

RF Exposure report



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

Product Name	Smartwatch
Brand Name	Gabb
Model No.	GW4
Applicant	FIH CO., LTD. No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	RYQGW4
Date of EUT Receipt	Apr. 11, 2025
Date of Test(s)	May 21, 2025 ~ May 23, 2025, Dec. 15, 2025 ~ Dec. 19, 2025
Date of Issue	Jan. 19, 2026

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
TESA2504000325E5	00	Initial creation of document	Dec. 30, 2025	Kimmy Chiou	
TESA2504000325E5	01	Modify memory model no.	Jan. 19, 2026	Kimmy Chiou	*

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. 2nd Battery(UTL)+ LONGSYS 64G spot check.
3. 3rd Battery (VDL) + Kingston 64G spot check, please see as below

Item	Brand Name	Model no.	Spec.
Battery	SHENZHEN UTILITY ENERGY CO., LTD.	HE413	3.87V, 680mAh
	SHENZHEN UTILITY ENERGY CO., LTD.	HE413	3.87V, 680mAh
	VDL	542831PN5	3.87V, 680mAh
Memory	LONGSYS	FAPEA3216-58C2930	32GB
		FAPEA6416-A3N1130	64GB
	Kingston	32EP16-M4MTC2W-GA68-R	32GB
		64EP16-M4MTB9W-GB03	64GB

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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

KDB 447498D01v06

KDB 865664D01v01r04

KDB 865664D02v01r02

KDB 941225D05v02r05

KDB 248227D01v02r02

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1.2 Description of EUT

EUT Description	Smartwatch	
Brand Name	Gabb	
Model No.	GW4	
Duty Cycle	WCDMA	1
	LTE FDD	1
	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	LTE FDD Band 4	1710-1755
	LTE FDD Band 13	777-787
	802.11 b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Next to mouth

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
LTE Band 4	0.85
2.4G WLAN	0.22
Bluetooth(GFSK)	0.00

Limb

Summary of Maximum SAR Value	
Mode	Highest SAR 10g (W/kg)
LTE Band 4	1.17
2.4G WLAN	0.20
Bluetooth(GFSK)	0.00

1.4 Antenna Information

WWAN

Vendor	HINGE INTERNATIONAL CO.LTD	
Frequency(MHz)	13	4
	777~787	1710~1755
Peak Gain (dBi)	-6.60	-2.10

WLAN

Vendor	HINGE INTERNATIONAL CO.LTD	
Frequency(MHz)	2400~2500	
Peak Gain (dBi)	2.00	

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	Stella Chang	Bond Tsai	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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Block Diagram (DASY8)

Phantom

TSL

SAR Probe

DAE

EOC

Robot

D = Spacing

DUT

ANT

MAIA

BSS

DASY Computer

Measurement server

Robot Server

- 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 750/1750/2450 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	

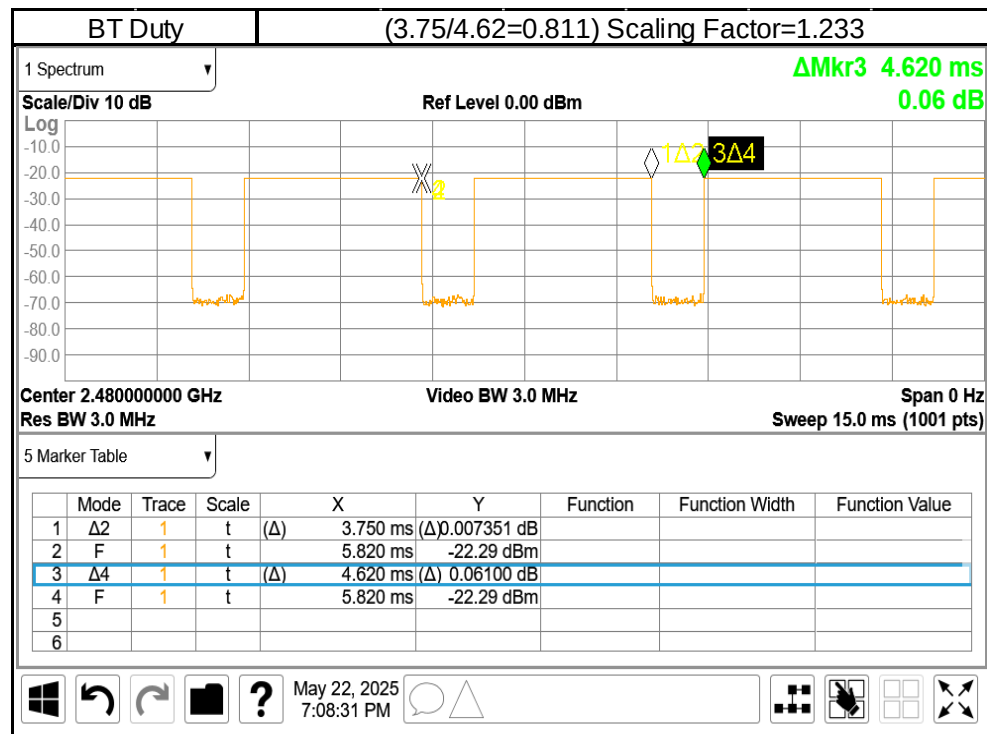
DEVICE HOLDER

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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3 DUTY CYCLE

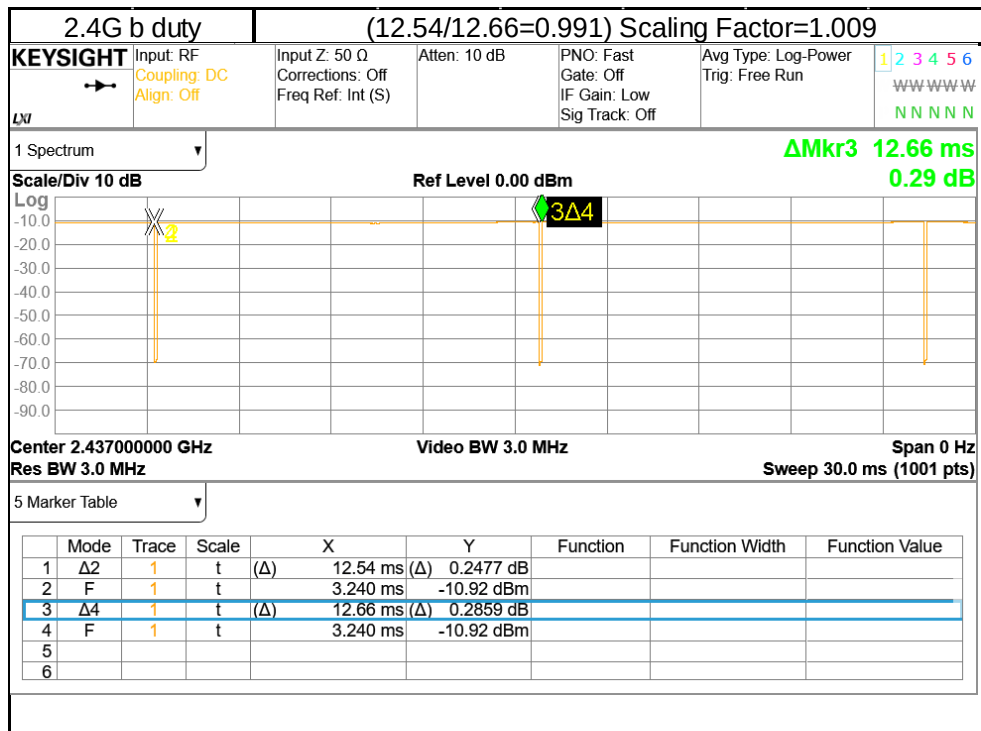
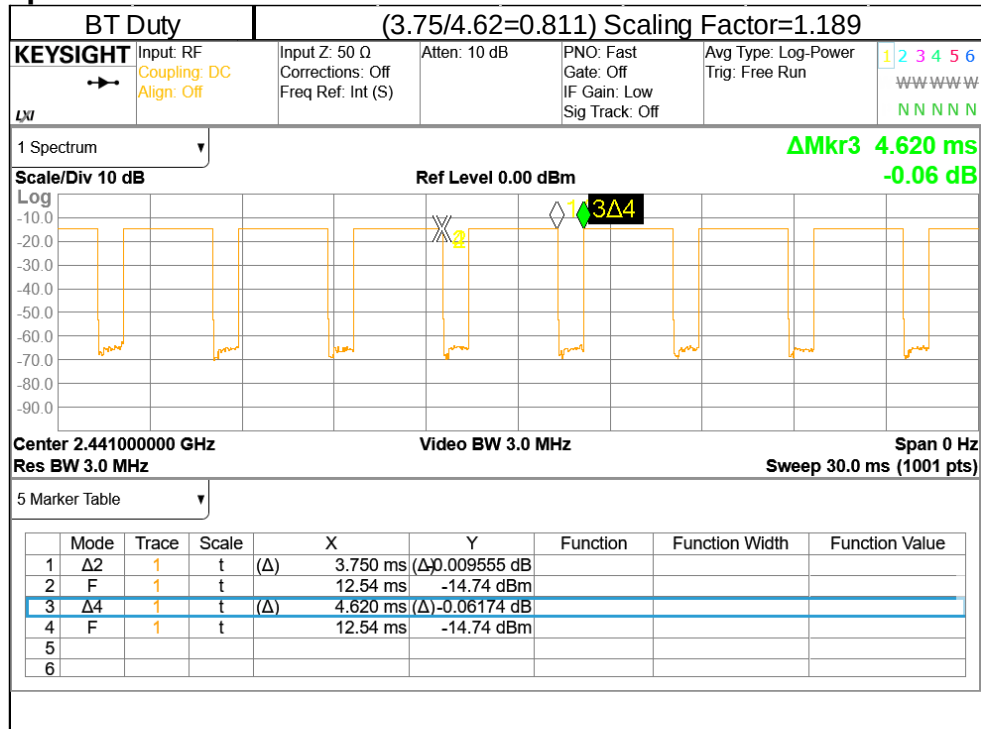


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spot check 2nd and 3rd



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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.

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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
750	41.90	0.89	41.560	0.880	-0.81%	-1.12%	± 5%	May. 22, 2025
782	41.75	0.89	41.390	0.888	-0.86%	-0.64%	± 5%	
1720	40.13	1.35	39.741	1.358	-0.96%	0.32%	± 5%	
1732.5	40.12	1.36	39.721	1.366	-0.98%	0.41%	± 5%	
1745	40.10	1.37	39.702	1.373	-1.00%	0.42%	± 5%	
1750	40.10	1.37	39.694	1.376	-1.01%	0.44%	± 5%	
2402	39.30	1.76	38.900	1.779	-1.01%	1.17%	± 5%	May. 23, 2025
2412	39.28	1.77	38.883	1.787	-1.00%	1.13%	± 5%	
2437	39.23	1.79	38.838	1.809	-0.99%	1.13%	± 5%	
2441	39.22	1.79	38.831	1.812	-0.99%	1.10%	± 5%	
2450	39.20	1.80	38.815	1.820	-0.98%	1.11%	± 5%	
2462	39.18	1.81	38.800	1.831	-0.98%	1.00%	± 5%	
2480	39.16	1.83	38.777	1.847	-0.98%	0.82%	± 5%	

spot check 2nd and 3rd

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
750	41.900	0.890	42.852	0.914	2.27%	2.70%	± 5%	Dec. 16, 2025
782	41.749	0.894	42.685	0.918	2.24%	2.71%	± 5%	
1720	40.127	1.354	41.036	1.403	2.26%	3.65%	± 5%	
1732.5	40.116	1.360	41.016	1.411	2.24%	3.72%	± 5%	
1745	40.105	1.367	40.997	1.418	2.23%	3.71%	± 5%	
1750	40.100	1.370	40.989	1.421	2.22%	3.72%	± 5%	
2402	39.296	1.758	40.195	1.837	2.29%	4.47%	± 5%	
2412	39.276	1.767	40.178	1.846	2.30%	4.47%	± 5%	
2437	39.226	1.789	40.133	1.868	2.31%	4.43%	± 5%	
2441	39.218	1.792	40.126	1.872	2.32%	4.45%	± 5%	
2450	39.200	1.800	40.110	1.880	2.32%	4.44%	± 5%	
2462	39.184	1.813	40.095	1.891	2.32%	4.31%	± 5%	
2480	39.160	1.832	40.072	1.907	2.33%	4.09%	± 5%	

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4.4 The composition of the tissue simulating liquid:

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

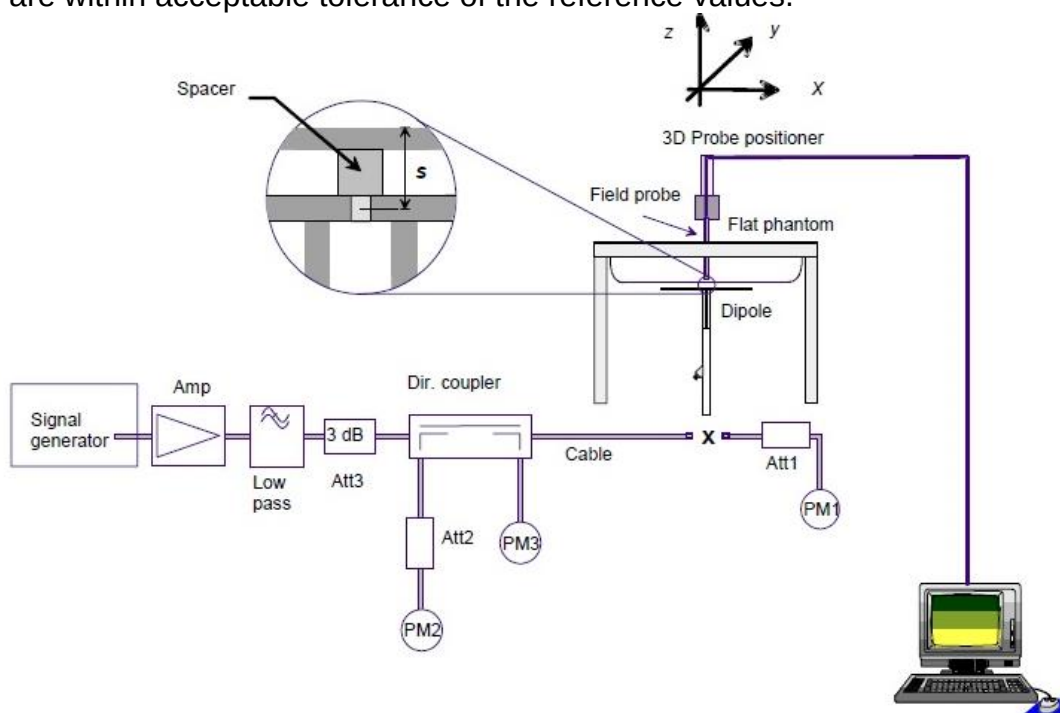
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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

Body

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
D750V3	1015	750	8.51	2.05	8.2	-3.64	± 10%	May.22,2025
D1750V2	1158	1750	36.3	8.77	35.08	-3.36	± 10%	May.22,2025
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	13.2	52.8	0.38	± 10%	May.23,2025

Limb

Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=250mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	5.68	1.36	5.44	-4.23	± 10%	May.22,2025
D1750V2	1158	1750	19.6	4.75	19	-3.06	± 10%	May.22,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=250mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	24.7	6.27	25.08	1.54	± 10%	May.23,2025

spot check 2nd and 3rd

Body

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
D750V3	1015	750	8.54	2.28	9.12	6.79	± 10%	Dec.16,2025
D1750V2	1008	1750	36.4	8.76	35.04	-3.74	± 10%	Dec.16,2025
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	13.5	54	2.66	± 10%	Dec.16,2025

Limb

Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=250mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	5.72	1.52	6.08	6.29	± 10%	Dec.16,2025
D1750V2	1008	1750	19.6	4.73	18.92	-3.47	± 10%	Dec.16,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=250mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	24.7	6.38	25.52	3.32	± 10%	Dec.16,2025

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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 $\leq 100\text{ MHz}$.
 - **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8\text{ W/kg}$, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
 - **LTE:** LTE modes test according to **KDB 941225D05v02r05**.
- a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is $\leq 0.8\text{ W/kg}$, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
 - When the reported SAR of a required test channel is $> 1.45\text{ W/kg}$, SAR is required for all three RB offset configurations for that required test channel.
- b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
- For QPSK with 100% RB allocation, SAR is not required when the highest

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maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.

- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

e. Per Section 5.3, other channel bandwidth standalone SAR test requirements

- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

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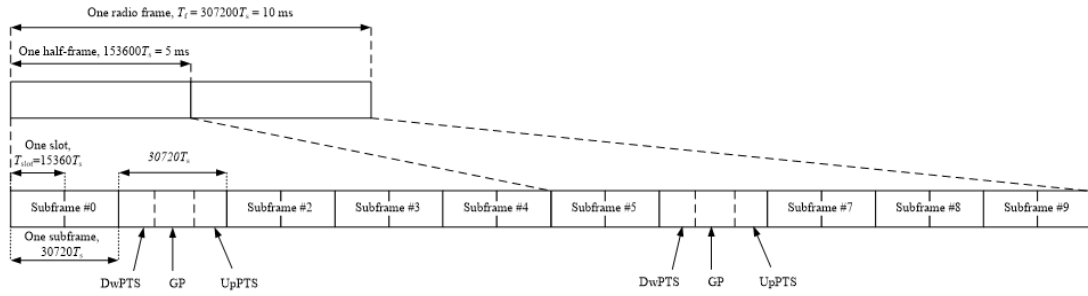


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

- **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 ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR

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is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 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 ≤ 1.2 W/kg.

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5.3 Test position

Next to mouth (10mm)

Next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The wrist bands should be strapped together to represent normal use conditions.

Wrist exposure (0mm)

SAR for wrist exposure is evaluated with the back of the device positioned in direct contact against a flat phantom. The wrist bands should be unstrapped and touching the phantom.

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5.4 Test limit

§ 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

§ 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

§ 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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6 MAXIMUM OUTPUT POWER

6.1 FDD LTE

LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1732.5	1745		
Channel				20050	20175	20300		
20	QPSK	1	0	20.88	20.66	20.97	21.00	0
		1	50	20.76	20.46	20.95	21.00	0
		1	99	20.69	20.50	20.92	21.00	0
		50	0	19.86	19.53	19.97	20.00	1
		50	25	19.86	19.53	19.96	20.00	1
		50	50	19.85	19.65	19.92	20.00	1
		100	0	19.89	19.95	19.92	20.00	1
20	16-QAM	1	0	19.92	19.93	19.96	20.00	1
20	64-QAM	1	0	18.90	18.86	18.81	19.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	20.80	20.49	20.78	21.00	0
		1	36	20.71	20.50	20.89	21.00	0
		1	74	20.73	20.54	20.86	21.00	0
		36	0	19.69	19.50	19.87	20.00	1
		36	18	19.77	19.46	19.92	20.00	1
		36	37	19.68	19.63	19.86	20.00	1
		75	0	19.79	19.62	19.96	20.00	1
15	16-QAM	1	0	19.88	19.92	19.96	20.00	1
15	64-QAM	1	0	18.98	18.99	18.91	19.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	20.84	20.56	20.91	21.00	0
		1	25	20.85	20.60	20.92	21.00	0
		1	49	20.80	20.62	20.89	21.00	0
		25	0	19.75	19.46	19.82	20.00	1
		25	12	19.68	19.52	19.83	20.00	1
		25	25	19.77	19.58	19.81	20.00	1
		50	0	19.85	19.47	19.78	20.00	1
10	16-QAM	1	0	19.93	19.87	19.91	20.00	1
10	64-QAM	1	0	18.95	18.92	18.91	19.00	2

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	20.84	20.47	20.93	21.00	0
		1	12	20.80	20.46	20.93	21.00	0
		1	24	20.85	20.62	20.92	21.00	0
		12	0	19.69	19.43	19.90	20.00	1
		12	6	19.77	19.46	19.76	20.00	1
		12	13	19.71	19.47	19.77	20.00	1
		25	0	19.75	19.48	19.81	20.00	1
5	16-QAM	1	0	19.95	19.90	19.97	20.00	1
5	64-QAM	1	0	18.86	18.98	18.82	19.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	20.74	20.59	20.87	21.00	0
		1	7	20.67	20.61	20.91	21.00	0
		1	14	20.65	20.43	20.88	21.00	0
		8	0	19.81	19.44	19.78	20.00	1
		8	4	19.82	19.60	19.74	20.00	1
		8	7	19.82	19.46	19.82	20.00	1
		15	0	19.74	19.50	19.92	20.00	1
3	16-QAM	1	0	19.91	19.93	19.95	20.00	1
3	64-QAM	1	0	18.88	18.96	18.85	19.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	20.70	20.61	20.93	21.00	0
		1	2	20.82	20.56	20.78	21.00	0
		1	5	20.69	20.58	20.75	21.00	0
		3	0	20.65	20.61	20.80	21.00	0
		3	2	20.69	20.50	20.78	21.00	0
		3	3	20.78	20.53	20.78	21.00	0
		6	0	19.83	19.49	19.91	20.00	1
1.4	16-QAM	1	0	19.88	19.89	19.93	20.00	1
1.4	64-QAM	1	0	18.96	18.85	18.96	19.00	2

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					782			
Channel					23230			
10	QPSK	1	0		22.98		23.00	0
		1	25		22.94		23.00	0
		1	49		22.93		23.00	0
		25	0		21.82		22.00	1
		25	12		21.89		22.00	1
		25	25		21.92		22.00	1
		50	0		21.97		22.00	1
10	16-QAM	1	0		21.85		22.00	1
10	64-QAM	1	0		20.98		21.00	2
LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				779.5	782	784.5		
Channel				23205	23230	23255		
5	QPSK	1	0	22.88	22.90	22.86	23.00	0
		1	12	22.89	22.90	22.92	23.00	0
		1	24	22.83	22.84	22.97	23.00	0
		12	0	21.92	21.90	22.00	22.00	1
		12	6	21.99	21.82	21.85	22.00	1
		12	13	21.86	21.96	21.95	22.00	1
		25	0	21.92	21.95	21.87	22.00	1
5	16-QAM	1	0	21.93	21.89	21.96	22.00	1
5	64-QAM	1	0	20.83	20.93	20.94	21.00	2

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6.2 WLAN

Ant 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.50	14.34
		6	2437		14.50	14.29
		11	2462		14.50	14.45
	802.11g	1	2412	6Mbps	13.00	12.76
		6	2437		13.00	12.72
		11	2462		13.00	12.96
	802.11n20-HT0	1	2412	MCS0	11.00	10.87
		6	2437		11.00	10.70
		11	2462		11.00	10.92
	802.11n40-HT0	3	2422	MCS0	11.00	10.99
		6	2437		11.00	10.66
		9	2452		11.00	10.98

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6.3 Bluetooth

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	0.00	-1.67	0.00	-3.09	0.00	-2.99
	CH 39	2441		-1.84		-3.28		-3.24
	CH 78	2480		-0.18		-1.64		-1.55

6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	0	-1.90
	CH 19	2440		-2.59
	CH 39	2480		-0.59
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	0	-1.94
	CH 19	2440		-2.64
	CH 39	2480		-0.62

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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

Next to mouth

Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1	0	Front Surface	10	20050	1720	21.00	20.88	102.80%	0.782	0.804	-
LTE Band 4			1	0	Front Surface	10	20175	1732.5	21.00	20.66	108.14%	0.758	0.820	-
LTE Band 4			1	0	Back Surface	10	20300	1745	21.00	20.97	100.69%	0.840	0.846	001
LTE Band 4			1	0	Front Surface*	10	20300	1745	21.00	20.97	100.69%	0.742	0.747	009
LTE Band 4			1	0	Front Surface**	10	20300	1745	21.00	20.97	100.69%	0.772	0.777	010
LTE Band 13	10MHz	QPSK	1	0	Front Surface	10	23230	782	23.00	22.98	100.46%	0.570	0.573	002
LTE Band 13			1	0	Front Surface*	10	23230	782	23.00	22.98	100.46%	0.537	0.539	011
LTE Band 13			1	0	Front Surface**	10	23230	782	23.00	22.98	100.46%	0.567	0.570	012

Limb

Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 10g (W/kg)		ID
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1	0	Back Surface	0	20050	1720	21.00	20.88	102.80%	1.090	1.121	-
LTE Band 4			1	0	Back Surface	0	20175	1732.5	21.00	20.66	108.14%	1.070	1.157	-
LTE Band 4			1	0	Back Surface	0	20300	1745	21.00	20.97	100.69%	1.160	1.168	003
LTE Band 4			1	0	Back Surface*	0	20300	1745	21.00	20.97	100.69%	0.903	0.909	013
LTE Band 4			1	0	Back Surface**	0	20300	1745	21.00	20.97	100.69%	0.921	0.927	014
LTE Band 13	10MHz	QPSK	1	0	Back Surface	0	23230	782	23.00	22.98	100.46%	0.997	1.002	004
LTE Band 13			1	0	Back Surface*	0	23230	782	23.00	22.98	100.46%	0.905	0.909	015
LTE Band 13			1	0	Back Surface**	0	23230	782	23.00	22.98	100.46%	0.957	0.961	016

Next to mouth

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 1	Front Surface	10	1	2412	14.50	14.34	1.01	103.75%	0.096	0.101	-
WLAN 802.11b	Ant 1	Front Surface	10	6	2437	14.50	14.29	1.01	104.95%	0.185	0.196	-
WLAN 802.11b	Ant 1	Front Surface	10	11	2462	14.50	14.45	1.01	101.16%	0.216	0.221	005
WLAN 802.11b	Ant 1	Front Surface*	10	11	2462	14.50	14.45	1.01	101.16%	0.203	0.208	017
WLAN 802.11b	Ant 1	Front Surface**	10	11	2462	14.50	14.45	1.01	101.16%	0.165	0.169	018
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 1	Front Surface	10	00	2402	0.00	-1.67	1.23	146.89%	0.001	0.002	-
Bluetooth(GFSK)	Ant 1	Front Surface	10	39	2441	0.00	-1.84	1.23	152.76%	0.001	0.002	-
Bluetooth(GFSK)	Ant 1	Front Surface	10	78	2480	0.00	-0.18	1.23	104.23%	0.002	0.003	006
Bluetooth(GFSK)	Ant 1	Front Surface*	10	78	2480	0.00	-0.18	1.23	104.23%	0.001	0.001	019
Bluetooth(GFSK)	Ant 1	Front Surface**	10	78	2480	0.00	-0.18	1.23	104.23%	0.001	0.001	020

Limb

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 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant 1	Back Surface	0	1	2412	14.50	14.34	1.01	103.75%	0.128	0.134	-
WLAN 802.11b	Ant 1	Back Surface	0	6	2437	14.50	14.29	1.01	104.95%	0.161	0.171	-
WLAN 802.11b	Ant 1	Back Surface	0	11	2462	14.50	14.45	1.01	101.16%	0.194	0.199	007
WLAN 802.11b	Ant 1	Back Surface*	0	11	2462	14.50	14.45	1.01	101.16%	0.175	0.179	021
WLAN 802.11b	Ant 1	Back Surface**	0	11	2462	14.50	14.45	1.01	101.16%	0.132	0.135	022
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 10g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Ant 1	Back Surface	0	00	2402	0.00	-1.67	1.23	146.89%	0.001	0.002	-
Bluetooth(GFSK)	Ant 1	Back Surface	0	39	2441	0.00	-1.84	1.23	152.76%	0.001	0.002	-
Bluetooth(GFSK)	Ant 1	Back Surface	0	78	2480	0.00	-0.18	1.23	104.23%	0.002	0.003	008
Bluetooth(GFSK)	Ant 1	Back Surface*	0	78	2480	0.00	-0.18	1.23	104.23%	0.001	0.001	023
Bluetooth(GFSK)	Ant 1	Back Surface**	0	78	2480	0.00	-0.18	1.23	104.23%	0.001	0.001	024

Note: * - Spot Check 2nd

Note: ** - Spot Check 3rd

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Note:

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

Reported APD = measured APD * 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
WWAN+WLAN
WWAN+BT

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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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Simultaneous Transmission Combination

Next to mouth

			FCC Reported SAR			Scenario 1	Scenario 2
	Exposure Position		1	2	6	1+2	1+6
			WWAN	2.4GHz WLAN Ant 1	Bluetooth Ant 1	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 4	Front Surface	10	0.846	0.221	0.003	1.067	0.849
LTE Band 13	Front Surface	10	0.573	0.221	0.003	0.794	0.576

Limb

			FCC Reported SAR			Scenario 1	Scenario 2
	Exposure Position		1	2	6	1+2	1+6
			WWAN	2.4GHz WLAN Ant 1	Bluetooth Ant 1	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 4	Back Surface	0	1.168	0.199	0.003	1.367	1.171
LTE Band 13	Back Surface	0	1.002	0.199	0.003	1.201	1.005

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	D750V3	1015	Sep/27/2024	Sep/26/2025
SPEAG	System Validation Dipole	D1750V2	1158	Aug/20/2024	Aug/19/2027
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
Agilent	MXG Analog Signal Generator	N5181A	MY50145142	Dec/20/2024	Dec/19/2025
Keysight	EXA Signal Analyzer	N9010B	MY63440390	Feb/13/2025	Feb/12/2026
Agilent	Dual-directional coupler	772D	MY46151258	Sep/30/2024	Sep/29/2025
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025
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 Meter	NRX	105651	Nov/11/2024	Nov/10/2025
R&S	Power Sensor	NRP6A	104247	Nov/11/2024	Nov/10/2025
R&S	Power Sensor	NRP6A	104246	Nov/11/2024	Nov/10/2025
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	Dec/26/2024	Dec/25/2025
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/14/2024	Oct/13/2025

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Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1260	Sep/28/2025	Sep/27/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Feb/19/2025	Feb/18/2026
SPEAG	System Validation Dipole	D750V3	1015	Sep/26/2025	Sep/25/2026
SPEAG	System Validation Dipole	D1750V2	1008	Sep/28/2025	Sep/27/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
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	MY52180142	Nov/13/2025	Nov/12/2026
Agilent	Dual-directional coupler	778D	MY52180302	Nov/13/2025	Nov/12/2026
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	Feb/21/2025	Feb/20/2026
R&S	Power Meter	NRX	102191	Feb/21/2025	Feb/20/2026
R&S	Power Sensor	NRP18S	109065	Sep/05/2025	Sep/04/2026
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
Anritsu	Radio Communication Test	MT8820C	6201061014	Sep/04/2025	Sep/03/2026
LKM	Digital thermometer	DTM3000	EC14010603	Nov/25/2025	Nov/24/2026
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 (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	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 shell	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.)	1.01%	N	1	1	0.64	0.43	0.65%	0.43%	M
Liquid Conductivity (mea.)	1.17%	N	1	1	0.6	0.49	0.70%	0.57%	M
Combined standard uncertainty		RSS					11.46%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.91%	22.86%	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. : TESA2504000325E5

Measurement Report_LTE Band 4 (20MHz)_Body_Front Surface_CH 20300_QPSK_1-0_10mm

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	1745.0, 20300	8.34	1.373	39.702

Hardware Setup

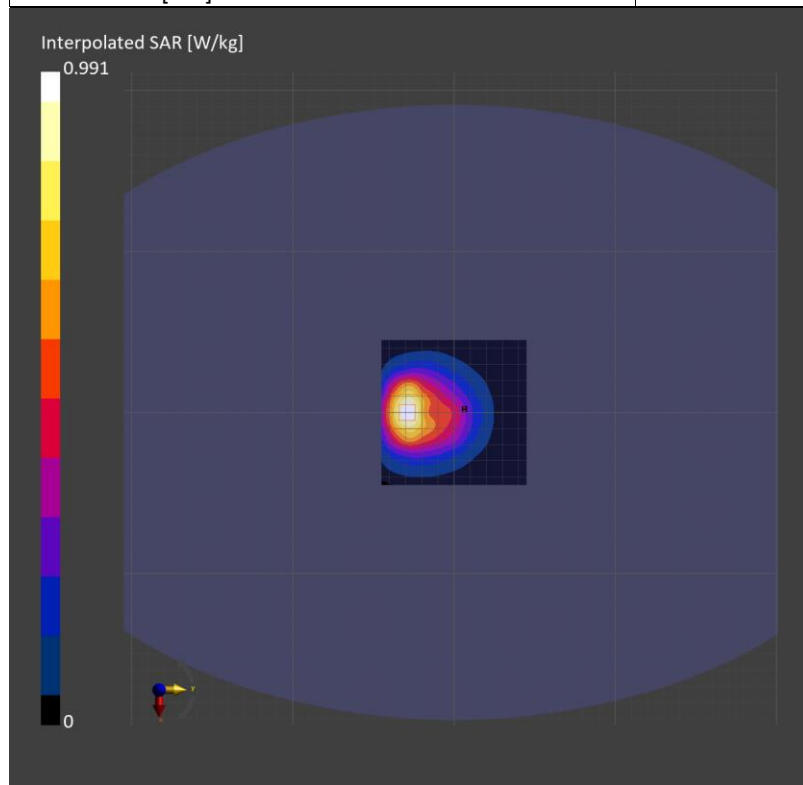
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-22	2025-05-22
psSAR1g [W/kg]	0.794	0.840
psSAR8g [W/kg]	0.486	0.514
psSAR10g [W/kg]	0.451	0.479
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		13.2



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ID: 002

Report No. : TESA2504000325E5

Measurement Report_LTE Band 13 (10MHz)_Body_Front Surface_CH 23230_QPSK_1-0_10mm

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	782.0, 23230	10.04	0.888	41.39

Hardware Setup

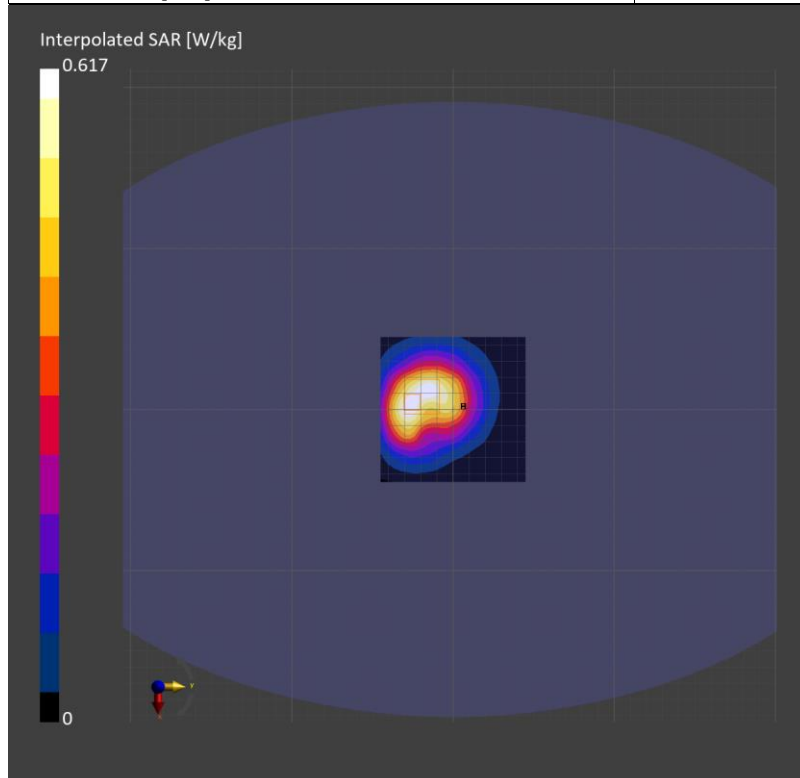
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-22	2025-05-22
psSAR1g [W/kg]	0.520	0.570
psSAR8g [W/kg]	0.369	0.349
psSAR10g [W/kg]	0.350	0.326
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		12.8



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ID: 003

Report No. : TESA2504000325E5

Measurement Report_LTE Band 4 (20MHz)_Limb_Back Surface_CH 20300_QPSK_1-0_0mm

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	1745.0, 20300	8.34	1.373	39.702

Hardware Setup

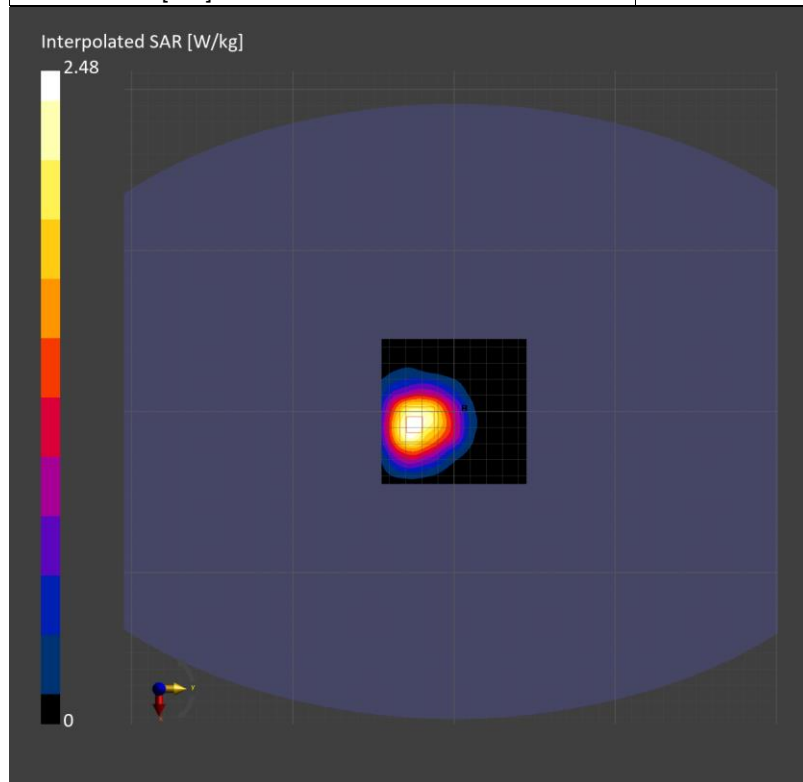
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-22	2025-05-22
psSAR1g [W/kg]	2.07	2.03
psSAR8g [W/kg]	1.31	1.25
psSAR10g [W/kg]	1.22	1.16
Power Drift [dB]	-0.03	-0.01
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		14.4



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ID: 004

Report No. : TESA2504000325E5

Measurement Report_LTE Band 13 (10MHz)_Limb_Back Surface_CH 23230_QPSK_1-0_0mm

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	782.0, 23230	10.04	0.888	41.39

Hardware Setup

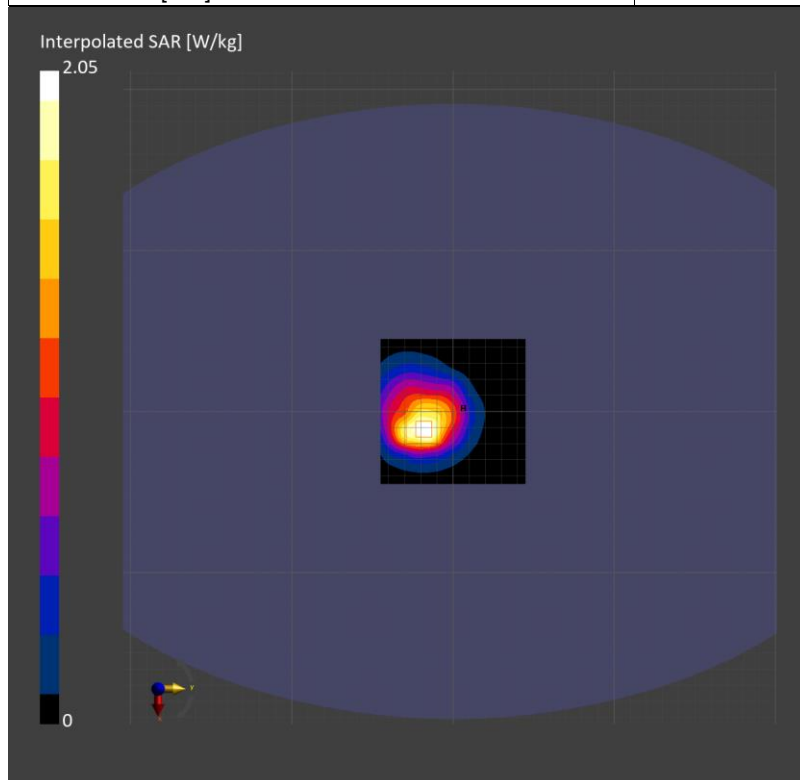
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-22	2025-05-22
psSAR1g [W/kg]	1.75	1.92
psSAR8g [W/kg]	1.17	1.08
psSAR10g [W/kg]	1.10	0.997
Power Drift [dB]	-0.05	-0.01
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		8.0



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ID: 005

Report No. : TESA2504000325E5

Measurement Report_WLAN 802.11b_Body_Front Surface_CH 11_10mm_Ant 1

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	2462.0, 11	7.6	1.831	38.8

Hardware Setup

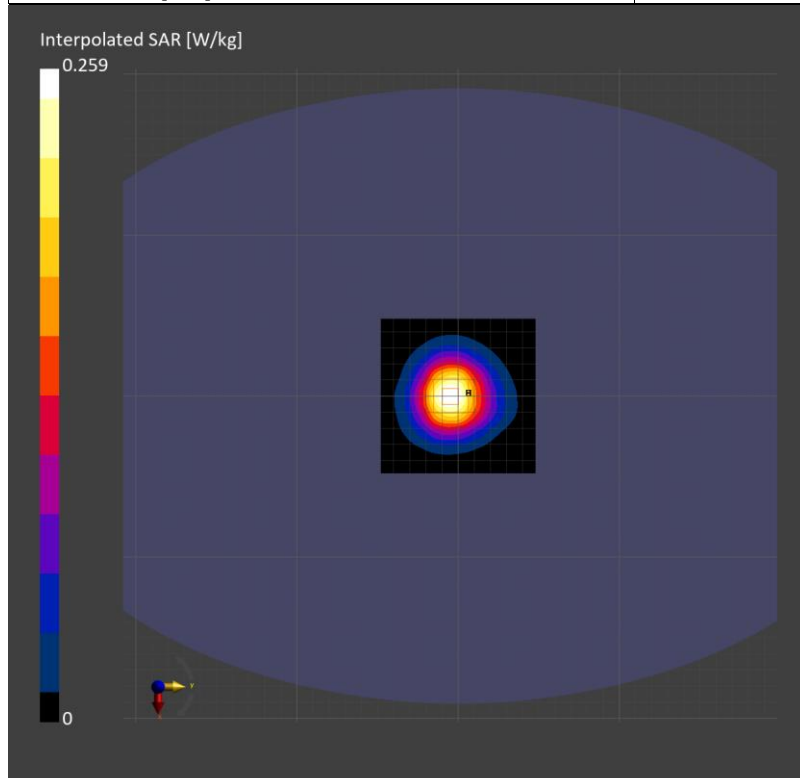
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

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	2025-05-23	2025-05-23
psSAR1g [W/kg]	0.211	0.216
psSAR8g [W/kg]	0.125	0.132
psSAR10g [W/kg]	0.115	0.122
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		17.1



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ID: 006

Report No. : TESA2504000325E5

Measurement Report_Bluetooth(GFSK)_Body_Front Surface_CH 78_10mm_Ant 1

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	2480.0, 78	7.6	1.847	38.777

Hardware Setup

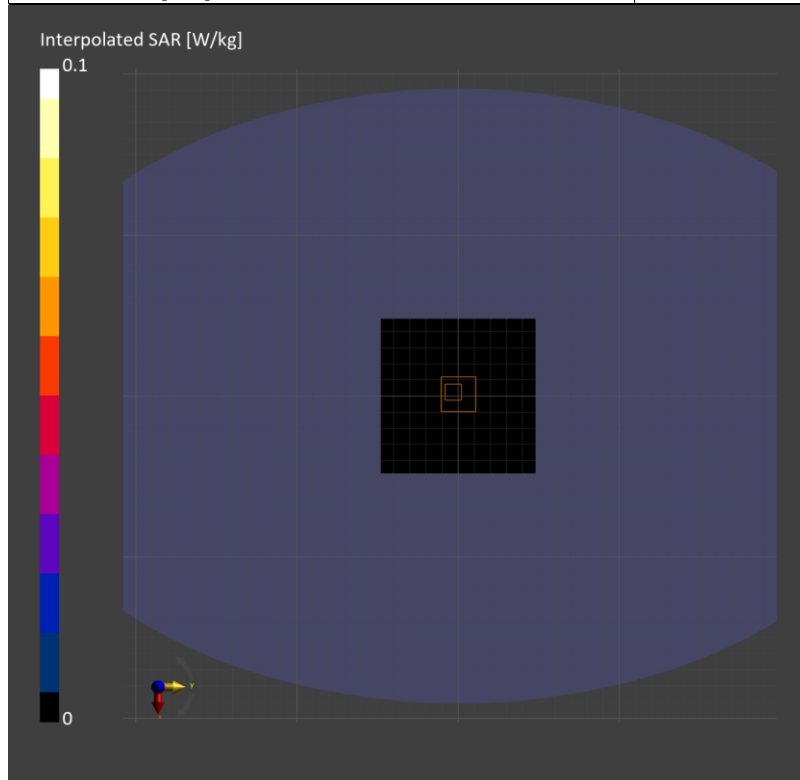
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

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	2025-05-23	2025-05-23
psSAR1g [W/kg]	0.003	0.002
psSAR8g [W/kg]	0.002	0.001
psSAR10g [W/kg]	0.002	0.001
Power Drift [dB]	-0.01	-0.05
M2/M1 [%]		77.6
Dist 3dB Peak [mm]		5.1



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ID: 007

Report No. : TESA2504000325E5

Measurement Report_WLAN 802.11b Limb Back Surface_CH 11_0mm_Ant1

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2462.0, 11	7.6	1.831	38.8

Hardware Setup

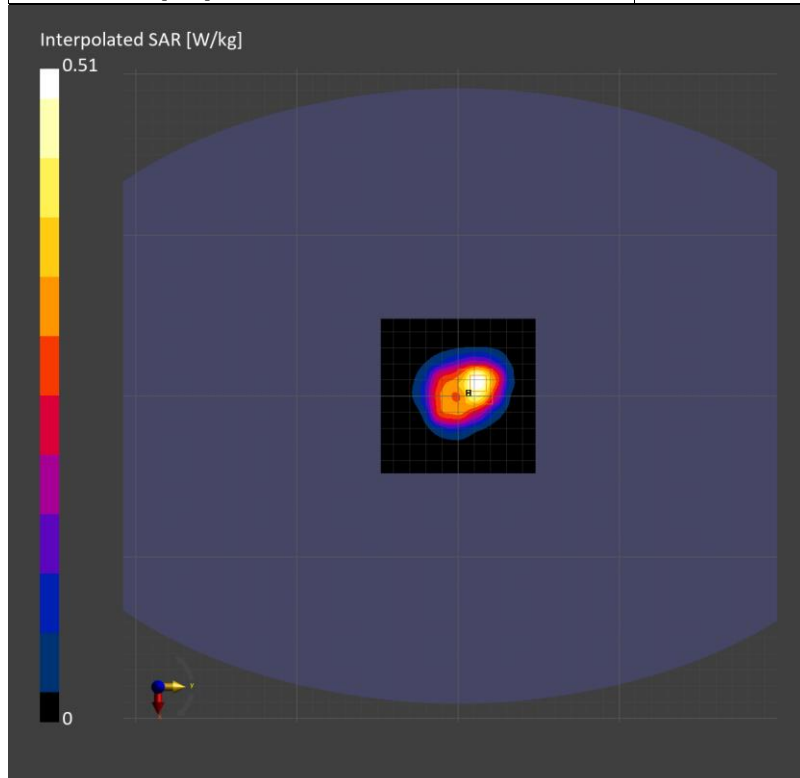
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

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	2025-05-23	2025-05-23
psSAR1g [W/kg]	0.398	0.504
psSAR8g [W/kg]	0.216	0.215
psSAR10g [W/kg]	0.198	0.194
Power Drift [dB]	-0.03	-0.04
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		7.1



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Member of SGS Group

ID: 008

Report No. : TESA2504000325E5

Measurement Report_Bluetooth(GFSK)_Limb_Back Surface_CH 78_0mm_Ant1

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2480.0, 78	7.6	1.847	38.777

Hardware Setup

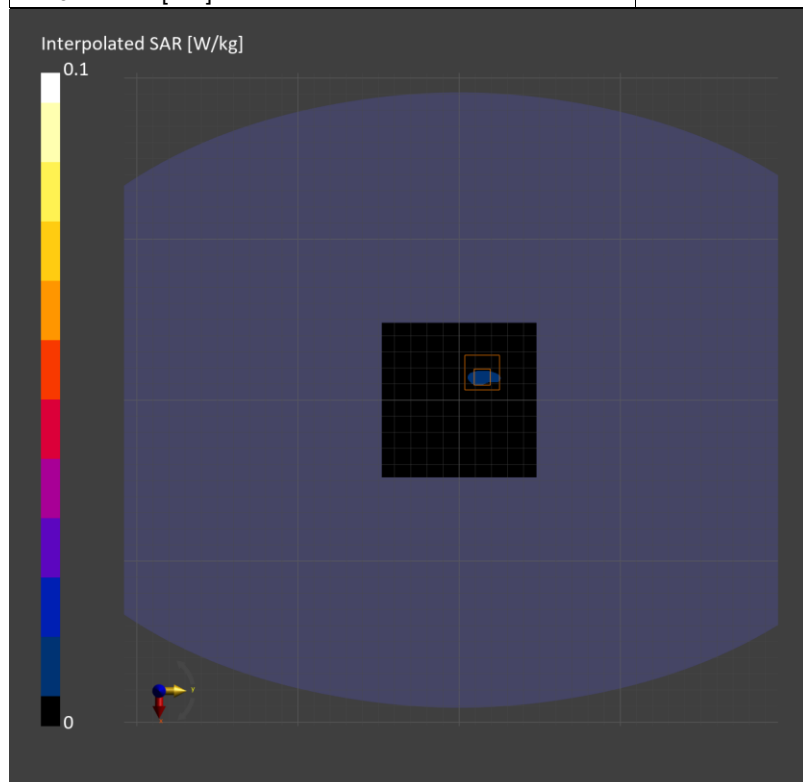
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

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	2025-05-23	2025-05-23
psSAR1g [W/kg]	0.009	0.008
psSAR8g [W/kg]	0.004	0.002
psSAR10g [W/kg]	0.003	0.002
Power Drift [dB]	0.06	0.06
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		9.0



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ID: 009

Report No. :TESA2504000325E5

Measurement Report_LTE Band 4 (20MHz)_Body_Front Surface_CH 20300_QPSK_1-0_10mm_SKU6

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	Front Surface, 10.00	1745.000, 20300	8.34	1.418	40.997

Hardware Setup

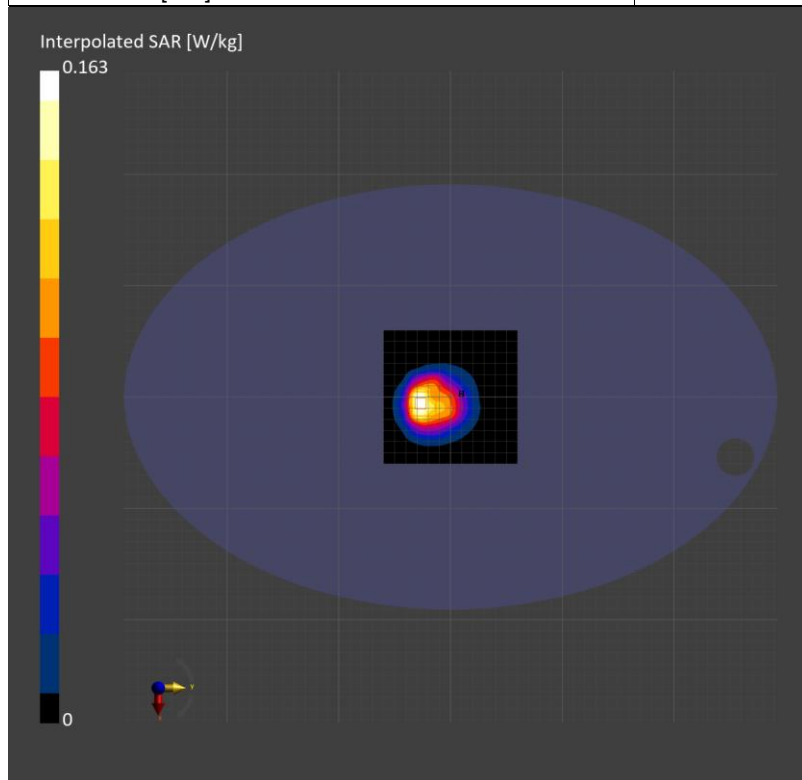
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.733	0.742
psSAR8g [W/kg]	0.482	0.486
psSAR10g [W/kg]	0.476	0.480
Power Drift [dB]	0.02	-0.02
M2/M1 [%]		58.2
Dist 3dB Peak [mm]		10.8



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ID: 010

Report No. :TESA2504000325E5

Measurement Report_LTE Band 4 (20MHz)_Body_Front Surface_CH 20300_QPSK_1-0_10mm_SKU8

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	Front Surface, 10.00	1745.000, 20300	8.34	1.418	40.997

Hardware Setup

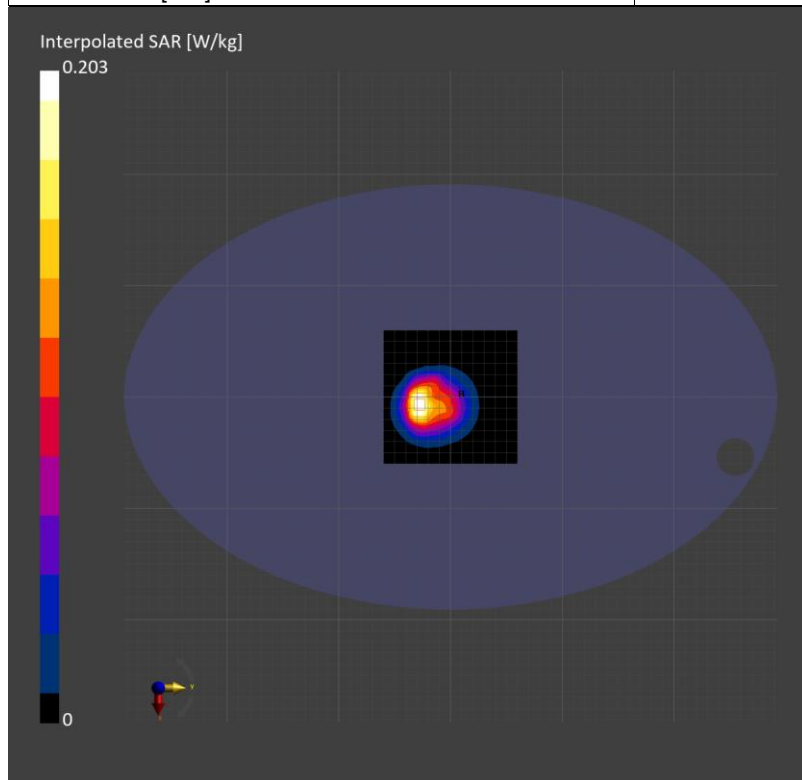
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.768	0.772
psSAR8g [W/kg]	0.402	0.404
psSAR10g [W/kg]	0.395	0.397
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		11.7



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ID: 011

Report No. :TESA2504000325E5

Measurement Report_LTE Band 13 (10MHz)_Body_Front Surface_CH 23230_QPSK_1-0_10mm_SKU6

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	Front Surface, 10.00	782.000, 23230	10.04	0.918	42.685

Hardware Setup

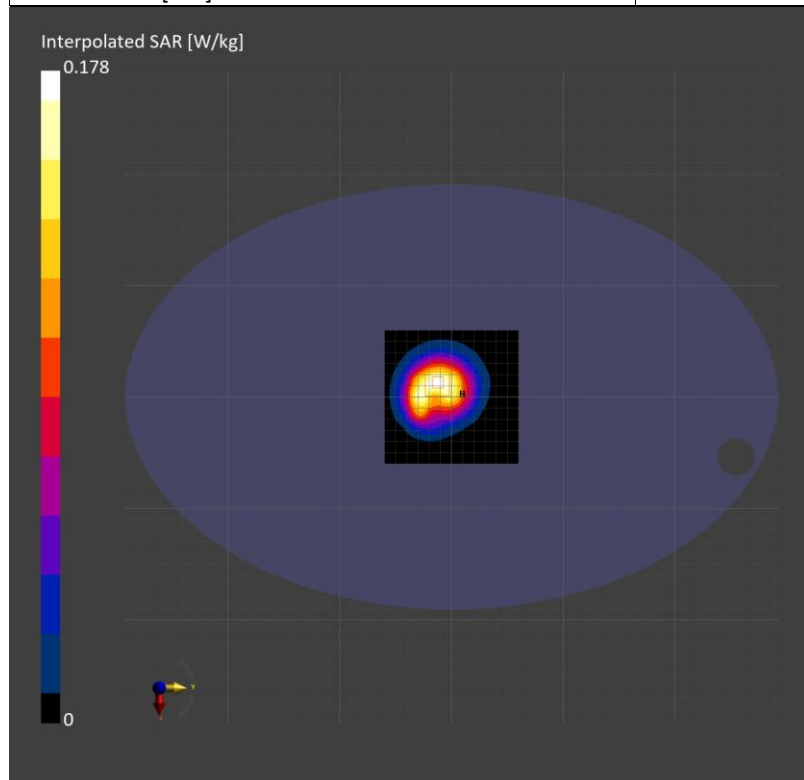
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.512	0.537
psSAR8g [W/kg]	0.333	0.352
psSAR10g [W/kg]	0.329	0.345
Power Drift [dB]	0.01	0.01
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		10.6



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ID: 012

Report No. :TESA2504000325E5

Measurement Report_LTE Band 13 (10MHz)_Body_Front Surface_CH 23230_QPSK_1-0_10mm_SKU8

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	Front Surface, 10.00	782.000, 23230	10.04	0.918	42.685

Hardware Setup

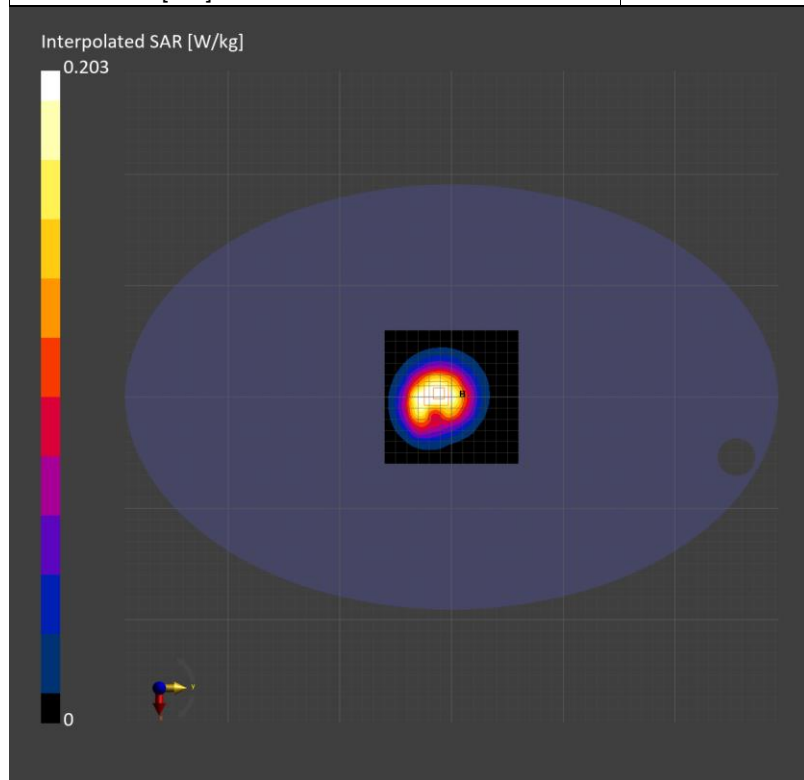
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.549	0.567
psSAR8g [W/kg]	0.308	0.313
psSAR10g [W/kg]	0.281	0.287
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		60.0
Dist 3dB Peak [mm]		13.8



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ID: 013

Report No. :TESA2504000325E5

Measurement Report_LTE Band 4 (20MHz)_Limb_Back Surface_CH 20300_QPSK_1-0_0mm_SKU6

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	Back Surface, 0.00	1745.000, 20300	8.34	1.418	40.997

Hardware Setup

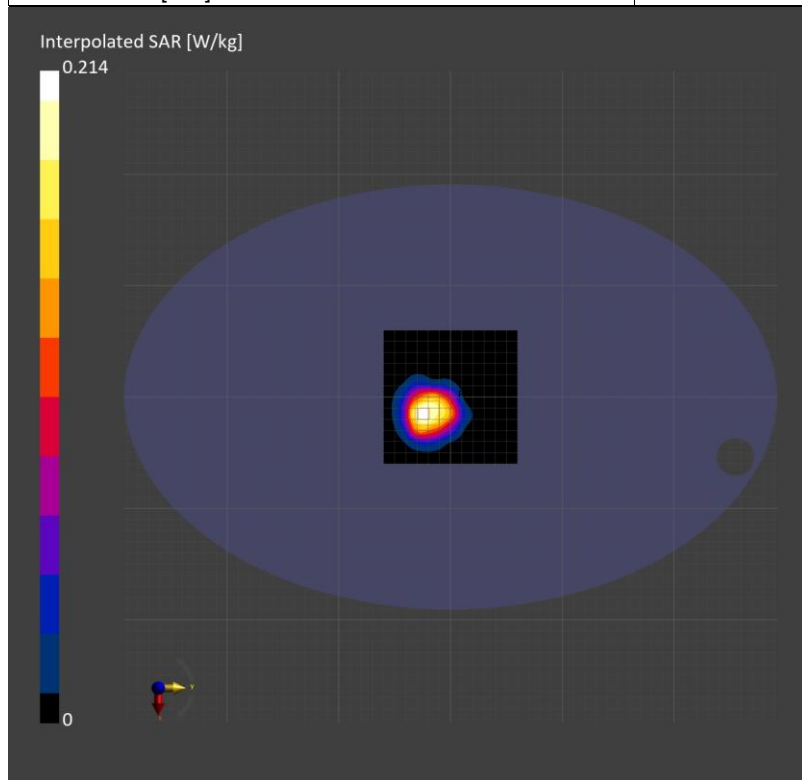
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	1.577	1.591
psSAR8g [W/kg]	0.968	0.991
psSAR10g [W/kg]	0.901	0.903
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		60.0
Dist 3dB Peak [mm]		12.2



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ID: 014

Report No. :TESA2504000325E5

Measurement Report_LTE Band 4 (20MHz)_Limb_Back Surface_CH 20300_QPSK_1-0_0mm_SKU8

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	Back Surface, 0.00	1745.000, 20300	8.34	1.418	40.997

Hardware Setup

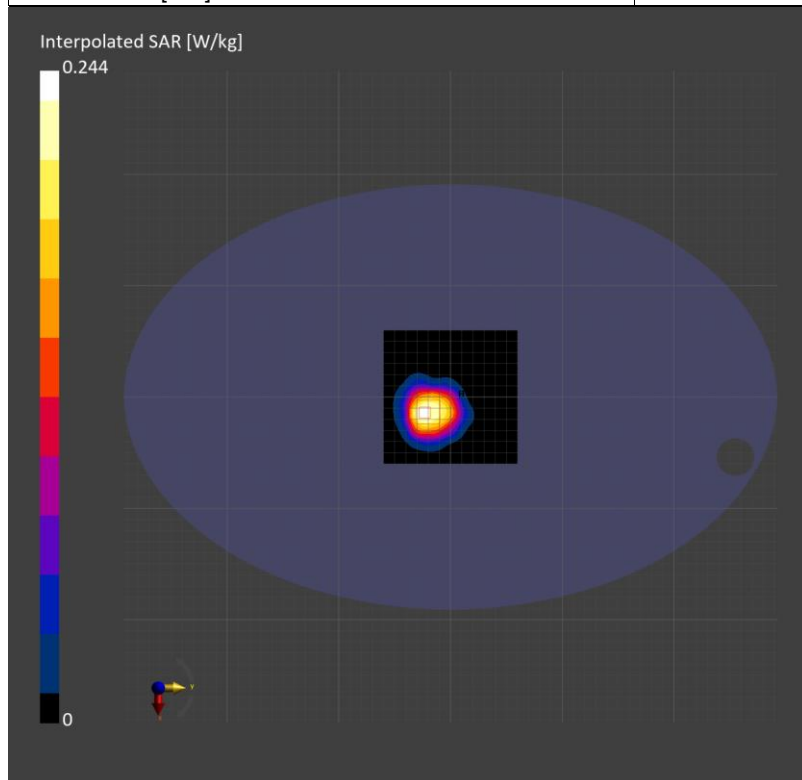
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	1.502	1.513
psSAR8g [W/kg]	0.989	0.999
psSAR10g [W/kg]	0.901	0.921
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		12.8



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ID: 015

Report No. :TESA2504000325E5

Measurement Report_LTE Band 13 (10MHz)_Limb_Back Surface_CH 23230_QPSK_1-0_0mm_SKU6

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	Back Surface, 0.00	782.000, 23230	10.04	0.918	42.685

Hardware Setup

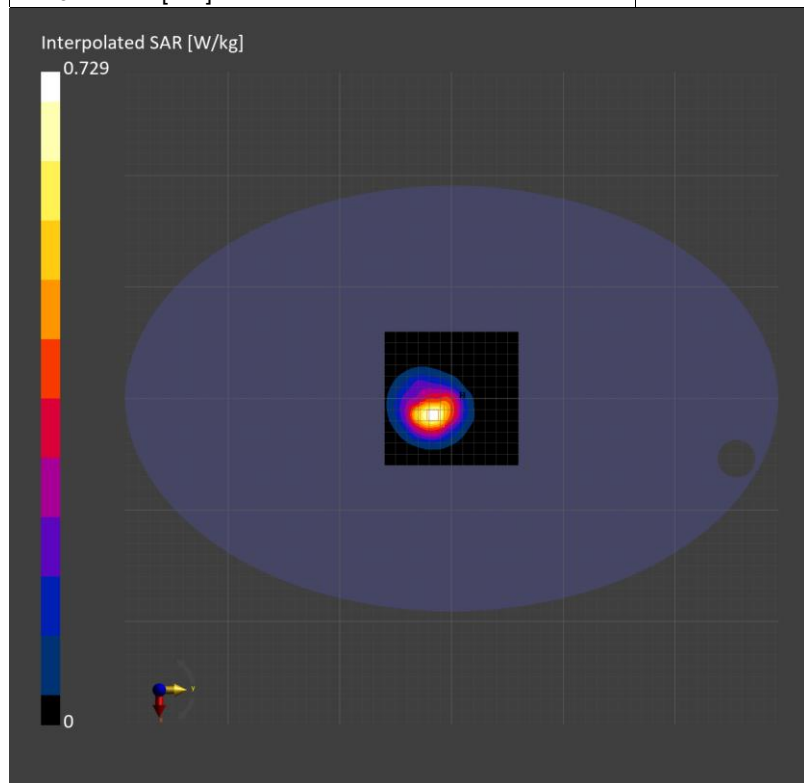
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	1.570	1.588
psSAR8g [W/kg]	0.969	0.993
psSAR10g [W/kg]	0.903	0.905
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		60.0
Dist 3dB Peak [mm]		9.4



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ID: 016

Report No. :TESA2504000325E5

Measurement Report_LTE Band 13 (10MHz)_Limb_Backt Surface_CH 23230_QPSK_1-0_0mm_SKU8

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	Back Surface, 0.00	782.000, 23230	10.04	0.918	42.685

Hardware Setup

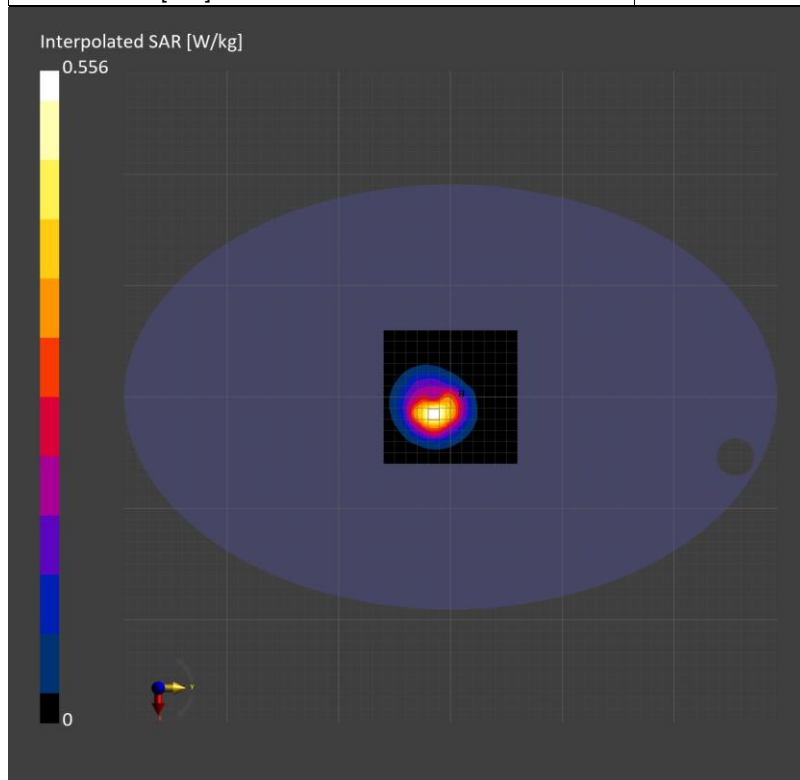
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	1.463	1.489
psSAR8g [W/kg]	0.965	0.988
psSAR10g [W/kg]	0.936	0.957
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		9.6



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ID: 017

Report No. :TESA2504000325E5

Measurement Report_WLAN 802.11b_Body_Front Surface_CH 11_10mm_Ant 1_SKU6

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	Front Surface, 10.00	2462.000, 11	7.6	1.891	40.095

Hardware Setup

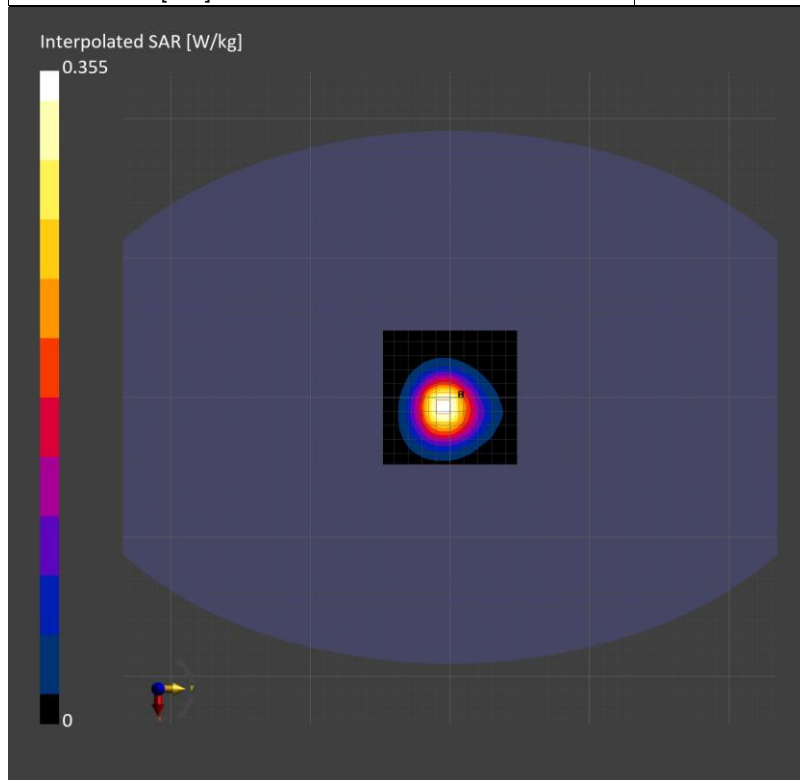
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.189	0.203
psSAR8g [W/kg]	0.070	0.086
psSAR10g [W/kg]	0.058	0.072
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		17.0



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ID: 018

Report No. :TESA2504000325E5

Measurement Report_WLAN 802.11b_Body_Front Surface_CH 11_10mm_Ant 1_SKU8

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	Front Surface, 10.00	2462.000, 11	7.6	1.891	40.095

Hardware Setup

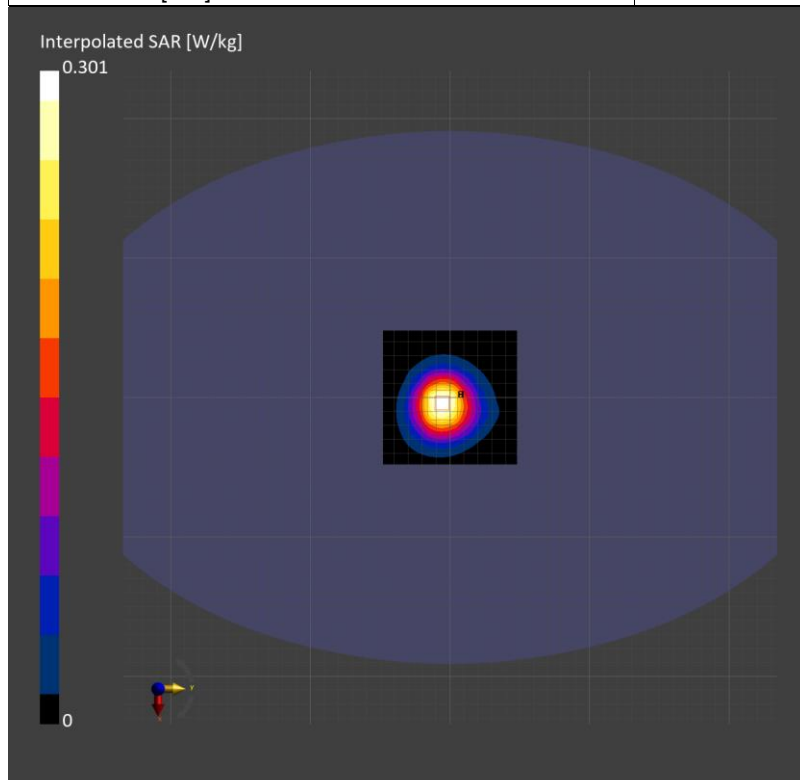
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.159	0.165
psSAR8g [W/kg]	0.052	0.062
psSAR10g [W/kg]	0.040	0.050
Power Drift [dB]	0.01	0.01
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		15.7



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ID: 019

Report No. :TESA2504000325E5

Measurement Report_Bluetooth(GFSK)_Body_Front Surface_CH 78_10mm_Ant 1_SKU6

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	Front Surface, 10.00	2480.000, 78	7.6	1.907	40.072

Hardware Setup

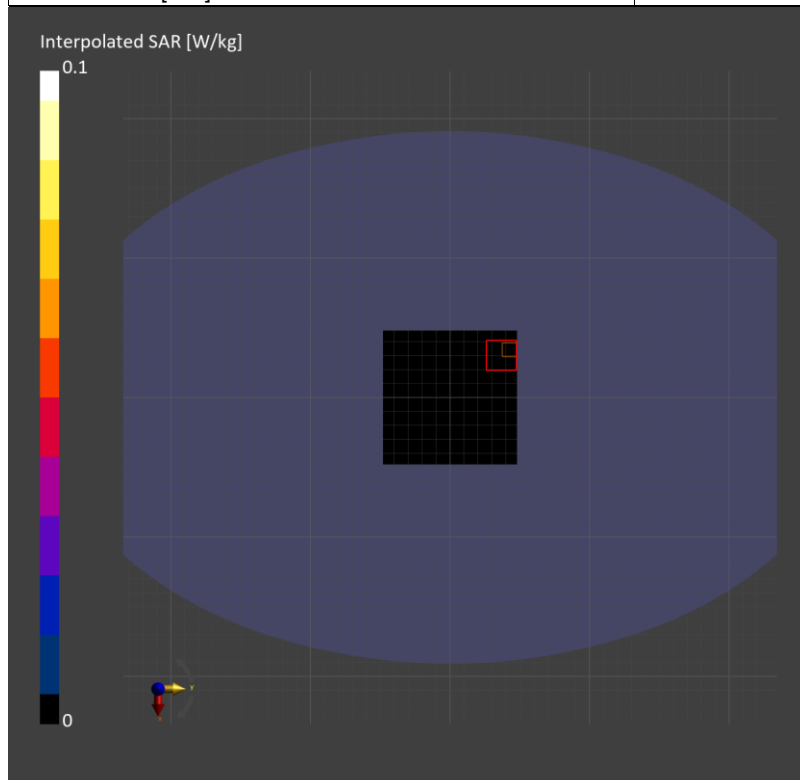
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.001	0.001
psSAR8g [W/kg]	0.001	0.001
psSAR10g [W/kg]	0.001	0.001
Power Drift [dB]	0.01	-0.01
M2/M1 [%]		66.1
Dist 3dB Peak [mm]		16.7



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ID: 020

Report No. :TESA2504000325E5

Measurement Report _Bluetooth(GFSK)_Body_Front Surface_CH 78_10mm_Ant 1_SKU8

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	Front Surface, 10.00	2480.000, 78	7.6	1.907	40.072

Hardware Setup

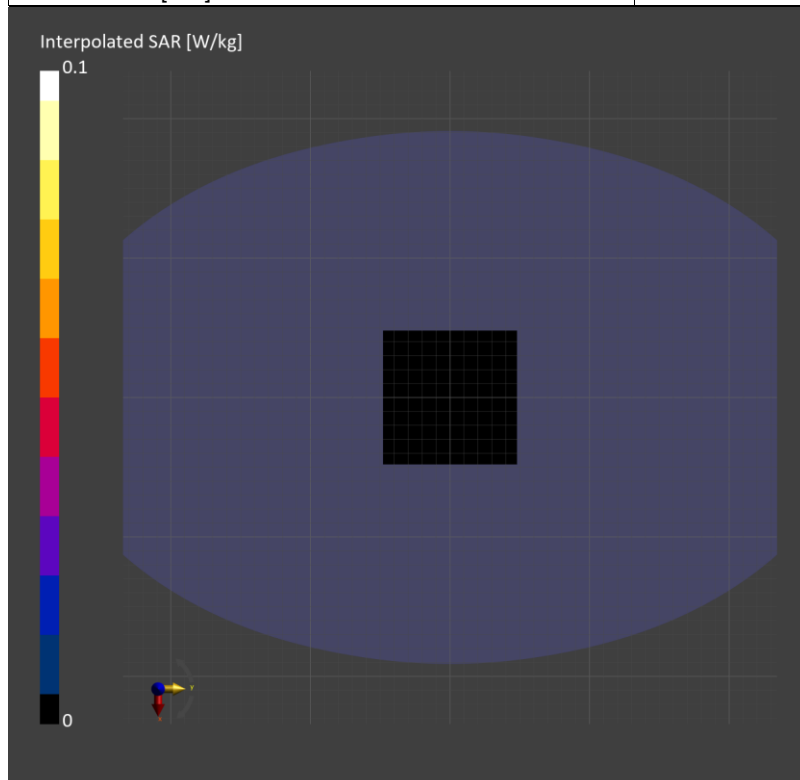
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.001	0.001
psSAR8g [W/kg]	0.001	0.001
psSAR10g [W/kg]	0.001	0.001
Power Drift [dB]	0.01	-0.01
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		14.9



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ID: 021

Report No. :TESA2504000325E5

Measurement Report_WLAN 802.11b Limb Back Surface_CH 11_0mm_Ant 1_SKU6

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	Back Surface,0.00	2462.000, 11	7.6	1.891	40.095

Hardware Setup

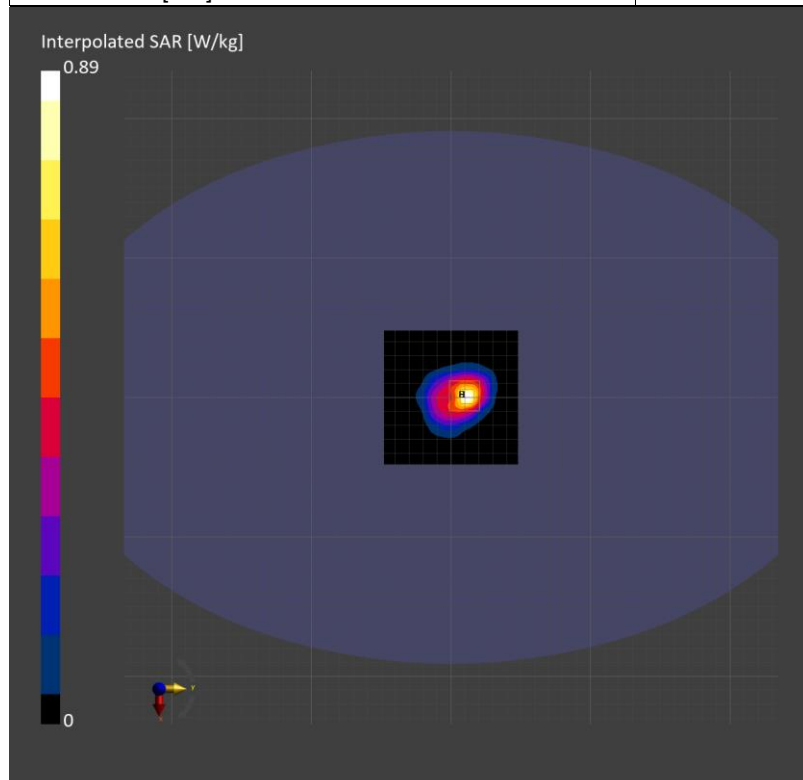
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.545	0.606
psSAR8g [W/kg]	0.226	0.206
psSAR10g [W/kg]	0.196	0.175
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		67.3
Dist 3dB Peak [mm]		7.1



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ID: 022

Report No. :TESA2504000325E5

Measurement Report_WLAN 802.11b Limb Back Surface_CH 11_0mm_Ant 1_SKU8

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	Back Surface,0.00	2462.000, 11	7.6	1.891	40.095

Hardware Setup

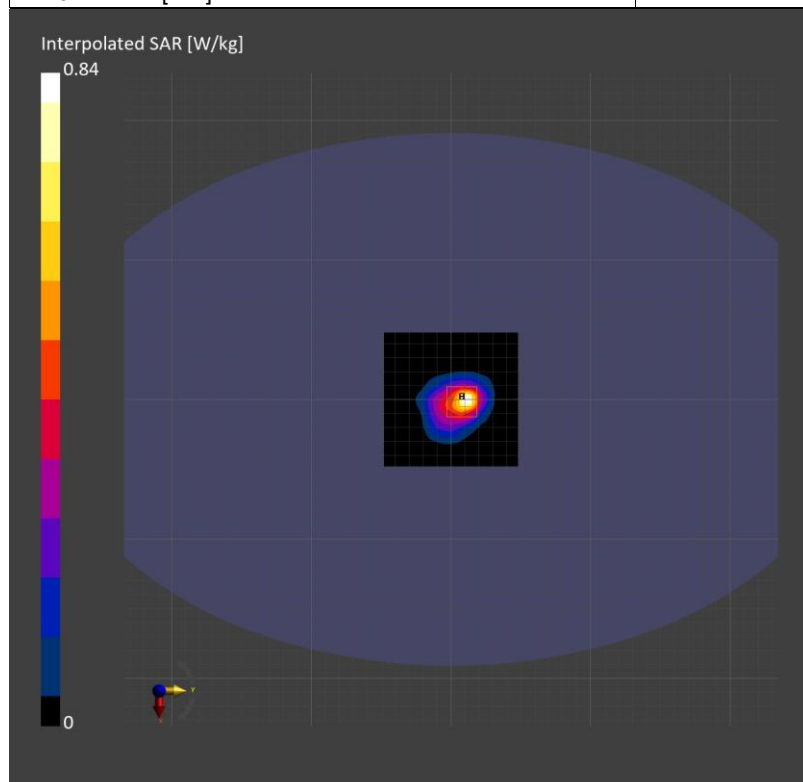
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.424	0.466
psSAR8g [W/kg]	0.111	0.156
psSAR10g [W/kg]	0.103	0.132
Power Drift [dB]	0.00	0.01
M2/M1 [%]		67.4
Dist 3dB Peak [mm]		7.3



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ID: 023

Report No. :TESA2504000325E5

Measurement Report_Bluetooth(GFSK)_Limb_Back Surface_CH 78_0mm_Ant 1_SKU6

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	Back Surface,0.00	2480.000, 78	7.6	1.907	40.072

Hardware Setup

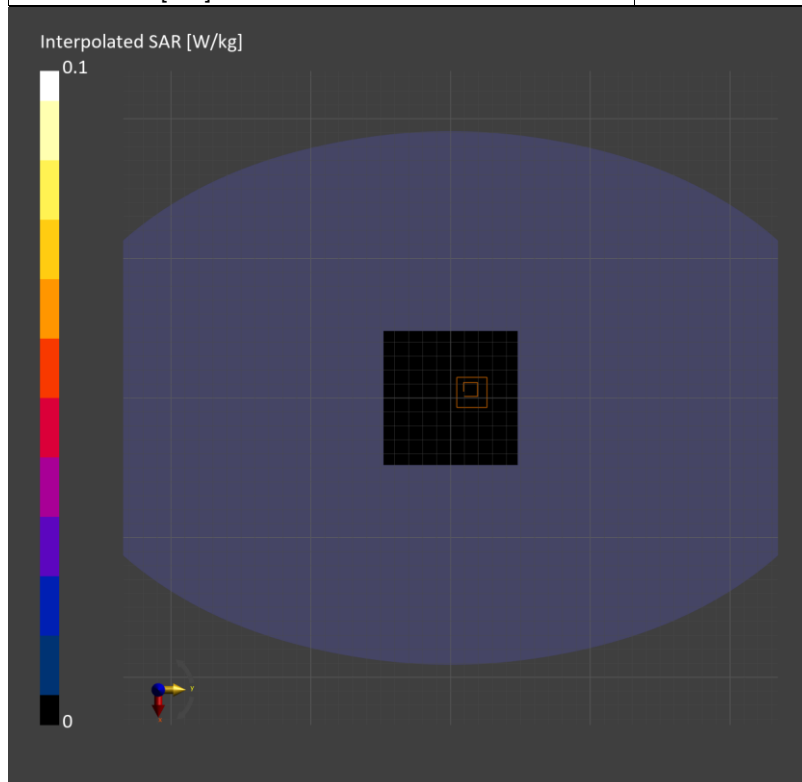
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.003	0.001
psSAR8g [W/kg]	0.002	0.001
psSAR10g [W/kg]	0.002	0.001
Power Drift [dB]	0.01	0.01
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		14.1



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ID: 024

Report No. :TESA2504000325E5

Measurement Report_Bluetooth(GFSK)_Limb_Back Surface_CH 78_0mm_Ant 1_SKU8

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	Back Surface,0.00	2480.000, 78	7.6	1.907	40.072

Hardware Setup

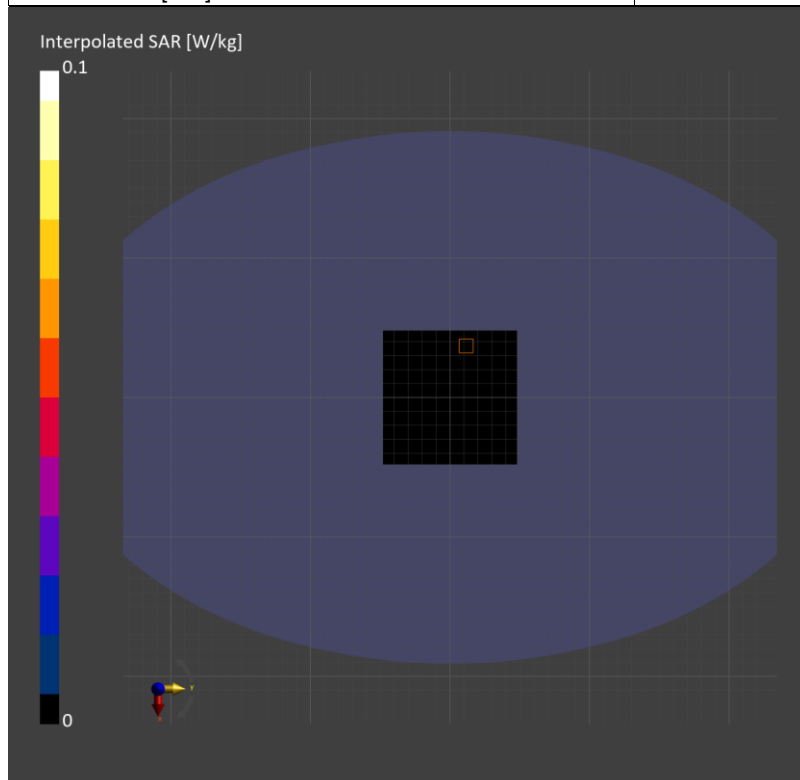
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2025-12-16	2025-12-16
psSAR1g [W/kg]	0.002	0.001
psSAR8g [W/kg]	0.001	0.001
psSAR10g [W/kg]	0.001	0.001
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		67.8
Dist 3dB Peak [mm]		15.0



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12 SAR SYSTEM CHECK RESULTS

Report No. :TESA2504000325E5

Measurement Report

Dipole 750 MHz_SN:1015

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 15.00	10.04	0.88	41.56

Hardware Setup

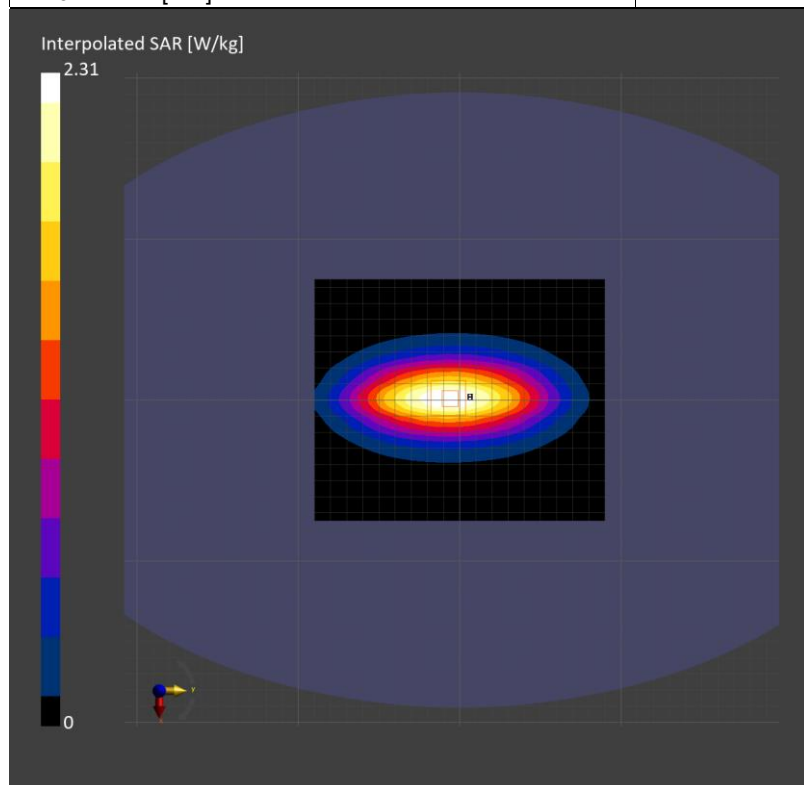
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-22	2025-05-22
psSAR1g [W/kg]	2.02	2.05
psSAR8g [W/kg]	1.43	1.46
psSAR10g [W/kg]	1.35	1.36
Power Drift [dB]	-0.00	0.01
M2/M1 [%]		69.0
Dist 3dB Peak [mm]		23.5



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Report No. :TESA2504000325E5

Measurement Report

Dipole 1750 MHz_SN:1158

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	8.34	1.376	39.694

Hardware Setup

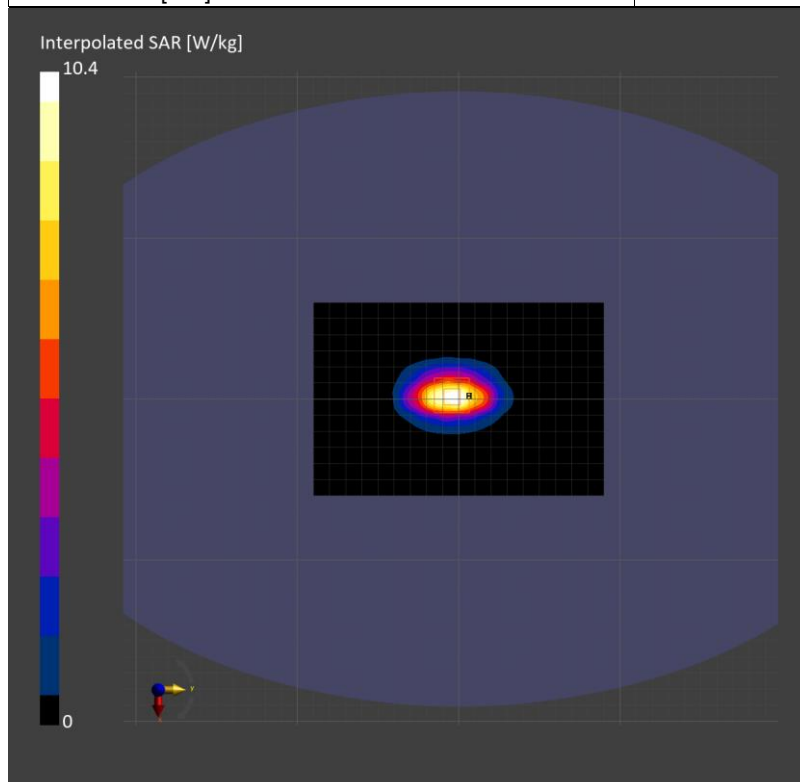
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 165.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-22	2025-05-22
psSAR1g [W/kg]	8.45	8.77
psSAR8g [W/kg]	4.94	5.15
psSAR10g [W/kg]	4.54	4.75
Power Drift [dB]	-0.02	-0.03
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		10.0



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Report No. : TESA2504000325E5

Measurement Report

Dipole 2450 MHz, SN:727

Ambient temperature: 22.4°C; Liquid temperature: 21.6°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	1.82	38.815

Hardware Setup

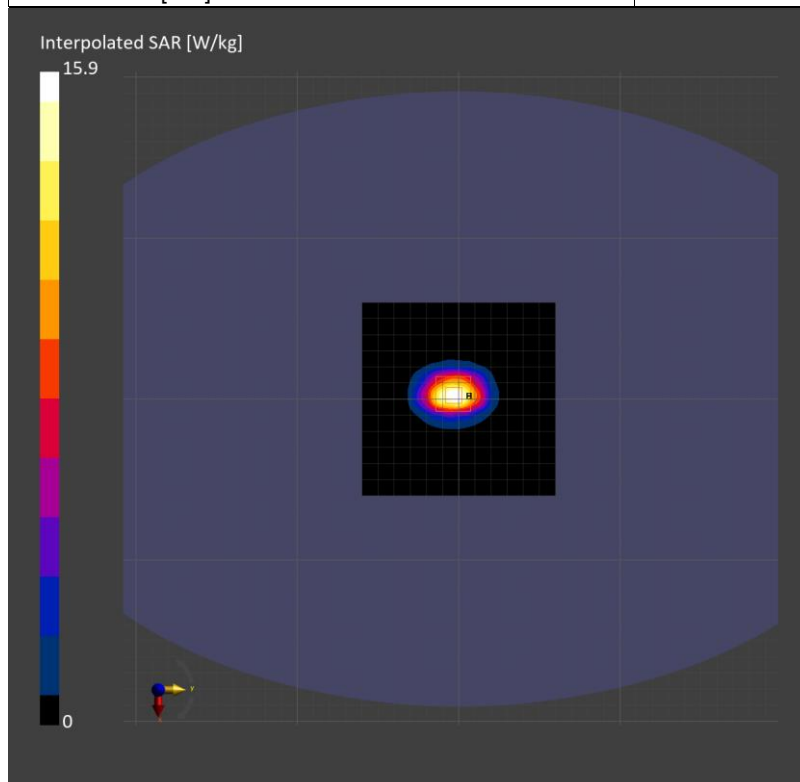
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

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	2025-05-23	2025-05-23
psSAR1g [W/kg]	12.5	13.2
psSAR8g [W/kg]	6.62	6.91
psSAR10g [W/kg]	5.99	6.27
Power Drift [dB]	0.04	0.03
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		9.0



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Report No. :TESA2504000325E5

Measurement Report

Dipole 750 MHz_SN:1015

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, 15.00	10.04	0.914	42.852

Hardware Setup

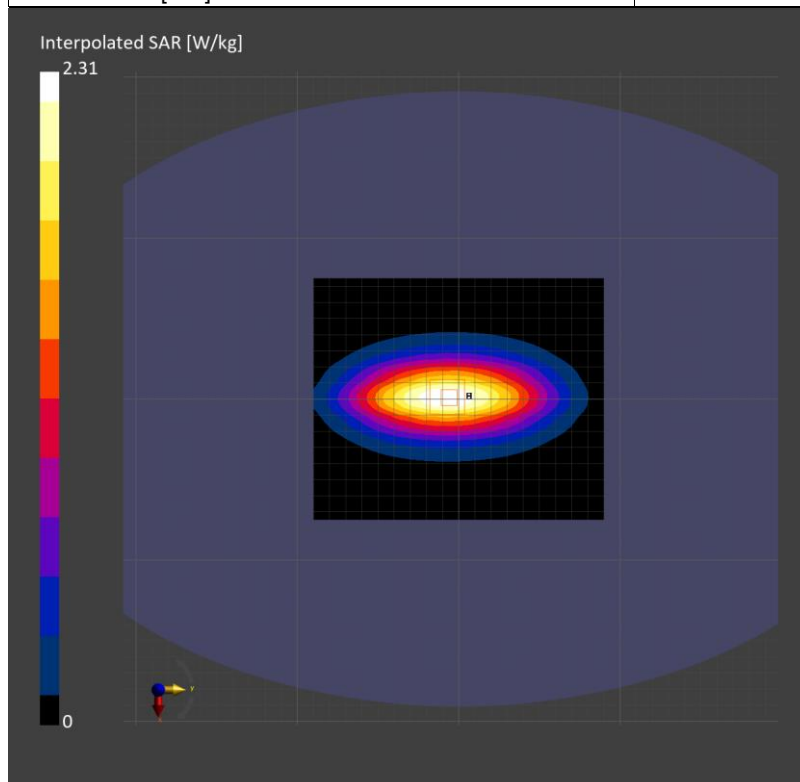
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	2.02	2.28
psSAR8g [W/kg]	1.43	1.60
psSAR10g [W/kg]	1.35	1.52
Power Drift [dB]	-0.00	0.01
M2/M1 [%]		69.0
Dist 3dB Peak [mm]		23.5



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Report No. :TESA2504000325E5

Measurement Report

Dipole 1750 MHz_SN:1008

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	8.34	1.421	40.989

Hardware Setup

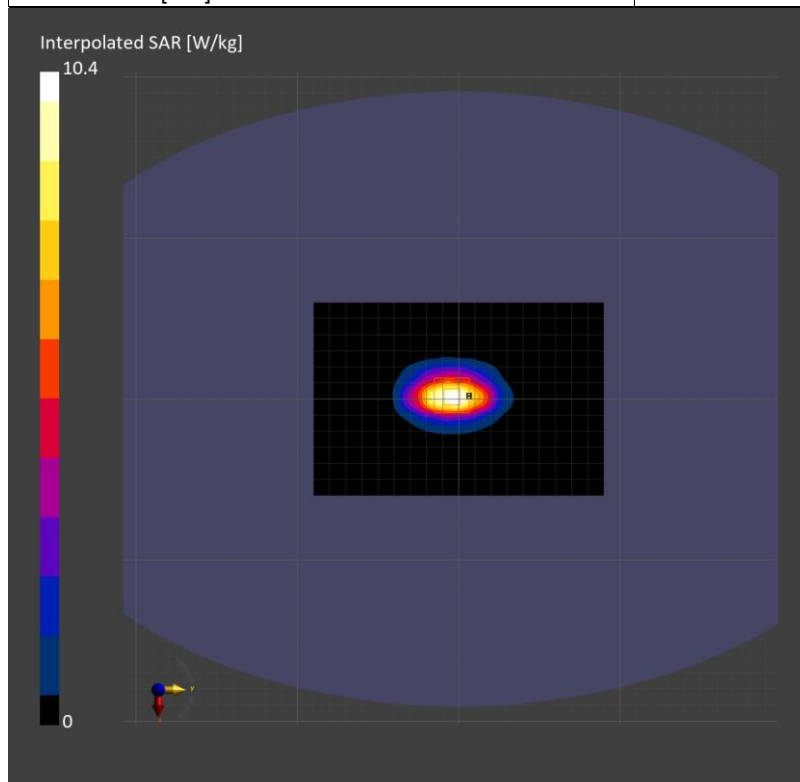
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 165.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-16	2025-12-16
psSAR1g [W/kg]	8.45	8.76
psSAR8g [W/kg]	4.94	5.12
psSAR10g [W/kg]	4.54	4.73
Power Drift [dB]	-0.02	-0.03
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		10.0



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Report No. : TESA2504000325E5

Measurement Report

Dipole 2450 MHz_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	1.880	40.110

Hardware Setup

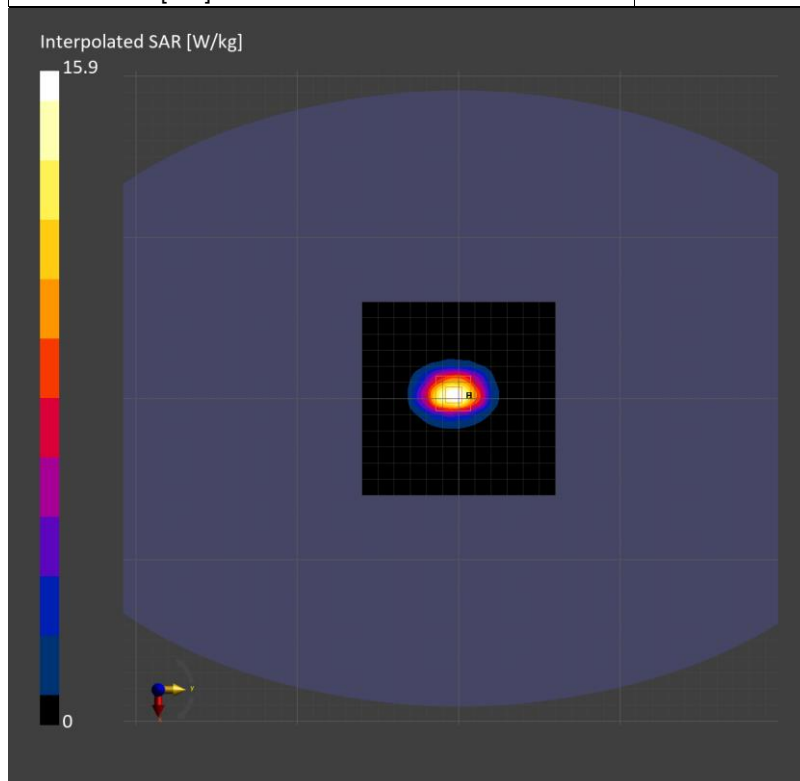
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1260, 2025-09-28

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	2025-12-16	2025-12-16
psSAR1g [W/kg]	12.5	13.5
psSAR8g [W/kg]	6.62	7.02
psSAR10g [W/kg]	5.99	6.38
Power Drift [dB]	0.04	0.03
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		9.0



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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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