



**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

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Accreditation No.: **SCS 0108**

Client **TÜV SÜD UK**

Certificate No: **5G-Veri10-1053_Oct22**

CALIBRATION CERTIFICATE

Object **5G Verification Source 10 GHz - SN: 1053**

Calibration procedure(s) **QA CAL-45.v3
Calibration procedure for sources in air above 6 GHz**

Calibration date: **October 27, 2022**

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 EUmWV3 DAE4ip	SN: 9374	2021-12-21 (No. EUmWV3-9374_Dec21)	Dec-22
	SN: 1602	2022-06-27 (No. DAE4ip-1602_Jun22)	Jun-23
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

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	

Issued: October 27, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Glossary

CW Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

Methods Applied and Interpretation of Parameters

- *Coordinate System:* z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- *Measurement Conditions:* (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- *Horn Positioning:* The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- *E- field distribution:* E field is measured in two x-y-plane (10mm, 10mm + $\lambda/4$) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- *Field polarization:* Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

- Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification 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	V3.0
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 7.5 mm	
Number of measured planes	2 (10mm, 10mm + $\lambda/4$)	
Frequency	10 GHz $\pm$ 10 MHz	

Calibration Parameters, 10 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	86.1	147	1.27 dB	54.1	50.1	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	86.1	147	1.27 dB	54.2	50.1	1.28 dB

¹ Assessed ohmic and mismatch loss plus numerical offset: 0.55 dB

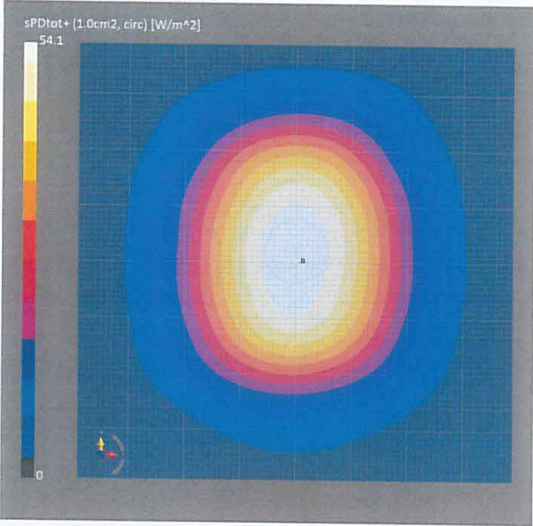


DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties					
Name, Manufacturer		Dimensions [mm]	IMEI	DUT Type	
5G Verification Source 10 GHz		100.0 x 100.0 x 172.0	SN: 1053	-	
Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0
Hardware Setup					
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21		DAE4ip Sn1602, 2022-06-27	

Scan Setup		Measurement Results	
		5G Scan	5G Scan
Grid Extents [mm]	120.0 x 120.0	Date	2022-10-27, 10:18
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [cm²]	1.00
Sensor Surface [mm]	10.0	psPDn+ [W/m²]	54.0
MAIA	MAIA not used	psPDtot+ [W/m²]	54.1
		psPDmod+ [W/m²]	54.2
		E _{max} [V/m]	147
		Power Drift [dB]	0.03





DASY Report

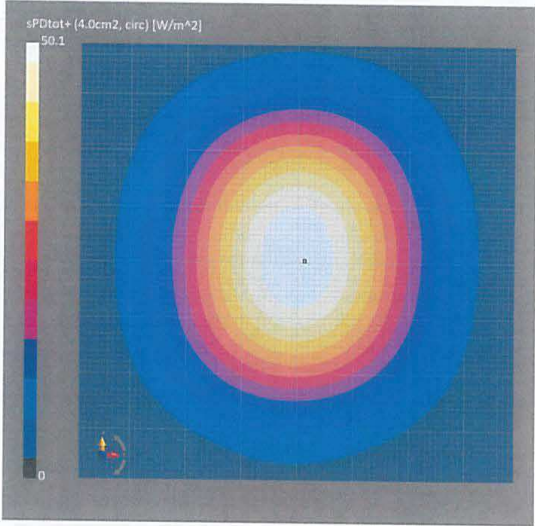
Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties			
Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1053	-

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2022-06-27

Scan Setup		Measurement Results	
Grid Extents [mm]	5G Scan 120.0 x 120.0	Date	5G Scan 2022-10-27, 10:18
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [cm²]	4.00
Sensor Surface [mm]	10.0	psPDn+ [W/m²]	49.9
MAIA	MAIA not used	psPDtot+ [W/m²]	50.1
		psPDmod+ [W/m²]	50.3
		E _{max} [V/m]	147
		Power Drift [dB]	0.03





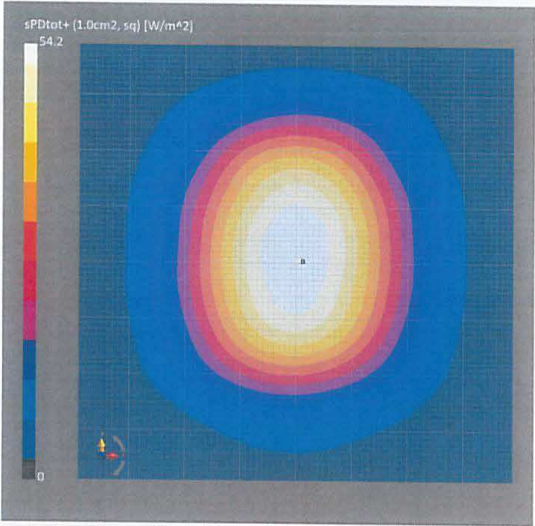
DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties					
Name, Manufacturer		Dimensions [mm]		IMEI	
5G Verification Source 10 GHz		100.0 x 100.0 x 172.0		SN: 1053	
				DUT Type	
				-	
Exposure Conditions					
Phantom Section		Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number
					Conversion Factor
5G -		10.0 mm	Validation band	CW	10000.0, 10000
					1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2022-06-27

Scan Setup		Measurement Results	
		5G Scan	5G Scan
Grid Extents [mm]	120.0 x 120.0	Date	2022-10-27, 10:18
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [cm ²]	1.00
Sensor Surface [mm]	10.0	psPDn+ [W/m ²]	54.1
MAIA	MAIA not used	psPDtot+ [W/m ²]	54.2
		psPDmod+ [W/m ²]	54.4
		E _{max} [V/m]	147
		Power Drift [dB]	0.03





DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1053	-

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

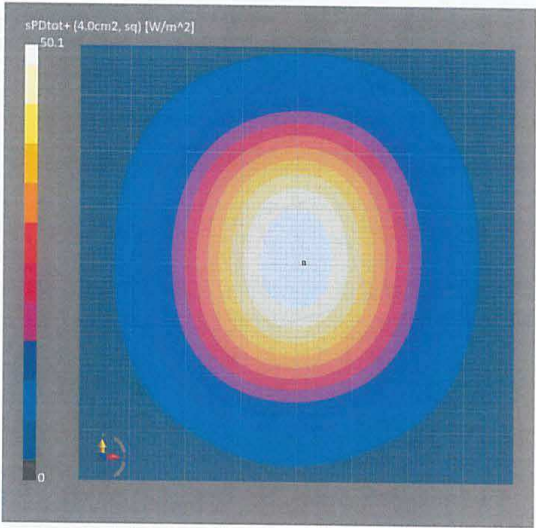
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2022-06-27

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	MAIA not used

Measurement Results

	5G Scan
Date	2022-10-27, 10:18
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	49.9
psPDtot+ [W/m ²]	50.1
psPDmod+ [W/m ²]	50.2
E _{max} [V/m]	147
Power Drift [dB]	0.03





ANNEX C

TEST RESULTS



Measurement Report for A2992, BOTTOM, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 39 (2441.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.76	1.81	39.5

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 21.00deg.C 2023-Aug-16 SYS1 B1.prn, 2023-Aug-16	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2023-08-17, 17:18	2023-08-17, 17:27
psSAR1g [W/Kg]	0.260	0.268
psSAR10g [W/Kg]	0.127	0.119
Power Drift [dB]	-0.04	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.4
Dist 3dB Peak [mm]		8.3

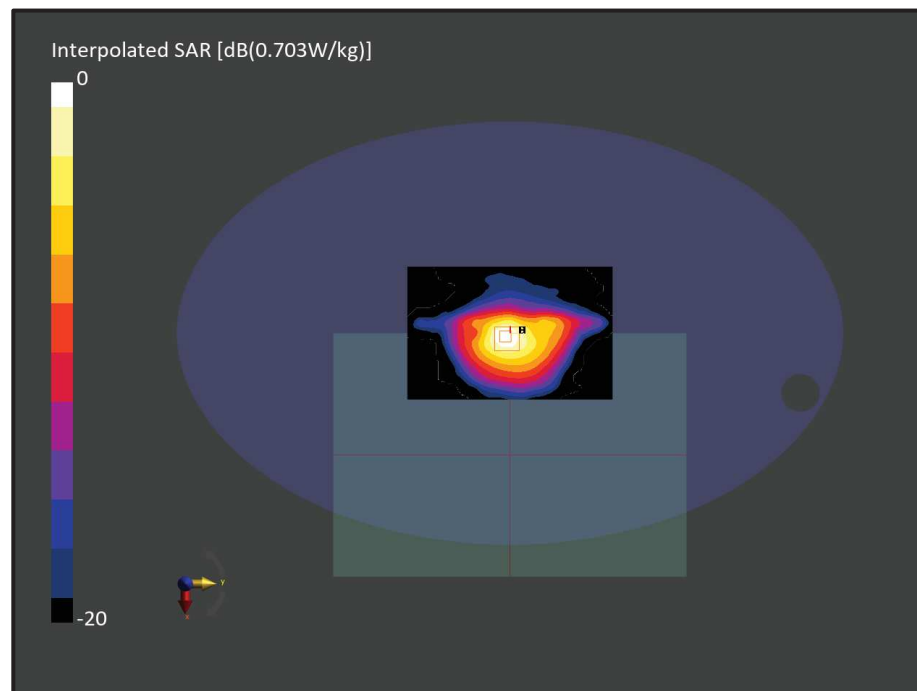


Figure C.1: SAR Testing Results for the A2992 at 2441.0 MHz



Measurement Report for A2992, BOTTOM, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 78 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.76	1.84	39.5

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 21.00deg.C 2023-Aug-16 SYS1 B1.prn, 2023-Aug-16	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	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	2023-08-17, 19:24	2023-08-17, 19:33
psSAR1g [W/Kg]	0.169	0.166
psSAR10g [W/Kg]	0.081	0.076
Power Drift [dB]	-0.10	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.9
Dist 3dB Peak [mm]		9.0

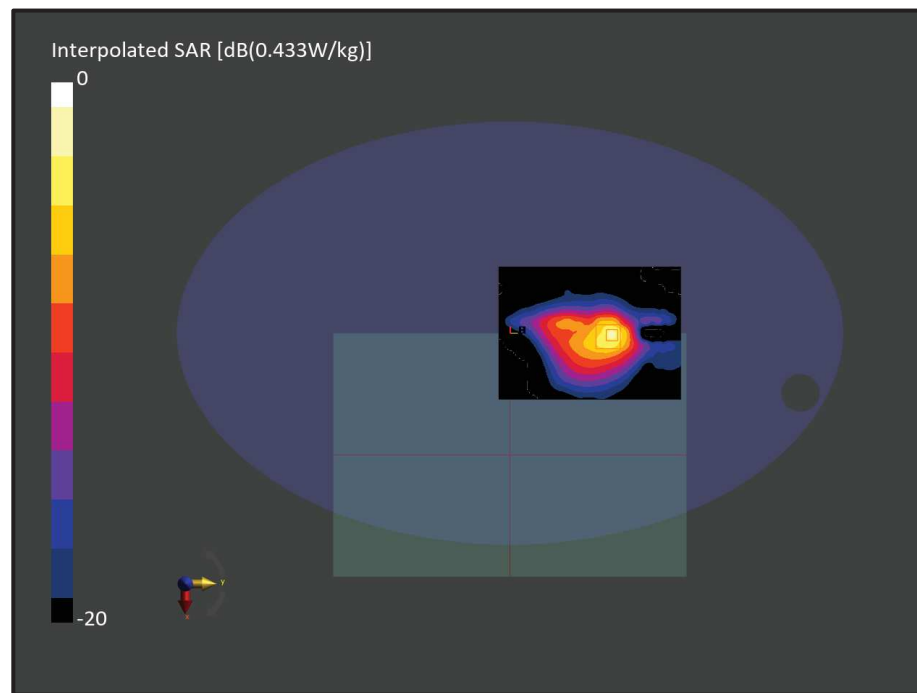


Figure C.2: SAR Testing Results for the A2992 at 2480.0 MHz



Measurement Report for A2992, BOTTOM, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 39 (2441.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.76	1.81	39.5

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 21.00deg.C 2023-Aug-16 SYS1 B1.prn, 2023-Aug-16	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	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	2023-08-17, 20:27	2023-08-17, 20:36
psSAR1g [W/Kg]	0.098	0.098
psSAR10g [W/Kg]	0.048	0.045
Power Drift [dB]	-0.06	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.3
Dist 3dB Peak [mm]		8.5

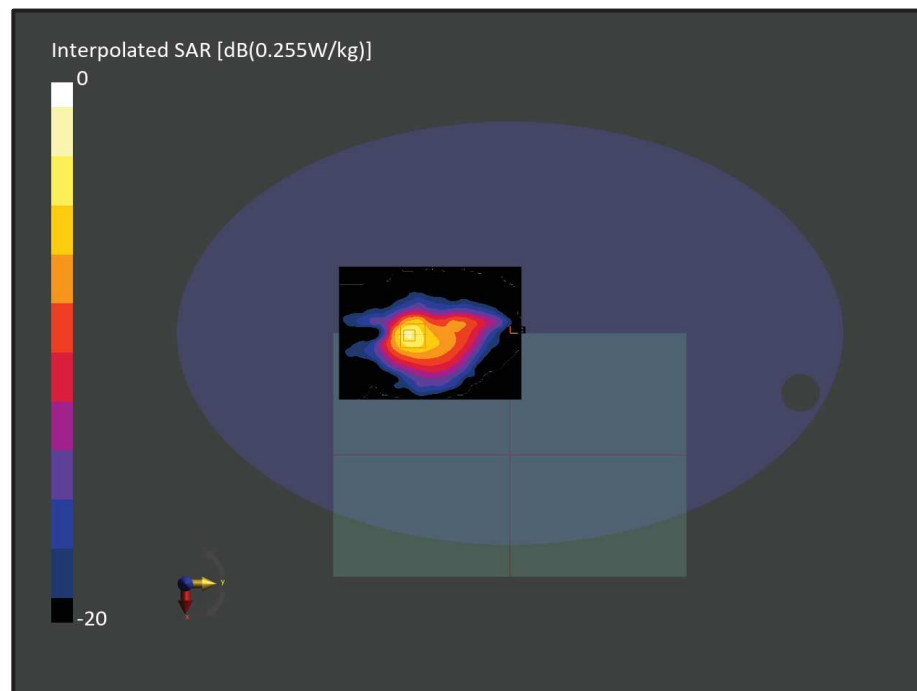


Figure C.3: SAR Testing Results for the A2992 at 2441.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 5250000 (5250.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5250.0, 5250000	5.75	4.72	36.1

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-23, 19:58	2023-08-23, 20:11
psSAR1g [W/Kg]	0.352	0.419
psSAR10g [W/Kg]	0.130	0.136
Power Drift [dB]	-0.08	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		59.5
Dist 3dB Peak [mm]		7.2

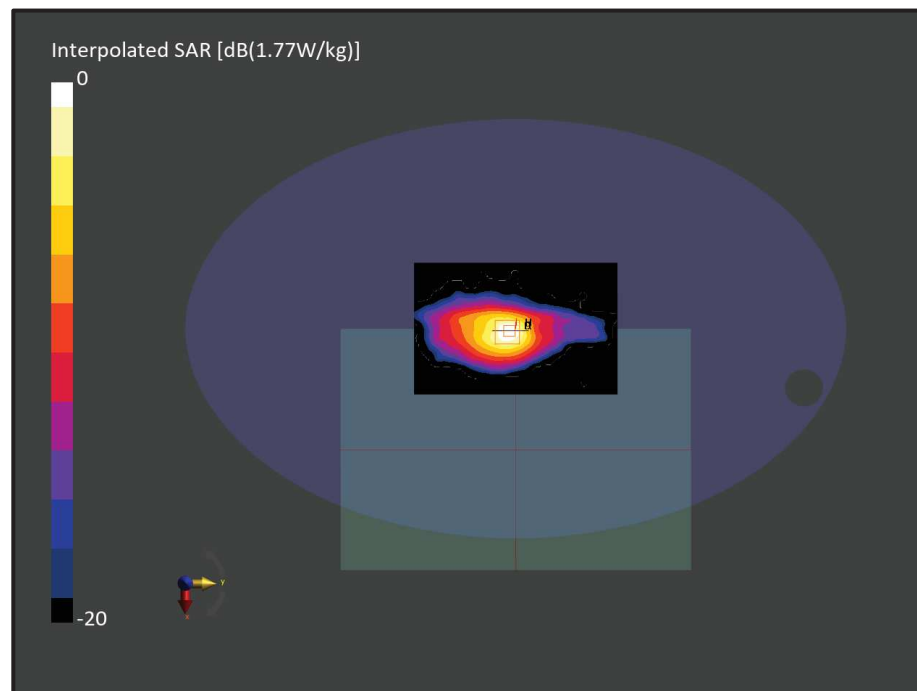


Figure C.4: SAR Testing Results for the A2992 at 5250.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 5250000 (5250.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5250.0, 5250000	5.75	4.72	36.1

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-23, 22:58	2023-08-23, 23:08
psSAR1g [W/Kg]	0.648	0.647
psSAR10g [W/Kg]	0.231	0.218
Power Drift [dB]	-0.06	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		62.0
Dist 3dB Peak [mm]		8.0

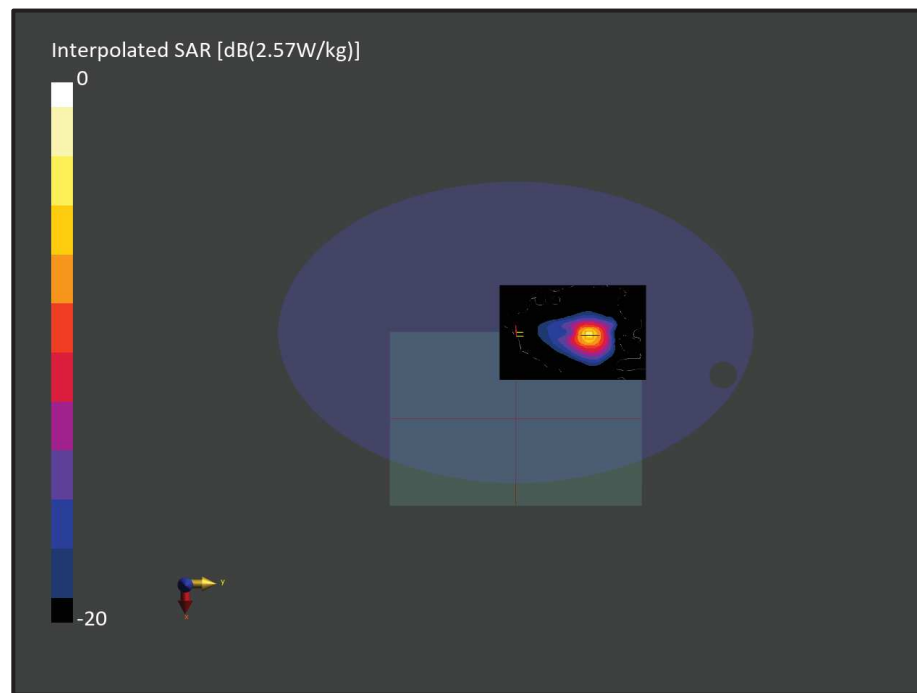


Figure C.5: SAR Testing Results for the A2992 at 5250.0 MHz



Measurement Report for A2992, Bottom, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5850.0, 5850000	5.12	5.40	35.0

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-24, 02:16	2023-08-24, 02:26
psSAR1g [W/Kg]	0.596	0.659
psSAR10g [W/Kg]	0.199	0.212
Power Drift [dB]	-0.04	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		7.3

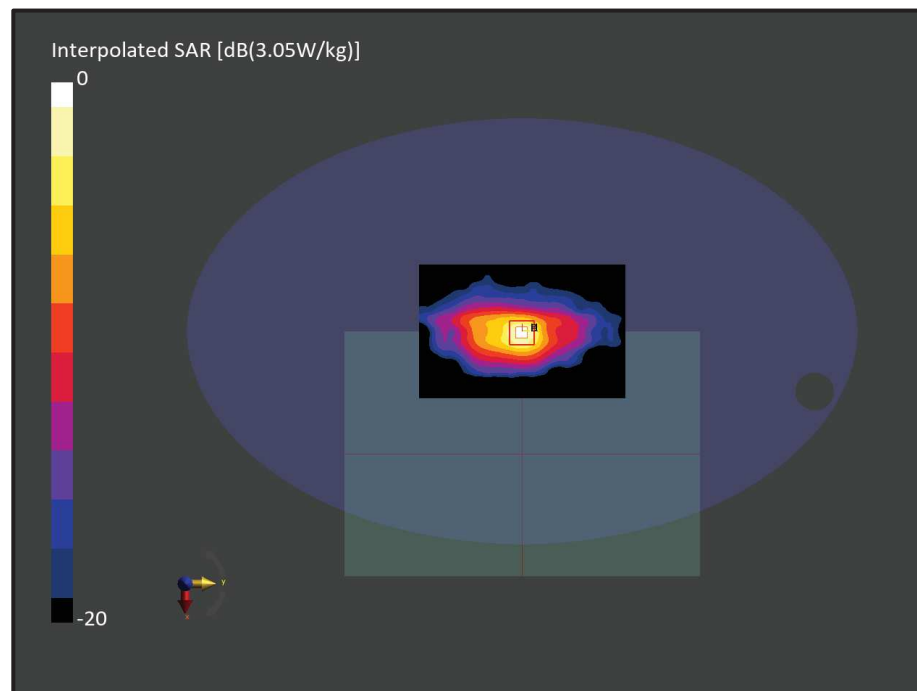


Figure C.6: SAR Testing Results for the A2992 at 5850.0 MHz



Measurement Report for A2992, Bottom, Custom Band, CW, Channel 5725000 (5725.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5725.0, 5725000	5.12	5.26	35.3

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-24, 02:54	2023-08-24, 03:05
psSAR1g [W/Kg]	0.782	0.812
psSAR10g [W/Kg]	0.285	0.279
Power Drift [dB]	0.05	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		8.2

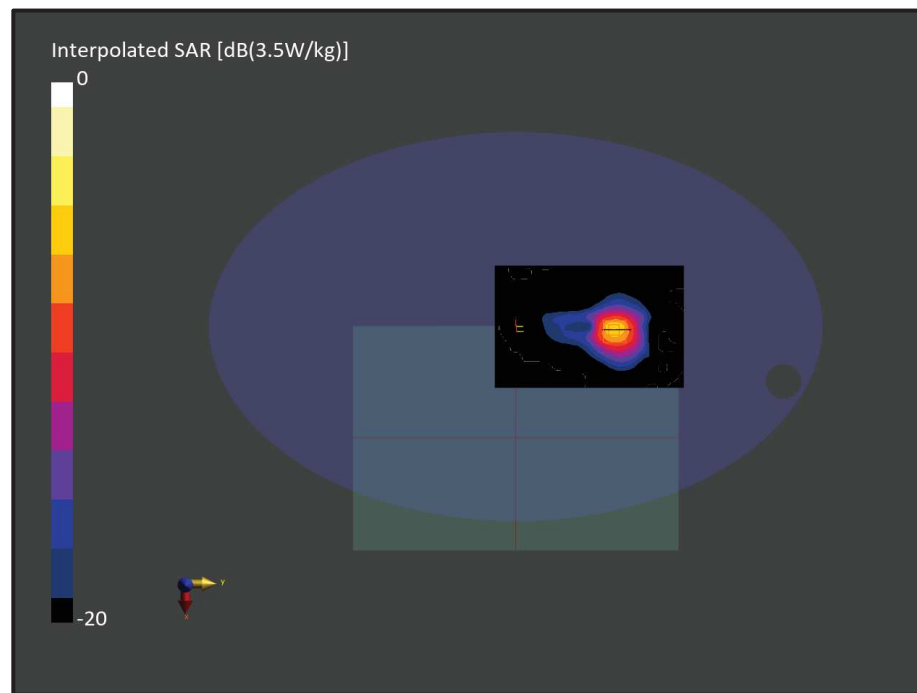


Figure C.7: SAR Testing Results for the A2992 at 5725.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 5250000 (5250.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5250.0, 5250000	5.75	4.72	36.1

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-24, 10:00	2023-08-24, 10:13
psSAR1g [W/Kg]	0.228	0.259
psSAR10g [W/Kg]	0.087	0.083
Power Drift [dB]	0.02	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		7.4

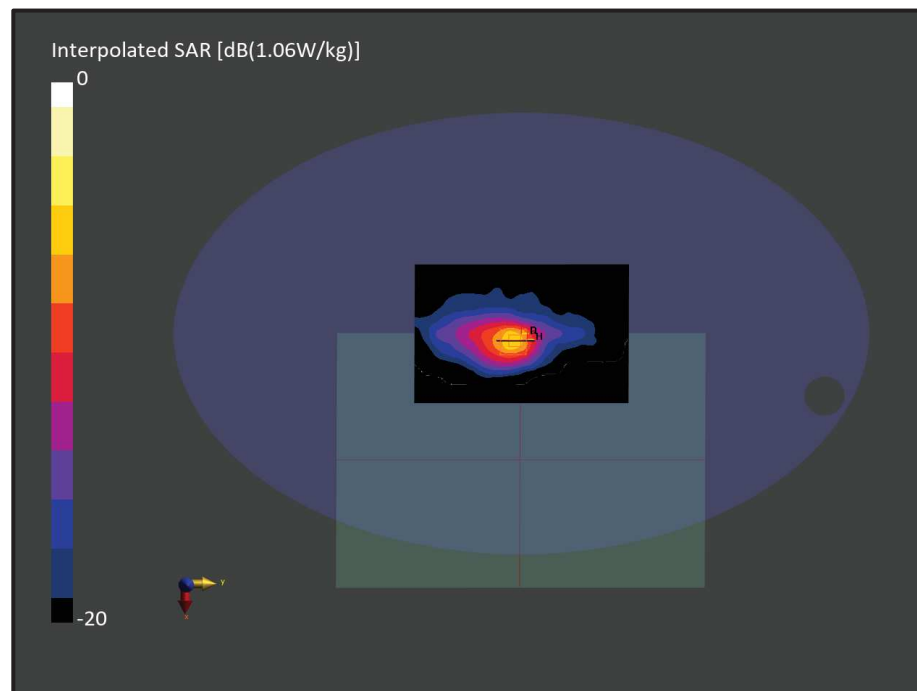


Figure C.8: SAR Testing Results for the A2992 at 5250.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 5250000 (5250.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5250.0, 5250000	5.75	4.72	36.1

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-24, 11:42	2023-08-24, 11:55
psSAR1g [W/Kg]	0.273	0.284
psSAR10g [W/Kg]	0.099	0.097
Power Drift [dB]	-0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		63.0
Dist 3dB Peak [mm]		8.0

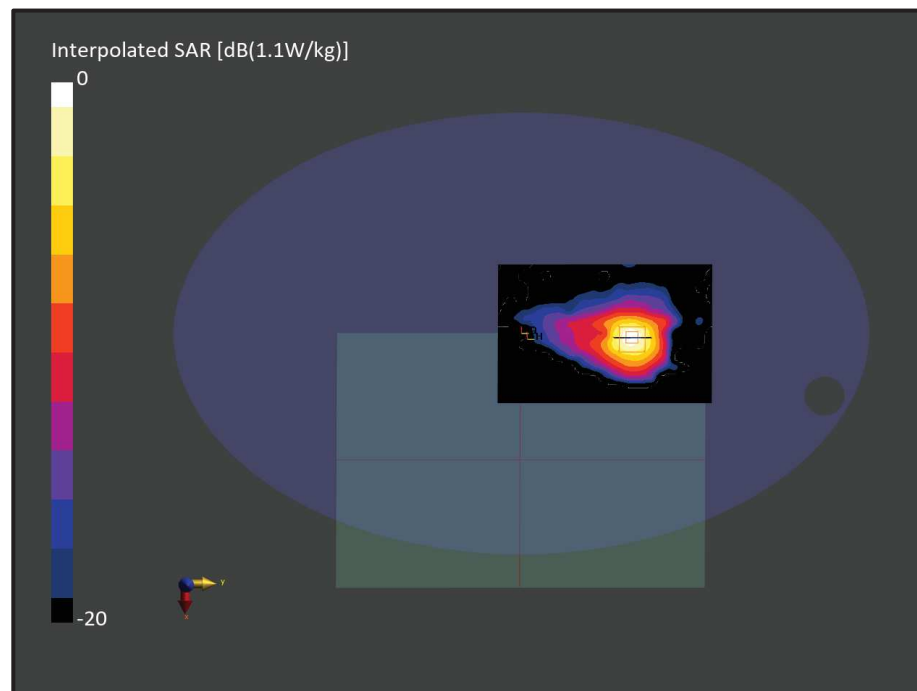


Figure C.9: SAR Testing Results for the A2992 at 5250.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5850.0, 5850000	5.12	5.40	35.0

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-24, 13:40	2023-08-24, 14:03
psSAR1g [W/Kg]	0.405	0.472
psSAR10g [W/Kg]	0.143	0.153
Power Drift [dB]	-0.14	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		7.2

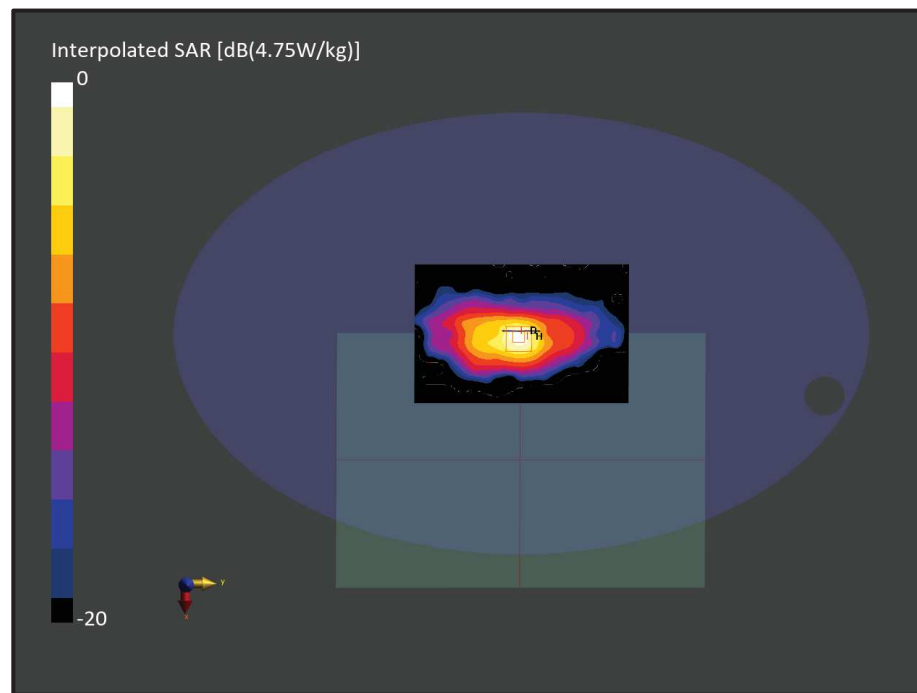


Figure C.10: SAR Testing Results for the A2992 at 5850.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 5725000 (5725.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	5725.0, 5725000	5.12	5.26	35.3

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 20.70 deg.C 2023-Aug-23 SYS1 B1.prn, 2023-Aug-23	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-24, 15:19	2023-08-24, 15:27
psSAR1g [W/Kg]	0.288	0.298
psSAR10g [W/Kg]	0.101	0.101
Power Drift [dB]	-0.31	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		8.7

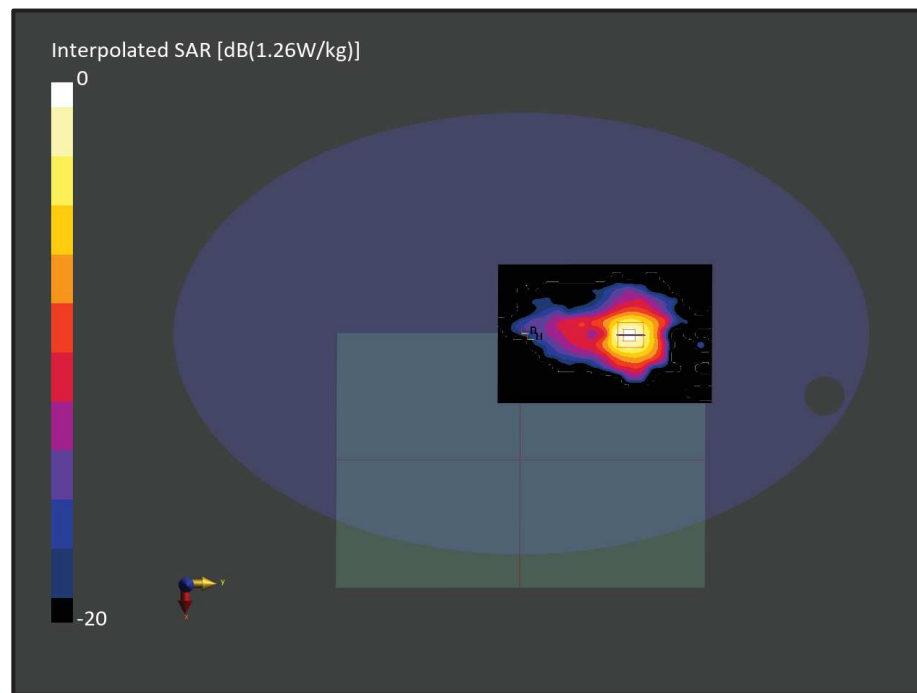


Figure C.11: SAR Testing Results for the A2992 at 5725.0 MHz



Bluetooth 2450 MHz

Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	2480.0, 2480000	7.76	1.92	42.1

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 2Head 19.00deg.C 2023-Aug-18(2) SYS1 B1.prn, 2023-Aug-18	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	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	2023-08-18, 19:34	2023-08-18, 19:43
psSAR1g [W/Kg]	0.517	0.552
psSAR10g [W/Kg]	0.251	0.243
Power Drift [dB]	0.01	-0.02
Power Scaling	Enabled	Enabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		70.5
Dist 3dB Peak [mm]		7.7

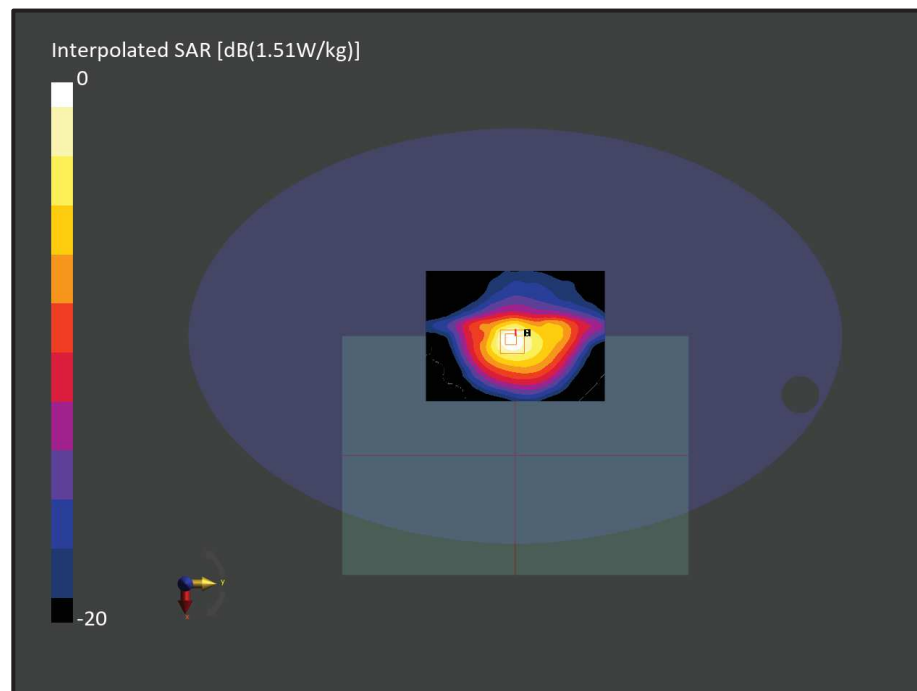


Figure C.12: SAR Testing Results for the A2992 at 2480.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	2480.0, 2480000	7.76	1.92	42.1

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 2Head 19.00deg.C 2023-Aug-18(2) SYS1 B1.prn, 2023-Aug-18	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	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	2023-08-18, 20:44	2023-08-18, 20:53
psSAR1g [W/Kg]	0.462	0.457
psSAR10g [W/Kg]	0.221	0.206
Power Drift [dB]	-0.02	-0.02
Power Scaling	Enabled	Enabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.2
Dist 3dB Peak [mm]		8.6

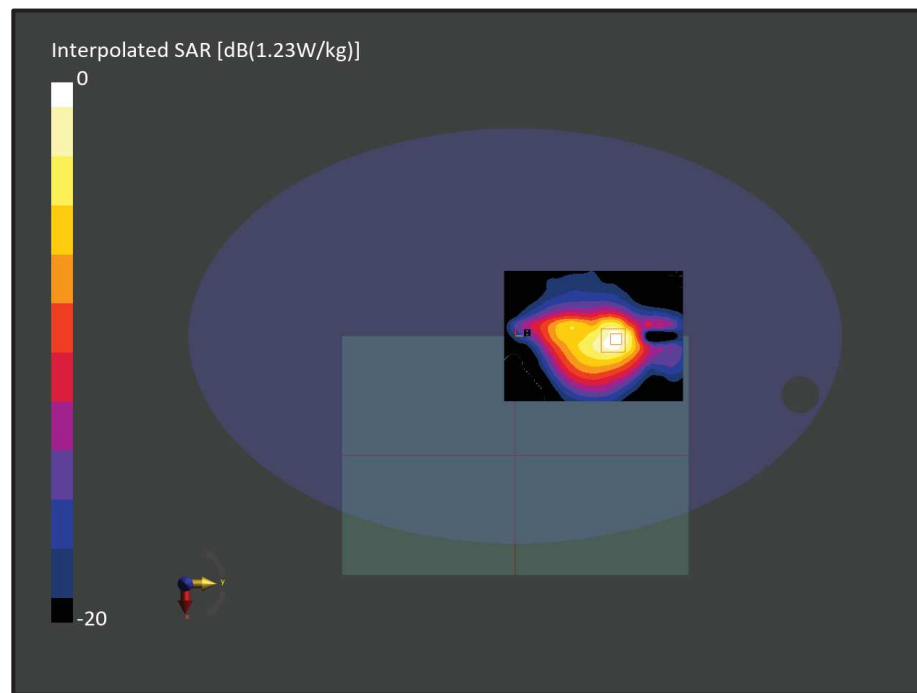


Figure C.13: SAR Testing Results for the A2992 at 2480.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	2480.0, 2480000	7.76	1.92	42.1

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 2Head 19.00deg.C 2023-Aug-18(2) SYS1 B1.prn, 2023-Aug-18	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2023-08-20, 08:23	2023-08-20, 08:33
psSAR1g [W/Kg]	0.083	0.077
psSAR10g [W/Kg]	0.042	0.035
Power Drift [dB]	-0.07	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		70.4
Dist 3dB Peak [mm]		8.5

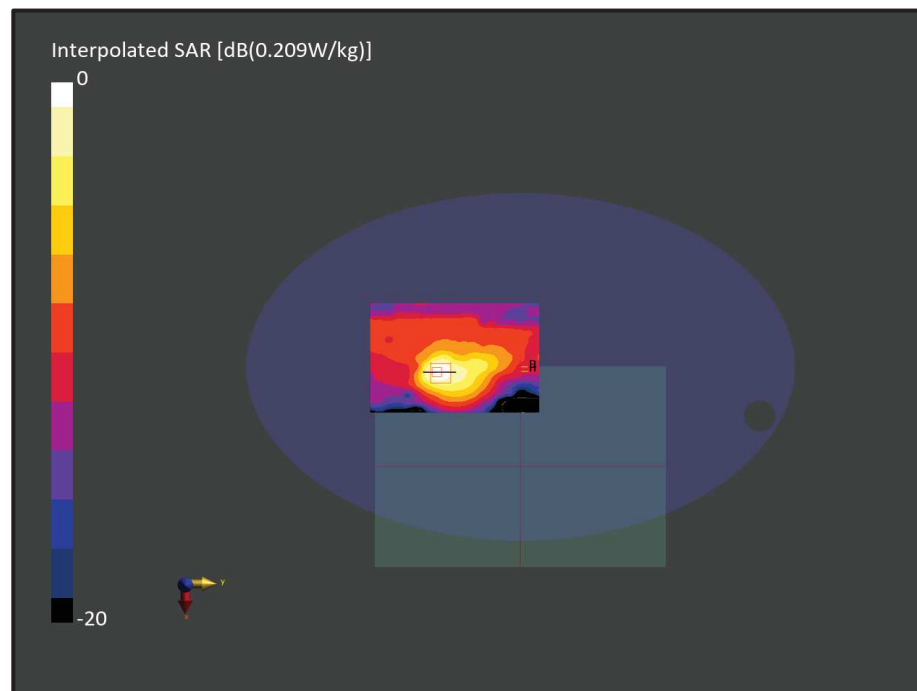


Figure C.14: SAR Testing Results for the A2992 at 2480.0 MHz



Measurement Report for A2992, BOTTOM, Custom Band, CW, Channel 2440000 (2440.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	2440.0, 2440000	7.76	1.88	42.2

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 2Head 19.00deg.C 2023-Aug-18(2) SYS1 B1.prn, 2023-Aug-18	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2023-08-20, 01:46	2023-08-20, 01:55
psSAR1g [W/Kg]	0.283	0.291
psSAR10g [W/Kg]	0.134	0.130
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		70.4
Dist 3dB Peak [mm]		8.1

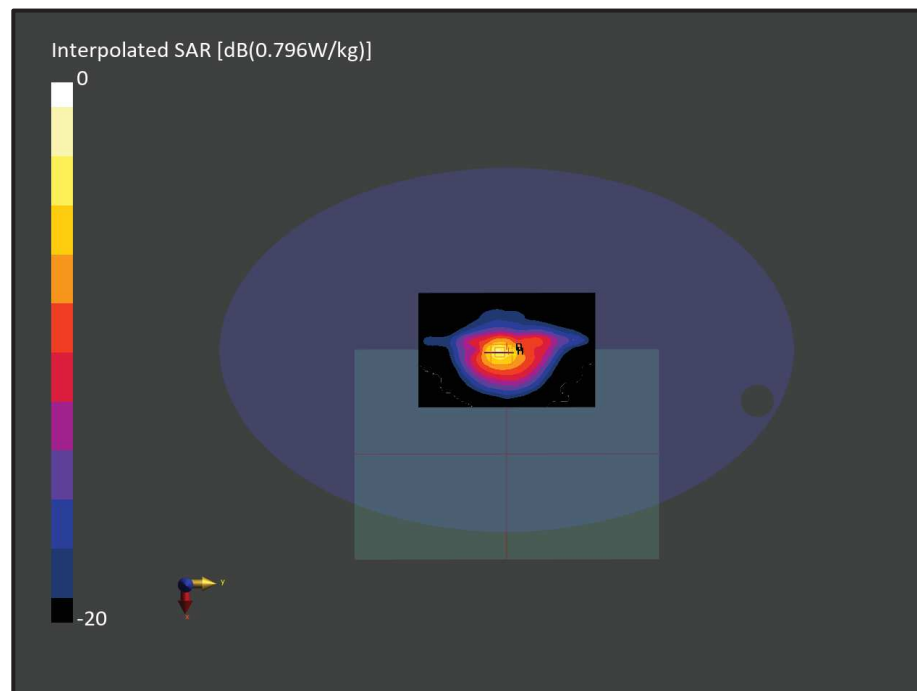


Figure C.15: SAR Testing Results for the A2992 at 2440.0 MHz



Measurement Report for A2992, BACK, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	Custom Band	CW, 0--	2480.0, 2480000	7.76	1.92	42.1

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 2Head 19.00deg.C 2023-Aug-18(2) SYS1 B1.prn, 2023-Aug-18	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2023-08-20, 02:47	2023-08-20, 02:56
psSAR1g [W/Kg]	0.173	0.174
psSAR10g [W/Kg]	0.085	0.078
Power Drift [dB]	0.01	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		70.4
Dist 3dB Peak [mm]		8.5

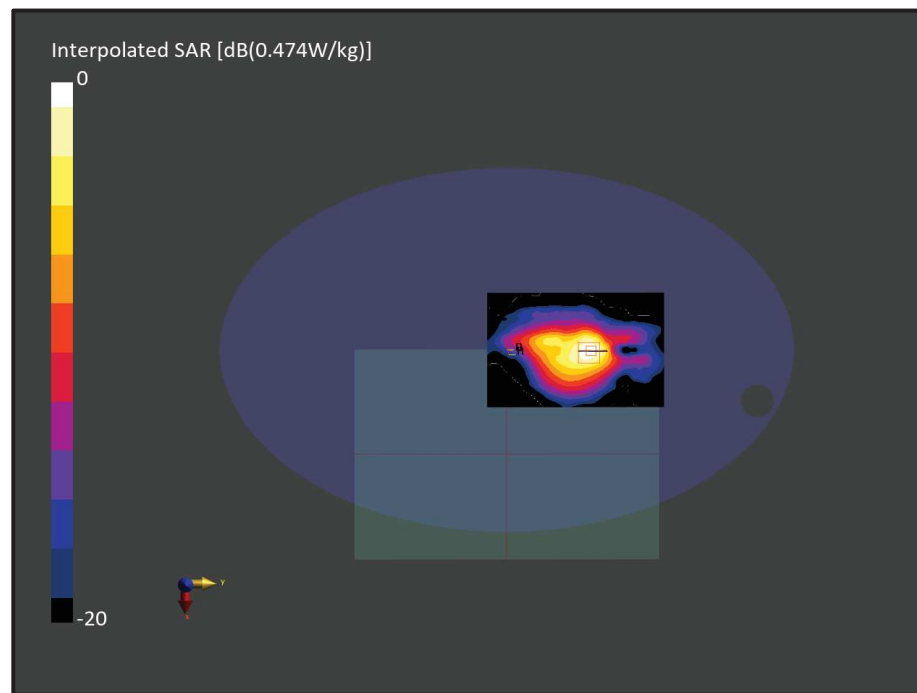


Figure C.16: SAR Testing Results for the A2992 at 2480.0 MHz

**WLAN 2450 MHz****Measurement Report for A2992, BOTTOM, WLAN 2.4 GHz, IEEE 802.11g WLAN 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle), Channel 10 (2457.0 MHz)****Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 2.4 GHz	WLAN, 10416-AAA	2457.0, 10	7.76	1.84	41.2

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2023-08-30, 11:35	2023-08-30, 11:43
psSAR1g [W/Kg]	0.595	0.629
psSAR10g [W/Kg]	0.296	0.286
Power Drift [dB]	-0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.5
Dist 3dB Peak [mm]		9.0

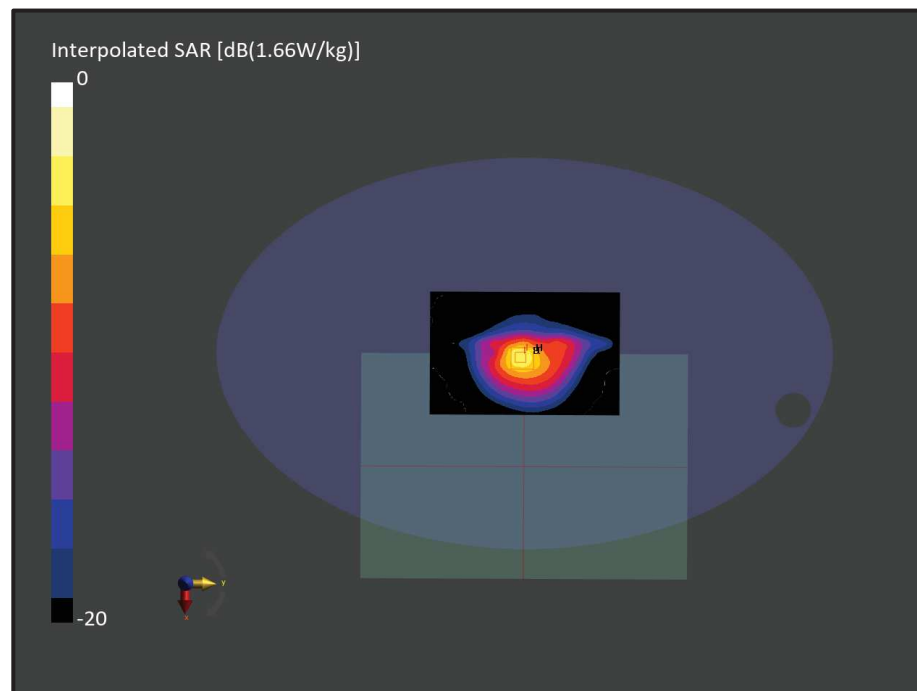


Figure C.17: SAR Testing Results for the A2992 at 2457.0 MHz



Measurement Report for A2992, BOTTOM, WLAN 2.4 GHz, IEEE 802.11g WLAN 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle), Channel 10 (2457.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 2.4 GHz	WLAN, 10416-AAA	2457.0, 10	7.76	1.84	41.2

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2023-08-30, 12:05	2023-08-30, 12:14
psSAR1g [W/Kg]	0.497	0.489
psSAR10g [W/Kg]	0.241	0.225
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.4
Dist 3dB Peak [mm]		8.6

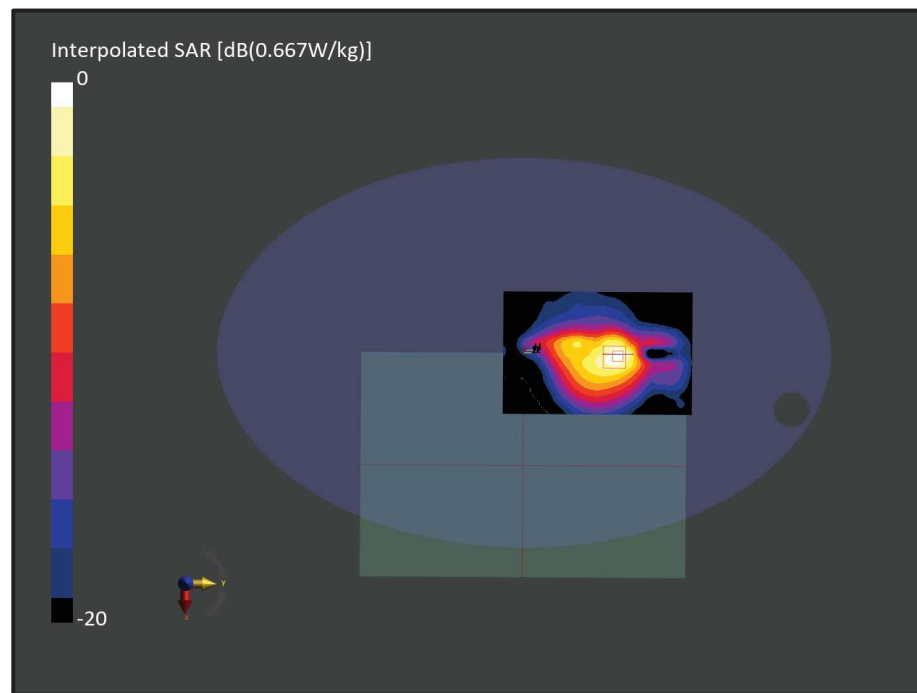


Figure C.18: SAR Testing Results for the A2992 at 2457.0 MHz



Measurement Report for A2992, Bottom, WLAN 2.4 GHz, IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK), Channel 10 (2457.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 2.4 GHz	WLAN, 10193-CAD	, 10	7.76	1.84	41.2

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

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	Yes	Yes	Yes
Grading Ratio	1.5	1.5	1.5
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	2023-08-29, 20:42	2023-08-29, 20:51	2023-08-29, 21:00
psSAR1g [W/Kg]	0.649	0.688	0.485
psSAR10g [W/Kg]	0.318	0.308	0.223
Power Drift [dB]	-0.00	-0.02	-0.02
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	No correction	No correction	No correction
M2/M1 [%]		71.3	72.0
Dist 3dB Peak [mm]		8.2	8.5

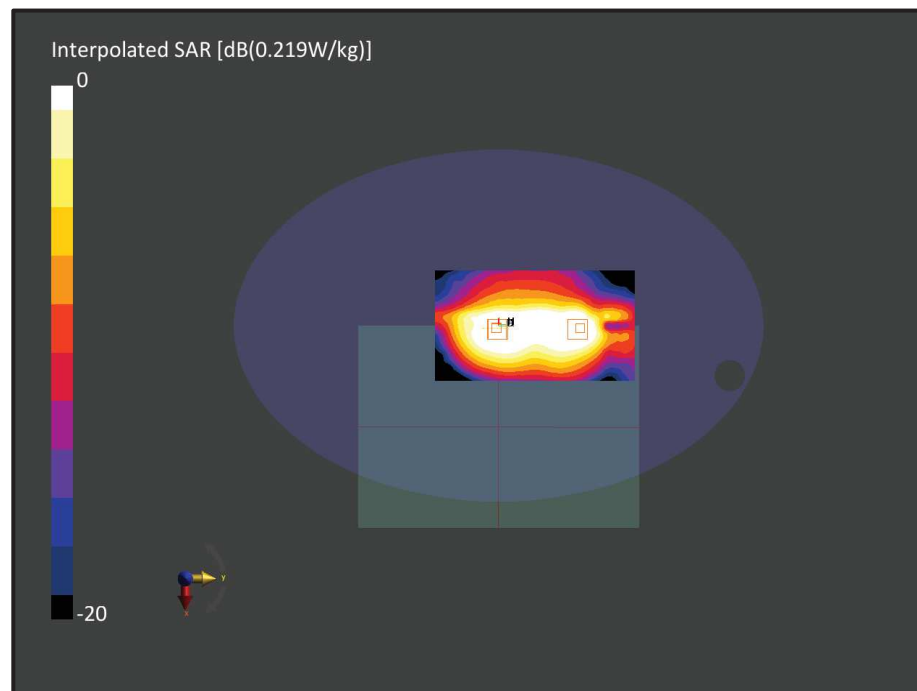


Figure C.19: SAR Testing Results for the A2992 at 2457.0 MHz



Measurement Report for A2992, Bottom, U-NII-1, U-NII-2A, IEEE 802.11ac WLAN (80 MHz, MCS0, 99pc duty cycle), Channel 58 (5290.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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-1, U-NII-2A	WLAN, 10544-AAC	5290.0, 58	5.58	4.61	36.4

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-30, 17:07	2023-08-30, 17:17
psSAR1g [W/Kg]	0.482	0.572
psSAR10g [W/Kg]	0.180	0.186
Power Drift [dB]	-0.00	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		7.9

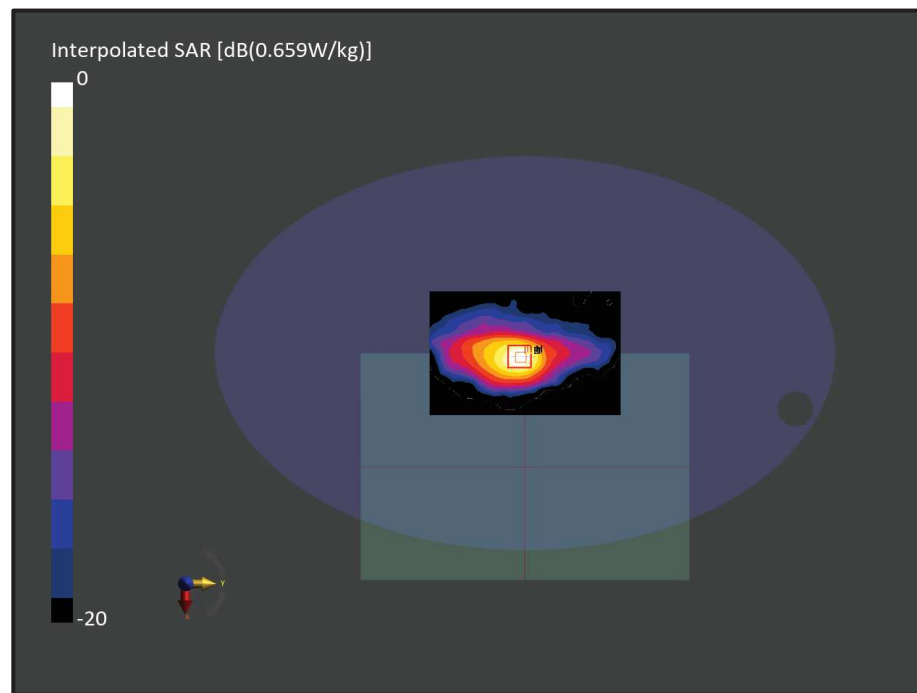


Figure C.20: SAR Testing Results for the A2992 at 5290.0 MHz



Measurement Report for A2992, Bottom, U-NII-1, U-NII-2A, IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle), Channel 42 (5210.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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-1, U-NII-2A	WLAN, 10731-AAC	5210.0, 42	5.75	4.52	36.5

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-30, 17:37	2023-08-30, 17:47
psSAR1g [W/Kg]	0.642	0.673
psSAR10g [W/Kg]	0.233	0.228
Power Drift [dB]	0.03	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		8.0

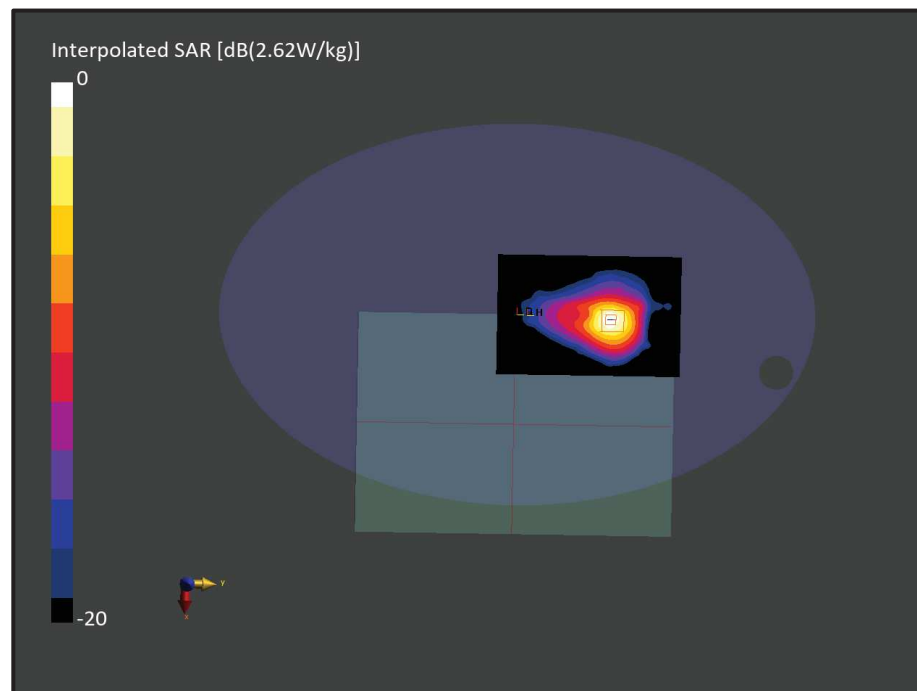


Figure C.21: SAR Testing Results for the A2992 at 5210.0 MHz



Measurement Report for A2992, Bottom, U-NII-1, U-NII-2A, IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle), Channel 42 (5210.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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-1, U-NII-2A	WLAN, 10731-AAC	, 42	5.75	4.61	36.4

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

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	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-01, 18:29	2023-09-01, 18:42	2023-09-01, 18:55
psSAR1g [W/Kg]	0.764	0.764	0.703
psSAR10g [W/Kg]	0.270	0.262	0.234
Power Drift [dB]	0.02	0.01	0.05
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		63.0	60.6
Dist 3dB Peak [mm]		8.0	7.2

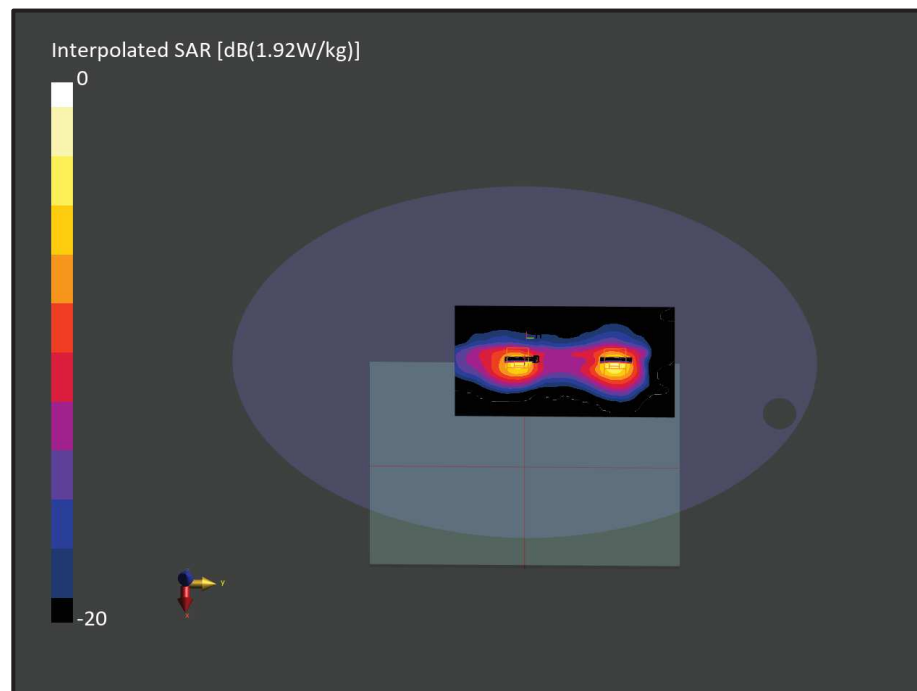


Figure C.22: SAR Testing Results for the A2992 at 5210.0 MHz



Measurement Report for A2992, Bottom, U-NII-2C < 5.65.0 GHz, IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle), Channel 106 (5530.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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-2C < 5.65.0 GHz	WLAN, 10731-AAC	5530.0, 106	5.2	4.88	36.0

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-08-30, 22:20	2023-08-30, 22:29
psSAR1g [W/Kg]	0.607	0.719
psSAR10g [W/Kg]	0.222	0.233
Power Drift [dB]	0.07	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		7.6

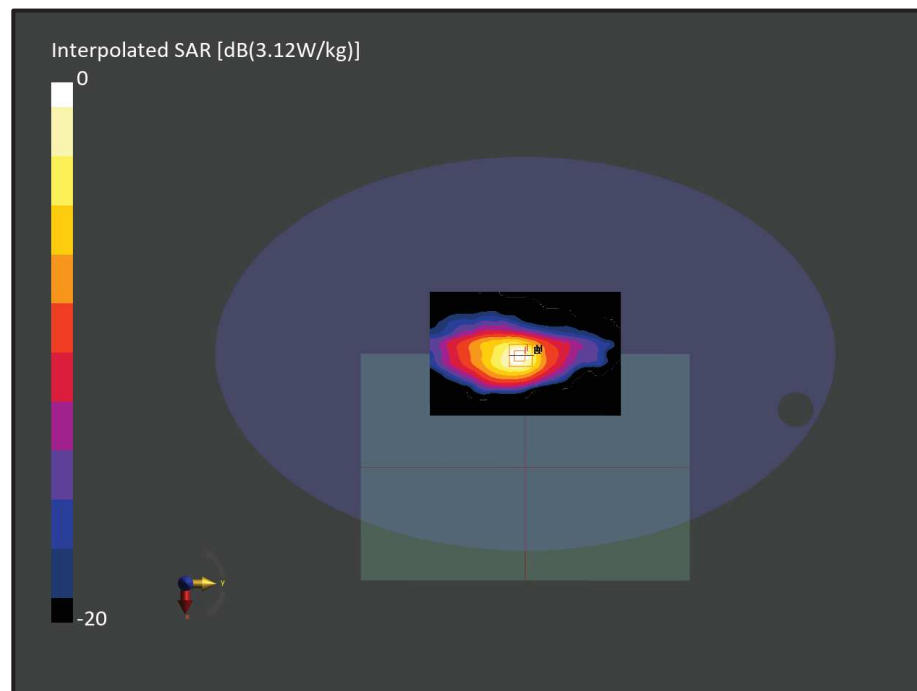


Figure C.23: SAR Testing Results for the A2992 at 5530.0 MHz



Measurement Report for A2992, Bottom, WLAN 5.0 GHz, IEEE 802.11ac WLAN (160 MHz, MCS0, 99pc duty cycle), Channel 114 (5570.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 5.0 GHz	WLAN, 10554-AAD	5570.0, 114	5.1	4.92	35.9

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 21.40deg.C 2023-Aug-29 SYS1 B1, 2023-Aug-29	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-31, 07:31	2023-08-31, 07:50
psSAR1g [W/Kg]	0.557	0.601
psSAR10g [W/Kg]	0.203	0.202
Power Drift [dB]	0.13	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		8.4

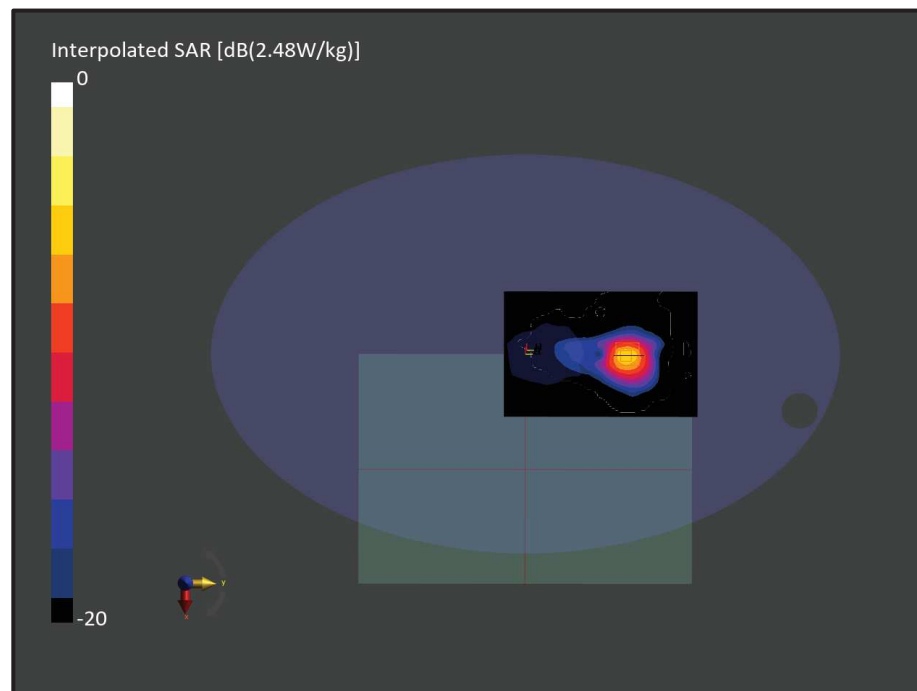


Figure C.24: SAR Testing Results for the A2992 at 5570.0 MHz



Measurement Report for A2992, BOTTOM, WLAN 5.0 GHz, IEEE 802.11ac WLAN (80 MHz, MCS0, 99pc duty cycle), Channel 106 (5530.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 5.0 GHz	WLAN, 10544-AAC	, 106	5.2	4.98	35.8

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

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	2023-08-31, 17:35	2023-08-31, 17:49	2023-08-31, 18:02
psSAR1g [W/Kg]	0.521	0.541	0.391
psSAR10g [W/Kg]	0.188	0.191	0.132
Power Drift [dB]	0.03	0.12	0.15
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		61.0	59.3
Dist 3dB Peak [mm]		8.8	8.4

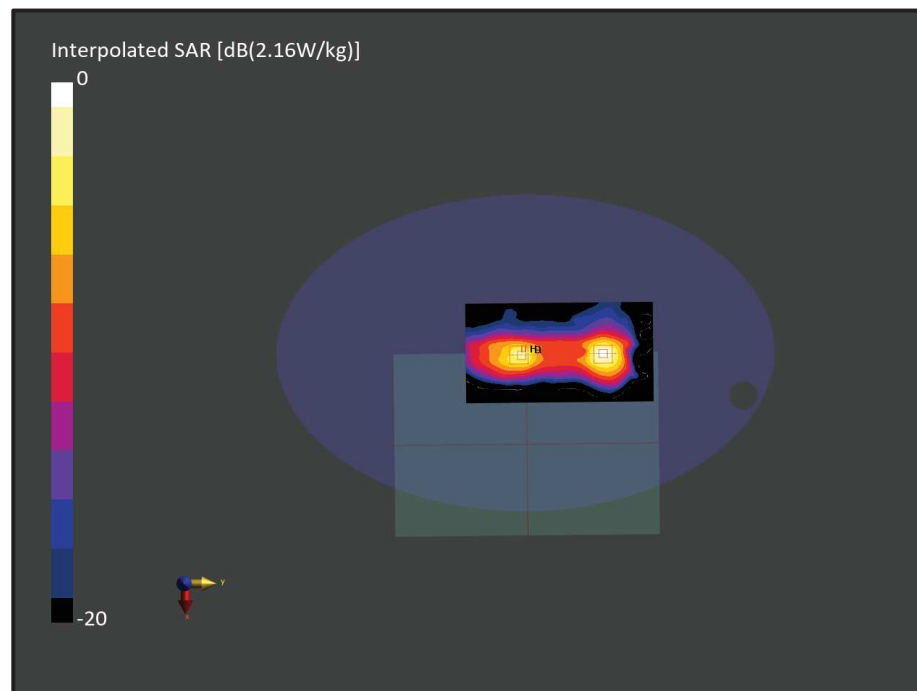


Figure C.25: SAR Testing Results for the A2992 at 5530.0 MHz



Measurement Report for A2992, BOTTOM, WLAN 5.0 GHz, IEEE 802.11ac WLAN (80 MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 5.0 GHz	WLAN, 10544-AAC	5775.0, 155	5.12	5.27	35.3

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-09-01, 10:22	2023-09-01, 10:35
psSAR1g [W/Kg]	0.508	0.588
psSAR10g [W/Kg]	0.176	0.190
Power Drift [dB]	-0.06	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		56.3
Dist 3dB Peak [mm]		7.4

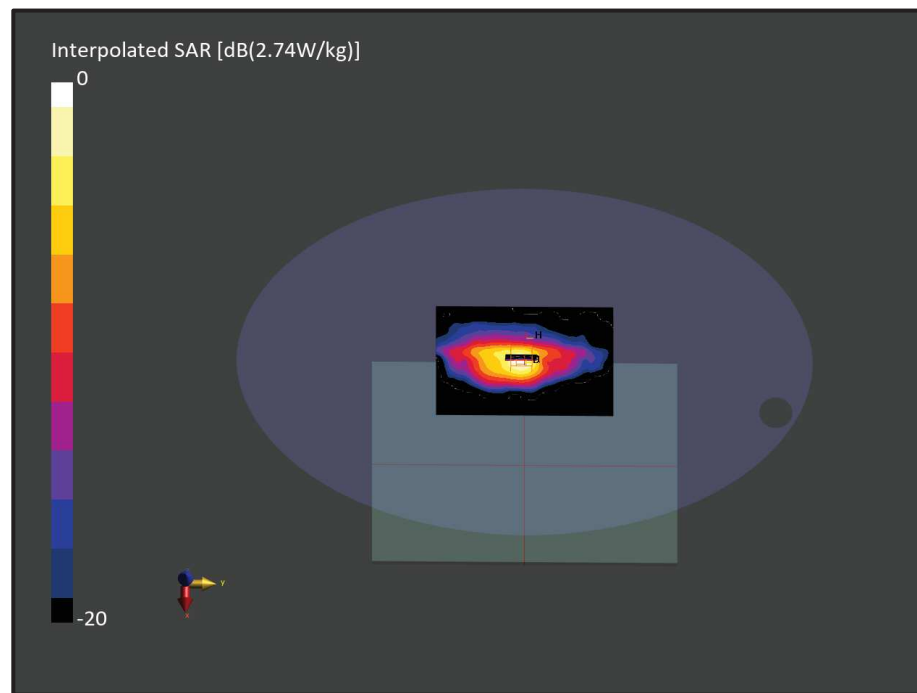


Figure C.26: SAR Testing Results for the A2992 at 5775.0 MHz



Measurement Report for A2992, BOTTOM, WLAN 5.0 GHz, IEEE 802.11ac WLAN (80 MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 5.0 GHz	WLAN, 10544-AAC	5775.0, 155	5.12	5.27	35.3

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2023-09-01, 11:01	2023-09-01, 11:14
psSAR1g [W/Kg]	0.566	0.595
psSAR10g [W/Kg]	0.200	0.206
Power Drift [dB]	-0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		8.1

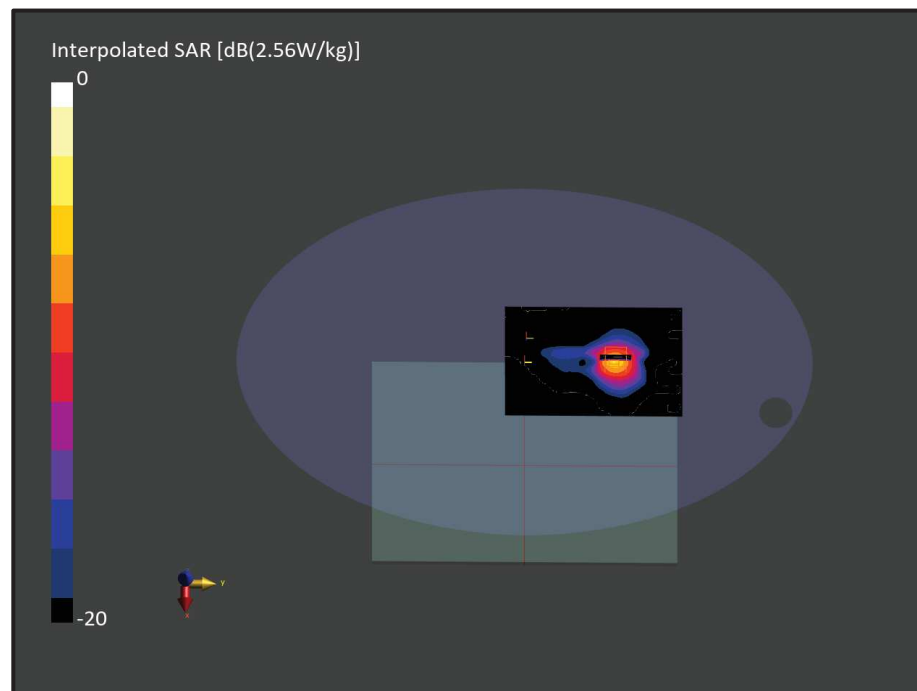


Figure C.27: SAR Testing Results for the A2992 at 5775.0 MHz



Measurement Report for A2992, BOTTOM, WLAN 5.0 GHz, IEEE 802.11ac WLAN (80 MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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	WLAN 5.0 GHz	WLAN, 10544-AAC	, 155	5.12	5.27	35.3

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

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	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-01, 12:29	2023-09-01, 12:42	2023-09-01, 12:50
psSAR1g [W/Kg]	0.639	0.667	0.532
psSAR10g [W/Kg]	0.228	0.234	0.176
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 [%]		58.1	57.1
Dist 3dB Peak [mm]		8.4	7.9

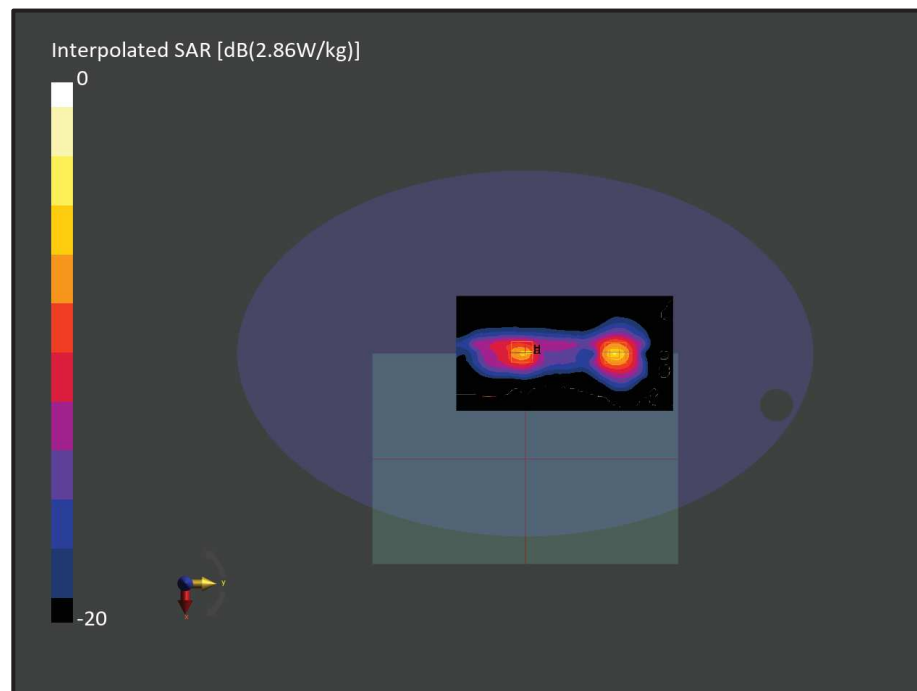


Figure C.28: SAR Testing Results for the A2992 at 5775.0 MHz



Measurement Report for A2992, Bottom, U-NII-5, IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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, 10755-AAC	6185.0, 47	5.5	5.76	34.6

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 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	2023-09-01, 20:39	2023-09-01, 20:54
psSAR1g [W/Kg]	0.324	0.399
psSAR8g [W/Kg]		0.147
psSAR10g [W/Kg]	0.115	0.129
Power Drift [dB]	0.06	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		7.5

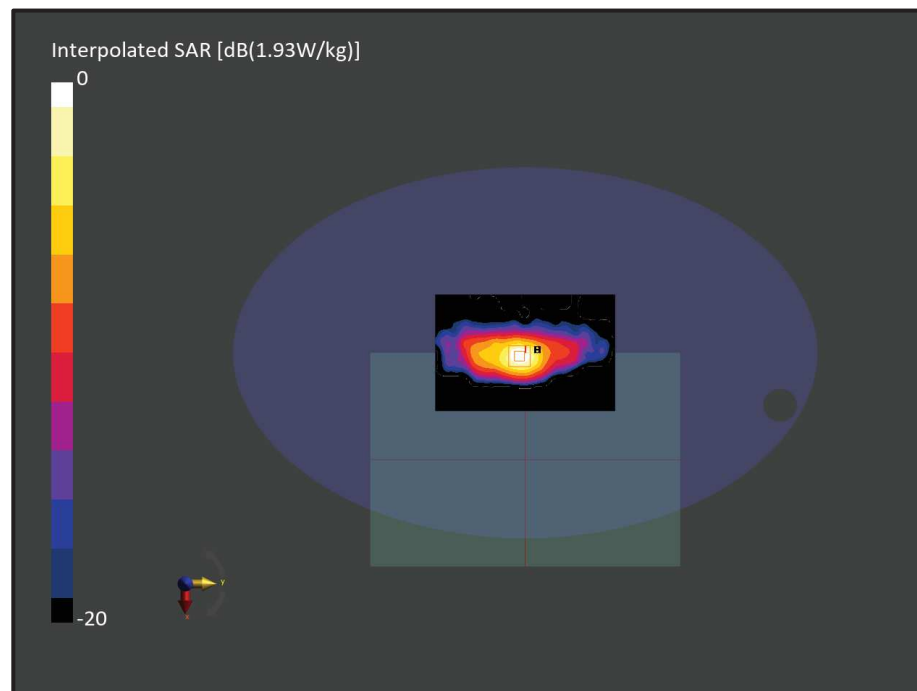


Figure C.29: SAR and APD Testing Results for the A2992 at 6185.0 MHz



Measurement Report for A2992, Bottom, U-NII-5, IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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, 10755-AAC	6185.0, 47	5.5	5.76	34.6

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 20.90 deg.C 2023-Aug-31 SYS1 B1.prn, 2023-Aug-31	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 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	2023-09-02, 03:43	2023-09-02, 03:54
psSAR1g [W/Kg]	0.406	0.427
psSAR8g [W/Kg]		0.176
psSAR10g [W/Kg]	0.151	0.156
Power Drift [dB]	-0.21	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		9.1

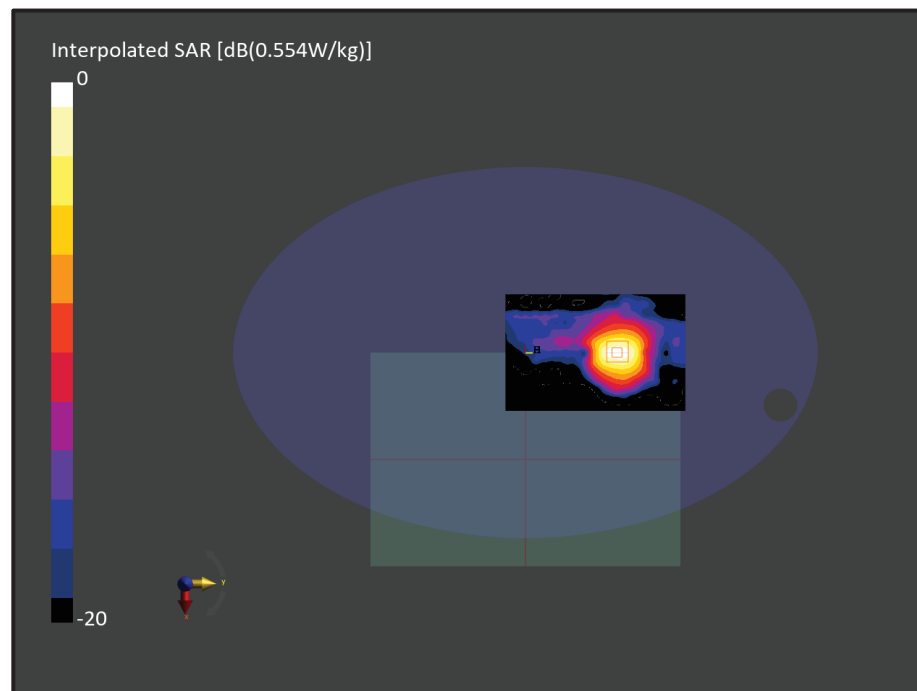


Figure C.30: SAR and APD Testing Results for the A2992 at 6185.0 MHz



Measurement Report for A2992, BOTTOM, U-NII-5, IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

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, 10755-AAC	, 47	5.5	5.79	34.1

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 19.9 deg.C 2023-Sep-04 SYS1 B1, 2023-Sep-04	EX3DV4 - SN3759, 2022-12-15	DAE4 Sn475, 2022-12-13

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	3.4 x 3.4 x 1.4	3.4 x 3.4 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	Y	Y
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-04, 05:31	2023-09-04, 05:41	2023-09-04, 05:52
psSAR1g [W/Kg]	0.296	0.318	0.229
psSAR8g [W/Kg]		0.130	0.085
psSAR10g [W/Kg]	0.112	0.116	0.075
Power Drift [dB]	0.13	0.11	0.12
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	No correction	No correction	No correction
M2/M1 [%]		49.8	48.7
Dist 3dB Peak [mm]		8.5	7.5

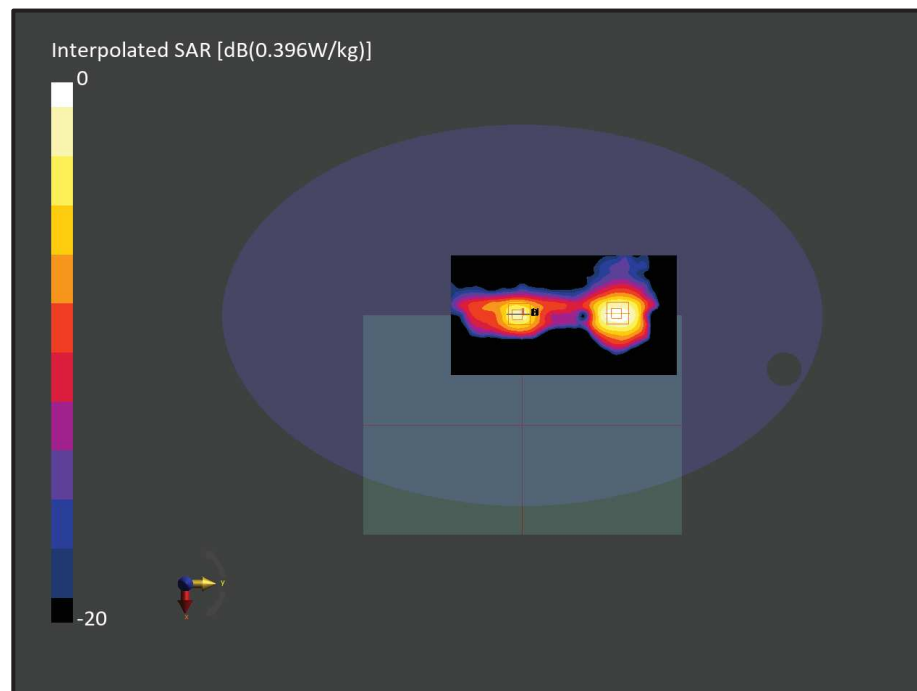


Figure C.31: SAR and APD Testing Results for the A2992 at 6185.0 MHz



Measurement Report for A2992, BOTTOM, U-NII-5, UID 10755 AAC, Channel 47 (6185.0MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2992	310.0 x 220.0 x 10.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
5G Air	BACK, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0	-	-

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1112	---Air	EUmmWV4 - SN9641_F1-55.0 GHz, 2022-10-25	DAE4ip Sn1785, 2023-04-03

Scans Setup

	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.04211272847496038 x 0.04211272847496038
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

	5G Scan
Date	2023-09-13, 14:14
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.83
psPDtot+ [W/m ²]	6.14
psPDmod+ [W/m ²]	6.51
E _{max} [V/m]	73.8
Power Drift [dB]	-0.08

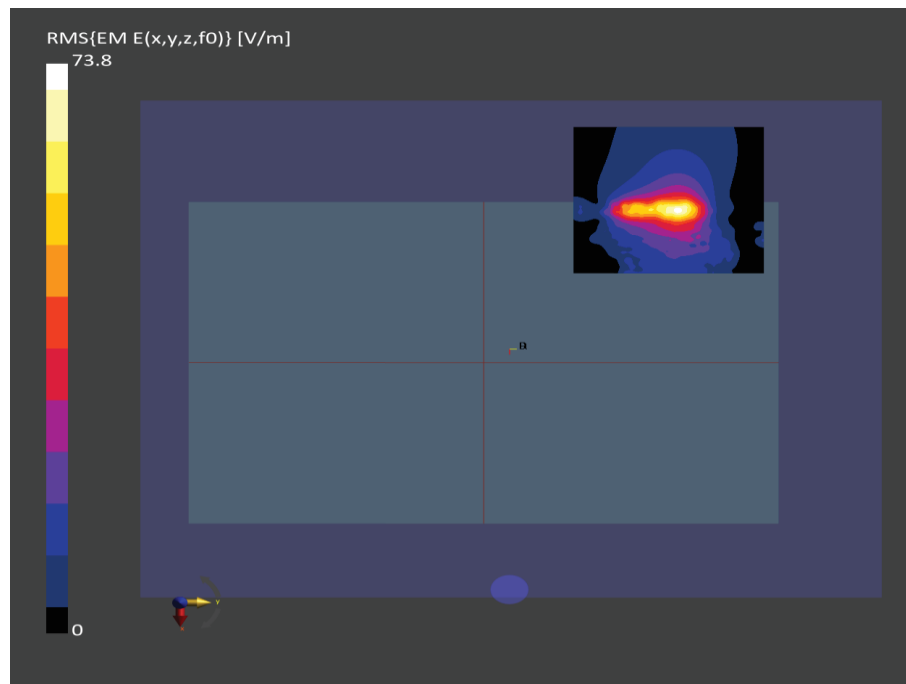


Figure C.32: iPD Testing Results for the A2992 at 6185.0 MHz



ANNEX D

THREAD TECHNOLOGY DUTY FACTOR CORRECTION



A2992 Thread Scaling Rationale

The measured SAR Results for the Thread RAT, as detailed in TUV SUD SAR Reports (Document 75958013-09 Issue 01 – **A2992**) & (Document 75958013-10 Issue 01 – **A2992**) were scaled down from 100% duty cycle to 60.61% to adjust for the normal operating conditions of this technology.

With the measured SAR Results having been taken with the device operating in a test mode, on a fixed channel with 100% duty cycle, as shown below in figure 1.

Duty Cycle used or SAR Measurements

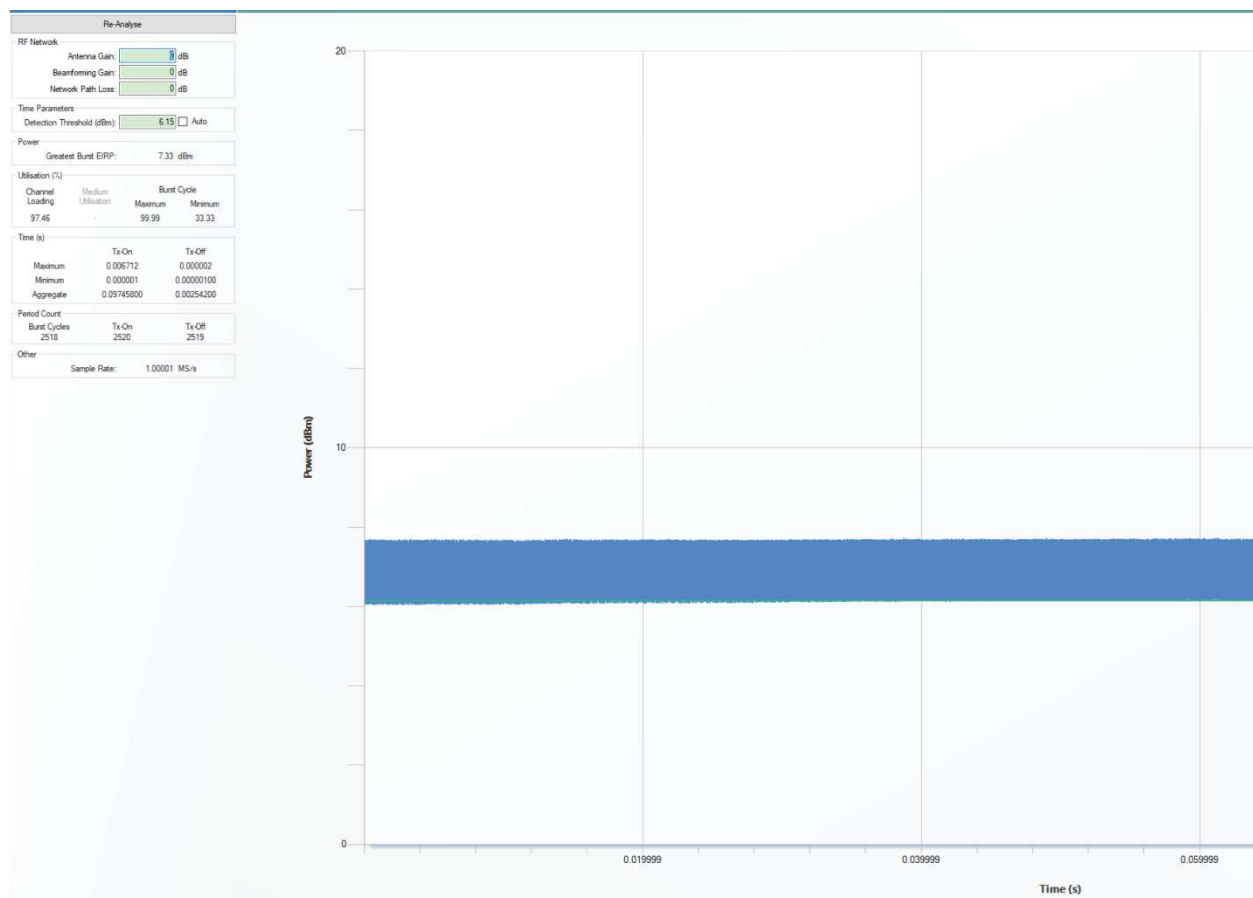


Figure 1 – Thread ePA - Frequency of 2405 MHz (100 % Duty Cycle – Measured 99.99%)



And the normal dwell time for this FHSS technology, having subsequently been measured at 60.61% duty cycle, when the device was configured to operate on a single hopping channel, as shown below in figure 2.

Duty Cycle used for Normal Operation.

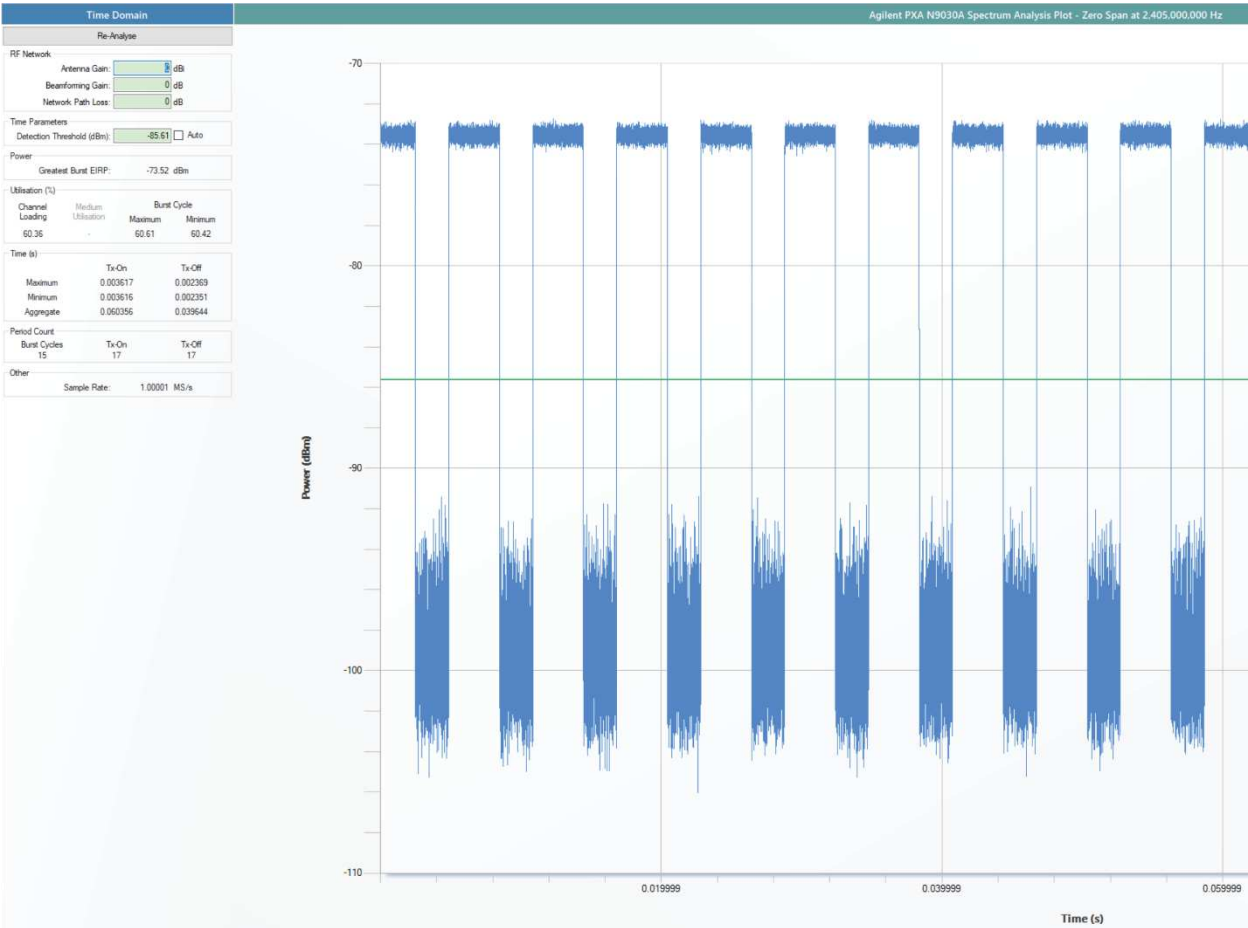


Figure 2 - Thread ePA - Frequency of 2405 MHz (60.61% Duty Cycle)