



## DASY5 Validation Report for Body TSL

Date: 14.12.2023

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1100**

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.44 \text{ S/m}$ ;  $\epsilon_r = 49.2$ ;  $\rho = 1000 \text{ kg/m}^3$ ,

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.60 \text{ S/m}$ ;  $\epsilon_r = 49.1$ ;  $\rho = 1000 \text{ kg/m}^3$ ,

Medium parameters used:  $f = 5500 \text{ MHz}$ ;  $\sigma = 5.88 \text{ S/m}$ ;  $\epsilon_r = 48.8$ ;  $\rho = 1000 \text{ kg/m}^3$ ,

Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 6.01 \text{ S/m}$ ;  $\epsilon_r = 48.7$ ;  $\rho = 1000 \text{ kg/m}^3$ ,

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.28 \text{ S/m}$ ;  $\epsilon_r = 48.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.29, 5.29, 5.29) @ 5200 MHz, ConvF(5.23, 5.23, 5.23) @ 5300 MHz, ConvF(4.84, 4.84, 4.84) @ 5500 MHz, ConvF(4.79, 4.79, 4.79) @ 5600 MHz, ConvF(4.62, 4.62, 4.62) @ 5800 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.06 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 26.0 W/kg

SAR(1 g) = 7.31 W/kg; SAR(10 g) = 2.07 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 69.3%

Maximum value of SAR (measured) = 16.5 W/kg

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.35 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 7.33 W/kg; SAR(10 g) = 2.06 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 67.8%

Maximum value of SAR (measured) = 16.9 W/kg

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan,**

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.02 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 31.2 W/kg

**SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.17 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 18.5 W/kg

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,**

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.95 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.2 W/kg

**SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.21 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.7%

Maximum value of SAR (measured) = 18.8 W/kg

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,**

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.73 V/m; Power Drift = -0.08 dB

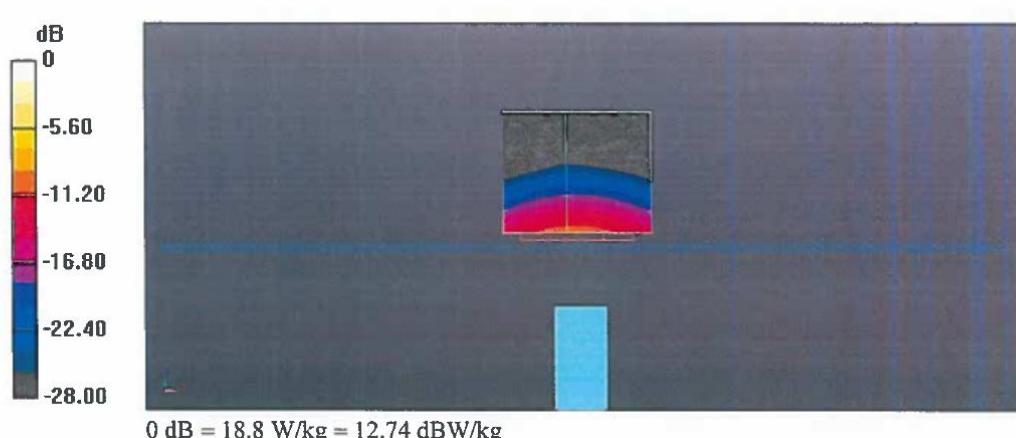
Peak SAR (extrapolated) = 31.2 W/kg

**SAR(1 g) = 7.50 W/kg; SAR(10 g) = 2.07 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

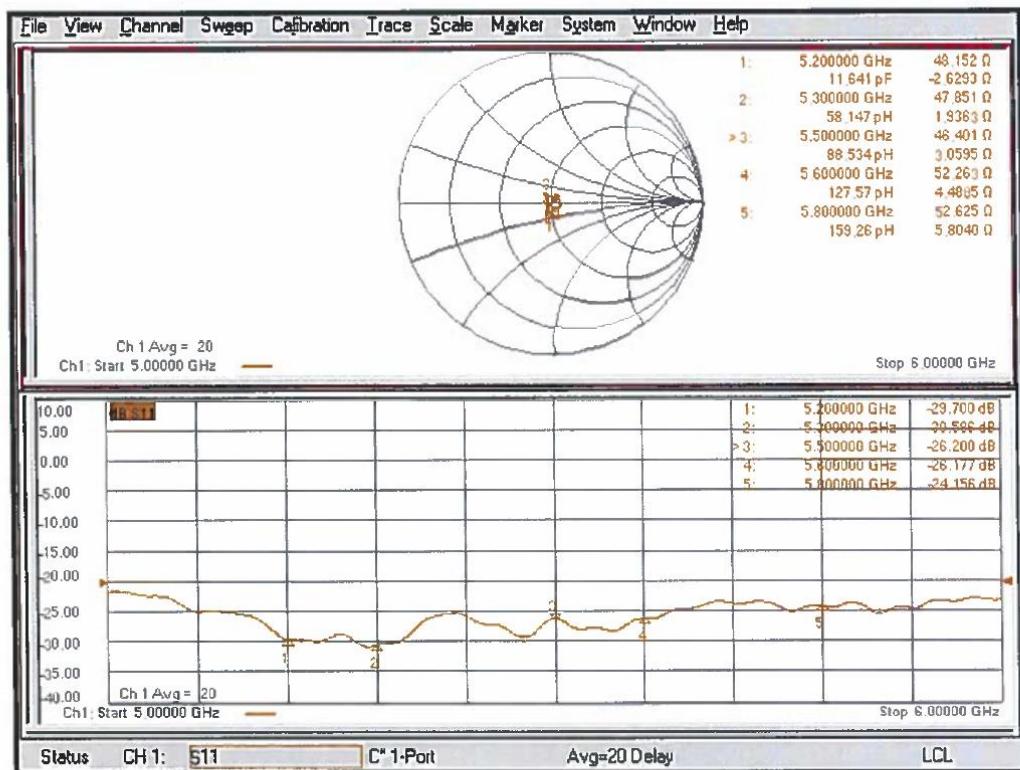
Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 18.0 W/kg





### Impedance Measurement Plot for Body TSL





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Accreditation No.: SCS 0108

Client **TÜV SÜD**  
Fareham, United Kingdom

Certificate No. **D6.5GHzV2-1070\_Nov23**

## CALIBRATION CERTIFICATE

Object	D6.5GHzV2 - SN:1070					
Calibration procedure(s)	QA CAL-22.v7 Calibration Procedure for SAR Validation Sources between 3-10 GHz					
Calibration date:	November 02, 2023					
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.						
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.						
Calibration Equipment used (M&TE critical for calibration)						
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration			
Power sensor R&S NRP33T	SN: 100967	03-Apr-23 (No. 217-03806)	Apr-24			
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24			
Mismatch combination	SN: 84224 / 360D	03-Apr-23 (No. 217-03812)	Apr-24			
Reference Probe EX3DV4	SN: 7405	12-Jun-23 (No. EX3-7405_Jun23)	Jun-24			
DAE4	SN: 908	03-Jul-23 (No. DAE4-908_Jul23)	Jul-24			
Secondary Standards	ID #	Check Date (in house)	Scheduled Check			
RF generator Anapico APSIN20G	SN: 827	18-Dec-18 (in house check Dec-21)	In house check: Dec-23			
Power sensor NRP-Z23	SN: 100169	10-Jan-19 (in house check Nov-22)	In house check: Nov-23			
Power sensor NRP-1BT	SN: 100950	28-Sep-22 (in house check Nov-22)	In house check: Nov-23			
Network Analyzer Keysight E5063A	SN: MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25			
Calibrated by:	Name Aldonia Georgiadou	Function Laboratory Technician	Signature 			
Approved by:	Sven Kühn	Technical Manager				
Issued: November 2, 2023						
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Certificate No: D6.5GHzV2-1070\_Nov23

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**Glossary:**

TS	tissue simulating liquid
ConvF	sensitivity in TS / NORM x,y,z
N/A	not applicable or not measured

**Calibration is Performed According to the Following Standards:**

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range Of 4 MHz To 10 GHz)", October 2020.

**Additional Documentation:**

- DASY System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TS:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TS parameters:* The measured TS parameters are used to calculate the nominal SAR result.
- The absorbed power density (APD):* The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.



### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY6	V16.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	5 mm	with Spacer
Zoom Scan Resolution	$dx, dy = 3.4 \text{ mm}, dz = 1.4 \text{ mm}$	Graded Ratio = 1.4 (Z direction)
Frequency	$6500 \text{ MHz} \pm 1 \text{ MHz}$	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	34.5	6.07 mho/m
Measured Head TSL parameters	$(22.0 \pm 0.2) \text{ °C}$	$34.6 \pm 6 \text{ %}$	$6.18 \text{ mho/m} \pm 6 \text{ %}$
Head TSL temperature change during test	$< 0.5 \text{ °C}$	---	---

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	29.6 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$296 \text{ W/kg} \pm 24.7 \text{ % (k=2)}$
SAR averaged over 8 cm <sup>3</sup> (8 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.66 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$66.6 \text{ W/kg} \pm 24.4 \text{ % (k=2)}$
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	5.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$54.6 \text{ W/kg} \pm 24.4 \text{ % (k=2)}$



### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.1 $\Omega$ - 3.5 $j\Omega$
Return Loss	- 28.8 dB

#### APD (Absorbed Power Density)

APD averaged over 1 $\text{cm}^2$	Condition	
APD measured	100 mW input power	296 $\text{W}/\text{m}^2$
APD measured	normalized to 1W	<b>2960 <math>\text{W}/\text{m}^2 \pm 29.2\% (k=2)</math></b>

APD averaged over 4 $\text{cm}^2$	condition	
APD measured	100 mW input power	133 $\text{W}/\text{m}^2$
APD measured	normalized to 1W	<b>1330 <math>\text{W}/\text{m}^2 \pm 28.9\% (k=2)</math></b>

\*The reported APD values have been derived using the psSAR1g and psSAR8g.

#### General Antenna Parameters and Design

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### Additional EUT Data

Manufactured by	SPEAG
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## DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1070, UID 0 -, Channel 6500 (6500.0MHz)

### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D6.5GHz	10.0 x 10.0 x 10.0	SN: 1070	-

### Exposure Conditions

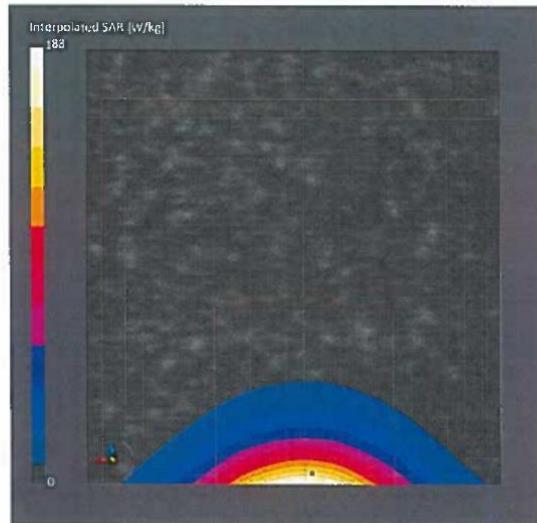
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Cond. [S/m]	TSL Permittivity
Flat, HSL	5.00	Band	CW,	6500	5.50	6.18	34.6

### Hardware Setup

Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MFP V8.0 Center - 1182	HBB600-10000V6	EX3DV4 - SN7405, 2023-06-12	DAE4 Sn908, 2023-07-03

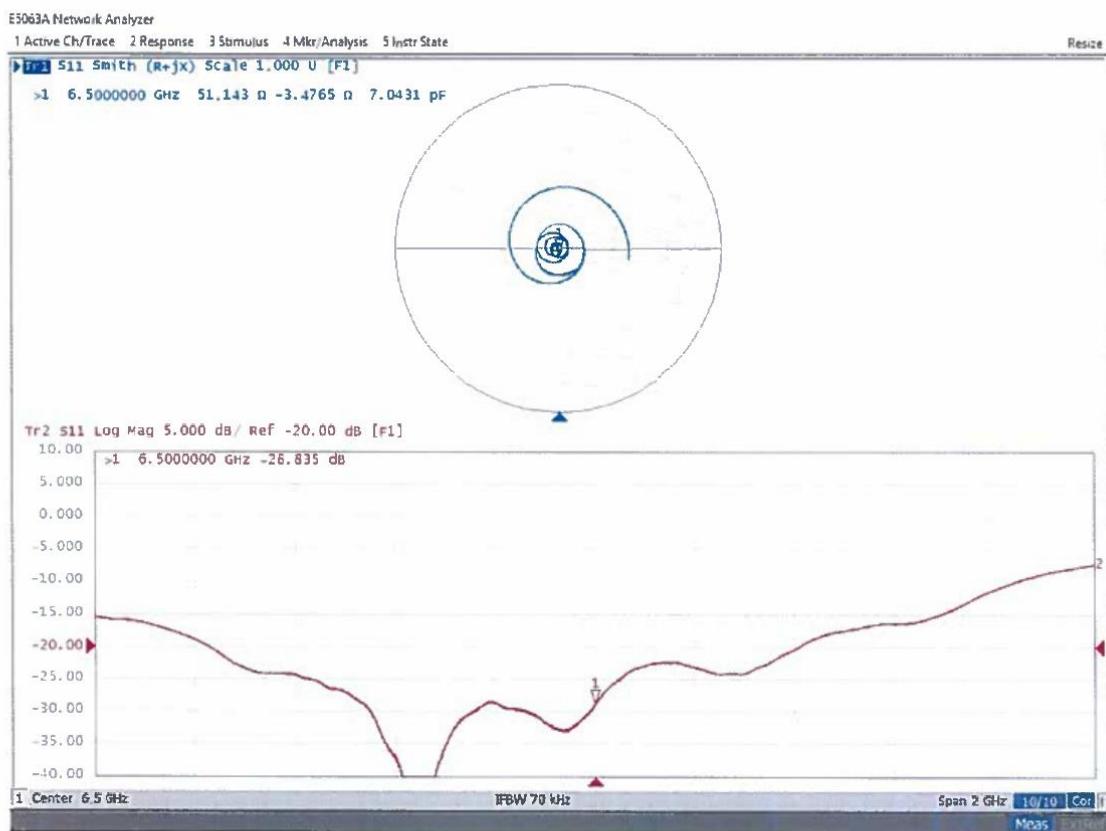
### Scan Setup

	Zoom Scan	Measurement Results	Zoom Scan
Grid Extents [mm]	22.0 x 22.0 x 22.0	Date	2023-11-02, 12:59
Grid Steps [mm]	3.4 x 3.4 x 1.4	psSAR1g [W/Kg]	29.6
Sensor Surface [mm]	1.4	psSAR8g [W/Kg]	6.66
Graded Grid	Yes	psSAR10g [W/Kg]	5.46
Grading Ratio	1.4	Power Drift [dB]	0.02
MAIA	N/A	Power Scaling	Disabled
Surface Detection	VMS + 6p	Scaling Factor [dB]	
Scan Method	Measured	TSL Correction	No correction
		M2/M1 [%]	51.2
		Dist 3dB Peak [mm]	4.6





### Impedance Measurement Plot for Head TSL





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Accreditation No.: **SCS 0108**

Client **TÜV SÜD**  
Fareham, United Kingdom

Certificate No. **P6500-PD\_1018\_Nov23**

## CALIBRATION CERTIFICATE

Object **P6500V2 - SN: 1018**

Calibration procedure(s) **QA CAL-45.v4**  
Calibration procedure for sources in air above 6 GHz

Calibration date: **November 07, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Reference Probe EUmmWV3	SN: 9374	2023-05-22(No. EUmm-9374_May23)	May-24
DAE4	SN: 1215	2023-06-29 (No. DAE4-1215_Jun23)	Jun-24

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMF100A	SN: 100184	19-May-22 (in house check Nov-22)	In house check: Nov-23
Power sensor R&S NRP18S-10	SN: 101258	31-May-22 (in house check Nov-22)	In house check: Nov-23
Network Analyzer Keysight E5063A	SN: MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25

Calibrated by: **Name: Lefl Klynsner** **Function: Laboratory Technician** **Signature:**

Approved by: **Name: Sven Kühn** **Function: Technical Manager** **Signature:**

Issued: November 9, 2023

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### Glossary

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CW Continuous wave

Accreditation No.: SCS 0108

### Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45, Calibration procedure for sources in air above 6 GHz.
- IEC/IEEE 63195-1, "Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)", May 2022

### Methods Applied and Interpretation of Parameters

- Coordinate System:* z-axis orthogonal to the top surface of P6500, y-axis is in the direction of the SMA connector, x-axis normal to y and z.
- Measurement Conditions:* During the measurements, the source is directly connected to the cable and measured without the spacer. Fields are measured at the stated antenna input power. Absorbers are used around the probe cup and at the ceiling to minimize reflections.
- Positioning:* The source is placed on the phantom and measured with the EUmmW probes at the measurement planes stated. The planes are parallel to the phantom and source surfaces. The probe distance is verified using mechanical gauges positioned on the surface of the source.
- E-field distribution:* E field is measured in two x-y-planes with an EUmmW probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm<sup>2</sup> and 4cm<sup>2</sup>) power density values at 2mm and 8mm from top surface of the source or 4mm and 10mm from top surface of the antenna patch.
- Feed Point Impedance and Return Loss:* These parameters are measured with the source radiating into air and absorbers present. The impedance stated is the impedance measured at the SMA connector.

### Calibrated Quantity

- Local peak E-field (V/m) and average of peak spatial components of the Poynting vector (W/m<sup>2</sup>) averaged over the surface area of 1 cm<sup>2</sup> and 4cm<sup>2</sup> at the nominal operational frequency of the source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY8 Module mmWave	V3.2
Phantom	5G Phantom	
Distance patch - plane	4 mm	
Number of measured planes	2 (4 mm, 4 mm + $\lambda/4$ )	
Frequency	6.5 GHz $\pm$ 1 MHz	

### Calibration Parameters, 6.5 GHz

#### Circular Averaging

Distance Antenna to Measured Plane	Pin (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )	Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>
4 mm	100	453	1.27 dB	232	166
	1000 <sup>1</sup>	1433	1.27 dB	2317	1663

Distance Antenna to Measured Plane	Pin (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m <sup>2</sup> )	Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>
4 mm	100	453	1.27 dB	201, 219, 275	131, 156, 212
	1000 <sup>1</sup>	1433	1.27 dB	2010, 2190, 2750	1310, 1560, 2120

#### Square Averaging

Distance Antenna to Measured Plane	Pin (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )	Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>
4 mm	100	453	1.27 dB	233	167
	1000 <sup>1</sup>	1433	1.27 dB	2330	1670

Distance Antenna to Measured Plane	Pin (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m <sup>2</sup> )	Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>
4 mm	100	453	1.27 dB	202, 220, 277	132, 156, 213
	1000 <sup>1</sup>	1433	1.27 dB	2020, 2200, 2770	1320, 1560, 2130

<sup>1</sup> Measured result normalized to 1W input power.



**Max Power Density**

Distance Antenna to Measured Plane	<i>P<sub>in</sub></i> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Max Power Density S <sub>n</sub> , S <sub>tot</sub> ,  S <sub>tot</sub>   (W/m <sup>2</sup> )	Uncertainty (k = 2)
4 mm	100	453	1.27 dB	257, 278, 348	1.28 dB
	1000 <sup>1</sup>	1433	1.27 dB	2570, 2780, 3480	1.28 dB

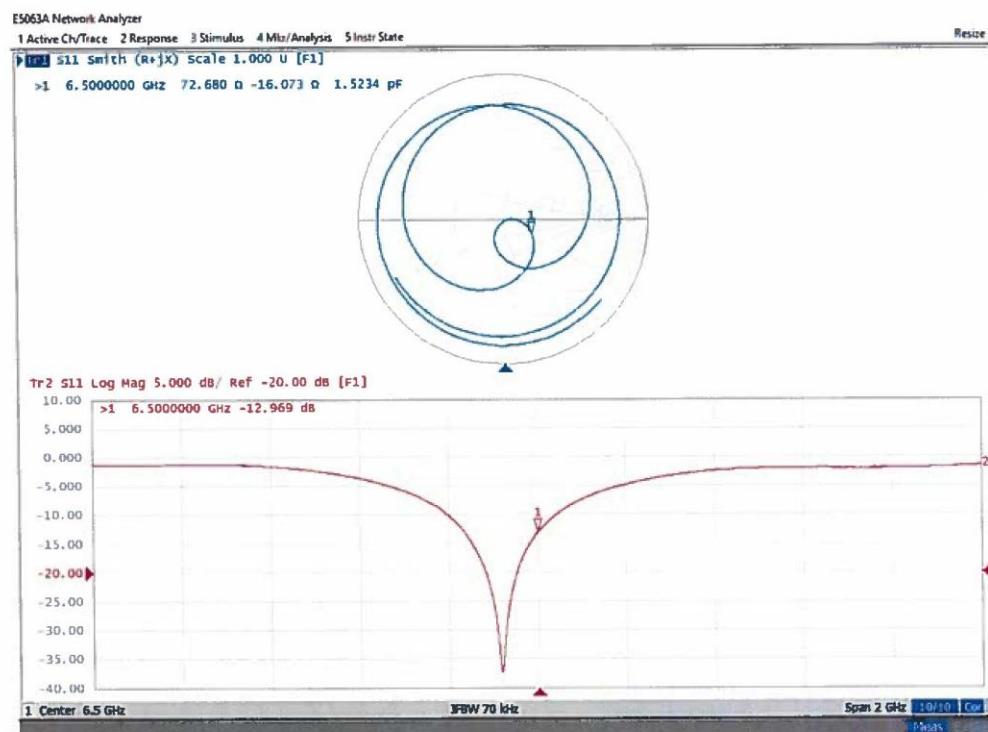


### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters

Impedance, transformed to feed point	72.7 $\Omega$ - 16.1 $j\Omega$
Return Loss	- 13.0 dB

#### Impedance Measurement Plot





## DASY Report

### Measurement Report for P6500V2, UID 0 -, Channel 6500 (6500.0MHz)

#### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
P6500V2	100.0 x 100.0 x 100.0	SN: 1018	-

#### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
SG +	2.0 mm	Validation band	CW	6500.0, 6500	1.0

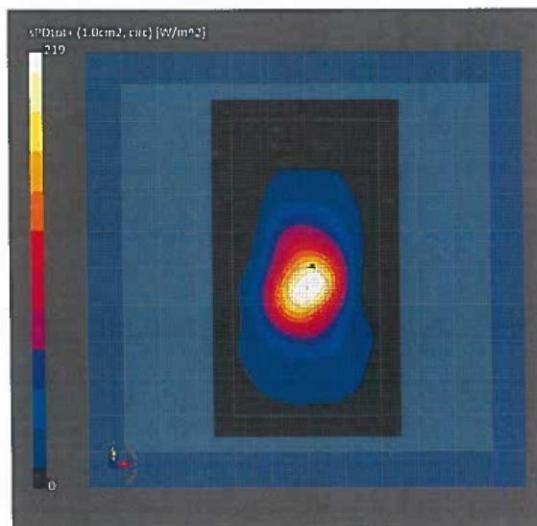
#### Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV4 - SN9374_F1-55GHz, 2023-05-22	DAE4 Sn1215, 2023-06-29

#### Scan Setup

	5G Scan	5G Scan
Grid Extents (auto extend) [mm]	50.0 x 90.0	2023-11-07, 11:45
Grid Steps (automatic) [ $\lambda$ ]	0.044 x 0.044	1.00
Sensor Surface [mm]	2.0	Circular Averaging
MAIA	MAIA not used	201
		219
		275
		257
		278
		348
		453
		0.01

#### Measurement Results





## DASY Report

Measurement Report for P6500V2, UID 0 -, Channel 6500 (6500.0MHz)

## Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
P6500V2	100.0 x 100.0 x 100.0	SN: 1018	-

## Exposure Conditions

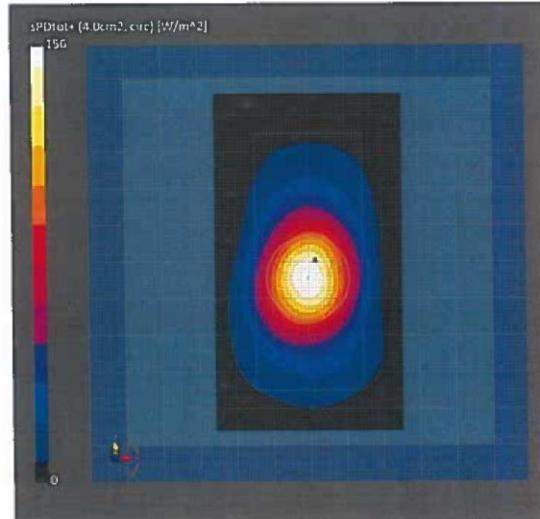
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	2.0 mm	Validation band	CW	6500.0, 6500	1.0

## Hardware Setup

Hardware Setup	Medium	Probe, Calibration Date	DAE, Calibration Date
Phantom mmWave Phantom - 1002	Air	EUmmWV4 - SN9374_F1-55GHz, 2023-05-22	DAE4 Sn1215, 2023-06-29

## Scan Setup

Scan Setup	5G Scan	5G Scan
Grid Extents (auto extend) [mm]	50.0 x 90.0	Date
Grid Steps (automatic) [ $\lambda$ ]	0.044 x 0.044	Avg. Area [cm <sup>2</sup> ]
Sensor Surface [mm]	2.0	Avg. Type
MAIA	MAIA not used	psPDn+ [W/m <sup>2</sup> ]
		psPDtot+ [W/m <sup>2</sup> ]
		psPDmod+ [W/m <sup>2</sup> ]
		Max(Sn) [W/m <sup>2</sup> ]
		Max( Stot ) [W/m <sup>2</sup> ]
		Max( Stot ) [W/m <sup>2</sup> ]
		E <sub>max</sub> [V/m]
		Power Drift [dB]





## DASY Report

### Measurement Report for P6500V2, UID 0 -, Channel 6500 (6500.0MHz)

#### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
P6500V2	100.0 x 100.0 x 100.0	SN: 1018	-

#### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
SG -	2.0 mm	Validation band	CW	6500.0, 6500	1.0

#### Hardware Setup

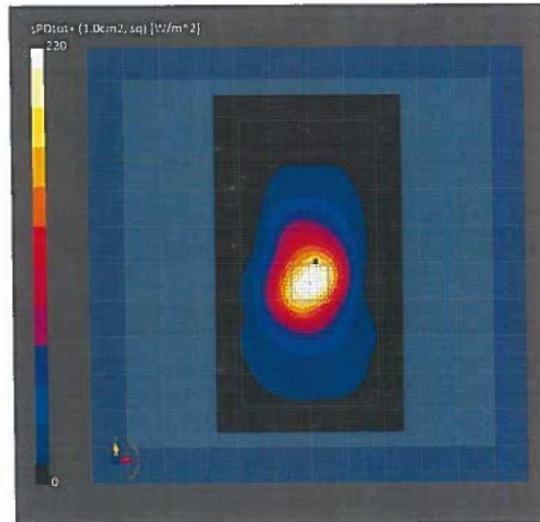
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV4 - SN9374_F1-55GHz, 2023-05-22	DAE4 Sn1215, 2023-06-29

#### Scan Setup

	5G Scan	5G Scan
Grid Extents (auto extend) [mm]	50.0 x 90.0	2023-11-07, 11:45
Grid Steps (automatic) [ $\lambda$ ]	0.044 x 0.044	1.00
Sensor Surface [mm]	2.0	Square Averaging
MAIA	MAIA not used	202

#### Measurement Results

	5G Scan
Date	2023-11-07, 11:45
Avg. Area [cm <sup>2</sup> ]	1.00
Avg. Type	Square Averaging
psPDn+ [W/m <sup>2</sup> ]	202
psPDo+ [W/m <sup>2</sup> ]	220
psPDmod+ [W/m <sup>2</sup> ]	277
Max(Sn) [W/m <sup>2</sup> ]	257
Max(Stot) [W/m <sup>2</sup> ]	278
Max( Stot ) [W/m <sup>2</sup> ]	348
E <sub>max</sub> [V/m]	453
Power Drift [dB]	0.01



## DASY Report

### Measurement Report for P6500V2, UID 0 -, Channel 6500 (6500.0MHz)

#### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
P6500V2	100.0 x 100.0 x 100.0	SN: 1018	-

#### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G +	2.0 mm	Validation band	CW	6500.0, 6500	1.0

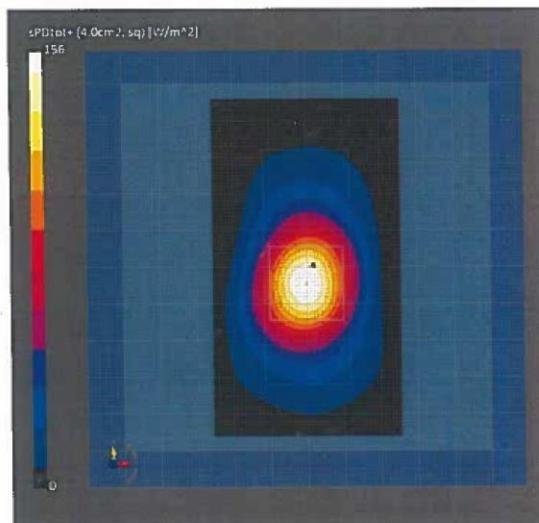
#### Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWVA - SN9374_F1-55GHz, 2023-05-22	DAE4 Sn1215, 2023-06-29

#### Scan Setup

	5G Scan	5G Scan
Grid Extents (auto extend) [mm]	50.0 x 90.0	2023-11-07, 11:45
Grid Steps (automatic) [lambda]	0.044 x 0.044	4.00
Sensor Surface [mm]	2.0	Square Averaging
MAIA	MAIA not used	132
		156
		213
		257
		278
		348
		453
		0.01

#### Measurement Results





## ANNEX C

### TEST RESULTS



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 2.4 GHz, IEEE 802.11b WiFi  
2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), Channel 11 (2462.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2462.0, 11	7.48	1.84	40.3

**Hardware Setup**

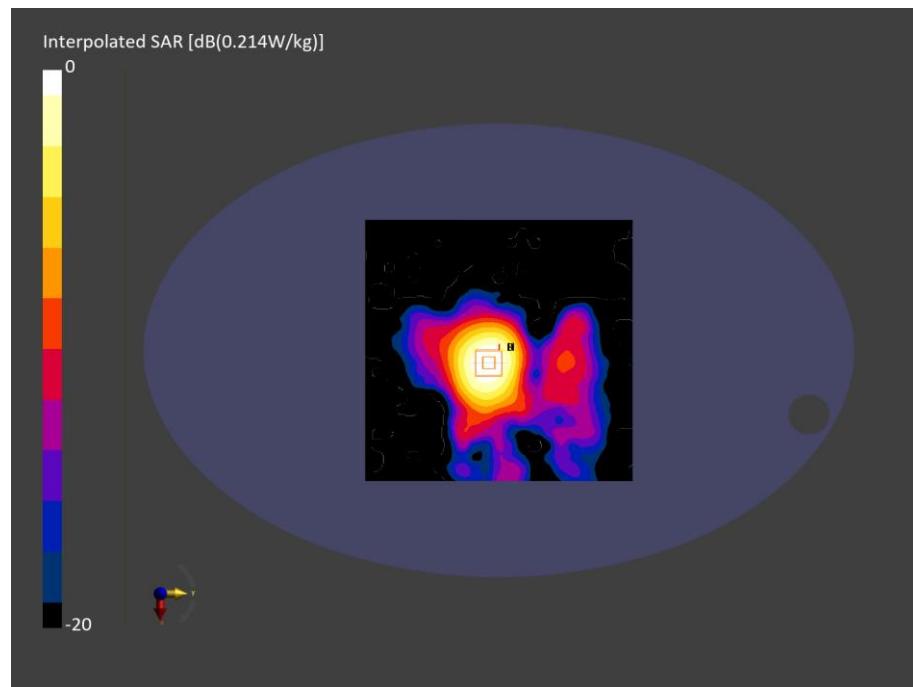
Phantom	TSI, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-07, 19:41	2024-03-07, 19:50
psSAR1g [W/Kg]	0.174	0.179
psSAR10g [W/Kg]	0.096	0.101
Power Drift [dB]	0.04	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		18.7



**Figure C.1: Testing Results for the MP11000 at 2462 MHz Antenna A**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 2.4 GHz, IEEE 802.11b WiFi  
2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), Channel 11 (2462.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2462.0, 11	7.48	1.84	40.3

**Hardware Setup**

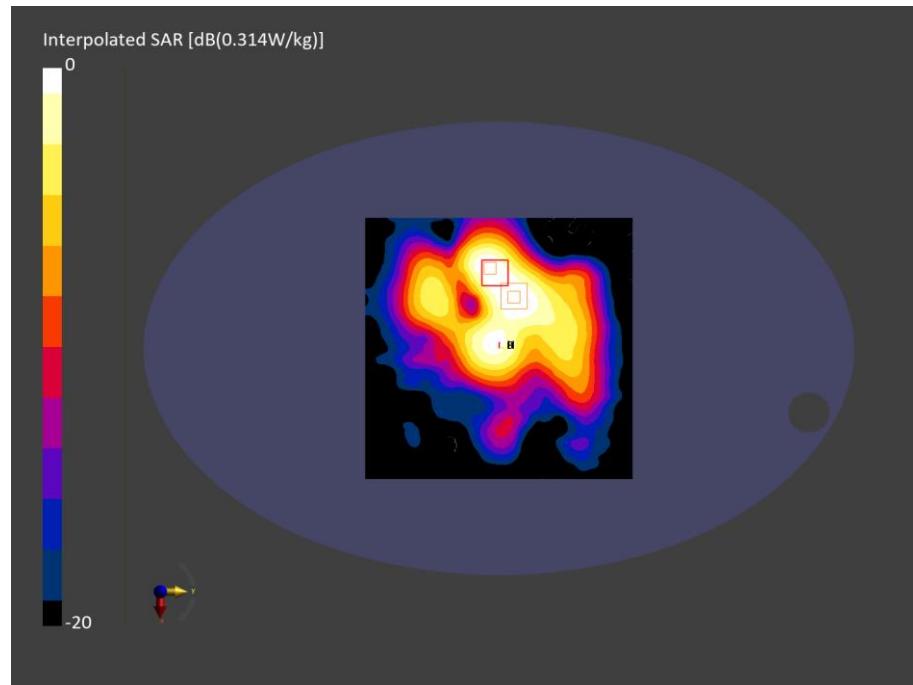
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
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	2024-03-08, 19:37	2024-03-08, 19:46
psSAR1g [W/Kg]	0.257	0.253
psSAR10g [W/Kg]	0.146	0.141
Power Drift [dB]	-0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		14.8



**Figure C.2: Testing Results for the MP11000 at 2462 MHz Antenna B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 2.4 GHz, IEEE 802.11g WiFi  
2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle), Channel 6 (2437.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 2.4GHz	WLAN, 10564-AAA	, 6	7.48	1.82	40.3

**Hardware Setup**

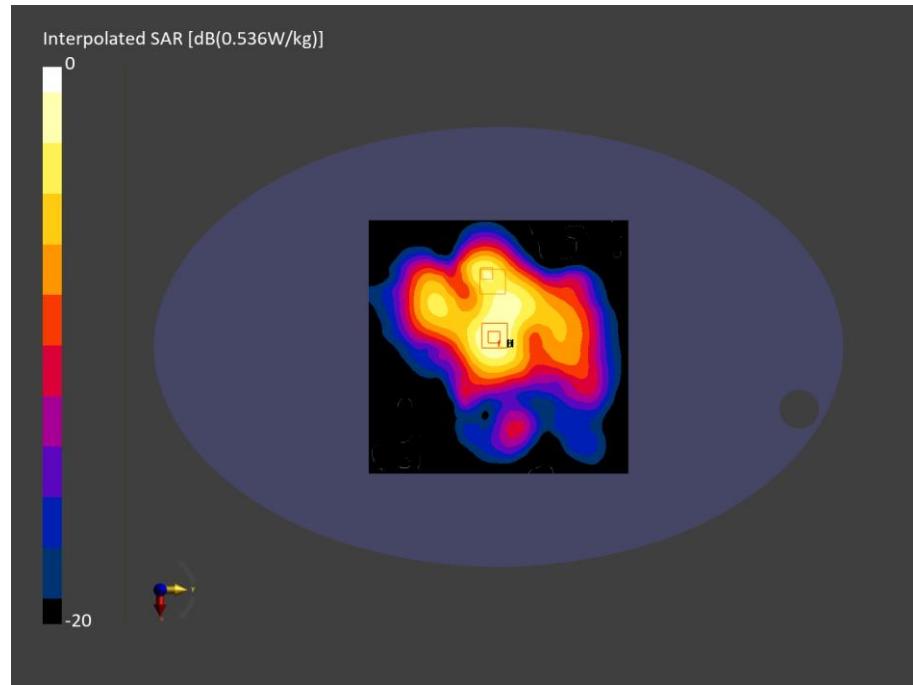
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

**Scans Setup**

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 220.0	30.0 x 30.0 x 30.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.5	1.5
MAIA	Y	N/A	Y
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan	Zoom Scan
Date	2024-03-08, 16:25	2024-03-08, 16:32	2024-03-08, 16:40
psSAR1g [W/Kg]	0.299	0.304	0.212
psSAR10g [W/Kg]	0.171	0.177	0.119
Power Drift [dB]	-0.01	-0.01	-0.03
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		82.6	84.3
Dist 3dB Peak [mm]		> 15.0	13.7



**Figure C.3: Testing Results for the MP11000 at 2437 MHz Antenna A & B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 2.4 GHz, IEEE 802.11g WiFi  
2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle), Channel 11 (2462.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 2.4GHz	WLAN, 10564-AAA	2462.0, 11	7.48	1.84	40.3

**Hardware Setup**

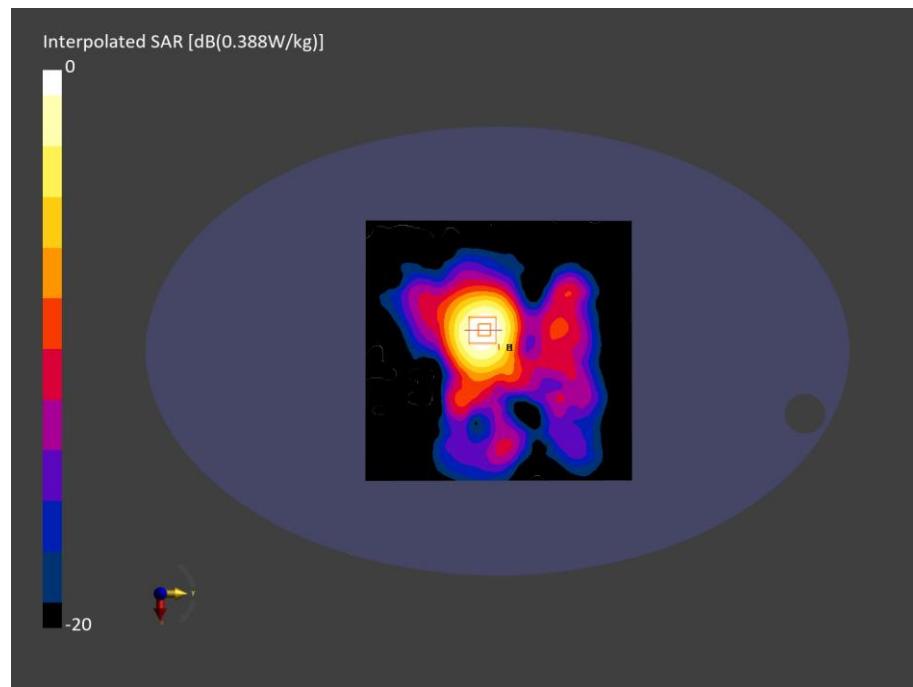
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
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	2024-03-08, 12:30	2024-03-08, 12:38
psSAR1g [W/Kg]	0.313	0.315
psSAR10g [W/Kg]	0.172	0.177
Power Drift [dB]	-0.07	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		81.8
Dist 3dB Peak [mm]		18.1



**Figure C.4: Testing Results for the MP11000 at 2462 MHz Antenna A**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 2.4 GHz, IEEE 802.11g WiFi  
2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle), Channel 6 (2437.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 2.4GHz	WLAN, 10564-AAA	2437.0, 6	7.48	1.82	40.3

**Hardware Setup**

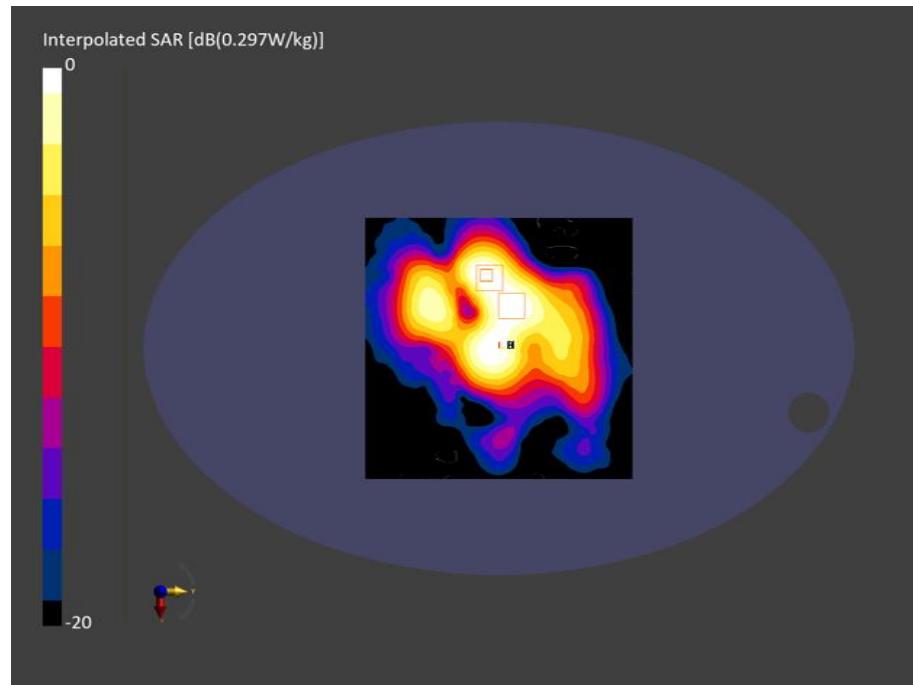
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
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	2024-03-08, 13:43	2024-03-08, 13:50
psSAR1g [W/Kg]	0.238	0.238
psSAR10g [W/Kg]	0.135	0.128
Power Drift [dB]	-0.08	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		13.5



**Figure C.5: Testing Results for the MP11000 at 2437 MHz Antenna B**



## Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK), Channel 46 (5230.000 MHz)

### Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10117-CAD	5230.000, 46	5.21	4.48	33.9

### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 19.85 deg.C 2024-Mar-08 SYS5 B5.prm, 2024-Mar-08	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-08, 21:27	2024-03-08, 21:38
psSAR1g [W/Kg]	0.371	0.383
psSAR10g [W/Kg]	0.148	0.151
Power Drift [dB]	0.17	0.22
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		64.3
Dist 3dB Peak [mm]		12.0

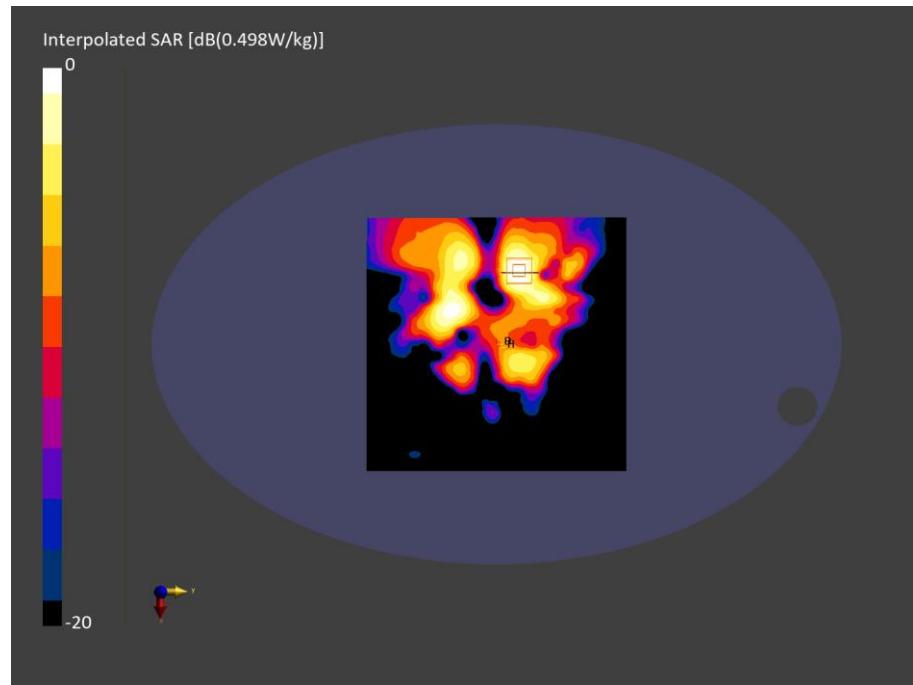


Figure C.6: Testing Results for the MP11000 at 5230 MHz Antenna A



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11a/h  
WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle), Channel 48 (5240.000 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10417-AAC	5240.000, 48	5.21	4.49	33.9

**Hardware Setup**

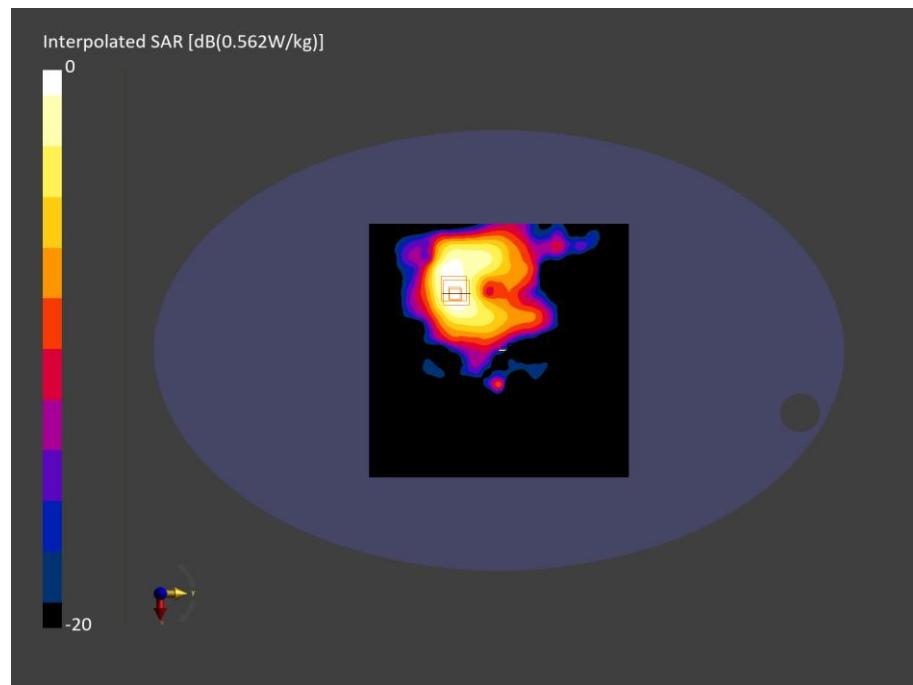
Phantom	TSI, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 19.85 deg.C 2024-Mar-08 SYS5 B5.prm, 2024-Mar-08	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-09, 04:10	2024-03-09, 04:17
psSAR1g [W/Kg]	0.418	0.435
psSAR10g [W/Kg]	0.180	0.180
Power Drift [dB]	-0.08	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		64.1
Dist 3dB Peak [mm]		13.6



**Figure C.7: Testing Results for the MP11000 at 5240 MHz Antenna B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, U-NII-1, U-NII-2A, IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK), Channel 46 (5230.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	U-NII-1, U-NII-2A	WLAN, 10117-CAD	, 46	5.21	4.41	34.9

**Hardware Setup**

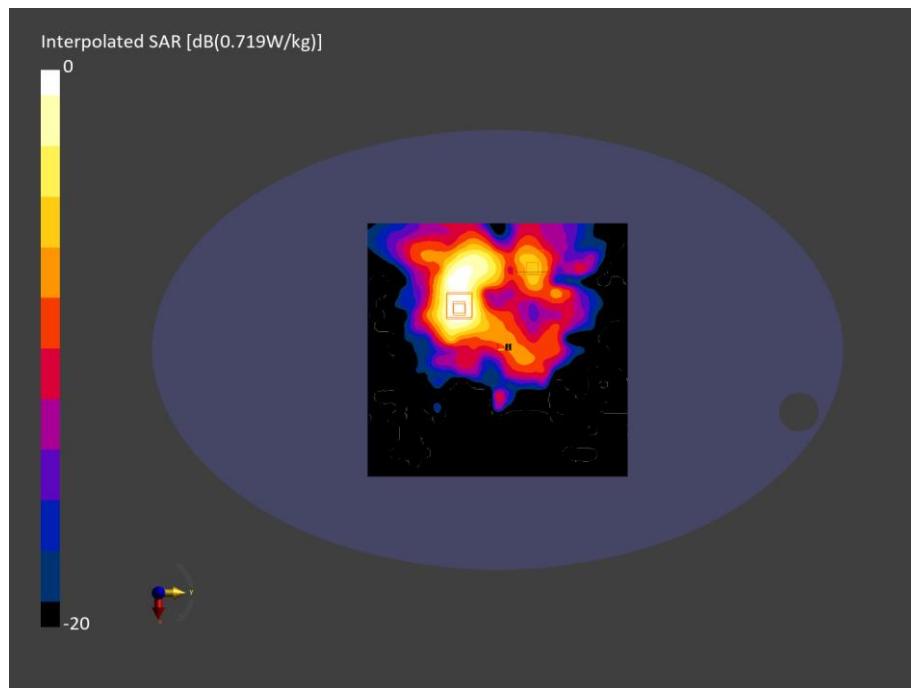
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 21.21 deg.C 2024-Mar-13 SYS5 B5.prm, 2024-Mar-13	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 220.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.4	1.4
MAIA	Y	N/A	Y
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan	Zoom Scan
Date	2024-03-14, 03:06	2024-03-14, 03:13	2024-03-14, 03:22
psSAR1g [W/Kg]	0.539	0.583	0.158
psSAR10g [W/Kg]	0.224	0.235	0.059
Power Drift [dB]	-0.01	0.02	-0.03
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		68.1	58.1
Dist 3dB Peak [mm]		13.5	9.4



**Figure C.8: Testing Results for the MP11000 at 5230 MHz Antenna A & B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, U-NII-1, U-NII-2A, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle), Channel 60 (5300.000 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	U-NII-1, U-NII-2A	WLAN, 10417-AAC	5320.000, 64	5.02	4.60	34.4

**Hardware Setup**

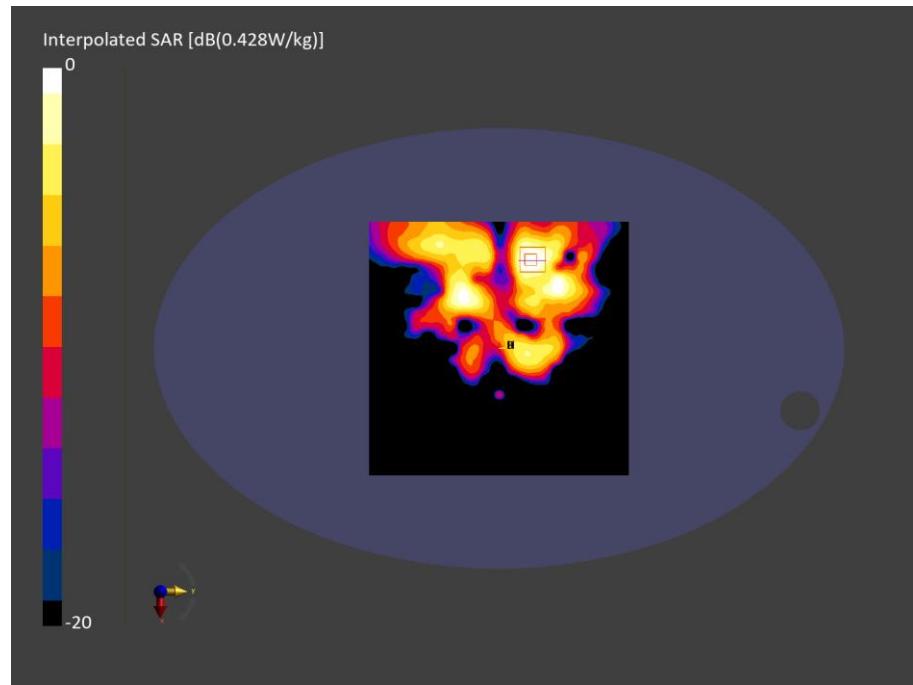
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 20.35 deg.C 2024-Mar-11 SYS5 B5.prm, 2024-Mar-11	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-13, 05:58	2024-03-13, 06:05
psSAR1g [W/Kg]	0.402	0.406
psSAR10g [W/Kg]	0.128	0.130
Power Drift [dB]	0.09	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		62.9
Dist 3dB Peak [mm]		13.1



**Figure C.9: Testing Results for the MP11000 at 5300 MHz Antenna A**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11a/h  
WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle), Channel 60 (5300.000 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10417-AAC	5300.000, 60	5.02	4.55	33.8

**Hardware Setup**

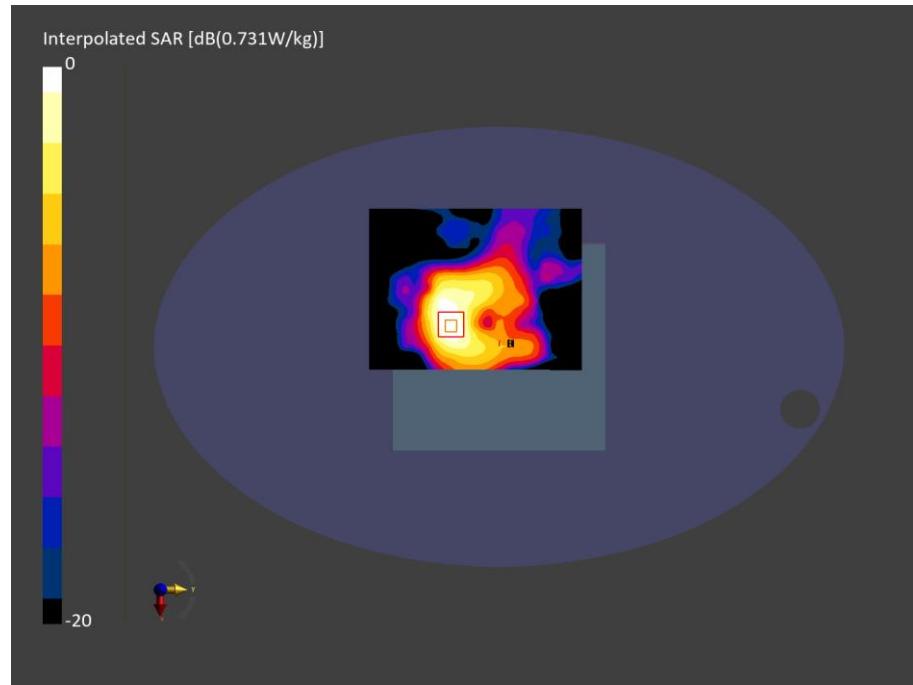
Phantom	TSI, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 19.85 deg.C 2024-Mar-08 SYS5 B5.prm, 2024-Mar-08	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 180.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-09, 15:47	2024-03-09, 15:56
psSAR1g [W/Kg]	0.546	0.574
psSAR10g [W/Kg]	0.230	0.236
Power Drift [dB]	0.01	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		13.8



**Figure C.10: Testing Results for the MP11000 at 5300 MHz Antenna B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11a/h  
WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle), Channel 60 (5300.000 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10417-AAC	5300.000, 60	5.02	4.55	33.8

**Hardware Setup**

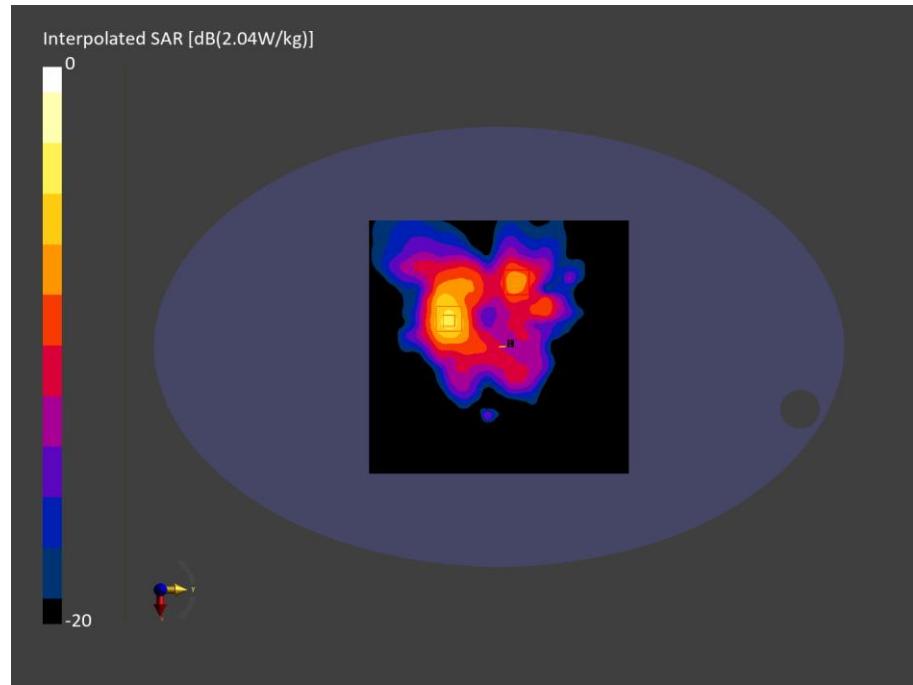
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 19.85 deg.C 2024-Mar-08 SYS5 B5.prm, 2024-Mar-08	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 220.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	N/A	Yes	Yes
Grading Ratio	N/A	1.4	1.4
MAIA	Y	N/A	Y
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan	Zoom Scan
Date	2024-03-09, 20:48	2024-03-09, 20:55	2024-03-09, 21:04
psSAR1g [W/Kg]	0.569	0.584	0.302
psSAR10g [W/Kg]	0.234	0.237	0.119
Power Drift [dB]	0.01	-0.12	-0.16
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		63.3	64.0
Dist 3dB Peak [mm]		14.9	13.4



**Figure C.11: Testing Results for the MP11000 at 5300 MHz Antenna A & B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5GHz, IEEE 802.11a/h  
WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle), Channel 104 (5520.000 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10518-AAD	5520.000, 104	4.98	4.99	34.7

**Hardware Setup**

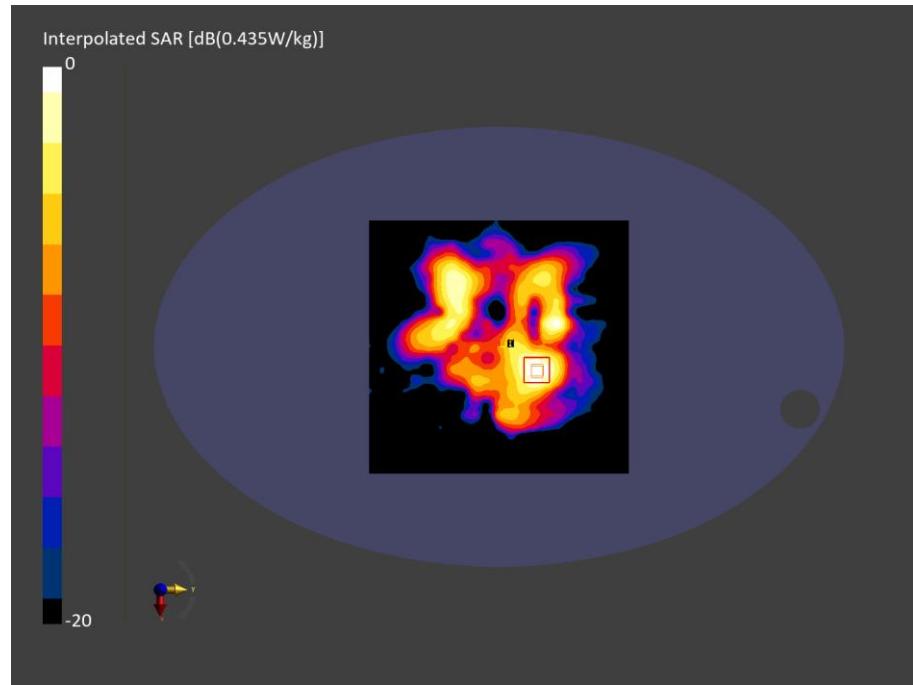
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-09, 14:31	2024-03-09, 14:40
psSAR1g [W/Kg]	0.320	0.330
psSAR10g [W/Kg]	0.124	0.128
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		64.0
Dist 3dB Peak [mm]		12.7



**Figure C.12: Testing Results for the MP11000 at 5520 MHz Antenna A**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11ac WiFi  
(80 MHz, MCS0, 99pc duty cycle), Channel 138 (5690.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10544-AAC	5690.0, 138	4.65	4.98	33.0

**Hardware Setup**

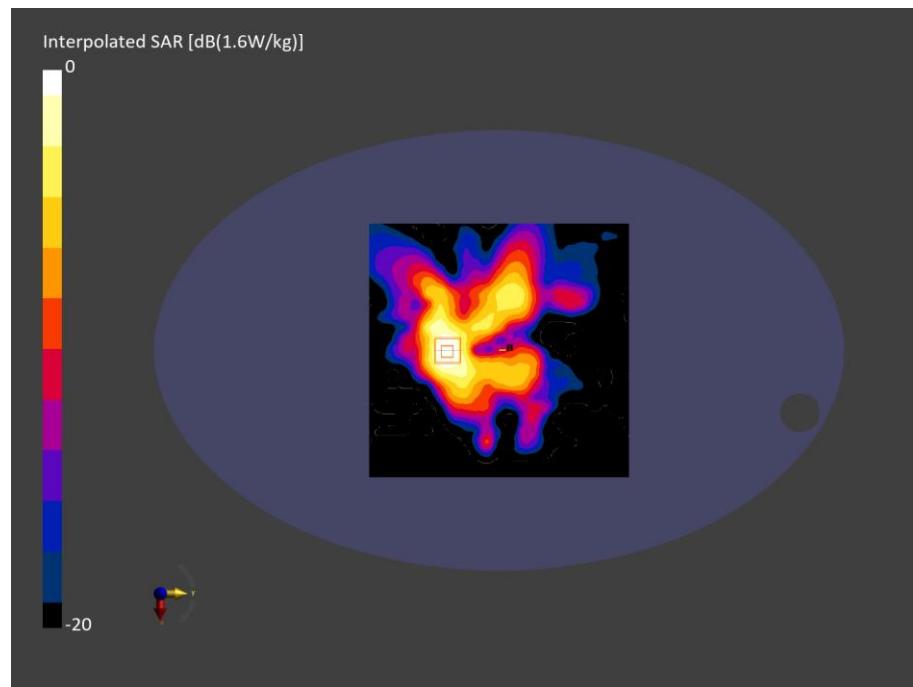
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 19.85 deg.C 2024-Mar-08 SYS5 B5.prm, 2024-Mar-08	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-10, 00:21	2024-03-10, 00:29
psSAR1g [W/Kg]	1.21	1.21
psSAR10g [W/Kg]	0.487	0.477
Power Drift [dB]	-0.04	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		12.2



**Figure C.13: Testing Results for the MP11000 at 5690 MHz Antenna B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11ac WiFi  
(80 MHz, MCS0, 99pc duty cycle), Channel 138 (5690.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10544-AAC	, 138	4.65	5.01	33.8

**Hardware Setup**

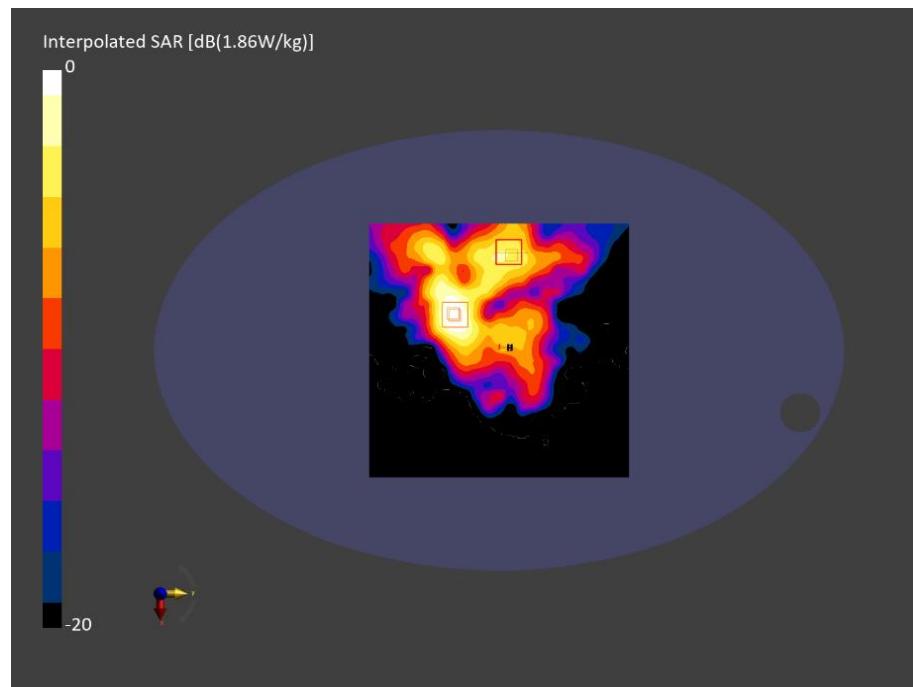
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 20.35 deg.C 2024-Mar-11 SYS5 B5.prm, 2024-Mar-11	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 220.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.4	1.4
MAIA	N/A	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan	Zoom Scan
Date	2024-03-11, 15:14	2024-03-11, 15:22	2024-03-11, 15:31
psSAR1g [W/Kg]	1.42	1.34	0.703
psSAR10g [W/Kg]	0.581	0.544	0.295
Power Drift [dB]	0.14	0.02	0.02
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		62.4	59.5
Dist 3dB Peak [mm]		12.8	12.5



**Figure C.14: Testing Results for the MP11000 at 5690 MHz Antenna A & B**



## Measurement Report for Mobile Processor, EDGE BOTTOM, WLAN 5 GHz, IEEE 802.11n (HT Mixed, 15 Mbps, BPSK), Channel 151 (5755.0 MHz)

### Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10222-CAE	5755.0, 151	4.77	5.27	34.3

### Hardware Setup

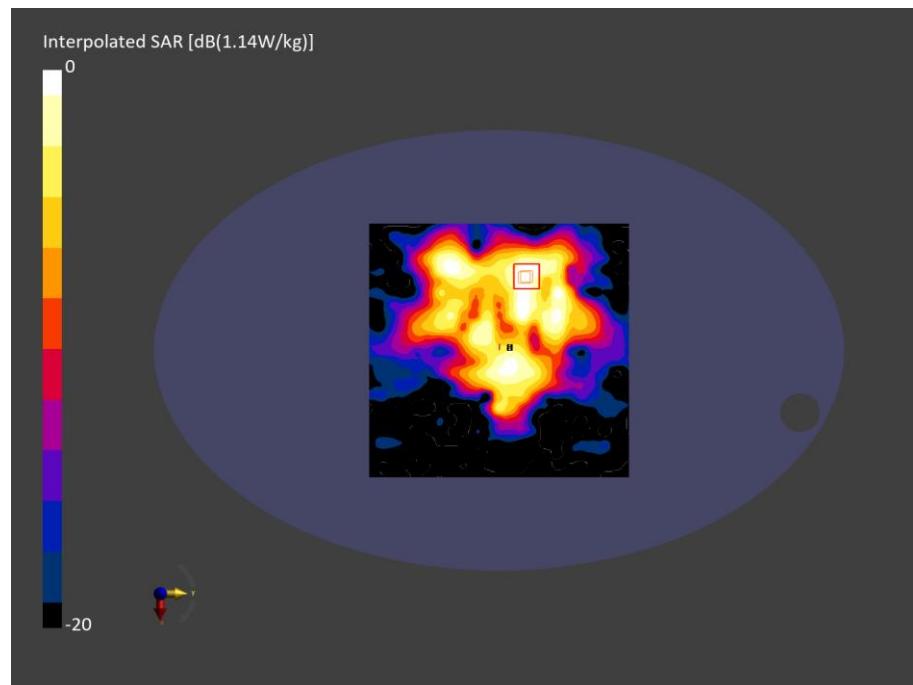
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - SN:2057	HBBL-600-10000 DAK 3.5 Head 19.76 deg.C 2024-Mar-07 SYS1 B1.prn, 2024-Mar-07	EX3DV4 - SN3759, 2023-12-14	DAE4 Sn475, 2023-12-11

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-10, 12:55	2024-03-10, 13:04
psSAR1g [W/Kg]	0.305	0.316
psSAR10g [W/Kg]	0.123	0.124
Power Drift [dB]	0.02	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		10.1



**Figure C.15: Testing Results for the MP11000 at 5755 MHz Antenna A**



**Measurement Report for Mobile Processor, EDGE BOTTOM, U-NII-2C, U-NII-3, IEEE 802.11n  
(HT Mixed, 13.5 Mbps, BPSK), Channel 151 (5755.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	U-NII-2C, U-NII-3	WLAN, 10117-CAD	5755.0, 151	4.66	4.96	34.3

**Hardware Setup**

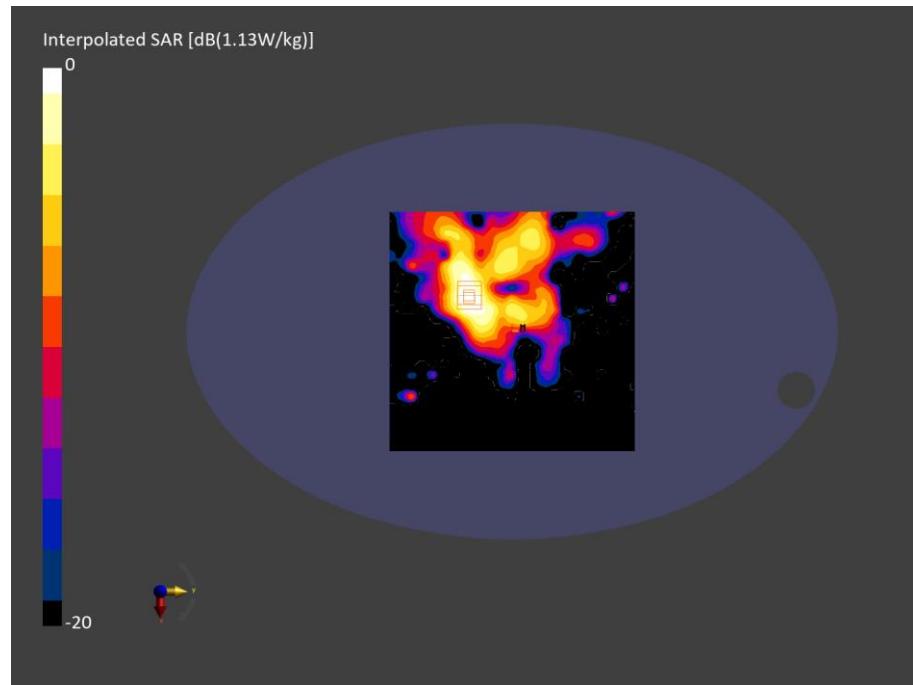
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 22.55 deg.C 2024-Apr-02 SYS5 B5.prn, 2024-Apr-02	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-04-03, 15:51	2024-04-03, 15:58
psSAR1g [W/Kg]	0.850	0.869
psSAR10g [W/Kg]	0.345	0.343
Power Drift [dB]	0.51	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		11.9



**Figure C.16: Testing Results for the MP11000 at 5755 MHz Antenna B**



**Measurement Report for Mobile Processor, EDGE BOTTOM, U-NII-2C, U-NII-3, IEEE 802.11n  
(HT Mixed, 13.5 Mbps, BPSK), Channel 151 (5755.000 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	U-NII-2C, U-NII-3	WLAN, 10117-CAD	5755.000, 151	4.66	4.98	34.0

**Hardware Setup**

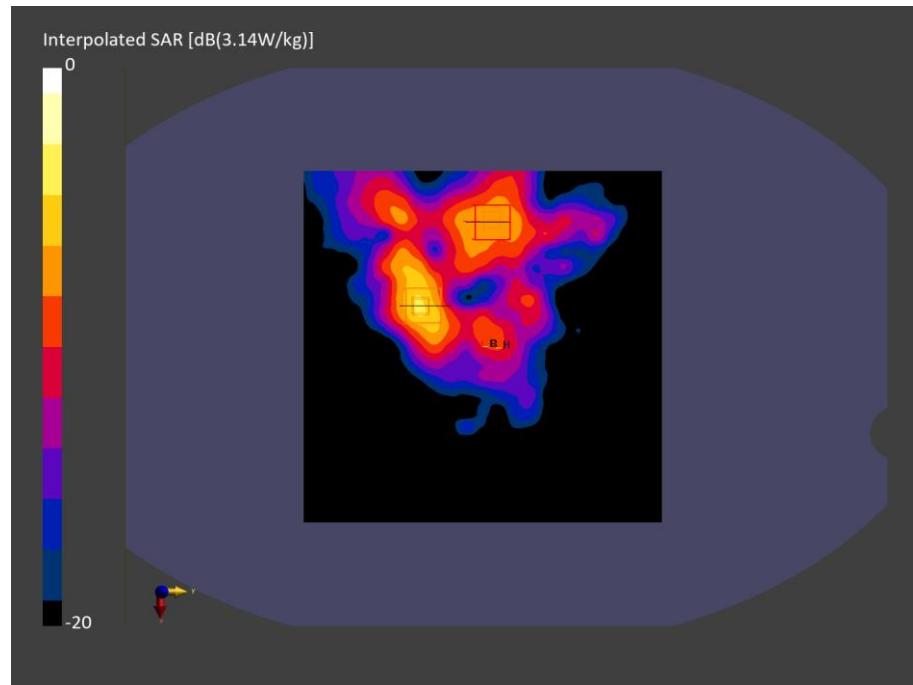
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 21.21 deg.C 2024-Mar-13 SYS5 B5.prm, 2024-Mar-13	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 220.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	N/A	Yes	Yes
Grading Ratio	N/A	1.4	1.4
MAIA	N/A	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan	Zoom Scan
Date	2024-03-14, 04:43	2024-03-14, 04:55	2024-03-14, 05:03
psSAR1g [W/Kg]	0.799	0.803	0.513
psSAR10g [W/Kg]	0.318	0.322	0.220
Power Drift [dB]	-0.05	-0.61	0.18
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	No correction	No correction	No correction
M2/M1 [%]		58.9	53.8
Dist 3dB Peak [mm]		12.5	18.2



**Figure C.17: Testing Results for the MP11000 at 5755 MHz Antenna A & B**



## Measurement Report for Mobile Processor, BACK, U-NII-5, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 7 (5985.0 MHz)

### Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

### 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	U-NII-5	WLAN, 10731-AAC	5985.0, 7	5.07	5.23	33.6

### Hardware Setup

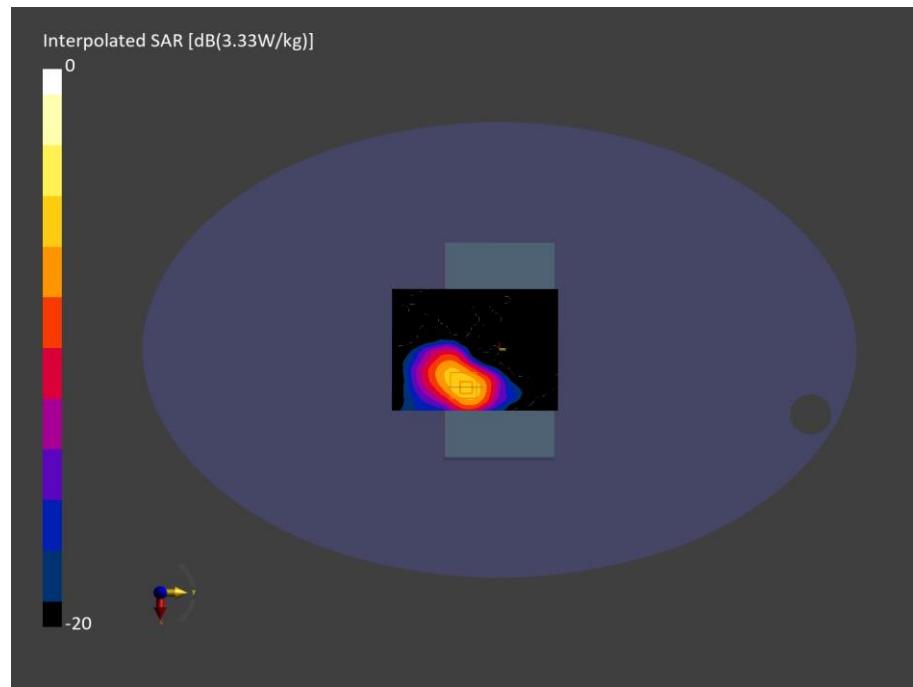
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 21.21 deg.C 2024-Mar-13 SYS5 B5.prm, 2024-Mar-13	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-13, 21:13	2024-03-13, 21:22
psSAR1g [W/Kg]	0.781	0.816
psSAR10g [W/Kg]	0.320	0.325
Power Drift [dB]	-0.27	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.8
Dist 3dB Peak [mm]		13.1



**Figure C.18: Testing Results for the MP11000 at 5985 MHz Antenna A**



**Measurement Report for Mobile Processor, EDGE BOTTOM, U-NII-5, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 7 (5985.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	U-NII-5	WLAN, 10731-AAC	5985.0, 7	5.07	5.23	33.6

**Hardware Setup**

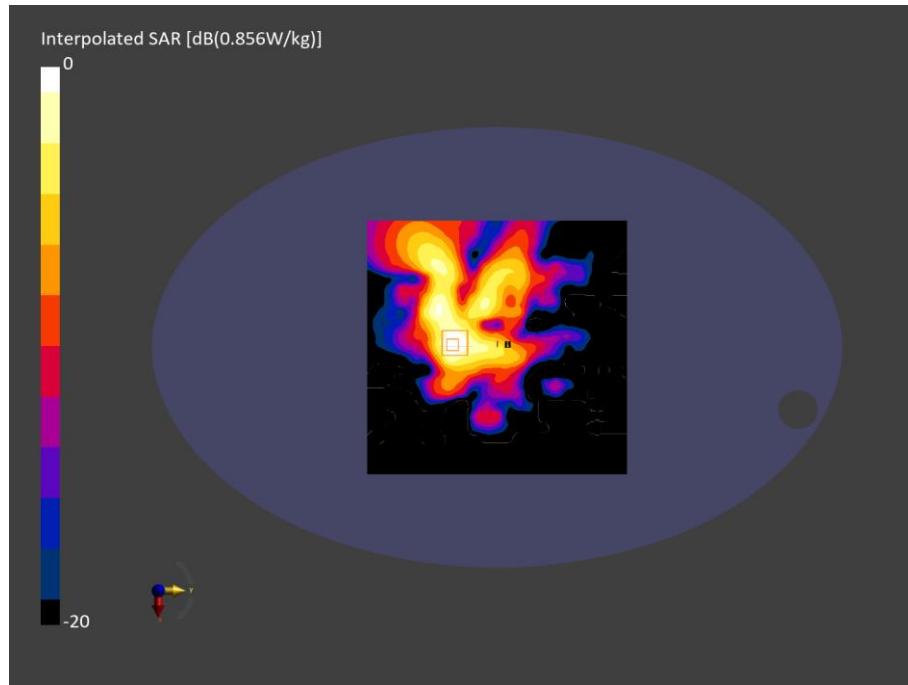
Phantom	TSL, Measured Date	Probe, Calibration Date	6
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 21.21 deg.C 2024-Mar-13 SYS5 B5.prn, 2024-Mar-13	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1785, 2023-04-03

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	220.0 x 220.0	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
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-13, 14:08	2024-03-13, 14:16
psSAR1g [W/Kg]	0.631	0.639
psSAR10g [W/Kg]	0.245	0.248
Power Drift [dB]	-0.19	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.6
Dist 3dB Peak [mm]		10.4



**Figure: C.19: Testing Results for the MP11000 at 5985 MHz Antenna B**



**Measurement Report for Mobile Processor, BACK, U-NII-5, IEEE 802.11ax  
(80 MHz, MCS0, 99pc duty cycle), Channel 23 (6065.0 MHz)**

**Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MP11000, FARO,	199.0 x 184.0 x 91.0		Mobile Processor

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	BACK, 2.00	U-NII-5	WLAN, 10731-AAC	6065.0, 23	1.0

**Hardware Setup**

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1112	Air -	EUmmWV4 - SN9641_F1-55GHz, 2023-10-24	DAE4ip Sn1786, 2023-04-03

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	140.0 x 100.0
Grid Steps [lambda]	0.04129566664521176 x 0.04129566664521176
Sensor Surface [mm]	2.0
MAIA	Y

**Measurement Results**

Scan Type	5G Scan
Date	2024-03-18, 19:42
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	4.07
psPDtot+ [W/m <sup>2</sup> ]	4.59
psPDmod+ [W/m <sup>2</sup> ]	4.94
E <sub>max</sub> [V/m]	54.3
Power Drift [dB]	0.10

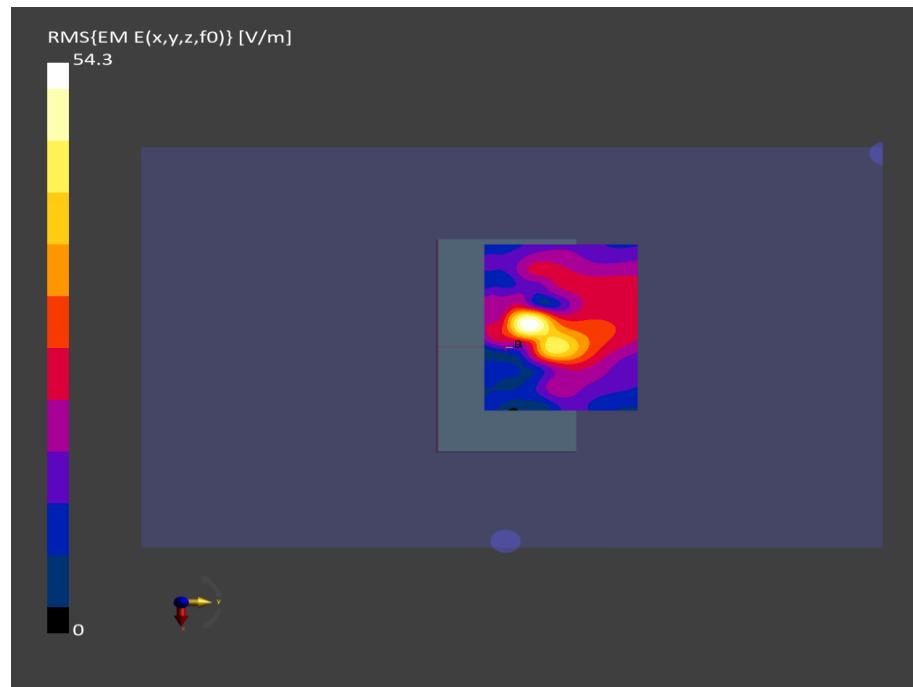


Figure C.20: Testing Results for the MP11000 at 6065 MHz Antenna A