

RF Exposure report



The following samples were submitted and identified on behalf of the client as:

Product Name	Notebook Computer
Brand Name	<i>acer</i>
Model No.	N25LD4
Applicant	Acer Incorporated 8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	HLZN25LD4
Date of EUT Receipt	Nov. 03, 2025
Date of Test(s)	Nov. 11, 2025 ~ Nov. 14, 2025
Date of Issue	Dec. 23, 2025

Approved By /

John Teh

John Yeh

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2511000836E5	00	Initial creation of document	Dec. 05, 2025	Kimmy Chiou	
TESA2511000836E5	01	Update CO-SAR	Dec. 23, 2025	Kimmy Chiou	*

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r02

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1.2 Description of EUT

Product Name	Notebook Computer	
Brand Name		
Model No.	N25LD4	
Integrated WLAN Module	Brand Name: FN-LINK Model Name: 6251C-PUB	
Duty Cycle	WLAN802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5250.0 MHz)
		5.3GHz (5250.0 – 5350.0 MHz)
		5.6GHz (5470.0 – 5725.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

1.3 Maximum value

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
Bluetooth(GFSK)	0.48
2.4G WLAN	1.20
5G WLAN	0.61

1.4 Antenna Information

Vendor	INPAQ				
Antenna	Main				
Part Number	WA-F-LE-02-080				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Peak Gain (dBi)	2.83	2.53	2.67	2.44	2.77
Antenna	Aux				
Part Number	WA-F-LE-01-027				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Peak Gain (dBi)	2.57	2.61	2.61	2.80	2.49

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Manager	FCC Designation number/ Registration Number	IC CAB identifier/ Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan	SAR 2	-	-	TW0029/ 150169	TW3702/ 23862
		SAR 6	-	-		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	Jay Lin	Tom Chiang	TW0028/ 200037	TW3702/ 4620E
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	-	-	TW0027/ 891563	TW3702/ 4620A
		SAR 7	-	-		

Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

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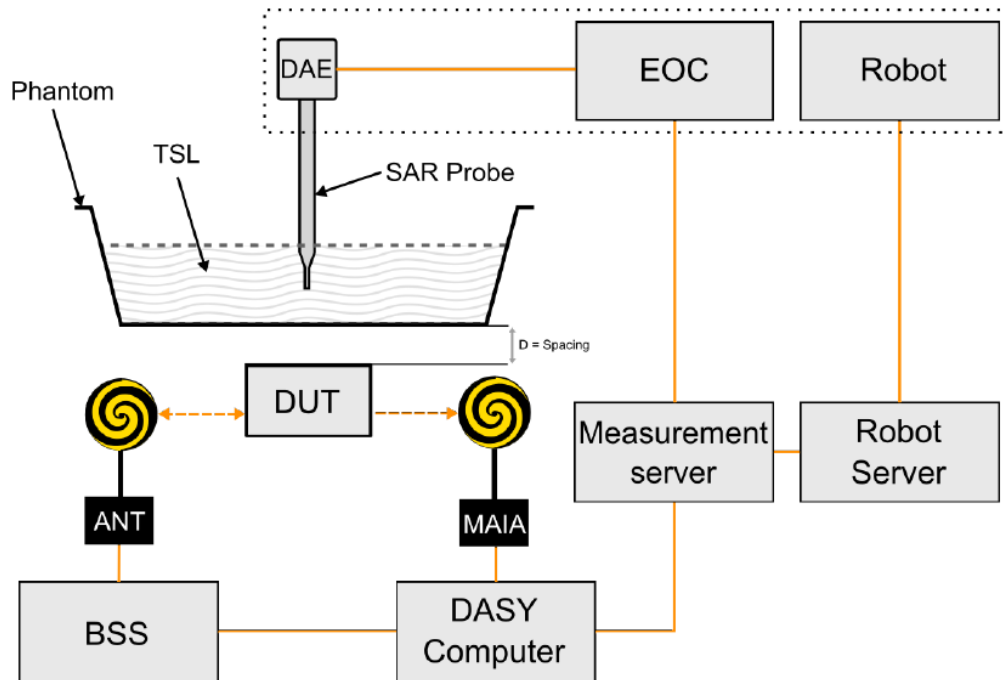
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2.2 SAR System

Block Diagram (DASY8)

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750/5850 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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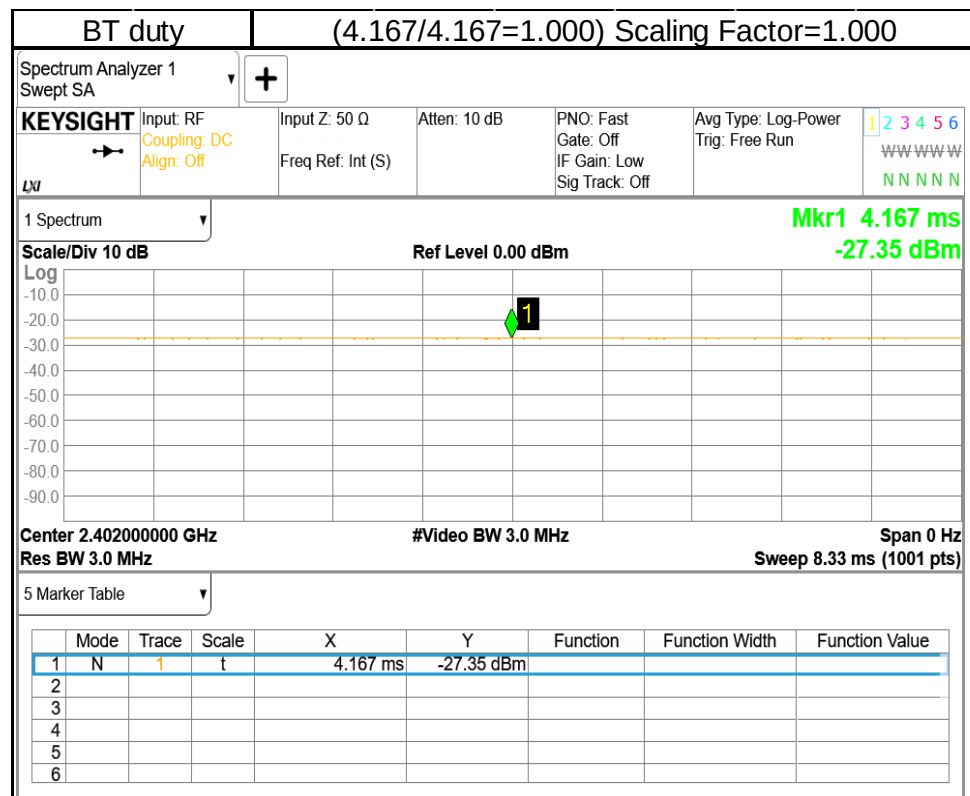
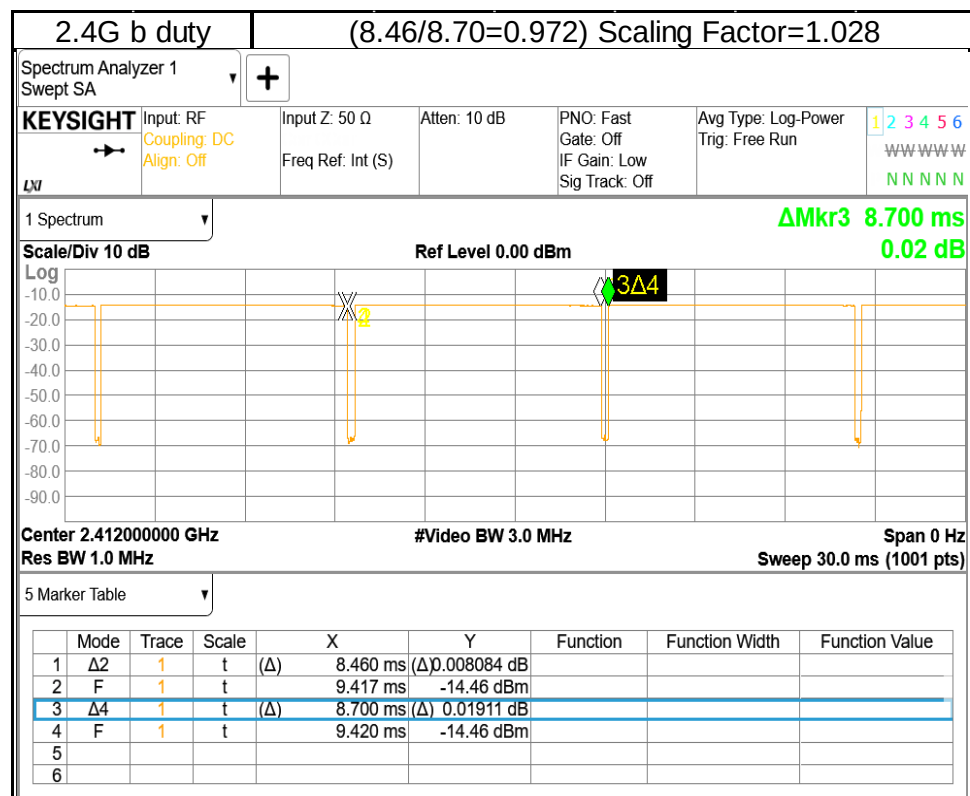
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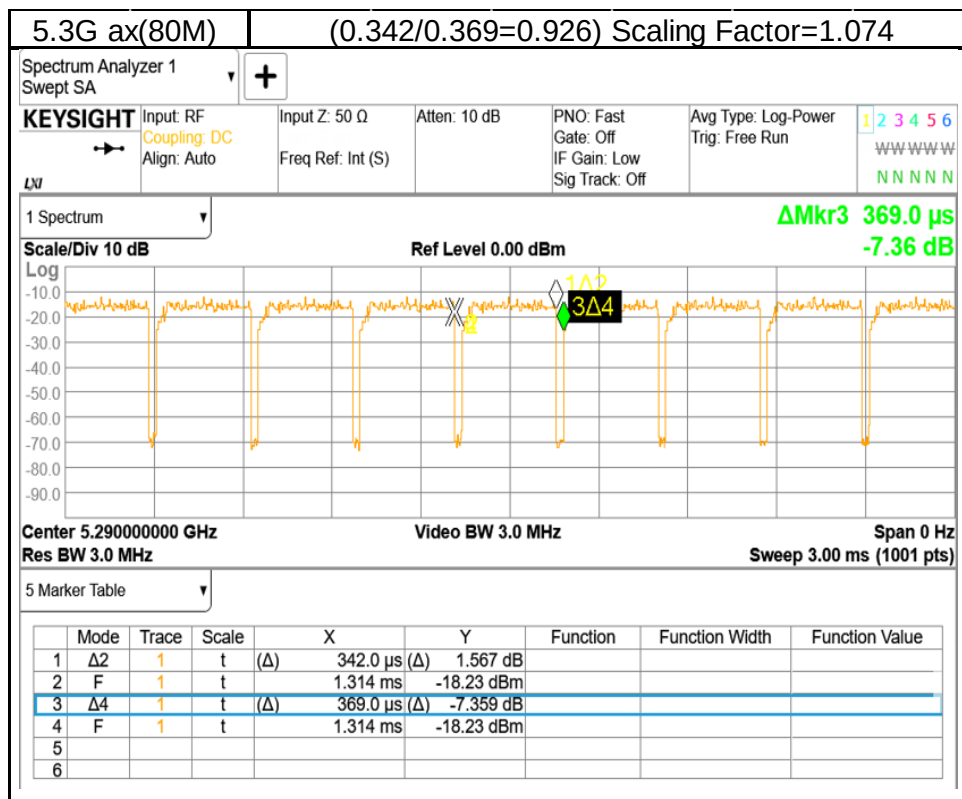
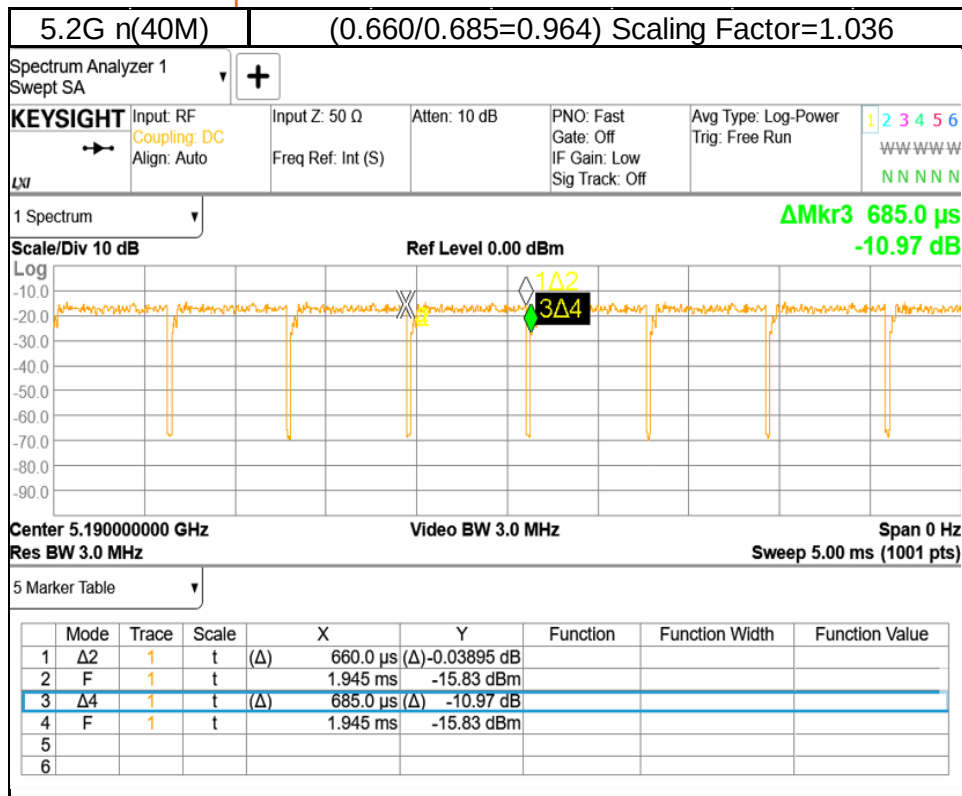
3 DUTY CYCLE



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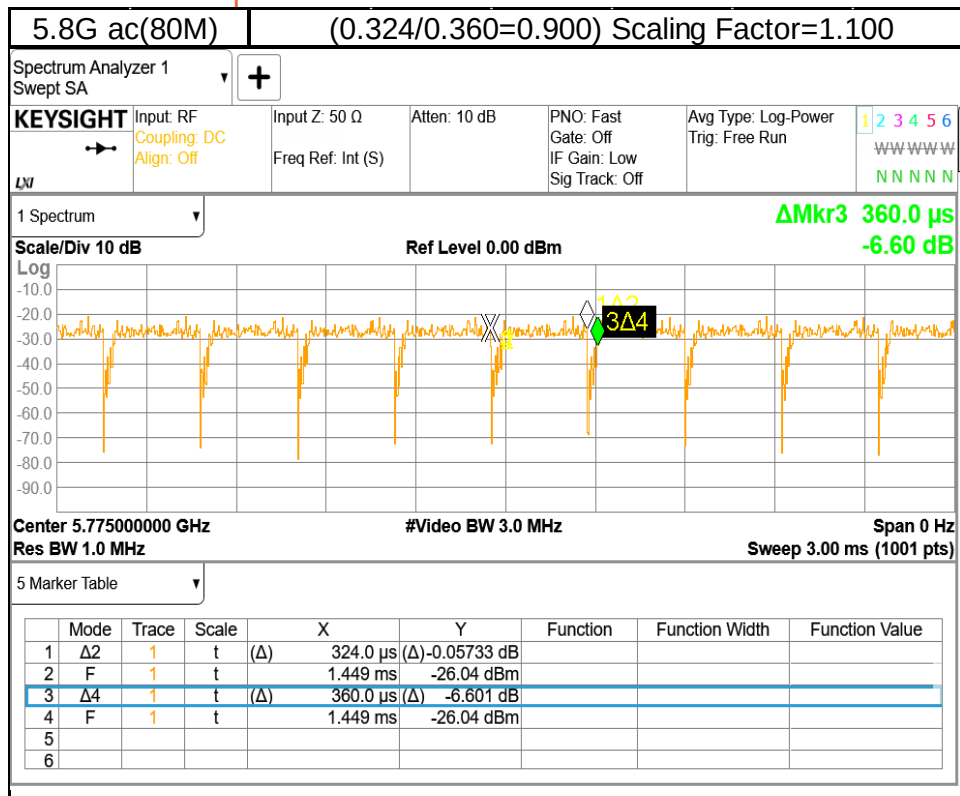
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4 SAR SYSTEM VERIFICATION

4.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

4.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	39.296	1.758	39.517	1.808	0.56%	2.82%	$\pm 10\%$	Nov. 12, 2025
2412	39.276	1.767	39.500	1.817	0.57%	2.83%	$\pm 10\%$	
2417	39.266	1.771	39.491	1.821	0.57%	2.80%	$\pm 10\%$	
2437	39.226	1.789	39.455	1.839	0.58%	2.81%	$\pm 10\%$	
2441	39.218	1.792	39.448	1.842	0.59%	2.78%	$\pm 10\%$	
2450	39.200	1.800	39.432	1.850	0.59%	2.78%	$\pm 10\%$	
2480	39.160	1.832	39.394	1.878	0.60%	2.51%	$\pm 10\%$	
5190	36.010	4.650	36.229	4.702	0.61%	1.13%	$\pm 10\%$	Nov. 13, 2025
5210	35.990	4.670	36.206	4.723	0.60%	1.13%	$\pm 10\%$	
5230	35.970	4.690	36.184	4.744	0.59%	1.15%	$\pm 10\%$	
5250	35.950	4.710	36.161	4.765	0.59%	1.17%	$\pm 10\%$	
5270	35.930	4.730	36.138	4.785	0.58%	1.16%	$\pm 10\%$	
5290	35.910	4.750	36.115	4.806	0.57%	1.18%	$\pm 10\%$	
5530	35.605	4.997	35.841	5.056	0.66%	1.19%	$\pm 10\%$	
5600	35.500	5.070	35.761	5.128	0.74%	1.14%	$\pm 10\%$	
5610	35.490	5.080	35.749	5.138	0.73%	1.14%	$\pm 10\%$	
5690	35.410	5.160	35.658	5.221	0.70%	1.18%	$\pm 10\%$	
5750	35.350	5.220	35.589	5.283	0.68%	1.21%	$\pm 10\%$	
5775	35.325	5.245	35.561	5.309	0.67%	1.22%	$\pm 10\%$	Nov. 14, 2025
5850	35.250	5.280	35.475	5.387	0.64%	2.03%	$\pm 10\%$	
5210	35.990	4.670	36.824	4.802	2.32%	2.83%	$\pm 10\%$	
5250	35.950	4.710	36.779	4.844	2.31%	2.85%	$\pm 10\%$	
5290	35.910	4.750	36.733	4.886	2.29%	2.86%	$\pm 10\%$	
5530	35.605	4.997	36.459	5.139	2.40%	2.85%	$\pm 10\%$	
5600	35.500	5.070	36.379	5.212	2.48%	2.80%	$\pm 10\%$	
5610	35.490	5.080	36.367	5.223	2.47%	2.81%	$\pm 10\%$	
5690	35.410	5.160	36.276	5.307	2.45%	2.85%	$\pm 10\%$	
5750	35.350	5.220	36.207	5.370	2.42%	2.87%	$\pm 10\%$	
5775	35.325	5.245	36.179	5.396	2.42%	2.88%	$\pm 10\%$	
5850	35.250	5.280	36.093	5.475	0.64%	2.03%	$\pm 10\%$	

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4.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

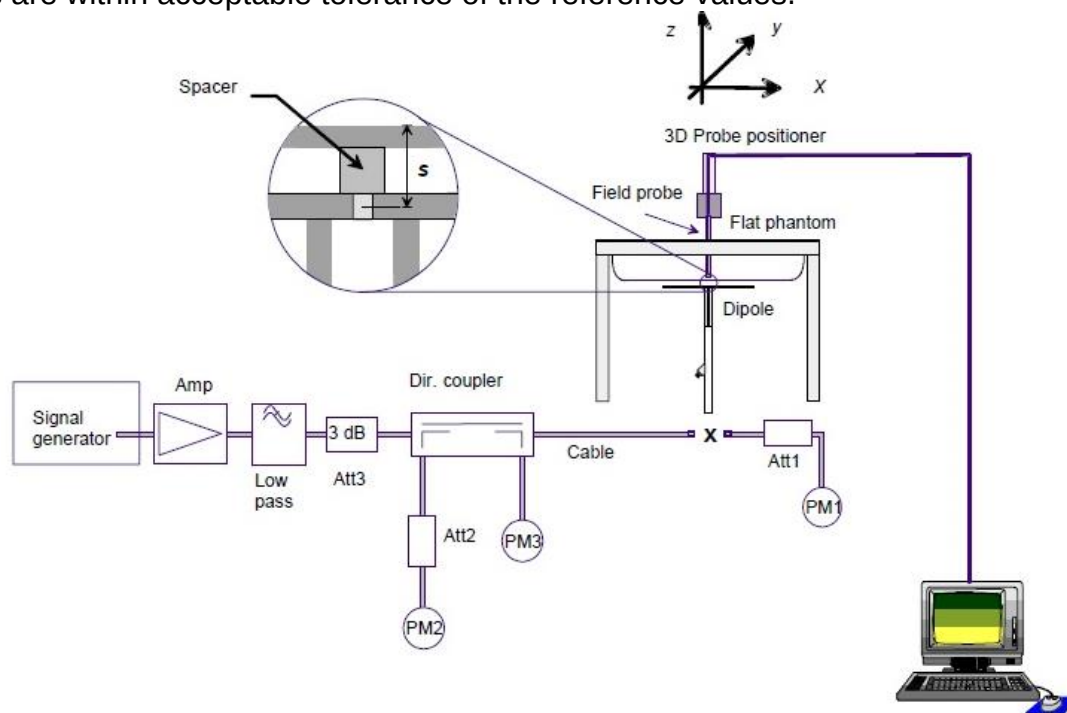
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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4.6 System check results

Ant1

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.6	12.8	51.2	-2.66	± 10%	Nov.12,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	7.52	75.2	-7.05	± 10%	Nov.14,2025
D5GHzV2	1349	5600	82.4	8.16	81.6	-0.97	± 10%	Nov.14,2025
D5GHzV2	1349	5750	80.8	8.01	80.1	-0.87	± 10%	Nov.14,2025
D5GHzV2	1349	5850	79.9	7.86	78.6	-1.63	± 10%	Nov.14,2025

Ant2

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	7.58	75.8	-6.30	± 10%	Nov.13,2025
D5GHzV2	1349	5600	82.4	8.20	82	-0.49	± 10%	Nov.13,2025
D5GHzV2	1349	5750	80.8	8.02	80.2	-0.74	± 10%	Nov.13,2025
D5GHzV2	1349	5850	79.9	7.87	78.7	-1.50	± 10%	Nov.13,2025

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5 TEST CONFIGURATIONS

5.1 Test Environment

Ambient Temperature: $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid: $22 \pm 2^\circ \text{C}$

5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8 \text{ W/kg}$, when the transmission band is $\leq 100 \text{ MHz}$.
- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is $> 0.8 \text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel; i.e., all channels require testing.
- **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$.
- **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is $> 0.8 \text{ W/kg}$, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is $\leq 1.2 \text{ W/kg}$ or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR is not required for subsequent test configuration.
- **WLAN 5GHz:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

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5.3 Test position

Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

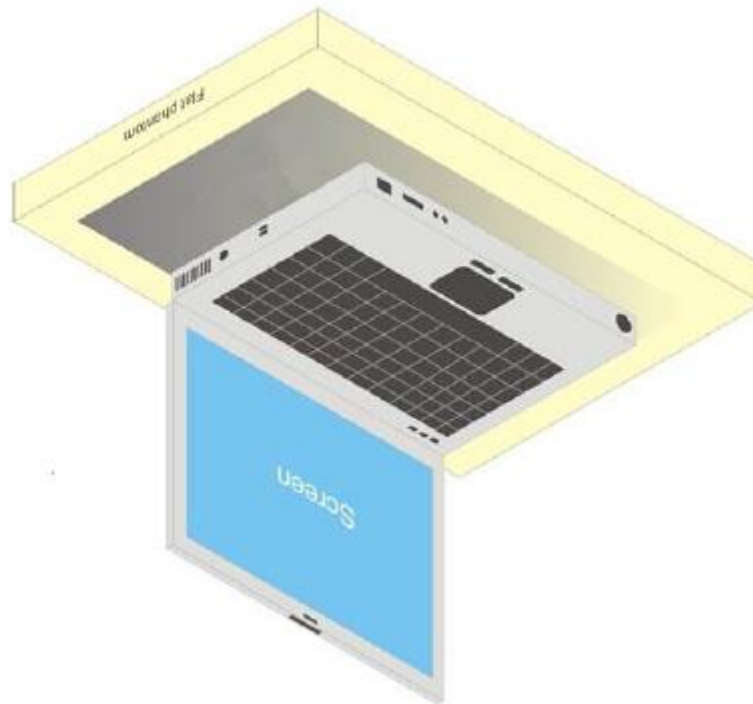


Illustration for Laptop Setup

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6 MAXIMUM OUTPUT POWER

6.1 WLAN

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.39
		6	2437		18.00	17.96
		11	2462		16.50	16.00
	802.11g	1	2412	6Mbps	18.00	17.66
		6	2437		18.00	17.57
		11	2462		18.00	17.69
	802.11n20-HT0	1	2412	MCS0	17.00	16.64
		6	2437		17.00	16.57
		11	2462		16.00	15.50
	802.11ax20-HE0	1	2412	MCS0	14.00	13.69
		6	2437		14.00	13.59
		11	2462		14.00	13.58
	802.11n40-HT0	3	2422	MCS0	17.00	16.51
		6	2437		17.00	16.67
		9	2452		15.50	15.24
	802.11ax40-HE0	3	2422	MCS0	14.00	13.70
		6	2437		14.00	13.62
		9	2452		14.00	13.57

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	13.56
		40	5200		14.00	13.56
		44	5220		14.00	13.60
		48	5240		14.00	13.67
	802.11n20-HT0	36	5180	MCS0	14.00	13.67
		40	5200		14.00	13.71
		44	5220		14.00	13.74
		48	5240		14.00	13.63
	802.11ac20-VHT0	36	5180	MCS0	14.00	13.59
		40	5200		14.00	13.65
		44	5220		14.00	13.63
		48	5240		14.00	13.71
	802.11ax20-HE0	36	5180	MCS0	12.50	12.20
		40	5200		13.50	13.15
		44	5220		13.50	13.08
		48	5240		13.50	13.16
	802.11n40-HT0	38	5190	MCS0	14.00	13.93
		46	5230		14.00	13.98
	802.11ac40-VHT0	38	5190	MCS0	14.00	13.65
		46	5230		14.00	13.73
	802.11ax40-HE0	38	5190	MCS0	13.00	12.57
		46	5230		14.00	13.62
	802.11ac80-VHT0	42	5210	MCS0	13.00	12.65
	802.11ax80-HE0	42	5210	MCS0	13.50	13.10

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	13.50	13.23
		56	5280		13.50	13.24
		60	5300		13.50	13.11
		64	5320		13.50	13.15
	802.11n20-HT0	52	5260	MCS0	13.50	13.17
		56	5280		13.50	13.22
		60	5300		13.50	13.10
		64	5320		13.50	13.20
	802.11ac20-VHT0	52	5260	MCS0	13.50	13.17
		56	5280		13.50	13.06
		60	5300		13.50	13.07
		64	5320		13.50	13.10
	802.11ax20-HE0	52	5260	MCS0	13.00	12.69
		56	5280		13.50	13.12
		60	5300		13.50	13.19
		64	5320		13.00	12.59
	802.11n40-HT0	54	5270	MCS0	13.50	13.21
		62	5310		13.50	13.17
	802.11ac40-VHT0	54	5270	MCS0	13.50	13.14
		62	5310		13.50	13.20
	802.11ax40-HE0	54	5270	MCS0	13.00	12.57
		62	5310		13.00	12.59
	802.11ac80-VHT0	58	5290	MCS0	11.00	10.47
	802.11ax80-HE0	58	5290	MCS0	13.50	13.20

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	13.50	13.07
		120	5600		13.50	13.21
		140	5700		13.50	13.20
		144	5720		13.50	13.08
	802.11n20-HT0	100	5500	MCS0	13.50	13.10
		120	5600		13.50	13.17
		140	5700		13.50	13.24
		144	5720		13.50	13.18
	802.11ac20-VHT0	100	5500	MCS0	13.50	13.18
		120	5600		13.50	13.25
		140	5700		13.50	13.18
		144	5720		13.50	13.19
	802.11ax20-HE0	100	5500	MCS0	13.50	13.17
		120	5600		13.50	13.10
		140	5700		13.50	13.12
		144	5720		13.50	13.19
	802.11n40-HT0	102	5510	MCS0	13.50	13.07
		118	5590		13.50	13.08
		134	5670		13.50	13.24
		142	5710		13.50	13.20
	802.11ac40-VHT0	102	5510	MCS0	13.50	13.06
		118	5590		13.50	13.05
		134	5670		13.50	13.05
		142	5710		13.50	13.15
	802.11ax40-HE0	102	5510	MCS0	13.50	13.24
		118	5590		13.50	13.19
		134	5670		13.00	12.55
		142	5710		13.50	13.10
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.02
		122	5610		13.50	13.31
		138	5690		13.50	13.49
	802.11ax80-HE0	106	5530	MCS0	13.50	13.21
		122	5610		13.50	13.25
		138	5690		13.50	13.15

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	12.50	12.10
		157	5785		12.50	12.22
		165	5825		12.50	12.21
	802.11n20-HT0	149	5745	MCS0	12.50	12.17
		157	5785		12.50	12.25
		165	5825		12.50	12.18
	802.11ac20-VHT0	149	5745	MCS0	12.50	12.18
		157	5785		12.50	12.20
		165	5825		12.50	12.09
	802.11ax20-HE0	149	5745	MCS0	12.50	12.09
		157	5785		12.50	12.22
		165	5825		12.50	12.13
	802.11n40-HT0	151	5755	MCS0	12.50	12.09
		159	5795		12.50	12.11
	802.11ac40-VHT0	151	5755	MCS0	12.50	12.19
		159	5795		12.50	12.08
	802.11ax40-HE0	151	5755	MCS0	12.50	12.10
		159	5795		12.50	12.20
	802.11ac80-VHT0	155	5775	MCS0	12.50	12.49
	802.11ax80-HE0	155	5775	MCS0	12.50	12.08
Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.50	17.47
		6	2437		18.50	18.26
		11	2462		16.50	16.18
	802.11g	1	2412	6Mbps	18.50	18.20
		6	2437		18.50	18.26
		11	2462		18.50	18.17
	802.11n20-HT0	1	2412	MCS0	17.00	16.69
		6	2437		17.00	16.68
		11	2462		16.00	15.60
	802.11ax20-HE0	1	2412	MCS0	13.50	13.30
		6	2437		13.50	13.15
		11	2462		13.00	12.71
	802.11n40-HT0	3	2422	MCS0	17.00	16.63
		6	2437		17.50	17.21
		9	2452		15.50	15.43
	802.11ax40-HE0	3	2422	MCS0	13.00	12.63
		6	2437		12.50	12.20
		9	2452		13.00	12.72

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.50	15.20
		40	5200		15.50	15.26
		44	5220		15.50	15.13
		48	5240		15.50	15.16
	802.11n20-HT0	36	5180	MCS0	15.50	15.20
		40	5200		15.50	15.20
		44	5220		15.50	15.19
		48	5240		15.50	15.28
	802.11ac20-VHT0	36	5180	MCS0	15.50	15.30
		40	5200		15.50	15.14
		44	5220		15.50	15.14
		48	5240		15.50	15.28
	802.11ax20-HE0	36	5180	MCS0	13.50	13.26
		40	5200		13.50	13.18
		44	5220		13.50	13.18
		48	5240		13.50	13.14
	802.11n40-HT0	38	5190	MCS0	15.50	15.32
		46	5230		15.50	15.13
	802.11ac40-VHT0	38	5190	MCS0	15.50	15.26
		46	5230		15.50	15.24
	802.11ax40-HE0	38	5190	MCS0	14.00	13.72
		46	5230		13.50	13.29
	802.11ac80-VHT0	42	5210	MCS0	13.00	12.78
	802.11ax80-HE0	42	5210	MCS0	13.50	13.15

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.00	14.79
		56	5280		15.00	14.77
		60	5300		15.00	14.70
		64	5320		15.00	14.79
	802.11n20-HT0	52	5260	MCS0	15.00	14.74
		56	5280		15.00	14.78
		60	5300		15.00	14.80
		64	5320		15.00	14.66
	802.11ac20-VHT0	52	5260	MCS0	15.00	14.80
		56	5280		15.00	14.63
		60	5300		15.00	14.72
		64	5320		15.00	14.69
	802.11ax20-HE0	52	5260	MCS0	14.00	13.66
		56	5280		14.00	13.63
		60	5300		14.00	13.68
		64	5320		13.50	13.18
	802.11n40-HT0	54	5270	MCS0	15.00	14.69
		62	5310		15.00	14.65
	802.11ac40-VHT0	54	5270	MCS0	15.00	14.81
		62	5310		15.00	14.78
	802.11ax40-HE0	54	5270	MCS0	13.50	13.20
		62	5310		14.00	13.79
	802.11ac80-VHT0	58	5290	MCS0	11.00	10.77
	802.11ax80-HE0	58	5290	MCS0	14.00	13.70

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.50	14.15
		120	5600		14.50	14.26
		140	5700		14.50	14.30
		144	5720		14.50	14.19
	802.11n20-HT0	100	5500	MCS0	14.50	14.26
		120	5600		14.50	14.26
		140	5700		14.50	14.22
		144	5720		14.50	14.17
	802.11ac20-VHT0	100	5500	MCS0	14.50	14.16
		120	5600		14.50	14.17
		140	5700		14.50	14.15
		144	5720		14.50	14.18
	802.11ax20-HE0	100	5500	MCS0	13.00	12.65
		120	5600		13.00	12.65
		140	5700		14.00	13.66
		144	5720		14.00	13.69
	802.11n40-HT0	102	5510	MCS0	14.50	14.27
		118	5590		14.50	14.20
		134	5670		14.50	14.20
		142	5710		14.50	14.22
	802.11ac40-VHT0	102	5510	MCS0	14.50	14.21
		118	5590		14.50	14.19
		134	5670		14.50	14.17
		142	5710		14.50	14.32
	802.11ax40-HE0	102	5510	MCS0	13.00	12.79
		118	5590		13.50	13.16
		134	5670		13.50	13.23
		142	5710		13.50	13.17
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.16
		122	5610		14.50	13.99
		138	5690		14.50	14.31
	802.11ax80-HE0	106	5530	MCS0	13.50	13.13
		122	5610		13.50	13.22
		138	5690		13.50	13.16

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	15.00	14.71
		157	5785		15.00	14.66
		165	5825		15.00	14.67
	802.11n20-HT0	149	5745	MCS0	15.00	14.72
		157	5785		15.00	14.62
		165	5825		15.00	14.80
	802.11ac20-VHT0	149	5745	MCS0	15.00	14.77
		157	5785		15.00	14.70
		165	5825		15.00	14.76
	802.11ax20-HE0	149	5745	MCS0	14.00	13.81
		157	5785		13.50	13.25
		165	5825		13.50	13.16
	802.11n40-HT0	151	5755	MCS0	15.00	14.62
		159	5795		15.00	14.63
	802.11ac40-VHT0	151	5755	MCS0	15.00	14.80
		159	5795		15.00	14.67
	802.11ax40-HE0	151	5755	MCS0	13.50	13.20
		159	5795		14.00	13.72
	802.11ac80-VHT0	155	5775	MCS0	15.00	14.97
	802.11ax80-HE0	155	5775	MCS0	14.00	13.66

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6.2 Bluetooth

Aux

	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	6.00	4.13	6.00	4.18	6.00	4.62
	CH 39	2441		4.61		4.21		4.95
	CH 78	2480		3.89		3.47		3.95

Main

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	5.50	4.80	5.50	4.60	5.50	5.31
	CH 39	2441		4.72		4.95		5.02
	CH 78	2480		3.58		3.59		4.14

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6.3 BLE

Aux

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	5	4.04
	CH 19	2440		4.27
	CH 39	2480		4.03
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	5.5	4.73
	CH 19	2440		5.19
	CH 39	2480		4.12

Main

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	5.5	4.79
	CH 19	2440		4.81
	CH 39	2480		3.97
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	5.5	5.01
	CH 19	2440		4.63
	CH 39	2480		3.89

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7 SUMMARY OF RESULTS

7.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

7.2 Summary of SAR Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant Main	Bottom Surface	0	1	2412	18.00	17.39	1.03	115.08%	0.971	1.149	001
WLAN 802.11b	Ant Main	Bottom Surface	0	6	2437	18.00	17.96	1.03	100.93%	0.953	0.989	-
WLAN 802.11b	Ant Main	Bottom Surface	0	11	2462	16.50	16.00	1.03	112.20%	0.941	1.085	-
WLAN 802.11b	Ant Main	Bottom Surface*	0	1	2412	18.00	17.39	1.03	115.08%	0.955	1.130	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Ant Main	Bottom Surface	0	00	2402	5.50	4.80	1.00	117.49%	0.305	0.358	002
Bluetooth(GFSK)	Ant Main	Bottom Surface	0	39	2441	5.50	4.72	1.00	119.67%	0.233	0.279	-
Bluetooth(GFSK)	Ant Main	Bottom Surface	0	78	2480	5.50	3.58	1.00	155.60%	0.251	0.391	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.2G	Ant Main	Bottom Surface	0	38	5190	14.00	13.93	1.04	101.62%	0.361	0.380	003
WLAN 802.11n(40M) 5.2G	Ant Main	Bottom Surface	0	46	5230	14.00	13.98	1.04	100.46%	0.355	0.369	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ax(80M) 5.3G	Ant Main	Bottom Surface	0	58	5290	13.50	13.20	1.07	107.15%	0.362	0.417	004
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom Surface	0	106	5530	13.50	13.02	1.10	111.69%	0.357	0.439	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom Surface	0	122	5610	13.50	13.31	1.10	104.47%	0.362	0.416	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom Surface	0	138	5690	13.50	13.49	1.10	100.23%	0.386	0.426	005
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Ant Main	Bottom Surface	0	155	5775	12.50	12.49	1.10	100.23%	0.327	0.361	006
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant Aux	Bottom Surface	0	1	2412	18.50	17.47	1.03	126.77%	0.918	1.196	007
WLAN 802.11b	Ant Aux	Bottom Surface	0	6	2437	18.50	18.26	1.03	105.68%	0.872	0.947	-
WLAN 802.11b	Ant Aux	Bottom Surface	0	11	2462	16.50	16.18	1.03	107.65%	0.860	0.952	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Ant Aux	Bottom Surface	0	00	2402	5.50	4.80	1.00	117.49%	0.389	0.457	008
Bluetooth(GFSK)	Ant Aux	Bottom Surface	0	39	2441	5.50	4.72	1.00	119.67%	0.321	0.384	-
Bluetooth(GFSK)	Ant Aux	Bottom Surface	0	78	2480	5.50	3.58	1.00	155.60%	0.308	0.479	-

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.2G	Ant Aux	Bottom Surface	0	38	5190	15.50	15.32	1.04	104.23%	0.466	0.503	009
WLAN 802.11n(40M) 5.2G	Ant Aux	Bottom Surface	0	46	5230	15.50	15.13	1.04	108.89%	0.455	0.513	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.3G	Ant Aux	Bottom Surface	0	54	5270	15.00	14.69	1.04	107.40%	0.428	0.476	010
WLAN 802.11n(40M) 5.3G	Ant Aux	Bottom Surface	0	62	5310	15.00	14.65	1.04	108.39%	0.411	0.462	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom Surface	0	106	5530	13.50	13.16	1.10	108.14%	0.429	0.510	011
WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom Surface	0	122	5610	14.50	13.99	1.10	112.46%	0.379	0.469	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom Surface	0	138	5690	14.50	14.31	1.10	104.47%	0.407	0.468	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Ant Aux	Bottom Surface	0	155	5775	15.00	14.97	1.10	100.69%	0.547	0.606	012

Note: * - repeated at the highest SAR measurement according to the KDB 865664 D01

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

7.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

7.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
WLAN 2.4GHz Main + BT Aux
WLAN 2.4GHz Aux + BT Main
WLAN 5GHz Main + BT Aux
WLAN 5GHz Aux + BT Main

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8.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

8.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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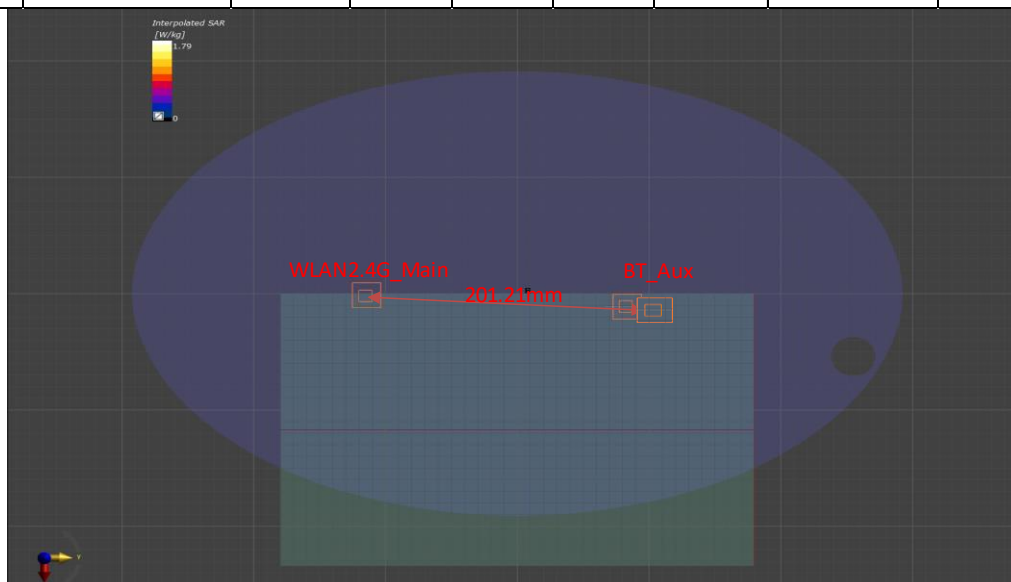
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Simultaneous Transmission Combination

		FCC Reported SAR						Scenario 1	Scenario 2	Scenario 3	Scenario 4
		2	3	4	5	6	7	2+7	3+6	4+7	5+6
Exposure Position		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Main	Bluetooth Aux	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	1.149	1.196	0.439	0.606	0.391	0.479	1.628	1.587	0.918	0.997
Front Edge of Keyboard	0	0.633	0.831	1.137	1.050	0.016	0.041	0.674	0.847	1.178	1.066

SPLSR

Scenario 1: 2+7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 2.4G Main	1.149	0.26	-11.58	-17.70	-	-	-	-
	BT Aux	0.479	0.16	-9.10	-17.70	1.616	201.21	0.010	SPLSR ≤ 0.04, Not required



8.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Mar/11/2025	Mar/10/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Feb/19/2025	Feb/18/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
Agilent	MXG Analog Signal Generator	N5181A	MY50144143	Apr/24/2025	Apr/23/2026
R&S	MXG Analog Signal Generator	SMB100A03	182012	Aug/09/2025	Aug/08/2026
Agilent	Dual-directional coupler	772D	MY46151258	Oct/08/2025	Oct/07/2026
Agilent	Dual-directional coupler	778D	MY46151242	Sep/09/2025	Sep/08/2026
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	45709	46073
R&S	Power Meter	NRX	102191	45709	46073
R&S	Power Sensor	NRP50S	101770	45834	46198
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	3896	45652	46016
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/03/2025	Oct/02/2026

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.48%	N	1	1	0.64	0.43	1.59%	1.07%	M
Liquid Conductivity (mea.)	2.88%	N	1	1	0.6	0.49	1.73%	1.41%	M
Combined standard uncertainty		RSS					11.95%	11.84%	
Expanded uncertainty (95% confidence)							23.90%	23.68%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertain	Probabili ty	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.60%	N	1	1	0.64	0.43	0.38%	0.26%	M
Liquid Conductivity (mea.)	2.83%	N	1	1	0.6	0.49	1.70%	1.39%	M
Combined standard uncertainty		RSS					11.55%	11.49%	
Expan uncertainty (95% confidence)							23.10%	22.99%	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Main

Ambient temperature: 23.5°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2412.000, 1	7.6	1.817	39.500

Hardware Setup

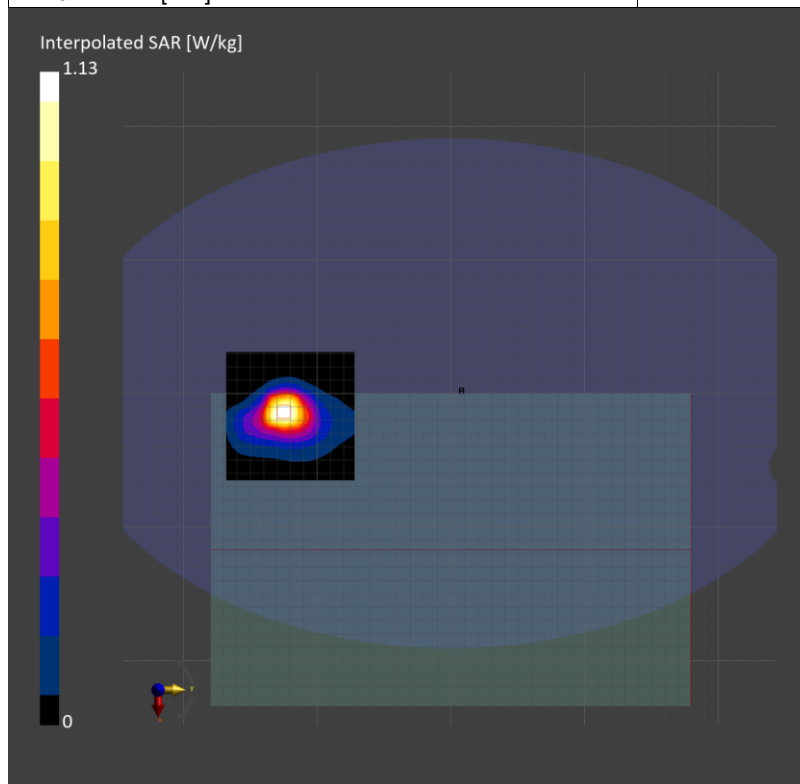
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-12	2025-11-12
psSAR1g [W/kg]	0.926	0.971
psSAR8g [W/kg]	0.503	0.517
psSAR10g [W/kg]	0.459	0.472
Power Drift [dB]	-0.01	0.00
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		11.7



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ID: 002

Report No. :TESA2511000836E5

Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH00_0mm_Main

Ambient temperature: 23.5°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2402.000, 0	7.6	1.808	39.517

Hardware Setup

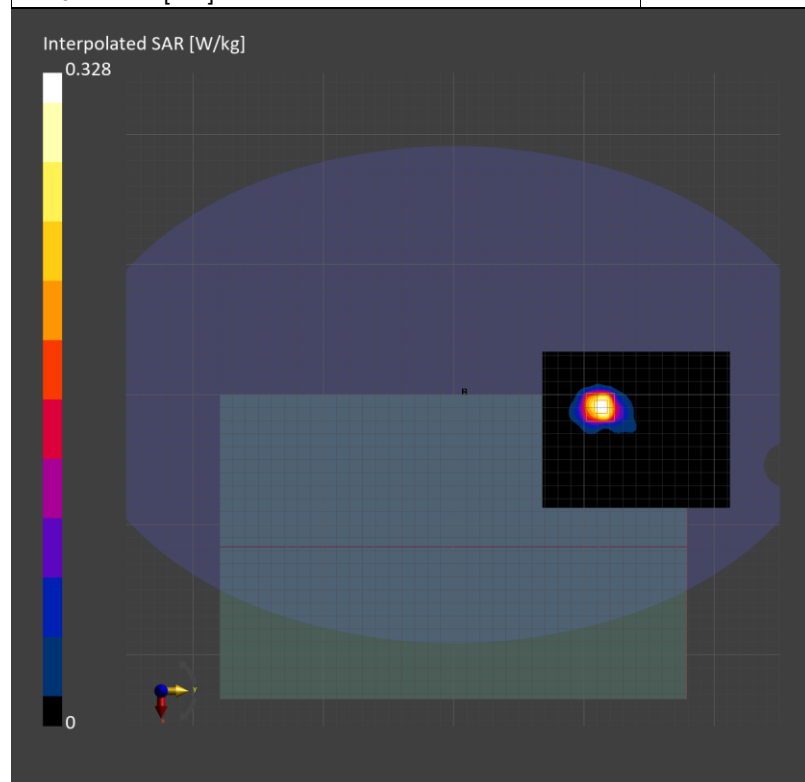
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 130.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-12	2025-11-12
psSAR1g [W/kg]	0.266	0.305
psSAR8g [W/kg]	0.135	0.139
psSAR10g [W/kg]	0.121	0.124
Power Drift [dB]	-0.05	0.01
M2/M1 [%]		40.1
Dist 3dB Peak [mm]		6.8



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ID: 003

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 38_0mm_Main

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5190.000, 38	5.82	4.702	36.229

Hardware Setup

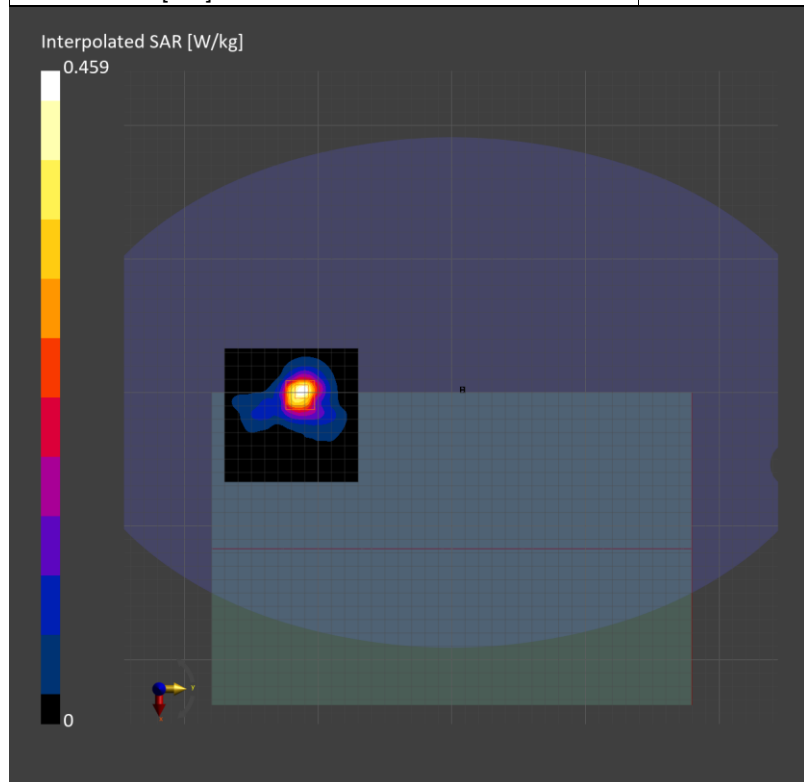
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	0.328	0.361
psSAR8g [W/kg]	0.136	0.146
psSAR10g [W/kg]	0.121	0.129
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		9.4



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ID: 004

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11ax(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5290.000, 58	5.82	4.806	36.115

Hardware Setup

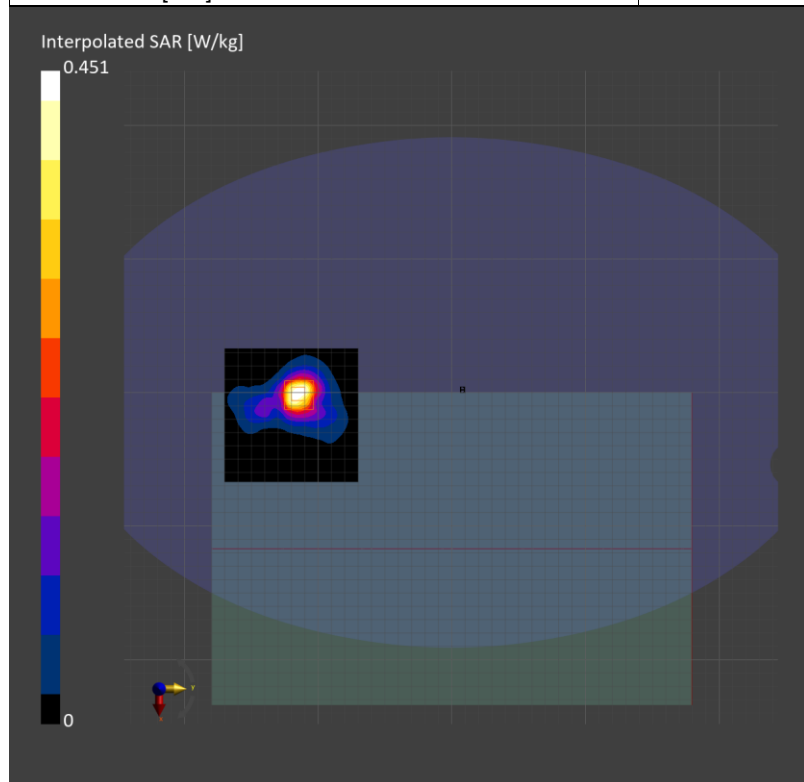
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	0.337	0.362
psSAR8g [W/kg]	0.143	0.147
psSAR10g [W/kg]	0.127	0.131
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		53.4
Dist 3dB Peak [mm]		9.7



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ID: 005

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Main

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5690.000, 138	5.46	5.221	35.658

Hardware Setup

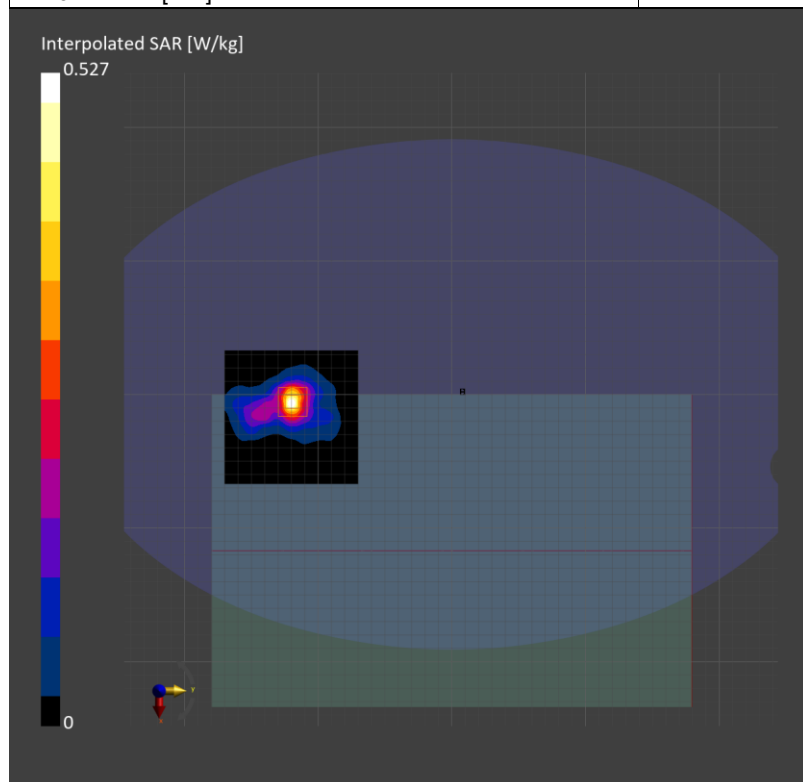
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	0.353	0.386
psSAR8g [W/kg]	0.136	0.147
psSAR10g [W/kg]	0.120	0.130
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		49.4
Dist 3dB Peak [mm]		8.7



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ID: 006

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5775.000, 155	5.46	5.309	35.561

Hardware Setup

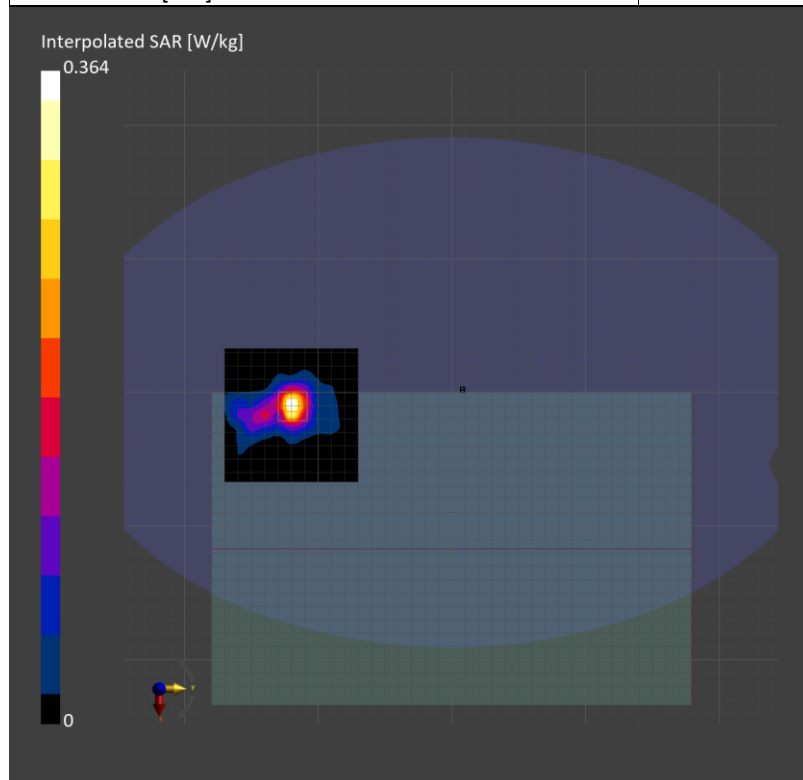
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	0.256	0.327
psSAR8g [W/kg]	0.101	0.125
psSAR10g [W/kg]	0.088	0.110
Power Drift [dB]	-0.01	0.03
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		7.2



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ID: 007

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Aux

Ambient temperature: 23.5°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2412.000, 1	7.6	1.817	39.500

Hardware Setup

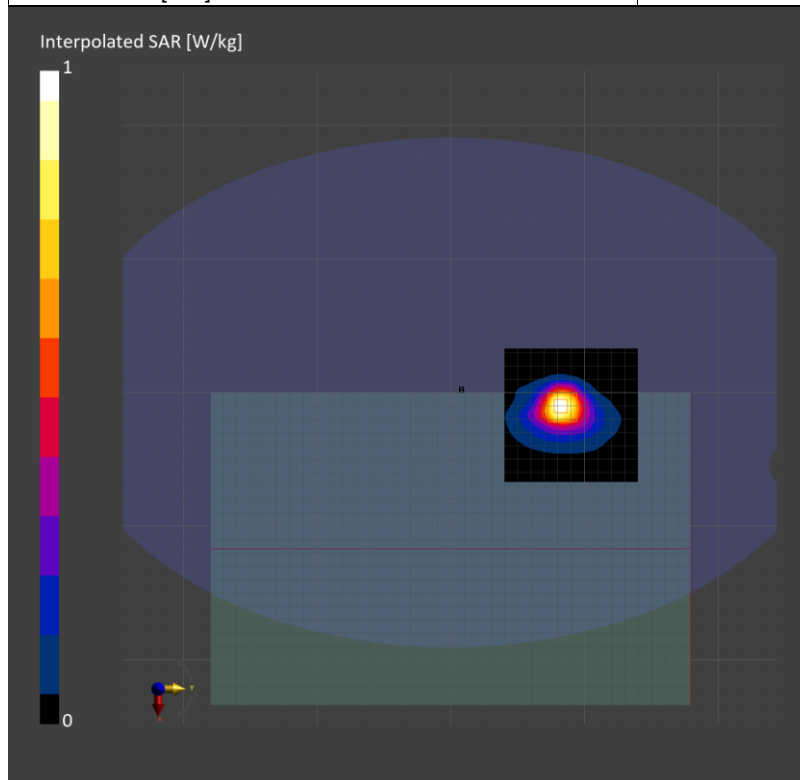
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-12	2025-11-12
psSAR1g [W/kg]	0.794	0.918
psSAR8g [W/kg]	0.436	0.484
psSAR10g [W/kg]	0.398	0.441
Power Drift [dB]	0.01	0.02
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		11.5



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ID: 008

Report No. :TESA2511000836E5

Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH00_0mm_Aux

Ambient temperature: 23.5°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2402.000, 0	7.6	1.808	39.517

Hardware Setup

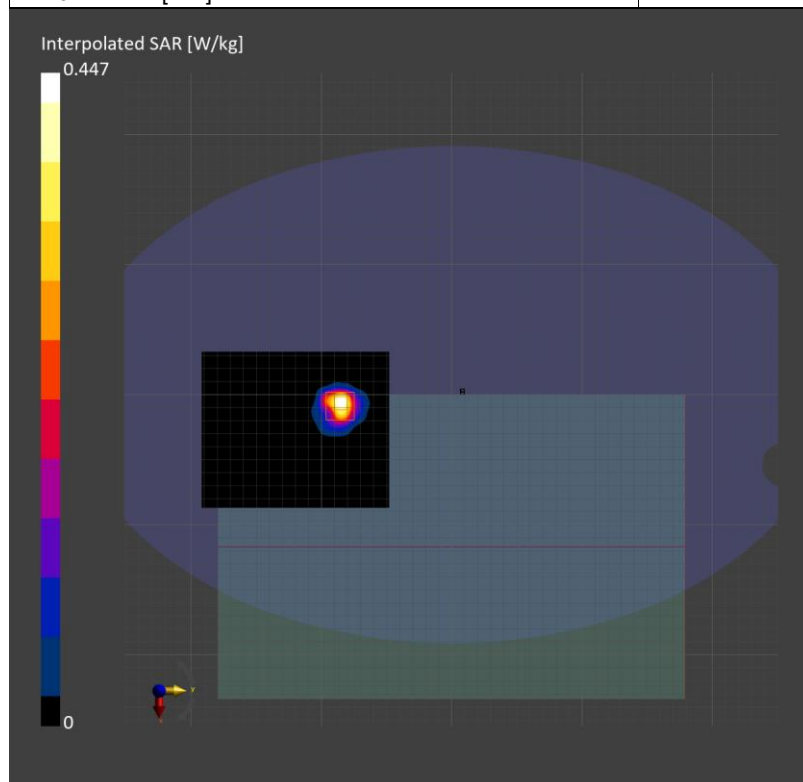
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 130.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-12	2025-11-12
psSAR1g [W/kg]	0.342	0.389
psSAR8g [W/kg]	0.167	0.172
psSAR10g [W/kg]	0.149	0.153
Power Drift [dB]	0.02	0.01
M2/M1 [%]		39.0
Dist 3dB Peak [mm]		6.4



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ID: 009

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 38_0mm_Aux

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5190.000, 38	5.82	4.702	36.229

Hardware Setup

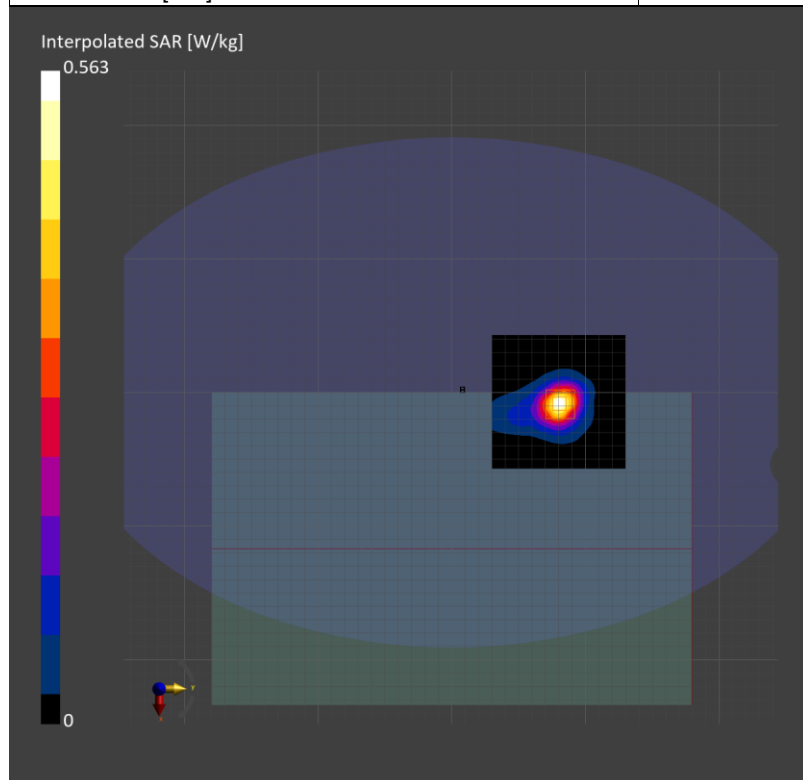
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	0.396	0.466
psSAR8g [W/kg]	0.165	0.203
psSAR10g [W/kg]	0.147	0.182
Power Drift [dB]	0.02	0.01
M2/M1 [%]		57.1
Dist 3dB Peak [mm]		9.7



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ID: 010

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Aux

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5270.000, 54	5.82	4.785	36.138

Hardware Setup

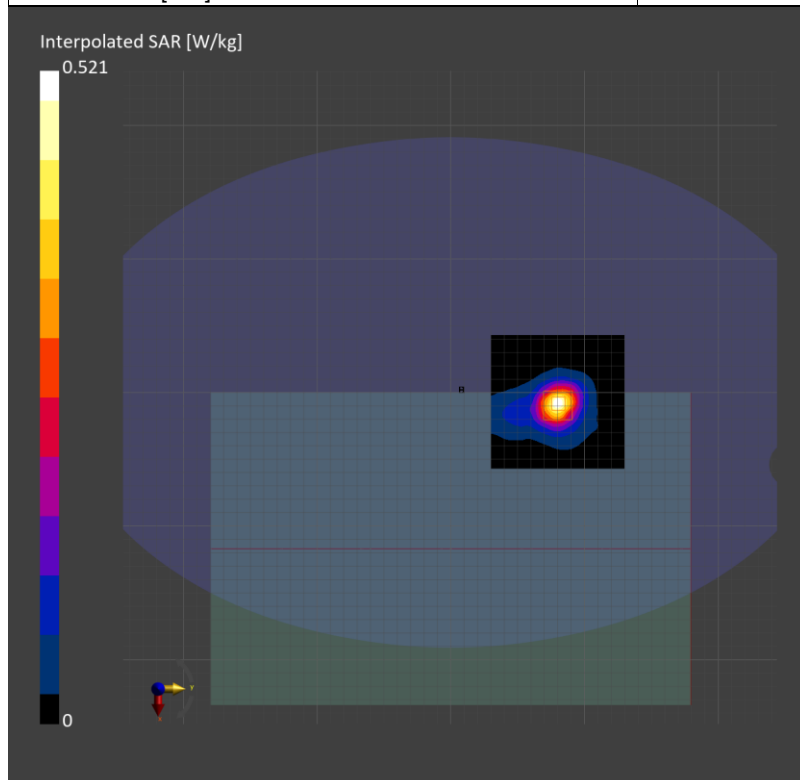
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	0.365	0.428
psSAR8g [W/kg]	0.152	0.186
psSAR10g [W/kg]	0.136	0.167
Power Drift [dB]	0.01	0.02
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		9.0



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ID: 011

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 106_0mm_Aux

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5530.000, 106	5.44	5.139	36.459

Hardware Setup

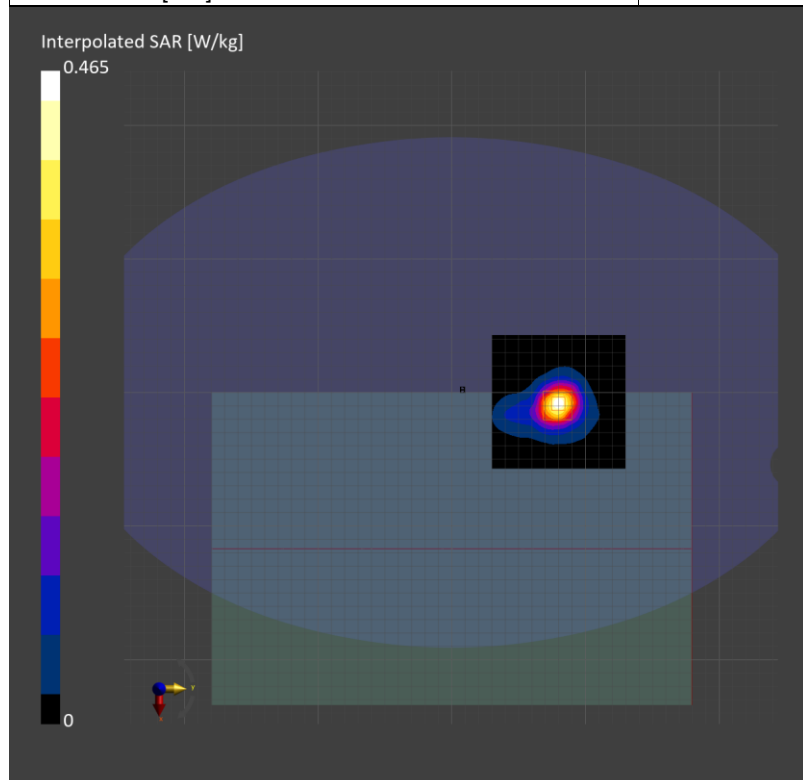
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	0.332	0.429
psSAR8g [W/kg]	0.139	0.181
psSAR10g [W/kg]	0.124	0.162
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		43.7
Dist 3dB Peak [mm]		10.1



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ID: 012

Report No. :TESA2511000836E5

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Aux

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5775.000, 155	5.46	5.396	36.179

Hardware Setup

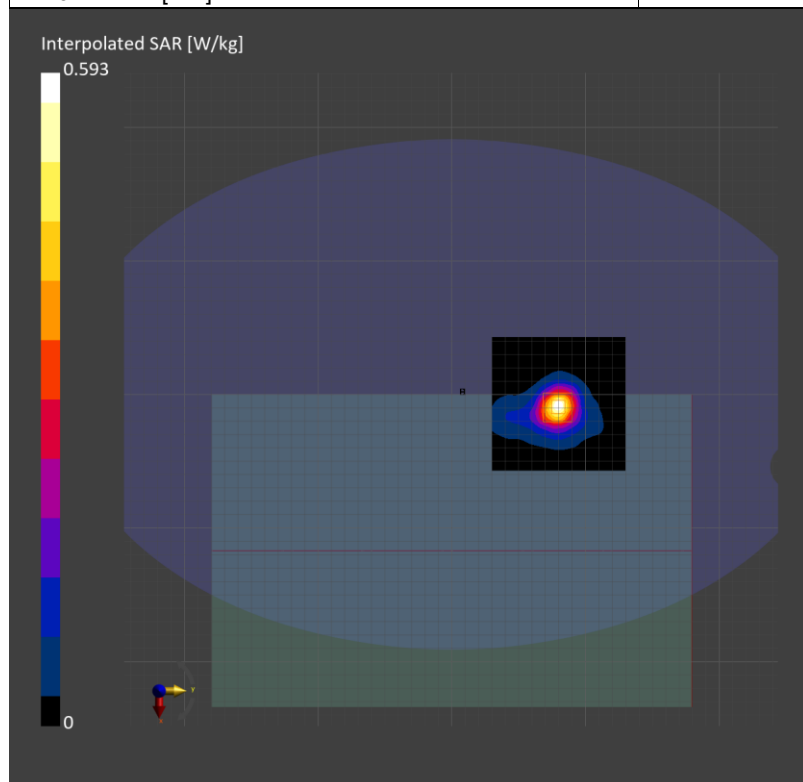
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	0.422	0.547
psSAR8g [W/kg]	0.172	0.224
psSAR10g [W/kg]	0.154	0.200
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		42.9
Dist 3dB Peak [mm]		8.4



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12 SAR SYSTEM CHECK RESULTS

Report No. :TESA2511000836E5

Measurement Report

Dipole_2450_SN:727

Ambient temperature: 23.5°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	7.6	1.85	39.432

Hardware Setup

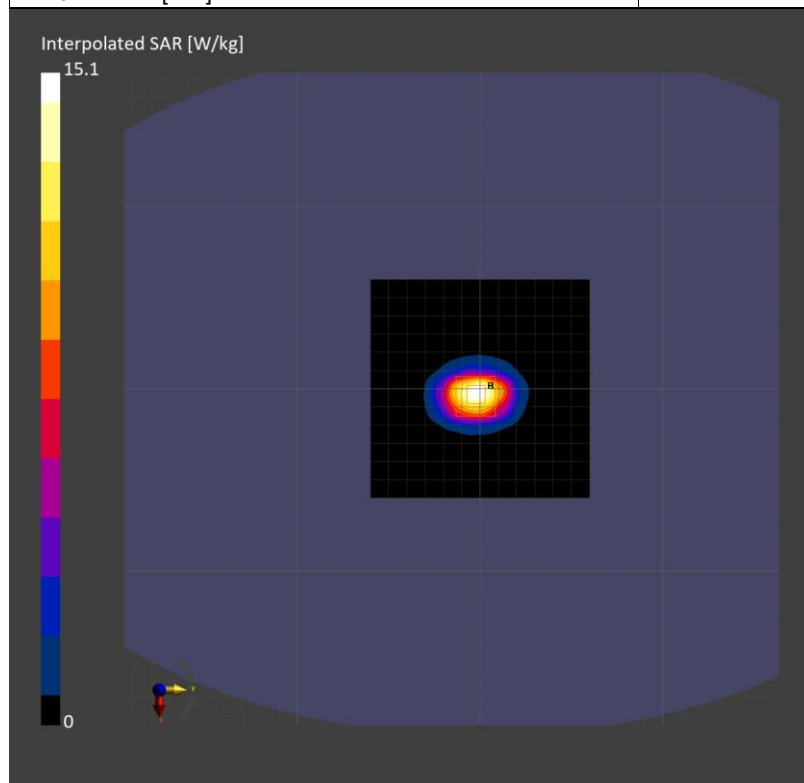
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-12	2025-11-12
psSAR1g [W/kg]	11.8	12.8
psSAR8g [W/kg]	6.32	6.66
psSAR10g [W/kg]	5.74	6.05
Power Drift [dB]	-0.00	0.00
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		9.1



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Report No. : TESA2511000836E5

Measurement Report

Dipole_5250_SN_1349

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.82	4.844	36.779

Hardware Setup

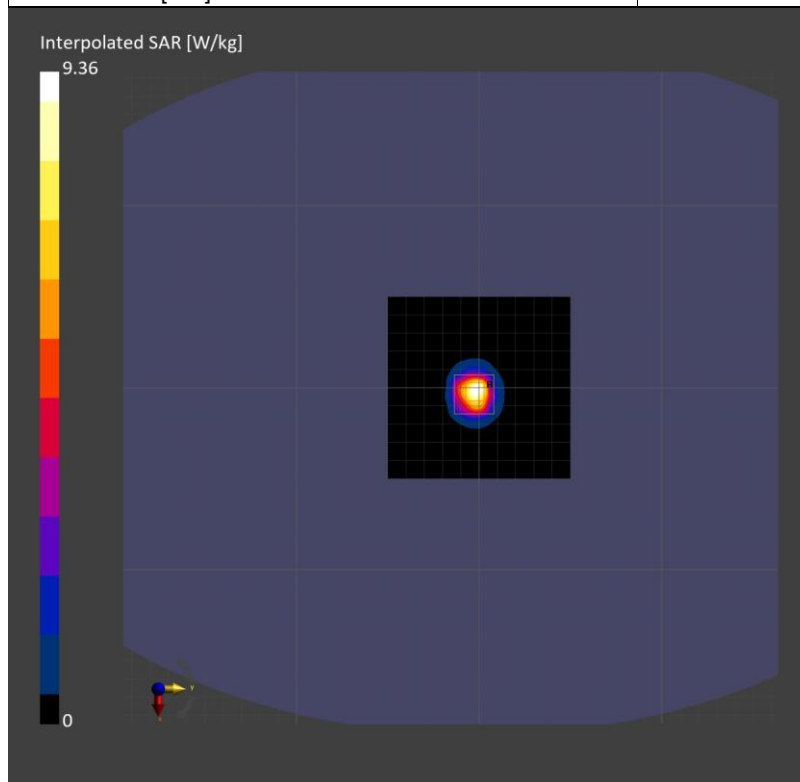
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	6.34	7.52
psSAR8g [W/kg]	2.28	2.48
psSAR10g [W/kg]	1.97	2.10
Power Drift [dB]	-0.03	-0.01
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2511000836E5

Measurement Report

Dipole_5600_SN_1349

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.44	5.212	36.379

Hardware Setup

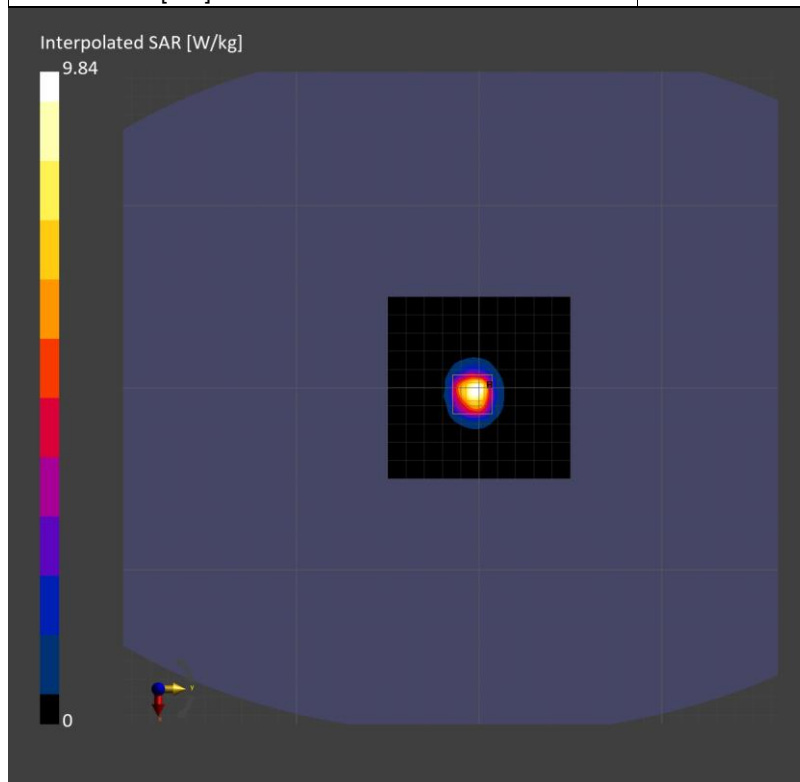
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	6.83	8.16
psSAR8g [W/kg]	2.45	2.69
psSAR10g [W/kg]	2.12	2.28
Power Drift [dB]	-0.02	-0.00
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2511000836E5

Measurement Report

Dipole_5750_SN_1349

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.46	5.370	36.207

Hardware Setup

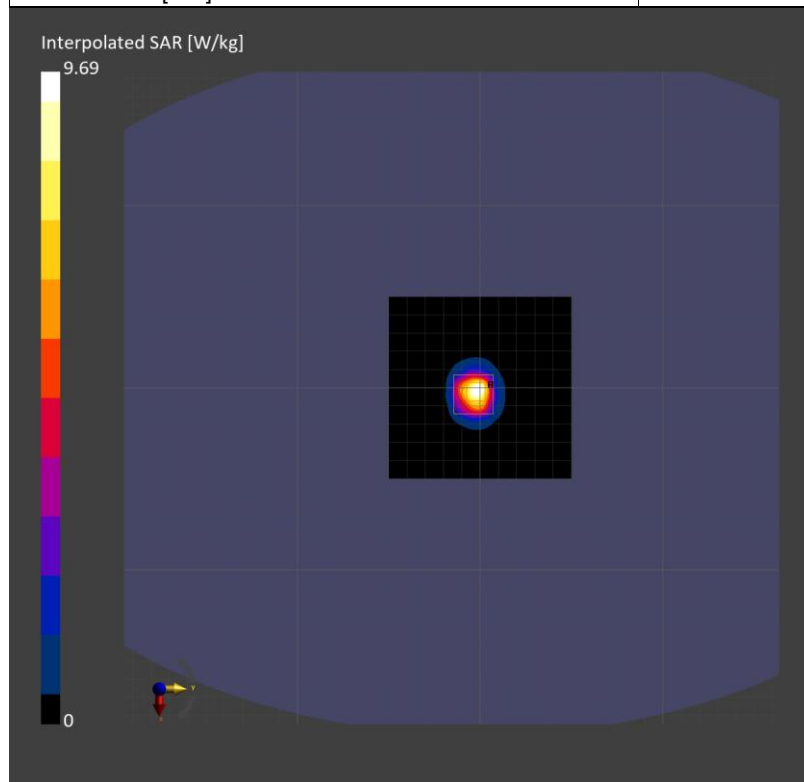
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	6.73	8.01
psSAR8g [W/kg]	2.40	2.63
psSAR10g [W/kg]	2.08	2.22
Power Drift [dB]	-0.04	-0.01
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		7.4



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Member of SGS Group

Report No. : TESA2511000836E5

Measurement Report

Dipole_5850_SN_1349

Ambient temperature: 23.1°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.49	5.475	36.093

Hardware Setup

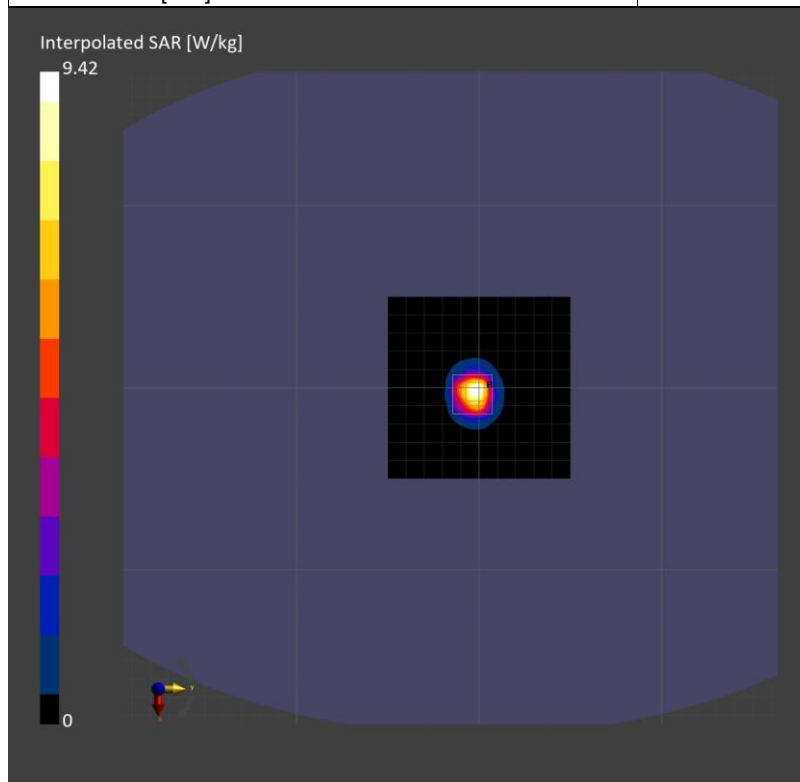
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-14	2025-11-14
psSAR1g [W/kg]	6.61	7.86
psSAR8g [W/kg]	2.35	2.58
psSAR10g [W/kg]	2.04	2.18
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		57.9
Dist 3dB Peak [mm]		7.6



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Report No. : TESA2511000836E5

Measurement Report

Dipole_5250_SN_1349

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.82	4.765	36.161

Hardware Setup

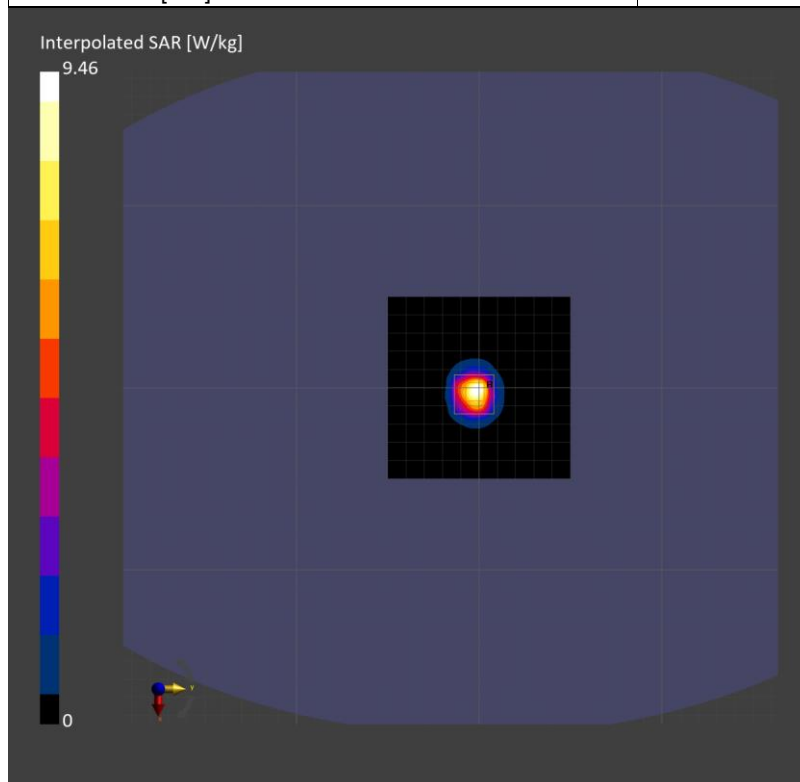
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	6.41	7.58
psSAR8g [W/kg]	2.30	2.51
psSAR10g [W/kg]	1.99	2.12
Power Drift [dB]	-0.04	-0.00
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		7.6



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Report No. : TESA2511000836E5

Measurement Report

Dipole_5600_SN_1349

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.44	5.128	35.761

Hardware Setup

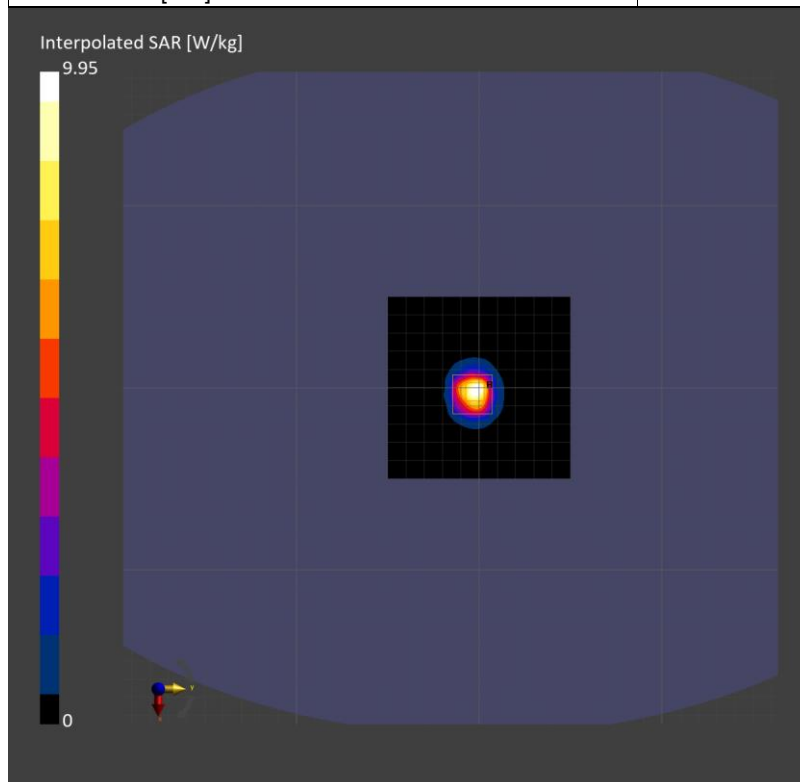
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	6.91	8.20
psSAR8g [W/kg]	2.48	2.71
psSAR10g [W/kg]	2.15	2.30
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2511000836E5

Measurement Report

Dipole_5750_SN_1349

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.46	5.283	35.589

Hardware Setup

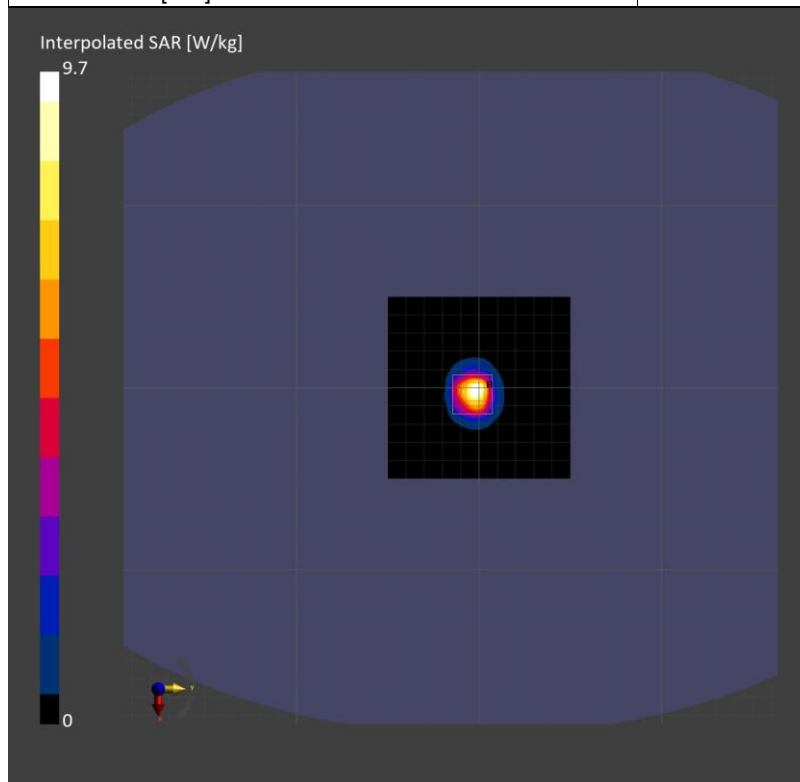
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	6.74	8.02
psSAR8g [W/kg]	2.40	2.63
psSAR10g [W/kg]	2.08	2.23
Power Drift [dB]	-0.04	-0.01
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2511000836E5

Measurement Report

Dipole_5850_SN_1349

Ambient temperature: 23.3°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5.49	5.387	35.475

Hardware Setup

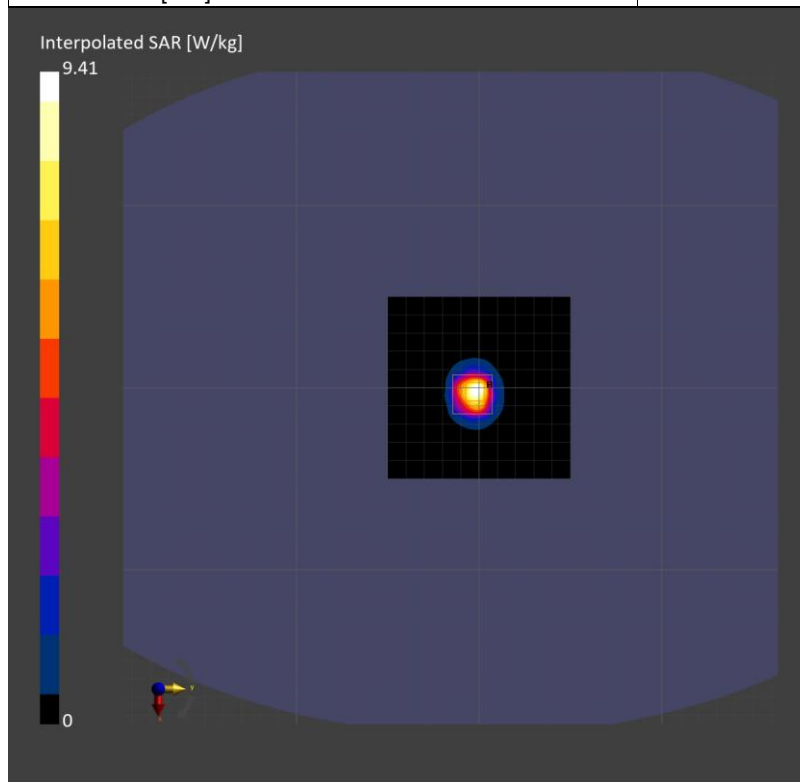
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-13	2025-11-13
psSAR1g [W/kg]	6.60	7.87
psSAR8g [W/kg]	2.35	2.57
psSAR10g [W/kg]	2.03	2.18
Power Drift [dB]	-0.09	0.01
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		7.4



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13 APPENDIXES

Refer to separated files for the following appendixes.

13.1 SAR_Appendix A Photographs

13.2 SAR_Appendix B DAE & Probe Cal. Certificate

13.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

13.4 SAR_Appendix D Dipole Extended Calibration Verification

- End of report -

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