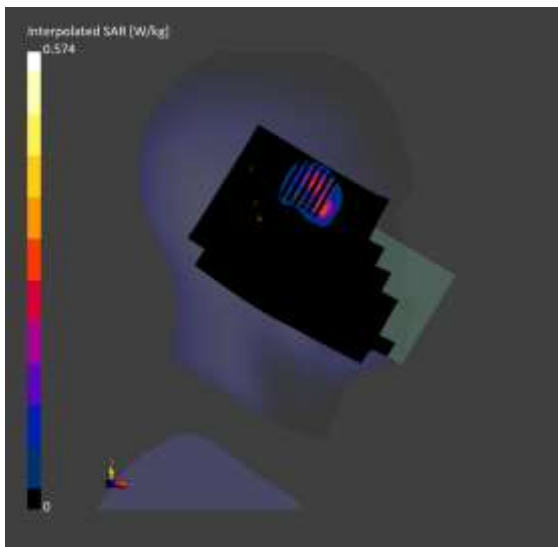
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.230	0.235
psSAR10g [W/Kg]	0.117	0.099
Power Drift [dB]	0.01	-0.08



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/06/2025
Band: NR Band n30_Ant I
Plot No.: A11

Measurement Report for Device, CHEEK, Band n30, 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 462000 (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, Head Simulating Liquid	CHEEK, 0.00	Band n30	5G NR FR1 FDD, 10937-AAD	2310.000, 462000	7.64	1.72	39.0

Hardware Setup

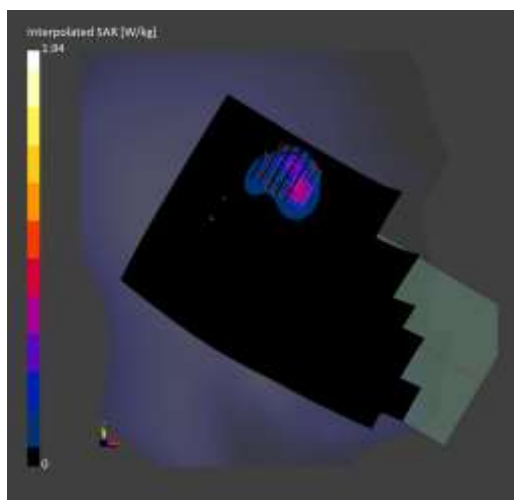
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.519	0.655
psSAR10g [W/Kg]	0.229	0.238
Power Drift [dB]	-0.05	-0.04



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/06/2025
Band: NR Band n38_ Ant I
Plot No.: A12
Measurement Report for Device, CHEEK, Band n38, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) AntennaCfg:SISO, Channel 519000 (2595.000 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, Head Simulating Liquid	CHEEK, 0.00	Band n38	5G NR FR1 TDD, 10903-AAD	2595.000, 519000	7.32	1.97	39.2

Hardware Setup

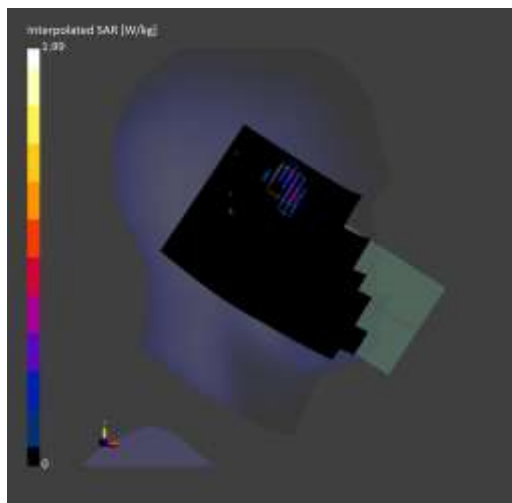
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.504	0.590
psSAR10g [W/Kg]	0.202	0.225
Power Drift [dB]	0.07	0.11



EUT Type: Mobile Phone
Ambient Temperature: 21.9 °C
Liquid Temperature: 21.8 °C
Test Date: 05/31/2025
Band: NR Band n41_ SRS I
Plot No.: A13

Measurement Report for Device, CHEEK, Band n41, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)
RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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, Head Simulating Liquid	CHEEK, 0.00	Band n41	5G NR FR1 TDD, 10866-AAF	2592.990, 518598	7.32	1.97	39.2

Hardware Setup

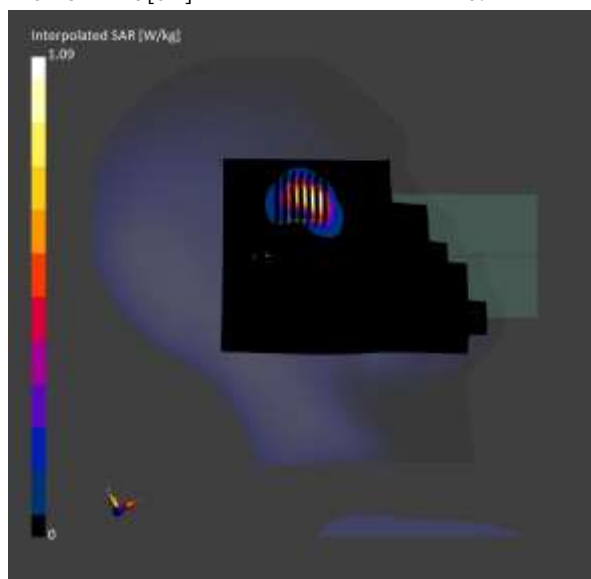
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.297	0.353
psSAR10g [W/Kg]	0.126	0.128
Power Drift [dB]	0.11	0.14



EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 05/07/2025
Band: NR Band n41_ SRS G
Plot No.: A14

Measurement Report for Device, TILT, Band n41, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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 Simulating Liquid	TILT, 0.00	Band n41	5G NR FR1 TDD, 10866-AAF	2592.990, 518598	7.32	2.04	38.5

Hardware Setup

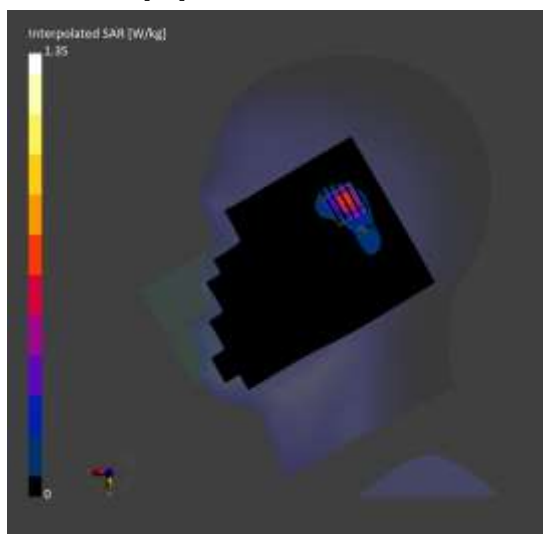
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.529	0.539
psSAR10g [W/Kg]	0.207	0.204
Power Drift [dB]	-0.01	-0.06



EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 05/07/2025
Band: NR Band n66_ Ant I
Plot No.: A15

Measurement Report for Device, CHEEK, Band n66, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 349000 (1745.000 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, Head Simulating Liquid	CHEEK, 0.00	Band n66	5G NR FR1 FDD, 10934-AAC	1745.000, 349000	8.05	1.32	40.8

Hardware Setup

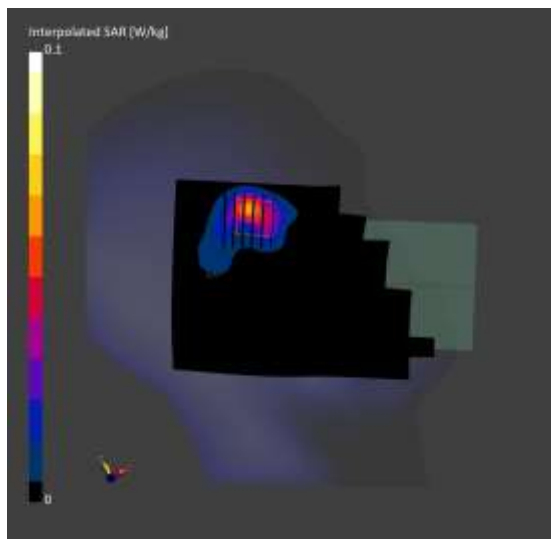
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.049	0.061
psSAR10g [W/Kg]	0.024	0.026
Power Drift [dB]	0.11	-0.10



EUT Type: Mobile Phone
Ambient Temperature: 21.1 °C
Liquid Temperature: 21.0 °C
Test Date: 05/14/2025
Band: NR Band n70_Ant I
Plot No.: A16

Measurement Report for Device, CHEEK, Band n70, 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 340500 (1702.500 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, Head Simulating Liquid	CHEEK, 0.00	Band n70	5G NR FR1 FDD, 10930-AAC	1702.500, 340500	7.63	1.30	40.7

Hardware Setup

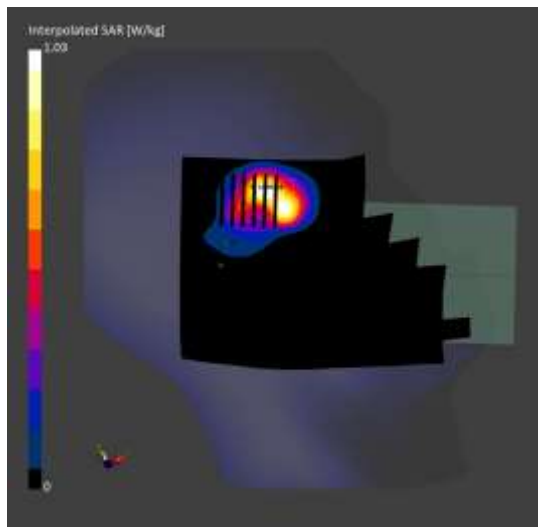
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2049	EX3DV4 - SN7907, 2024-12-27	DAE4 Sn504, 2025-01-17

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]	0.086	0.141
psSAR10g [W/Kg]	0.048	0.053
Power Drift [dB]	0.09	0.13



EUT Type: Mobile Phone
 Ambient Temperature: 21.6 °C
 Liquid Temperature: 21.5 °C
 Test Date: 05/02/2025
 Band: UMTS Band 4_ Ant I
 Plot No.: B1
 Measurement Report for Device, EDGE RIGHT, Band 4, UMTS-FDD (WCDMA), Channel 1412 (1732.400 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 RIGHT, 5.00	Band 4	WCDMA, 10011-CAC	1732.400, 1412	8.05	1.37	41.0

Hardware Setup

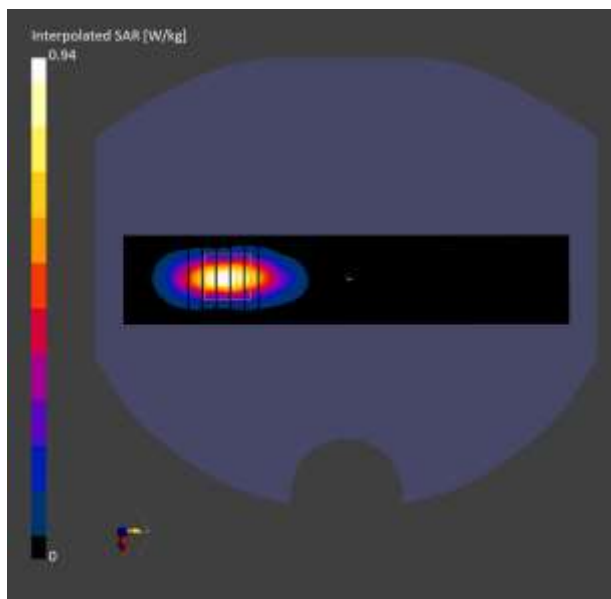
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.467	0.460
psSAR10g [W/Kg]	0.215	0.214
Power Drift [dB]	-0.13	-0.17



EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/02/2025
Band: UMTS Band 2_ Ant I
Plot No.: B2

Measurement Report for Device, EDGE RIGHT, Band 2, UMTS-FDD (WCDMA), Channel 9400 (1880.000 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 RIGHT, 5.00	Band 2	WCDMA, 10011-CAC	1880.000, 9400	7.81	1.42	40.7

Hardware Setup

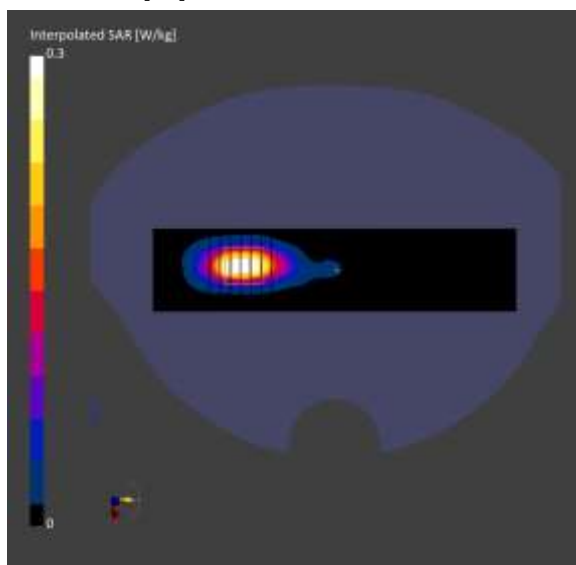
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 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]	0.256	0.267
psSAR10g [W/Kg]	0.121	0.124
Power Drift [dB]	0.11	-0.17



EUT Type: Mobile Phone
Ambient Temperature: 22.0 °C
Liquid Temperature: 21.9 °C
Test Date: 05/03/2025
Band: LTE Band 7_ Ant I
Plot No.: B3

Measurement Report for Device, EDGE RIGHT, 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, Head Simulating Liquid	EDGE RIGHT, 5.00	Band 7	LTE-FDD, 10297-AAE	2510.000, 20850	7.32	1.81	40.3

Hardware Setup

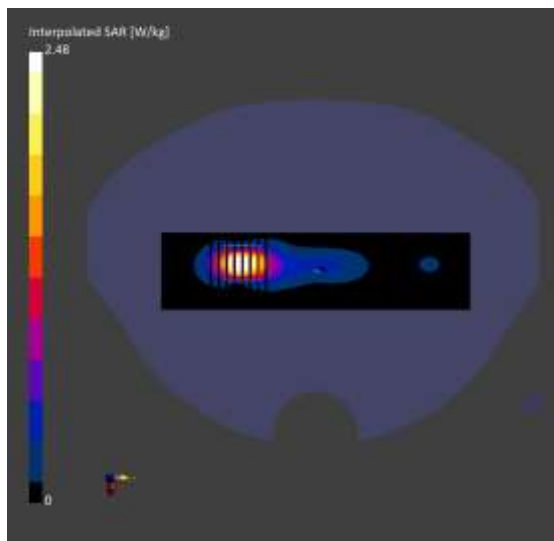
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.00	1.08
psSAR10g [W/Kg]	0.404	0.422
Power Drift [dB]	0.07	-0.19



EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/02/2025
Band: LTE Band 25_ Ant I
Plot No.: B4

Measurement Report for Device, EDGE RIGHT, Band 25, LTE-FDD (SC-FDMA, 1 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, Head Simulating Liquid	EDGE RIGHT, 5.00	Band 25	LTE-FDD, 10169-CAF	1905.000, 26590	7.81	1.44	40.6

Hardware Setup

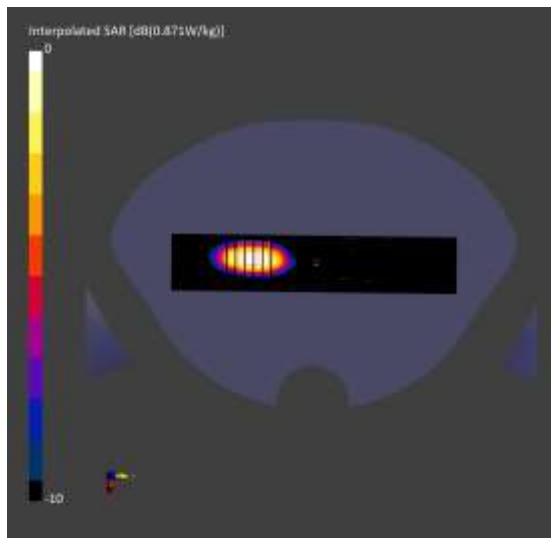
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.418	0.423
psSAR10g [W/Kg]	0.191	0.196
Power Drift [dB]	0.07	-0.11



EUT Type: Mobile Phone
Ambient Temperature: 22.0 °C
Liquid Temperature: 21.9 °C
Test Date: 05/03/2025
Band: LTE Band 30_ Ant I
Plot No.: B5

Measurement Report for Device, EDGE RIGHT, 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, Head Simulating Liquid	EDGE RIGHT, 5.00	Band 30	LTE-FDD, 10154-CAH	2310.000, 27710	7.64	1.67	39.0

Hardware Setup

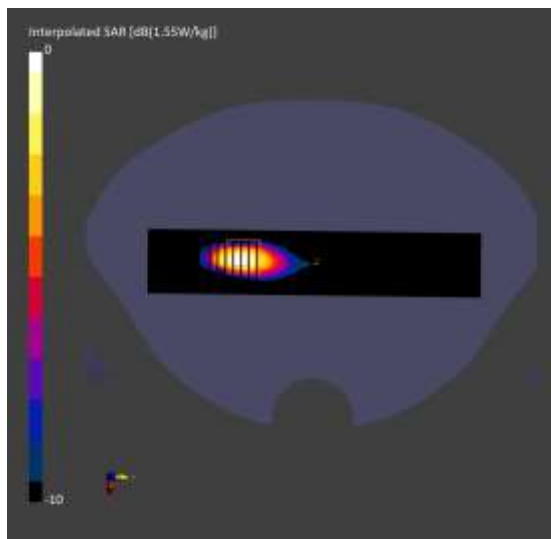
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.629	0.653
psSAR10g [W/Kg]	0.252	0.261
Power Drift [dB]	0.05	-0.18



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/04/2025
Band: LTE Band 41_ Ant I
Plot No.: B6

Measurement Report for Device, EDGE RIGHT, Band 41, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RBPosition:Mid
AntennaCfg:SISO, Channel 41490 (2680.000 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 RIGHT, 5.00	Band 41	LTE-TDD, 10172-CAH	2680.000, 41490	7.32	2.06	40.2

Hardware Setup

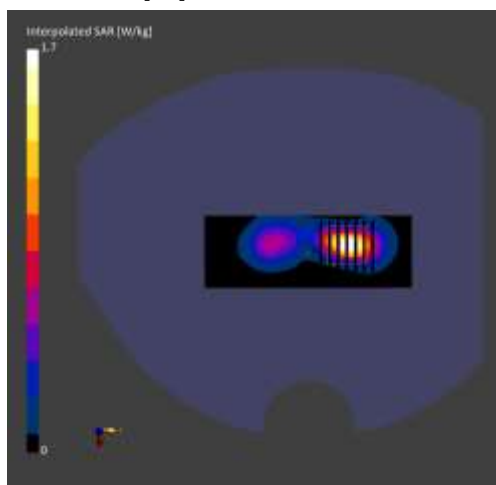
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.726	0.746
psSAR10g [W/Kg]	0.286	0.298
Power Drift [dB]	-0.15	-0.10



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/04/2025
Band: LTE Band 66_Ant I
Plot No.: B7

Measurement Report for Device, BACK, Band 66, LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)
AntennaCfg:SISO, Channel 132572 (1770.000 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	BACK, 5.00	Band 66	LTE-FDD, 10100-CAF	1770.000, 132572	8.05	1.39	40.9

Hardware Setup

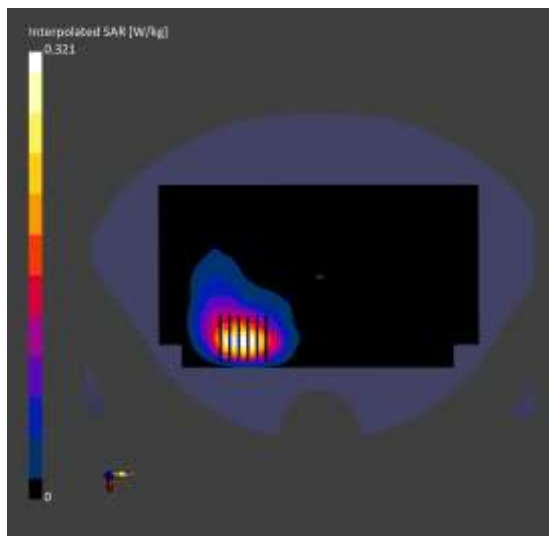
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.141	0.169
psSAR10g [W/Kg]	0.076	0.085
Power Drift [dB]	0.04	-0.19



EUT Type: Mobile Phone
 Ambient Temperature: 21.1 °C
 Liquid Temperature: 21.0 °C
 Test Date: 05/14/2025
 Band: NTN Band 255_Ant G
 Plot No.: B8

Measurement Report for Device, EDGE TOP, Custom Band, CW, Channel 1643500 (1643.500 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, Head Simulating Liquid	EDGE TOP, 5.00	Custom Band	CW, 0--	1643.500, 1643500	7.49	1.27	41.6

Hardware Setup

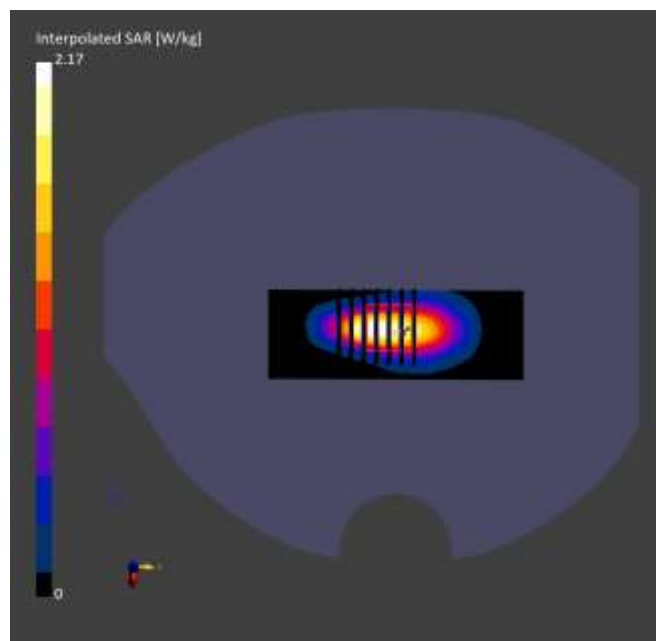
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2049 EX3DV4 - SN7907, 2024-12-27
 Probe, Calibration Date DAE, Calibration Date DAE4 Sn504, 2025-01-17

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 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]	0.612	0.624
psSAR10g [W/Kg]	0.316	0.314
Power Drift [dB]	0.11	0.05



EUT Type: Mobile Phone
Ambient Temperature: 22.1 °C
Liquid Temperature: 22.0 °C
Test Date: 05/05/2025
Band: NR Band n7_ Ant I
Plot No.: B9

Measurement Report for Device, EDGE RIGHT, Band n7, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 507000 (2535.000 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 RIGHT, 5.00	Band n7	5G NR FR1 FDD, 10934-AAC	2535.000, 507000	7.32	1.90	38.3

Hardware Setup

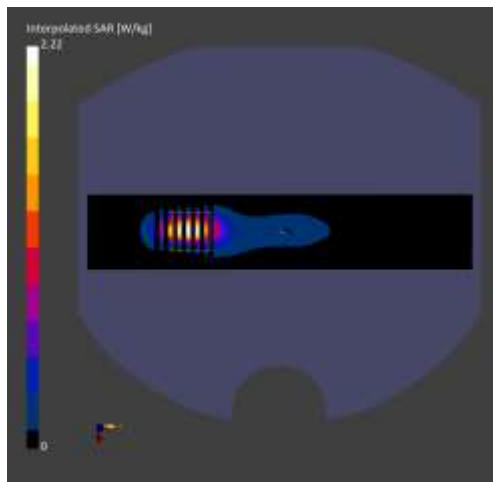
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.803	0.863
psSAR10g [W/Kg]	0.302	0.310
Power Drift [dB]	-0.06	-0.01



EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 05/13/2025
Band: NR Band n25 Body_ Ant B
Plot No.: B10

Measurement Report for Device, EDGE RIGHT, Band n25, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 376500 (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
Flat, Head Simulating Liquid	EDGE RIGHT, 5.00	Band n25	5G NR FR1 FDD, 10934-AAC	1882.500, 376500	7.81	1.39	40.4

Hardware Setup

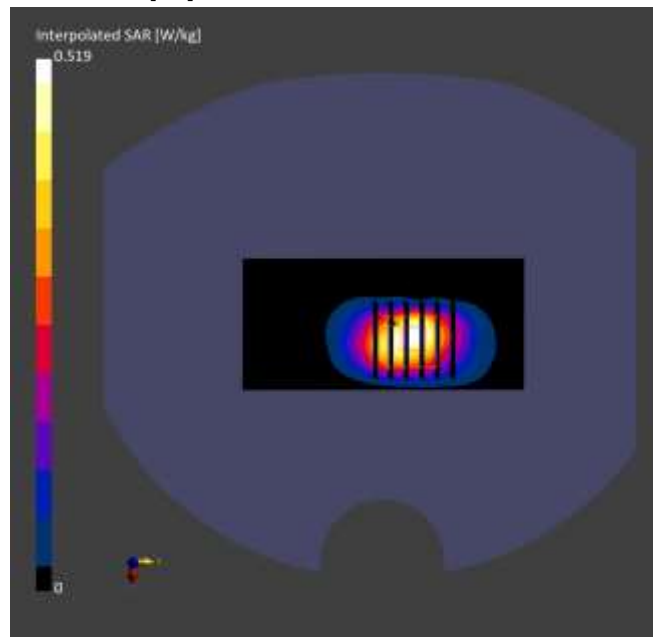
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.157	0.230
psSAR10g [W/Kg]	0.084	0.101
Power Drift [dB]	0.07	0.05



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/06/2025
Band: NR Band n30_Ant I
Plot No.: B11

Measurement Report for Device, EDGE RIGHT, Band n30, 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 462000 (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, Head Simulating Liquid	EDGE RIGHT, 5.00	Band n30	5G NR FR1 FDD, 10937-AAD	2310.000, 462000	7.64	1.72	39.0

Hardware Setup

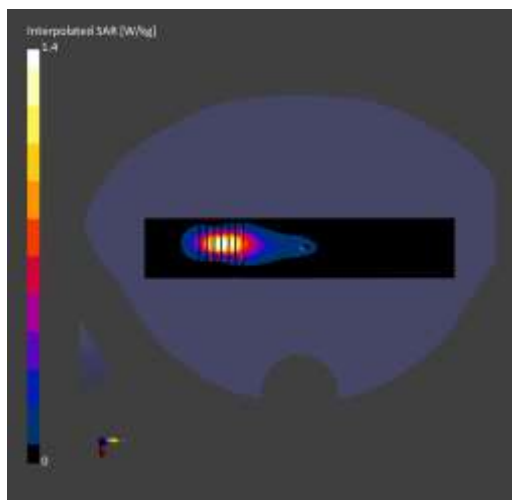
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.602	0.632
psSAR10g [W/Kg]	0.247	0.252
Power Drift [dB]	-0.16	0.09



EUT Type: Mobile Phone
Ambient Temperature: 21.7 °C
Liquid Temperature: 21.6 °C
Test Date: 05/06/2025
Band: NR Band n41_ Ant I
Plot No.: B12

Measurement Report for Device, EDGE RIGHT, Band n41, 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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 RIGHT, 5.00	Band n41	5G NR FR1 TDD, 10803-AAF	2592.990, 518598	7.32	1.97	39.2

Hardware Setup

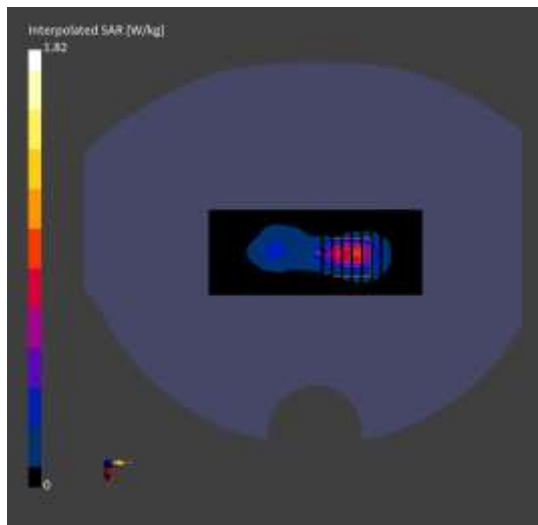
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

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]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.719	0.793
psSAR10g [W/Kg]	0.292	0.304
Power Drift [dB]	-0.00	-0.08



EUT Type: Mobile Phone
Ambient Temperature: 21.9 °C
Liquid Temperature: 21.8 °C
Test Date: 05/31/2025
Band: NR Band n41 Lower_ SRS.I
Plot No.: B13
Measurement Report for Device, EDGE RIGHT, Band n41, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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 RIGHT, 5.00	Band n41	5G NR FR1 TDD, 10866-AAF	2592.990, 518598	7.32	1.97	39.2

Hardware Setup

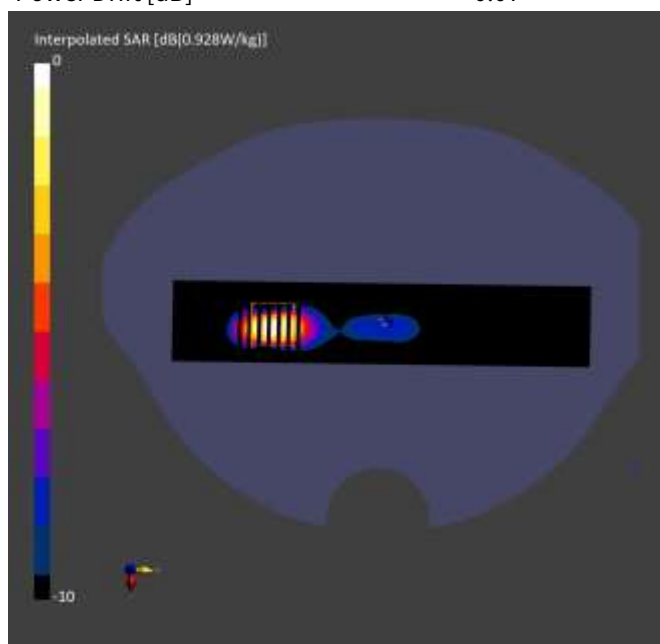
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.314	0.357
psSAR10g [W/Kg]	0.119	0.127
Power Drift [dB]	-0.07	0.03



EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 05/07/2025
Band: NR Band n41 Lower_ SRS.G
Plot No.: B14
Measurement Report for Device, EDGE TOP, Band n41, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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 TOP, 5.00	Band n41	5G NR FR1 TDD, 10866-AAF	2592.990, 518598	7.32	2.04	38.5

Hardware Setup

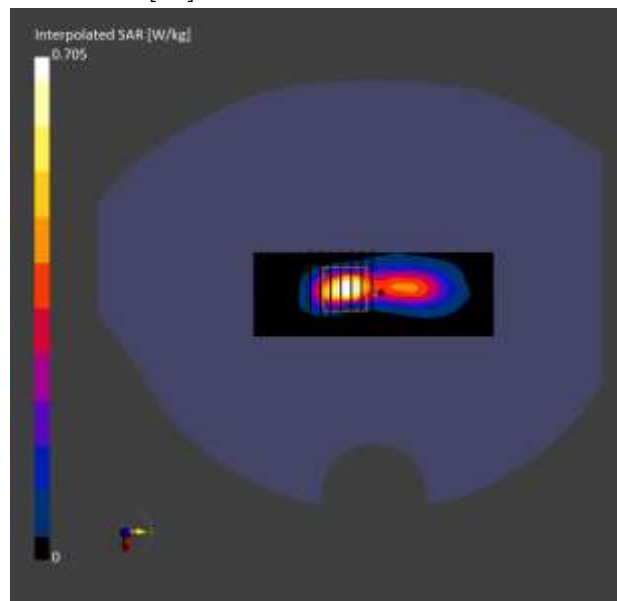
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	7.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.259	0.275
psSAR10g [W/Kg]	0.097	0.097
Power Drift [dB]	0.17	-0.11



EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 05/07/2025
Band: NR Band n41 Upper_ SRS.B
Plot No.: B15

Measurement Report for Device, BACK, Band n41, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)
RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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	BACK, 5.00	Band n41	5G NR FR1 TDD, 10866-AAF	2592.990, 518598	7.32	2.04	38.5

Hardware Setup

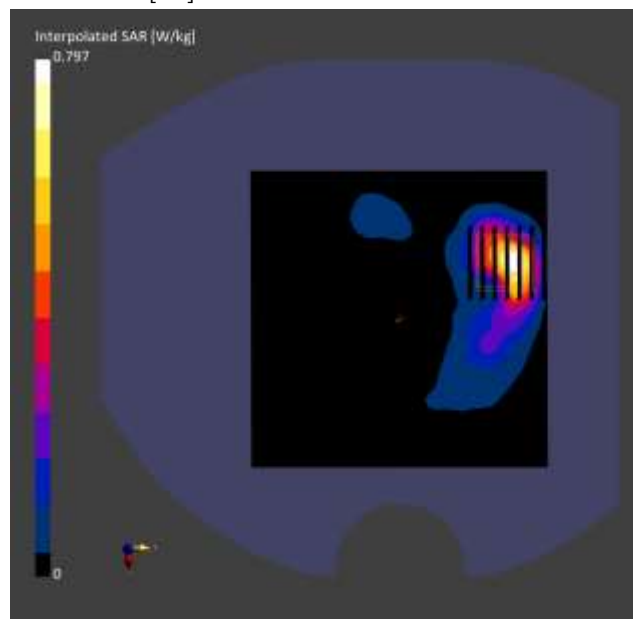
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.319	0.347
psSAR10g [W/Kg]	0.137	0.140
Power Drift [dB]	-0.18	0.02



EUT Type: Mobile Phone
Ambient Temperature: 21.4 °C
Liquid Temperature: 21.3 °C
Test Date: 05/07/2025
Band: NR Band n66_ Ant I
Plot No.: B16

Measurement Report for Device, EDGE RIGHT, Band n66, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) AntennaCfg:SISO, Channel 349000 (1745.000 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 RIGHT, 5.00	Band n66	5G NR FR1 FDD, 10942-AAC	1745.000, 349000	8.05	1.32	40.8

Hardware Setup

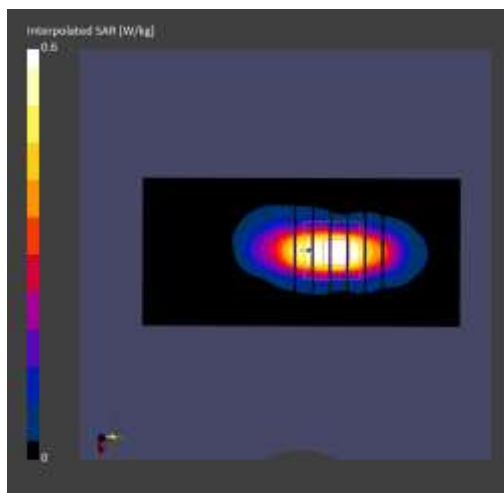
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.519	0.506
psSAR10g [W/Kg]	0.234	0.226
Power Drift [dB]	0.01	-0.01



EUT Type: Mobile Phone
Ambient Temperature: 21.1 °C
Liquid Temperature: 21.0 °C
Test Date: 05/14/2025
Band: NR Band n70_ Ant I
Plot No.: B17

Measurement Report for Device, EDGE RIGHT, Band n70, 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 340500 (1702.500 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, Head Simulating Liquid	EDGE RIGHT, 0.00	Band n70	5G NR FR1 FDD, 10938-AAC	1702.500, 340500	7.63	1.30	40.7

Hardware Setup

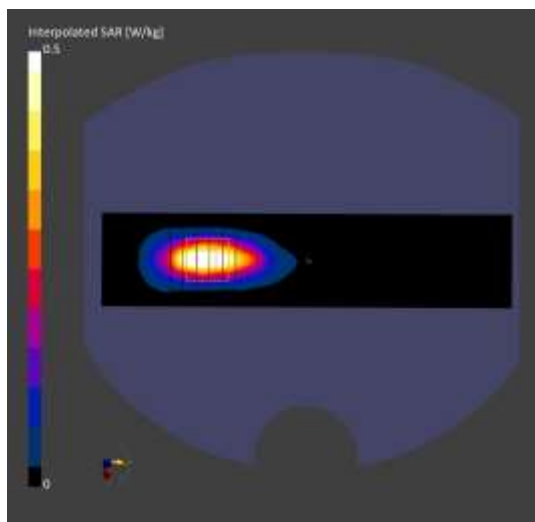
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2049	EX3DV4 - SN7907, 2024-12-27	DAE4 Sn504, 2025-01-17

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 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]	0.425	0.437
psSAR10g [W/Kg]	0.203	0.204
Power Drift [dB]	0.09	-0.01



EUT Type: Mobile Phone
Ambient Temperature: 21.2 °C
Liquid Temperature: 21.1 °C
Test Date: 05/29/2025
Band: NR Band n77_ Ant F
Plot No.: B18
Measurement Report for Device, FRONT, Band n77, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)
RBPosition:Mid AntennaCfg:SISO, Channel 633334 (3500.010 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	FRONT, 5.00	Band n77	5G NR FR1 TDD, 10973-AAD	3500.010, 633334	6.95	2.88	38.5

Hardware Setup

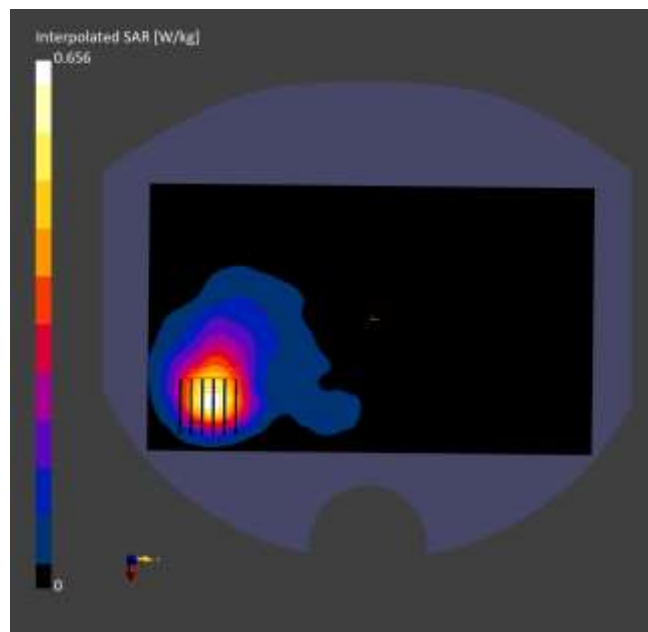
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.292	0.285
psSAR10g [W/Kg]	0.130	0.125
Power Drift [dB]	0.16	-0.17



EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/30/2025
Band: NR Band n77_ SRS.I
Plot No.: B19

Measurement Report for Device, EDGE RIGHT, Band n77, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 633334 (3500.010 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 RIGHT, 5.00	Band n77	5G NR FR1 TDD, 10973-AAD	3500.010, 633334	6.95	2.88	38.6

Hardware Setup

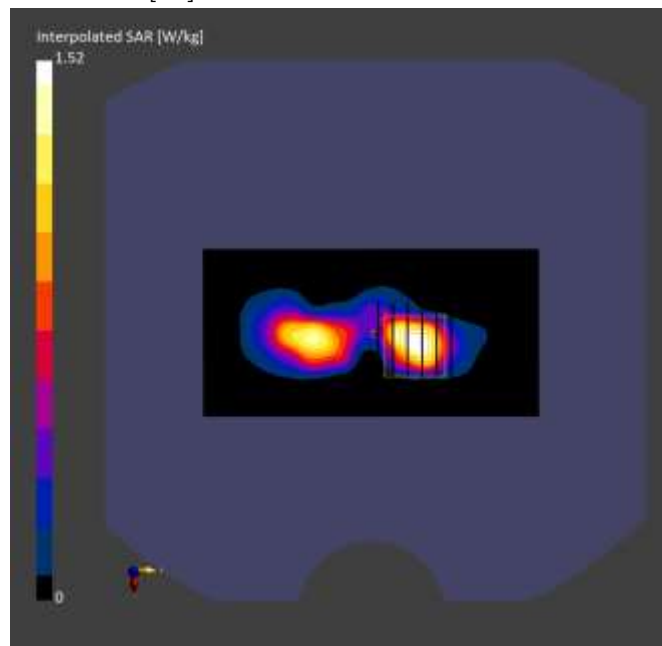
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
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]	0.267	0.433
psSAR10g [W/Kg]	0.093	0.114
Power Drift [dB]	-0.19	0.13



EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/30/2025
Band: NR Band n77_ SRS.E
Plot No.: B20

Measurement Report for Device, EDGE LEFT, 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, Head Simulating Liquid	EDGE LEFT, 5.00	Band n77	5G NR FR1 TDD, 10866-AAF	3750.000, 650000	6.91	3.11	38.2

Hardware Setup

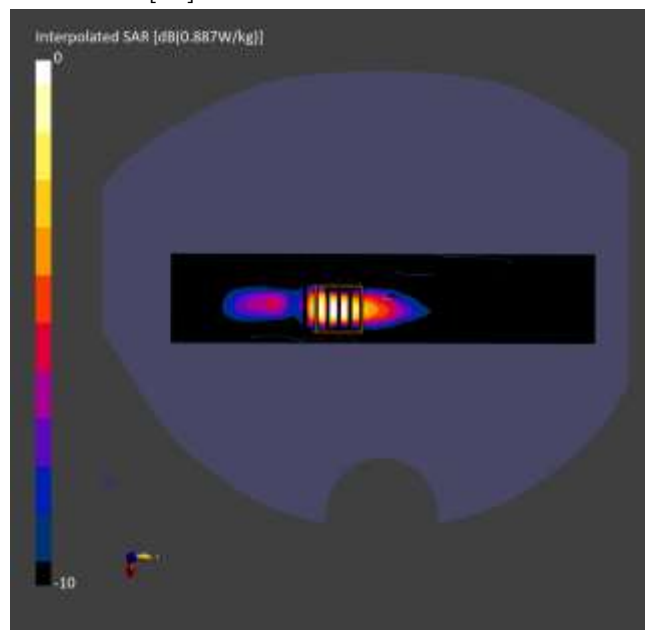
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	7.0 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]	0.246	0.283
psSAR10g [W/Kg]	0.075	0.081
Power Drift [dB]	0.11	-0.02



EUT Type: Mobile Phone
Ambient Temperature: 21.6 °C
Liquid Temperature: 21.5 °C
Test Date: 05/30/2025
Band: NR Band n77_ SRS.C
Plot No.: B21

Measurement Report for Device, EDGE LEFT, 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, Head Simulating Liquid	EDGE LEFT, 5.00	Band n77	5G NR FR1 TDD, 10866-AAF	3750.000, 650000	6.91	3.11	38.2

Hardware Setup

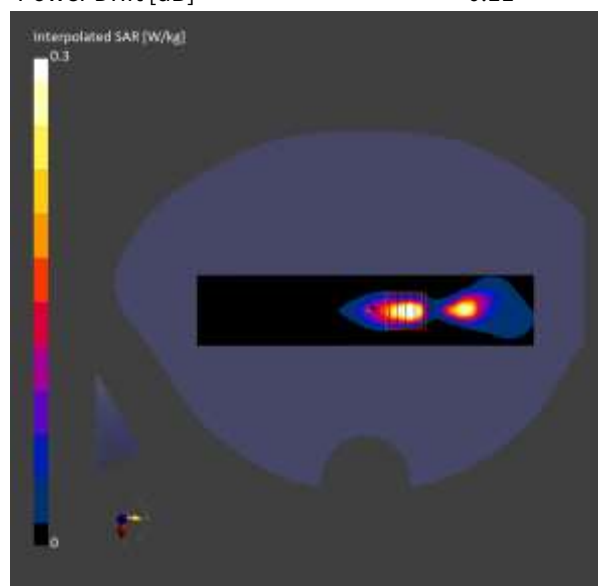
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	42.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	7.0 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]	0.213	0.244
psSAR10g [W/Kg]	0.066	0.073
Power Drift [dB]	0.11	-0.14



Appendix C. – Dipole Verification Plots

Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 20.7 °C
 Test Date: 05/16/2025
 Band: NR Band n5_Ant A
 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, Head Simulating Liquid	,		CW, 0--	835.000, 0	9.33	0.938	42.5

Hardware Setup

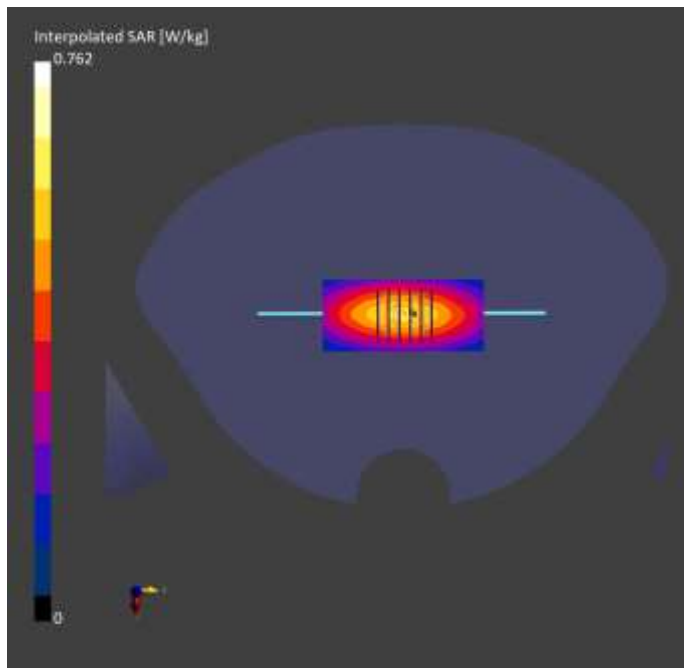
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.513	0.511
psSAR10g [W/Kg]	0.336	0.334
Power Drift [dB]	-0.01	-0.04



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.0 °C
Test Date: 05/14/2025
Band: NR Band n70_ Ant I, NTN Band 255_ Ant G
Measurement Report for Device, , , CW, Channel 0 (1640.000 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	,		CW, 0--	1640.000, 0	7.49	1.27	41.8

Hardware Setup

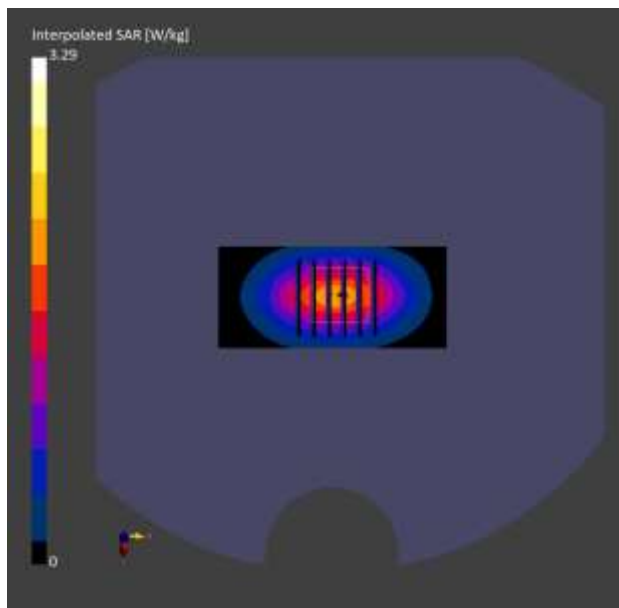
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2049 Probe, Calibration Date EX3DV4 - SN7907, 2024-12-27 DAE, Calibration Date DAE4 Sn504, 2025-01-17

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.75	1.80
psSAR10g [W/Kg]	0.969	1.00
Power Drift [dB]	0.01	0.00



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.5 °C
 Test Date: 05/02/2025
 Band: UMTS Band 4_ Ant I
 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, Head Simulating Liquid	,		CW, 0--	1800.000, 0	8.05	1.37	40.5

Hardware Setup

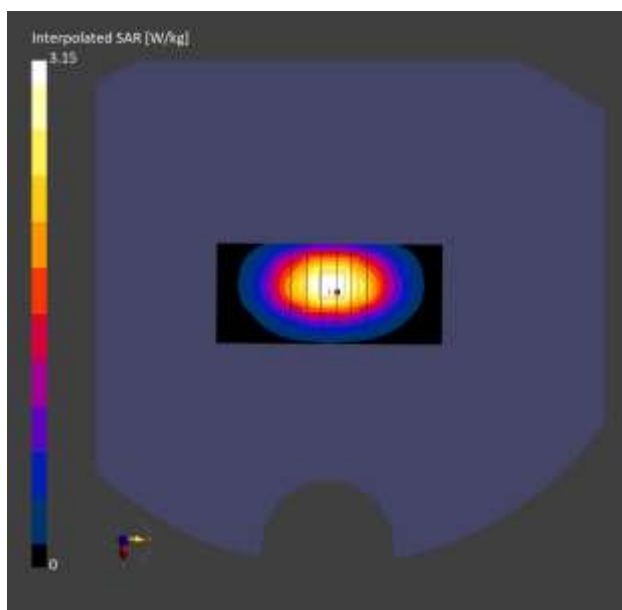
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
 Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
 DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.76	1.80
psSAR10g [W/Kg]	0.952	0.965
Power Drift [dB]	-0.06	-0.04



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.6 °C
 Test Date: 05/04/2025
 Band: LTE Band 66_Ant I
 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, Head Simulating Liquid	,		CW, 0--	1800.000, 0	8.05	1.41	40.9

Hardware Setup

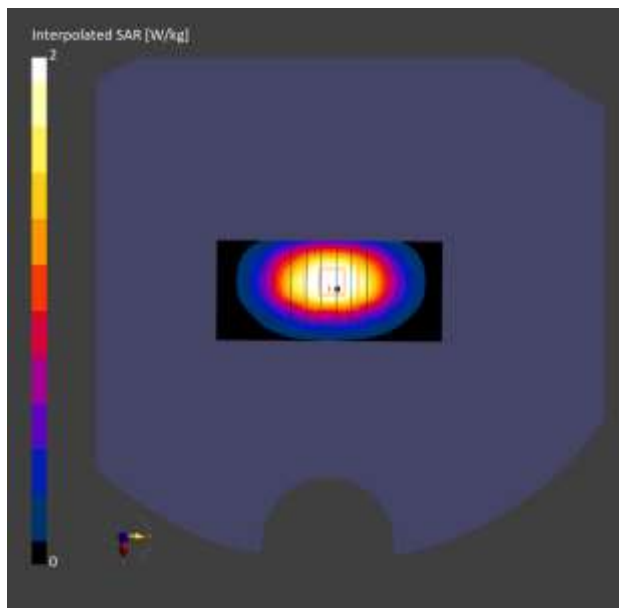
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.81	1.85
psSAR10g [W/Kg]	0.983	0.995
Power Drift [dB]	-0.02	-0.04



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.3 °C
 Test Date: 05/07/2025
 Band: NR Band n66_Ant I
 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, Head Simulating Liquid	,		CW, 0--	1800.000, 0	8.05	1.36	40.8

Hardware Setup

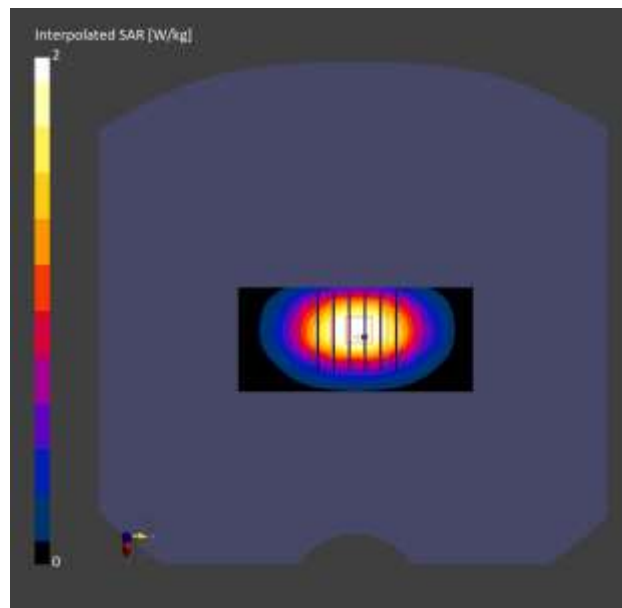
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.74	1.79
psSAR10g [W/Kg]	0.946	0.960
Power Drift [dB]	-0.04	-0.04



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.5 °C
Test Date: 05/02/2025
Band: UMTS Band 2_ Ant I
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, Head Simulating Liquid	,		CW, 0--	1900.000, 0	7.81	1.44	40.6

Hardware Setup

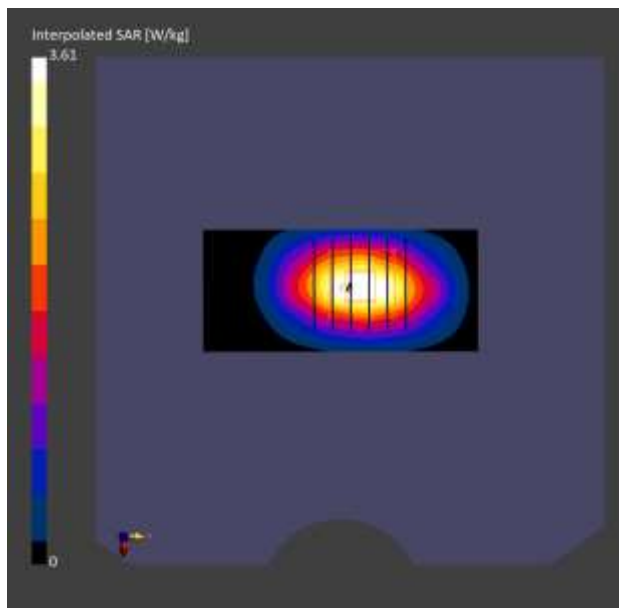
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.99	2.04
psSAR10g [W/Kg]	1.05	1.09
Power Drift [dB]	0.01	-0.02



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.5 °C
 Test Date: 05/02/2025
 Band: LTE Band 25_Ant I
 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, Head Simulating Liquid	,		CW, 0--	1900.000, 0	7.81	1.44	40.6

Hardware Setup

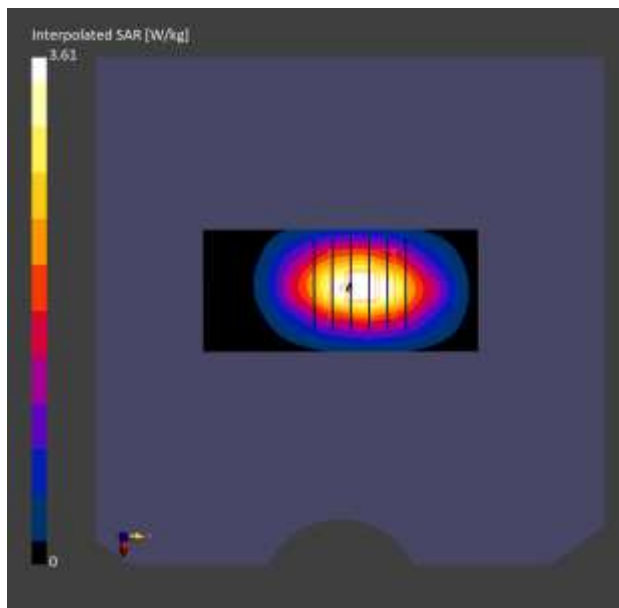
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
 Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
 DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.99	2.04
psSAR10g [W/Kg]	1.05	1.09
Power Drift [dB]	0.00	0.02



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 22.0 °C
Test Date: 05/05/2025
Band: NR Band n25_Ant I
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, Head Simulating Liquid	,		CW, 0--	1900.000, 0	7.81	1.40	40.4

Hardware Setup

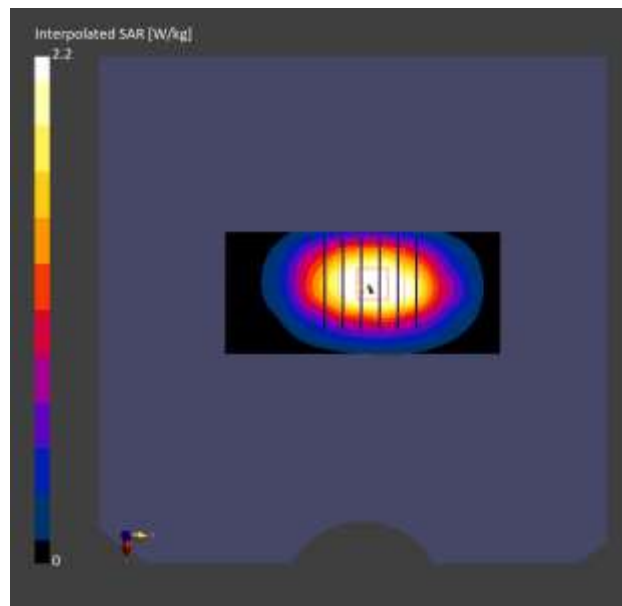
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.00	2.07
psSAR10g [W/Kg]	1.07	1.10
Power Drift [dB]	0.09	-0.02



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.9 °C
Test Date: 05/03/2025
Band: LTE Band 30_Ant I
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, Head Simulating Liquid	,		CW, 0--	2300.000, 0	7.64	1.68	38.9

Hardware Setup

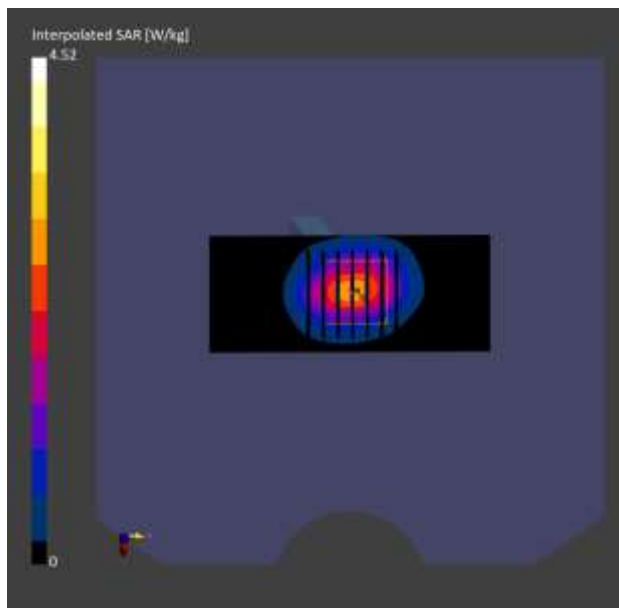
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.25	2.25
psSAR10g [W/Kg]	1.04	1.03
Power Drift [dB]	0.00	-0.03



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.6 °C
 Test Date: 05/06/2025
 Band: NR Band n30_Ant I
 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, Head Simulating Liquid	,		CW, 0--	2300.000, 0	7.64	1.73	38.9

Hardware Setup

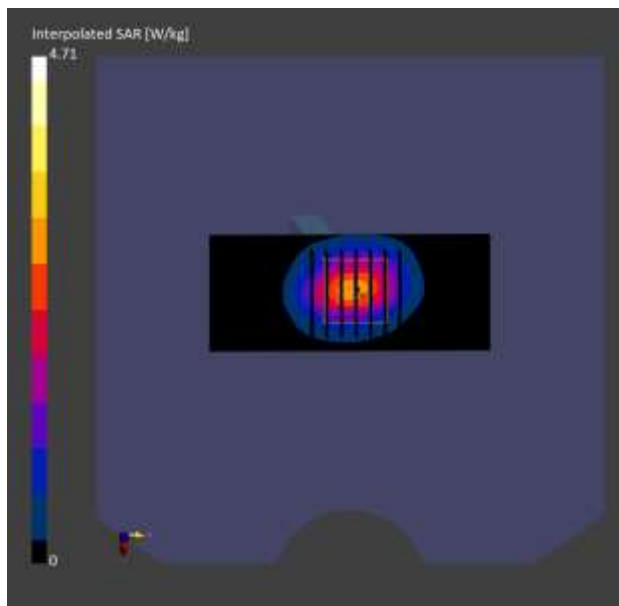
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
 Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
 DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.33	2.33
psSAR10g [W/Kg]	1.08	1.07
Power Drift [dB]	0.01	-0.02



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.9 °C
Test Date: 05/03/2025
Band: LTE Band 7_Ant I
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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	7.32	2.01	40.3

Hardware Setup

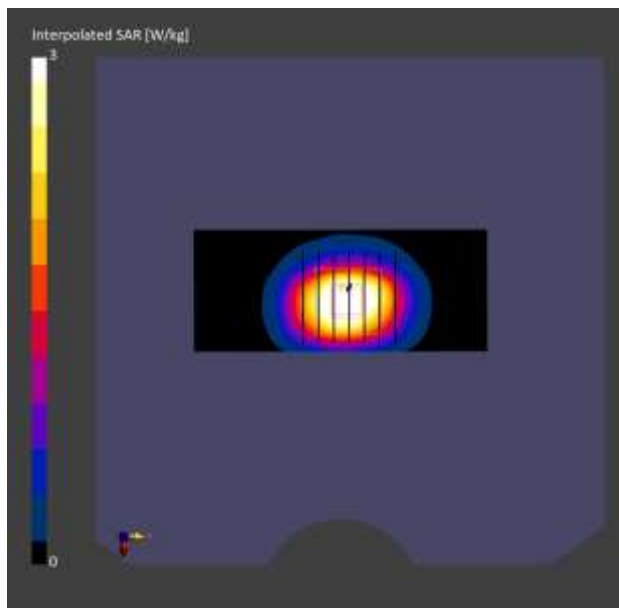
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.72	2.83
psSAR10g [W/Kg]	1.27	1.30
Power Drift [dB]	0.05	0.05



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.6 °C
Test Date: 05/04/2025
Band: LTE Band 41_Ant I
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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	7.32	1.90	40.3

Hardware Setup

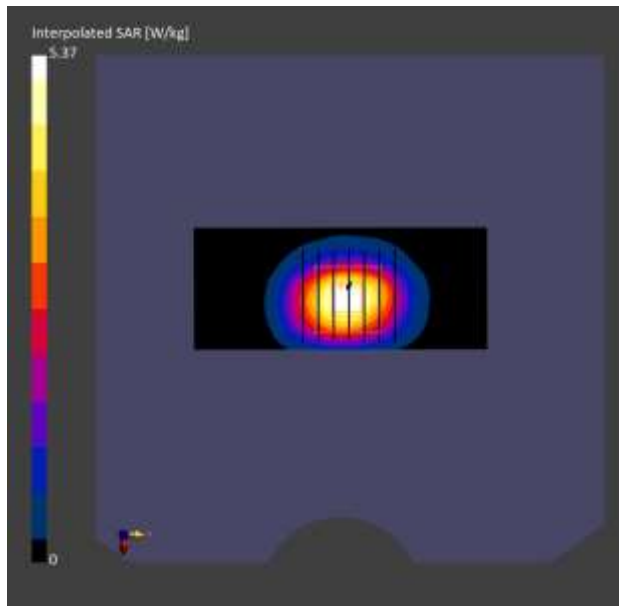
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.56	2.68
psSAR10g [W/Kg]	1.20	1.23
Power Drift [dB]	0.05	0.04



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 22.0 °C
 Test Date: 05/05/2025
 Band: NR Band n7_Ant I
 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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	7.32	1.98	38.0

Hardware Setup

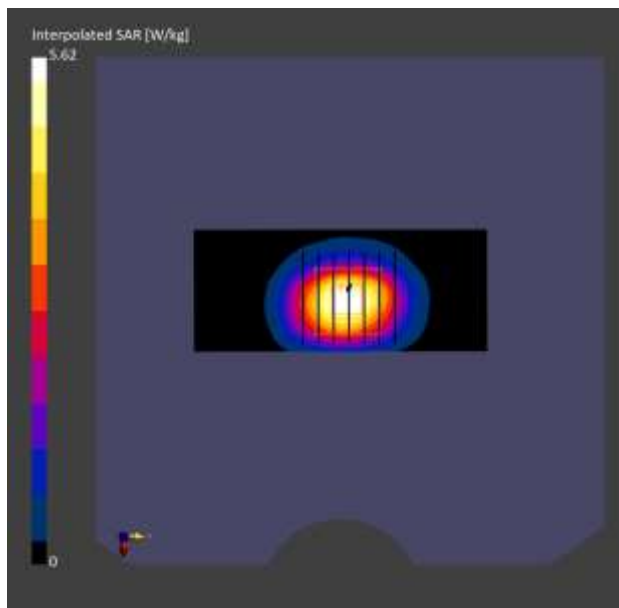
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.68	2.80
psSAR10g [W/Kg]	1.25	1.29
Power Drift [dB]	0.05	0.04



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.6 °C
 Test Date: 05/06/2025
 Band: NR Band n38_Ant I, NR Band n41_Ant I
 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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	7.32	1.98	39.1

Hardware Setup

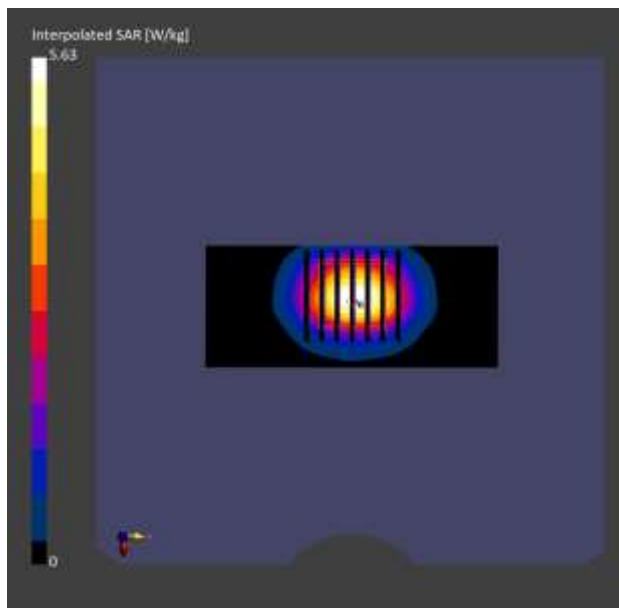
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
 Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
 DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.58	2.73
psSAR10g [W/Kg]	1.20	1.25
Power Drift [dB]	-0.01	0.02



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.5 °C
 Test Date: 05/30/2025
 Band: NR Band n41_ SRS I
 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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	7.32	1.99	39.2

Hardware Setup

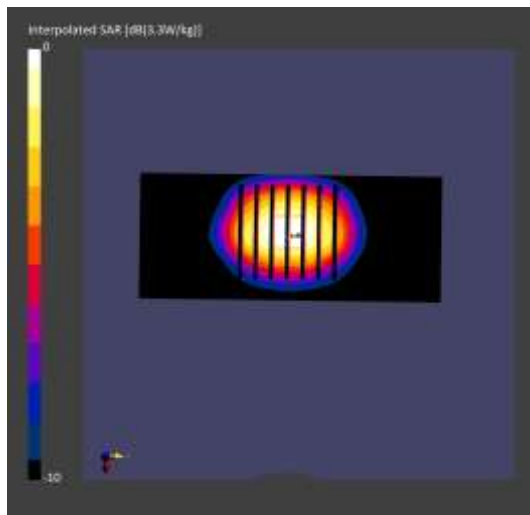
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
 Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
 DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.50	2.74
psSAR10g [W/Kg]	1.14	1.26
Power Drift [dB]	-0.01	-0.05



Test Laboratory: HCT CO., LTD
 Input Power: 0.05 W
 Liquid Temperature: 21.3 °C
 Test Date: 05/07/2025
 Band: NR Band n41_ SRS G, NR Band n41_ SRS B
 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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	7.32	2.05	38.5

Hardware Setup

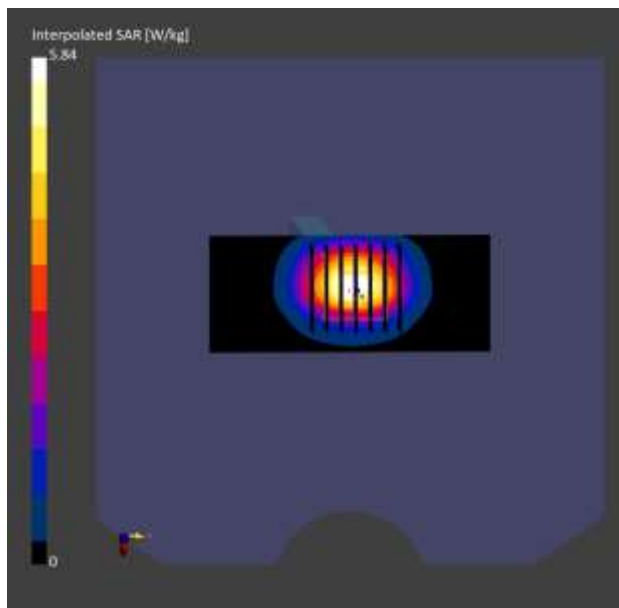
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
 Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
 DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.60	2.79
psSAR10g [W/Kg]	1.21	1.28
Power Drift [dB]	-0.01	0.02



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.1 °C
Test Date: 05/29/2025
Band: NR Band n77
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, Head Simulating Liquid	,		CW, 0--	3500.000, 0	6.95	2.88	38.5

Hardware Setup

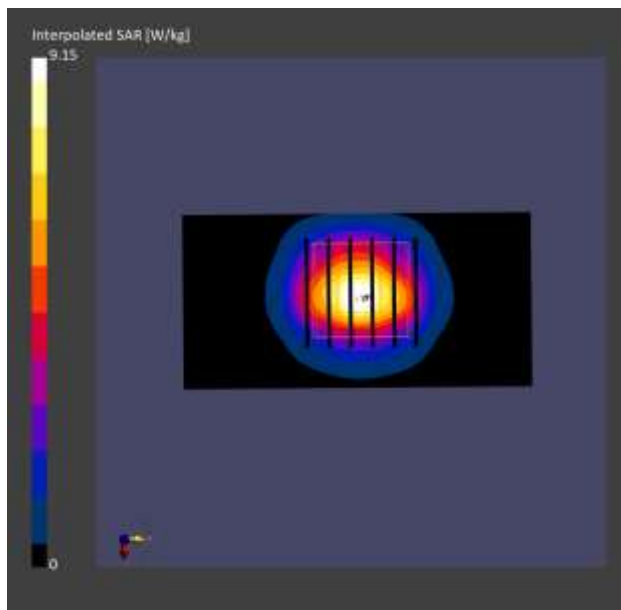
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
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]	3.29	3.53
psSAR10g [W/Kg]	1.26	1.35
Power Drift [dB]	-0.12	-0.13



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.5 °C
Test Date: 05/30/2025
Band: NR Band n77_SRS
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, Head Simulating Liquid	,		CW, 0--	3500.000, 0	6.95	2.88	38.6

Hardware Setup

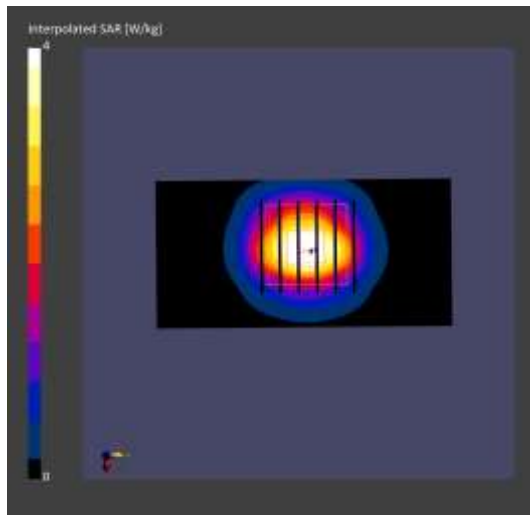
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
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]	3.26	3.50
psSAR10g [W/Kg]	1.25	1.34
Power Drift [dB]	-0.11	-0.12



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.1 °C
Test Date: 05/29/2025
Band: NR Band n77
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, Head Simulating Liquid	,		CW, 0--	3700.000, 0	6.91	3.06	38.2

Hardware Setup

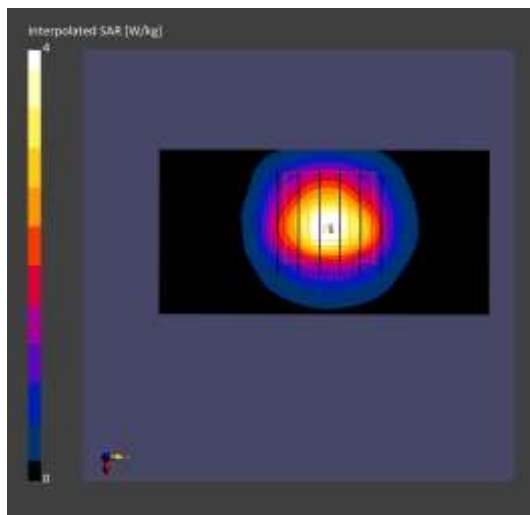
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
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]	2.92	3.17
psSAR10g [W/Kg]	1.10	1.19
Power Drift [dB]	-0.12	-0.12



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.5 °C
Test Date: 05/30/2025
Band: NR Band n77_SRS
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, Head Simulating Liquid	,		CW, 0--	3700.000, 0	6.91	3.06	38.3

Hardware Setup

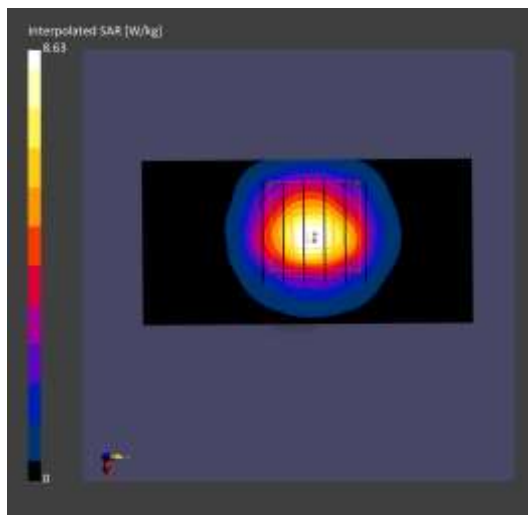
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
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]	2.95	3.19
psSAR10g [W/Kg]	1.12	1.20
Power Drift [dB]	-0.12	-0.14



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.1 °C
Test Date: 05/29/2025
Band: NR Band n77
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, Head Simulating Liquid	,		CW, 0--	3900.000, 0	6.73	3.26	37.9

Hardware Setup

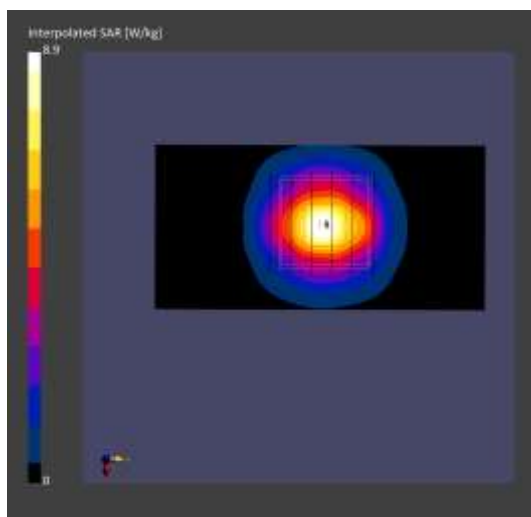
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2050	EX3DV4 - SN7681, 2024-11-22	DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
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]	2.93	3.22
psSAR10g [W/Kg]	1.05	1.18
Power Drift [dB]	0.00	-0.08



Test Laboratory: HCT CO., LTD
Input Power: 0.05 W
Liquid Temperature: 21.5 °C
Test Date: 05/30/2025
Band: NR Band n77_SRS
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, Head Simulating Liquid	,		CW, 0--	3900.000, 0	6.73	3.26	38.0

Hardware Setup

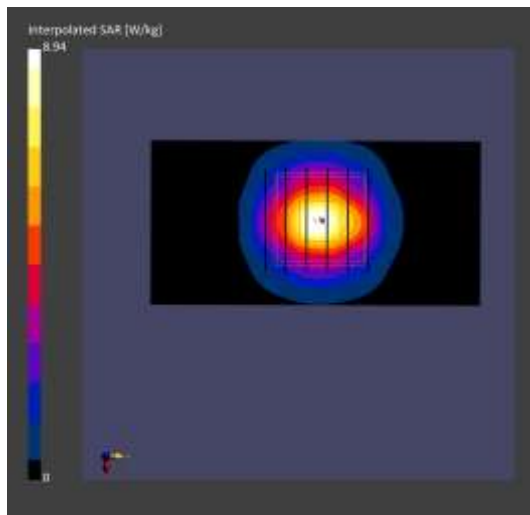
Phantom Twin-SAM V8.0 (30deg probe tilt) - 2050
Probe, Calibration Date EX3DV4 - SN7681, 2024-11-22
DAE, Calibration Date DAE4 Sn446, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
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]	2.94	3.18
psSAR10g [W/Kg]	1.05	1.16
Power Drift [dB]	-0.06	-0.10



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)							
	835		1 900		2 450 – 2 700		3500 - 5 800	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body
Water	40.45	53.06	54.9	70.17	71.88	73.2	65.52	78.66
Salt (NaCl)	1.45	0.94	0.18	0.39	0.16	0.1	0.0	0.0
Sugar	57.0	44.9	0.0	0	0.0	0.0	0.0	0.0
HEC	1.0	1.0	0.0	0	0.0	0.0	0.0	0.0
Bactericide	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	19.97	0.0	17.24	10.67
DGBE	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
13	7681	EX3DV4	Head	835	441	2024-12-04	41.6	0.89	PASS	PASS	PASS	N/A	N/A	N/A
12	7907	EX3DV4	Head	1640	345	2024-09-05	40.0	1.32	PASS	PASS	PASS	N/A	N/A	N/A
13	7681	EX3DV4	Head	1750	2d007	2024-12-04	40.2	1.38	PASS	PASS	PASS	N/A	N/A	N/A
13	7681	EX3DV4	Head	1900	5d061	2024-12-04	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
13	7681	EX3DV4	Head	2300	1010	2024-12-04	39.8	1.66	PASS	PASS	PASS	N/A	N/A	N/A
13	7681	EX3DV4	Head	2600	1015	2024-12-04	39.0	1.94	PASS	PASS	PASS	N/A	N/A	N/A
13	7681	EX3DV4	Head	2600	1015	2024-12-04	39.0	1.94	PASS	PASS	PASS	TDD	PASS	N/A
13	7681	EX3DV4	Head	3500	1040	2024-12-04	38.0	2.94	PASS	PASS	PASS	TDD	PASS	N/A
13	7681	EX3DV4	Head	3700	1105	2024-12-04	37.8	3.15	PASS	PASS	PASS	TDD	PASS	N/A
13	7681	EX3DV4	Head	3900	1109	2024-12-04	37.4	3.35	PASS	PASS	PASS	TDD	PASS	N/A

SAR System Validation Summary 1g