

RF Exposure report



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

Product Name Converible PC
Brand Name HP
Model No. TPN-C181
Applicant HP Inc.
1501 Page Mill Road, Palo Alto, CA 94304, USA
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID B94-MT7921W
Date of EUT Receipt Sep. 05, 2024
Date of Test(s) Sep. 12, 2024 ~ Sep. 23, 2024
Date of Issue Oct. 16, 2024

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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Signed on behalf of SGS

Clerk / Cindy Chou	PM / Afu Chen	Approved By / John Yeh
Cindy Chou	afu Chen	John Teh

Date: Oct. 16, 2024

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2409000542EN	00	Initial creation of document	Oct. 16, 2024	Cindy Chou	

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

KKDB248227D01v02r01

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1.2 Description of EUT

Product Name	Converible PC	
Brand Name	HP	
Model No.	TPN-C181	
FCC ID	B94-MT7921W	
Integrated WLAN Module	Brand Name: MediaTek Model Name: MT7921	
Duty Cycle	WLAN802.11	Please refer to section 6
	Bluetooth	Please refer to section 6
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ac/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Vendor 1

Summary of Maximum SAR	
Mode	Highest SAR 1g (W/kg)
Bluetooth(GFSK)	0.18
2.4G WLAN	0.69
5G WLAN	1

Vendor 2

Summary of Maximum SAR	
Mode	Highest SAR 1g (W/kg)
Bluetooth(GFSK)	0.13
2.4G WLAN	1.11
5G WLAN	0.61

Vendor 3

Summary of Maximum SAR	
Mode	Highest SAR 1g (W/kg)
Bluetooth(GFSK)	0.21
2.4G WLAN	0.59
5G WLAN	1.16

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1.4 Antenna Information

Vendor	Vendor1				
Antenna	Tx1				
Part Number	0ACCN024005N (DC33002YV00)				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	-0.01	-1.12	-1.17	0.56	0.25
Antenna	Tx2				
Part Number	0ACCN024005N (DC33002YV00)				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	1.90	-0.40	-0.51	-0.13	-1.01
Note: Antenna information is provided by the applicant.					

Vendor	Vendor2				
Antenna	Tx1				
Part Number	81EAB615.G48(DC33002YX00)				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	2.89	1.68	1.49	2.23	2.45
Antenna	Tx2				
Part Number	81EAB615.G48(DC33002YX00)				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	2.61	1.87	1.89	1.70	1.32
Note: Antenna information is provided by the applicant.					

Vendor	Vendor3				
Antenna	Tx1				
Part Number	WA-P-LBLB-01-006 (DC33002YW20)				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	0.11	2.58	2.54	2.36	2.36
Antenna	Tx2				
Part Number	WA-P-LBLB-01-006 (DC33002YW20)				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	2.85	1.13	1.67	2.58	2.58
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	FCC Designation number	IC CAB identifier
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	TW3702
		SAR 6		
		SAR 8		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028	
		SAR 4		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027	
		SAR 7		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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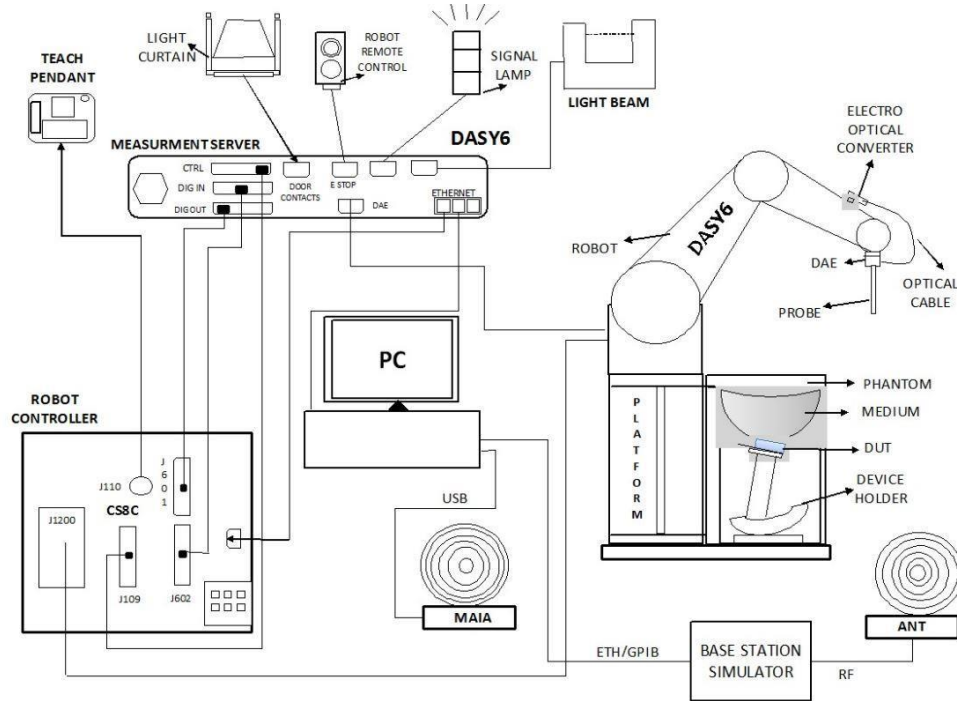
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2.2 SAR System

Block Diagram (DASY6)

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 10 and the DASY6 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 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 SAR SYSTEM VERIFICATION

3.1 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.

3.2 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.

3.3 Measurement results of Tissue Simulant Liquid

Vendor 1

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	Liquid Temp. (°C)	Ambient Temp (°C)
2402	39.296	1.758	38.985	1.749	-0.79%	-0.53%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
2412	39.276	1.767	38.946	1.755	-0.84%	-0.68%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
2437	39.226	1.789	38.852	1.775	-0.95%	-0.77%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
2441	39.218	1.792	38.810	1.778	-1.04%	-0.79%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
2450	39.200	1.800	38.784	1.785	-1.06%	-0.83%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
2462	39.184	1.813	38.742	1.795	-1.13%	-0.98%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
2480	39.160	1.832	38.715	1.812	-1.14%	-1.09%	$\pm 5\%$	Sep. 20, 2024	22.1	22.4
5190	36.010	4.650	36.702	4.738	1.92%	1.90%	$\pm 5\%$	Sep. 21, 2024	21.8	22.1
5230	35.970	4.690	36.648	4.786	1.88%	2.05%	$\pm 5\%$	Sep. 21, 2024	21.8	22.1
5250	35.950	4.710	36.594	4.810	1.79%	2.12%	$\pm 5\%$	Sep. 21, 2024	21.8	22.1
5270	35.930	4.730	36.571	4.832	1.78%	2.16%	$\pm 5\%$	Sep. 21, 2024	21.8	22.1
5310	35.890	4.770	36.526	4.893	1.77%	2.58%	$\pm 5\%$	Sep. 21, 2024	21.8	22.1
5190	36.010	4.650	36.730	4.691	2.00%	0.89%	$\pm 5\%$	Sep. 22, 2024	21.9	21.6
5230	35.970	4.690	36.662	4.732	1.92%	0.90%	$\pm 5\%$	Sep. 22, 2024	21.9	21.6
5250	35.950	4.710	36.611	4.755	1.84%	0.96%	$\pm 5\%$	Sep. 22, 2024	21.9	21.6
5270	35.930	4.730	36.586	4.780	1.83%	1.06%	$\pm 5\%$	Sep. 22, 2024	21.9	21.6
5310	35.890	4.770	36.543	4.822	1.82%	1.09%	$\pm 5\%$	Sep. 22, 2024	21.9	21.6
5530	35.605	4.997	36.442	5.105	2.35%	2.17%	$\pm 5\%$	Sep. 23, 2024	22.0	22.3
5600	35.500	5.070	36.315	5.184	2.30%	2.25%	$\pm 5\%$	Sep. 23, 2024	22.0	22.3
5610	35.490	5.080	36.284	5.199	2.24%	2.34%	$\pm 5\%$	Sep. 23, 2024	22.0	22.3
5690	35.410	5.160	36.171	5.283	2.15%	2.38%	$\pm 5\%$	Sep. 23, 2024	22.0	22.3
5750	35.350	5.220	36.110	5.349	2.15%	2.47%	$\pm 5\%$	Sep. 23, 2024	21.9	22.2
5775	35.325	5.245	36.056	5.378	2.07%	2.54%	$\pm 5\%$	Sep. 23, 2024	21.9	22.2

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Vendor 2

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	Liquid Temp. (°C)	Ambient Temp (°C)
2402	39.282	1.757	39.737	1.778	1.16%	1.17%	± 5%	Sep. 16, 2024	21.8	22.1
2412	39.276	1.767	39.731	1.788	1.16%	1.18%	± 5%	Sep. 16, 2024	21.8	22.1
2437	39.226	1.789	39.682	1.810	1.16%	1.19%	± 5%	Sep. 16, 2024	21.8	22.1
2441	39.215	1.792	39.673	1.813	1.17%	1.17%	± 5%	Sep. 16, 2024	21.8	22.1
2450	39.200	1.800	39.659	1.821	1.17%	1.17%	± 5%	Sep. 16, 2024	21.8	22.1
2462	39.184	1.813	39.642	1.835	1.17%	1.22%	± 5%	Sep. 16, 2024	21.8	22.1
2480	39.160	1.832	39.624	1.854	1.18%	1.20%	± 5%	Sep. 16, 2024	21.8	22.1
5190	36.010	4.650	35.258	4.552	-2.09%	-2.10%	± 5%	Sep. 17, 2024	22.0	22.2
5230	35.970	4.690	35.216	4.591	-2.10%	-2.11%	± 5%	Sep. 17, 2024	22.0	22.2
5250	35.950	4.710	35.194	4.610	-2.10%	-2.12%	± 5%	Sep. 17, 2024	22.0	22.2
5270	35.930	4.730	35.171	4.629	-2.11%	-2.14%	± 5%	Sep. 17, 2024	22.0	22.2
5310	35.890	4.770	35.129	4.668	-2.12%	-2.14%	± 5%	Sep. 17, 2024	22.0	22.2
5190	36.010	4.650	37.117	4.793	3.07%	3.09%	± 5%	Sep. 18, 2024	22.1	22.4
5230	35.970	4.690	37.079	4.835	3.08%	3.09%	± 5%	Sep. 18, 2024	22.1	22.4
5250	35.950	4.710	37.060	4.856	3.09%	3.10%	± 5%	Sep. 18, 2024	22.1	22.4
5270	35.930	4.730	37.042	4.878	3.09%	3.13%	± 5%	Sep. 18, 2024	22.1	22.4
5310	35.890	4.770	36.994	4.919	3.08%	3.12%	± 5%	Sep. 18, 2024	22.1	22.4
5530	35.605	4.997	35.887	5.037	0.79%	0.81%	± 5%	Sep. 19, 2024	22.1	22.3
5600	35.500	5.070	35.785	5.111	0.80%	0.81%	± 5%	Sep. 19, 2024	22.1	22.3
5610	35.490	5.080	35.774	5.122	0.80%	0.83%	± 5%	Sep. 19, 2024	22.1	22.3
5690	35.410	5.160	35.699	5.203	0.82%	0.83%	± 5%	Sep. 19, 2024	22.1	22.3
5750	35.350	5.220	35.641	5.264	0.82%	0.84%	± 5%	Sep. 19, 2024	22.0	22.2
5775	35.325	5.245	35.618	5.289	0.83%	0.84%	± 5%	Sep. 19, 2024	22.0	22.2

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Vendor 3

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	Liquid Temp. (°C)	Ambient Temp (°C)
2402	39.282	1.757	38.911	1.741	-0.95%	-0.94%	± 5%	Sep. 12, 2024	21.9	22.1
2412	39.276	1.767	38.905	1.750	-0.94%	-0.97%	± 5%	Sep. 12, 2024	21.9	22.1
2437	39.226	1.789	38.851	1.772	-0.96%	-0.94%	± 5%	Sep. 12, 2024	21.9	22.1
2441	39.215	1.792	38.839	1.775	-0.96%	-0.95%	± 5%	Sep. 12, 2024	21.9	22.1
2450	39.200	1.800	38.822	1.783	-0.96%	-0.94%	± 5%	Sep. 12, 2024	21.9	22.1
2462	39.184	1.813	38.801	1.796	-0.98%	-0.93%	± 5%	Sep. 12, 2024	21.9	22.1
2480	39.160	1.832	38.777	1.815	-0.98%	-0.93%	± 5%	Sep. 12, 2024	21.9	22.1
5190	36.010	4.650	36.558	4.721	1.52%	1.54%	± 5%	Sep. 13, 2024	22.0	22.3
5230	35.970	4.690	36.519	4.763	1.53%	1.56%	± 5%	Sep. 13, 2024	22.0	22.3
5250	35.950	4.710	36.501	4.783	1.53%	1.55%	± 5%	Sep. 13, 2024	22.0	22.3
5270	35.930	4.730	36.483	4.804	1.54%	1.56%	± 5%	Sep. 13, 2024	22.0	22.3
5310	35.890	4.770	36.441	4.846	1.54%	1.59%	± 5%	Sep. 13, 2024	22.0	22.3
5190	36.010	4.650	35.801	4.623	-0.58%	-0.57%	± 5%	Sep. 14, 2024	22.2	22.4
5230	35.970	4.690	35.760	4.665	-0.58%	-0.53%	± 5%	Sep. 14, 2024	22.2	22.4
5250	35.950	4.710	35.738	4.684	-0.59%	-0.55%	± 5%	Sep. 14, 2024	22.2	22.4
5270	35.930	4.730	35.718	4.703	-0.59%	-0.57%	± 5%	Sep. 14, 2024	22.2	22.4
5310	35.890	4.770	35.676	4.741	-0.60%	-0.61%	± 5%	Sep. 14, 2024	22.2	22.4
5530	35.605	4.997	36.527	5.128	2.59%	2.63%	± 5%	Sep. 15, 2024	22.1	22.5
5600	35.500	5.070	36.425	5.203	2.61%	2.62%	± 5%	Sep. 15, 2024	22.1	22.5
5610	35.490	5.080	36.414	5.214	2.60%	2.64%	± 5%	Sep. 15, 2024	22.1	22.5
5690	35.410	5.160	36.333	5.296	2.61%	2.64%	± 5%	Sep. 15, 2024	22.1	22.5
5750	35.350	5.220	36.272	5.358	2.61%	2.64%	± 5%	Sep. 15, 2024	22.1	22.5
5775	35.325	5.245	36.251	5.386	2.62%	2.69%	± 5%	Sep. 15, 2024	22.1	22.5

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3.4 The composition of the tissue simulating liquid:

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

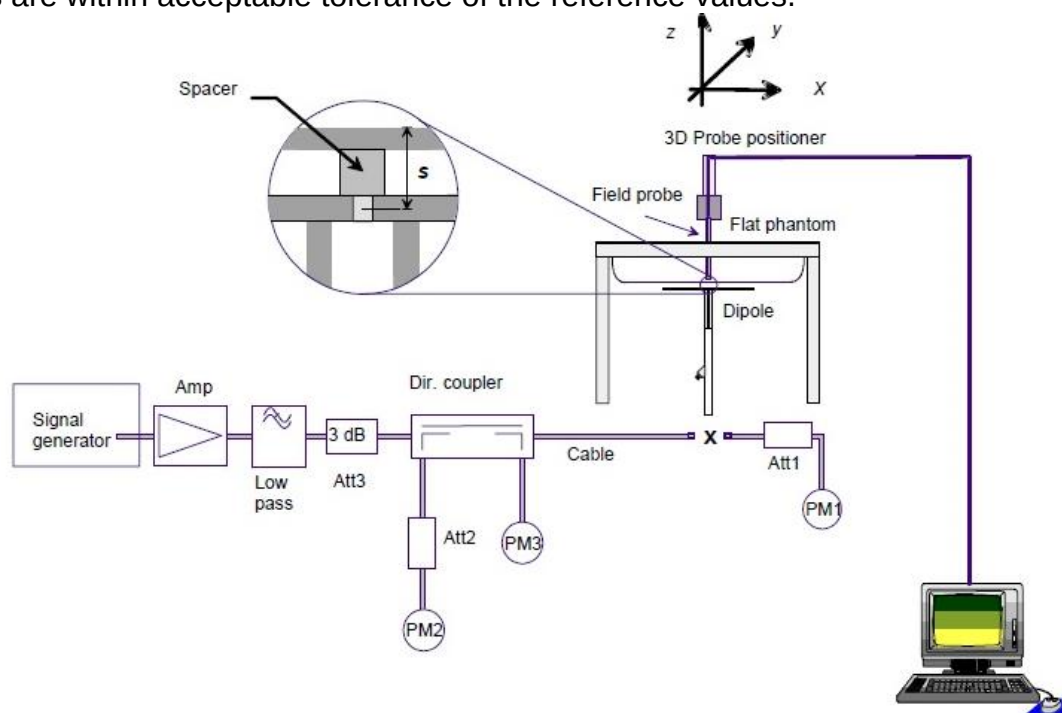
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 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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3.6 System check results

Vendor 1

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	52.7	13.6	54.4	3.23	± 10%	Sep.20,2024
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	1023	5250	78.8	8	80	1.52	± 10%	Sep.21,2024
D5GHzV2	1023	5250	78.8	8.3	83	5.33	± 10%	Sep.22,2024
D5GHzV2	1023	5600	81.3	8.46	84.6	4.06	± 10%	Sep.23,2024
D5GHzV2	1023	5750	78	8.03	80.3	2.95	± 10%	Sep.23,2024

Vendor 2

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	52.7	13.3	53.2	0.95	± 10%	Sep.16,2024
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	1023	5250	78.8	8.31	83.1	5.46	± 10%	Sep.17,2024
D5GHzV2	1023	5250	78.8	8.3	83	5.33	± 10%	Sep.18,2024
D5GHzV2	1023	5600	81.3	8.55	85.5	5.17	± 10%	Sep.19,2024
D5GHzV2	1023	5750	78	8.22	82.2	5.38	± 10%	Sep.19,2024

Vendor 3

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	52.7	13.1	52.4	-0.57	± 10%	Sep.12,2024
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	1023	5250	78.8	8.36	83.6	6.09	± 10%	Sep.13,2024
D5GHzV2	1023	5250	78.8	8.17	81.7	3.68	± 10%	Sep.14,2024
D5GHzV2	1023	5600	81.3	8.46	84.6	4.06	± 10%	Sep.15,2024
D5GHzV2	1023	5750	78	8.14	81.4	4.36	± 10%	Sep.15,2024

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4 TEST CONFIGURATIONS

4.1 Test Environment

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

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

4.2 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).
- **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

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test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 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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4.3 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.

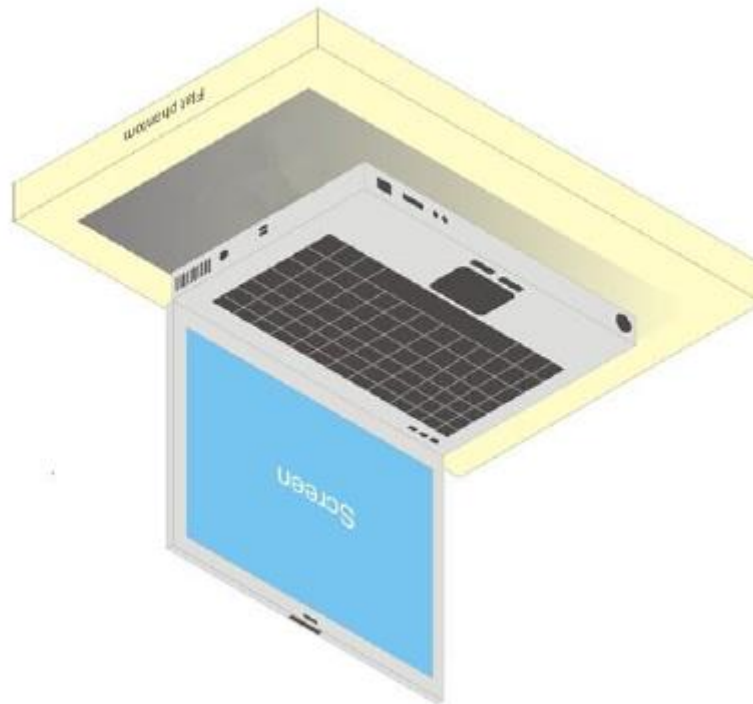


Illustration for Laptop Setup

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Tablet mode SAR test position (0mm)

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

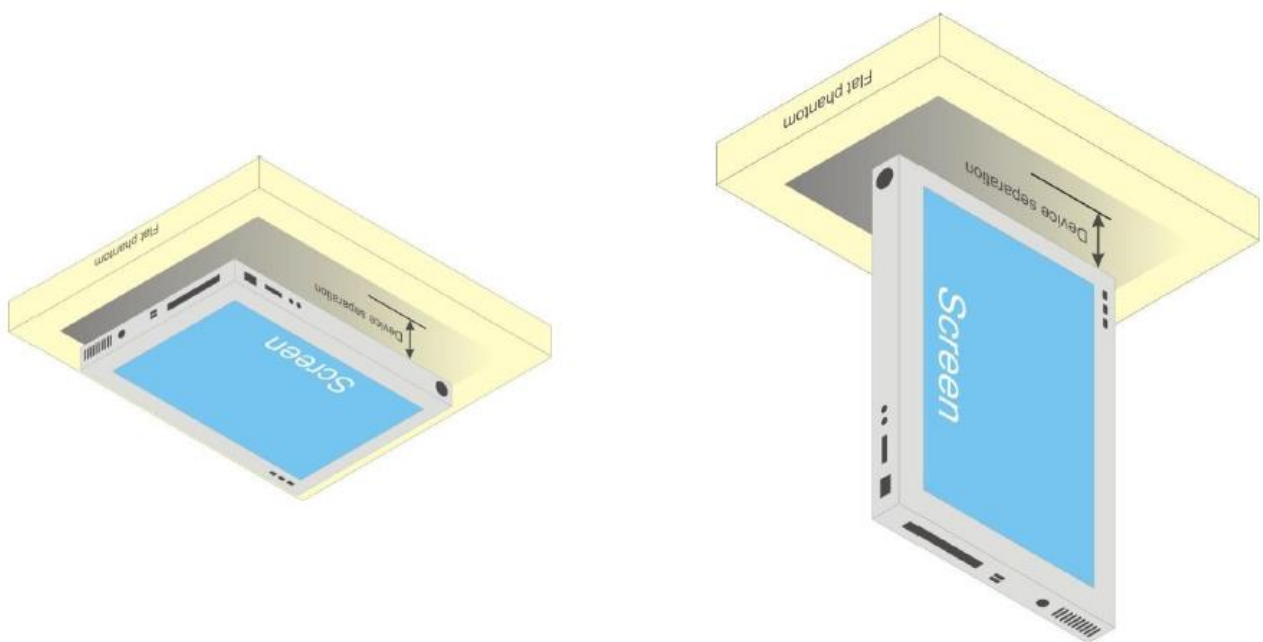


Illustration for Tablet Setup

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4.4 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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5 MAXIMUM OUTPUT POWER

5.1 WLAN

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	19.00	18.91
		2	2417		19.00	18.85
		6	2437		19.00	18.99
		10	2457		19.00	18.88
		11	2462		19.00	18.95
		12	2467		15.50	15.32
	802.11g	13	2472	6Mbps	9.00	8.81
		1	2412		17.00	16.86
		2	2417		18.00	17.85
		6	2437		18.50	18.32
		10	2457		18.00	17.84
		11	2462		17.00	16.80
	802.11n20-HT0	12	2467	MCS0	12.00	11.87
		13	2472		7.00	6.83
		1	2412		16.50	16.35
		2	2417		17.50	17.36
		6	2437		18.00	17.89
		10	2457		17.50	17.33
	802.11ac20-VHT0	11	2462	MCS0	16.50	16.35
		12	2467		10.00	9.81
		13	2472		5.50	5.31
		1	2412		16.50	16.35
		2	2417		17.50	17.35
		6	2437		18.00	17.84
	802.11ax20-HE0	10	2457	MCS0	17.50	17.38
		11	2462		16.50	16.33
		12	2467		10.00	9.82
		13	2472		5.50	5.31
		1	2412		17.00	16.90
		2	2417		17.50	17.40
	802.11n40-HT0	6	2437	MCS0	18.00	17.88
		10	2457		17.50	17.38
		11	2462		16.50	16.38
		12	2467		10.50	10.35
		13	2472		6.00	5.85
		3	2422	MCS0	15.00	14.83
	802.11ac40-VHT0	4	2427		15.50	15.36
		6	2437		16.00	15.81
		8	2447		15.50	15.34
		9	2452		15.00	14.82
		10	2457		8.50	8.27
	802.11ax40-HE0	11	2462	MCS0	6.50	6.33
		3	2422		15.00	14.87
		4	2427		15.50	15.33
		6	2437		15.50	15.36
		8	2447		16.00	15.88
		9	2452		15.00	14.81
	802.11ax40-HE0	10	2457	MCS0	8.50	8.40
		11	2462		6.50	6.33
		3	2422		15.00	14.85
		4	2427		15.50	15.35
		6	2437		15.50	15.33
		8	2447		16.00	15.88
	802.11ax40-HE0	9	2452	MCS0	15.00	14.85
		10	2457		8.50	8.38
		11	2462		6.50	6.33
		3	2422		15.00	14.85
		4	2427		15.50	15.35
		6	2437		15.50	15.33

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Tx1						
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	15.33
		40	5200		16.50	16.38
		44	5220		16.50	16.28
		48	5240		16.50	16.38
	802.11n20-HT0	36	5180	MCS0	15.50	15.35
		40	5200		16.50	16.39
		44	5220		16.50	16.29
		48	5240		16.50	16.32
	802.11ac20-VHT0	36	5180	MCS0	16.00	15.86
		40	5200		16.50	16.31
		44	5220		16.50	16.34
		48	5240		16.50	16.31
	802.11ax20-HE0	36	5180	MCS0	16.00	15.91
		40	5200		16.50	16.30
		44	5220		16.50	16.35
		48	5240		16.50	16.37
	802.11n40-HT0	38	5190	MCS0	15.00	14.88
		46	5230		16.50	16.49
	802.11ac40-VHT0	38	5190	MCS0	15.00	14.86
		46	5230		16.50	16.37
	802.11ax40-HE0	38	5190	MCS0	15.00	14.79
		46	5230		16.50	16.37
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.80
	802.11ax80-HE0	42	5210	MCS0	14.00	13.85

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Tx1						
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	16.50	16.38
		56	5280		16.50	16.44
		60	5300		16.50	16.38
		64	5320		15.50	15.35
	802.11n20-HT0	52	5260	MCS0	16.50	16.32
		56	5280		16.50	16.36
		60	5300		16.50	16.33
		64	5320		15.50	15.37
	802.11ac20-VHT0	52	5260	MCS0	16.50	16.33
		56	5280		16.50	16.35
		60	5300		16.50	16.36
		64	5320		15.50	15.39
	802.11ax20-HE0	52	5260	MCS0	16.50	16.43
		56	5280		16.50	16.34
		60	5300		16.50	16.40
		64	5320		15.50	15.40
	802.11n40-HT0	54	5270	MCS0	16.50	16.49
		62	5310		15.00	14.99
	802.11ac40-VHT0	54	5270	MCS0	16.50	16.40
		62	5310		15.00	14.84
	802.11ax40-HE0	54	5270	MCS0	16.50	16.40
		62	5310		15.00	14.91
	802.11ac80-VHT0	58	5290	MCS0	14.00	13.86
	802.11ax80-HE0	58	5290	MCS0	14.00	13.87

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	16.37
		104	5520		16.50	16.47
		116	5580		16.50	16.40
		120	5600		16.50	16.39
		136	5680		16.50	16.34
		140	5700		16.50	16.45
		144	5720		16.50	16.37
	802.11n20-HT0	100	5500	MCS0	16.50	16.33
		104	5520		16.50	16.41
		116	5580		16.50	16.37
		120	5600		16.50	16.42
		136	5680		16.50	16.43
		140	5700		16.50	16.42
		144	5720		16.50	16.38
	802.11ac20-VHT0	100	5500	MCS0	16.50	16.33
		104	5520		16.50	16.40
		116	5580		16.50	16.34
		120	5600		16.50	16.37
		136	5680		16.50	16.40
		140	5700		16.50	16.40
		144	5720		16.50	16.35
	802.11ax20-HE0	100	5500	MCS0	16.50	16.33
		104	5520		16.50	16.33
		116	5580		16.50	16.43
		120	5600		16.50	16.36
		136	5680		16.50	16.32
		140	5700		16.50	16.36
		144	5720		16.50	16.30
	802.11n40-HT0	102	5510	MCS0	16.50	16.34
		110	5550		16.50	16.30
		118	5590		16.50	16.40
		134	5670		16.50	16.42
		142	5710		16.50	16.45
	802.11ac40-VHT0	102	5510	MCS0	16.50	16.39
		110	5550		16.50	16.36
		118	5590		16.50	16.36
		134	5670		16.50	16.34
		142	5710		16.50	16.34
	802.11ax40-HE0	102	5510	MCS0	16.50	16.36
		110	5550		16.50	16.42
		118	5590		16.50	16.41
		134	5670		16.50	16.42
		142	5710		16.50	16.34
	802.11ac80-VHT0	106	5530	MCS0	14.50	14.48
		122	5610		16.50	16.46
		138	5690		16.50	16.49
	802.11ax80-HE0	106	5530	MCS0	14.50	14.42
		122	5610		16.50	16.36
		138	5690		16.50	16.33

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Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	16.50	16.38
		157	5785		16.50	16.46
		165	5825		16.50	16.34
	802.11n20-HT0	149	5745	MCS0	16.50	16.38
		157	5785		16.50	16.42
		165	5825		16.50	16.34
	802.11ac20-VHT0	149	5745	MCS0	16.50	16.37
		157	5785		16.50	16.33
		165	5825		16.50	16.40
	802.11ax20-HE0	149	5745	MCS0	16.50	16.37
		157	5785		16.50	16.33
		165	5825		16.50	16.32
	802.11n40-HT0	151	5755	MCS0	16.50	16.42
		159	5795		16.50	16.31
	802.11ac40-VHT0	151	5755	MCS0	16.50	16.32
		159	5795		16.50	16.33
	802.11ax40-HE0	151	5755	MCS0	16.50	16.40
		159	5795		16.50	16.36
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.47
	802.11ax80-HE0	155	5775	MCS0	16.50	16.37

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	19.00	18.91
		2	2417		19.00	18.85
		6	2437		19.00	18.95
		10	2457		19.00	18.84
		11	2462		19.00	18.99
		12	2467		15.50	15.37
		13	2472		9.00	8.85
	802.11g	1	2412	6Mbps	17.00	16.83
		2	2417		18.00	17.89
		6	2437		18.50	18.32
		10	2457		18.00	17.82
		11	2462		17.00	16.86
		12	2467		12.00	11.85
		13	2472		7.00	6.92
	802.11n20-HT0	1	2412	MCS0	16.50	16.35
		2	2417		17.50	17.38
		6	2437		18.00	17.78
		10	2457		17.50	17.30
		11	2462		16.50	16.44
		12	2467		10.00	9.84
		13	2472		5.50	5.39
	802.11ac20-VHT0	1	2412	MCS0	16.50	16.37
		2	2417		17.50	17.31
		6	2437		18.00	17.82
		10	2457		17.50	17.39
		11	2462		16.50	16.39
		12	2467		10.00	9.85
		13	2472		5.50	5.33
	802.11ax20-HE0	1	2412	MCS0	17.00	16.93
		2	2417		17.50	17.40
		6	2437		18.00	17.88
		10	2457		17.50	17.30
		11	2462		16.50	16.37
		12	2467		10.50	10.28
		13	2472		6.00	5.82
	802.11n40-HT0	3	2422	MCS0	15.00	14.91
		4	2427		15.50	15.27
		6	2437		16.00	15.91
		8	2447		15.50	15.36
		9	2452		15.00	14.86
		10	2457		8.50	8.40
		11	2462		6.50	6.30
	802.11ac40-VHT0	3	2422	MCS0	15.00	14.84
		4	2427		15.50	15.32
		6	2437		15.50	15.31
		8	2447		16.00	15.87
		9	2452		15.00	14.85
		10	2457		8.50	8.35
		11	2462		6.50	6.34
	802.11ax40-HE0	3	2422	MCS0	15.00	14.82
		4	2427		15.50	15.35
		6	2437		15.50	15.37
		8	2447		16.00	15.84
		9	2452		15.00	14.81
		10	2457		8.50	8.38
		11	2462		6.50	6.38

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Tx2						
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	15.31
		40	5200		16.50	16.37
		44	5220		16.50	16.31
		48	5240		16.50	16.34
	802.11n20-HT0	36	5180	MCS0	15.50	15.33
		40	5200		16.50	16.40
		44	5220		16.50	16.35
		48	5240		16.50	16.40
	802.11ac20-VHT0	36	5180	MCS0	16.00	15.84
		40	5200		16.50	16.34
		44	5220		16.50	16.38
		48	5240		16.50	16.36
	802.11ax20-HE0	36	5180	MCS0	16.00	15.81
		40	5200		16.50	16.29
		44	5220		16.50	16.28
		48	5240		16.50	16.36
	802.11n40-HT0	38	5190	MCS0	15.00	14.87
		46	5230		16.50	16.49
	802.11ac40-VHT0	38	5190	MCS0	15.00	14.82
		46	5230		16.50	16.37
	802.11ax40-HE0	38	5190	MCS0	15.00	14.81
		46	5230		16.50	16.34
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.82
	802.11ax80-HE0	42	5210	MCS0	14.00	13.86

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Tx2						
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	16.50	16.39
		56	5280		16.50	16.37
		60	5300		16.50	16.33
		64	5320		15.50	15.40
	802.11n20-HT0	52	5260	MCS0	16.50	16.45
		56	5280		16.50	16.33
		60	5300		16.50	16.37
		64	5320		15.50	15.32
	802.11ac20-VHT0	52	5260	MCS0	16.50	16.31
		56	5280		16.50	16.34
		60	5300		16.50	16.38
		64	5320		15.50	15.37
	802.11ax20-HE0	52	5260	MCS0	16.50	16.46
		56	5280		16.50	16.40
		60	5300		16.50	16.39
		64	5320		15.50	15.39
	802.11n40-HT0	54	5270	MCS0	16.50	16.49
		62	5310		15.00	14.97
	802.11ac40-VHT0	54	5270	MCS0	16.50	16.34
		62	5310		15.00	14.90
	802.11ax40-HE0	54	5270	MCS0	16.50	16.32
		62	5310		15.00	14.94
	802.11ac80-VHT0	58	5290	MCS0	14.00	13.89
	802.11ax80-HE0	58	5290	MCS0	14.00	13.88

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	16.34
		104	5520		16.50	16.42
		116	5580		16.50	16.39
		120	5600		16.50	16.31
		136	5680		16.50	16.46
		140	5700		16.50	16.42
		144	5720		16.50	16.37
	802.11n20-HT0	100	5500	MCS0	16.50	16.39
		104	5520		16.50	16.33
		116	5580		16.50	16.34
		120	5600		16.50	16.36
		136	5680		16.50	16.43
		140	5700		16.50	16.40
		144	5720		16.50	16.41
	802.11ac20-VHT0	100	5500	MCS0	16.50	16.31
		104	5520		16.50	16.33
		116	5580		16.50	16.32
		120	5600		16.50	16.33
		136	5680		16.50	16.34
		140	5700		16.50	16.33
		144	5720		16.50	16.34
	802.11ax20-HE0	100	5500	MCS0	16.50	16.34
		104	5520		16.50	16.33
		116	5580		16.50	16.36
		120	5600		16.50	16.42
		136	5680		16.50	16.36
		140	5700		16.50	16.34
		144	5720		16.50	16.37
	802.11n40-HT0	102	5510	MCS0	16.50	16.35
		110	5550		16.50	16.46
		118	5590		16.50	16.38
		134	5670		16.50	16.36
		142	5710		16.50	16.43
	802.11ac40-VHT0	102	5510	MCS0	16.50	16.38
		110	5550		16.50	16.39
		118	5590		16.50	16.32
		134	5670		16.50	16.38
		142	5710		16.50	16.37
	802.11ax40-HE0	102	5510	MCS0	16.50	16.41
		110	5550		16.50	16.44
		118	5590		16.50	16.37
		134	5670		16.50	16.38
		142	5710		16.50	16.39
	802.11ac80-VHT0	106	5530	MCS0	14.50	14.49
		122	5610		16.50	16.40
		138	5690		16.50	16.48
	802.11ax80-HE0	106	5530	MCS0	14.50	14.43
		122	5610		16.50	16.38
		138	5690		16.50	16.40

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Tx2						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	16.50	16.35
		157	5785		16.50	16.34
		165	5825		16.50	16.41
	802.11n20-HT0	149	5745	MCS0	16.50	16.39
		157	5785		16.50	16.31
		165	5825		16.50	16.34
	802.11ac20-VHT0	149	5745	MCS0	16.50	16.34
		157	5785		16.50	16.31
		165	5825		16.50	16.39
	802.11ax20-HE0	149	5745	MCS0	16.50	16.37
		157	5785		16.50	16.35
		165	5825		16.50	16.38
	802.11n40-HT0	151	5755	MCS0	16.50	16.31
		159	5795		16.50	16.30
	802.11ac40-VHT0	151	5755	MCS0	16.50	16.37
		159	5795		16.50	16.33
	802.11ax40-HE0	151	5755	MCS0	16.50	16.36
		159	5795		16.50	16.37
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.42
	802.11ax80-HE0	155	5775	MCS0	16.50	16.30

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5.2 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	11.50	9.95	8.50	7.79	8.50	7.80
	CH 39	2441		10.01		7.88		7.84
	CH 78	2480		9.88		7.82		7.88

5.3 BLE

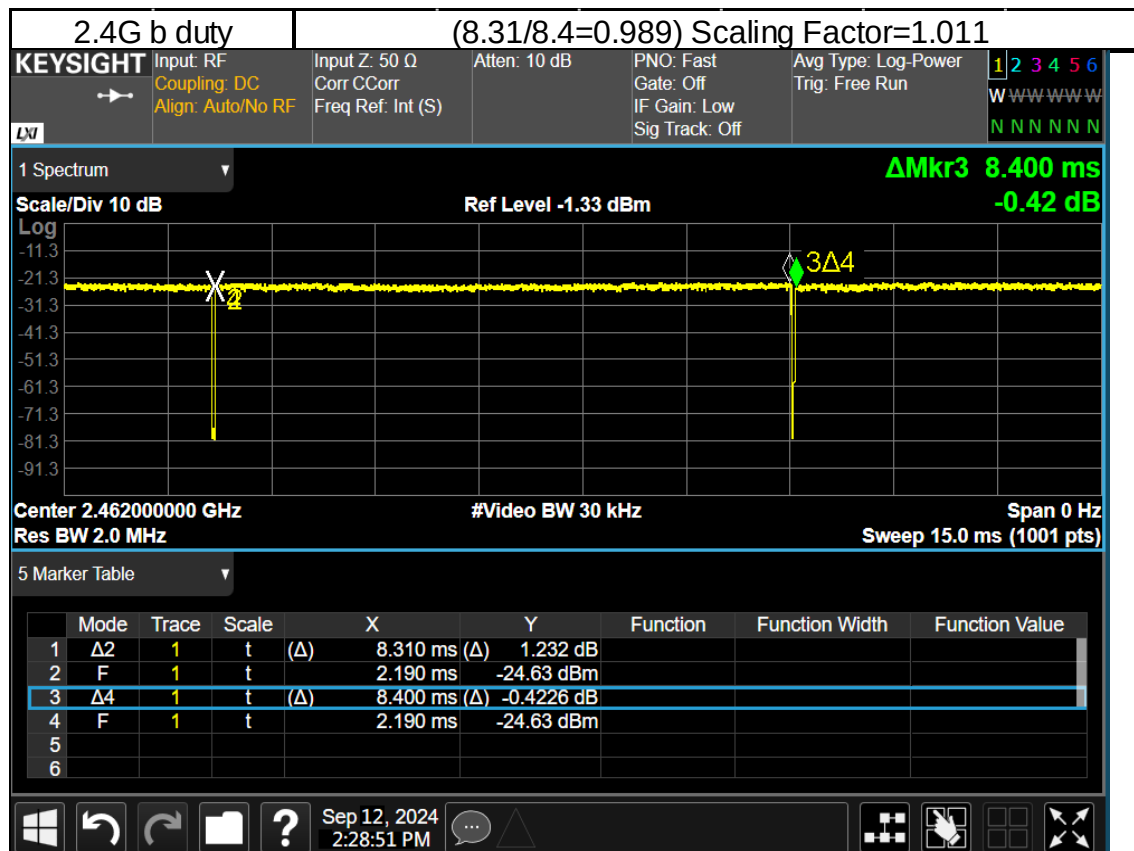
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	11.5	9.84
	CH 19	2440		9.91
	CH 39	2480		9.79
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	11.5	9.86
	CH 19	2440		9.90
	CH 39	2480		9.80

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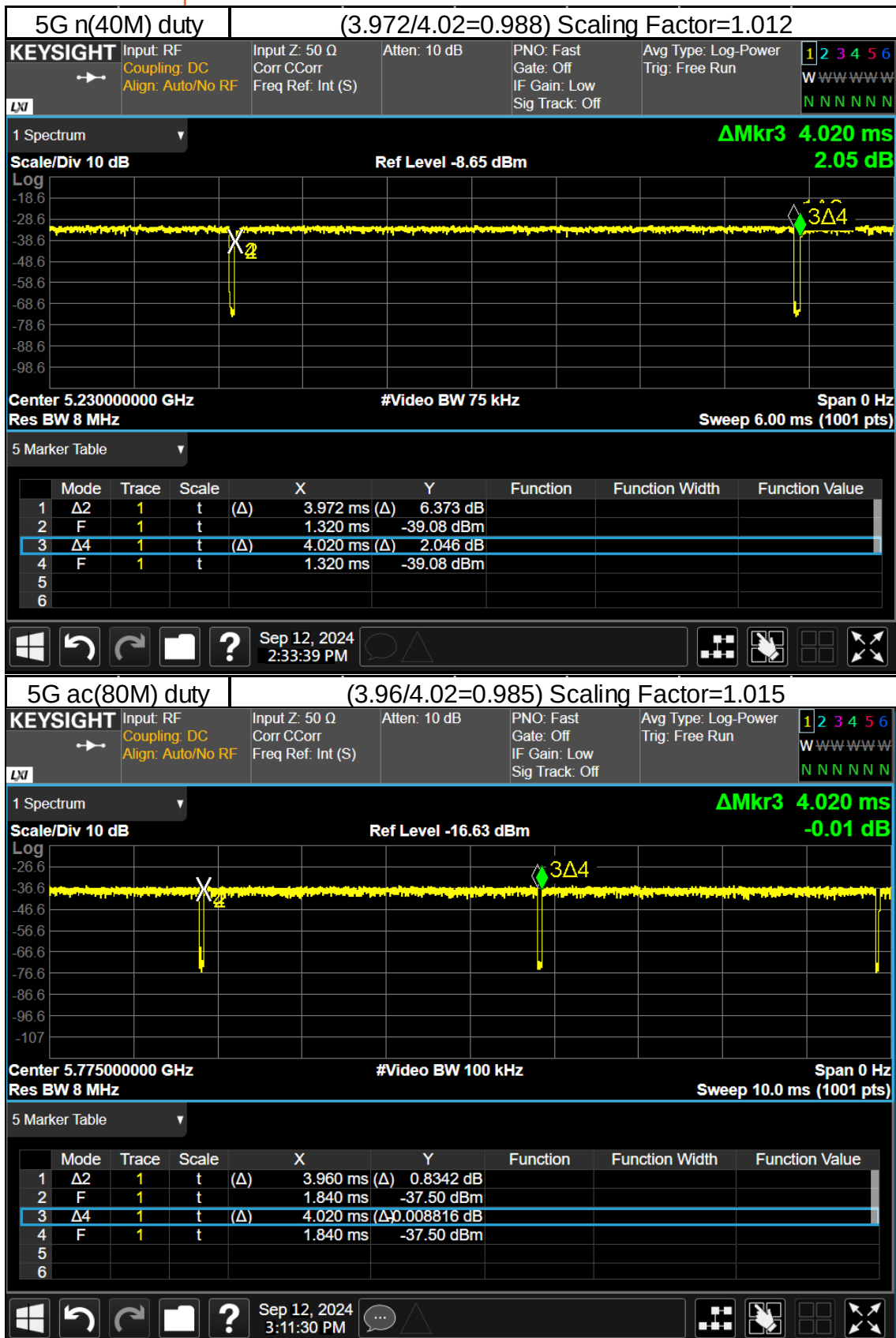
6 DUTY CYCLE



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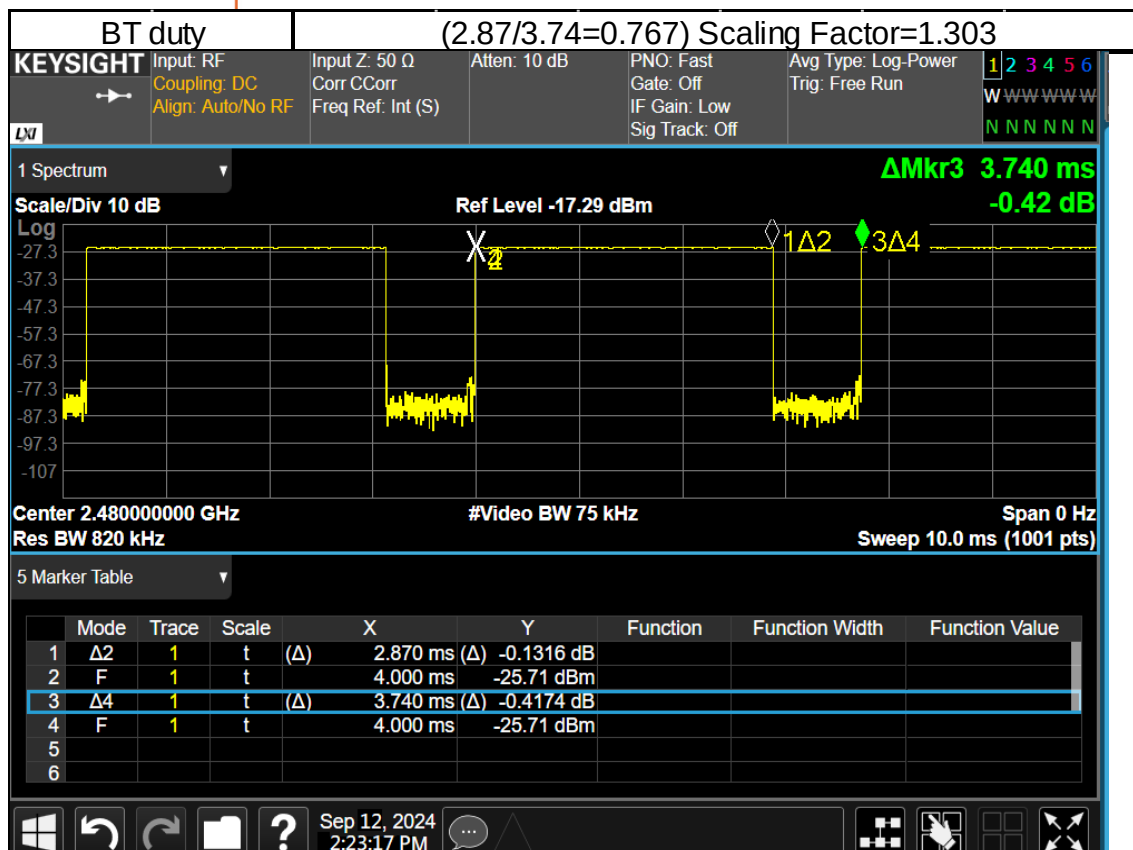
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7 SUMMARY OF RESULTS

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

WLAN

Vendor 1

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	Tx1	Bottom Surface	0	1	2412	19.00	18.91	1.01	102.09%	0.010	0.010	-
WLAN 802.11b	Tx1	Bottom Surface	0	6	2437	19.00	18.99	1.01	100.23%	0.014	0.014	-
WLAN 802.11b	Tx1	Bottom Surface	0	11	2462	19.00	18.95	1.01	101.16%	0.017	0.017	001
WLAN 802.11b	Tx1	Back Surface	0	6	2437	19.00	18.99	1.01	100.23%	0.234	0.237	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	19.00	18.91	1.01	102.09%	0.415	0.428	-
WLAN 802.11b	Tx1	Top Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.457	0.463	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	19.00	18.95	1.01	101.16%	0.478	0.489	012
WLAN 802.11b	Tx1	Bottom Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.019	0.019	-
WLAN 802.11b	Tx1	Right Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.006	0.006	-
WLAN 802.11b	Tx1	Left Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.108	0.109	-
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)	Tx1	Bottom Surface	0	00	2402	11.50	9.95	1.30	142.89%	0.003	0.006	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	39	2441	11.50	10.01	1.30	140.93%	0.005	0.009	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	78	2480	11.50	9.88	1.30	145.21%	0.007	0.013	002
Bluetooth(GFSK)	Tx1	Back Surface	0	39	2441	11.50	10.01	1.30	140.93%	0.062	0.114	-
Bluetooth(GFSK)	Tx1	Top Edge	0	00	2402	11.50	9.95	1.30	142.89%	0.076	0.142	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.082	0.151	-
Bluetooth(GFSK)	Tx1	Top Edge	0	78	2480	11.50	9.88	1.30	145.21%	0.095	0.180	013
Bluetooth(GFSK)	Tx1	Bottom Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.011	0.020	-
Bluetooth(GFSK)	Tx1	Right Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.002	0.004	-
Bluetooth(GFSK)	Tx1	Left Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.048	0.088	-
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	Tx1	Bottom Surface	0	38	5190	15.00	14.88	1.01	102.80%	0.041	0.043	-
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.046	0.047	003
WLAN 802.11n(40M) 5.2G	Tx1	Back Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.212	0.215	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	38	5190	15.00	14.88	1.01	102.80%	0.439	0.457	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.474	0.481	014
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.011	0.011	-
WLAN 802.11n(40M) 5.2G	Tx1	Right Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.004	0.004	-
WLAN 802.11n(40M) 5.2G	Tx1	Left Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.105	0.107	-
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	Tx1	Bottom Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.046	0.047	004
WLAN 802.11n(40M) 5.3G	Tx1	Bottom Surface	0	62	5310	15.00	14.99	1.01	100.23%	0.039	0.040	-
WLAN 802.11n(40M) 5.3G	Tx1	Back Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.241	0.244	-
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.477	0.484	015
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	62	5310	15.00	14.99	1.01	100.23%	0.438	0.444	-
WLAN 802.11n(40M) 5.3G	Tx1	Bottom Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.009	0.009	-
WLAN 802.11n(40M) 5.3G	Tx1	Right Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.002	0.002	-
WLAN 802.11n(40M) 5.3G	Tx1	Left Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.112	0.114	-
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	Tx1	Bottom Surface	0	106	5530	14.50	14.48	1.00	100.46%	0.026	0.026	-
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Surface	0	122	5610	16.50	16.46	1.00	100.93%	0.024	0.024	-
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Surface	0	138	5690	16.50	16.49	1.00	100.23%	0.030	0.030	005
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	138	5690	16.50	16.49	1.00	100.23%	0.334	0.335	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	106	5530	14.50	14.48	1.00	100.46%	0.613	0.616	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	122	5610	16.50	16.46	1.00	100.93%	0.559	0.564	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	16.50	16.49	1.00	100.23%	0.660	0.662	016
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Edge	0	138	5690	16.50	16.49	1.00	100.23%	0.024	0.024	-
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	138	5690	16.50	16.49	1.00	100.23%	0.008	0.008	-
WLAN 802.11ac(80M) 5.6G	Tx1	Left Edge	0	138	5690	16.50	16.49	1.00	100.23%	0.159	0.159	-
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	Tx1	Bottom Surface	0	155	5775	16.50	16.47	1.00	100.69%	0.021	0.021	006
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	16.50	16.47	1.00	100.69%	0.269	0.271	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	16.50	16.47	1.00	100.69%	0.546	0.550	017
WLAN 802.11ac(80M) 5.8G	Tx1	Bottom Edge	0	155	5775	16.50	16.47	1.00	100.69%	0.015	0.015	-
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	16.50	16.47	1.00	100.69%	0.006	0.006	-
WLAN 802.11ac(80M) 5.8G	Tx1	Left Edge	0	155	5775	16.50	16.47	1.00	100.69%	0.131	0.132	-

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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 802.11b	Tx2	Bottom Surface	0	1	2412	19.00	18.91	1.01	102.09%	0.011	0.011	-
WLAN 802.11b	Tx2	Bottom Surface	0	6	2437	19.00	18.95	1.01	101.16%	0.015	0.015	-
WLAN 802.11b	Tx2	Bottom Surface	0	11	2462	19.00	18.99	1.01	100.23%	0.019	0.019	007
WLAN 802.11b	Tx2	Back Surface	0	11	2462	19.00	18.99	1.01	100.23%	0.236	0.239	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	19.00	18.91	1.01	102.09%	0.581	0.600	-
WLAN 802.11b	Tx2	Top Edge	0	6	2437	19.00	18.95	1.01	101.16%	0.605	0.619	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.683	0.692	018
WLAN 802.11b	Tx2	Bottom Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.020	0.020	-
WLAN 802.11b	Tx2	Right Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.146	0.148	-
WLAN 802.11b	Tx2	Left Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.013	0.013	-
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	Tx2	Bottom Surface	0	38	5190	15.00	14.87	1.01	103.04%	0.022	0.023	-
WLAN 802.11n(40M) 5.2G	Tx2	Bottom Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.026	0.026	008
WLAN 802.11n(40M) 5.2G	Tx2	Back Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.489	0.496	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	38	5190	15.00	14.87	1.01	103.04%	0.713	0.743	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.988	1.002	019
WLAN 802.11n(40M) 5.2G	Tx2	Bottom Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.031	0.031	-
WLAN 802.11n(40M) 5.2G	Tx2	Right Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.205	0.208	-
WLAN 802.11n(40M) 5.2G	Tx2	Left Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.010	0.010	-
WLAN 802.11n(40M) 5.2G*	Tx2	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.951	0.965	-
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	Tx2	Bottom Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.028	0.028	-
WLAN 802.11n(40M) 5.3G	Tx2	Bottom Surface	0	62	5310	15.00	14.97	1.01	100.69%	0.022	0.022	-
WLAN 802.11n(40M) 5.3G	Tx2	Back Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.455	0.462	-
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.936	0.949	020
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	62	5310	15.00	14.97	1.01	100.69%	0.722	0.736	-
WLAN 802.11n(40M) 5.3G	Tx2	Bottom Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.022	0.022	-
WLAN 802.11n(40M) 5.3G	Tx2	Right Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.186	0.189	-
WLAN 802.11n(40M) 5.3G	Tx2	Left Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.009	0.009	-
WLAN 802.11n(40M) 5.3G*	Tx2	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.910	0.923	-
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	Tx2	Bottom Surface	0	106	5530	14.50	14.49	1.00	100.23%	0.013	0.013	-
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Surface	0	122	5610	16.50	16.40	1.00	102.33%	0.012	0.012	-
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Surface	0	138	5690	16.50	16.48	1.00	100.46%	0.016	0.016	010
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	16.50	16.48	1.00	100.46%	0.227	0.228	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	106	5530	14.50	14.49	1.00	100.23%	0.467	0.468	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	122	5610	16.50	16.40	1.00	102.33%	0.439	0.449	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	16.50	16.48	1.00	100.46%	0.490	0.492	021
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Edge	0	138	5690	16.50	16.48	1.00	100.46%	0.019	0.019	-
WLAN 802.11ac(80M) 5.6G	Tx2	Right Edge	0	138	5690	16.50	16.48	1.00	100.46%	0.108	0.108	-
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	16.50	16.48	1.00	100.46%	0.007	0.007	-
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	Tx2	Bottom Surface	0	155	5775	16.50	16.42	1.00	101.86%	0.026	0.026	011
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	16.50	16.42	1.00	101.86%	0.210	0.214	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	16.50	16.42	1.00	101.86%	0.460	0.469	022
WLAN 802.11ac(80M) 5.8G	Tx2	Bottom Edge	0	155	5775	16.50	16.42	1.00	101.86%	0.014	0.014	-
WLAN 802.11ac(80M) 5.8G	Tx2	Right Edge	0	155	5775	16.50	16.42	1.00	101.86%	0.084	0.086	-
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	16.50	16.42	1.00	101.86%	0.005	0.005	-

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

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Vendor 2

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	Tx1	Bottom Surface	0	1	2412	19.00	18.91	1.01	102.09%	0.020	0.021	-
WLAN 802.11b	Tx1	Bottom Surface	0	6	2437	19.00	18.99	1.01	100.23%	0.022	0.022	-
WLAN 802.11b	Tx1	Bottom Surface	0	11	2462	19.00	18.95	1.01	101.16%	0.025	0.026	023
WLAN 802.11b	Tx1	Back Surface	0	6	2437	19.00	18.99	1.01	100.23%	0.458	0.464	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	19.00	18.91	1.01	102.09%	0.896	0.925	-
WLAN 802.11b	Tx1	Top Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.953	0.966	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	19.00	18.95	1.01	101.16%	1.080	1.105	034
WLAN 802.11b	Tx1	Bottom Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.083	0.084	-
WLAN 802.11b	Tx1	Right Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.026	0.026	-
WLAN 802.11b	Tx1	Left Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.282	0.286	-
WLAN 802.11b*	Tx1	Top Edge	0	11	2462	19.00	18.95	1.01	101.16%	1.010	1.033	-
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)	Tx1	Bottom Surface	0	00	2402	11.50	9.95	1.30	142.89%	0.006	0.011	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	39	2441	11.50	10.01	1.30	140.93%	0.009	0.017	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	78	2480	11.50	9.88	1.30	145.21%	0.012	0.023	024
Bluetooth(GFSK)	Tx1	Back Surface	0	39	2441	11.50	10.01	1.30	140.93%	0.022	0.040	-
Bluetooth(GFSK)	Tx1	Top Edge	0	00	2402	11.50	9.95	1.30	142.89%	0.045	0.084	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.058	0.107	-
Bluetooth(GFSK)	Tx1	Top Edge	0	78	2480	11.50	9.88	1.30	145.21%	0.069	0.131	035
Bluetooth(GFSK)	Tx1	Bottom Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.002	0.004	-
Bluetooth(GFSK)	Tx1	Right Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.001	0.002	-
Bluetooth(GFSK)	Tx1	Left Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.010	0.018	-
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	
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Surface	0	38	5190	15.00	14.88	1.01	102.80%	0.010	0.010	-
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.013	0.013	025
WLAN 802.11n(40M) 5.2G	Tx1	Back Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.183	0.186	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	38	5190	15.00	14.88	1.01	102.80%	0.267	0.278	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.334	0.339	036
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.013	0.013	-
WLAN 802.11n(40M) 5.2G	Tx1	Right Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.005	0.005	-
WLAN 802.11n(40M) 5.2G	Tx1	Left Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.082	0.083	-
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	Tx1	Bottom Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.033	0.033	026
WLAN 802.11n(40M) 5.3G	Tx1	Bottom Surface	0	62	5310	15.00	14.99	1.01	100.23%	0.028	0.028	-
WLAN 802.11n(40M) 5.3G	Tx1	Back Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.128	0.130	-
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.271	0.275	037
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	62	5310	15.00	14.99	1.01	100.23%	0.205	0.208	-
WLAN 802.11n(40M) 5.3G	Tx1	Bottom Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.012	0.012	-
WLAN 802.11n(40M) 5.3G	Tx1	Right Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.004	0.004	-
WLAN 802.11n(40M) 5.3G	Tx1	Left Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.064	0.065	-
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	Tx1	Bottom Surface	0	106	5530	14.50	14.48	1.02	100.46%	0.019	0.019	-
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Surface	0	122	5610	16.50	16.46	1.02	100.93%	0.027	0.028	-
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Surface	0	138	5690	16.50	16.49	1.02	100.23%	0.034	0.035	027
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	138	5690	16.50	16.49	1.02	100.23%	0.116	0.118	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	106	5530	14.50	14.48	1.02	100.46%	0.245	0.250	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	122	5610	16.50	16.46	1.02	100.93%	0.227	0.233	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.264	0.269	038
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.010	0.010	-
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.004	0.004	-
WLAN 802.11ac(80M) 5.6G	Tx1	Left Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.058	0.059	-
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	Tx1	Bottom Surface	0	155	5775	16.50	16.47	1.02	100.69%	0.029	0.030	028
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	16.50	16.47	1.02	100.69%	0.135	0.138	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.294	0.300	039
WLAN 802.11ac(80M) 5.8G	Tx1	Bottom Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.012	0.012	-
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.005	0.005	-
WLAN 802.11ac(80M) 5.8G	Tx1	Left Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.073	0.075	-
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	Tx2	Bottom Surface	0	1	2412	19.00	18.91	1.01	102.09%	0.019	0.020	-
WLAN 802.11b	Tx2	Bottom Surface	0	6	2437	19.00	18.95	1.01	101.16%	0.023	0.024	-
WLAN 802.11b	Tx2	Bottom Surface	0	11	2462	19.00	18.99	1.01	100.23%	0.030	0.030	029
WLAN 802.11b	Tx2	Back Surface	0	11	2462	19.00	18.99	1.01	100.23%	0.289	0.293	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	19.00	18.91	1.01	102.09%	0.486	0.502	-
WLAN 802.11b	Tx2	Top Edge	0	6	2437	19.00	18.95	1.01	101.16%	0.507	0.519	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.525	0.532	040
WLAN 802.11b	Tx2	Bottom Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.018	0.018	-
WLAN 802.11b	Tx2	Right Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.006	0.006	-
WLAN 802.11b	Tx2	Left Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.089	0.090	-

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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	Tx2	Bottom Surface	0	38	5190	15.00	14.87	1.01	103.04%	0.030	0.031	-
WLAN 802.11n(40M) 5.2G	Tx2	Bottom Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.039	0.040	030
WLAN 802.11n(40M) 5.2G	Tx2	Back Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.296	0.300	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	38	5190	15.00	14.87	1.01	103.04%	0.568	0.592	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.596	0.605	041
WLAN 802.11n(40M) 5.2G	Tx2	Bottom Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.017	0.017	-
WLAN 802.11n(40M) 5.2G	Tx2	Right Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.008	0.008	-
WLAN 802.11n(40M) 5.2G	Tx2	Left Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.097	0.098	-
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	Tx2	Bottom Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.042	0.043	031
WLAN 802.11n(40M) 5.3G	Tx2	Bottom Surface	0	62	5310	15.00	14.97	1.01	100.69%	0.031	0.032	-
WLAN 802.11n(40M) 5.3G	Tx2	Back Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.287	0.291	-
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.583	0.591	042
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	62	5310	15.00	14.97	1.01	100.69%	0.562	0.573	-
WLAN 802.11n(40M) 5.3G	Tx2	Bottom Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.019	0.019	-
WLAN 802.11n(40M) 5.3G	Tx2	Right Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.007	0.007	-
WLAN 802.11n(40M) 5.3G	Tx2	Left Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.091	0.092	-
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	Tx2	Bottom Surface	0	106	5530	14.50	14.49	1.02	100.23%	0.012	0.012	-
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Surface	0	122	5610	16.50	16.40	1.02	102.33%	0.017	0.018	-
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Surface	0	138	5690	16.50	16.48	1.02	100.46%	0.021	0.021	032
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	16.50	16.48	1.02	100.46%	0.148	0.151	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	106	5530	14.50	14.49	1.02	100.23%	0.277	0.282	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	122	5610	16.50	16.40	1.02	102.33%	0.286	0.297	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.312	0.318	043
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.009	0.009	-
WLAN 802.11ac(80M) 5.6G	Tx2	Right Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.004	0.004	-
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.052	0.053	-
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	Tx2	Bottom Surface	0	155	5775	16.50	16.42	1.02	101.86%	0.023	0.024	033
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	16.50	16.42	1.02	101.86%	0.151	0.156	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.319	0.330	044
WLAN 802.11ac(80M) 5.8G	Tx2	Bottom Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.008	0.008	-
WLAN 802.11ac(80M) 5.8G	Tx2	Right Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.005	0.005	-
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.055	0.057	-

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

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Vendor 3

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	Tx1	Bottom Surface	0	1	2412	19.00	18.91	1.01	102.09%	0.009	0.009	-
WLAN 802.11b	Tx1	Bottom Surface	0	6	2437	19.00	18.99	1.01	100.23%	0.008	0.008	-
WLAN 802.11b	Tx1	Bottom Surface	0	11	2462	19.00	18.95	1.01	101.16%	0.010	0.010	045
WLAN 802.11b	Tx1	Back Surface	0	6	2437	19.00	18.99	1.01	100.23%	0.305	0.309	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	19.00	18.91	1.01	102.09%	0.436	0.450	-
WLAN 802.11b	Tx1	Top Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.471	0.477	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	19.00	18.95	1.01	101.16%	0.494	0.505	056
WLAN 802.11b	Tx1	Bottom Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.016	0.016	-
WLAN 802.11b	Tx1	Right Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.003	0.003	-
WLAN 802.11b	Tx1	Left Edge	0	6	2437	19.00	18.99	1.01	100.23%	0.124	0.126	-
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)	Tx1	Bottom Surface	0	00	2402	11.50	9.95	1.30	142.89%	0.007	0.013	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	39	2441	11.50	10.01	1.30	140.93%	0.008	0.015	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	78	2480	11.50	9.88	1.30	145.21%	0.009	0.017	046
Bluetooth(GFSK)	Tx1	Back Surface	0	39	2441	11.50	10.01	1.30	140.93%	0.048	0.088	-
Bluetooth(GFSK)	Tx1	Top Edge	0	00	2402	11.50	9.95	1.30	142.89%	0.095	0.177	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.102	0.187	-
Bluetooth(GFSK)	Tx1	Top Edge	0	78	2480	11.50	9.88	1.30	145.21%	0.109	0.206	057
Bluetooth(GFSK)	Tx1	Bottom Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.003	0.006	-
Bluetooth(GFSK)	Tx1	Right Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.001	0.002	-
Bluetooth(GFSK)	Tx1	Left Edge	0	39	2441	11.50	10.01	1.30	140.93%	0.021	0.039	-
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	Tx1	Bottom Surface	0	38	5190	15.00	14.88	1.01	102.80%	0.008	0.008	-
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.030	0.030	047
WLAN 802.11n(40M) 5.2G	Tx1	Back Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.334	0.339	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	38	5190	15.00	14.88	1.01	102.80%	0.403	0.419	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.556	0.564	058
WLAN 802.11n(40M) 5.2G	Tx1	Bottom Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.022	0.022	-
WLAN 802.11n(40M) 5.2G	Tx1	Right Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.008	0.008	-
WLAN 802.11n(40M) 5.2G	Tx1	Left Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.152	0.154	-
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	Tx1	Bottom Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.032	0.032	048
WLAN 802.11n(40M) 5.3G	Tx1	Bottom Surface	0	62	5310	15.00	14.99	1.01	100.23%	0.021	0.021	-
WLAN 802.11n(40M) 5.3G	Tx1	Back Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.351	0.356	-
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.729	0.739	059
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	62	5310	15.00	14.99	1.01	100.23%	0.531	0.539	-
WLAN 802.11n(40M) 5.3G	Tx1	Bottom Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.037	0.038	-
WLAN 802.11n(40M) 5.3G	Tx1	Right Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.011	0.011	-
WLAN 802.11n(40M) 5.3G	Tx1	Left Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.176	0.179	-
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	Tx1	Bottom Surface	0	106	5530	14.50	14.48	1.02	100.46%	0.016	0.016	-
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Surface	0	122	5610	16.50	16.46	1.02	100.93%	0.014	0.014	-
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Surface	0	138	5690	16.50	16.49	1.02	100.23%	0.020	0.020	049
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	138	5690	16.50	16.49	1.02	100.23%	0.526	0.535	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	106	5530	14.50	14.48	1.02	100.46%	0.694	0.708	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	122	5610	16.50	16.46	1.02	100.93%	0.975	0.999	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	16.50	16.49	1.02	100.23%	1.060	1.078	060
WLAN 802.11ac(80M) 5.6G	Tx1	Bottom Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.058	0.059	-
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.019	0.019	-
WLAN 802.11ac(80M) 5.6G	Tx1	Left Edge	0	138	5690	16.50	16.49	1.02	100.23%	0.295	0.300	-
WLAN 802.11ac(80M) 5.6G*	Tx1	Top Edge	0	138	5690	16.50	16.49	1.02	100.23%	1.030	1.048	-
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	Tx1	Bottom Surface	0	155	5775	16.50	16.47	1.02	100.69%	0.011	0.011	050
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	16.50	16.47	1.02	100.69%	0.618	0.632	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	16.50	16.47	1.02	100.69%	1.010	1.032	061
WLAN 802.11ac(80M) 5.8G	Tx1	Bottom Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.047	0.048	-
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.015	0.015	-
WLAN 802.11ac(80M) 5.8G	Tx1	Left Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.362	0.370	-
WLAN 802.11ac(80M) 5.8G*	Tx1	Top Edge	0	155	5775	16.50	16.47	1.02	100.69%	0.988	1.010	-
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	Tx2	Bottom Surface	0	1	2412	19.00	18.91	1.01	102.09%	0.010	0.010	-
WLAN 802.11b	Tx2	Bottom Surface	0	6	2437	19.00	18.95	1.01	101.16%	0.008	0.008	-
WLAN 802.11b	Tx2	Bottom Surface	0	11	2462	19.00	18.99	1.01	100.23%	0.011	0.011	051
WLAN 802.11b	Tx2	Back Surface	0	11	2462	19.00	18.99	1.01	100.23%	0.311	0.315	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	19.00	18.91	1.01	102.09%	0.513	0.530	-
WLAN 802.11b	Tx2	Top Edge	0	6	2437	19.00	18.95	1.01	101.16%	0.542	0.554	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.579	0.587	062
WLAN 802.11b	Tx2	Bottom Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.025	0.025	-
WLAN 802.11b	Tx2	Right Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.006	0.006	-
WLAN 802.11b	Tx2	Left Edge	0	11	2462	19.00	18.99	1.01	100.23%	0.103	0.104	-

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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	Tx2	Bottom Surface	0	38	5190	15.00	14.87	1.01	103.04%	0.024	0.025	-
WLAN 802.11n(40M) 5.2G	Tx2	Bottom Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.043	0.044	062
WLAN 802.11n(40M) 5.2G	Tx2	Back Surface	0	46	5230	16.50	16.49	1.01	100.23%	0.706	0.716	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	38	5190	15.00	14.87	1.01	103.04%	0.738	0.770	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	1.040	1.055	063
WLAN 802.11n(40M) 5.2G	Tx2	Bottom Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.044	0.045	-
WLAN 802.11n(40M) 5.2G	Tx2	Right Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.014	0.014	-
WLAN 802.11n(40M) 5.2G	Tx2	Left Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.288	0.292	-
WLAN 802.11n(40M) 5.2G*	Tx2	Top Edge	0	46	5230	16.50	16.49	1.01	100.23%	0.992	1.006	-
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 802.11n(40M) 5.3G	Tx2	Bottom Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.040	0.041	053
WLAN 802.11n(40M) 5.3G	Tx2	Bottom Surface	0	62	5310	15.00	14.97	1.01	100.69%	0.018	0.018	-
WLAN 802.11n(40M) 5.3G	Tx2	Back Surface	0	54	5270	16.50	16.49	1.01	100.23%	0.608	0.617	-
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	1.140	1.156	064
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	62	5310	15.00	14.97	1.01	100.69%	0.788	0.803	-
WLAN 802.11n(40M) 5.3G	Tx2	Bottom Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.037	0.038	-
WLAN 802.11n(40M) 5.3G	Tx2	Right Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.012	0.012	-
WLAN 802.11n(40M) 5.3G	Tx2	Left Edge	0	54	5270	16.50	16.49	1.01	100.23%	0.271	0.275	-
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	54	5270	16.50	16.49	1.01	100.23%	1.030	1.045	-
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	Tx2	Bottom Surface	0	106	5530	14.50	14.49	1.02	100.23%	0.015	0.015	-
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Surface	0	122	5610	16.50	16.40	1.02	102.33%	0.013	0.014	-
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Surface	0	138	5690	16.50	16.48	1.02	100.46%	0.019	0.019	054
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	16.50	16.48	1.02	100.46%	0.584	0.595	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	106	5530	14.50	14.49	1.02	100.23%	0.705	0.717	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	122	5610	16.50	16.40	1.02	102.33%	0.935	0.971	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	16.50	16.48	1.02	100.46%	1.080	1.101	065
WLAN 802.11ac(80M) 5.6G	Tx2	Bottom Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.032	0.033	-
WLAN 802.11ac(80M) 5.6G	Tx2	Right Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.009	0.009	-
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	16.50	16.48	1.02	100.46%	0.250	0.255	-
WLAN 802.11ac(80M) 5.6G*	Tx2	Top Edge	0	138	5690	16.50	16.48	1.02	100.46%	1.090	1.111	-
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	Tx2	Bottom Surface	0	155	5775	16.50	16.42	1.02	101.86%	0.014	0.014	055
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	16.50	16.42	1.02	101.86%	0.488	0.505	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.841	0.869	066
WLAN 802.11ac(80M) 5.8G	Tx2	Bottom Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.018	0.019	-
WLAN 802.11ac(80M) 5.8G	Tx2	Right Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.007	0.007	-
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.209	0.216	-
WLAN 802.11ac(80M) 5.8G*	Tx2	Top Edge	0	155	5775	16.50	16.42	1.02	101.86%	0.836	0.864	-

* - 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 + WLAN 2.4GHz Aux + BT Aux
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux

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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

Vendor 1

Exposure Position		Reported SAR					Scenario 1	Scenario 2
		1	2	3	4	5	1+2+5	3+4+5
		2.4GHz WLAN Tx1	2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	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)
Bottom Surface	0	0.017	0.019	0.047	0.028	0.013	0.049	0.088
Back Surface	0	0.237	0.239	0.335	0.496	0.114	0.590	0.945
Top Edge	0	0.489	0.692	0.662	1.002	0.180	1.361	1.844
Bottom Edge	0	0.019	0.020	0.024	0.031	0.020	0.059	0.075
Right Edge	0	0.006	0.148	0.008	0.208	0.004	0.158	0.220
Left Edge	0	0.109	0.013	0.159	0.010	0.088	0.210	0.257

Vendor 2

Exposure Position		Reported SAR					Scenario 1	Scenario 2
		1	2	3	4	5	1+2+5	3+4+5
		2.4GHz WLAN Tx1	2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	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)
Bottom Surface	0	0.026	0.030	0.035	0.043	0.023	0.079	0.101
Back Surface	0	0.464	0.293	0.186	0.300	0.040	0.797	0.526
Top Edge	0	1.105	0.532	0.339	0.605	0.131	1.768	1.075
Bottom Edge	0	0.084	0.018	0.013	0.019	0.004	0.106	0.036
Right Edge	0	0.026	0.006	0.005	0.008	0.002	0.034	0.015
Left Edge	0	0.286	0.090	0.083	0.098	0.018	0.394	0.199

Vendor 3

Exposure Position		Reported SAR					Scenario 1	Scenario 2
		1	2	3	4	5	1+2+5	3+4+5
		2.4GHz WLAN Tx1	2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	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)
Bottom Surface	0	0.010	0.011	0.032	0.044	0.017	0.038	0.093
Back Surface	0	0.309	0.315	0.632	0.716	0.088	0.712	1.436
Top Edge	0	0.505	0.587	1.078	1.156	0.206	1.298	2.440
Bottom Edge	0	0.016	0.025	0.059	0.045	0.006	0.047	0.110
Right Edge	0	0.003	0.006	0.019	0.014	0.002	0.011	0.035
Left Edge	0	0.126	0.104	0.370	0.292	0.039	0.269	0.701

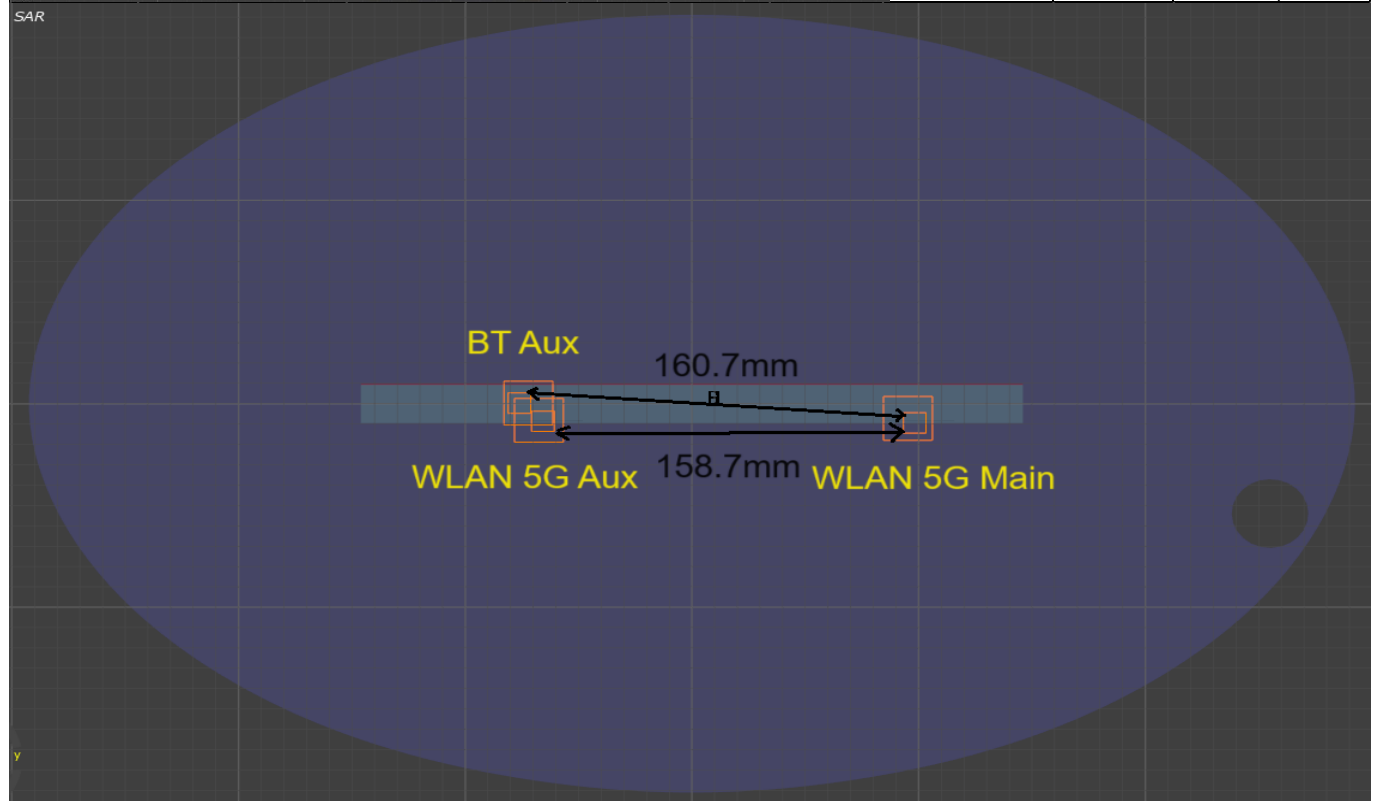
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SPLSR Vendor 1

Scenario 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WLAN 5G Main	0.662	0.21	7.67	-17.70	-	-	-	-
	WLAN 5G Aux	1.002	0.16	-8.20	-17.70	1.664	158.70	0.014	SPLSR ≤ 0.04, Not required
	BT Aux	0.180	0.15	-8.40	-17.70	0.842	160.70	0.005	SPLSR ≤ 0.04, Not required



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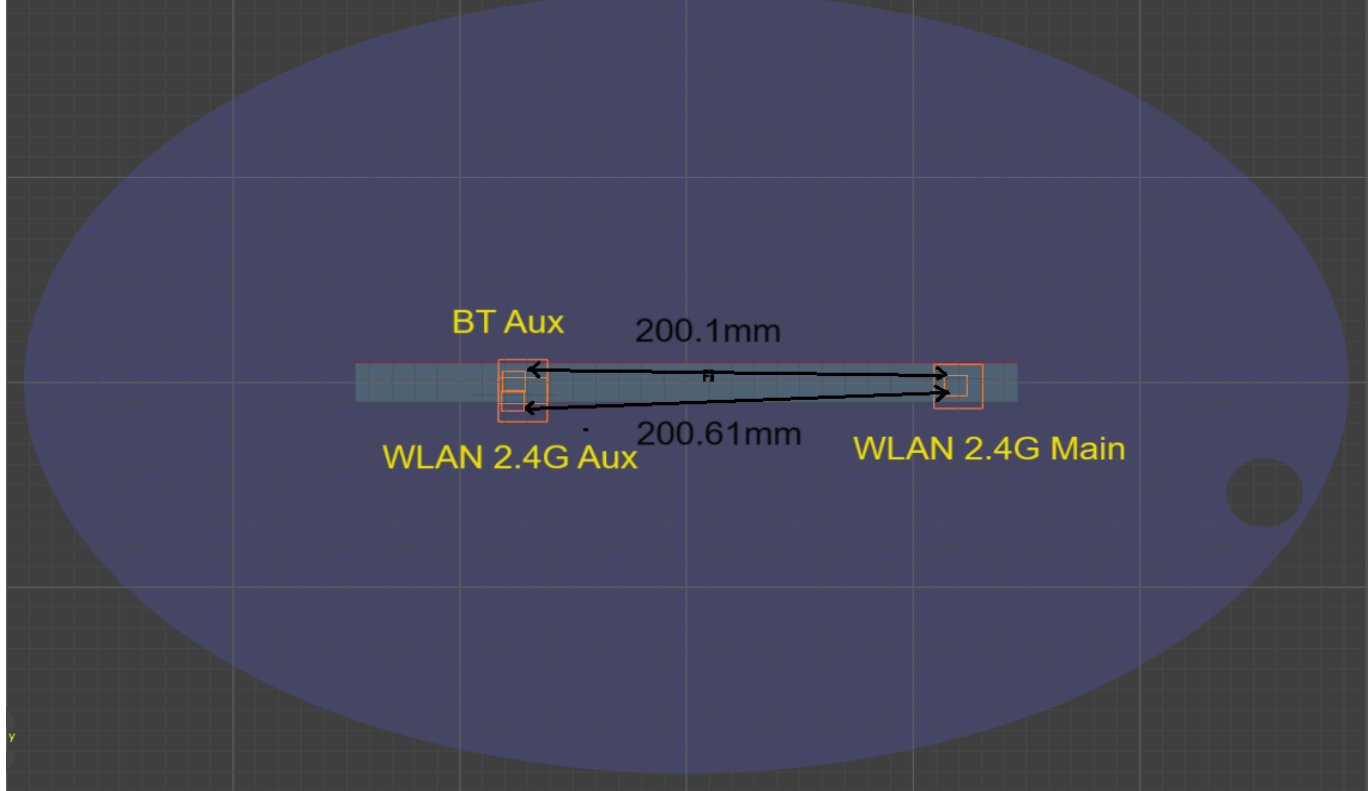
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Vendor 2

Scenario 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WLAN 2.4G Main	1.105	-0.80	12.35	-17.70	-	-	-	-
	WLAN 2.4G Aux	0.532	-0.15	-7.70	-17.70	1.637	200.61	0.010	SPLSR $\leq$ 0.04, Not required
	BT Aux	0.131	-0.17	-7.65	-17.70	1.236	200.10	0.007	SPLSR $\leq$ 0.04, Not required

SAR



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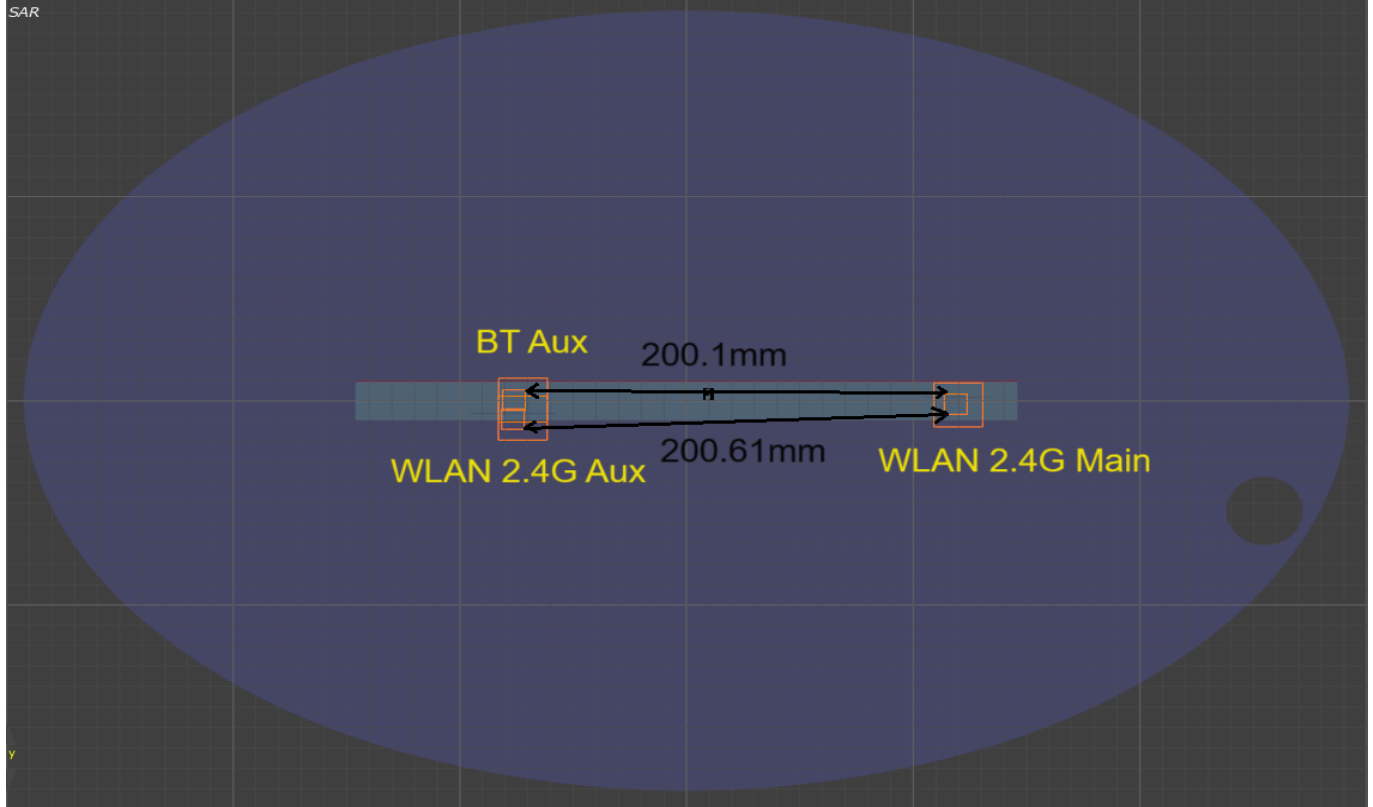
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Vendor 3

Scenario 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WLAN 5G Main	1.078	-0.32	9.89	-17.70	-	-	-	-
	WLAN 5G Aux	1.156	-0.07	-8.48	-17.70	2.234	183.72	0.018	SPLSR $\leq$ 0.04, Not required
	BT Aux	0.206	-0.22	-8.33	-17.72	1.284	182.20	0.008	SPLSR $\leq$ 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	1824	Jul/15/2024	Jul/14/2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Apr/18/2024	Apr/17/2025
SPEAG	System Validation Dipole	D2450V2	727	Apr/22/2024	Apr/21/2025
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/24/2024	Jan/23/2025
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/21/2024	Feb/20/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	772D	MY48220468	Sep/03/2024	Sep/02/2025
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required
R&S	Power Meter	NRX	102034	Dec/13/2023	Dec/12/2024
R&S	Power Sensor	NRP18S	101974	Nov/21/2023	Nov/20/2024
R&S	Power Sensor	NRP18S	109066	Oct/23/2023	Oct/22/2024
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
Keysight	EXA Signal Analyzer	N9010B	MY59071571	Jun/04/2024	Jun/03/2025
TECPEL	Digital thermometer	DTM-303A	TP131515	May/23/2024	May/22/2025

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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 Distributio	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%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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 shell	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.)	3.09%	N	1	1	0.64	0.43	1.98%	1.33%	M
Liquid Conductivity (mea.)	3.13%	N	1	1	0.6	0.49	1.88%	1.53%	M
Combined standard uncertainty		RSS					12.03%	11.88%	
Expart uncertainty (95% confidence interval), K=2							24.06%	23.76%	

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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/ 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.)	1.18%	N	1	1	0.64	0.43	0.76%	0.51%	M
Liquid Conductivity (mea.)	1.22%	N	1	1	0.6	0.49	0.73%	0.60%	M
Combined standard uncertainty		RSS					11.47%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.93%	22.87%	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx1

Ambient temperature: 22.4°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	2462.0, 11	7.76	1.795	38.742

Hardware Setup

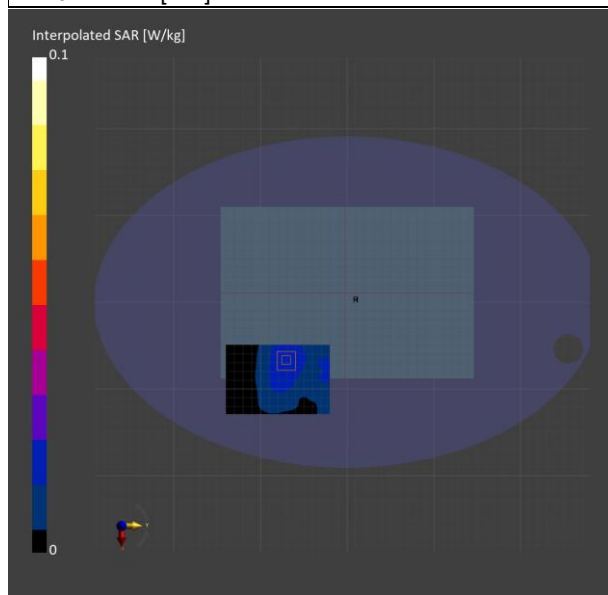
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.019	0.017
psSAR8g [W/kg]	0.012	0.008
psSAR10g [W/kg]	0.011	0.007
Power Drift [dB]	0.16	0.16
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		11.0



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ID: 002

Report No. :TESA2409000542EN

Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH 78_0mm_Tx1

Ambient temperature: 22.4°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	2480.0, 78	7.76	1.812	38.715

Hardware Setup

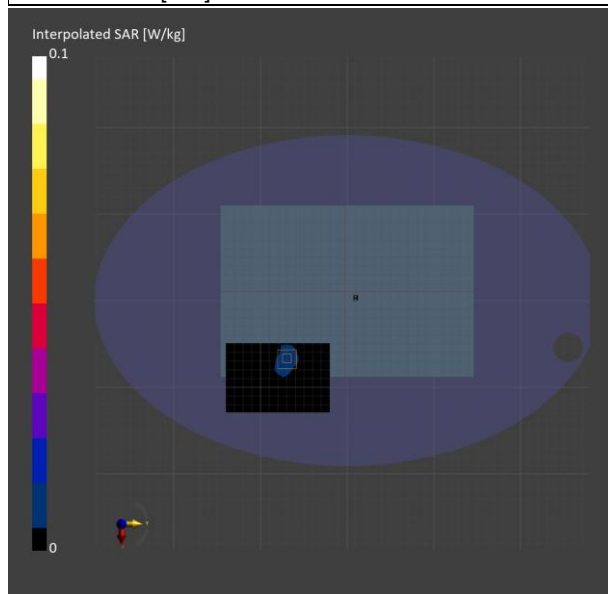
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.008	0.007
psSAR8g [W/kg]	0.005	0.003
psSAR10g [W/kg]	0.005	0.003
Power Drift [dB]	0.10	-0.17
M2/M1 [%]		61.5
Dist 3dB Peak [mm]		37.4



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ID: 003

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	5230.0, 46	5.49	4.786	36.648

Hardware Setup

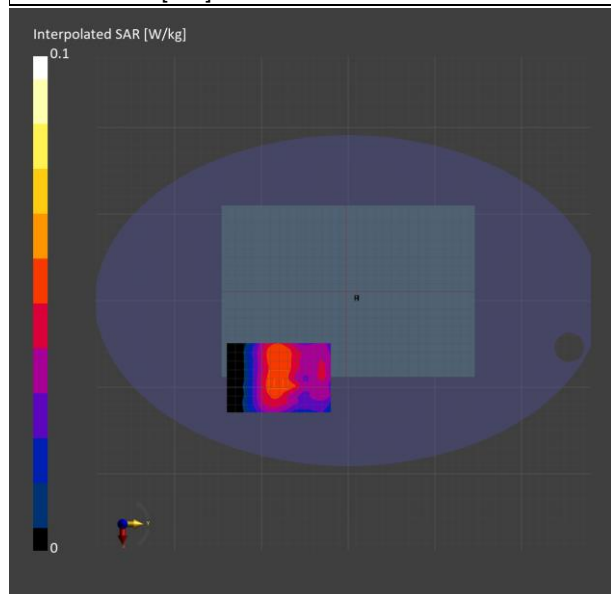
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.045	0.046
psSAR8g [W/kg]	0.023	0.022
psSAR10g [W/kg]	0.021	0.020
Power Drift [dB]	0.16	-0.18
M2/M1 [%]		71.3
Dist 3dB Peak [mm]		8.0



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ID: 004

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	5270.0, 54	5.49	4.832	36.571

Hardware Setup

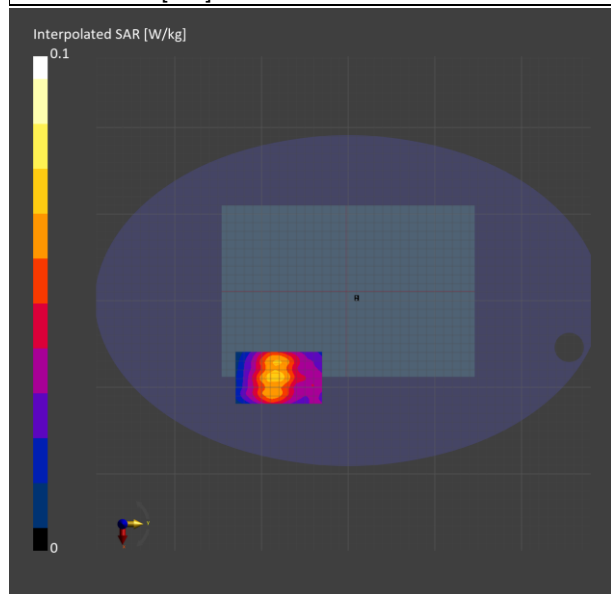
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.056	0.046
psSAR8g [W/kg]	0.028	0.022
psSAR10g [W/kg]	0.026	0.020
Power Drift [dB]	0.13	-0.14
M2/M1 [%]		71.3
Dist 3dB Peak [mm]		10.0



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ID: 005

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx1

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	5690.0, 138	4.89	5.283	36.171

Hardware Setup

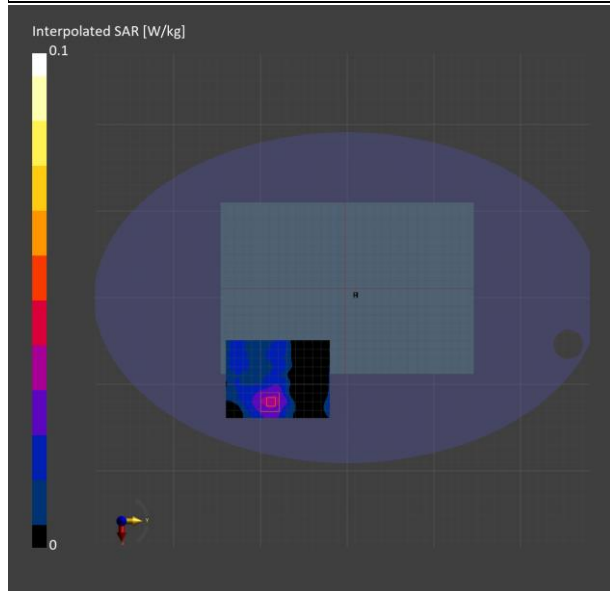
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.028	0.030
psSAR8g [W/kg]	0.014	0.014
psSAR10g [W/kg]	0.013	0.012
Power Drift [dB]	0.15	-0.13
M2/M1 [%]		67.5
Dist 3dB Peak [mm]		11.0



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ID: 006

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx1

Ambient temperature: 22.2°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	Bottom Surface, 0.00	5775.0, 155	4.89	5.378	36.056

Hardware Setup

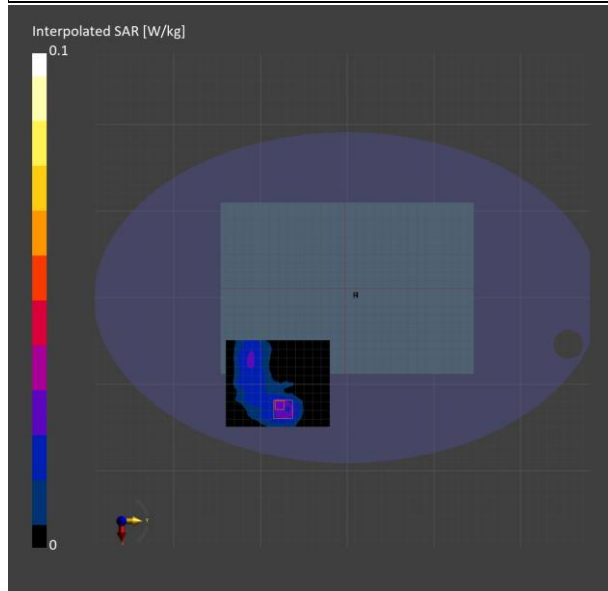
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.022	0.021
psSAR8g [W/kg]	0.011	0.008
psSAR10g [W/kg]	0.01	0.007
Power Drift [dB]	0.16	0.14
M2/M1 [%]		68.6
Dist 3dB Peak [mm]		11.0



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ID: 007

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx2

Ambient temperature: 22.4°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	2462.0, 11	7.76	1.795	38.742

Hardware Setup

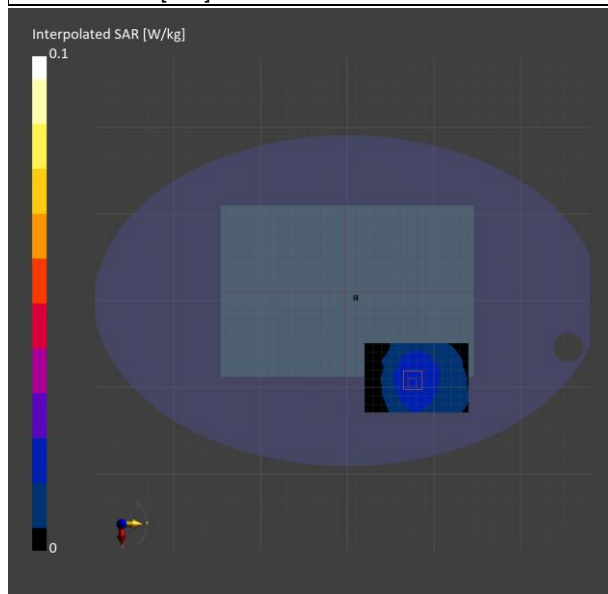
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.018	0.019
psSAR8g [W/kg]	0.012	0.013
psSAR10g [W/kg]	0.011	0.012
Power Drift [dB]	0.10	0.13
M2/M1 [%]		84.2
Dist 3dB Peak [mm]		15.0



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ID: 008

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	5230.0, 46	5.49	4.786	36.648

Hardware Setup

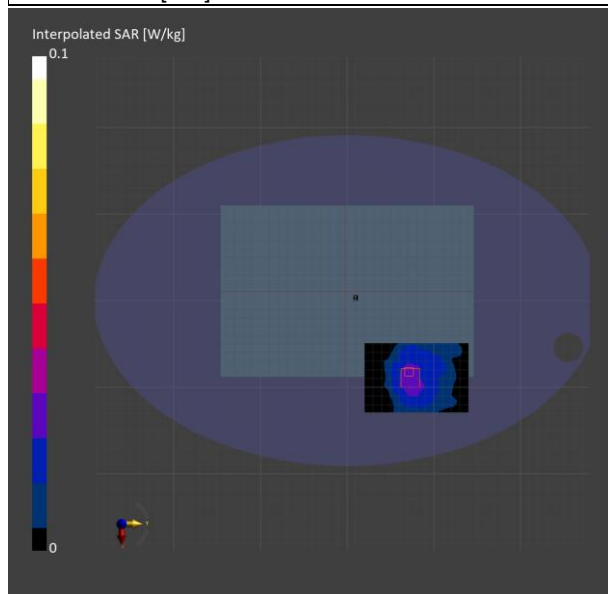
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.022	0.026
psSAR8g [W/kg]	0.011	0.016
psSAR10g [W/kg]	0.010	0.015
Power Drift [dB]	0.19	-0.11
M2/M1 [%]		87.6
Dist 3dB Peak [mm]		11.0



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ID: 009

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	5270.0, 54	5.49	4.832	36.571

Hardware Setup

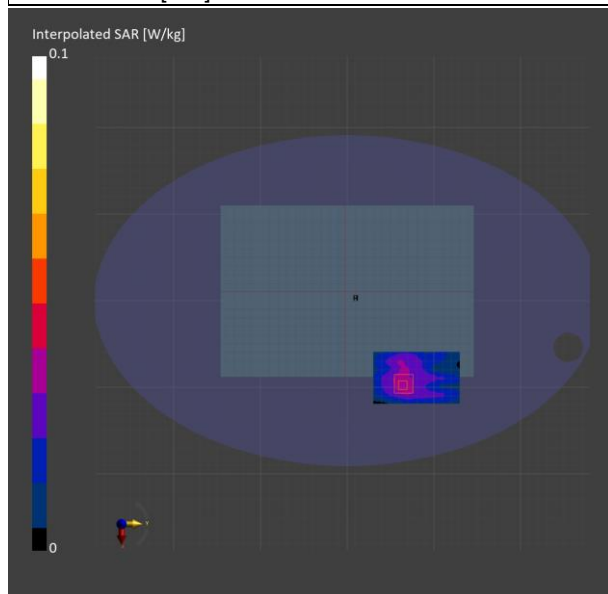
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.028	0.028
psSAR8g [W/kg]	0.014	0.018
psSAR10g [W/kg]	0.013	0.017
Power Drift [dB]	-0.13	-0.13
M2/M1 [%]		90.7
Dist 3dB Peak [mm]		11.0



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ID: 010

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx2

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	5690.0, 138	4.82	5.283	36.171

Hardware Setup

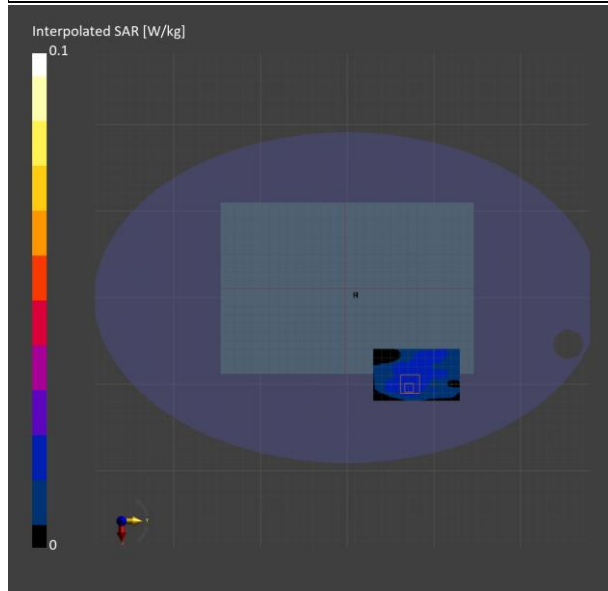
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.019	0.016
psSAR8g [W/kg]	0.009	0.01
psSAR10g [W/kg]	0.008	0.009
Power Drift [dB]	-0.19	-0.14
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		19.2



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ID: 011

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx2

Ambient temperature: 22.2°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	Bottom Surface, 0.00	5775.0, 155	4.89	5.378	36.056

Hardware Setup

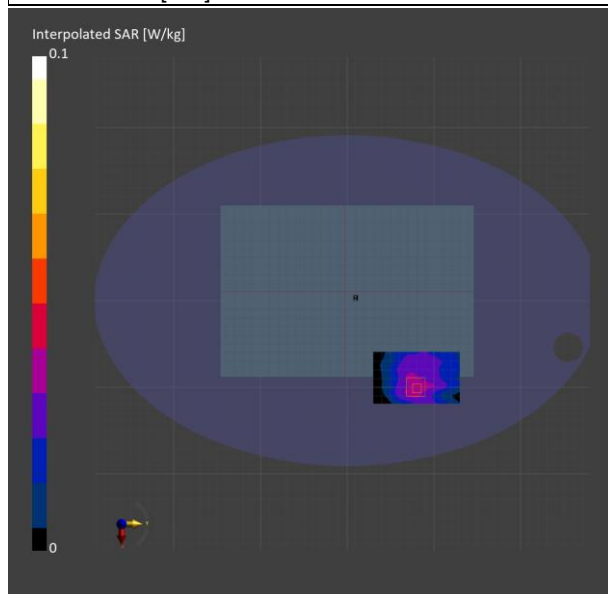
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.030	0.026
psSAR8g [W/kg]	0.014	0.017
psSAR10g [W/kg]	0.013	0.016
Power Drift [dB]	0.15	0.13
M2/M1 [%]		95.3
Dist 3dB Peak [mm]		11.0



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ID: 012

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx1

Ambient temperature: 22.4°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	Top Edge, 0.00	2462.0, 11	7.76	1.795	38.742

Hardware Setup

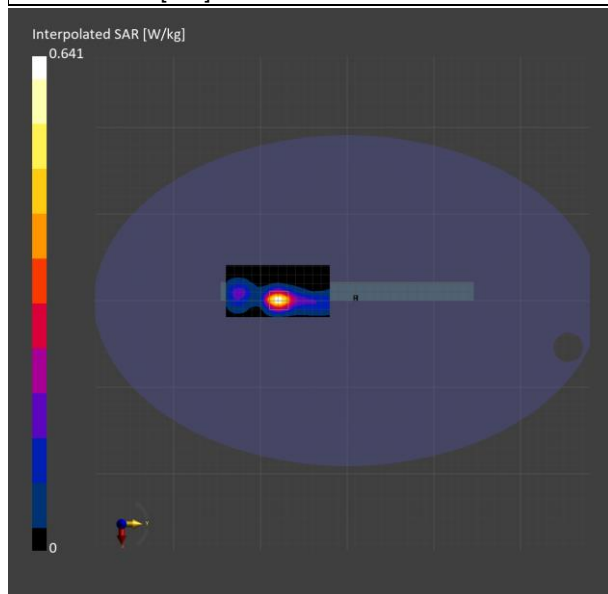
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.465	0.478
psSAR8g [W/kg]	0.222	0.232
psSAR10g [W/kg]	0.199	0.209
Power Drift [dB]	-0.07	0.06
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		8.0



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ID: 013

Report No. :TESA2409000542EN

Measurement Report_Bluetooth(GFSK)_Body_Top Edge_CH 78_0mm_Tx1

Ambient temperature: 22.4°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	Top Edge, 0.00	2480.0, 78	7.76	1.812	38.715

Hardware Setup

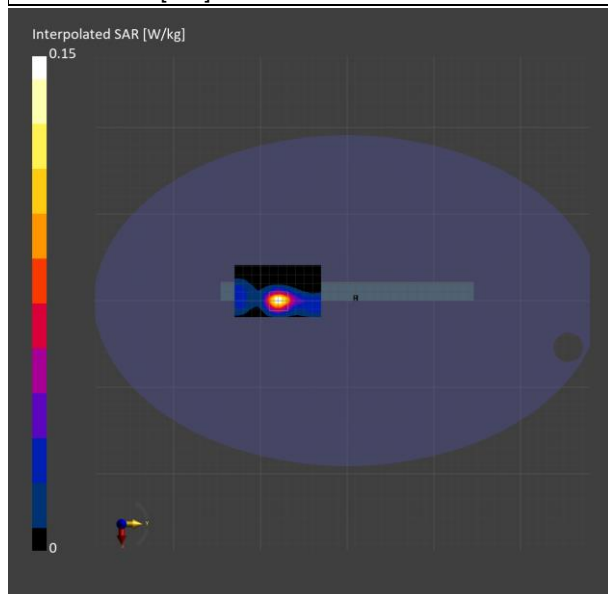
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.108	0.095
psSAR8g [W/kg]	0.052	0.049
psSAR10g [W/kg]	0.046	0.044
Power Drift [dB]	0.12	0.10
M2/M1 [%]		79.9
Dist 3dB Peak [mm]		7.1



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5230.0, 46	5.49	4.786	36.648

Hardware Setup

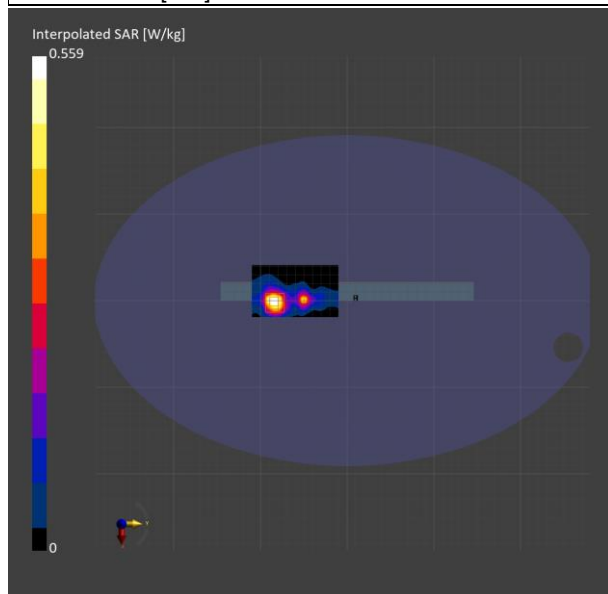
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.412	0.474
psSAR8g [W/kg]	0.168	0.182
psSAR10g [W/kg]	0.148	0.159
Power Drift [dB]	0.15	0.10
M2/M1 [%]		66.5
Dist 3dB Peak [mm]		8.6



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5270.0, 54	5.49	4.832	36.571

Hardware Setup

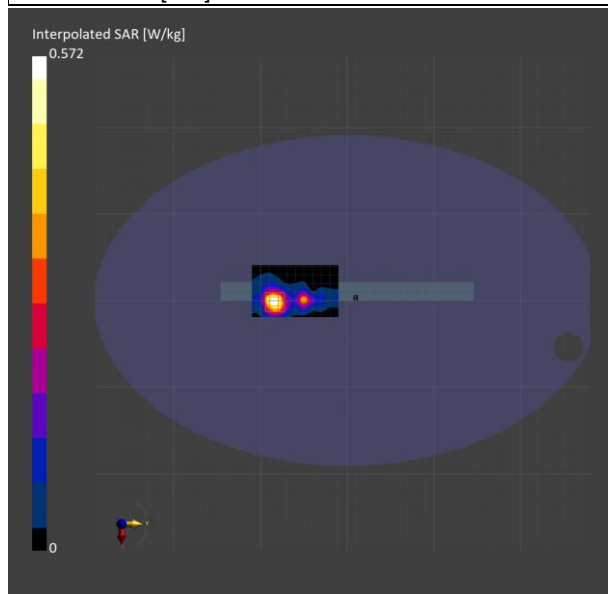
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.422	0.477
psSAR8g [W/kg]	0.171	0.183
psSAR10g [W/kg]	0.151	0.160
Power Drift [dB]	0.11	-0.07
M2/M1 [%]		66.3
Dist 3dB Peak [mm]		8.6



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx1

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5690.0, 138	4.89	5.283	36.171

Hardware Setup

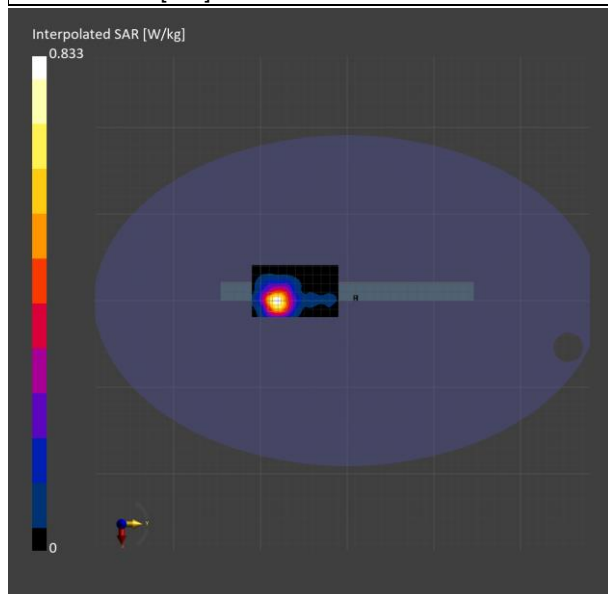
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.604	0.660
psSAR8g [W/kg]	0.254	0.270
psSAR10g [W/kg]	0.227	0.240
Power Drift [dB]	0.10	-0.13
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		10.1



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx1

Ambient temperature: 22.2°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	Top Edge, 0.00	5775.0, 155	4.89	5.378	36.056

Hardware Setup

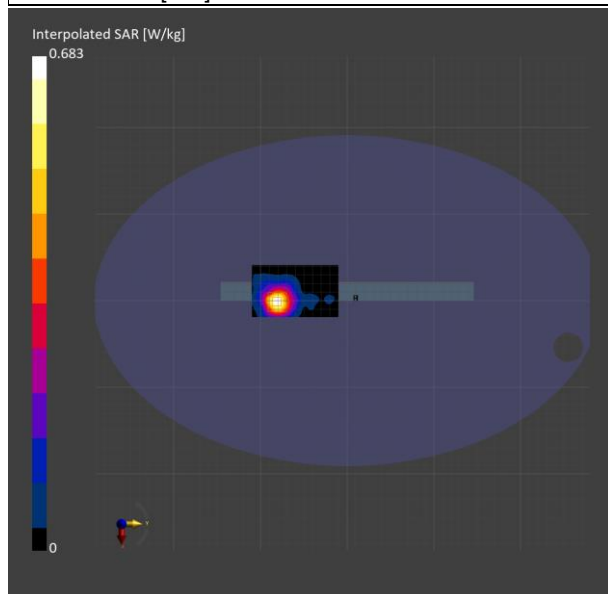
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.501	0.546
psSAR8g [W/kg]	0.212	0.221
psSAR10g [W/kg]	0.190	0.196
Power Drift [dB]	0.09	-0.17
M2/M1 [%]		63.3
Dist 3dB Peak [mm]		9.1



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ID: 018

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx2

Ambient temperature: 22.4°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	Top Edge, 0.00	2462.0, 11	7.76	1.795	38.742

Hardware Setup

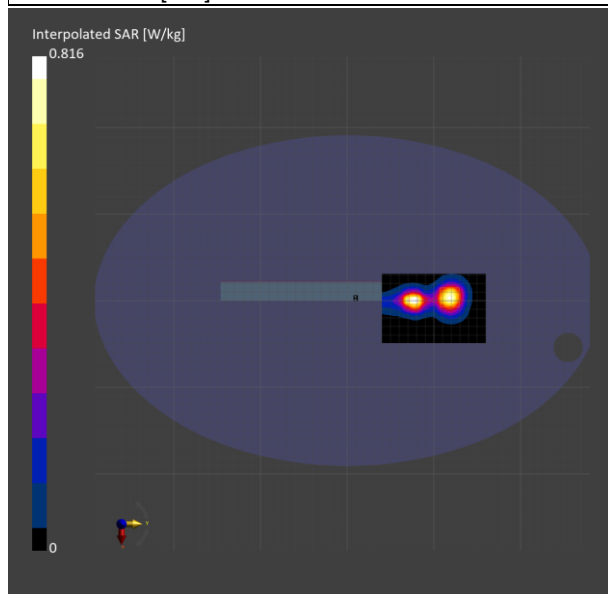
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.620	0.683
psSAR8g [W/kg]	0.326	0.339
psSAR10g [W/kg]	0.297	0.305
Power Drift [dB]	0.02	0.05
M2/M1 [%]		88.4
Dist 3dB Peak [mm]		13.0



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ID: 019

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5230.0, 46	5.49	4.786	36.648

Hardware Setup

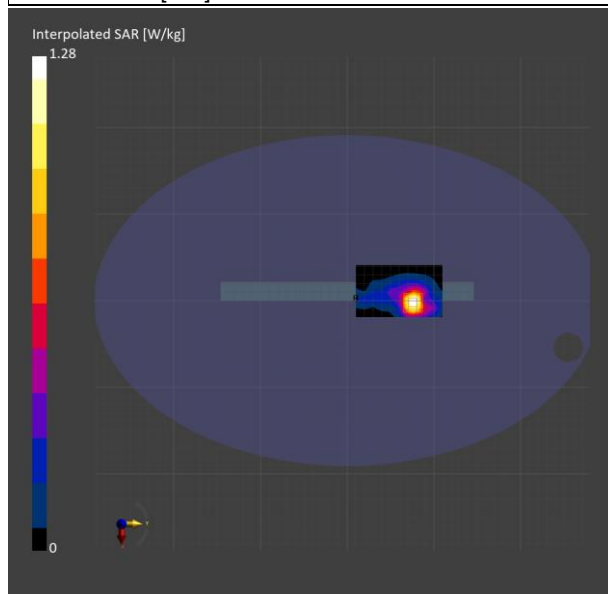
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.948	0.988
psSAR8g [W/kg]	0.408	0.424
psSAR10g [W/kg]	0.365	0.377
Power Drift [dB]	0.06	0.02
M2/M1 [%]		65.9
Dist 3dB Peak [mm]		10.4



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ID: 020

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5270.0, 54	5.49	4.832	36.571

Hardware Setup

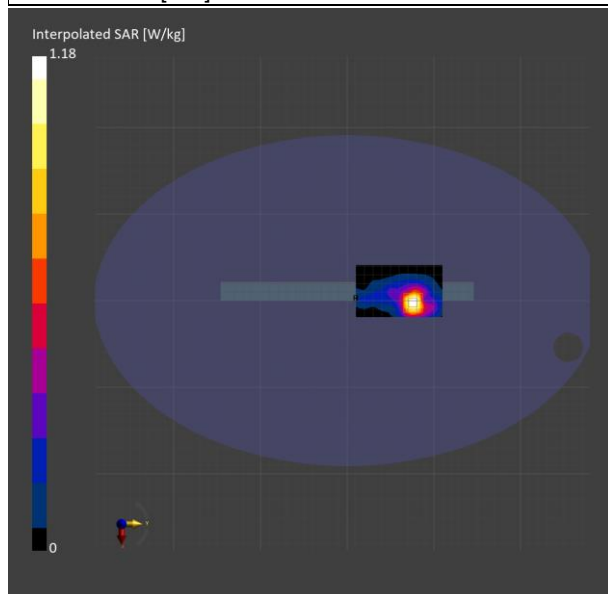
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.877	0.936
psSAR8g [W/kg]	0.379	0.399
psSAR10g [W/kg]	0.338	0.354
Power Drift [dB]	0.02	0.11
M2/M1 [%]		65.6
Dist 3dB Peak [mm]		10.2



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ID: 021

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx2

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5690.0, 138	4.89	5.283	36.171

Hardware Setup

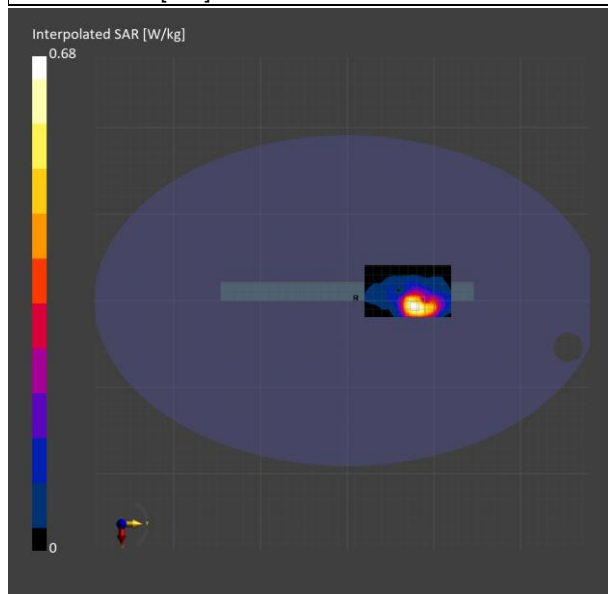
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.507	0.490
psSAR8g [W/kg]	0.222	0.215
psSAR10g [W/kg]	0.200	0.193
Power Drift [dB]	-0.03	-0.09
M2/M1 [%]		67.2
Dist 3dB Peak [mm]		11.7



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ID: 022

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx2

Ambient temperature: 22.2°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	Top Edge, 0.00	5775.0, 155	4.89	5.378	36.056

Hardware Setup

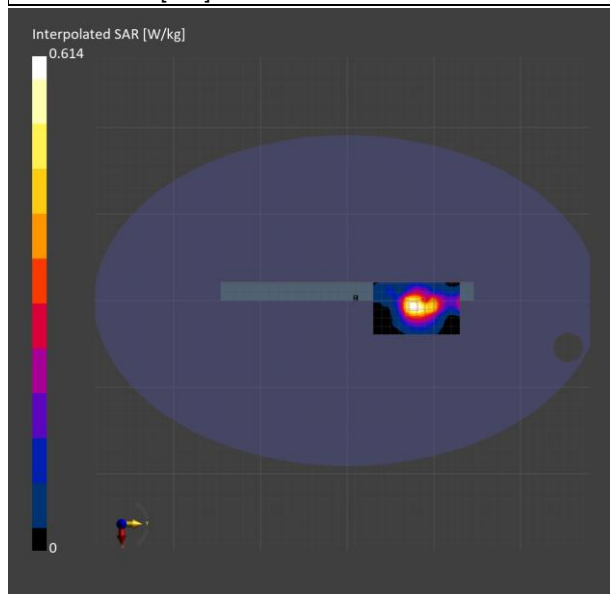
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.466	0.460
psSAR8g [W/kg]	0.203	0.200
psSAR10g [W/kg]	0.183	0.179
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		66.4
Dist 3dB Peak [mm]		11.5



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ID: 023

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	2462.0, 11	7.76	1.835	39.642

Hardware Setup

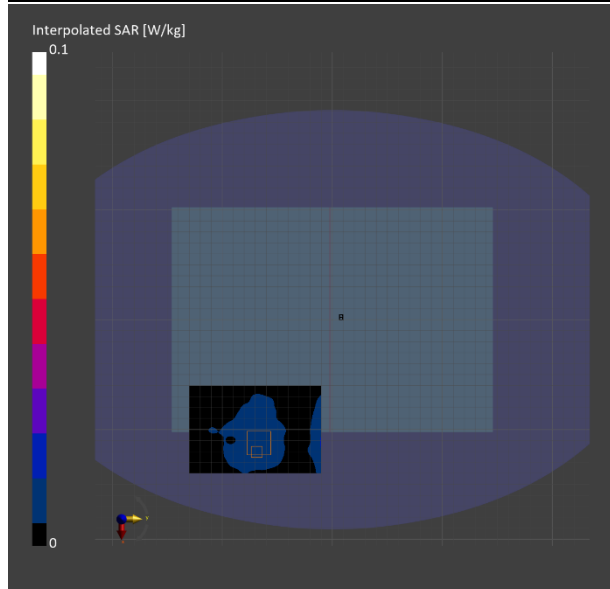
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.012	0.025
psSAR8g [W/kg]	0.007	0.015
psSAR10g [W/kg]	0.007	0.014
Power Drift [dB]	0.16	-0.13
M2/M1 [%]		75.7
Dist 3dB Peak [mm]		18.1



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ID: 024

Report No. :TESA2409000542EN

Measurement Report _Bluetooth(GFSK)_Body_Bottom Surface_CH 78_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	2480.0, 78	7.76	1.854	39.624

Hardware Setup

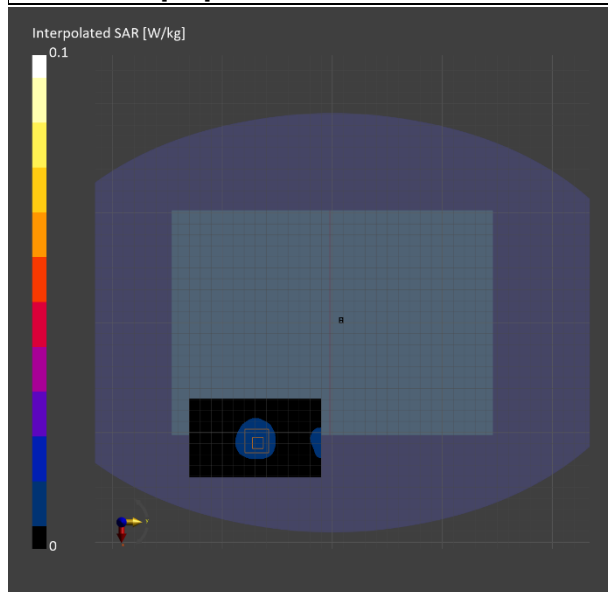
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.012	0.012
psSAR8g [W/kg]	0.007	0.007
psSAR10g [W/kg]	0.007	0.006
Power Drift [dB]	0.12	0.15
M2/M1 [%]		86.9
Dist 3dB Peak [mm]		18.9



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx1

Ambient temperature: 22.2°C; Liquid temperature: 22.0°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	5230.0, 46	5.49	4.591	35.216

Hardware Setup

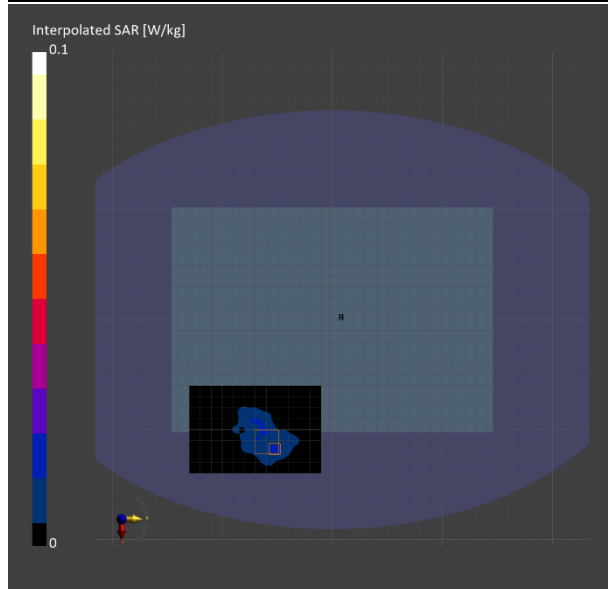
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.013	0.013
psSAR8g [W/kg]	0.006	0.004
psSAR10g [W/kg]	0.006	0.003
Power Drift [dB]	0.09	0.01
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		8.7



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx1

Ambient temperature: 22.2°C; Liquid temperature: 22.0°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	5270.0, 54	5.49	4.629	35.171

Hardware Setup

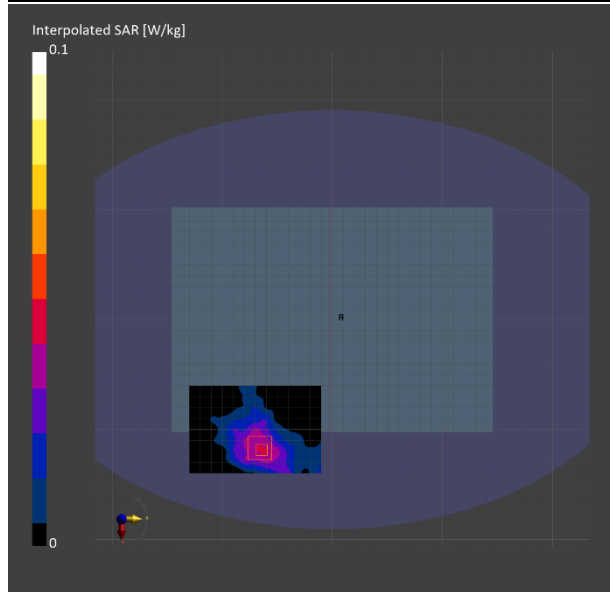
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.032	0.033
psSAR8g [W/kg]	0.016	0.014
psSAR10g [W/kg]	0.015	0.012
Power Drift [dB]	-0.15	0.06
M2/M1 [%]		66.3
Dist 3dB Peak [mm]		18.2



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ID: 027

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx1

Ambient temperature: 22.3°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	5690.0, 138	4.89	5.203	35.699

Hardware Setup

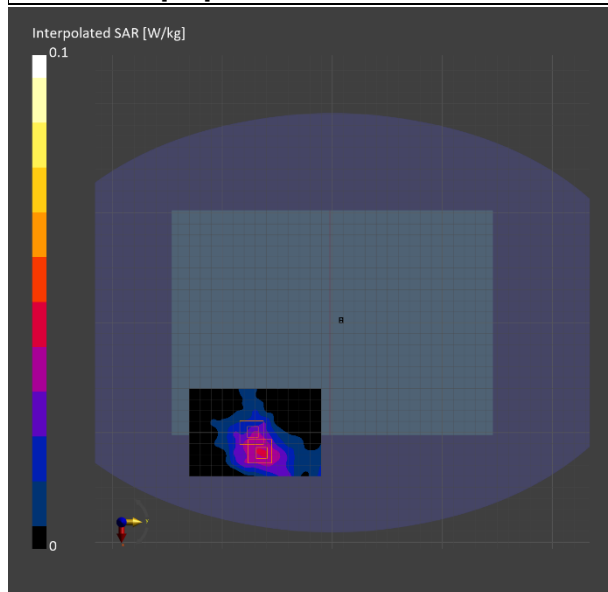
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.038	0.034
psSAR8g [W/kg]	0.016	0.012
psSAR10g [W/kg]	0.014	0.01
Power Drift [dB]	0.13	-0.04
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		8.4



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ID: 028

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx1

Ambient temperature: 22.3°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	5775.0, 155	4.89	5.289	35.618

Hardware Setup

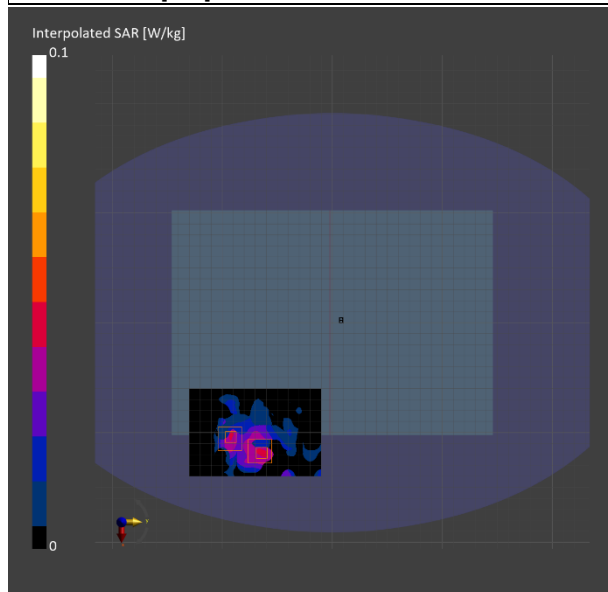
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.032	0.029
psSAR8g [W/kg]	0.013	0.009
psSAR10g [W/kg]	0.012	0.008
Power Drift [dB]	0.11	0.10
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		8.0



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ID: 029

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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	2462.0, 11	7.76	1.835	39.642

Hardware Setup

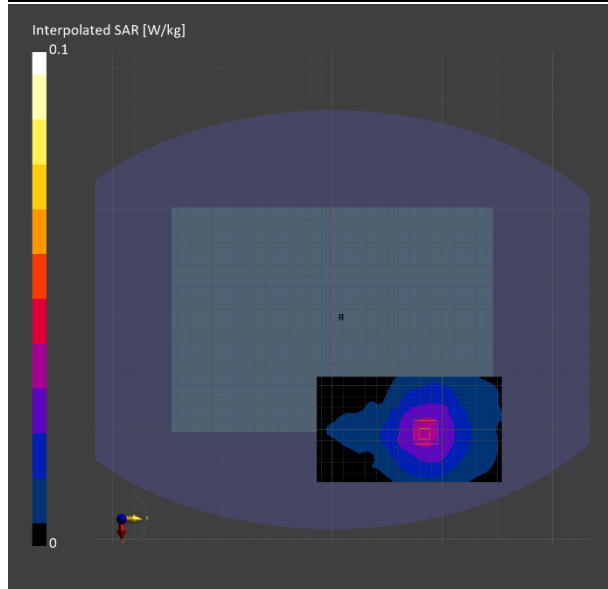
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.030	0.030
psSAR8g [W/kg]	0.019	0.019
psSAR10g [W/kg]	0.018	0.018
Power Drift [dB]	0.09	0.03
M2/M1 [%]		82.8
Dist 3dB Peak [mm]		17.0



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ID: 030

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx2

Ambient temperature: 22.2°C; Liquid temperature: 22.0°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	5230.0, 46	5.49	4.591	35.216

Hardware Setup

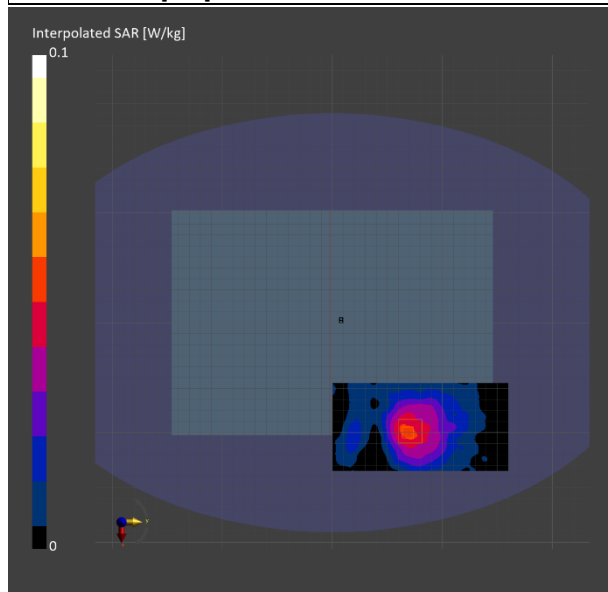
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.040	0.039
psSAR8g [W/kg]	0.020	0.018
psSAR10g [W/kg]	0.018	0.016
Power Drift [dB]	0.15	0.13
M2/M1 [%]		63.8
Dist 3dB Peak [mm]		15.5



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ID: 031

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx2

Ambient temperature: 22.2°C; Liquid temperature: 22.0°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	5270.0, 54	5.49	4.629	35.171

Hardware Setup

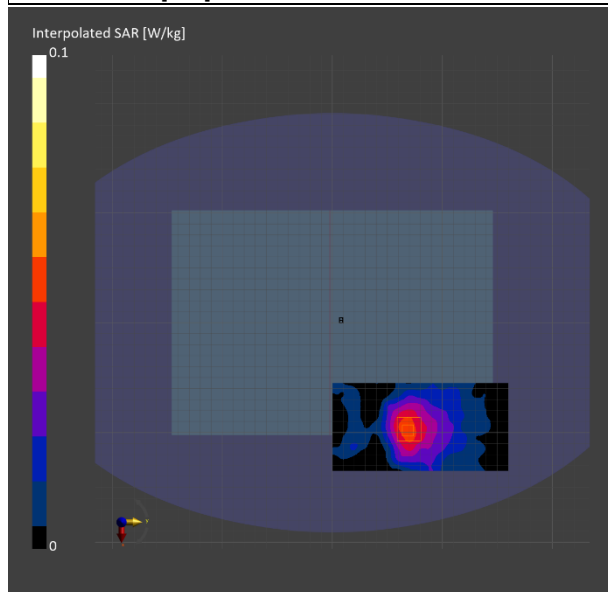
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.042	0.042
psSAR8g [W/kg]	0.021	0.019
psSAR10g [W/kg]	0.019	0.017
Power Drift [dB]	0.05	-0.11
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		14.1



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx2

Ambient temperature: 22.3°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	5690.0, 138	4.89	5.203	35.699

Hardware Setup

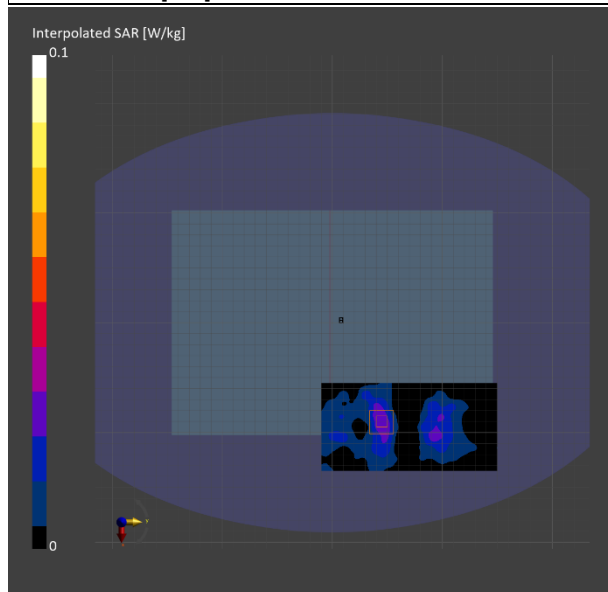
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.024	0.021
psSAR8g [W/kg]	0.011	0.007
psSAR10g [W/kg]	0.009	0.005
Power Drift [dB]	0.03	0.13
M2/M1 [%]		69.1
Dist 3dB Peak [mm]		9.2



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ID: 033

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx2

Ambient temperature: 22.3°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	5775.0, 155	4.89	5.289	35.618

Hardware Setup

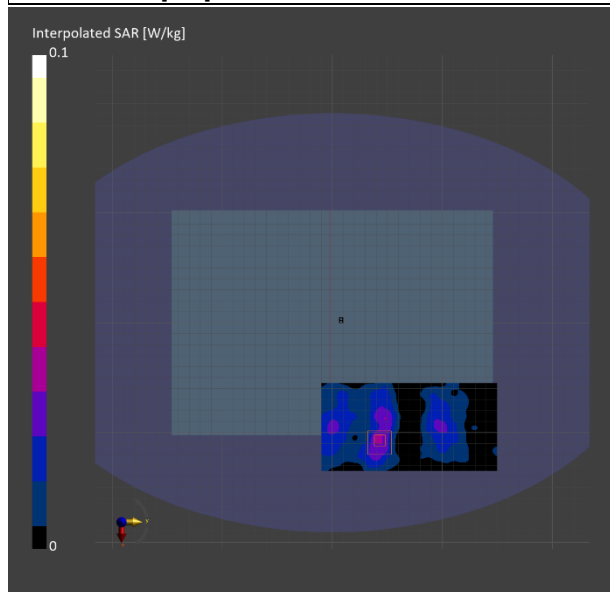
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.027	0.023
psSAR8g [W/kg]	0.012	0.006
psSAR10g [W/kg]	0.011	0.005
Power Drift [dB]	0.09	0.04
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		11.9



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	2462.0, 11	7.76	1.835	39.642

Hardware Setup

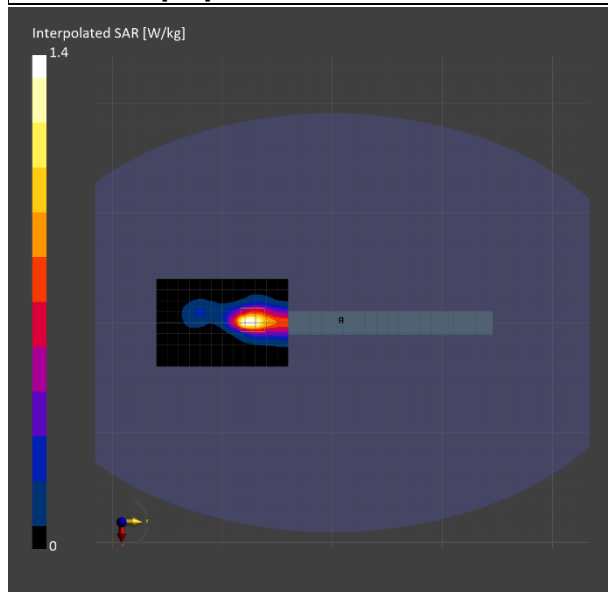
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	1.05	1.08
psSAR8g [W/kg]	0.524	0.532
psSAR10g [W/kg]	0.473	0.481
Power Drift [dB]	0.01	0.01
M2/M1 [%]		80.2
Dist 3dB Peak [mm]		6.4



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ID: 035

Report No. :TESA2409000542EN

Measurement Report _Bluetooth(GFSK)_Body_Top Edge_CH 78_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	2480.0, 78	7.76	1.854	39.624

Hardware Setup

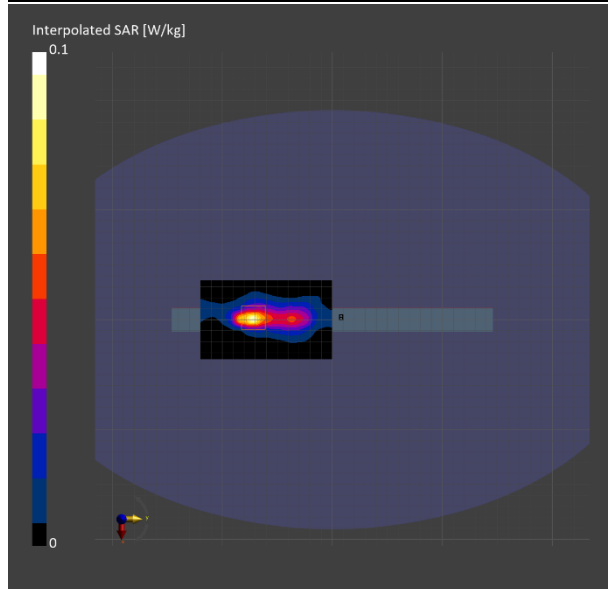
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.065	0.069
psSAR8g [W/kg]	0.031	0.033
psSAR10g [W/kg]	0.028	0.029
Power Drift [dB]	0.09	0.00
M2/M1 [%]		78.6
Dist 3dB Peak [mm]		7.0



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ID: 036

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Tx1

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5230.0, 46	5.49	4.591	35.216

Hardware Setup

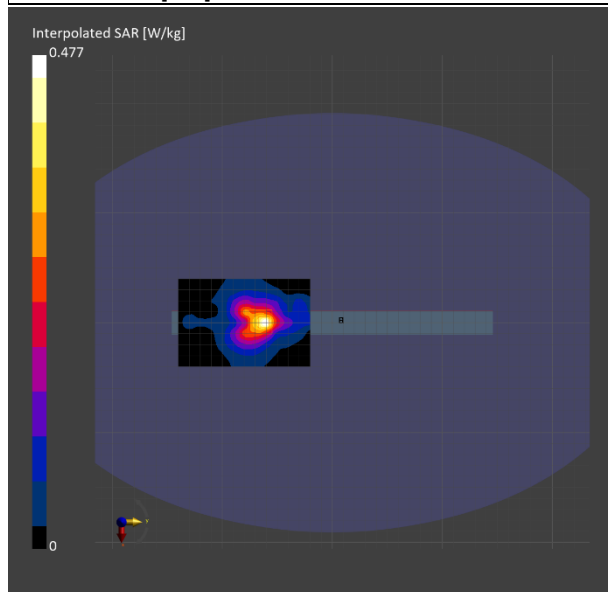
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.321	0.334
psSAR8g [W/kg]	0.135	0.136
psSAR10g [W/kg]	0.122	0.121
Power Drift [dB]	0.10	-0.03
M2/M1 [%]		66.1
Dist 3dB Peak [mm]		9.4



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ID: 037

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Tx1

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5270.0, 54	5.49	4.629	35.171

Hardware Setup

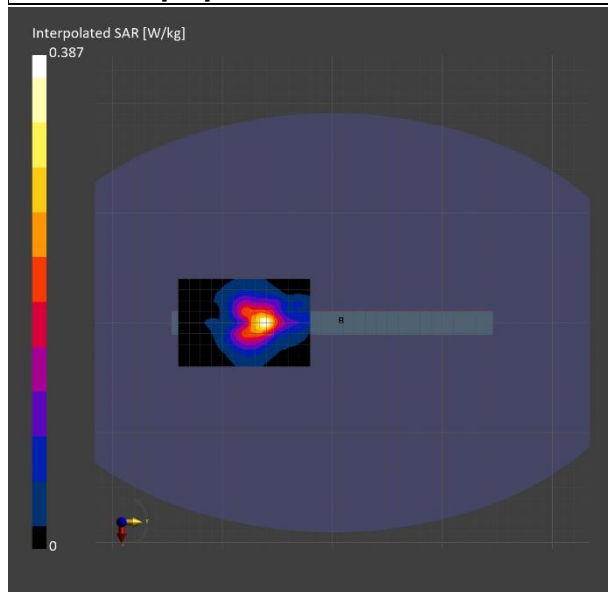
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.260	0.271
psSAR8g [W/kg]	0.109	0.111
psSAR10g [W/kg]	0.098	0.099
Power Drift [dB]	-0.06	0.10
M2/M1 [%]		66.2
Dist 3dB Peak [mm]		10.1



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ID: 038

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx1

Ambient temperature: 22.3°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	Top Edge, 0.00	5690.0, 138	4.89	5.203	35.699

Hardware Setup

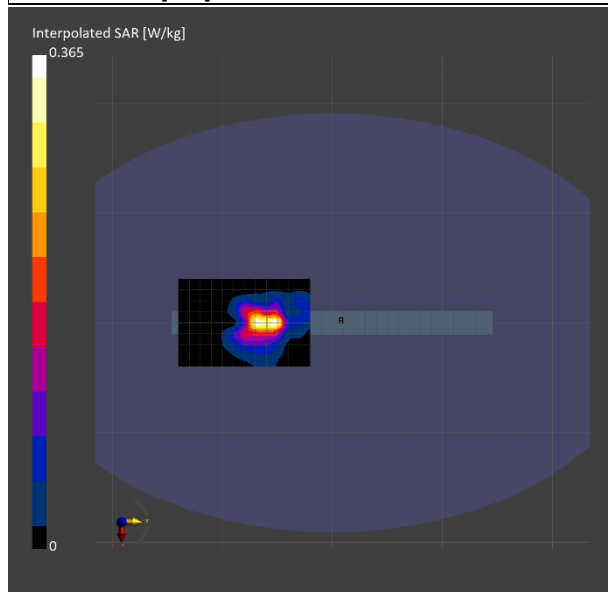
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.248	0.264
psSAR8g [W/kg]	0.105	0.104
psSAR10g [W/kg]	0.095	0.093
Power Drift [dB]	0.13	0.02
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		7.9



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ID: 039

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx1

Ambient temperature: 22.3°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	Top Edge, 0.00	5775.0, 155	4.89	5.289	35.618

Hardware Setup

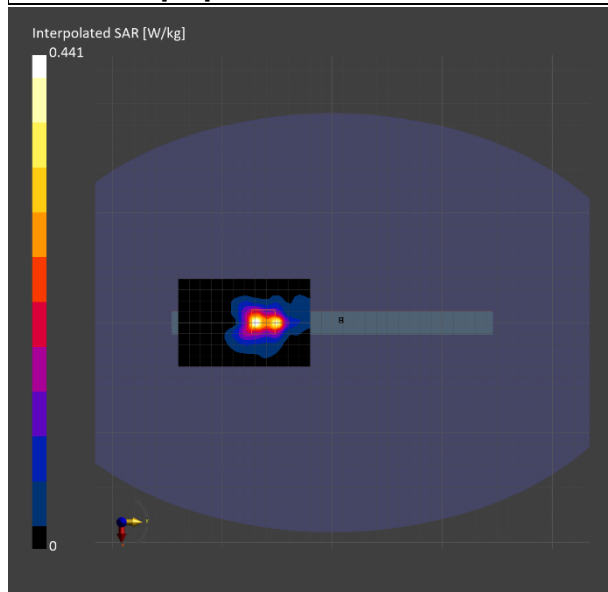
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.283	0.294
psSAR8g [W/kg]	0.108	0.109
psSAR10g [W/kg]	0.098	0.098
Power Drift [dB]	0.04	0.16
M2/M1 [%]		60.2
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	2462.0, 11	7.76	1.835	39.642

Hardware Setup

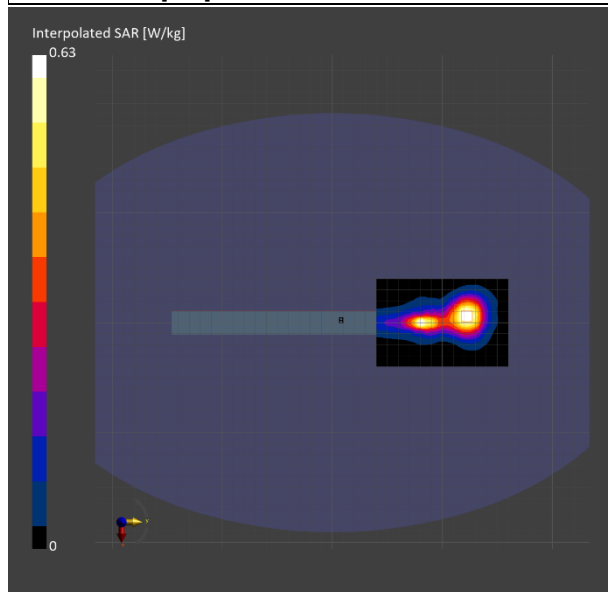
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	4.9 x 4.9 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.504	0.525
psSAR8g [W/kg]	0.280	0.308
psSAR10g [W/kg]	0.256	0.283
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		75.2
Dist 3dB Peak [mm]		5.8



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ID: 041

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Tx2

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5230.0, 46	5.49	4.591	35.216

Hardware Setup

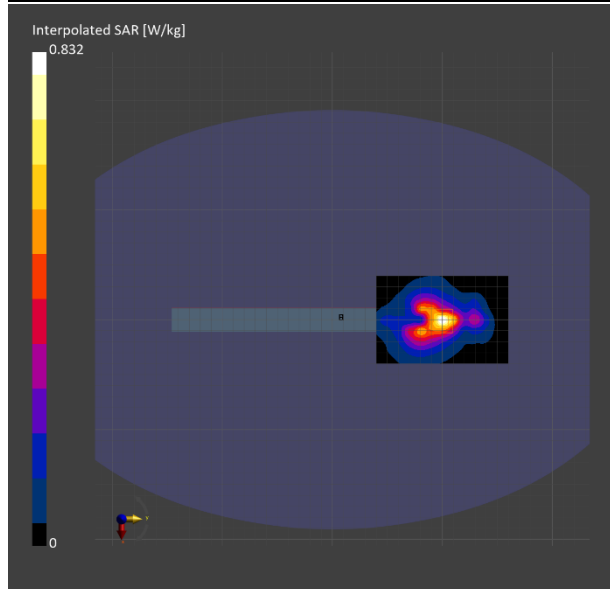
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.567	0.596
psSAR8g [W/kg]	0.238	0.247
psSAR10g [W/kg]	0.214	0.222
Power Drift [dB]	0.04	-0.12
M2/M1 [%]		68.3
Dist 3dB Peak [mm]		7.9



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ID: 042

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Tx2

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5270.0, 54	5.49	4.629	35.171

Hardware Setup

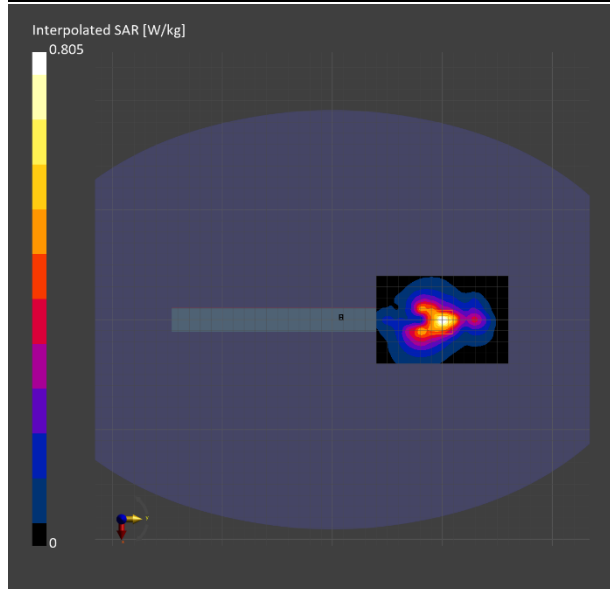
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.548	0.583
psSAR8g [W/kg]	0.229	0.240
psSAR10g [W/kg]	0.206	0.215
Power Drift [dB]	-0.02	-0.02
M2/M1 [%]		68.0
Dist 3dB Peak [mm]		8.4



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ID: 043

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx2

Ambient temperature: 22.3°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	Top Edge, 0.00	5690.0, 138	4.89	5.203	35.699

Hardware Setup

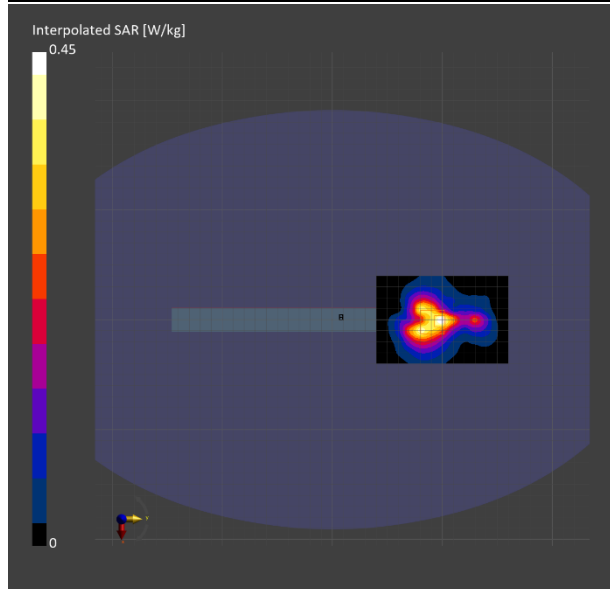
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.311	0.312
psSAR8g [W/kg]	0.139	0.138
psSAR10g [W/kg]	0.127	0.126
Power Drift [dB]	-0.01	-0.00
M2/M1 [%]		64.1
Dist 3dB Peak [mm]		7.4



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Member of SGS Group

ID: 044

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx2

Ambient temperature: 22.3°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	Top Edge, 0.00	5775.0, 155	4.89	5.289	35.618

Hardware Setup

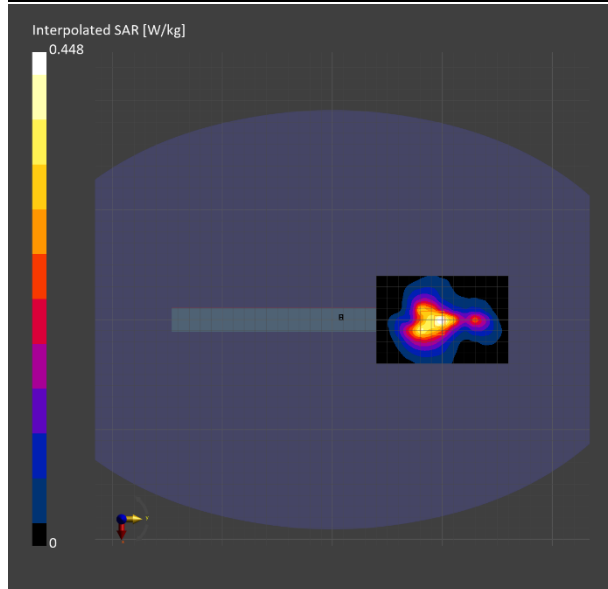
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.313	0.319
psSAR8g [W/kg]	0.139	0.136
psSAR10g [W/kg]	0.127	0.124
Power Drift [dB]	-0.00	-0.05
M2/M1 [%]		64.9
Dist 3dB Peak [mm]		8.0



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ID: 045

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx1

Ambient temperature: 22.1°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	Bottom Surface, 0.00	2462.0, 11	7.76	1.796	38.801

Hardware Setup

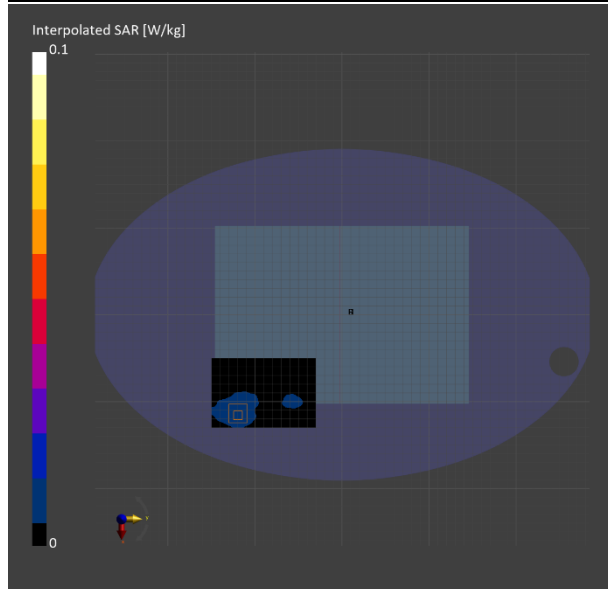
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2213	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-12	2024-09-12
psSAR1g [W/kg]	0.011	0.01
psSAR8g [W/kg]	0.007	0.005
psSAR10g [W/kg]	0.006	0.004
Power Drift [dB]	0.10	-0.04
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		15.0



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ID: 046

Report No. :TESA2409000542EN

Measurement Report _Bluetooth(GFSK)_Body_Bottom Surface_CH 78_0mm_Tx1

Ambient temperature: 22.1°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	Bottom Surface, 0.00	2480.0, 78	7.76	1.815	38.777

Hardware Setup

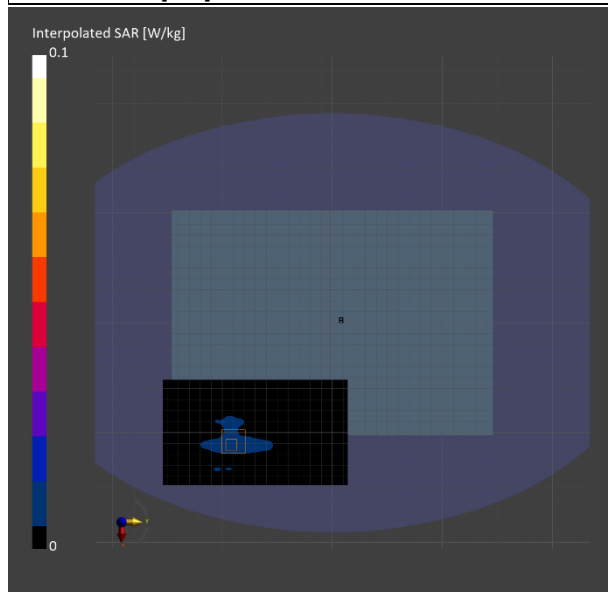
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-12	2024-09-12
psSAR1g [W/kg]	0.011	0.009
psSAR8g [W/kg]	0.006	0.005
psSAR10g [W/kg]	0.006	0.005
Power Drift [dB]	-0.05	0.16
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		15.0



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx1

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	5230.0, 46	5.49	4.763	36.519

Hardware Setup

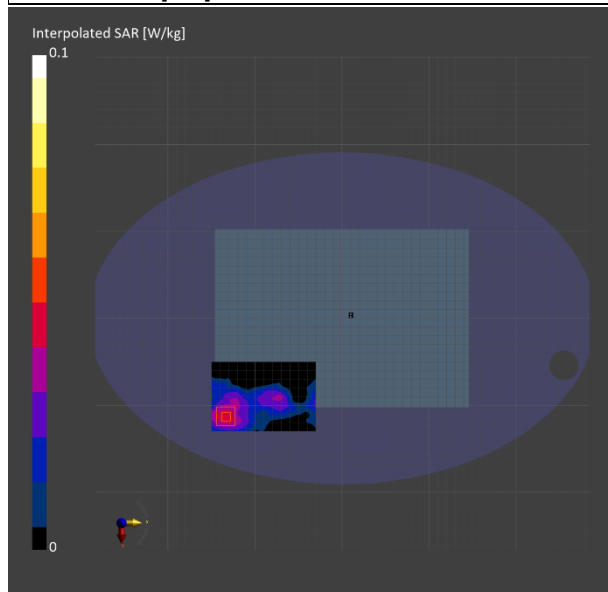
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.036	0.030
psSAR8g [W/kg]	0.017	0.014
psSAR10g [W/kg]	0.016	0.013
Power Drift [dB]	0.15	-0.15
M2/M1 [%]		68.7
Dist 3dB Peak [mm]		16.4



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ID: 048

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx1

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	5270.0, 54	5.49	4.804	36.483

Hardware Setup

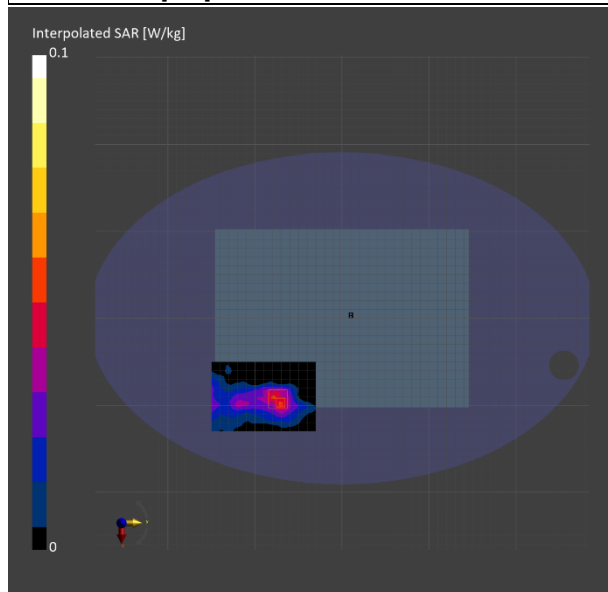
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.037	0.032
psSAR8g [W/kg]	0.018	0.010
psSAR10g [W/kg]	0.016	0.009
Power Drift [dB]	0.15	0.11
M2/M1 [%]		64.7
Dist 3dB Peak [mm]		12.7



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx1

Ambient temperature: 22.5°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	5690.0, 138	4.89	5.296	36.333

Hardware Setup

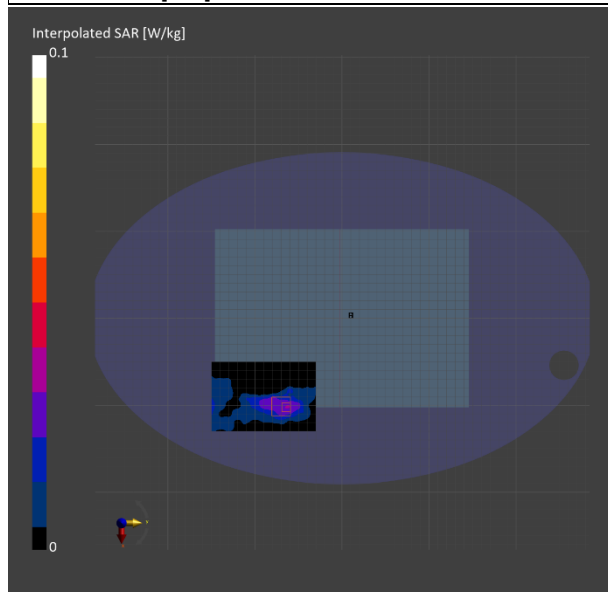
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.026	0.020
psSAR8g [W/kg]	0.012	0.005
psSAR10g [W/kg]	0.011	0.004
Power Drift [dB]	-0.07	-0.12
M2/M1 [%]		61.6
Dist 3dB Peak [mm]		12.0



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx1

Ambient temperature: 22.5°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	5775.0, 155	4.89	5.386	36.251

Hardware Setup

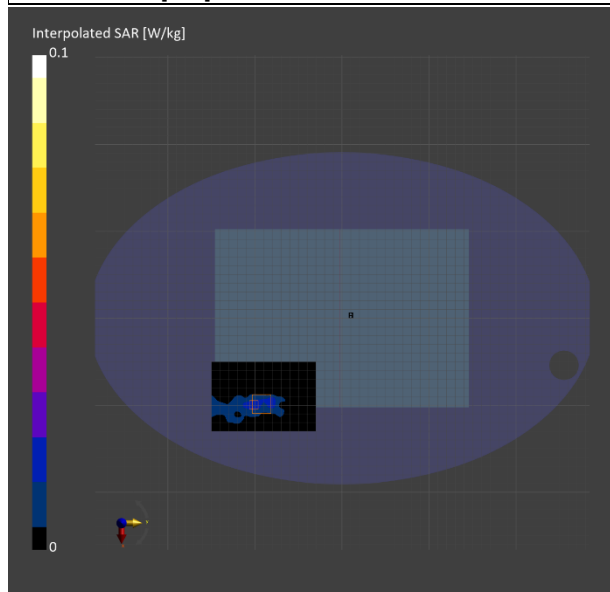
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.016	0.011
psSAR8g [W/kg]	0.007	0.002
psSAR10g [W/kg]	0.006	0.002
Power Drift [dB]	0.12	-0.18
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		5.9



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ID: 051

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx2

Ambient temperature: 22.1°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	Bottom Surface, 0.00	2462.0, 11	7.76	1.796	38.801

Hardware Setup

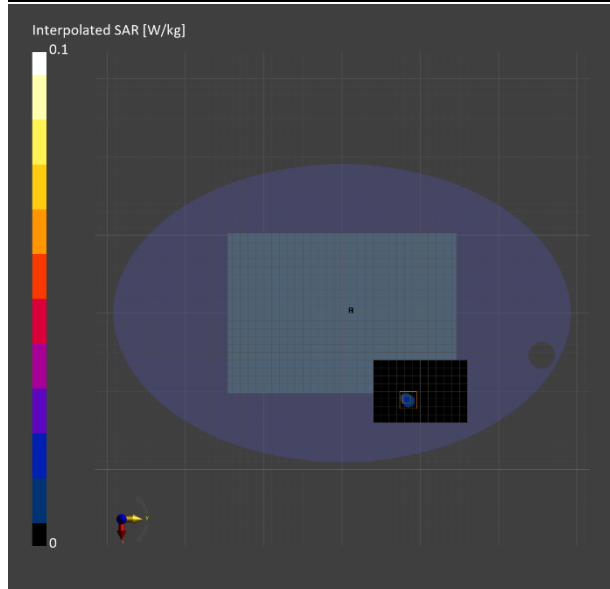
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	4.8 x 4.8 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-12	2024-09-12
psSAR1g [W/kg]	0.013	0.011
psSAR8g [W/kg]	0.006	0.004
psSAR10g [W/kg]	0.005	0.003
Power Drift [dB]	0.02	-0.15
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		6.2



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ID: 052

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx2

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	5230.0, 46	5.49	4.763	36.519

Hardware Setup

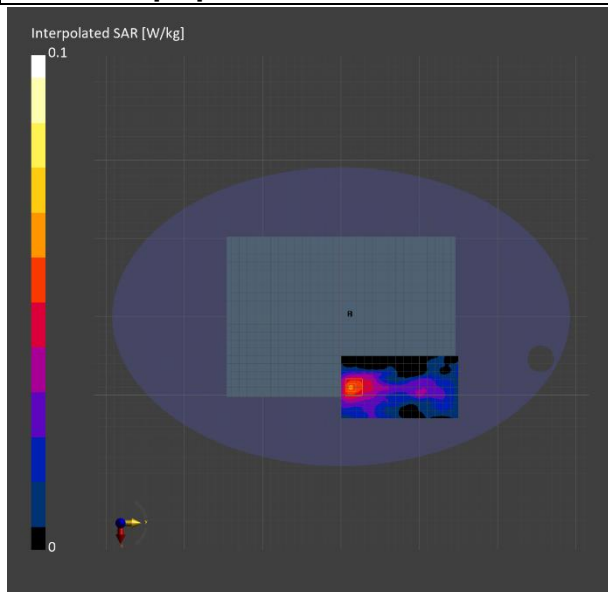
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.045	0.043
psSAR8g [W/kg]	0.022	0.019
psSAR10g [W/kg]	0.020	0.017
Power Drift [dB]	-0.10	0.14
M2/M1 [%]		62.5
Dist 3dB Peak [mm]		16.5



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ID: 053

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx2

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	5270.0, 54	5.49	4.804	36.483

Hardware Setup

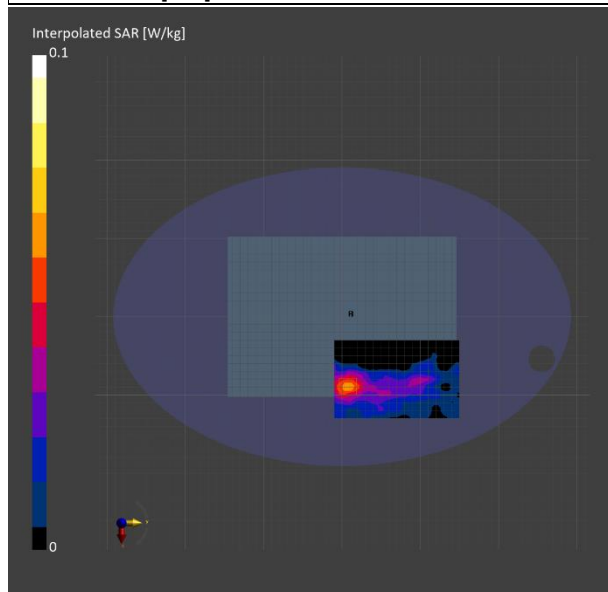
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.048	0.040
psSAR8g [W/kg]	0.023	0.017
psSAR10g [W/kg]	0.021	0.015
Power Drift [dB]	0.10	-0.11
M2/M1 [%]		64.2
Dist 3dB Peak [mm]		11.0



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ID: 054

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx2

Ambient temperature: 22.5°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	5690.0, 138	4.82	5.296	36.333

Hardware Setup

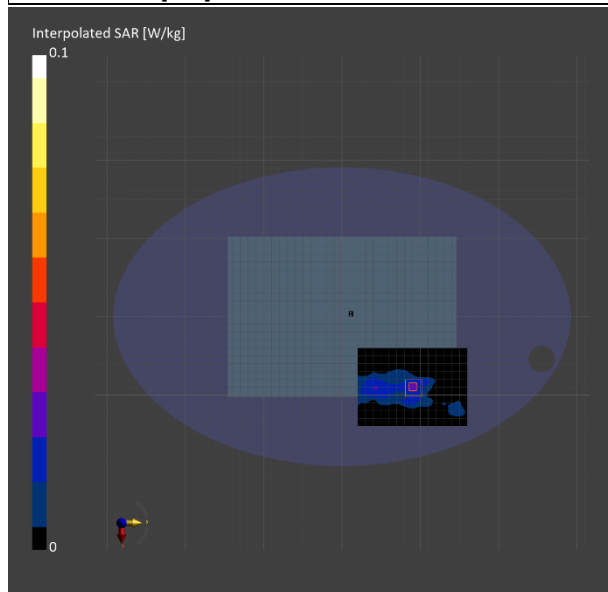
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.023	0.019
psSAR8g [W/kg]	0.01	0.007
psSAR10g [W/kg]	0.009	0.006
Power Drift [dB]	0.16	-0.18
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		15.6



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ID: 055

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx2

Ambient temperature: 22.5°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	5775.0, 155	4.89	5.386	36.251

Hardware Setup

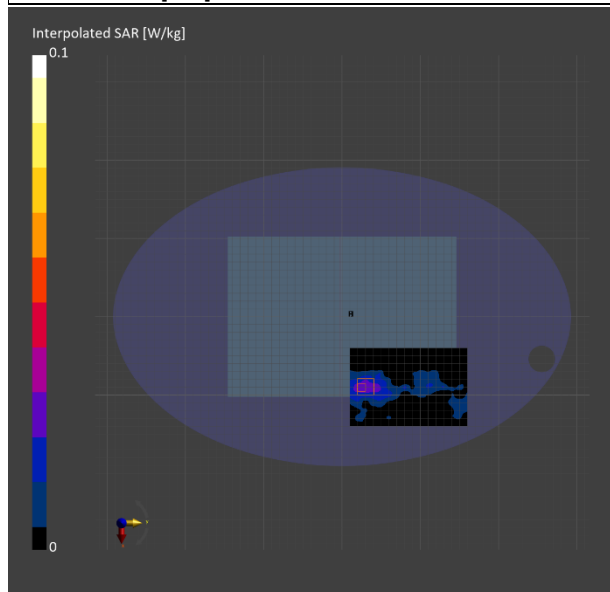
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.023	0.014
psSAR8g [W/kg]	0.011	0.003
psSAR10g [W/kg]	0.01	0.003
Power Drift [dB]	-0.13	-0.12
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		11.5



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ID: 056

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx1

Ambient temperature: 22.1°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	Top Edge, 0.00	2462.0, 11	7.76	1.796	38.801

Hardware Setup

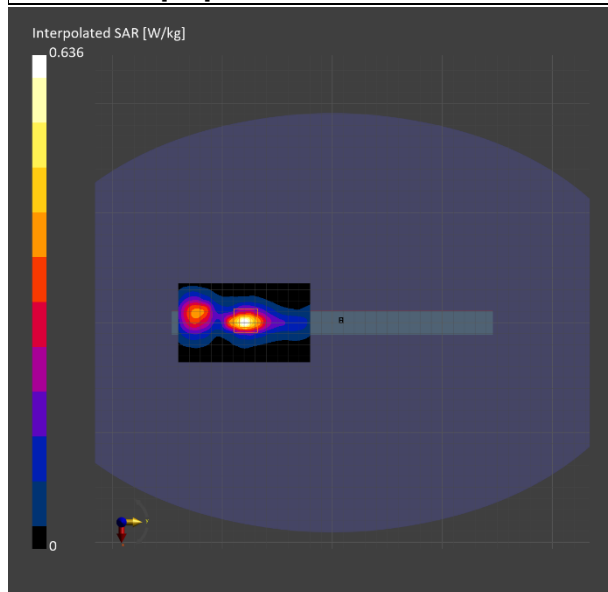
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	3.9 x 3.9 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-12	2024-09-12
psSAR1g [W/kg]	0.463	0.494
psSAR8g [W/kg]	0.224	0.231
psSAR10g [W/kg]	0.201	0.208
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		69.0
Dist 3dB Peak [mm]		6.3



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ID: 057

Report No. :TESA2409000542EN

Measurement Report_Bluetooth(GFSK)_Body_Top Edge_CH 78_0mm_Tx1

Ambient temperature: 22.1°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	Top Edge, 0.00	2480.0, 78	7.76	1.815	38.777

Hardware Setup

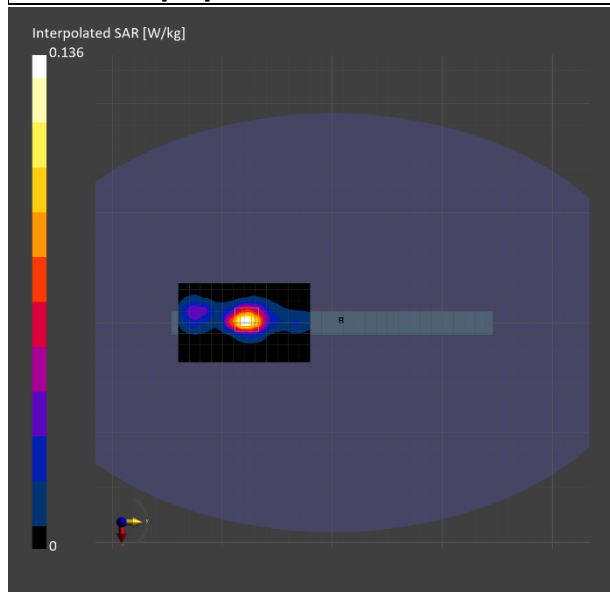
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-12	2024-09-12
psSAR1g [W/kg]	0.101	0.109
psSAR8g [W/kg]	0.050	0.052
psSAR10g [W/kg]	0.045	0.047
Power Drift [dB]	-0.09	0.03
M2/M1 [%]		77.3
Dist 3dB Peak [mm]		7.3



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ID: 058

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Tx1

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5230.0, 46	5.49	4.763	36.519

Hardware Setup

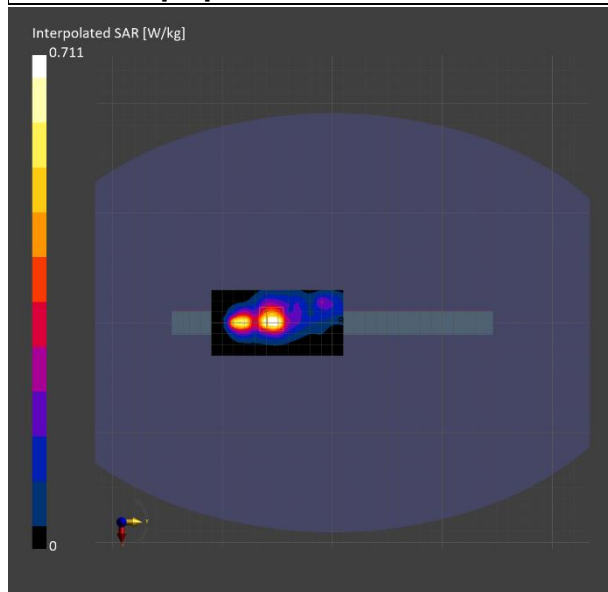
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.511	0.556
psSAR8g [W/kg]	0.206	0.219
psSAR10g [W/kg]	0.182	0.193
Power Drift [dB]	0.05	-0.02
M2/M1 [%]		64.9
Dist 3dB Peak [mm]		6.9



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ID: 059

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Tx1

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5270.0, 54	5.49	4.804	36.483

Hardware Setup

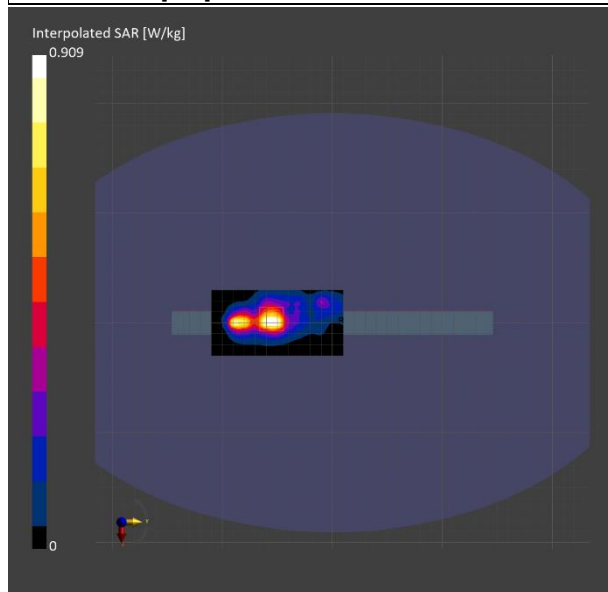
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.665	0.729
psSAR8g [W/kg]	0.268	0.285
psSAR10g [W/kg]	0.237	0.252
Power Drift [dB]	-0.03	0.05
M2/M1 [%]		64.0
Dist 3dB Peak [mm]		6.9



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ID: 060

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx1

Ambient temperature: 22.5°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	Top Edge, 0.00	5690.0, 138	4.89	5.296	36.333

Hardware Setup

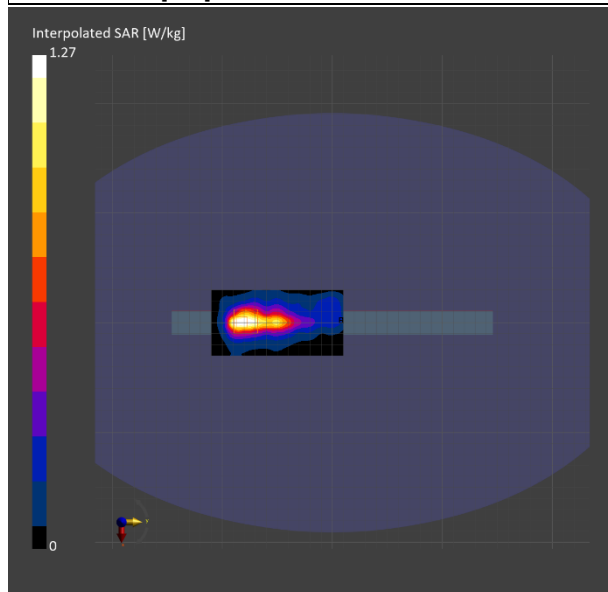
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.944	1.06
psSAR8g [W/kg]	0.395	0.401
psSAR10g [W/kg]	0.354	0.358
Power Drift [dB]	-0.03	-0.03
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		7.2



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ID: 061

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx1

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5775.0, 155	4.89	5.386	36.251

Hardware Setup

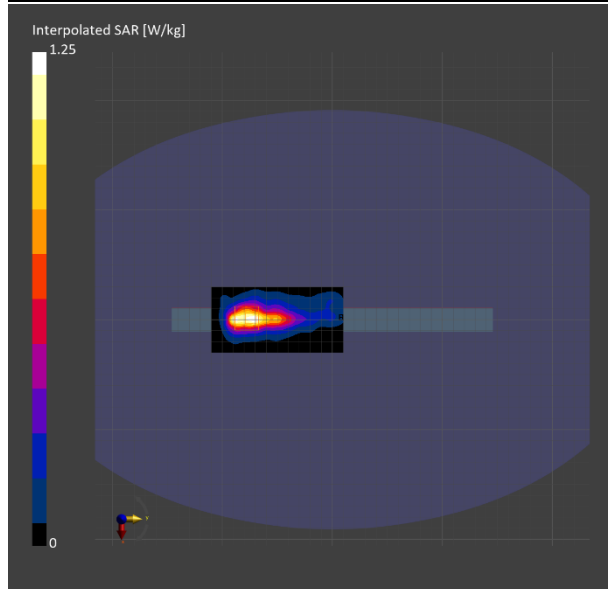
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.887	1.01
psSAR8g [W/kg]	0.371	0.392
psSAR10g [W/kg]	0.332	0.352
Power Drift [dB]	0.11	0.04
M2/M1 [%]		60.8
Dist 3dB Peak [mm]		7.2



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ID: 062

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx2

Ambient temperature: 22.1°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	Top Edge, 0.00	2462.0, 11	7.76	1.796	38.801

Hardware Setup

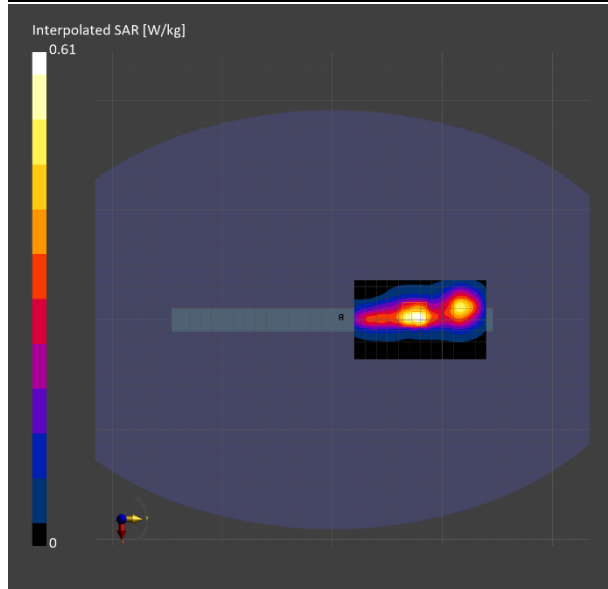
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 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 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-12	2024-09-12
psSAR1g [W/kg]	0.472	0.579
psSAR8g [W/kg]	0.248	0.273
psSAR10g [W/kg]	0.225	0.245
Power Drift [dB]	0.04	-0.02
M2/M1 [%]		85.3
Dist 3dB Peak [mm]		13.0



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ID: 063

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Tx2

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5230.0, 46	5.49	4.763	36.519

Hardware Setup

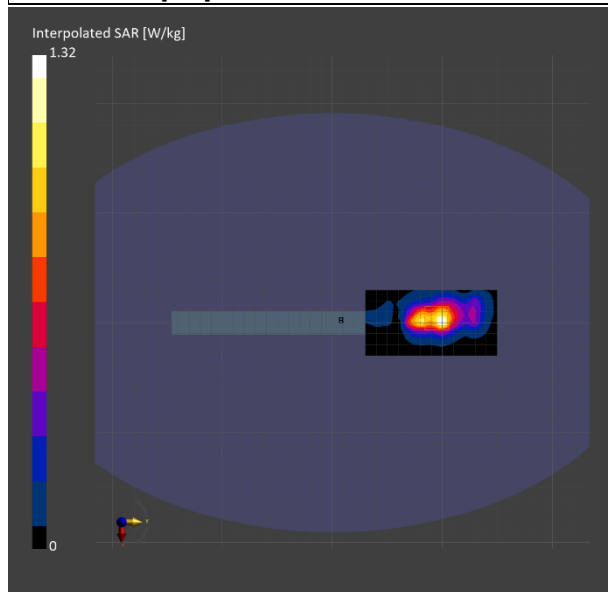
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.893	1.04
psSAR8g [W/kg]	0.373	0.407
psSAR10g [W/kg]	0.336	0.361
Power Drift [dB]	0.07	-0.06
M2/M1 [%]		66.4
Dist 3dB Peak [mm]		7.9



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Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Tx2

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5270.0, 54	5.49	4.804	36.483

Hardware Setup

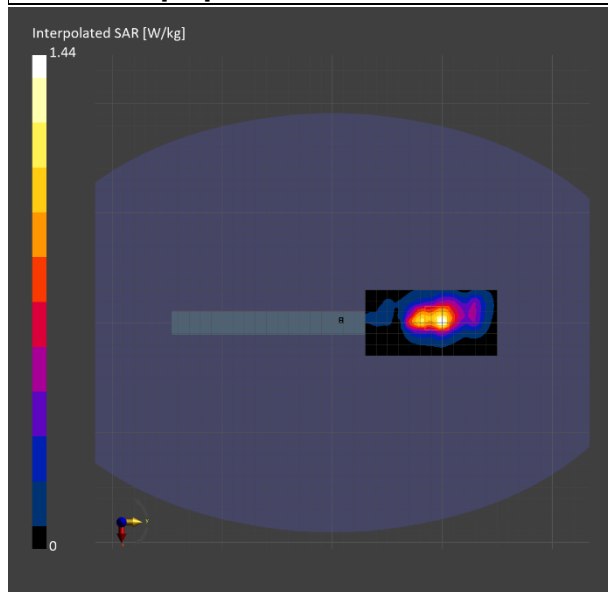
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.969	1.14
psSAR8g [W/kg]	0.404	0.446
psSAR10g [W/kg]	0.364	0.396
Power Drift [dB]	0.04	-0.03
M2/M1 [%]		66.9
Dist 3dB Peak [mm]		8.0



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ID: 065

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx2

Ambient temperature: 22.5°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	Top Edge, 0.00	5690.0, 138	4.89	5.296	36.333

Hardware Setup

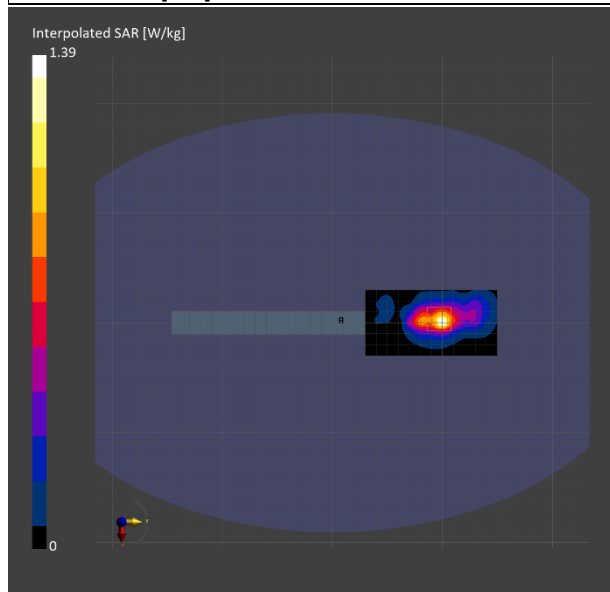
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.923	1.08
psSAR8g [W/kg]	0.362	0.400
psSAR10g [W/kg]	0.323	0.352
Power Drift [dB]	0.02	0.03
M2/M1 [%]		64.7
Dist 3dB Peak [mm]		7.2



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ID: 066

Report No. :TESA2409000542EN

Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx2

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5775.0, 155	4.89	5.386	36.251

Hardware Setup

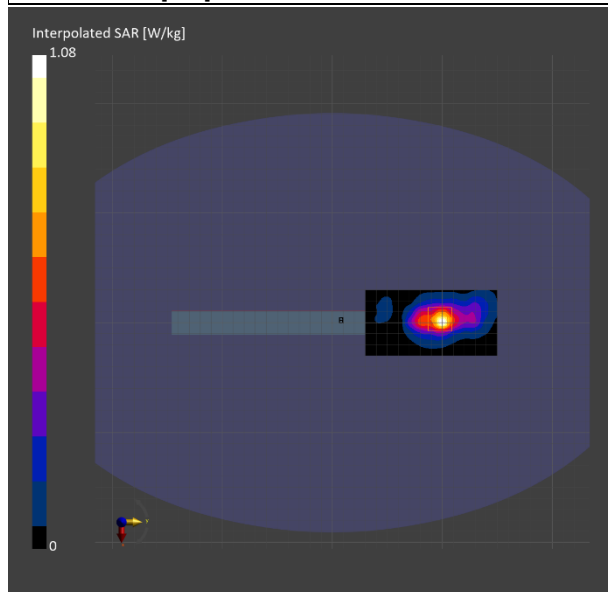
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.718	0.841
psSAR8g [W/kg]	0.277	0.304
psSAR10g [W/kg]	0.246	0.266
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		64.0
Dist 3dB Peak [mm]		7.2



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12 SAR SYSTEM CHECK RESULTS

Report No. :TESA2409000542EN

Dipole_D2450-SN:727

Ambient temperature: 22.4°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	FRONT, 10.00	2450.0, 50	7.76	1.785	38.784

Hardware Setup

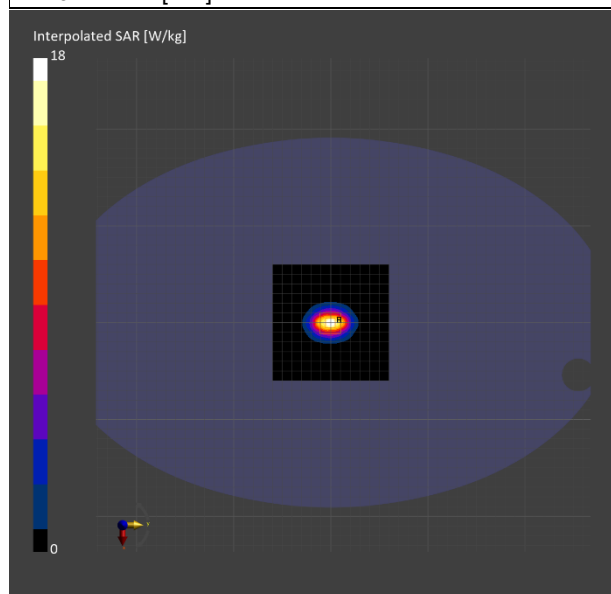
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

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	2024-09-20	2024-09-20
psSAR1g [W/kg]	13.6	13.6
psSAR8g [W/kg]	6.96	7.02
psSAR10g [W/kg]	6.29	6.37
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		9.0



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Report No. :TESA2409000542EN

Dipole_D5250-SN:1023

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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, 10.00	5250.0, 25	5.49	4.81	36.594

Hardware Setup

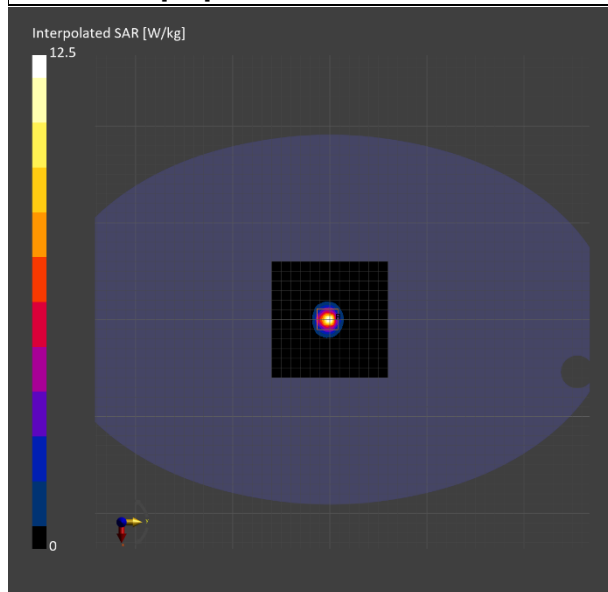
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-21	2024-09-21
psSAR1g [W/kg]	7.75	8.00
psSAR8g [W/kg]	2.63	2.70
psSAR10g [W/kg]	2.27	2.32
Power Drift [dB]	0.05	0.01
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2409000542EN

Dipole_D5250-SN:1023

Ambient temperature: 21.6°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, 10.00	5250.0, 25	5.49	4.755	36.611

Hardware Setup

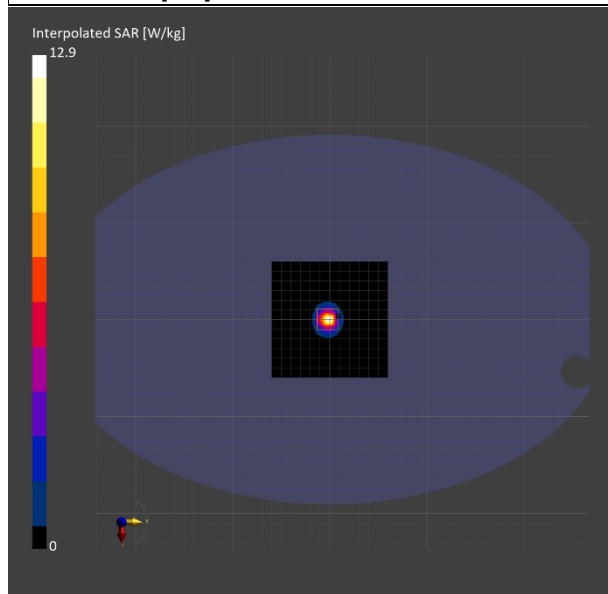
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-22	2024-09-22
psSAR1g [W/kg]	8.03	8.30
psSAR8g [W/kg]	2.72	2.80
psSAR10g [W/kg]	2.35	2.41
Power Drift [dB]	-0.02	0.02
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2409000542EN

Dipole_D5600-SN:1023

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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, 10.00	5600.0, 60	4.89	5.184	36.315

Hardware Setup

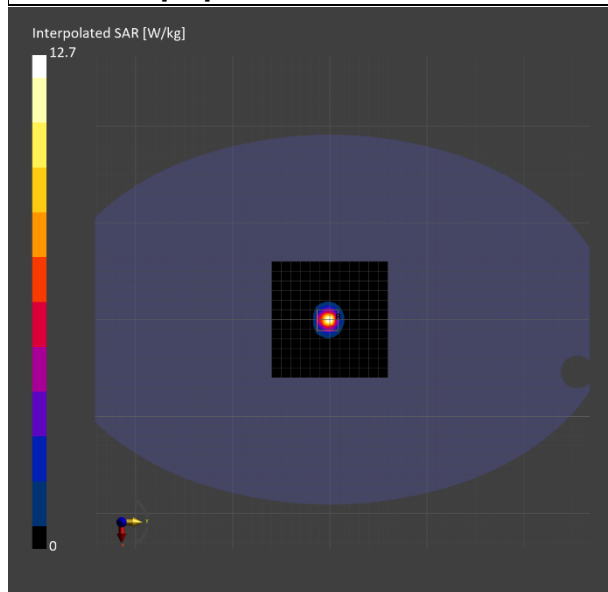
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-23	2024-09-23
psSAR1g [W/kg]	8.00	8.46
psSAR8g [W/kg]	2.67	2.84
psSAR10g [W/kg]	2.31	2.44
Power Drift [dB]	0.03	0.01
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2409000542EN

Dipole_D5750-SN:1023

Ambient temperature: 22.2°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, 10.00	5750.0, 75	4.89	5.349	36.11

Hardware Setup

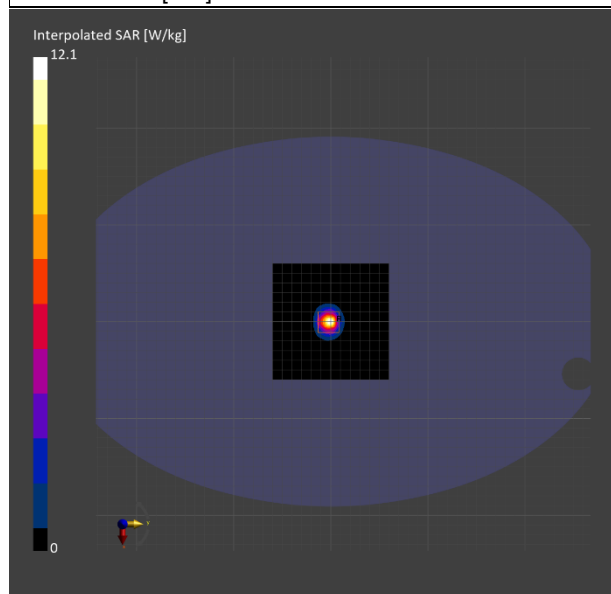
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	7.70	8.03
psSAR8g [W/kg]	2.58	2.68
psSAR10g [W/kg]	2.23	2.30
Power Drift [dB]	0.04	0.01
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2409000542EN

Dipole_D2450-SN:727

Ambient temperature: 22.1°C; Liquid temperature: 21.8°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, 10.00	2450.0, 50	7.76	1.821	39.659

Hardware Setup

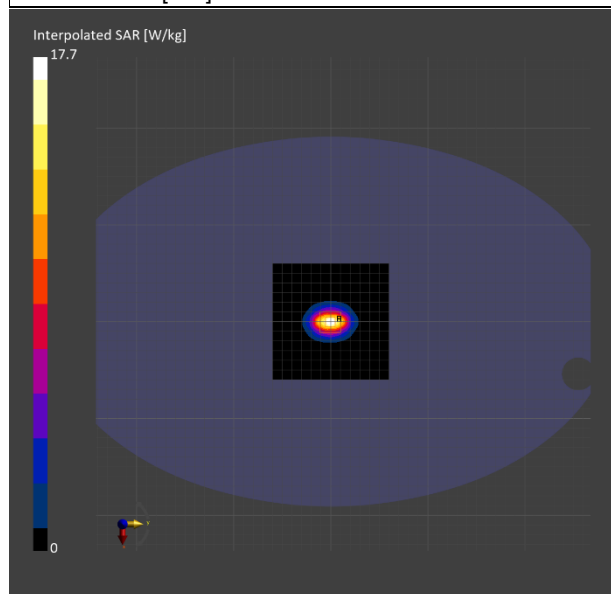
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

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	2024-09-16	2024-09-16
psSAR1g [W/kg]	13.4	13.3
psSAR8g [W/kg]	6.84	6.91
psSAR10g [W/kg]	6.18	6.27
Power Drift [dB]	0.01	0.02
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		9.0



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Report No. :TESA2409000542EN

Dipole_D5250-SN:1023

Ambient temperature: 22.2°C; Liquid temperature: 22.0°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, 10.00	5250.0, 25	5.49	4.61	35.194

Hardware Setup

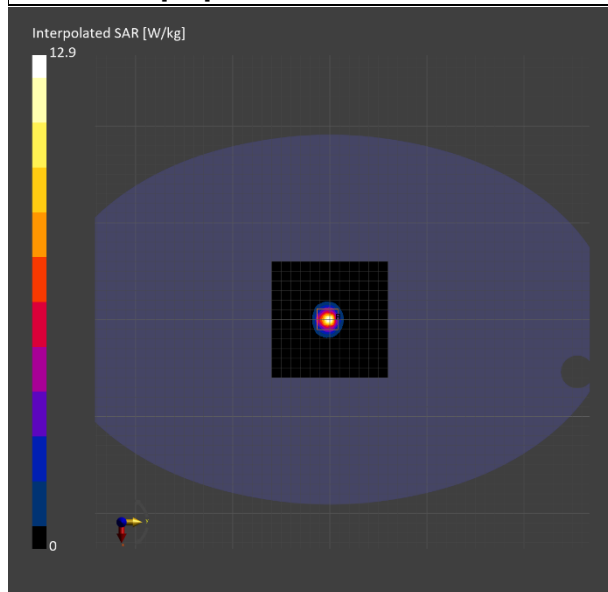
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-17	2024-09-17
psSAR1g [W/kg]	8.01	8.31
psSAR8g [W/kg]	2.71	2.81
psSAR10g [W/kg]	2.34	2.41
Power Drift [dB]	0.02	0.02
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2409000542EN

Dipole_D5250-SN:1023

Ambient temperature: 22.4°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	FRONT, 10.00	5250.0, 25	5.49	4.856	37.06

Hardware Setup

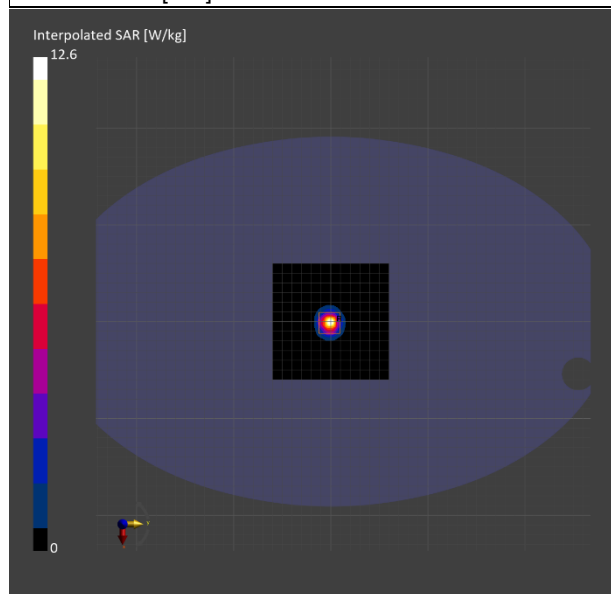
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-18	2024-09-18
psSAR1g [W/kg]	7.77	8.30
psSAR8g [W/kg]	2.60	2.81
psSAR10g [W/kg]	2.24	2.41
Power Drift [dB]	-0.04	-0.07
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2409000542EN

Dipole_D5600-SN:1023

Ambient temperature: 22.3°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	FRONT, 10.00	5600.0, 60	4.82	5.111	35.785

Hardware Setup

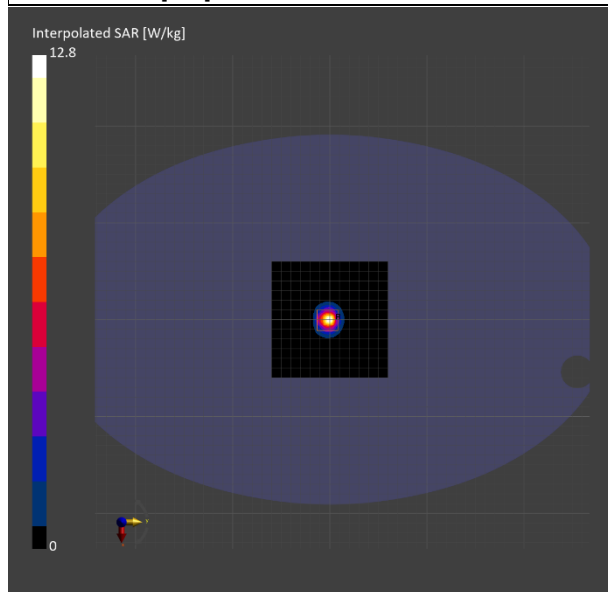
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-19	2024-09-19
psSAR1g [W/kg]	8.05	8.55
psSAR8g [W/kg]	2.69	2.87
psSAR10g [W/kg]	2.32	2.47
Power Drift [dB]	0.00	0.02
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2409000542EN

Dipole_D5750-SN:1023

Ambient temperature: 22.2°C; Liquid temperature: 22.0°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, 10.00	5750.0, 75	4.89	5.264	35.641

Hardware Setup

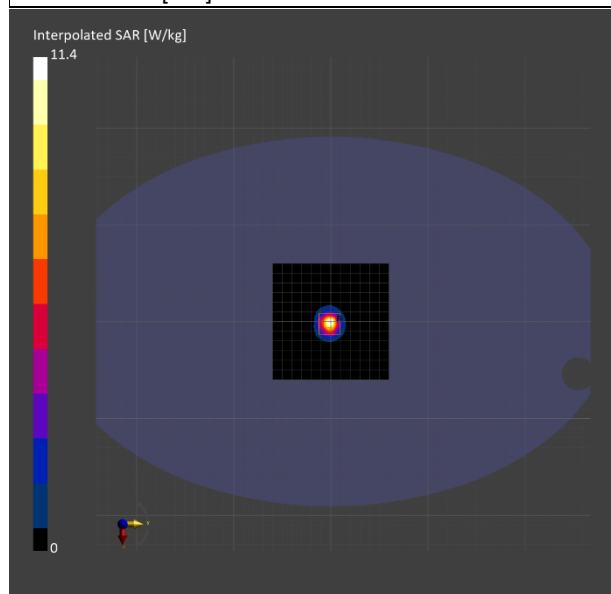
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	7.48	8.22
psSAR8g [W/kg]	2.57	2.80
psSAR10g [W/kg]	2.22	2.42
Power Drift [dB]	-0.05	0.04
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2409000542EN

Dipole_D2450-SN:727

Ambient temperature: 22.1°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, 10.00	2450.0, 50	7.76	1.783	38.822

Hardware Setup

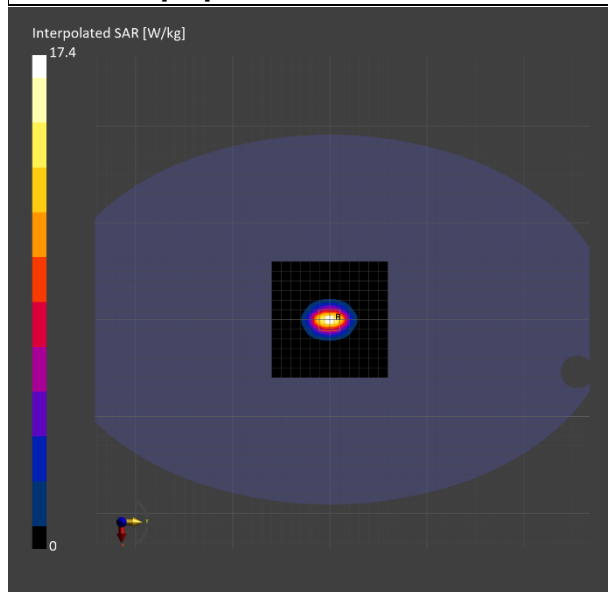
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

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	2024-09-12	2024-09-12
psSAR1g [W/kg]	13.2	13.1
psSAR8g [W/kg]	6.73	6.80
psSAR10g [W/kg]	6.08	6.16
Power Drift [dB]	0.01	0.02
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		9.0



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Report No. :TESA2409000542EN

Dipole_D5250-SN:1023

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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, 10.00	5250.0, 25	5.49	4.783	36.501

Hardware Setup

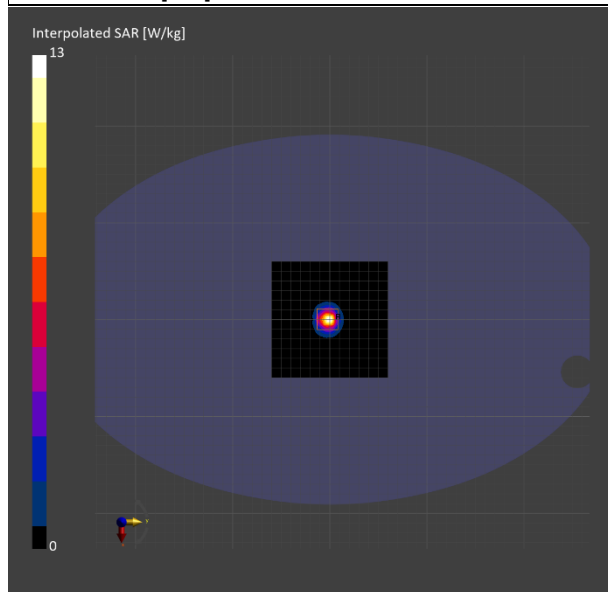
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-13	2024-09-13
psSAR1g [W/kg]	8.07	8.36
psSAR8g [W/kg]	2.73	2.82
psSAR10g [W/kg]	2.36	2.43
Power Drift [dB]	-0.03	0.01
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		7.4



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Dipole_D5250-SN:1023

Ambient temperature: 22.4°C; Liquid temperature: 22.2°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, 10.00	5250.0, 25	5.49	4.684	35.738

Hardware Setup

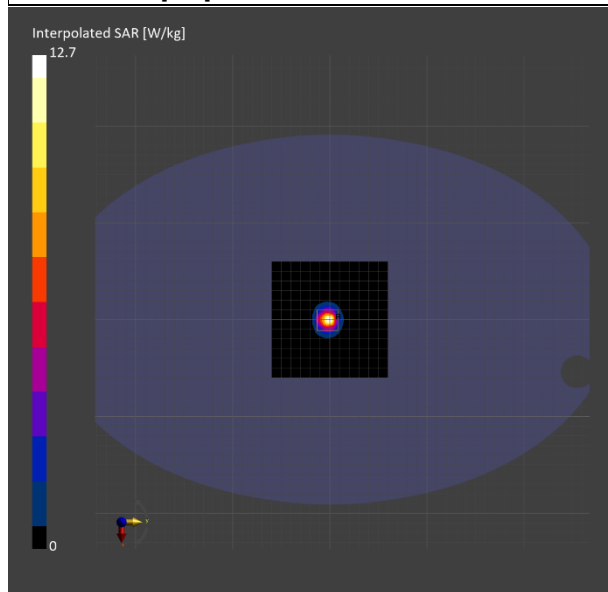
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-14	2024-09-14
psSAR1g [W/kg]	7.90	8.17
psSAR8g [W/kg]	2.68	2.75
psSAR10g [W/kg]	2.32	2.36
Power Drift [dB]	-0.02	0.02
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2409000542EN

Dipole_D5600-SN:1023

Ambient temperature: 22.5°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	FRONT, 10.00	5600.0, 60	4.82	5.203	36.425

Hardware Setup

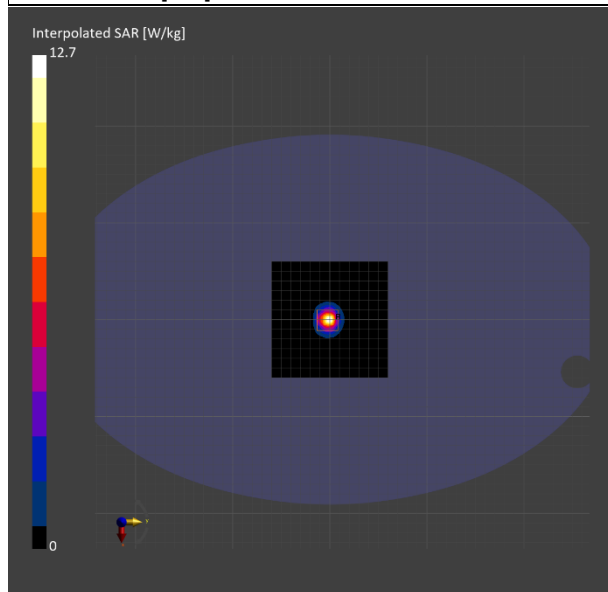
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	2024-09-15	2024-09-15
psSAR1g [W/kg]	7.97	8.46
psSAR8g [W/kg]	2.66	2.84
psSAR10g [W/kg]	2.30	2.44
Power Drift [dB]	0.03	0.02
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2409000542EN

Dipole_D5750-SN:1023

Ambient temperature: 22.4°C; Liquid temperature: 22.0°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, 10.00	5750.0, 75	4.89	5.358	36.272

Hardware Setup

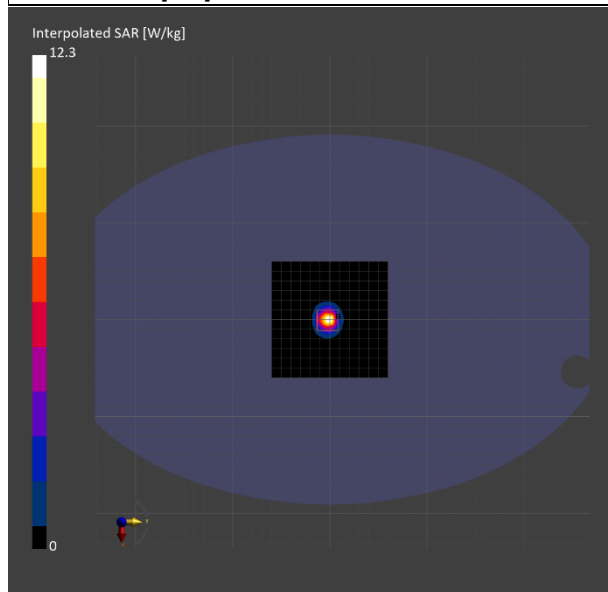
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn1824, 2024-07-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	7.83	8.14
psSAR8g [W/kg]	2.63	2.71
psSAR10g [W/kg]	2.27	2.33
Power Drift [dB]	0.05	0.01
M2/M1 [%]		62.1
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

- End of report -

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