

Appendix B

GSM850
GSM1900
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 4
LTE Band 5
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 71

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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	GSM 850	GSM, 10024-DAC	836.600, 190	9.52	0.910	41.4

Hardware Setup

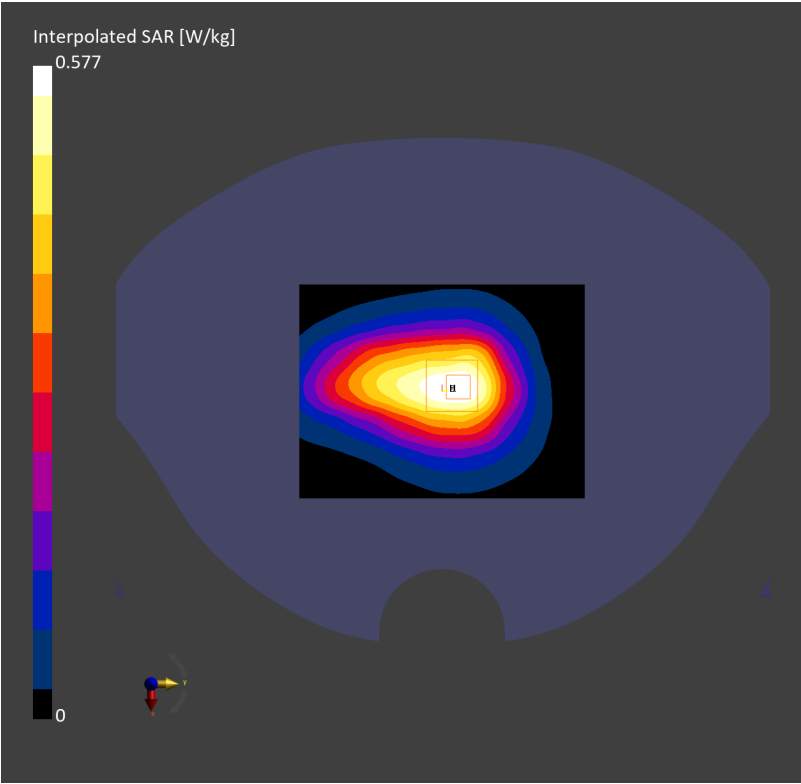
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL835	EX3DV4 – SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 6.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 08:56	2025-11-19, 09:00
psSAR1g [W/Kg]	0.505	0.566
psSAR10g [W/Kg]	0.338	0.370
Power Drift [dB]	-0.02	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.2
Dist 3dB Peak [mm]		20.8



Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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	PCS 1900	GSM, 10028-DAC	1880.000, 661	7.79	1.43	40.4

Hardware Setup

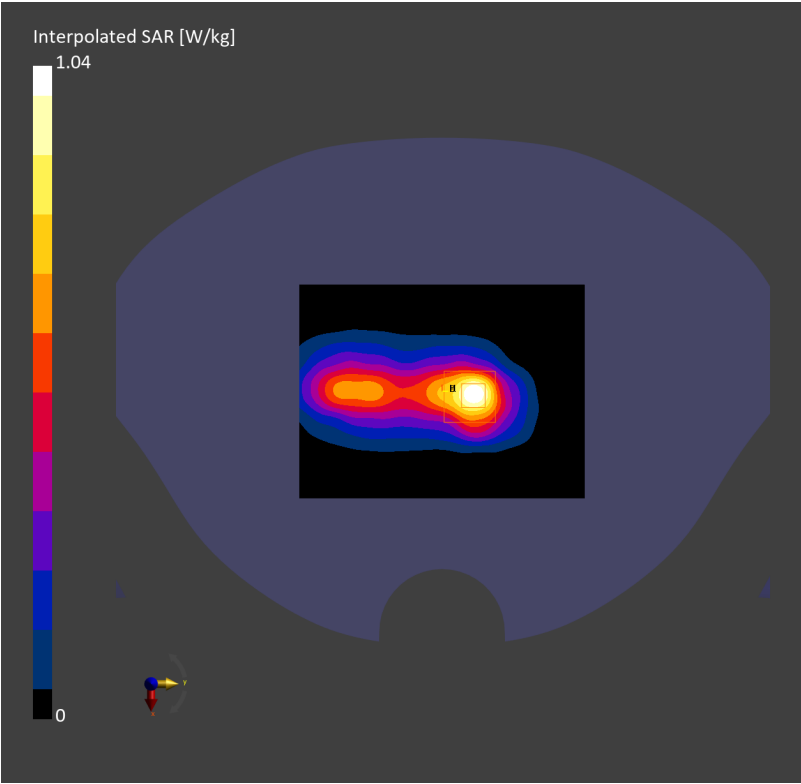
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2173	HSL1900	EX3DV4 - SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 10:07	2025-11-19, 10:10
psSAR1g [W/Kg]	0.813	0.893
psSAR10g [W/Kg]	0.418	0.467
Power Drift [dB]	0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		11.4



Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 2	WCDMA, 10457-AAB	1907.600, 9538	7.79	1.43	40.4

Hardware Setup

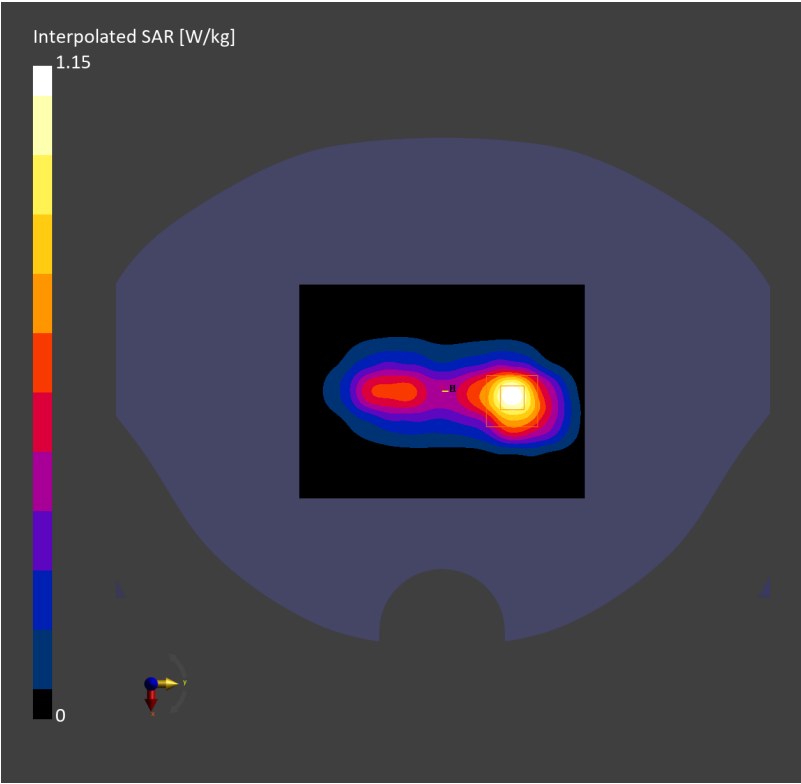
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL1900	EX3DV4 – SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 10:50	2025-11-19, 10:54
psSAR1g [W/Kg]	0.911	0.971
psSAR10g [W/Kg]	0.468	0.495
Power Drift [dB]	-0.07	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		10.8



Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 × 78.0 × 27.5

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, 9.00	Band 4	WCDMA, 10457–AAB	1712.400, 1312	8.09	1.33	40.7

Hardware Setup

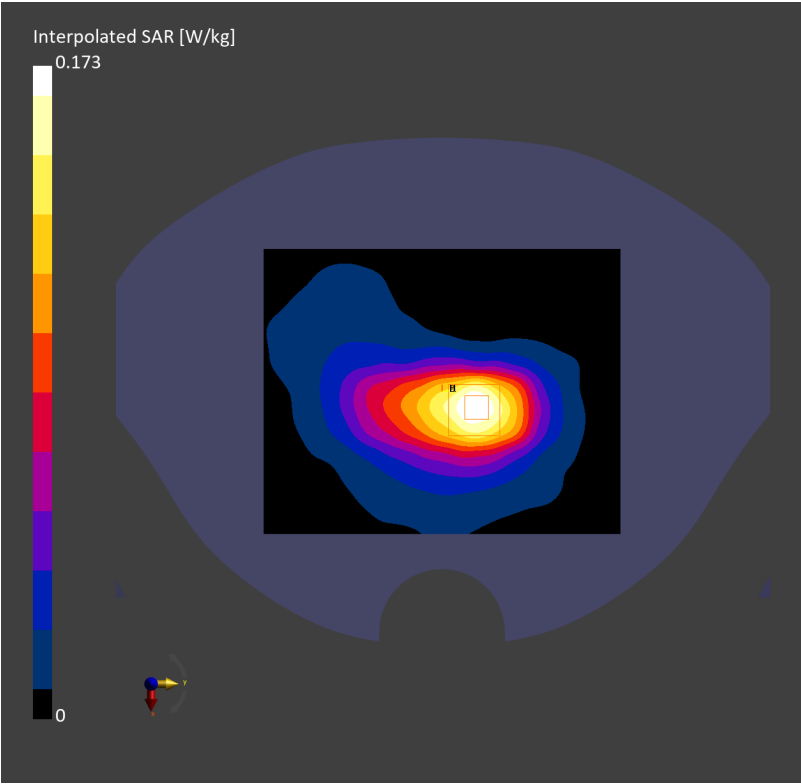
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin–SAM V8.0 (30deg probe tilt) – 2173	HSL1750	EX3DV4 – SN7858, 2025–01–15	DAE4ip Sn1847, 2024–12–31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 × 150.0	32.0 × 32.0 × 30.0
Grid Steps [mm]	15.0 × 15.0	8.0 × 8.0 × 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025–11–19, 15:55	2025–11–19, 15:58
psSAR1g [W/Kg]	0.146	0.165
psSAR10g [W/Kg]	0.087	0.10
Power Drift [dB]	0.06	–0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.8
Dist 3dB Peak [mm]		12.9



Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 5	WCDMA, 10457-AAB	836.600, 4183	9.52	0.910	41.4

Hardware Setup

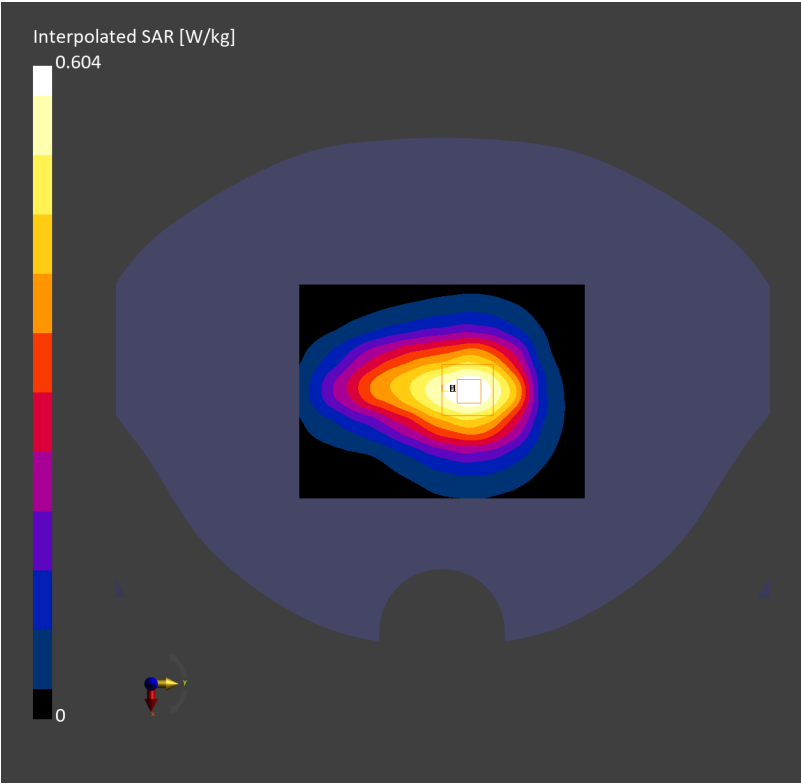
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL835	EX3DV4 – SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 09:41	2025-11-19, 09:44
psSAR1g [W/Kg]	0.523	0.517
psSAR10g [W/Kg]	0.346	0.337
Power Drift [dB]	-0.03	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.7
Dist 3dB Peak [mm]		25.0



Test Laboratory: TOWE Lab

Measurement Report for IK41US, EDGE TOP, Band 2, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, Channel 19100 (1900.000 MHz)

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 2	LTE-FDD, 10169-CAF	1900.000, 19100	7.79	1.43	40.4

Hardware Setup

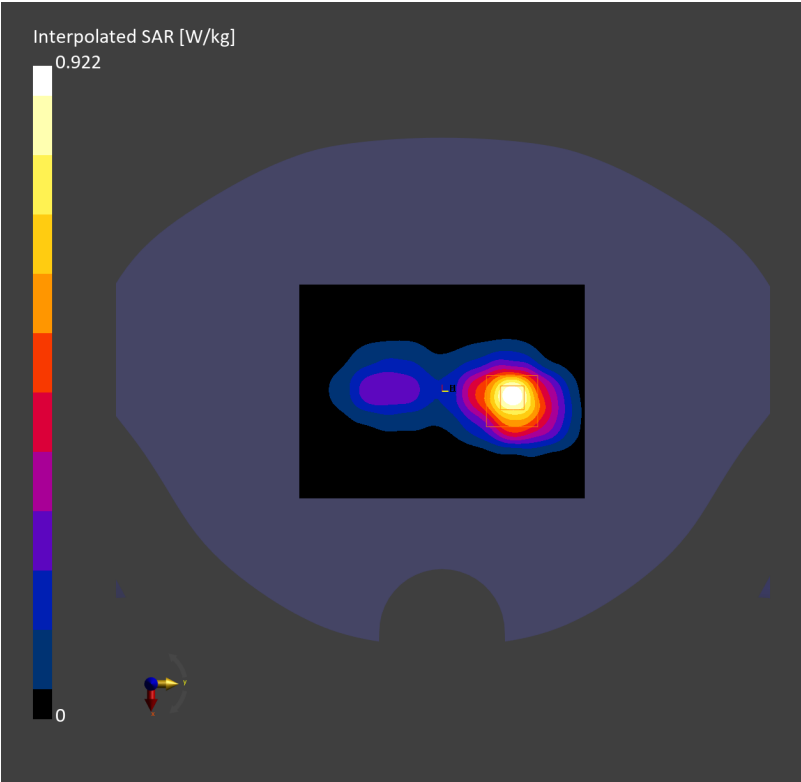
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2173	HSL1900	EX3DV4 - SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 11:04	2025-11-19, 11:07
psSAR1g [W/Kg]	0.727	0.779
psSAR10g [W/Kg]	0.372	0.401
Power Drift [dB]	-0.11	-0.19
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.3
Dist 3dB Peak [mm]		9.6



Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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, 9.00	Band 4	LTE-FDD, 10169-CAF	1745.000, 20300	8.09	1.35	40.7

Hardware Setup

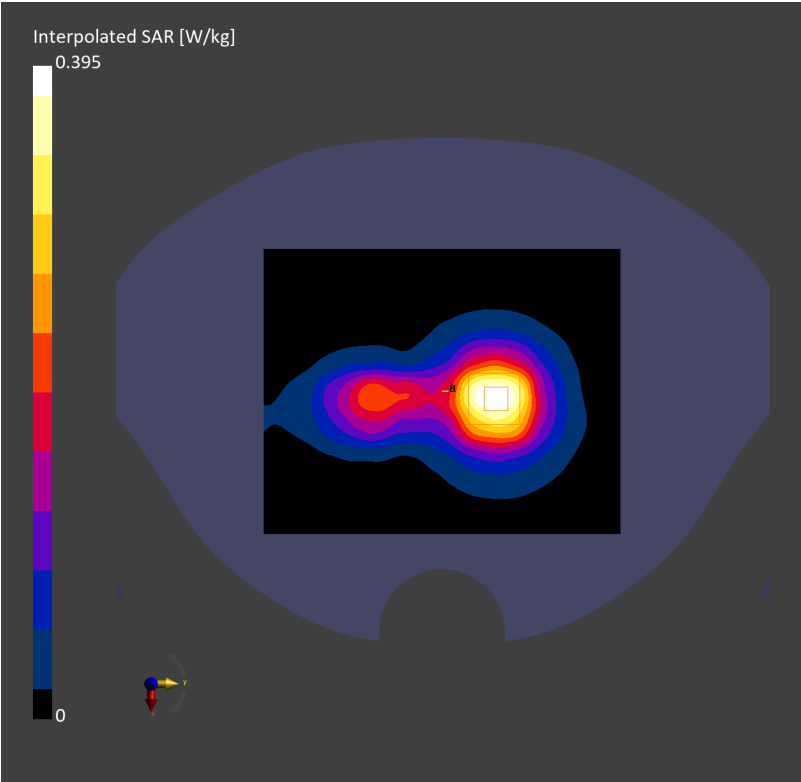
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL1750	EX3DV4 – SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 16:24	2025-11-19, 16:28
psSAR1g [W/Kg]	0.338	0.348
psSAR10g [W/Kg]	0.196	0.198
Power Drift [dB]	-0.16	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		14.5



Test Laboratory: TOWE Lab

Measurement Report for IK41US, EDGE TOP, Band 5, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, Channel 20600 (844.000 MHz)

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 5	LTE-FDD, 10175-CAH	844.000, 20600	9.52	0.912	41.4

Hardware Setup

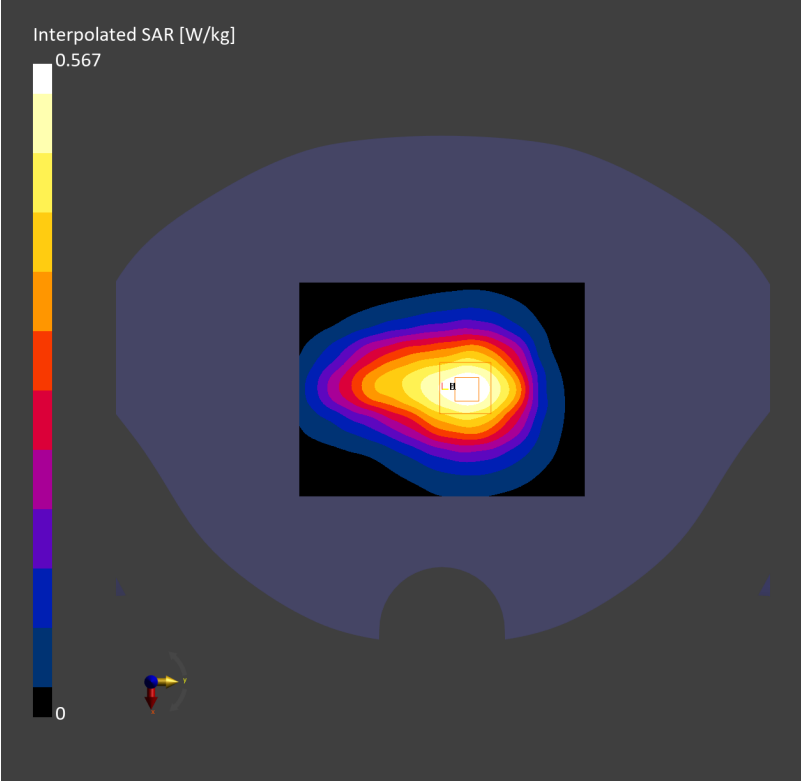
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL835	EX3DV4 – SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 11:32	2025-11-19, 11:37
psSAR1g [W/Kg]	0.490	0.510
psSAR10g [W/Kg]	0.327	0.330
Power Drift [dB]	0.02	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		21.6



Test Laboratory: TOWE Lab

Measurement Report for IK41US, EDGE TOP, Band 7, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, Channel 21350 (2560.000 MHz)

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 7	LTE-FDD, 10169-CAF	2560.000, 21350	7.13	1.93	39.1

Hardware Setup

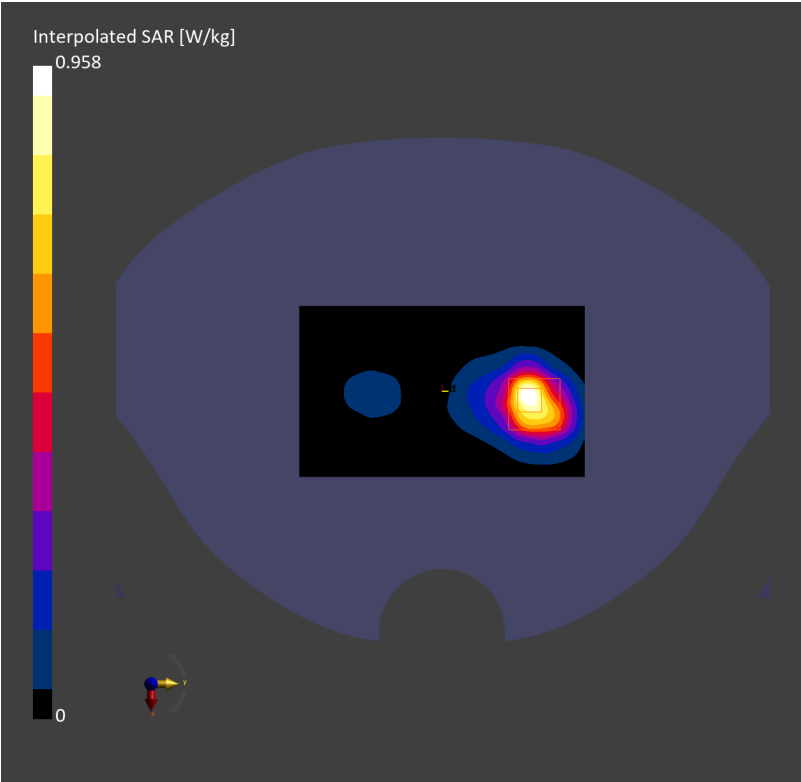
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2173	HSL2600	EX3DV4 - SN7858, 2025-01-15	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 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 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19, 14:12	2025-11-19, 14:17
psSAR1g [W/Kg]	0.716	0.692
psSAR10g [W/Kg]	0.332	0.317
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.0
Dist 3dB Peak [mm]		10.7



Test Laboratory: TOWE Lab

Measurement Report for IK41US, EDGE TOP, Band 12, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, Channel 23130 (711.000 MHz)

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 12	LTE-FDD, 10175-CAH	711.000, 23130	9.21	0.873	41.9

Hardware Setup

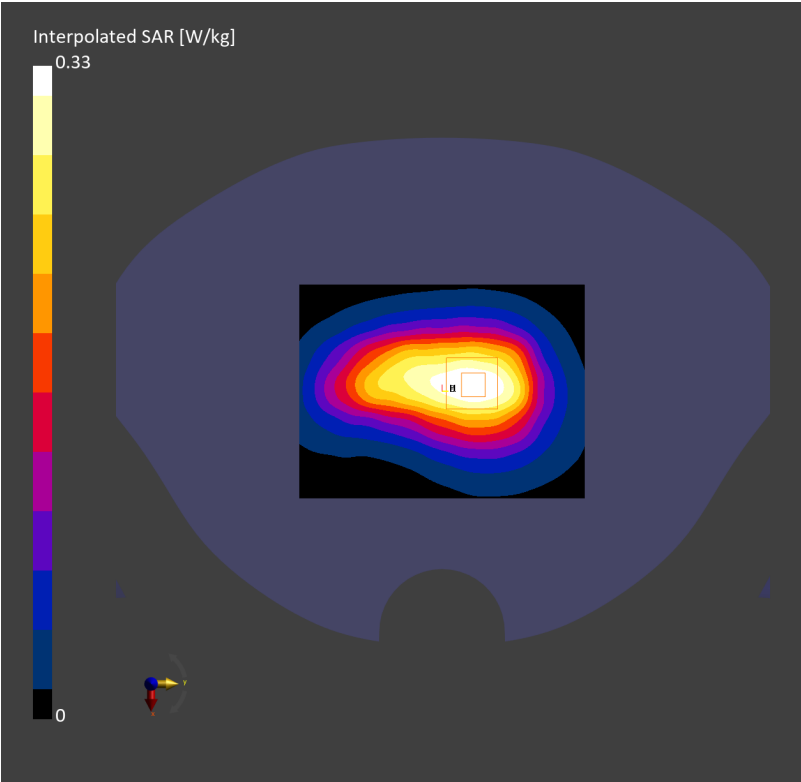
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL750	EX3DV4 – SN7860, 2025-04-07	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-24, 00:28	2025-11-24, 00:32
psSAR1g [W/Kg]	0.289	0.297
psSAR10g [W/Kg]	0.198	0.199
Power Drift [dB]	0.05	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		23.8



Test Laboratory: TOWE Lab

Measurement Report for IK41US, EDGE TOP, Band 13, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:High AntennaCfg:SISO, Channel 23230 (782.000 MHz)

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 13	LTE-FDD, 10175-CAH	782.000, 23230	9.21	0.896	41.7

Hardware Setup

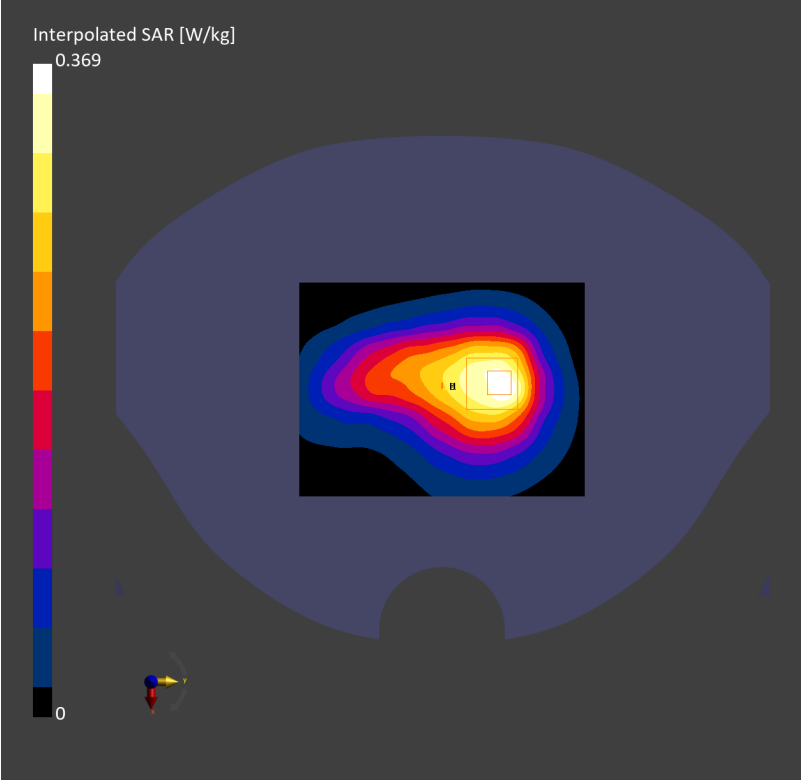
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL750	EX3DV4 – SN7860, 2025-04-07	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-24, 01:07	2025-11-24, 01:10
psSAR1g [W/Kg]	0.317	0.310
psSAR10g [W/Kg]	0.210	0.193
Power Drift [dB]	-0.08	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		11.2



Test Laboratory: TOWE Lab

Measurement Report for IK41US, FRONT, Band 71, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:High AntennaCfg:SISO, Channel 133222 (673.000 MHz)

Device Under Test Properties

Model	Dimensions [mm]
IK41US	100.0 x 78.0 x 27.5

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 71	LTE-FDD, 10297-AAE	673.000, 133222	9.21	0.863	42.1

Hardware Setup

Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) – 2173	HSL750	EX3DV4 – SN7860, 2025-04-07	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-24, 01:43	2025-11-24, 01:46
psSAR1g [W/Kg]	0.120	0.128
psSAR10g [W/Kg]	0.083	0.088
Power Drift [dB]	-0.16	0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		69.1
Dist 3dB Peak [mm]		17.9

