

RF Exposure report



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

EUT Description	Wireless module installed in Notebook
Brand Name	REALTEK
Model No.	RTL8852CE
Host Model Number:	GA83H
Family Model No.	GA83x ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank for marketing use only)
Model Difference	For marketing purposes only
Applicant	Realtek Semiconductor Corp. No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu, 300, Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	TX2-RTL8852CE
Date of EUT Receipt	Jul. 25, 2025
Date of Test(s)	Aug. 04, 2025 ~ Aug. 12, 2025
Date of Issue	Aug. 29, 2025

Approved By /

John Teh

John Yeh

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

Remarks:

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2507000573EN	00	Initial creation of document	Aug. 22, 2025	Cindy Chou	
TESA2507000573EN	01	Modify comment	Aug. 29, 2025	Cindy Chou	*

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r02

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

IEC TR 63170:2018

IEC 62479:2010

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1.2 Description of EUT

EUT Description	Wireless module installed in Notebook	
Brand Name	REALTEK	
Model No.	RTL8852CE	
Host Brand Name	GIGABYTE	
Host Model Number:	GA83H	
Family Model No.	GA83x ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank for marketing use only)	
Model Difference	For marketing purposes only	
Duty Cycle	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
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 – 5250.0 MHz) 5.3GHz (5250.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11ax	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g (W/kg)	Highest APD (W/m ²)	Highest PD (W/m ²)
Bluetooth(GFSK)	0.34	N/A	N/A
2.4G WLAN	0.75	N/A	N/A
5G WLAN	1.18	N/A	N/A
6G WLAN	0.72	4.5	8.05

1.4 Antenna Information

Vendor	High-tek									
Antenna	Main									
Part Number	0ACCNO25006N(DC330032J00)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.72	2.51	2.63	2.46	2.29	2.63	3.75	3.27	2.99	3.50
Antenna	Aux									
Part Number	0ACCNO25007N(DC330032J10)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.87	1.98	2.47	2.98	2.61	2.54	3.71	2.84	3.11	2.75

Note: Antenna information is provided by the applicant.

Vendor	PULSE									
Antenna	Main									
Part Number	TZ3051D(DC330032K00)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.39	2.17	2.36	2.19	1.89	2.31	3.40	2.95	2.71	3.32
Antenna	Aux									
Part Number	TZ3051E(DC330032K10)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.42	1.65	2.05	2.21	2.35	1.93	3.14	2.45	2.38	2.22

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Manager	FCC Designation number	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/ 150169	TW3702
		SAR 6	Allen Chen	Afu Chen		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	-	-	TW0028/ 200037	
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	-	-	TW0027/ 891563	
		SAR 7	-	-		
Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.						

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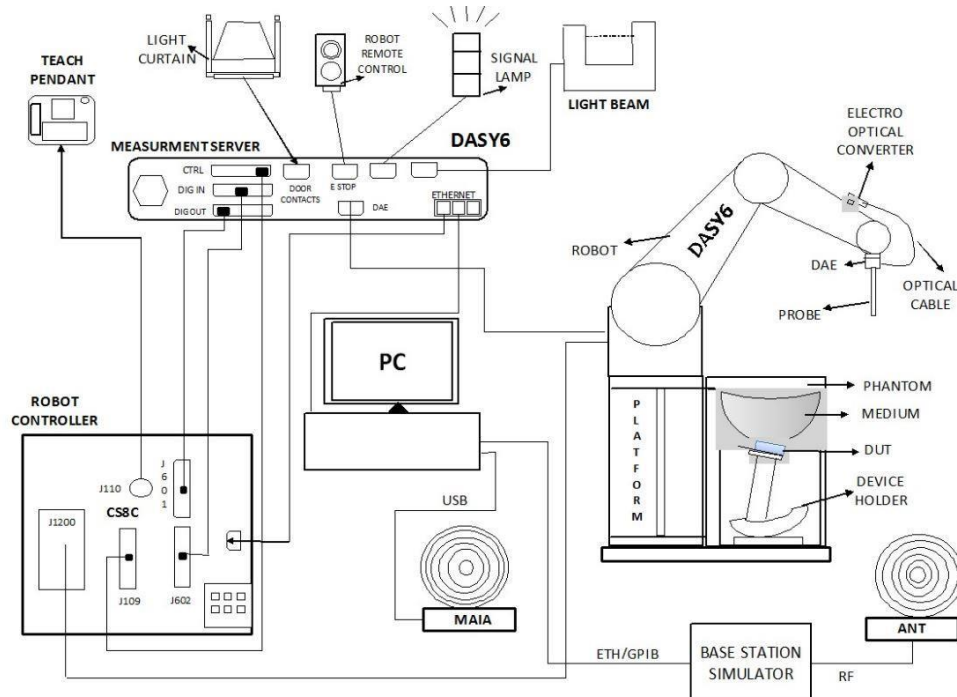
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2.2 SAR System

Block Diagram (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 2450/5250/5600/5750/5850/6500/7000 MHz Additional CF for other liquids and frequencies upon request		
Frequency	10 MHz to > 6 GHz		
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)		
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)		
Dimensions	Tip diameter: 2.5 mm		
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.		

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PHANTOM (ELI)

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

DEVICE HOLDER

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

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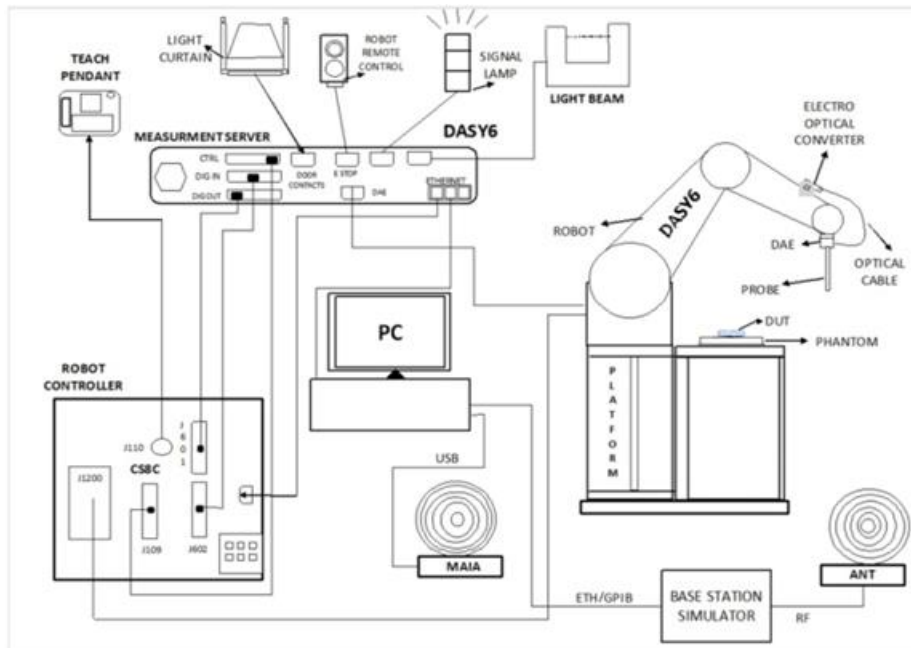
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2.3 PD system

Block Diagram (DASY6)

Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consist of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

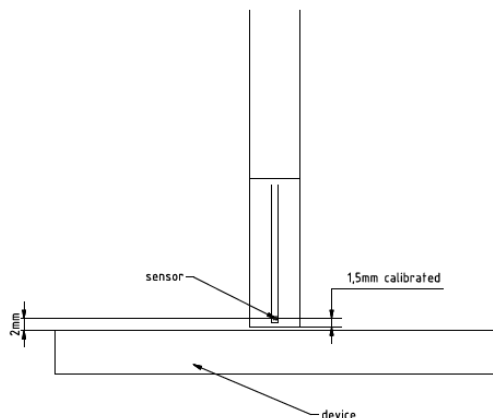
	Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.
Frequency Range	750 MHz – 110 GHz

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Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space).Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)
Compatibility	cDASY6 + 5G-Module SW1.0 and higher



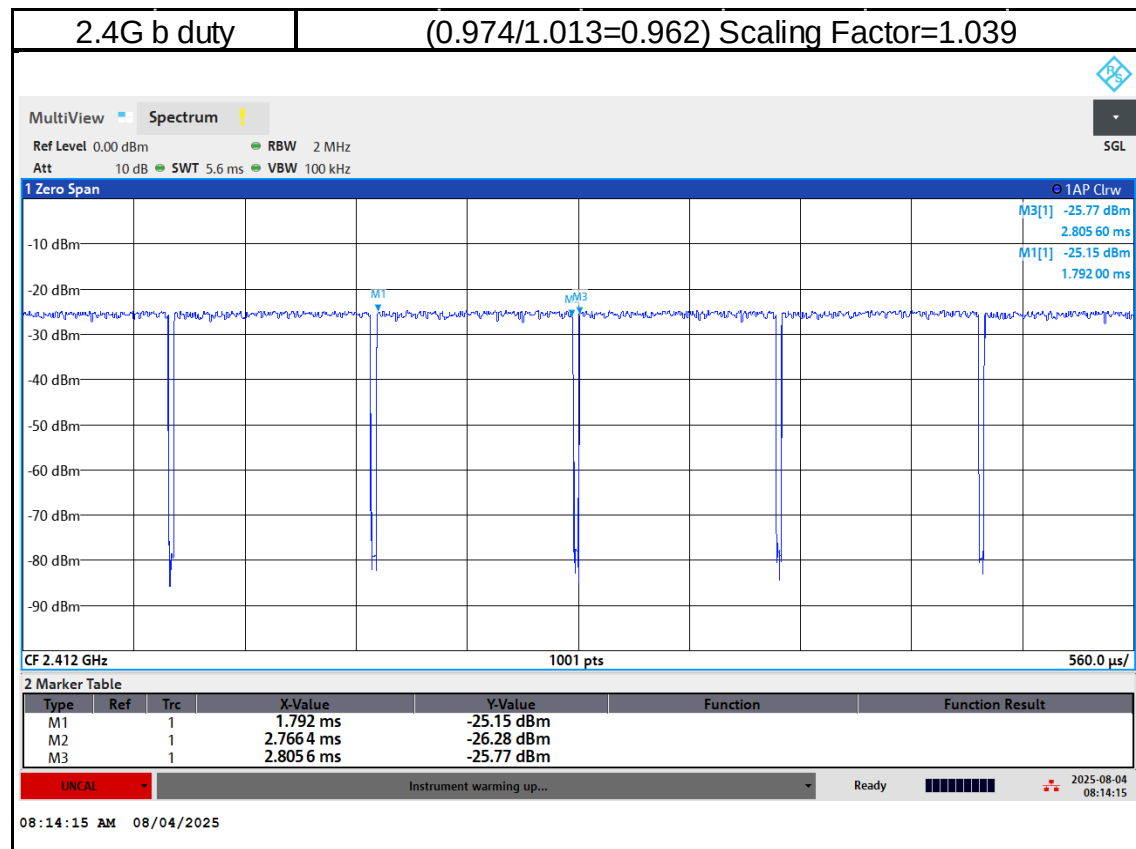
mmWave Phantom

The mmWave Phantom approximates free-space conditions, allowing for the evaluation of the antenna side of the device and the front (screen) side or any opposite-radiating side of wireless devices operating above 10 GHz without distorting the RF field. It consists of a 40mm thick Rohacell plate used as a test bed, which has a loss tangent ($\tan \delta$) ≤ 0.05 and a relative permittivity (ϵ_r) ≤ 1.2 . High-performance RF absorbers are placed below the foam.

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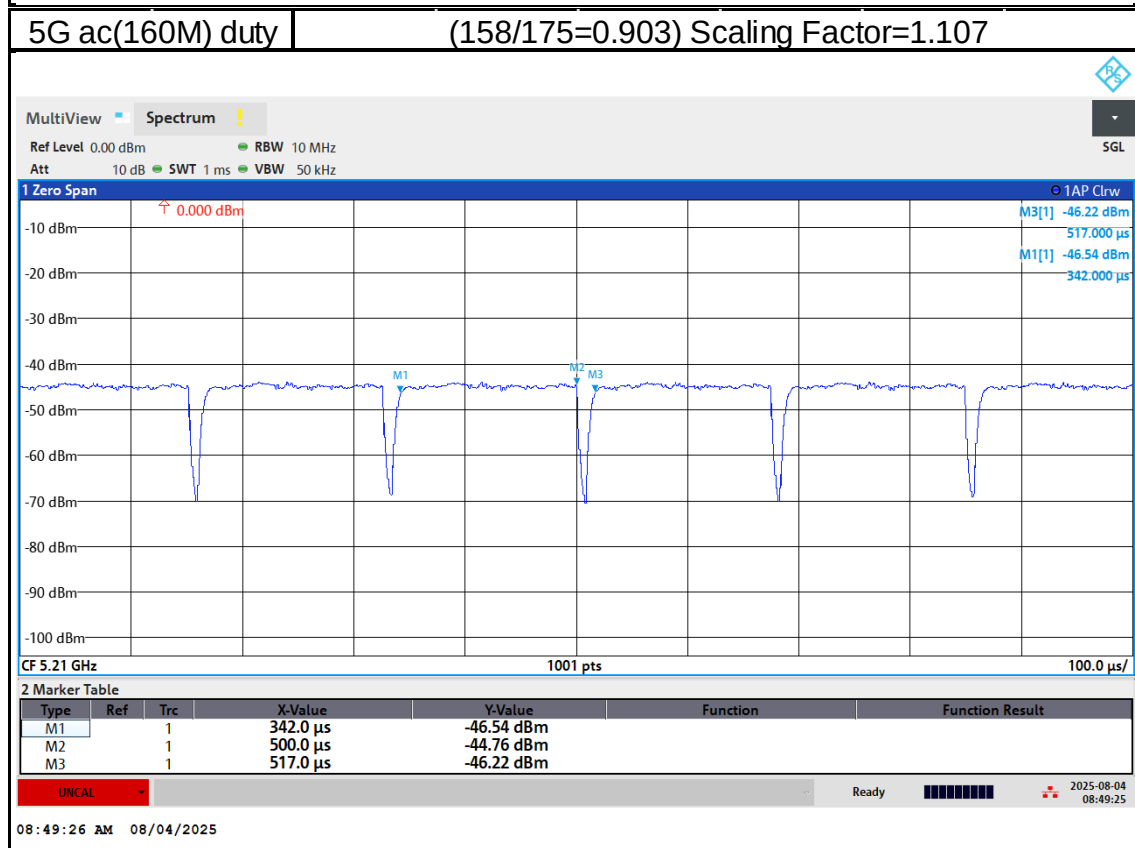
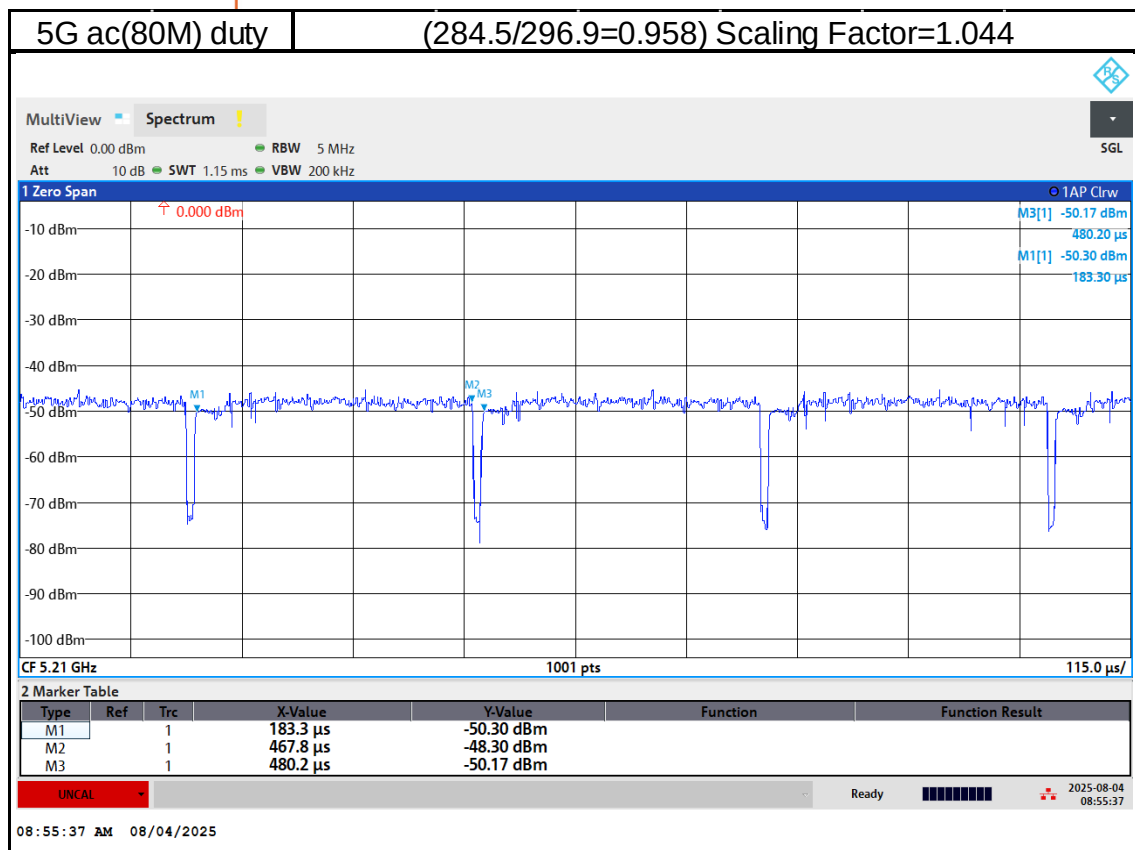
3 DUTY CYCLE



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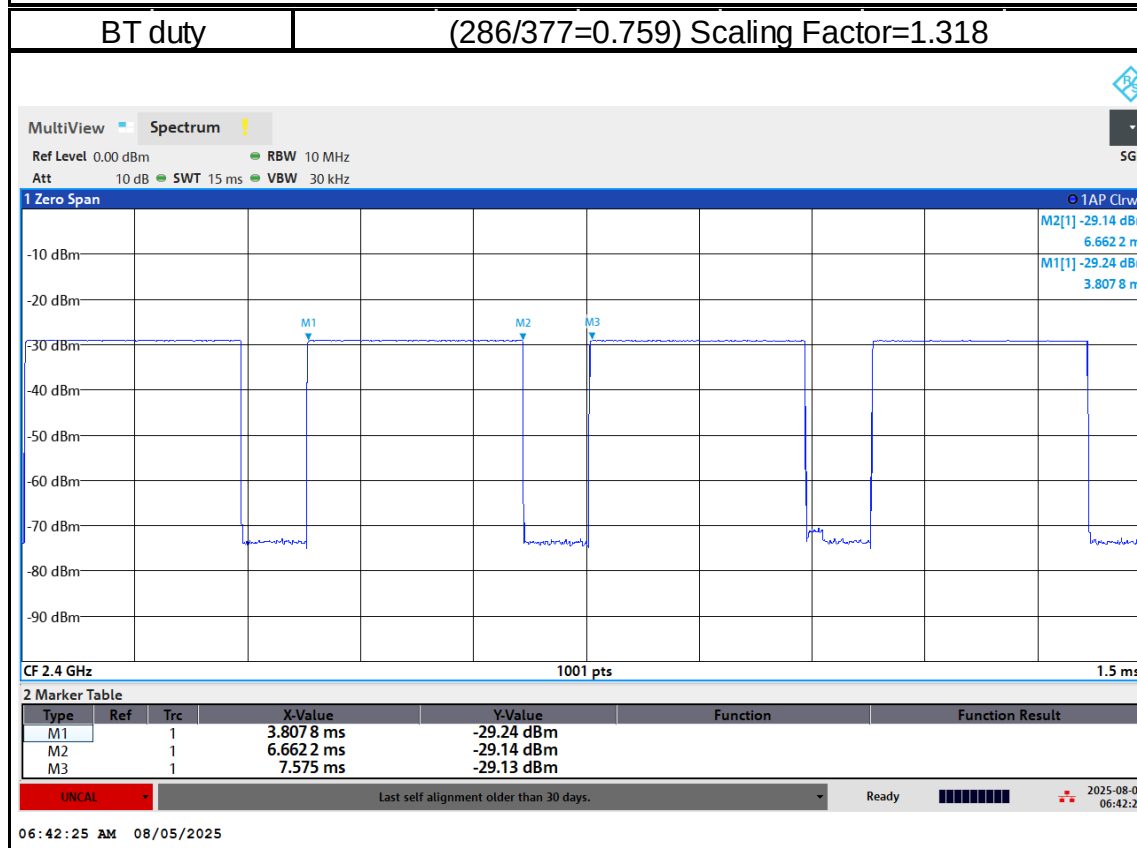
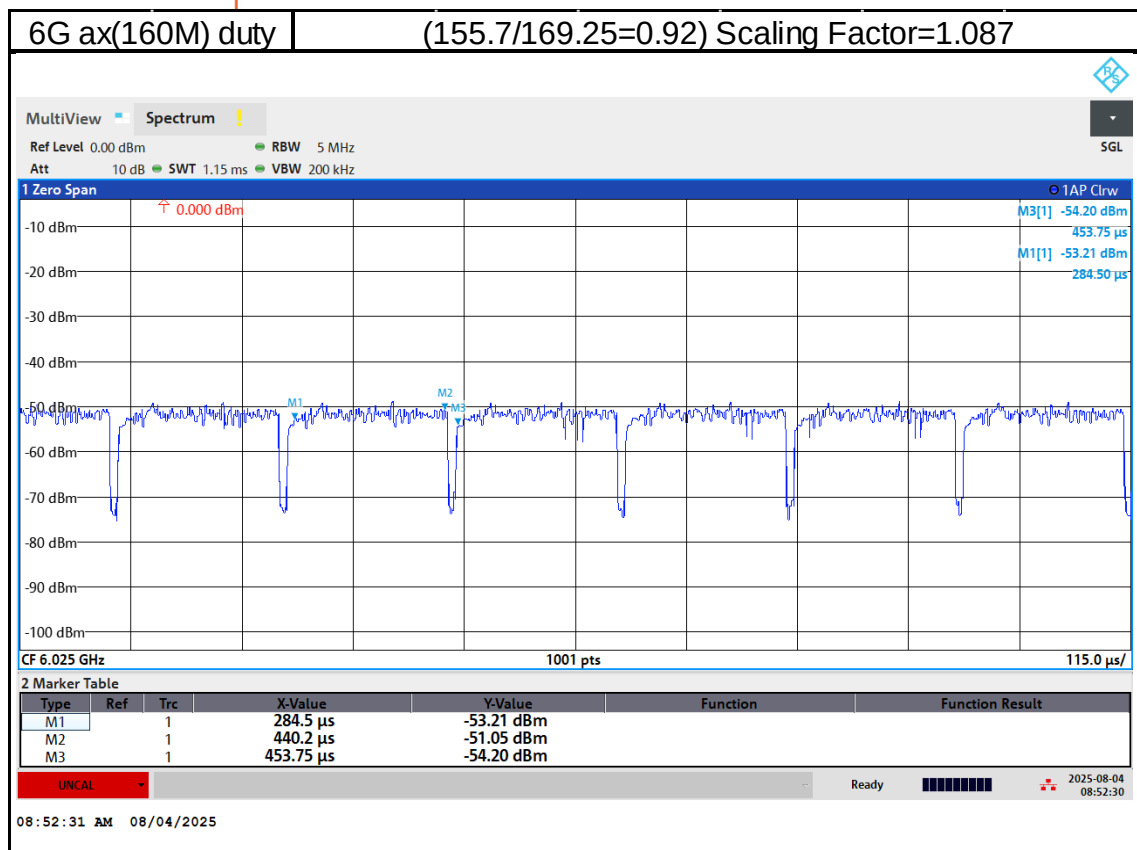
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4 SAR SYSTEM VERIFICATION

4.1 Tissue Simulating Liquid

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

4.2 Tissue Simulant Liquid measurement

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

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

4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	39.296	1.758	40.285	1.841	2.52%	4.70%	$\pm 5\%$	Aug. 04, 2025
2412	39.276	1.767	40.268	1.850	2.53%	4.69%	$\pm 5\%$	Aug. 04, 2025
2437	39.226	1.789	40.223	1.872	2.54%	4.66%	$\pm 5\%$	Aug. 04, 2025
2441	39.218	1.792	40.216	1.876	2.54%	4.68%	$\pm 5\%$	Aug. 04, 2025
2450	39.200	1.800	40.200	1.884	2.55%	4.67%	$\pm 5\%$	Aug. 04, 2025
2462	39.184	1.813	40.185	1.895	2.55%	4.53%	$\pm 5\%$	Aug. 04, 2025
2480	39.160	1.832	40.162	1.911	2.56%	4.31%	$\pm 5\%$	Aug. 04, 2025
5210	35.990	4.670	36.974	4.821	2.73%	3.23%	$\pm 5\%$	Aug. 05, 2025
5250	35.950	4.710	36.929	4.863	2.72%	3.25%	$\pm 5\%$	Aug. 05, 2025
5290	35.910	4.750	36.883	4.905	2.71%	3.26%	$\pm 5\%$	Aug. 05, 2025
5530	35.605	4.997	36.609	5.160	2.82%	3.27%	$\pm 5\%$	Aug. 06, 2025
5570	35.545	5.039	36.563	5.201	2.86%	3.23%	$\pm 5\%$	Aug. 06, 2025
5600	35.500	5.070	36.529	5.233	2.90%	3.21%	$\pm 5\%$	Aug. 06, 2025
5610	35.490	5.080	36.517	5.243	2.89%	3.21%	$\pm 5\%$	Aug. 06, 2025
5690	35.410	5.160	36.426	5.327	2.87%	3.24%	$\pm 5\%$	Aug. 07, 2025
5750	35.350	5.220	36.357	5.391	2.85%	3.28%	$\pm 5\%$	Aug. 07, 2025
5815	35.285	5.286	34.019	5.102	-3.59%	-3.48%	$\pm 5\%$	Aug. 08, 2025
5850	35.250	5.323	33.985	5.141	-3.59%	-3.41%	$\pm 5\%$	Aug. 08, 2025

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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
6025	35.070	5.510	34.545	5.445	-1.50%	-1.17%	± 5%	Aug. 09, 2025
6185	34.878	5.698	34.337	5.607	-1.55%	-1.60%	± 5%	Aug. 09, 2025
6345	34.686	5.887	34.139	5.769	-1.58%	-2.01%	± 5%	Aug. 09, 2025
6500	34.500	6.070	33.961	5.922	-1.56%	-2.44%	± 5%	Aug. 09, 2025
6505	34.494	6.076	33.949	5.928	-1.58%	-2.43%	± 5%	Aug. 09, 2025
6665	34.302	6.261	33.757	6.086	-1.59%	-2.80%	± 5%	Aug. 09, 2025
6825	34.110	6.447	33.555	6.244	-1.63%	-3.15%	± 5%	Aug. 09, 2025
6985	33.918	6.633	32.595	6.423	-3.90%	-3.16%	± 5%	Aug. 09, 2025
7000	33.900	6.650	32.572	6.407	-3.92%	-3.65%	± 5%	Aug. 09, 2025

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4.4 The composition of the tissue simulating liquid:

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

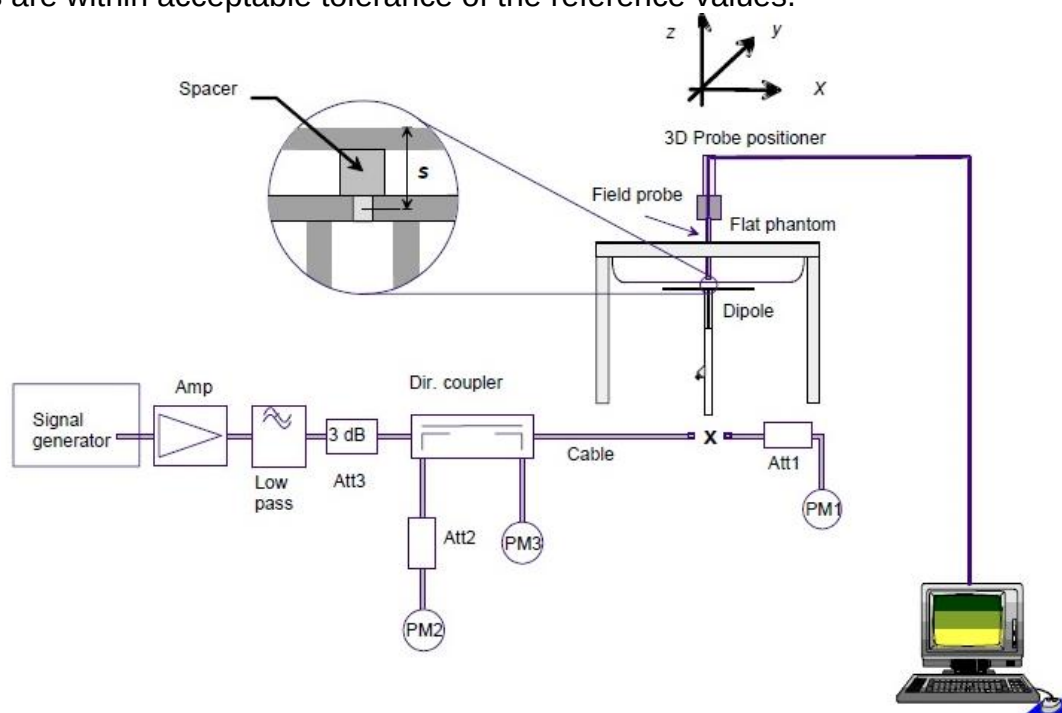
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 System check

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

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

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



The block diagram of system check

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4.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.6	13.7	54.8	4.18	± 10%	Aug.04,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	8.24	82.4	1.85	± 10%	Aug.05,2025
D5GHzV2	1349	5600	82.4	7.92	79.2	-3.88	± 10%	Aug.06,2025
D5GHzV2	1349	5750	80.8	8.03	80.3	-0.62	± 10%	Aug.07,2025
D5GHzV2	1349	5850	79.9	7.51	75.1	-6.01	± 10%	Aug.08,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1029	6500	294	31	310	5.44	± 10%	Aug.09,2025
D6.5GHzV2	1029	6500	294	30.8	308	4.76	± 10%	Aug.10,2025
D7GHzV2	1009	7000	280	28	280	0.00	± 10%	Aug.09,2025
D7GHzV2	1009	7000	280	27.9	279	-0.36	± 10%	Aug.10,2025

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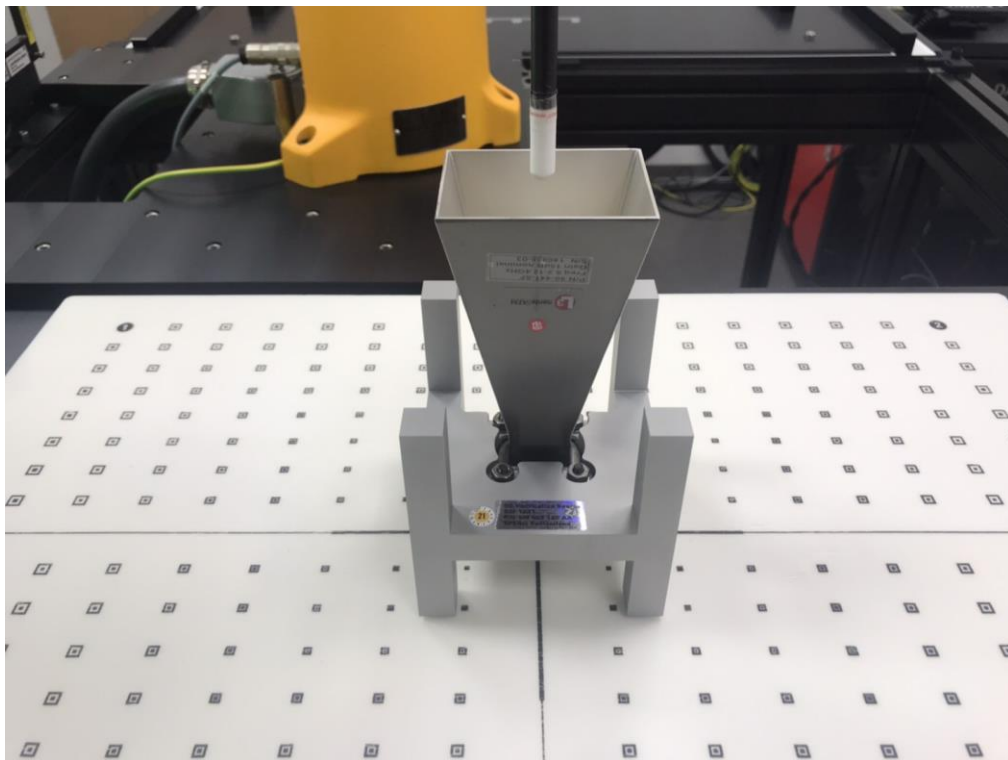
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5 PD SYSTEM VERIFICATION

5.1 System check

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



System Verification Setup Photo

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5.2 System check result

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9616	1336	10	93.3	51	55.5	-0.37	Aug.11,2025

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6 TEST CONFIGURATIONS

6.1 Test Environment

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

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

6.2 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 $\leq 100 \text{ MHz}$. 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 test configuration

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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.

- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209-1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.

- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ with the grid step (0.0625λ) for determining compliance at $d=2\text{mm}$.

- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.

- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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6.3 Test position

Laptop mode SAR test position (0mm)

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

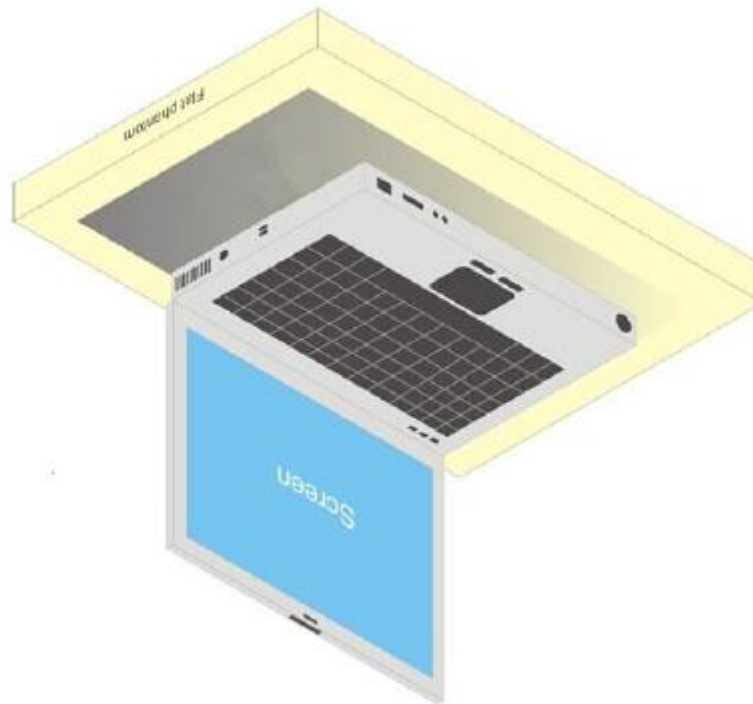


Illustration for Laptop Setup

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6.4 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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7 MAXIMUM OUTPUT POWER

7.1 WLAN

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	15.50	15.47
		6	2437		15.50	15.41
		11	2462		15.50	15.42
	802.11g	1	2412	6Mbps	15.50	NR*
		6	2437		15.50	NR*
		11	2462		14.50	NR*
	802.11n20-HT0	1	2412	MCS0	15.50	NR*
		6	2437		15.50	NR*
		11	2462		14.00	NR*
	802.11ac20-VHT0	1	2412	MCS0	15.50	NR*
		6	2437		15.50	NR*
		11	2462		14.00	NR*
	802.11ax20-HE0	1	2412	MCS0	15.00	NR*
		6	2437		15.50	NR*
		11	2462		12.50	NR*
	802.11n40-HT0	3	2422	MCS0	13.00	NR*
		6	2437		15.50	NR*
		9	2452		15.50	NR*
	802.11ac40-VHT0	3	2422	MCS0	13.00	NR*
		6	2437		15.50	NR*
		9	2452		15.50	NR*
	802.11ax40-HE0	3	2422	MCS0	13.00	NR*
		6	2437		15.50	NR*
		9	2452		15.50	NR*

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11n20-HT0	36	5180	MCS0	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11ac20-VHT0	36	5180	MCS0	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11ax20-HE0	36	5180	MCS0	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11n40-HT0	38	5190	MCS0	12.00	NR*
		46	5230		12.00	NR*
	802.11ac40-VHT0	38	5190	MCS0	12.00	NR*
		46	5230		12.00	NR*
	802.11ax40-HE0	38	5190	MCS0	12.00	NR*
		46	5230		12.00	NR*
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.92
	802.11ax80-HE0	42	5210	MCS0	12.00	NR*
	802.11ac160-VHT0	50	5250	MCS0	9.00	NR*
	802.11ax160-HE0	50	5250	MCS0	9.00	NR*

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11n20-HT0	52	5260	MCS0	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11ac20-VHT0	52	5260	MCS0	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11ax20-HE0	52	5260	MCS0	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11n40-HT0	54	5270	MCS0	12.00	NR*
		62	5310		12.00	NR*
	802.11ac40-VHT0	54	5270	MCS0	12.00	NR*
		62	5310		12.00	NR*
	802.11ax40-HE0	54	5270	MCS0	12.00	NR*
		62	5310		12.00	NR*
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.93
	802.11ax80-HE0	58	5290	MCS0	12.00	NR*

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	11.00	NR*
		120	5600		11.00	NR*
		140	5700		11.00	NR*
		144	5720		11.00	NR*
	802.11n20-HT0	100	5500	MCS0	11.00	NR*
		120	5600		11.00	NR*
		140	5700		11.00	NR*
		144	5720		11.00	NR*
	802.11ac20-VHT0	100	5500	MCS0	11.00	NR*
		120	5600		11.00	NR*
		140	5700		11.00	NR*
		144	5720		11.00	NR*
	802.11ax20-HE0	100	5500	MCS0	11.00	NR*
		120	5600		11.00	NR*
		140	5700		11.00	NR*
		144	5720		11.00	NR*
	802.11n40-HT0	102	5510	MCS0	11.00	NR*
		118	5590		11.00	NR*
		134	5670		11.00	NR*
		142	5710		11.00	NR*
	802.11ac40-VHT0	102	5510	MCS0	11.00	NR*
		118	5590		11.00	NR*
		134	5670		11.00	NR*
		142	5710		11.00	NR*
	802.11ax40-HE0	102	5510	MCS0	11.00	NR*
		118	5590		11.00	NR*
		134	5670		11.00	NR*
		142	5710		11.00	NR*
	802.11ac80-VHT0	106	5530	MCS0	11.00	10.97
		122	5610		11.00	10.92
		138	5690		11.00	10.96
	802.11ax80-HE0	106	5530	MCS0	11.00	NR*
		122	5610		11.00	NR*
		138	5690		11.00	NR*
	802.11ac160-VHT0	114	5570	MCS0	11.00	10.95
	802.11ax160-HE0	114	5570	MCS0	11.00	NR*

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11n20-HT0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11ac20-VHT0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11ax20-HE0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11n40-HT0	151	5755	MCS0	9.00	NR*
		159	5795		9.00	NR*
	802.11ac40-VHT0	151	5755	MCS0	9.00	NR*
		159	5795		9.00	NR*
	802.11ax40-HE0	151	5755	MCS0	9.00	NR*
		159	5795		9.00	NR*
	802.11ac80-VHT0	155	5775	MCS0	9.00	NR*
	802.11ax80-HE0	155	5775	MCS0	9.00	NR*

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11n20-HT0	169	5845	MCS0	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11ac20-VHT0	169	5845	MCS0	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11ax20-HE0	169	5845	MCS0	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11n40-HT0	167	5835	MCS0	9.00	NR*
		175	5875		9.00	NR*
	802.11ac40-VHT0	167	5835	MCS0	9.00	NR*
		175	5875		9.00	NR*
	802.11ax40-HE0	167	5835	MCS0	9.00	NR*
		175	5875		9.00	NR*
	802.11ac80-VHT0	171	5855	MCS0	9.00	NR*
	802.11ax80-HE0	171	5855	MCS0	9.00	NR*
	802.11ac160-VHT0	163	5815	MCS0	9.00	8.96
	802.11ax160-HE0	163	5815	MCS0	9.00	NR*

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	15.50	15.48
		6	2437		15.50	15.49
		11	2462		15.50	15.47
	802.11g	1	2412	6Mbps	15.50	NR*
		6	2437		15.50	NR*
		11	2462		14.50	NR*
	802.11n20-HT0	1	2412	MCS0	15.50	NR*
		6	2437		15.50	NR*
		11	2462		14.00	NR*
	802.11ac20-VHT0	1	2412	MCS0	15.50	NR*
		6	2437		15.50	NR*
		11	2462		14.00	NR*
	802.11ax20-HE0	1	2412	MCS0	15.00	NR*
		6	2437		15.50	NR*
		11	2462		12.50	NR*
	802.11n40-HT0	3	2422	MCS0	13.00	NR*
		6	2437		15.50	NR*
		9	2452		15.50	NR*
	802.11ac40-VHT0	3	2422	MCS0	13.00	NR*
		6	2437		15.50	NR*
		9	2452		15.50	NR*
	802.11ax40-HE0	3	2422	MCS0	13.00	NR*
		6	2437		15.50	NR*
		9	2452		15.50	NR*

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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	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11n20-HT0	36	5180	MCS0	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11ac20-VHT0	36	5180	MCS0	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11ax20-HE0	36	5180	MCS0	12.00	NR*
		40	5200		12.00	NR*
		44	5220		12.00	NR*
		48	5240		12.00	NR*
	802.11n40-HT0	38	5190	MCS0	12.00	NR*
		46	5230		12.00	NR*
	802.11ac40-VHT0	38	5190	MCS0	12.00	NR*
		46	5230		12.00	NR*
	802.11ax40-HE0	38	5190	MCS0	12.00	NR*
		46	5230		12.00	NR*
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.99
	802.11ax80-HE0	42	5210	MCS0	12.00	NR*
	802.11ac160-VHT0	50	5250	MCS0	9.00	NR*
	802.11ax160-HE0	50	5250	MCS0	9.00	NR*

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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	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11n20-HT0	52	5260	MCS0	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11ac20-VHT0	52	5260	MCS0	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11ax20-HE0	52	5260	MCS0	12.00	NR*
		56	5280		12.00	NR*
		60	5300		12.00	NR*
		64	5320		12.00	NR*
	802.11n40-HT0	54	5270	MCS0	12.00	NR*
		62	5310		12.00	NR*
	802.11ac40-VHT0	54	5270	MCS0	12.00	NR*
		62	5310		12.00	NR*
	802.11ax40-HE0	54	5270	MCS0	12.00	NR*
		62	5310		12.00	NR*
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.92
	802.11ax80-HE0	58	5290	MCS0	12.00	NR*

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	12.00	NR*
		120	5600		12.00	NR*
		140	5700		12.00	NR*
		144	5720		12.00	NR*
	802.11n20-HT0	100	5500	MCS0	12.00	NR*
		120	5600		12.00	NR*
		140	5700		12.00	NR*
		144	5720		12.00	NR*
	802.11ac20-VHT0	100	5500	MCS0	12.00	NR*
		120	5600		12.00	NR*
		140	5700		12.00	NR*
		144	5720		12.00	NR*
	802.11ax20-HE0	100	5500	MCS0	12.00	NR*
		120	5600		12.00	NR*
		140	5700		12.00	NR*
		144	5720		12.00	NR*
	802.11n40-HT0	102	5510	MCS0	12.00	NR*
		118	5590		12.00	NR*
		134	5670		12.00	NR*
		142	5710		12.00	NR*
	802.11ac40-VHT0	102	5510	MCS0	12.00	NR*
		118	5590		12.00	NR*
		134	5670		12.00	NR*
		142	5710		12.00	NR*
	802.11ax40-HE0	102	5510	MCS0	12.00	NR*
		118	5590		12.00	NR*
		134	5670		12.00	NR*
		142	5710		12.00	NR*
	802.11ac80-VHT0	106	5530	MCS0	12.00	11.95
		122	5610		12.00	11.91
		138	5690		12.00	11.92
	802.11ax80-HE0	106	5530	MCS0	12.00	NR*
		122	5610		12.00	NR*
		138	5690		12.00	NR*
	802.11ac160-VHT0	114	5570	MCS0	12.00	11.93
	802.11ax160-HE0	114	5570	MCS0	12.00	NR*

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11n20-HT0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11ac20-VHT0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11ax20-HE0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
	802.11n40-HT0	151	5755	MCS0	9.00	NR*
		159	5795		9.00	NR*
	802.11ac40-VHT0	151	5755	MCS0	9.00	NR*
		159	5795		9.00	NR*
	802.11ax40-HE0	151	5755	MCS0	9.00	NR*
		159	5795		9.00	NR*
	802.11ac80-VHT0	155	5775	MCS0	9.00	NR*
	802.11ax80-HE0	155	5775	MCS0	9.00	NR*

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11n20-HT0	169	5845	MCS0	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11ac20-VHT0	169	5845	MCS0	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11ax20-HE0	169	5845	MCS0	9.00	NR*
		173	5865		9.00	NR*
		177	5885		9.00	NR*
	802.11n40-HT0	167	5835	MCS0	9.00	NR*
		175	5875		9.00	NR*
	802.11ac40-VHT0	167	5835	MCS0	9.00	NR*
		175	5875		9.00	NR*
	802.11ax40-HE0	167	5835	MCS0	9.00	NR*
		175	5875		9.00	NR*
	802.11ac80-VHT0	171	5855	MCS0	9.00	NR*
	802.11ax80-HE0	171	5855	MCS0	9.00	NR*
	802.11ac160-VHT0	163	5815	MCS0	9.00	8.93
	802.11ax160-HE0	163	5815	MCS0	9.00	NR*

*NR -Not required

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7.2 WLAN 6GHz

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	7.00	NR*
		45	6175		7.00	NR*
		93	6415		7.00	NR*
	802.11ax40-HE0	3	5965	MCS0	10.00	NR*
		43	6165		10.00	NR*
		91	6405		10.00	NR*
	802.11ax80-HE0	7	5985	MCS0	11.00	NR*
		39	6145		11.00	NR*
		87	6385		11.00	NR*
	802.11ax160-HE0	15	6025	MCS0	11.00	10.92
		47	6185		11.00	10.98
		79	6345		11.00	10.92
Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	7.00	NR*
		105	6475		7.00	NR*
		113	6515		7.00	NR*
	802.11ax40-HE0	99	6445	MCS0	10.00	NR*
		107	6485		10.00	NR*
	802.11ax80-HE0	103	6465	MCS0	11.00	NR*
		119	6545		11.00	NR*
	802.11ax160-HE0	111	6505	MCS0	11.00	10.96

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	NR*
		149	6695		7.00	NR*
		181	6855		7.00	NR*
	802.11ax40-HE0	115	6525	MCS0	10.00	NR*
		147	6685		10.00	NR*
		179	6845		10.00	NR*
	802.11ax80-HE0	135	6625	MCS0	11.00	NR*
		151	6705		11.00	NR*
		167	6785		11.00	NR*
	802.11ax160-HE0	143	6665	MCS0	11.00	10.98
		175	6825		11.00	10.92
Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	7.00	NR*
		209	6995		7.00	NR*
		233	7115		7.00	NR*
	802.11ax40-HE0	187	6885	MCS0	10.00	NR*
		227	7085		10.00	NR*
	802.11ax80-HE0	183	6865	MCS0	11.00	NR*
		199	6945		11.00	NR*
		215	7025		11.00	NR*
	802.11ax160-HE0	207	6985	MCS0	11.00	10.98

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	7.00	NR*
		45	6175		7.00	NR*
		93	6415		7.00	NR*
	802.11ax40-HE0	3	5965	MCS0	10.00	NR*
		43	6165		10.00	NR*
		91	6405		10.00	NR*
	802.11ax80-HE0	7	5985	MCS0	11.00	NR*
		39	6145		11.00	NR*
		87	6385		11.00	NR*
	802.11ax160-HE0	15	6025	MCS0	11.00	10.94
		47	6185		11.00	10.82
		79	6345		11.00	10.95
Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	7.00	NR*
		105	6475		7.00	NR*
		113	6515		7.00	NR*
	802.11ax40-HE0	99	6445	MCS0	10.00	NR*
		107	6485		10.00	NR*
	802.11ax80-HE0	103	6465	MCS0	11.00	NR*
		119	6545		11.00	NR*
	802.11ax160-HE0	111	6505	MCS0	11.00	10.93

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	NR*
		149	6695		7.00	NR*
		181	6855		7.00	NR*
	802.11ax40-HE0	115	6525	MCS0	10.00	NR*
		147	6685		10.00	NR*
		179	6845		10.00	NR*
	802.11ax80-HE0	135	6625	MCS0	11.00	NR*
		151	6705		11.00	NR*
		167	6785		11.00	NR*
	802.11ax160-HE0	143	6665	MCS0	11.00	10.88
		175	6825		11.00	10.97
Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	7.00	NR*
		209	6995		7.00	NR*
		233	7115		7.00	NR*
	802.11ax40-HE0	187	6885	MCS0	10.00	NR*
		227	7085		10.00	NR*
	802.11ax80-HE0	183	6865	MCS0	11.00	NR*
		199	6945		11.00	NR*
		215	7025		11.00	NR*
	802.11ax160-HE0	207	6985	MCS0	11.00	10.88

*NR -Not required

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VLP

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	3.50	NR*
		105	6475		3.50	NR*
		113	6515		3.50	NR*
	802.11ax40-HE0	99	6445	MCS0	6.50	NR*
		107	6485		6.50	NR*
	802.11ax80-HE0	103	6465	MCS0	9.00	NR*
		119	6545		9.00	NR*
	802.11ax160-HE0	111	6505	MCS0	9.00	NR*
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	3.50	NR*
		209	6995		3.50	NR*
		233	7115		3.50	NR*
	802.11ax40-HE0	187	6885	MCS0	6.50	NR*
		227	7085		6.50	NR*
	802.11ax80-HE0	183	6865	MCS0	9.00	NR*
		199	6945		9.00	NR*
		215	7025		9.00	NR*
	802.11ax160-HE0	207	6985	MCS0	9.00	NR*

According to the FCC guidance document KDB248227 D01 v02r02, SAR testing is only required at the maximum output power setting. It is not necessary to perform SAR measurements at lower power levels.

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7.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	12.50	12.33	10.00	NR*	10.00	NR*
	CH 39	2441		12.21		NR*		NR*
	CH 78	2480		12.28		NR*		NR*

*NR -Not required

7.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	8	NR*
	CH 19	2440		NR*
	CH 39	2480		NR*
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	9	NR*
	CH 19	2440		NR*
	CH 39	2480		NR*

*NR -Not required

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8 SUMMARY OF RESULTS

8.1 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.

8.2 Summary of SAR Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Main	Bottom Surface	0	1	2412	15.50	15.47	1.04	100.69%	0.588	0.615	-
WLAN 802.11b	Main	Bottom Surface	0	6	2437	15.50	15.41	1.04	102.09%	0.662	0.702	-
WLAN 802.11b	Main	Bottom Surface	0	11	2462	15.50	15.42	1.04	101.86%	0.709	0.750	001
WLAN 802.11b	Main	Front Edge of Keyboard	0	1	2412	15.50	15.47	1.04	100.69%	0.484	0.506	014
WLAN 802.11b	Main	Front Edge of Keyboard	0	6	2437	15.50	15.41	1.04	102.09%	0.420	0.446	-
WLAN 802.11b	Main	Front Edge of Keyboard	0	11	2462	15.50	15.42	1.04	101.86%	0.451	0.477	-
WLAN 802.11b	Main	Bottom Surface*	0	11	2462	15.50	15.42	1.04	101.86%	0.676	0.715	-
WLAN 802.11b	Main	Front Edge of Keyboard*	0	1	2412	15.50	15.47	1.04	100.69%	0.437	0.457	-
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) 5.2G	Main	Bottom Surface	0	42	5210	12.00	11.92	1.04	101.86%	0.303	0.322	002
WLAN 802.11ac(80M) 5.2G	Main	Front Edge of Keyboard	0	42	5210	12.00	11.92	1.04	101.86%	0.997	1.060	015
WLAN 802.11ac(80M) 5.2G	Main	Bottom Surface*	0	42	5210	12.00	11.92	1.04	101.86%	0.266	0.283	-
WLAN 802.11ac(80M) 5.2G	Main	Front Edge of Keyboard*	0	42	5210	12.00	11.92	1.04	101.86%	0.943	1.003	-
WLAN 802.11ac(80M) 5.2G	Main	Front Edge of Keyboard**	0	42	5210	12.00	11.92	1.04	101.86%	0.994	1.057	-
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) 5.3G	Main	Bottom Surface	0	58	5290	12.00	11.93	1.04	101.62%	0.313	0.332	003
WLAN 802.11ac(80M) 5.3G	Main	Front Edge of Keyboard	0	58	5290	12.00	11.93	1.04	101.62%	1.110	1.178	016
WLAN 802.11ac(80M) 5.3G	Main	Bottom Surface*	0	58	5290	12.00	11.93	1.04	101.62%	0.269	0.285	-
WLAN 802.11ac(80M) 5.3G	Main	Front Edge of Keyboard*	0	58	5290	12.00	11.93	1.04	101.62%	1.010	1.072	-
WLAN 802.11ac(80M) 5.3G	Main	Front Edge of Keyboard**	0	58	5290	12.00	11.93	1.04	101.62%	1.070	1.135	-
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(160M) 5.6G	Main	Bottom Surface	0	114	5570	11.00	10.95	1.11	101.16%	0.299	0.335	004
WLAN 802.11ac(160M) 5.6G	Main	Front Edge of Keyboard	0	114	5570	11.00	10.95	1.11	101.16%	0.947	1.060	017
WLAN 802.11ac(160M) 5.6G	Main	Bottom Surface*	0	114	5570	11.00	10.95	1.11	101.16%	0.253	0.283	-
WLAN 802.11ac(160M) 5.6G	Main	Front Edge of Keyboard*	0	114	5570	11.00	10.95	1.11	101.16%	0.896	1.003	-
WLAN 802.11ac(160M) 5.6G	Main	Front Edge of Keyboard**	0	114	5570	11.00	10.95	1.11	101.16%	0.941	1.054	-
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(160M) 5.9G	Main	Bottom Surface	0	163	5815	9.00	8.96	1.11	100.93%	0.166	0.185	006
WLAN 802.11ac(160M) 5.9G	Main	Front Edge of Keyboard	0	163	5815	9.00	8.96	1.11	100.93%	0.473	0.528	019
WLAN 802.11ac(160M) 5.9G	Main	Bottom Surface*	0	163	5815	9.00	8.96	1.11	100.93%	0.120	0.134	-
WLAN 802.11ac(160M) 5.9G	Main	Front Edge of Keyboard*	0	163	5815	9.00	8.96	1.11	100.93%	0.428	0.478	-
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	Aux	Bottom Surface	0	1	2412	15.50	15.48	1.04	100.46%	0.558	0.582	-
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	15.50	15.49	1.04	100.23%	0.588	0.612	007
WLAN 802.11b	Aux	Bottom Surface	0	11	2462	15.50	15.47	1.04	100.69%	0.533	0.558	-
WLAN 802.11b	Aux	Front Edge of Keyboard	0	1	2412	15.50	15.48	1.04	100.46%	0.246	0.257	-
WLAN 802.11b	Aux	Front Edge of Keyboard	0	6	2437	15.50	15.49	1.04	100.23%	0.279	0.291	020
WLAN 802.11b	Aux	Front Edge of Keyboard	0	11	2462	15.50	15.47	1.04	100.69%	0.213	0.223	-
WLAN 802.11b	Aux	Bottom Surface*	0	6	2437	15.50	15.49	1.04	100.23%	0.542	0.564	-
WLAN 802.11b	Aux	Front Edge of Keyboard*	0	6	2437	15.50	15.49	1.04	100.23%	0.230	0.240	-
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)	Aux	Bottom Surface	0	00	2402	12.50	12.33	1.32	103.99%	0.163	0.223	-
Bluetooth(GFSK)	Aux	Bottom Surface	0	39	2441	12.50	12.21	1.32	106.91%	0.175	0.247	008
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	12.50	12.28	1.32	105.20%	0.156	0.216	-
Bluetooth(GFSK)	Aux	Front Edge of Keyboard	0	00	2402	12.50	12.33	1.32	103.99%	0.191	0.262	-
Bluetooth(GFSK)	Aux	Front Edge of Keyboard	0	39	2441	12.50	12.21	1.32	106.91%	0.240	0.338	021
Bluetooth(GFSK)	Aux	Front Edge of Keyboard	0	78	2480	12.50	12.28	1.32	105.20%	0.178	0.247	-
Bluetooth(GFSK)	Aux	Bottom Surface*	0	39	2441	12.50	12.21	1.32	106.91%	0.155	0.218	-
Bluetooth(GFSK)	Aux	Front Edge of Keyboard*	0	39	2441	12.50	12.21	1.32	106.91%	0.186	0.262	-
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) 5.2G	Aux	Bottom Surface	0	42	5210	12.00	11.99	1.04	100.23%	0.220	0.230	009
WLAN 802.11ac(80M) 5.2G	Aux	Front Edge of Keyboard	0	42	5210	12.00	11.99	1.04	100.23%	0.817	0.855	022
WLAN 802.11ac(80M) 5.2G	Aux	Bottom Surface*	0	42	5210	12.00	11.99	1.04	100.23%	0.176	0.184	-
WLAN 802.11ac(80M) 5.2G	Aux	Front Edge of Keyboard*	0	42	5210	12.00	11.99	1.04	100.23%	0.764	0.799	-
WLAN 802.11ac(80M) 5.2G	Aux	Front Edge of Keyboard**	0	42	5210	12.00	11.99	1.04	100.23%	0.813	0.851	-

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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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 802.11ac(80M) 5.3G	Aux	Bottom Surface	0	58	5290	12.00	11.92	1.04	101.86%	0.213	0.227	010
WLAN 802.11ac(80M) 5.3G	Aux	Front Edge of Keyboard	0	58	5290	12.00	11.92	1.04	101.86%	0.823	0.875	023
WLAN 802.11ac(80M) 5.3G	Aux	Bottom Surface*	0	58	5290	12.00	11.92	1.04	101.86%	0.165	0.175	-
WLAN 802.11ac(80M) 5.3G	Aux	Front Edge of Keyboard*	0	58	5290	12.00	11.92	1.04	101.86%	0.786	0.836	-
WLAN 802.11ac(80M) 5.3G	Aux	Front Edge of Keyboard**	0	58	5290	12.00	11.92	1.04	101.86%	0.821	0.873	-
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(160M) 5.6G	Aux	Bottom Surface	0	114	5570	12.00	11.93	1.11	101.62%	0.270	0.304	011
WLAN 802.11ac(160M) 5.6G	Aux	Front Edge of Keyboard	0	114	5570	12.00	11.93	1.11	101.62%	1.050	1.181	024
WLAN 802.11ac(160M) 5.6G	Aux	Bottom Surface*	0	114	5570	12.00	11.93	1.11	101.62%	0.238	0.268	-
WLAN 802.11ac(160M) 5.6G	Aux	Front Edge of Keyboard*	0	114	5570	12.00	11.93	1.11	101.62%	0.962	1.082	-
WLAN 802.11ac(160M) 5.6G	Aux	Front Edge of Keyboard**	0	114	5570	12.00	11.93	1.11	101.62%	1.020	1.147	-
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(160M) 5.9G	Aux	Bottom Surface	0	163	5815	9.00	8.93	1.11	101.62%	0.146	0.164	013
WLAN 802.11ac(160M) 5.9G	Aux	Front Edge of Keyboard	0	163	5815	9.00	8.93	1.11	101.62%	0.541	0.609	026
WLAN 802.11ac(160M) 5.9G	Aux	Bottom Surface*	0	163	5815	9.00	8.93	1.11	101.62%	0.104	0.117	-
WLAN 802.11ac(160M) 5.9G	Aux	Front Edge of Keyboard*	0	163	5815	9.00	8.93	1.11	101.62%	0.492	0.553	-

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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	15	6025	11.00	10.92	1.09	101.86%	0.286	0.317	2.3	2.547	027
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	47	6185	11.00	10.98	1.09	100.46%	0.239	0.261	1.85	2.020	028
U-NII-5 6.2GHz 802.11ax(160M)	Main	Front Edge of Keyboard	0	15	6025	11.00	10.92	1.09	101.86%	0.569	0.630	4.06	4.495	037
U-NII-5 6.2GHz 802.11ax(160M)	Main	Front Edge of Keyboard	0	47	6185	11.00	10.98	1.09	100.46%	0.534	0.583	3.43	3.746	038
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface*	0	15	6025	11.00	10.92	1.09	101.86%	0.233	0.258	1.79	1.982	-
U-NII-5 6.2GHz 802.11ax(160M)	Main	Front Edge of Keyboard*	0	15	6025	11.00	10.92	1.09	101.86%	0.522	0.578	3.31	3.665	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Surface	0	111	6505	11.00	10.96	1.09	100.93%	0.254	0.279	1.84	2.019	029
U-NII-6 6.5GHz 802.11ax(160M)	Main	Front Edge of Keyboard	0	111	6505	11.00	10.96	1.09	100.93%	0.654	0.717	4.01	4.399	039
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Surface*	0	111	6505	11.00	10.96	1.09	100.93%	0.206	0.226	1.28	1.404	-
U-NII-6 6.5GHz 802.11ax(160M)	Main	Front Edge of Keyboard*	0	111	6505	11.00	10.96	1.09	100.93%	0.606	0.665	3.85	4.224	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Surface	0	143	6665	11.00	10.98	1.09	100.46%	0.277	0.302	1.98	2.162	030
U-NII-7 6.7GHz 802.11ax(160M)	Main	Front Edge of Keyboard	0	143	6665	11.00	10.98	1.09	100.46%	0.577	0.630	3.57	3.899	040
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Surface*	0	143	6665	11.00	10.98	1.09	100.46%	0.221	0.241	1.67	1.824	-
U-NII-7 6.7GHz 802.11ax(160M)	Main	Front Edge of Keyboard*	0	143	6665	11.00	10.98	1.09	100.46%	0.530	0.579	3.4	3.713	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Main	Bottom Surface	0	207	6985	11.00	10.98	1.09	100.46%	0.291	0.318	2.01	2.195	031
U-NII-8 7.0GHz 802.11ax(160M)	Main	Front Edge of Keyboard	0	207	6985	11.00	10.98	1.09	100.46%	0.386	0.422	2.41	2.632	041
U-NII-8 7.0GHz 802.11ax(160M)	Main	Bottom Surface*	0	207	6985	11.00	10.98	1.09	100.46%	0.250	0.273	1.72	1.878	-
U-NII-8 7.0GHz 802.11ax(160M)	Main	Front Edge of Keyboard*	0	207	6985	11.00	10.98	1.09	100.46%	0.337	0.368	2.13	2.326	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	15	6025	11.00	10.94	1.09	101.39%	0.198	0.218	1.65	1.819	032
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	79	6345	11.00	10.95	1.09	101.16%	0.185	0.203	1.48	1.627	033
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Front Edge of Keyboard	0	15	6025	11.00	10.94	1.09	101.39%	0.562	0.619	3.85	4.243	042
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Front Edge of Keyboard	0	47	6185	11.00	10.82	1.09	104.23%	0.436	0.494	2.77	3.138	-
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Front Edge of Keyboard	0	79	6345	11.00	10.95	1.09	101.16%	0.491	0.540	3.11	3.420	043
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface*	0	15	6025	11.00	10.94	1.09	101.39%	0.152	0.168	1.24	1.367	-
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Front Edge of Keyboard*	0	15	6025	11.00	10.94	1.09	101.39%	0.510	0.562	3.22	3.549	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Surface	0	111	6505	11.00	10.93	1.09	101.62%	0.203	0.224	1.51	1.668	034
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Front Edge of Keyboard	0	111	6505	11.00	10.93	1.09	101.62%	0.463	0.511	2.9	3.204	044
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Surface*	0	111	6505	11.00	10.93	1.09	101.62%	0.166	0.183	1.35	1.491	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Front Edge of Keyboard*	0	111	6505	11.00	10.93	1.09	101.62%	0.411	0.454	2.48	2.740	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface	0	175	6825	11.00	10.97	1.09	100.69%	0.262	0.287	1.8	1.970	035
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Front Edge of Keyboard	0	175	6825	11.00	10.97	1.09	100.69%	0.429	0.470	2.7	2.955	045
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface*	0	175	6825	11.00	10.97	1.09	100.69%	0.218	0.239	1.57	1.718	-
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Front Edge of Keyboard*	0	175	6825	11.00	10.97	1.09	100.69%	0.379	0.415	2.45	2.682	-
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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Bottom Surface	0	207	6985	11.00	10.88	1.09	102.80%	0.294	0.329	2	2.235	036
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Front Edge of Keyboard	0	207	6985	11.00	10.88	1.09	102.80%	0.373	0.417	2.38	2.660	046
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Bottom Surface*	0	207	6985	11.00	10.88	1.09	102.80%	0.259	0.289	1.78	1.989	-
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Front Edge of Keyboard*	0	207	6985	11.00	10.88	1.09	102.80%	0.326	0.364	2.04	2.280	-

Note: * - Pulse Spot check

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Note:

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

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

8.3 Summary of PD Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Main	Front Edge of Keyboard	2	15	6025	11.00	10.92	101.86%	1.09	1.55	4.690	8.049	3.890	6.676	047
	Main	Front Edge of Keyboard	2	47	6185	11.00	10.98	100.46%	1.09	1.55	3.200	5.416	2.740	4.638	048
WLAN 6E 802.11ax(160M) U-NII-6	Main	Front Edge of Keyboard	2	111	6505	11.00	10.96	100.93%	1.09	1.55	2.870	4.880	2.320	3.945	049
	Main	Front Edge of Keyboard	2	143	6665	11.00	10.98	100.48%	1.09	1.55	2.030	3.436	1.630	2.759	050
WLAN 6E 802.11ax(160M) U-NII-8	Main	Front Edge of Keyboard	2	207	6985	11.00	10.98	100.46%	1.09	1.55	2.300	3.893	1.560	2.640	051
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Aux	Front Edge of Keyboard	2	15	6025	11.00	10.94	101.39%	1.09	1.55	3.580	6.116	3.190	5.449	052
	Aux	Front Edge of Keyboard	2	79	6345	11.00	10.95	101.16%	1.09	1.55	2.770	4.721	1.960	3.341	053
WLAN 6E 802.11ax(160M) U-NII-6	Aux	Front Edge of Keyboard	2	111	6505	11.00	10.93	101.62%	1.09	1.55	2.710	4.640	1.920	3.287	054
WLAN 6E 802.11ax(160M) U-NII-7	Aux	Front Edge of Keyboard	2	175	6825	11.00	10.97	100.69%	1.09	1.55	1.760	2.986	1.380	2.341	055
WLAN 6E 802.11ax(160M) U-NII-8	Aux	Front Edge of Keyboard	2	207	6985	11.00	10.88	102.80%	1.09	1.55	1.910	3.308	1.360	2.356	056

Note:

Reported PD = measured PD * Power scaling * Duty cycle scaling * Uncertainty scaling

8.4 Reporting statements of conformity

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

8.5 Conclusion

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

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9 SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
WLAN 2.4GHz Main + WLAN 5GHz Aux
WLAN 2.4GHz Aux + WLAN 5GHz Main
WLAN 2.4GHz Main + WLAN 6GHz Aux
WLAN 2.4GHz Aux + WLAN 6GHz Main
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux
WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux
WLAN 5GHz Main + WLAN 6GHz Aux + BT Aux
WLAN 5GHz Aux + WLAN 6GHz Main + BT Aux

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9.2 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.

9.3 SPLSR evaluation and analysis

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

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

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

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

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

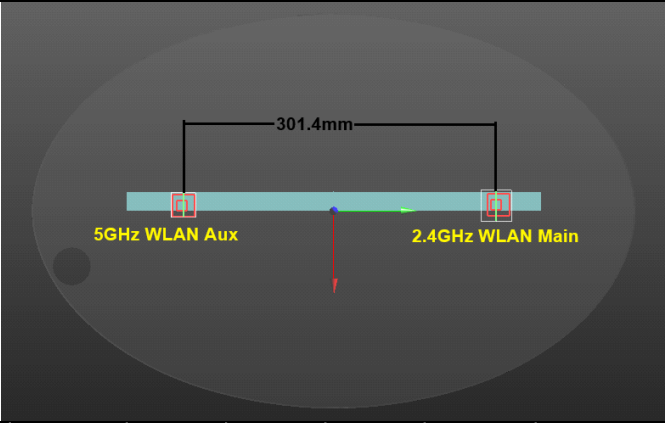
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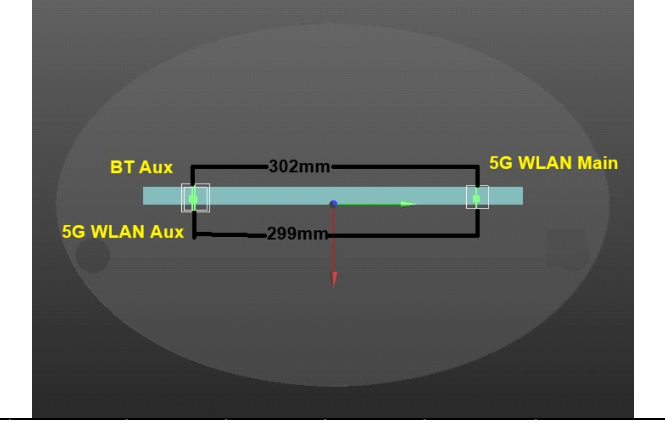
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Simultaneous Transmission Combination

Exposure Position		Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		1	2	3	4	5	6	7	1+4	2+3	3+4+5	2+6	1+7	5+6+7	3+5+7	4+5+6
		2.4GHz WLAN Main 1g SAR (W/kg)	2.4GHz WLAN Aux 1g SAR (W/kg)	5GHz WLAN Main 1g SAR (W/kg)	5GHz WLAN Aux 1g SAR (W/kg)	Bluetooth Aux 1g SAR (W/kg)	6GHz WLAN Main 1g SAR (W/kg)	6GHz WLAN Aux 1g SAR (W/kg)	ΣSAR <1.6							
Bottom Surface	0	0.750	0.612	0.415	0.304	0.247	0.318	0.329	1.054	1.027	0.966	0.930	1.079	0.894	0.991	0.869
Front Edge of Keyboard	0	0.506	0.291	1.178	1.181	0.338	0.717	0.619	1.687	1.469	2.697	1.008	1.125	1.674	2.135	2.235

SPLSR

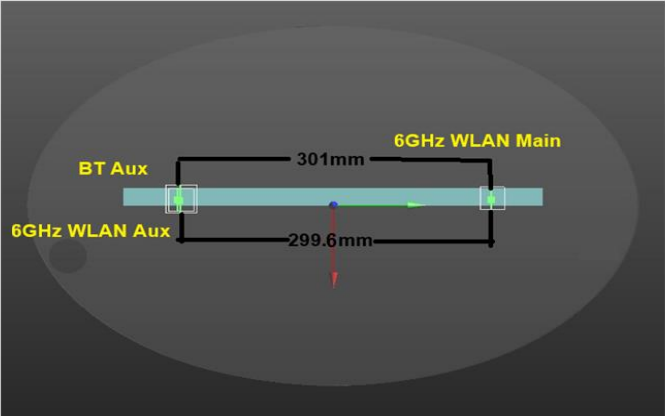
Scenario 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Front Edge of Keyboard	2.4GHz WLAN Main	0.506	-0.62	15.44	-0.40	-	-	-	-
	5GHz WLAN Aux	1.181	-0.52	-14.70	-0.42	1.687	301.40	0.007	SPLSR ≤ 0.04, Not required
									

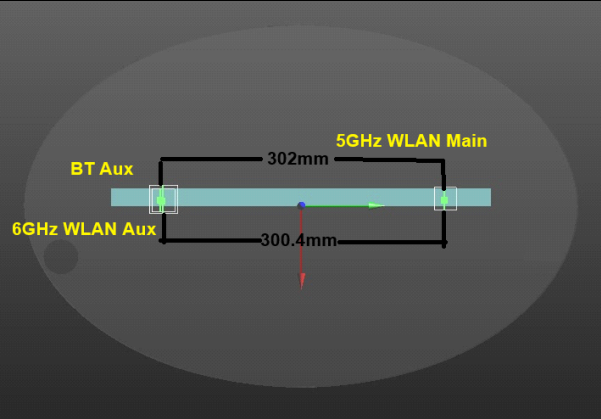
Scenario 3:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Front Edge of Keyboard	5GHz WLAN Main	1.178	-0.64	15.20	-0.41	-	-	-	-
	5GHz WLAN Aux + BT	1.519	-0.52	-14.70	-0.42	2.697	299.00	0.015	SPLSR ≤ 0.04, Not required
									

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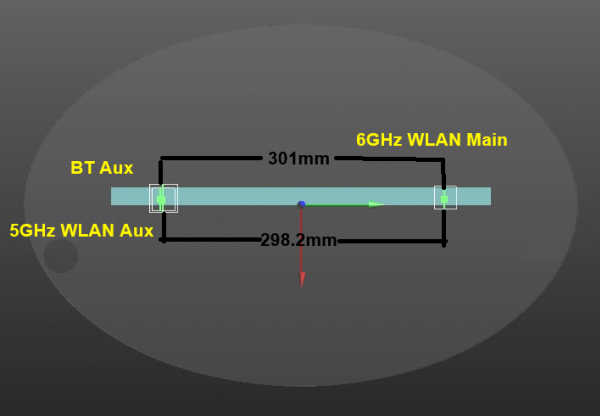
Scenario 6:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Front Edge of Keyboard	6GHz WLAN Main	0.717	-0.60	15.12	-0.41	-	-	-	-
	6GHz WLAN Aux + BT	0.957	-0.52	-14.84	-0.41	1.674	299.60	0.007	SPLSR $\leq$ 0.04, Not required
									

Scenario 7:									
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				
Front Edge of Keyboard	5GHz WLAN Main	1.178	-0.64	15.20	-0.41	-	-	-	-
	6GHz WLAN Aux + BT	0.957	-0.52	-14.84	-0.41	2.135	300.40	0.010	SPLSR $\leq$ 0.04, Not required
									

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Scenario 8:									
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				
Front Edge of Keyboard	6GHz WLAN Main	0.717	-0.60	15.12	-0.41	-	-	-	-
	5GHz WLAN Aux+BT	1.519	-0.52	-14.70	-0.42	2.236	298.20	0.011	SPLSR $\leq$ 0.04, Not required
									

9.4 Conclusion

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

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10 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1336	Aug/15/2024	Aug/14/2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7466	Jan/28/2025	Jan/27/2026
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9616	Mar/14/2025	Mar/13/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	System Validation Dipole	D6.5GHzV2	1029	Jun/12/2025	Jun/11/2026
SPEAG	System Validation Dipole	D7GHzV2	1009	Jun/12/2025	Jun/11/2026
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/16/2025	Jan/15/2026
Keysight	EXA Signal Analyzer	N9010B	MY59071573	Jun/03/2025	Jun/02/2026
R&S	MXG Analog Signal Generator	SMB100A03	182996	Apr/19/2025	Apr/18/2026
Agilent	Dual-directional coupler	772D	MY46151258	Sep/30/2024	Sep/29/2025
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required
R&S	Power Sensor	NRP50S	101770	Jun/26/2025	Jun/25/2026
R&S	Power Sensor	NRP18S	109065	Aug/28/2024	Aug/27/2025
R&S	Power Meter	NRX	102034	Dec/27/2024	Dec/26/2025
SPEAG	Dielectric Assessment Kit	DAK-3.5	1342	May/19/2025	May/18/2026
Agilent	Network Analyzer	E5071C	MY46107530	Apr/24/2025	Apr/23/2026
Keysight	Economy calibration kit	85032E	MY61410221	May/29/2025	May/28/2026
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 V16.0.0.116	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
TECPEL	Digital thermometer	DTM-303A	TP130074	May/15/2025	May/14/2026

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11 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.)	3.92%	N	1	1	0.64	0.43	2.51%	1.69%	M
Liquid Conductivity (mea.)	3.65%	N	1	1	0.6	0.49	2.19%	1.79%	M
Combined standard uncertainty		RSS					12.18%	11.96%	
Expan uncertainty (95% confidence interval), K=2							24.36%	23.92%	

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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 Distribution	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%	∞
<i>Isotropy , Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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.)	2.56%	N	1	1	0.64	0.43	1.64%	1.10%	M
Liquid Conductivity (mea.)	4.70%	N	1	1	0.6	0.49	2.82%	2.30%	M
Combined standard uncertainty		RSS					11.87%	11.69%	
Expart uncertainty (95% confidence interval), K=2							23.75%	23.38%	

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DASY6 Uncertainty Budget
According to IEC/IEEE 62209-1528
(Frequency band: 6GHz - 10GHz range)

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling		R	√3	1.732	1	1	0.0	0.0
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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**cDASY6 Module mmWave Uncertainty Budget for PD
Evaluation Distances to the Antennas $\geq \lambda / 5$
In Compliance with IEC/IEEE 63195**

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
Uncertainty terms dependent on the measurement system							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Frequency response (BW ≤ 1 GHz)	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	∞
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Field impedance dependence	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	∞
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	∞
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	∞
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	∞
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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12 SAR MEASUREMENT RESULTS

Date: 2025/8/4

ID: 001

Report No. :TESA2507000573EN

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.039

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.895$ S/m; $\epsilon_r = 40.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2462 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.862 V/m; Power Drift = -0.01 dB

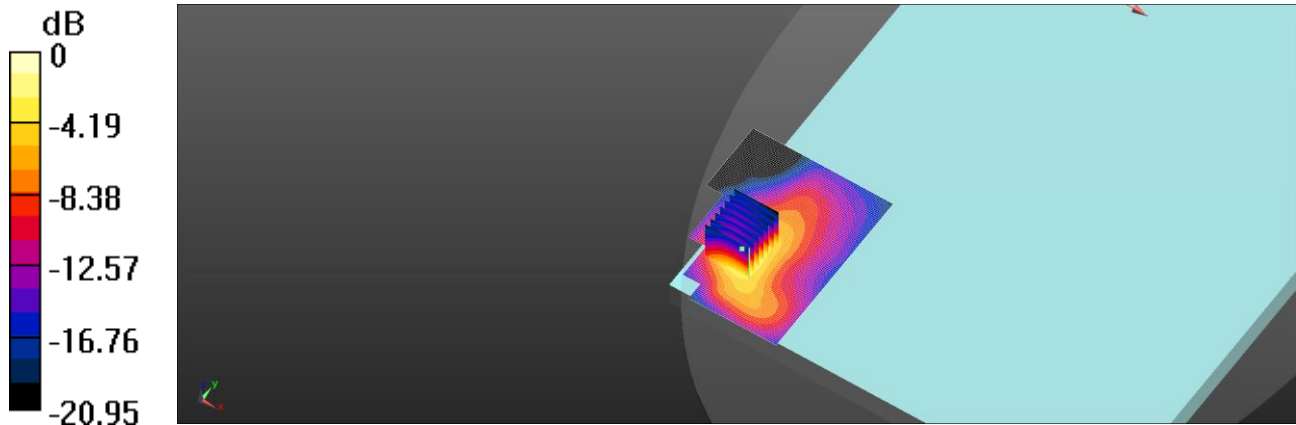
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.346 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.7%

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

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Date: 2025/8/5

ID: 002

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Main

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.821 \text{ S/m}$; $\epsilon_r = 36.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5210 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.680 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.458 V/m; Power Drift = 0.03 dB

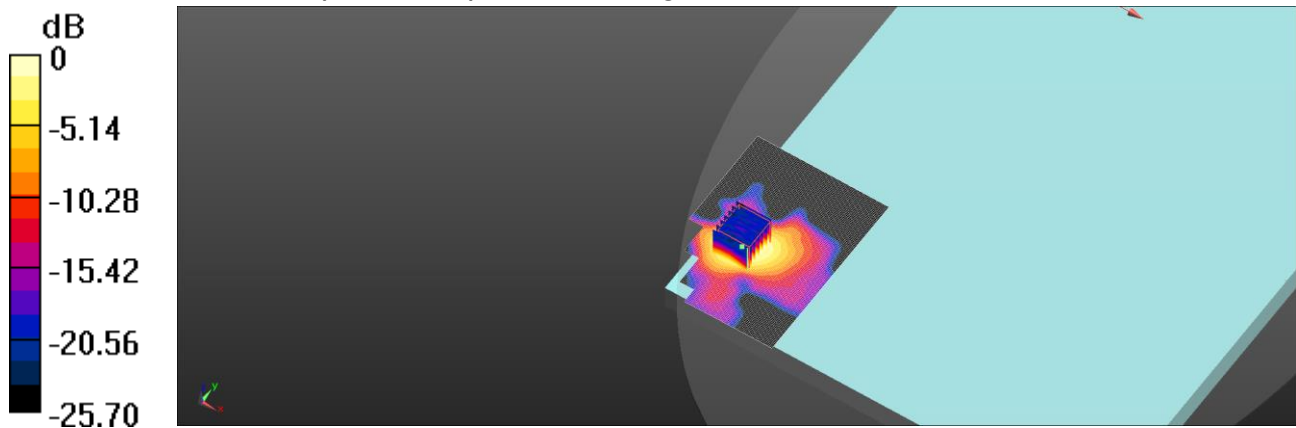
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.113 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.674 W/kg



0 dB = 0.674 W/kg = -1.71 dBW/kg

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Date: 2025/8/5

ID: 003

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.905$ S/m; $\epsilon_r = 36.883$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5290 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.705 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.552 V/m; Power Drift = 0.15 dB

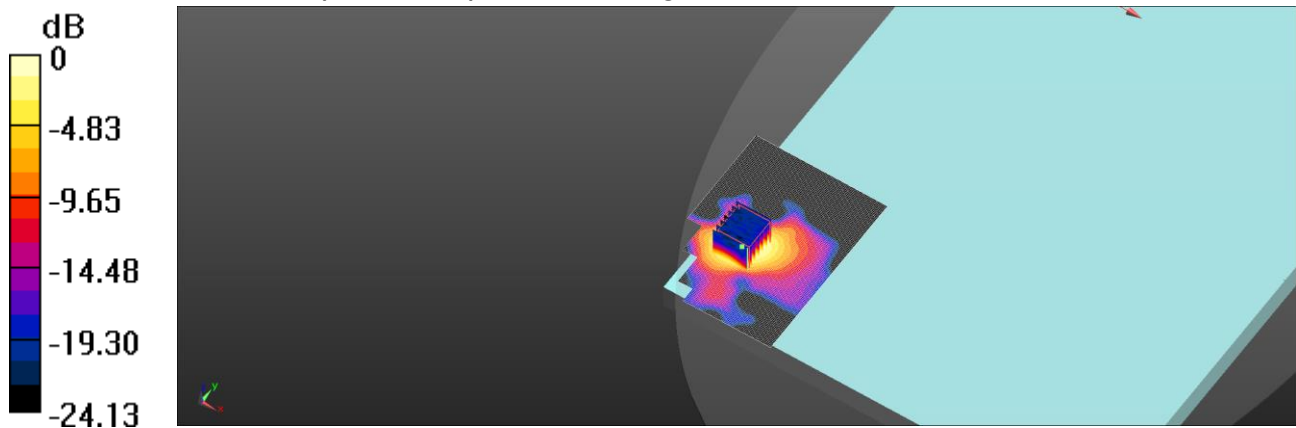
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.117 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.708 W/kg



0 dB = 0.708 W/kg = -1.50 dBW/kg

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Date: 2025/8/6

ID: 004

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.201$ S/m; $\epsilon_r = 36.563$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.16, 4.86, 4.84) @ 5570 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.705 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.229 V/m; Power Drift = 0.11 dB

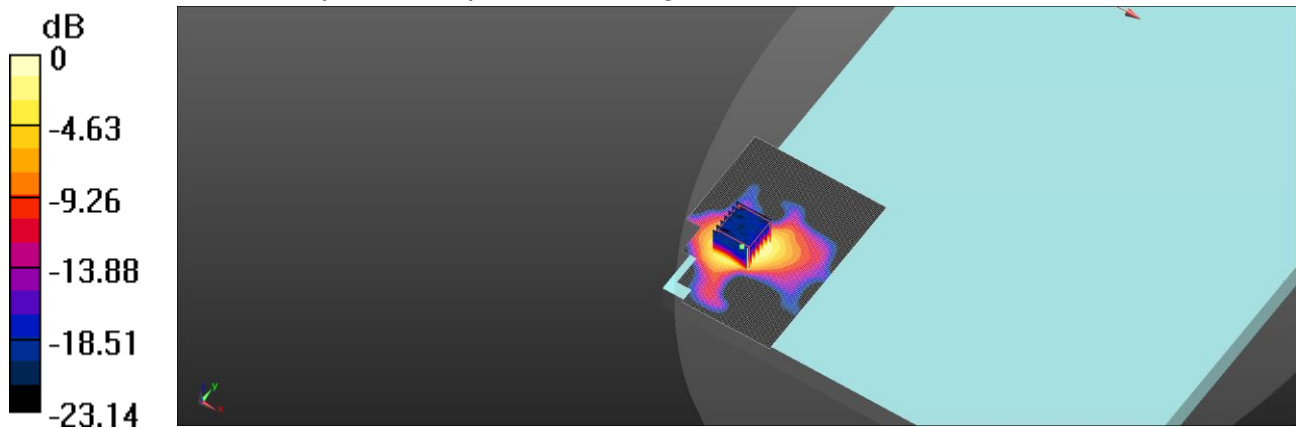
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 0.685 W/kg



0 dB = 0.685 W/kg = -1.64 dBW/kg

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Date: 2025/8/8

ID: 006

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.9G_Body_Bottom Surface_CH 163_0mm_Main

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 34.019$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.07, 4.77, 4.75) @ 5815 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.407 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.127 V/m; Power Drift = 0.03 dB

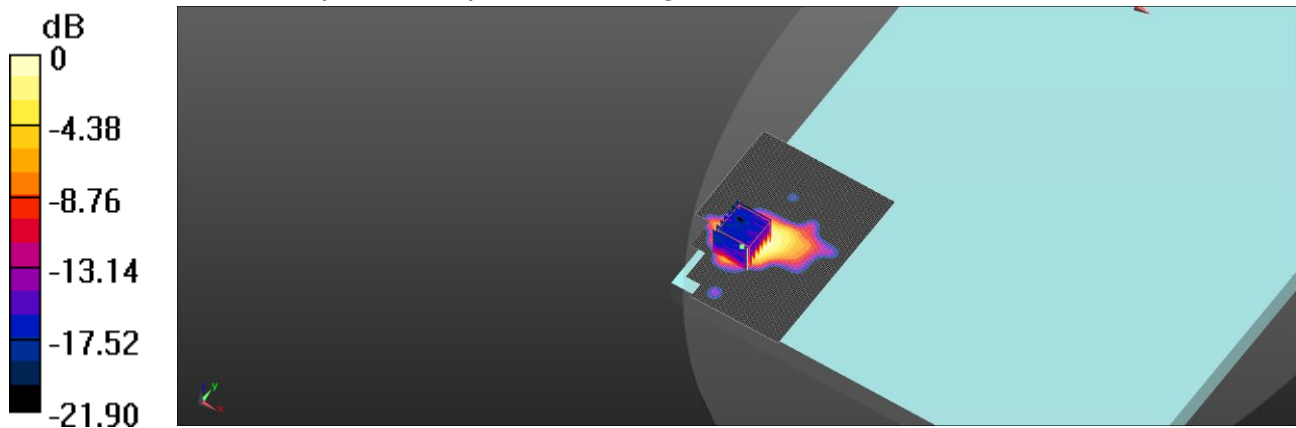
Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 48%

Maximum value of SAR (measured) = 0.391 W/kg



0 dB = 0.391 W/kg = -4.08 dBW/kg

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Date: 2025/8/4

ID: 007

Report No. :TESA2507000573EN

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.039

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.872$ S/m; $\epsilon_r = 40.223$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2437 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.915 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.891 V/m; Power Drift = 0.02 dB

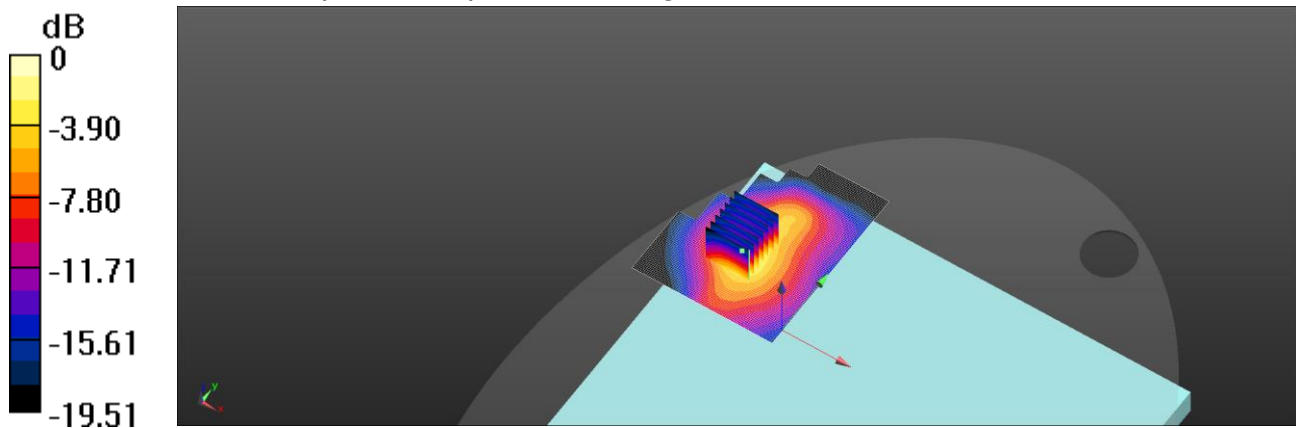
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.291 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 0.941 W/kg



0 dB = 0.941 W/kg = -0.26 dBW/kg

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Date: 2025/8/4

ID: 008

Report No. :TESA2507000573EN

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.318

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 40.216$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2441 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.282 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.145 V/m; Power Drift = 0.01 dB

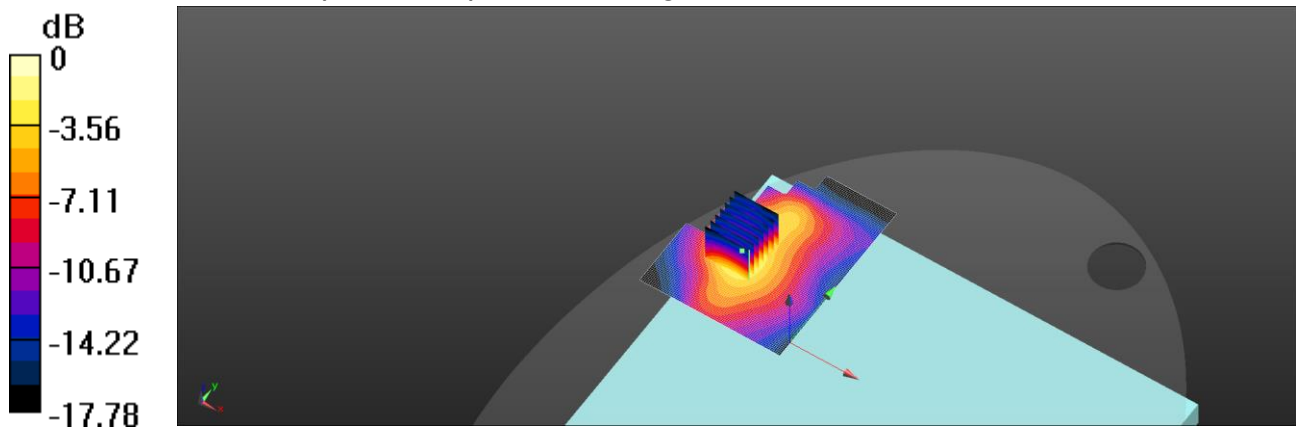
Peak SAR (extrapolated) = 0.333 W/kg

SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.090 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 0.277 W/kg



0 dB = 0.277 W/kg = -5.58 dBW/kg

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Date: 2025/8/5

ID: 009

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Aux

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.821$ S/m; $\epsilon_r = 36.974$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5210 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.504 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.367 V/m; Power Drift = 0.06 dB

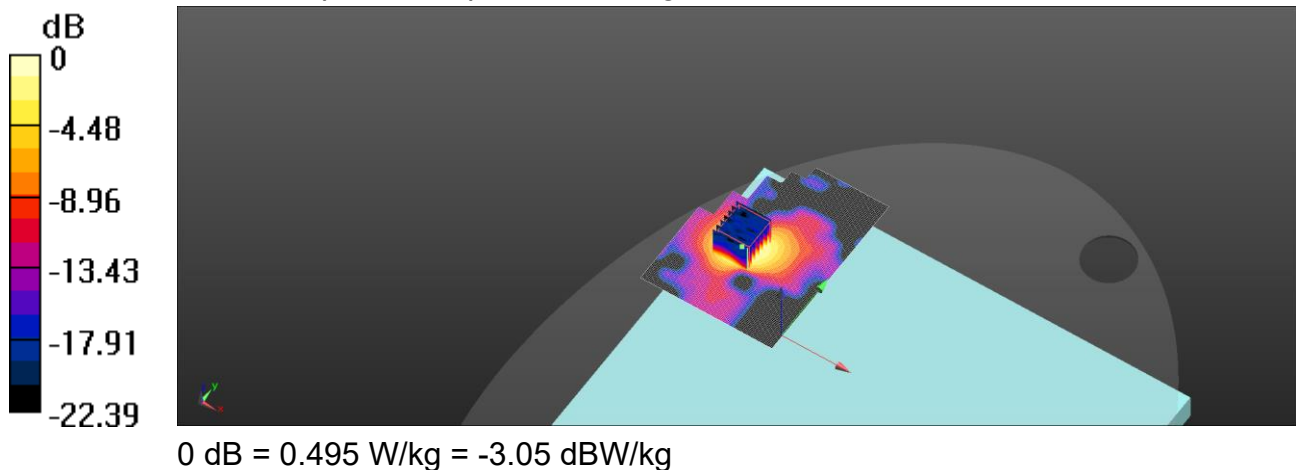
Peak SAR (extrapolated) = 0.823 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.082 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 0.495 W/kg



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Date: 2025/8/5

ID: 010

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.905$ S/m; $\epsilon_r = 36.883$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5290 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.482 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.215 V/m; Power Drift = 0.09 dB

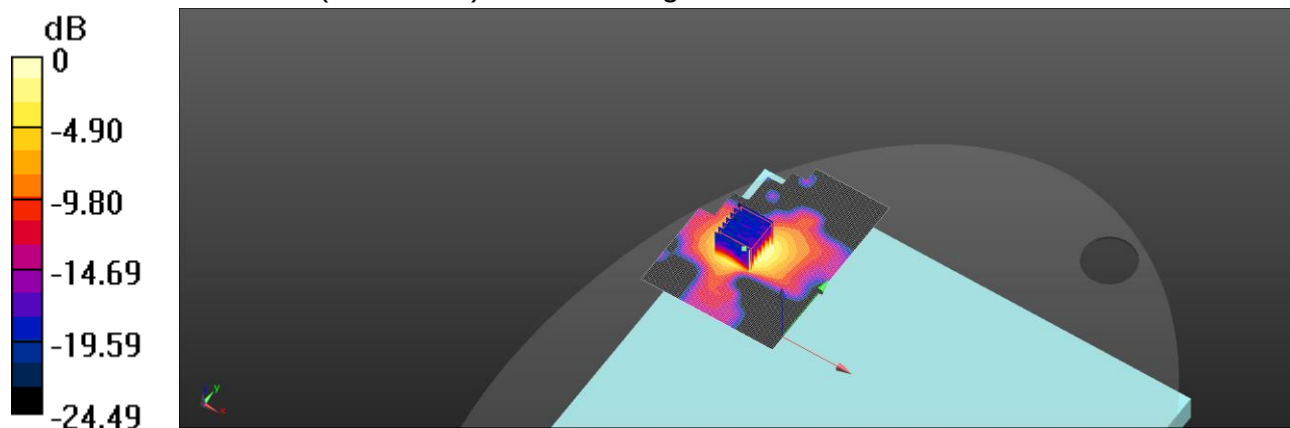
Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.081 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 0.490 W/kg



0 dB = 0.490 W/kg = -3.10 dBW/kg

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Date: 2025/8/6

ID: 011

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.201$ S/m; $\epsilon_r = 36.563$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.16, 4.86, 4.84) @ 5570 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.635 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.157 V/m; Power Drift = 0.06 dB

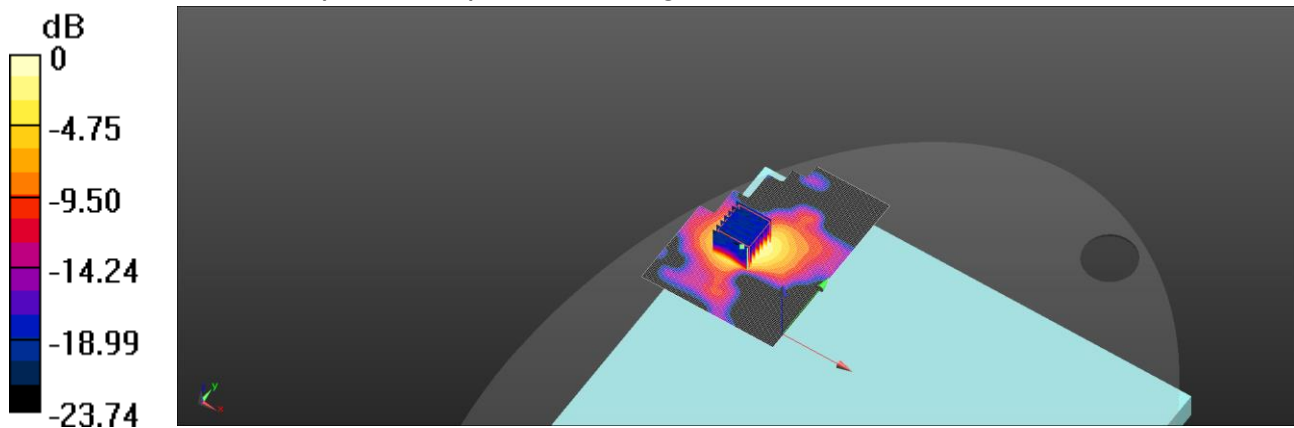
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.100 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 0.640 W/kg



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Date: 2025/8/8

ID: 013

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.9G_Body_Bottom Surface_CH 163_0mm_Aux

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 34.019$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.07, 4.77, 4.75) @ 5815 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.349 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.397 V/m; Power Drift = 0.16 dB

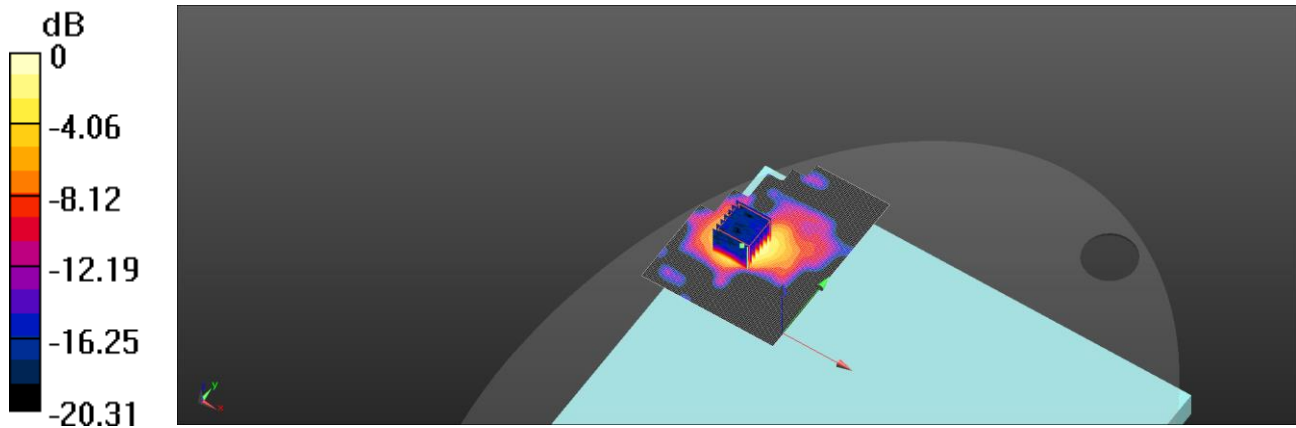
Peak SAR (extrapolated) = 0.643 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.056 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.350 W/kg



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Date: 2025/8/4

ID: 014

Report No. :TESA2507000573EN

WLAN 802.11b_Body_Front Edge of Keyboard_CH 1_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.039

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 40.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2412 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.785 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.999 V/m; Power Drift = -0.18 dB

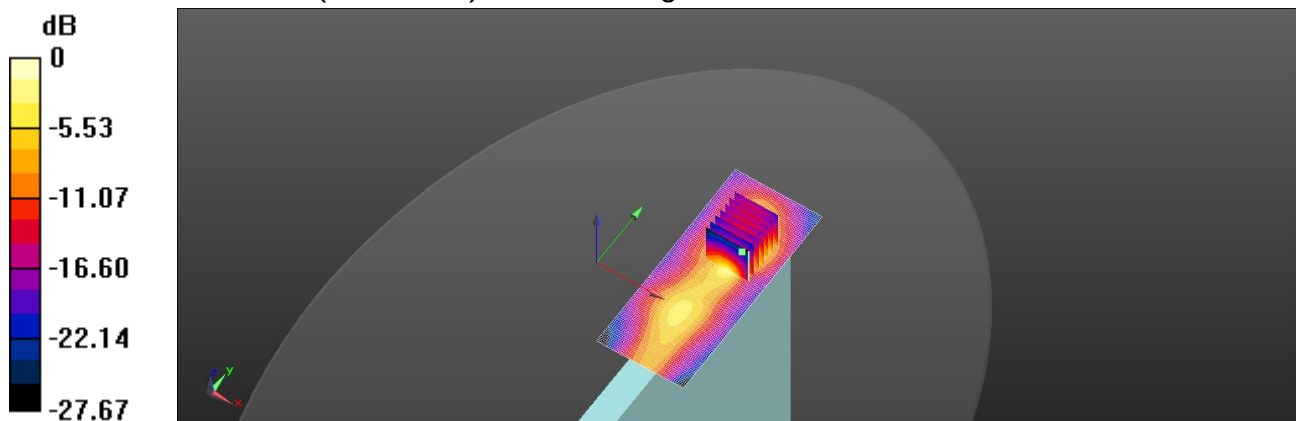
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.211 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 0.829 W/kg



0 dB = 0.829 W/kg = -0.81 dBW/kg

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Date: 2025/8/5

ID: 015

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.2G_Body_Front Edge of Keyboard_CH 42_0mm_Main

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.821 \text{ S/m}$; $\epsilon_r = 36.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5210 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.43 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.087 V/m; Power Drift = 0.07 dB

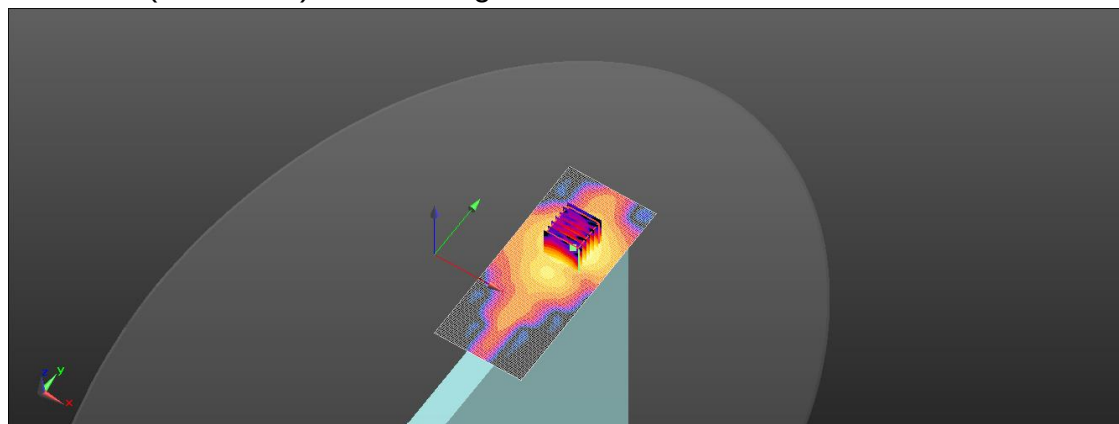
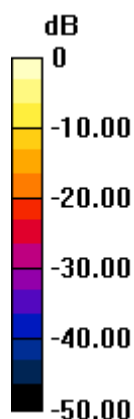
Peak SAR (extrapolated) = 4.49 W/kg

SAR(1 g) = 0.997 W/kg; SAR(10 g) = 0.271 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 2.50 W/kg



0 dB = 2.50 W/kg = 3.98 dBW/kg

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Date: 2025/8/5

ID: 016

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.3G_Body_Front Edge of Keyboard_CH 58_0mm_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.905 \text{ S/m}$; $\epsilon_r = 36.883$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5290 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.73 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.154 V/m; Power Drift = 0.08 dB

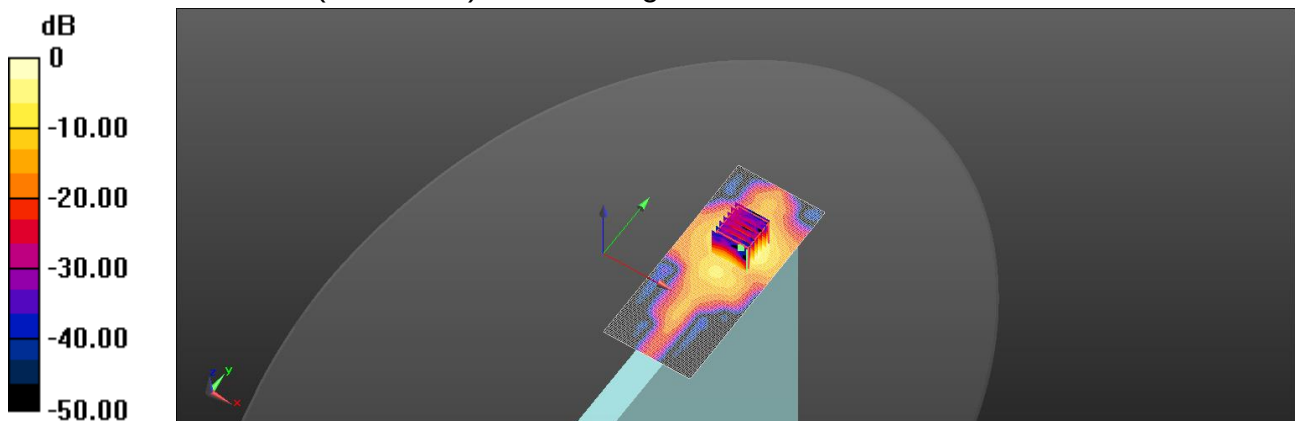
Peak SAR (extrapolated) = 5.01 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 2.84 W/kg



0 dB = 2.84 W/kg = 4.53 dBW/kg

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Date: 2025/8/6

ID: 017

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.6G_Body_Front Edge of Keyboard_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.201$ S/m; $\epsilon_r = 36.563$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.16, 4.86, 4.84) @ 5570 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.40 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.422 V/m; Power Drift = 0.10 dB

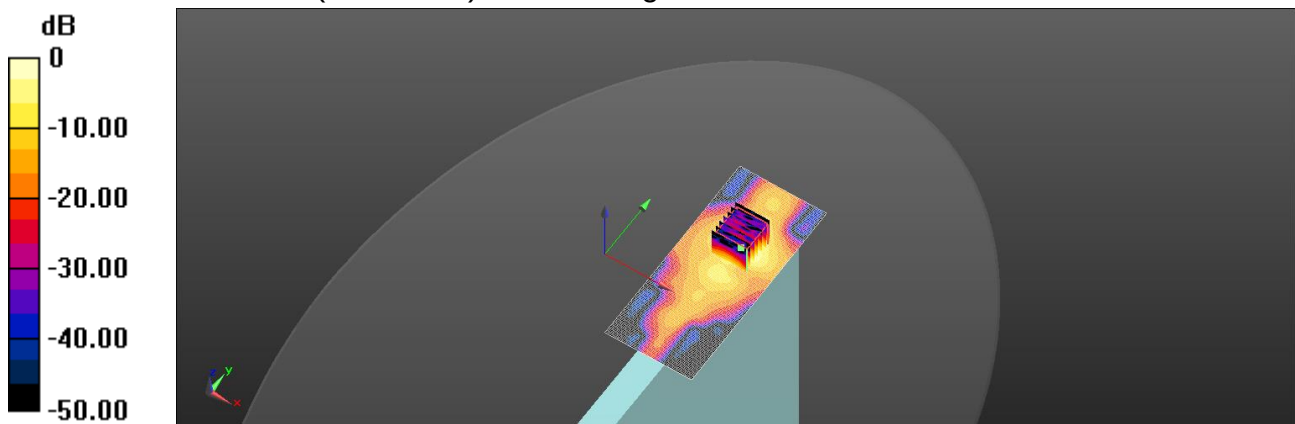
Peak SAR (extrapolated) = 4.81 W/kg

SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.248 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 2.41 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

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Date: 2025/8/8

ID: 019

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.9G_Body_Front Edge of Keyboard_CH 163_0mm_Main

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 34.019$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.07, 4.77, 4.75) @ 5815 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.08 V/m; Power Drift = 0.15 dB

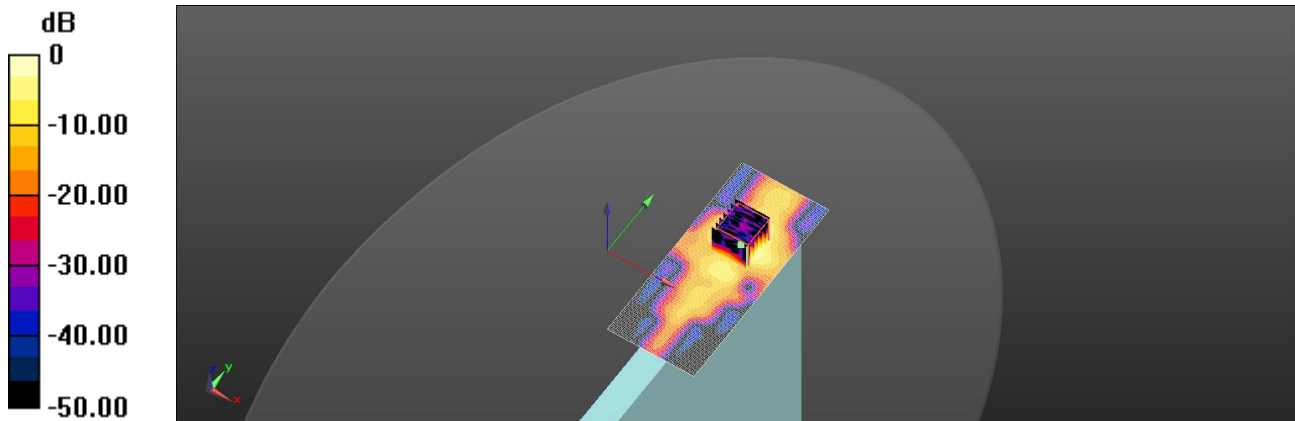
Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 0.473 W/kg; SAR(10 g) = 0.122 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2025/8/4

ID: 020

Report No. :TESA2507000573EN

WLAN 802.11b_Body_Front Edge of Keyboard_CH 6_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.039

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.872$ S/m; $\epsilon_r = 40.223$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2437 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.515 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.149 V/m; Power Drift = 0.11 dB

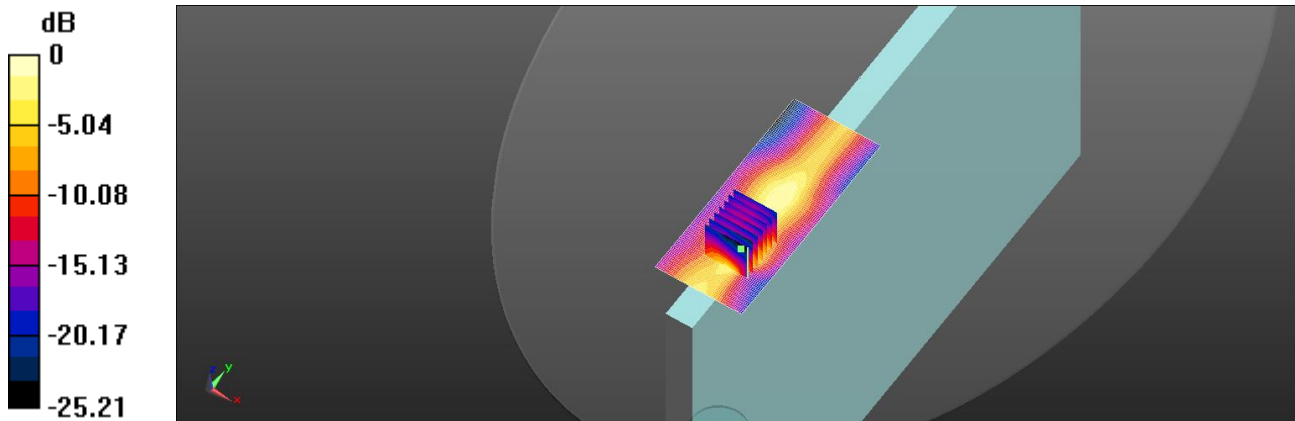
Peak SAR (extrapolated) = 0.608 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.121 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.486 W/kg



0 dB = 0.486 W/kg = -3.13 dBW/kg

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Date: 2025/8/4

ID: 021

Report No. :TESA2507000573EN

Bluetooth(GFSK)_Body_Front Edge of Keyboard_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.318

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.876 \text{ S/m}$; $\epsilon_r = 40.216$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2441 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.439 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.824 V/m; Power Drift = 0.18 dB

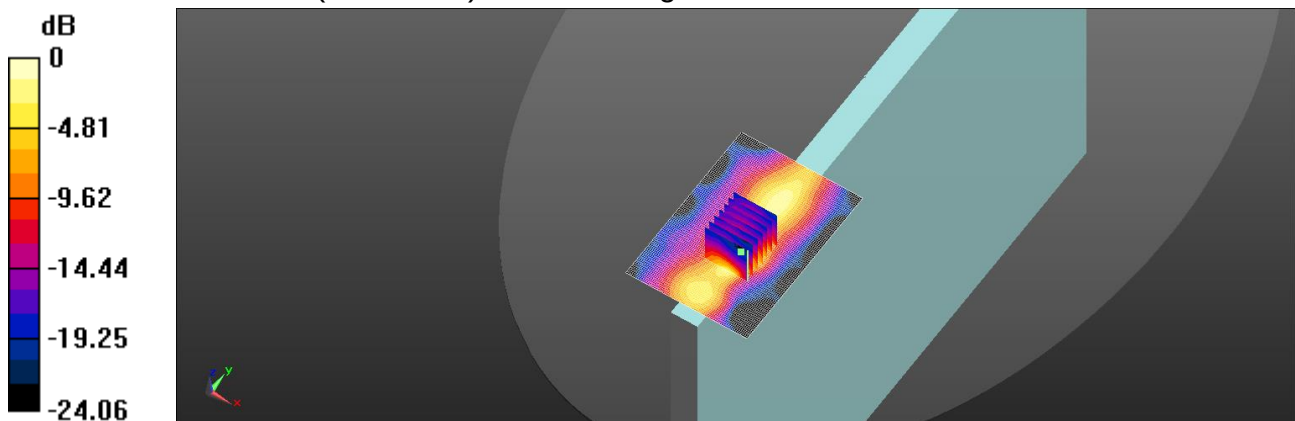
Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.103 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 42.9%

Maximum value of SAR (measured) = 0.421 W/kg



0 dB = 0.421 W/kg = -3.76 dBW/kg

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Date: 2025/8/5

ID: 022

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.2G_Body_Front Edge of Keyboard_CH 42_0mm_Aux

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.821 \text{ S/m}$; $\epsilon_r = 36.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5210 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.485 V/m; Power Drift = 0.09 dB

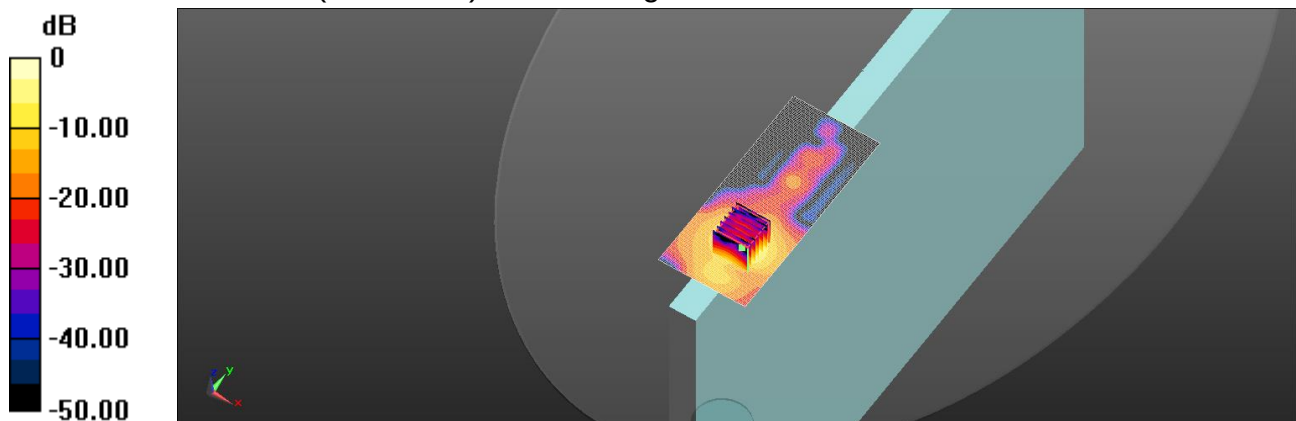
Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.217 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg = 3.28 dBW/kg

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Date: 2025/8/5

ID: 023

Report No. :TESA2507000573EN

WLAN 802.11ac(80M) 5.3G_Body_Front Edge of Keyboard_CH 58_0mm_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.044

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.905 \text{ S/m}$; $\epsilon_r = 36.883$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5290 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.02 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.345 V/m; Power Drift = 0.05 dB

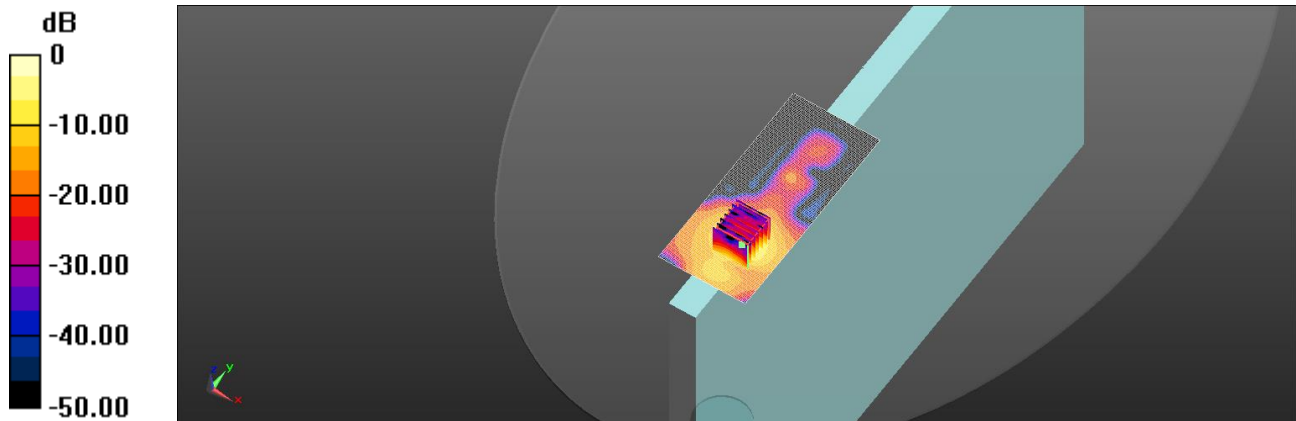
Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 0.823 W/kg; SAR(10 g) = 0.218 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg = 3.28 dBW/kg

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Date: 2025/8/6

ID: 024

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.6G_Body_Front Edge of Keyboard_CH 114_0mm_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.201$ S/m; $\epsilon_r = 36.563$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.16, 4.86, 4.84) @ 5570 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: EL
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.44 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.22 V/m; Power Drift = -0.03 dB

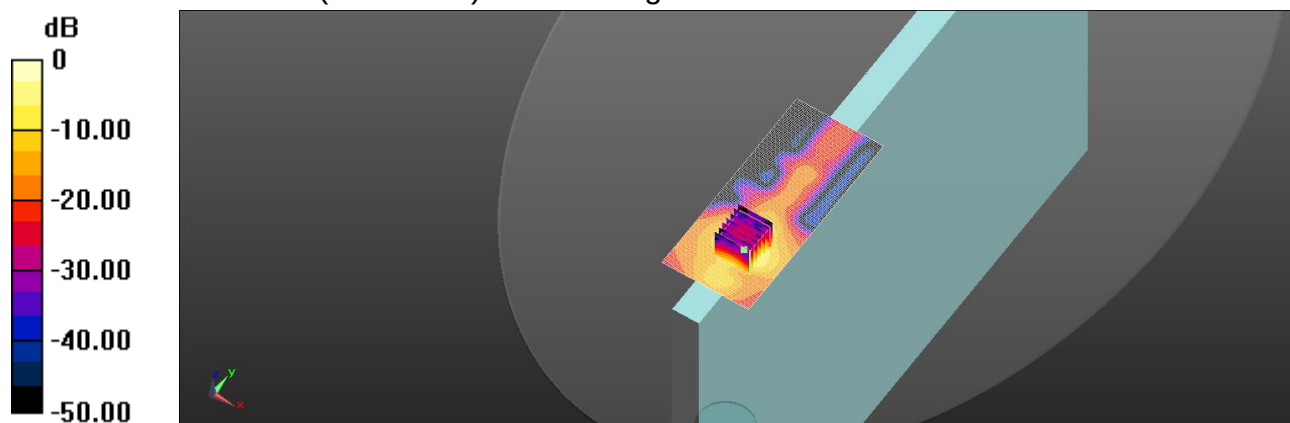
Peak SAR (extrapolated) = 5.10 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.279 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 2.63 W/kg



0 dB = 2.63 W/kg = 4.20 dBW/kg

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Date: 2025/8/8

ID: 026

Report No. :TESA2507000573EN

WLAN 802.11ac(160M) 5.9G_Body_Front Edge of Keyboard_CH 163_0mm_Aux

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.107

Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 34.019$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.07, 4.77, 4.75) @ 5815 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.26 V/m; Power Drift = -0.11 dB

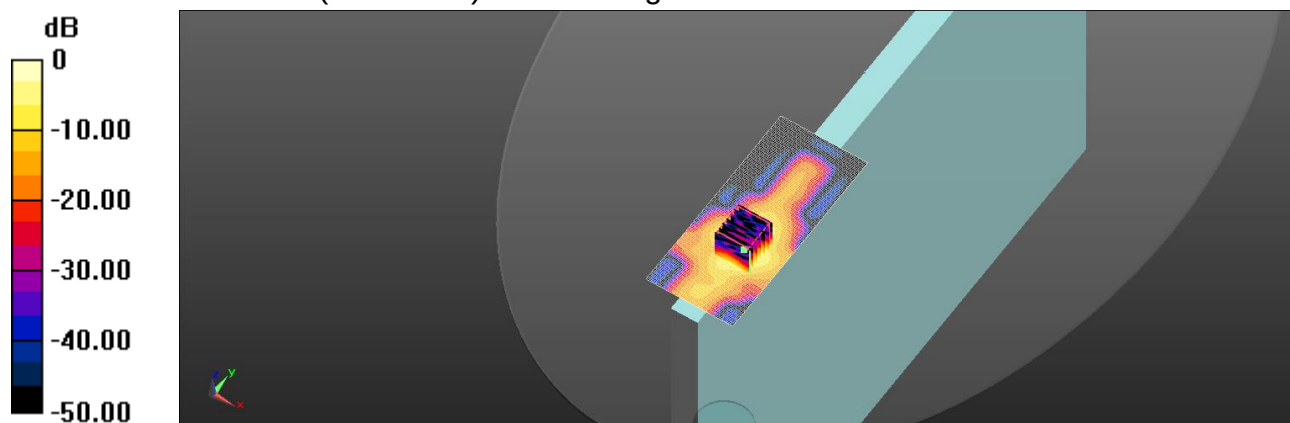
Peak SAR (extrapolated) = 2.97 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.138 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 46.6%

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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ID: 027

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6025.000, 15	5.34	5.445	34.545

Hardware Setup

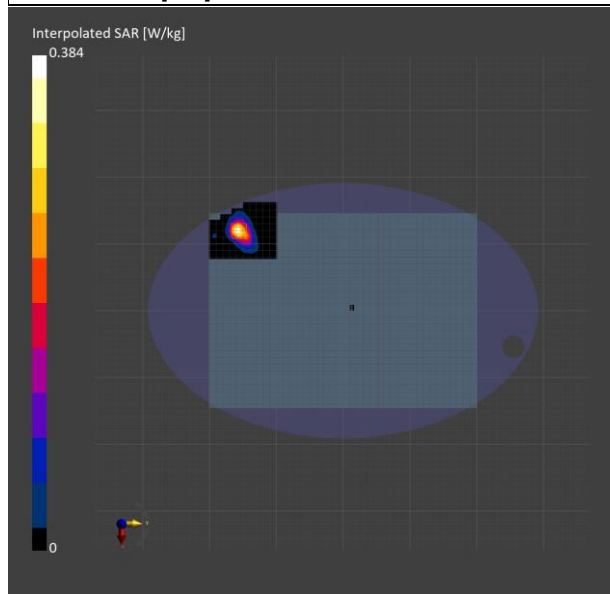
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.275	0.286
psSAR8g [W/kg]	0.112	0.115
psSAR10g [W/kg]	0.101	0.102
psPDab (4.0cm2, sq) [W/m2]		2.30
Power Drift [dB]	-0.01	-0.05
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		8.5



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Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 47_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6185.000, 47	5.34	5.607	34.337

Hardware Setup

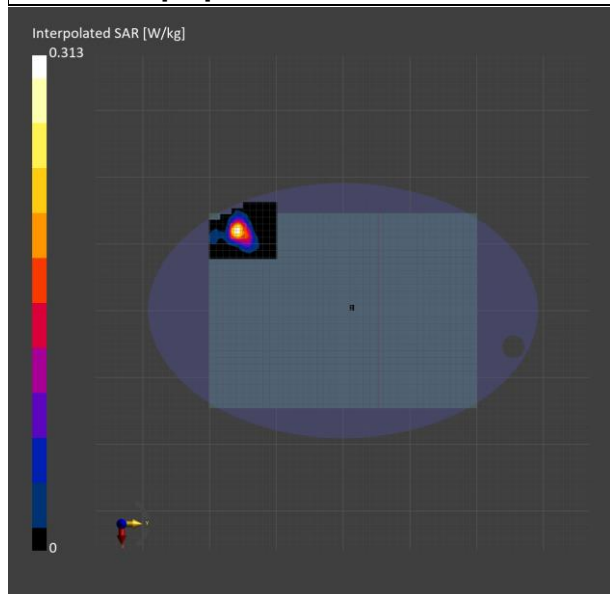
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.228	0.239
psSAR8g [W/kg]	0.091	0.093
psSAR10g [W/kg]	0.082	0.082
psPDab (4.0cm2, sq) [W/m2]		1.85
Power Drift [dB]	0.02	0.07
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		7.5



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ID: 029

Report No. :TESA2507000573EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6505.000, 111	5.34	5.928	33.949

Hardware Setup

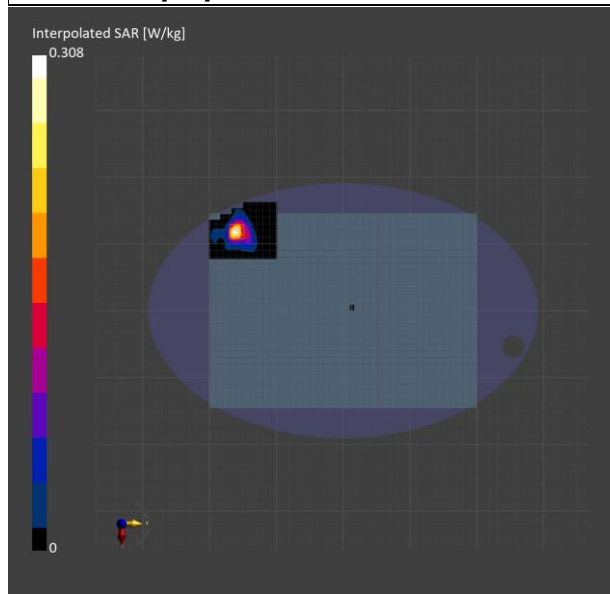
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.240	0.254
psSAR8g [W/kg]	0.093	0.092
psSAR10g [W/kg]	0.082	0.081
psPDab (4.0cm2, sq) [W/m2]		1.84
Power Drift [dB]	-0.06	0.04
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.1



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ID: 030

Report No. :TESA2507000573EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 143_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6665.000, 143	5.34	6.086	33.757

Hardware Setup

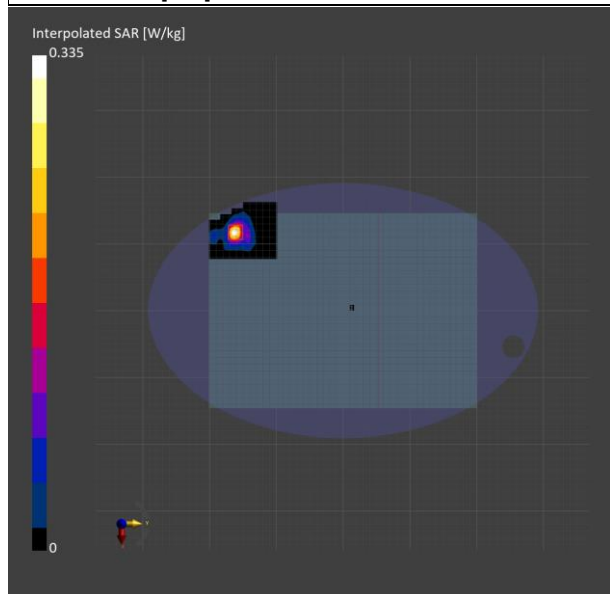
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.268	0.277
psSAR8g [W/kg]	0.10	0.099
psSAR10g [W/kg]	0.087	0.086
psPDab (4.0cm2, sq) [W/m2]		1.98
Power Drift [dB]	-0.03	0.13
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		7.0



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ID: 031

Report No. :TESA2507000573EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Main

Ambient temperature: 21.8°C; Liquid temperature: 21.7°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	6985.000, 207	5.65	6.423	32.595

Hardware Setup

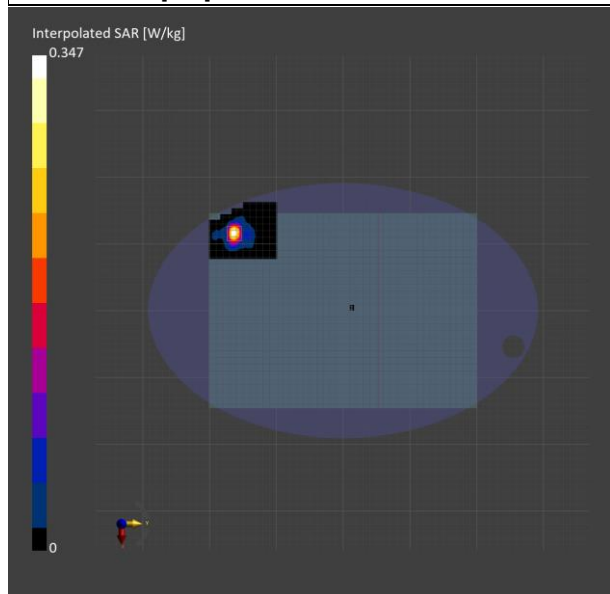
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.287	0.291
psSAR8g [W/kg]	0.103	0.101
psSAR10g [W/kg]	0.089	0.087
psPDab (4.0cm2, sq) [W/m2]		2.01
Power Drift [dB]	-0.11	-0.13
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		7.5



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ID: 032

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6025.000, 15	5.34	5.445	34.545

Hardware Setup

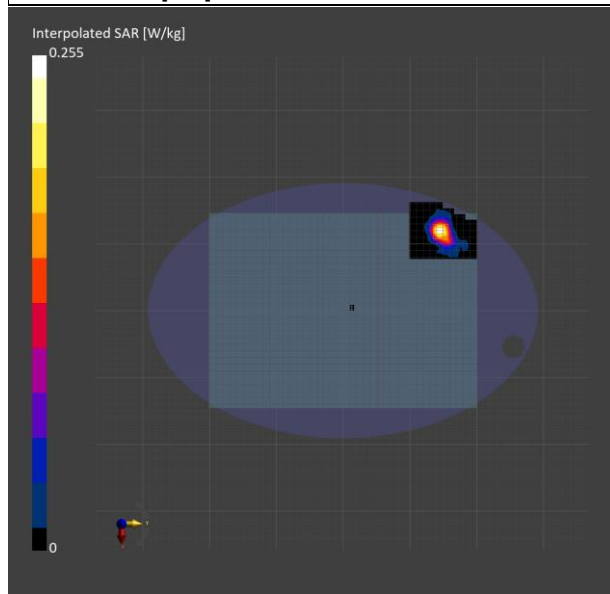
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.189	0.198
psSAR8g [W/kg]	0.079	0.083
psSAR10g [W/kg]	0.070	0.074
psPDab (4.0cm2, sq) [W/m2]		1.65
Power Drift [dB]	-0.08	-0.11
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		9.2



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ID: 033

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 79_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6345.000, 79	5.34	5.769	34.139

Hardware Setup

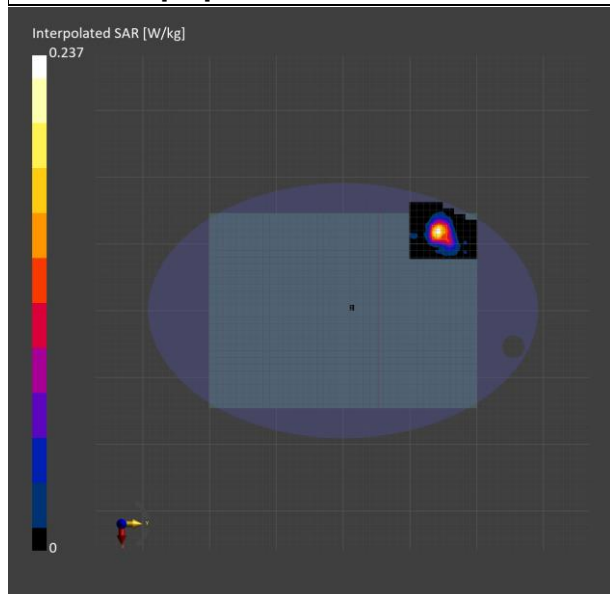
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.174	0.185
psSAR8g [W/kg]	0.070	0.074
psSAR10g [W/kg]	0.063	0.066
psPDab (4.0cm2, sq) [W/m2]		1.48
Power Drift [dB]	0.05	0.11
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		8.0



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ID: 034

Report No. :TESA2507000573EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6505.000, 111	5.34	5.928	33.949

Hardware Setup

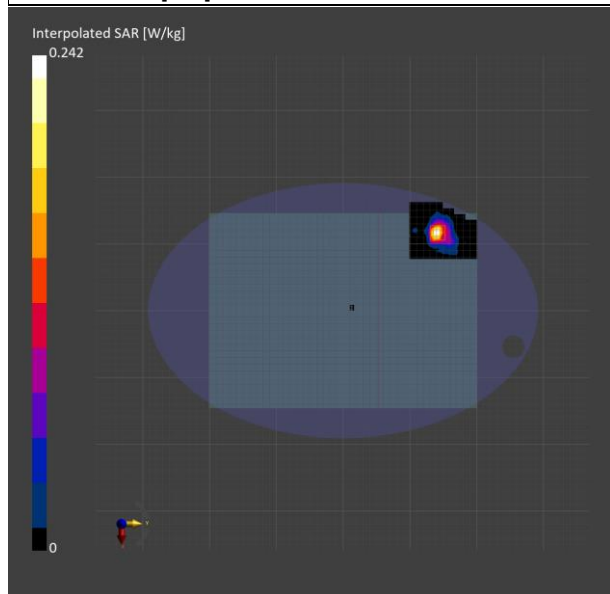
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.185	0.203
psSAR8g [W/kg]	0.072	0.075
psSAR10g [W/kg]	0.064	0.066
psPDab (4.0cm2, sq) [W/m2]		1.51
Power Drift [dB]	0.05	-0.08
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		7.1



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ID: 035

Report No. :TESA2507000573EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 175_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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	6825.000, 175	5.34	6.244	33.555

Hardware Setup

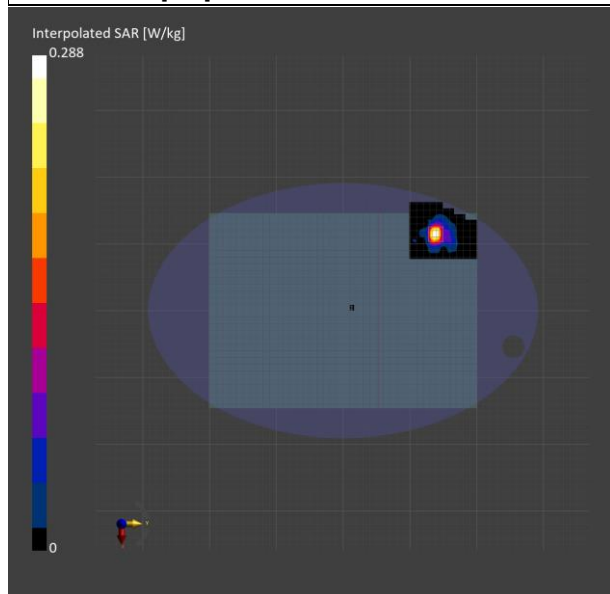
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.236	0.262
psSAR8g [W/kg]	0.088	0.090
psSAR10g [W/kg]	0.077	0.078
psPDab (4.0cm2, sq) [W/m2]		1.80
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		7.1



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ID: 036

Report No. :TESA2507000573EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Aux

Ambient temperature: 21.8°C; Liquid temperature: 21.7°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	6985.000, 207	5.65	6.423	32.595

Hardware Setup

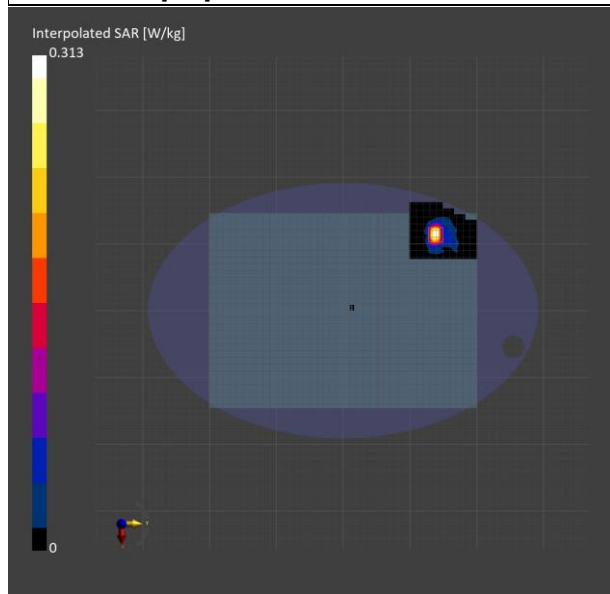
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.260	0.294
psSAR8g [W/kg]	0.096	0.100
psSAR10g [W/kg]	0.084	0.086
psPDab (4.0cm2, sq) [W/m2]		2.00
Power Drift [dB]	0.16	-0.18
M2/M1 [%]		47.6
Dist 3dB Peak [mm]		7.4



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ID: 037

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 15_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6025.000, 15	5.34	5.445	34.545

Hardware Setup

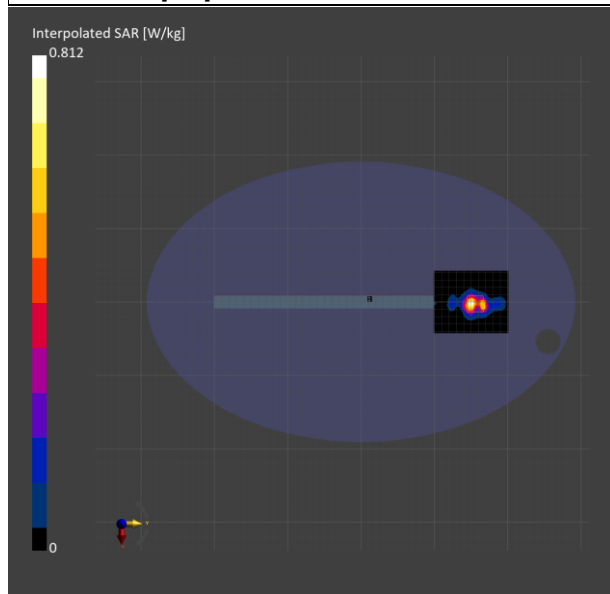
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.544	0.569
psSAR8g [W/kg]	0.198	0.203
psSAR10g [W/kg]	0.179	0.183
psPDab (4.0cm2, sq) [W/m2]		4.06
Power Drift [dB]	0.06	0.04
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		6.5



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ID: 038

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 47_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6185.000, 47	5.34	5.607	34.337

Hardware Setup

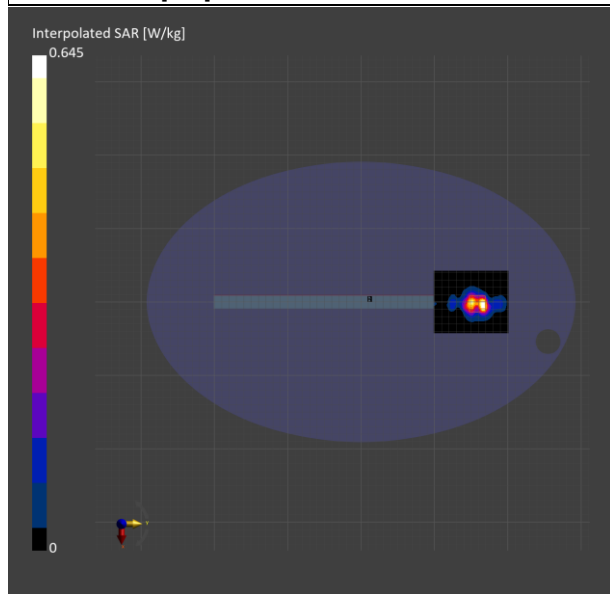
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.446	0.534
psSAR8g [W/kg]	0.170	0.172
psSAR10g [W/kg]	0.154	0.155
psPDab (4.0cm2, sq) [W/m2]		3.43
Power Drift [dB]	-0.08	-0.16
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		5.7



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ID: 039

Report No. :TESA2507000573EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 111_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6505.000, 111	5.34	5.928	33.949

Hardware Setup

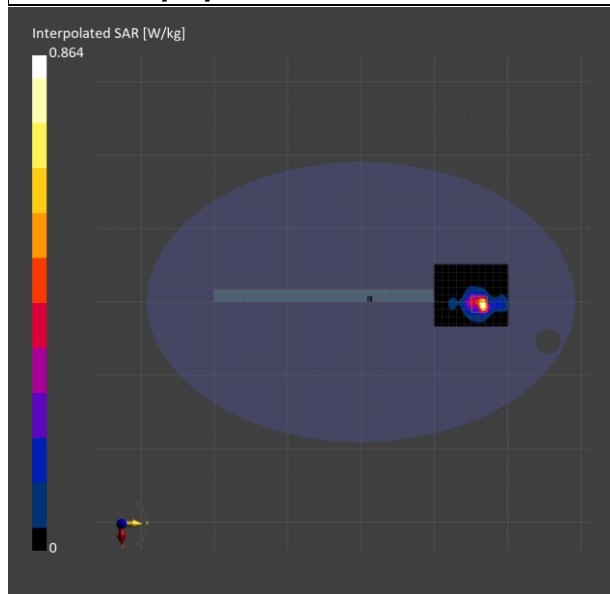
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.595	0.654
psSAR8g [W/kg]	0.203	0.201
psSAR10g [W/kg]	0.179	0.174
psPDab (4.0cm2, sq) [W/m2]		4.01
Power Drift [dB]	-0.06	0.01
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		5.8



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ID: 040

Report No. :TESA2507000573EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 143_0mm_Main

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6665.000, 143	5.34	6.086	33.757

Hardware Setup

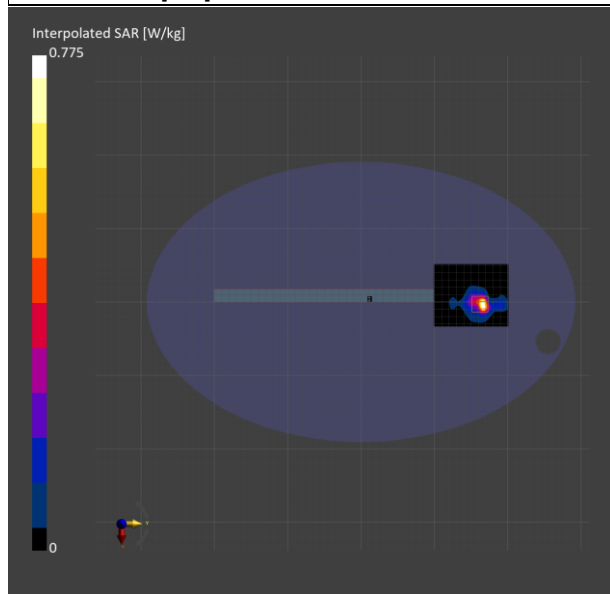
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.548	0.577
psSAR8g [W/kg]	0.184	0.178
psSAR10g [W/kg]	0.161	0.154
psPDab (4.0cm2, sq) [W/m2]		3.57
Power Drift [dB]	0.11	-0.05
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		5.8



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ID: 041

Report No. :TESA2507000573EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 207_0mm_Main

Ambient temperature: 21.8°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6985.000, 207	5.65	6.423	32.595

Hardware Setup

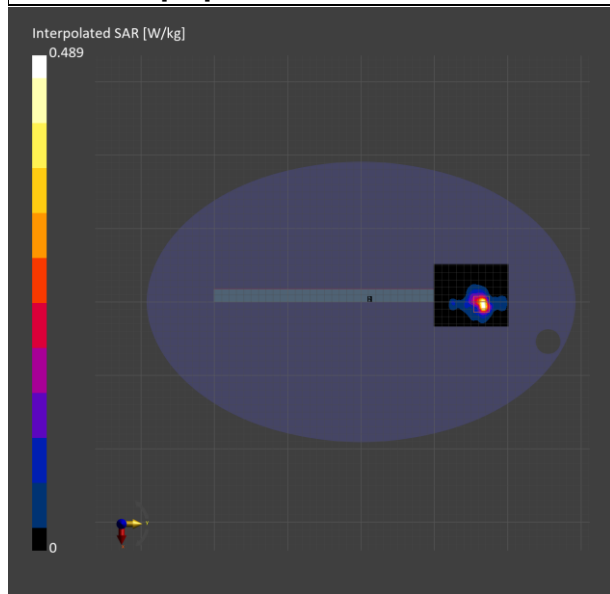
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.366	0.386
psSAR8g [W/kg]	0.121	0.120
psSAR10g [W/kg]	0.106	0.104
psPDab (4.0cm2, sq) [W/m2]		2.41
Power Drift [dB]	0.04	0.06
M2/M1 [%]		46.8
Dist 3dB Peak [mm]		5.8



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ID: 042

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 15_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6025.000, 15	5.34	5.445	34.545

Hardware Setup

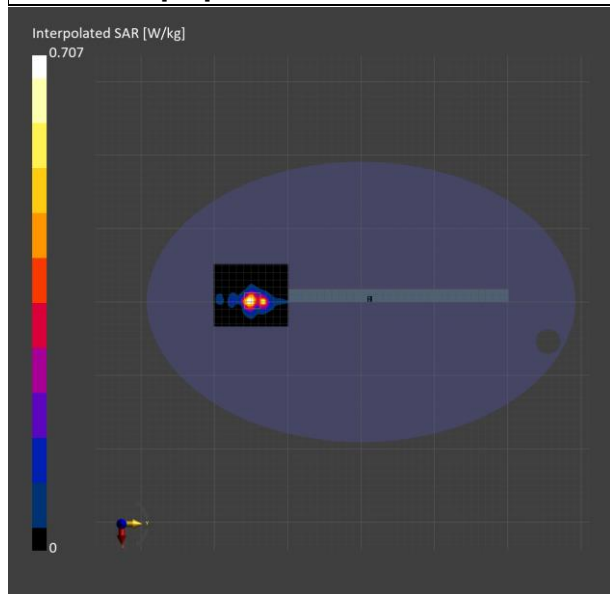
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.489	0.562
psSAR8g [W/kg]	0.170	0.193
psSAR10g [W/kg]	0.149	0.173
psPDab (4.0cm2, sq) [W/m2]		3.85
Power Drift [dB]	-0.06	0.03
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		6.1



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ID: 043

Report No. :TESA2507000573EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 79_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6345.000, 79	5.34	5.769	34.139

Hardware Setup

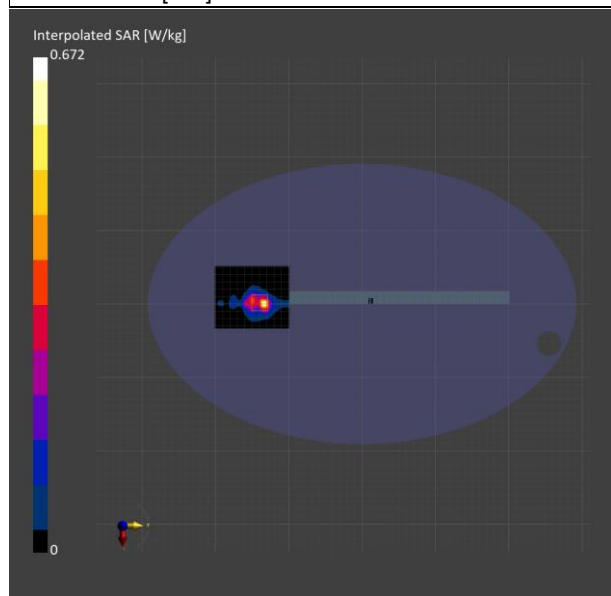
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.409	0.491
psSAR8g [W/kg]	0.140	0.155
psSAR10g [W/kg]	0.126	0.138
psPDab (4.0cm2, sq) [W/m2]		3.11
Power Drift [dB]	-0.13	0.14
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		5.5



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ID: 044

Report No. :TESA2507000573EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 111_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6505.000, 111	5.34	5.928	33.949

Hardware Setup

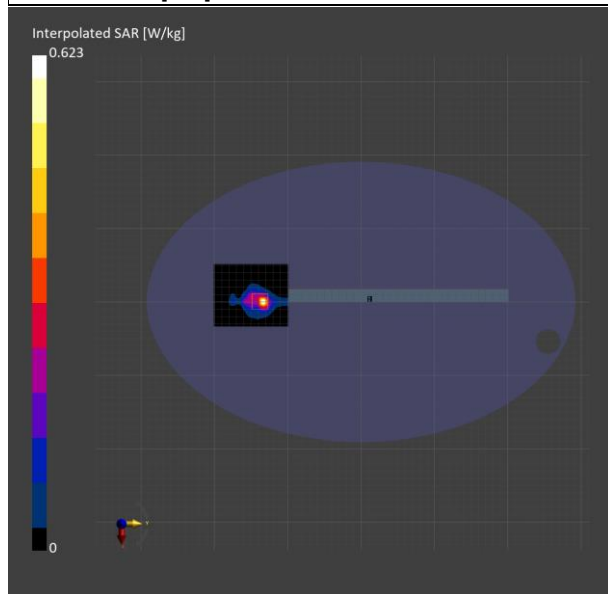
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.384	0.463
psSAR8g [W/kg]	0.127	0.145
psSAR10g [W/kg]	0.112	0.126
psPDab (4.0cm2, sq) [W/m2]		2.90
Power Drift [dB]	-0.02	0.06
M2/M1 [%]		49.8
Dist 3dB Peak [mm]		5.5



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ID: 045

Report No. :TESA2507000573EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 175_0mm_Aux

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6825.000, 175	5.34	6.244	33.555

Hardware Setup

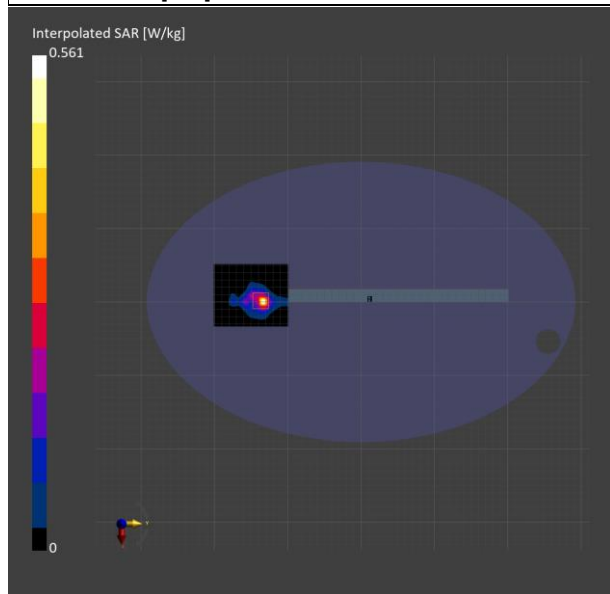
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.362	0.429
psSAR8g [W/kg]	0.119	0.135
psSAR10g [W/kg]	0.105	0.117
psPDab (4.0cm2, sq) [W/m2]		2.70
Power Drift [dB]	-0.01	-0.04
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		5.5



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ID: 046

Report No. :TESA2507000573EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Front Edge of Keyboard_CH 207_0mm_Aux

Ambient temperature: 21.8°C; Liquid temperature: 21.7°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 Edge of Keyboard, 0.00	6985.000, 207	5.65	6.423	32.595

Hardware Setup

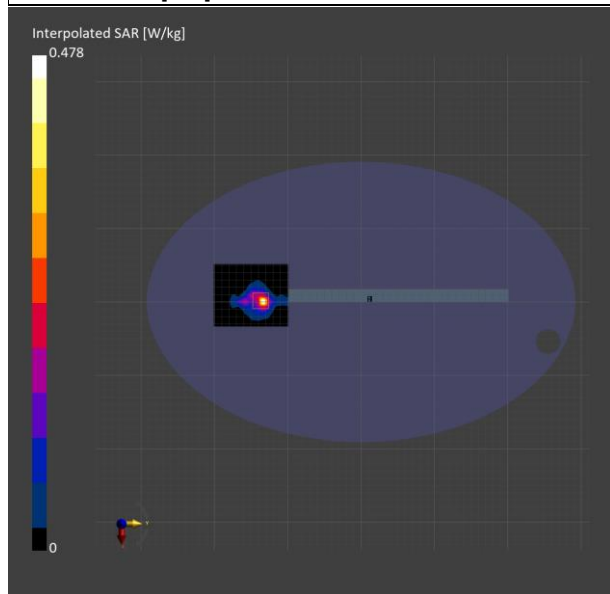
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	0.317	0.373
psSAR8g [W/kg]	0.105	0.119
psSAR10g [W/kg]	0.093	0.104
psPDab (4.0cm2, sq) [W/m2]		2.38
Power Drift [dB]	-0.08	0.09
M2/M1 [%]		46.8
Dist 3dB Peak [mm]		5.7



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13 PD MEASUREMENT RESULTS

ID: 047

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-5, Main

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6025.000, 15	1.0

Hardware Setup

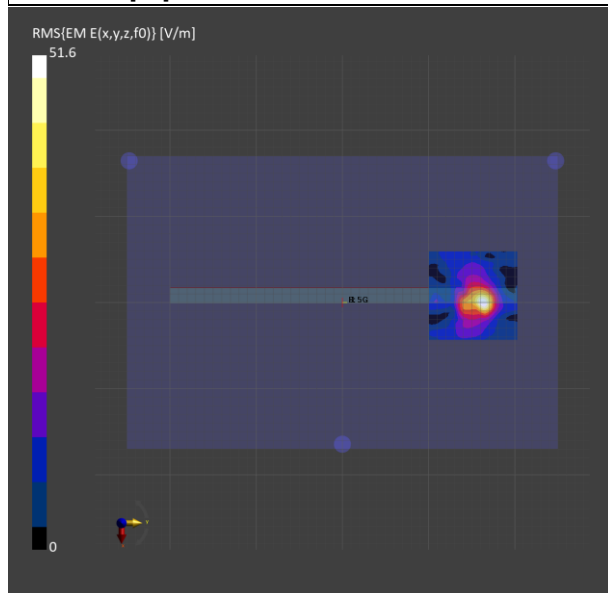
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-11
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	3.89
psPDtot+ [W/m ²]	4.69
psPDmod+ [W/m ²]	4.99
E _{max} [V/m]	51.6
Power Drift [dB]	-0.01



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ID: 048

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-5, Main

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6185.000, 47	1.0

Hardware Setup

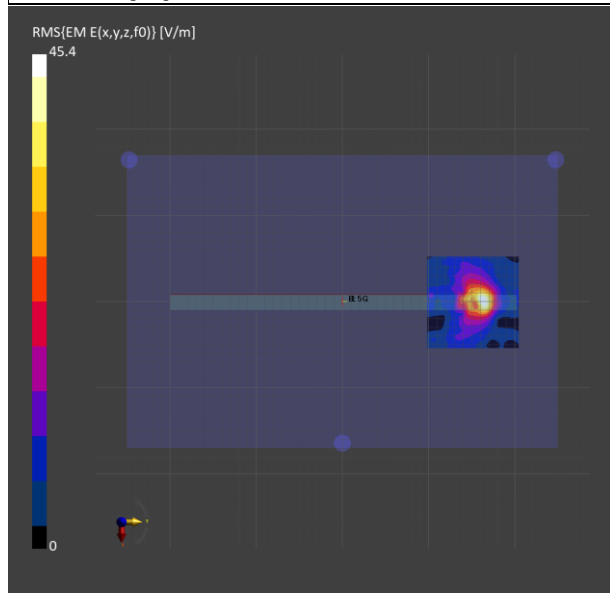
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-11
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	2.74
psPDtot+ [W/m ²]	3.20
psPDmod+ [W/m ²]	3.72
E _{max} [V/m]	45.4
Power Drift [dB]	0.09



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ID: 049

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-6, Main

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6505.000, 111	1.0

Hardware Setup

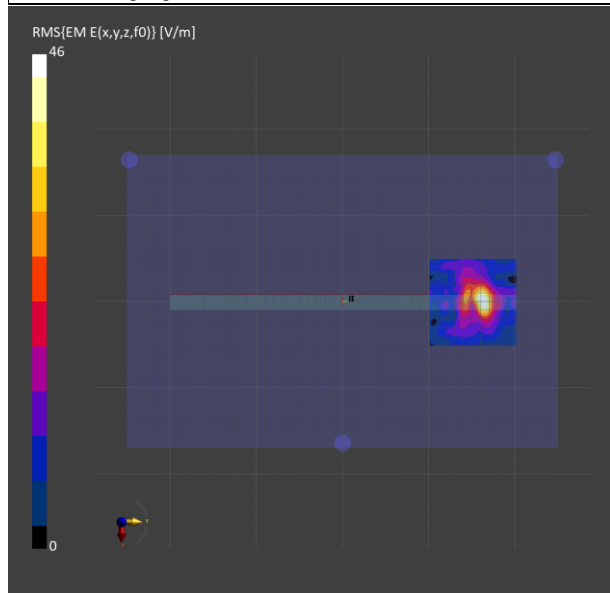
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-11
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	2.32
psPDtot+ [W/m ²]	2.87
psPDmod+ [W/m ²]	3.43
E _{max} [V/m]	46.0
Power Drift [dB]	-0.11



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ID: 050

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-7, Main

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6665.000, 143	1.0

Hardware Setup

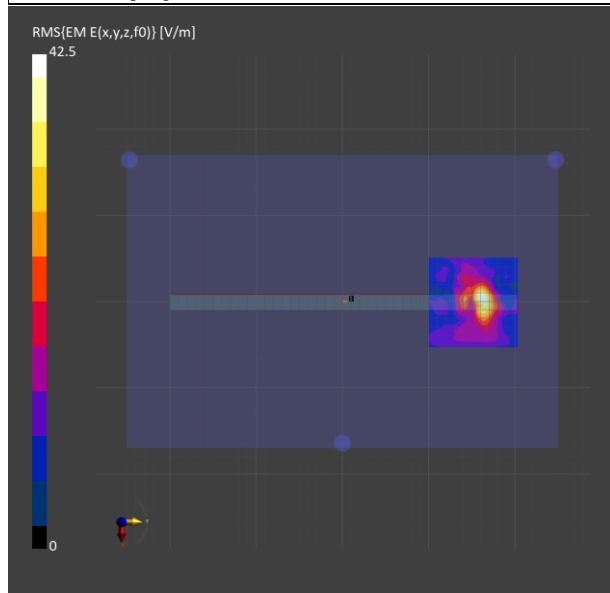
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-11
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	1.63
psPDtot+ [W/m ²]	2.03
psPDmod+ [W/m ²]	2.75
E _{max} [V/m]	42.5
Power Drift [dB]	-0.05



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ID: 051

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-8, Main

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6985.000, 207	1.0

Hardware Setup

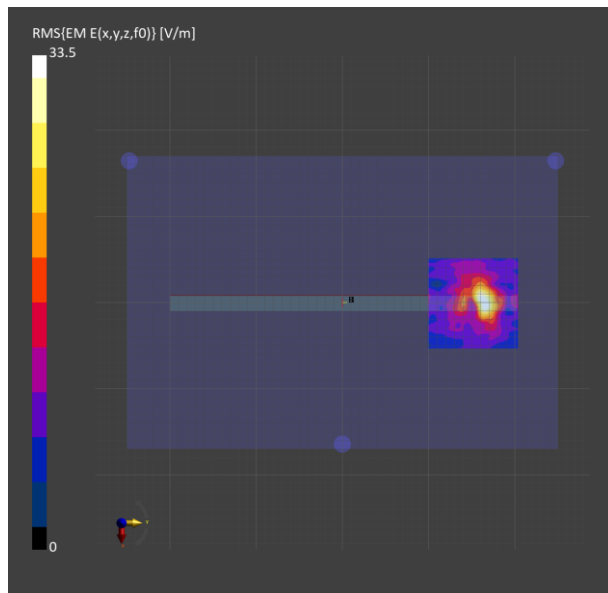
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-11
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	1.56
psPDtot+ [W/m ²]	2.30
psPDmod+ [W/m ²]	2.52
E _{max} [V/m]	33.5
Power Drift [dB]	-0.17



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ID: 052

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-5, Aux

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6025.000, 15	1.0

Hardware Setup

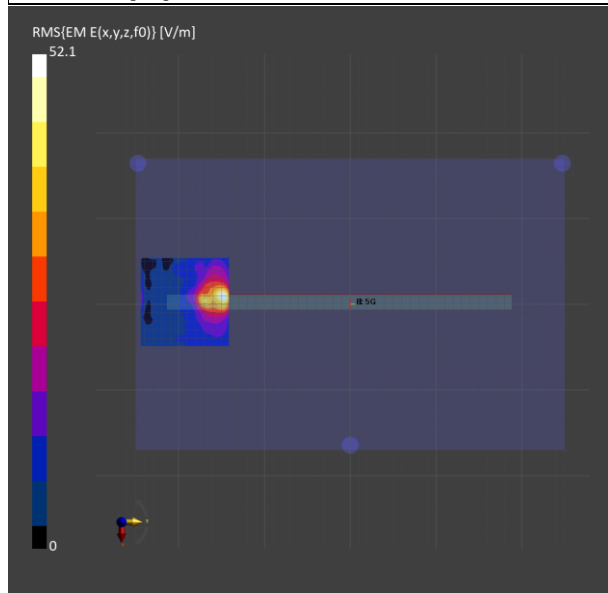
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.19
psPDtot+ [W/m ²]	3.58
psPDmod+ [W/m ²]	3.99
E _{max} [V/m]	52.1
Power Drift [dB]	-0.06



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ID: 053

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-5, Aux

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6345.000, 79	1.0

Hardware Setup

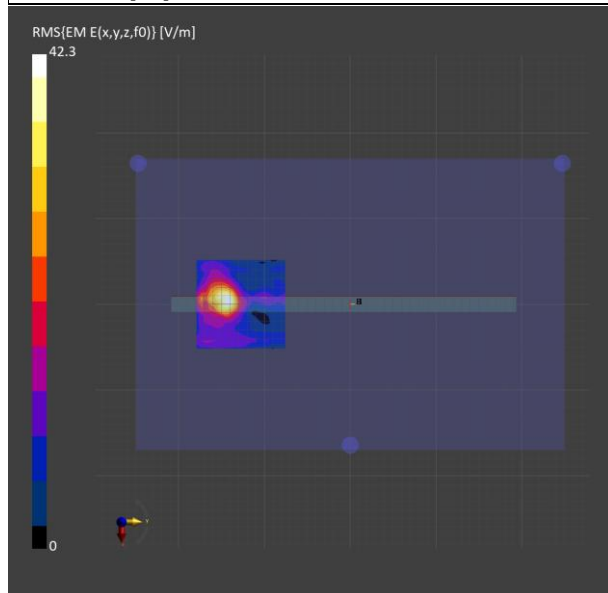
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.96
psPDtot+ [W/m ²]	2.77
psPDmod+ [W/m ²]	3.04
E _{max} [V/m]	42.3
Power Drift [dB]	0.03



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ID: 054

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-6, Aux

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6505.000, 111	1.0

Hardware Setup

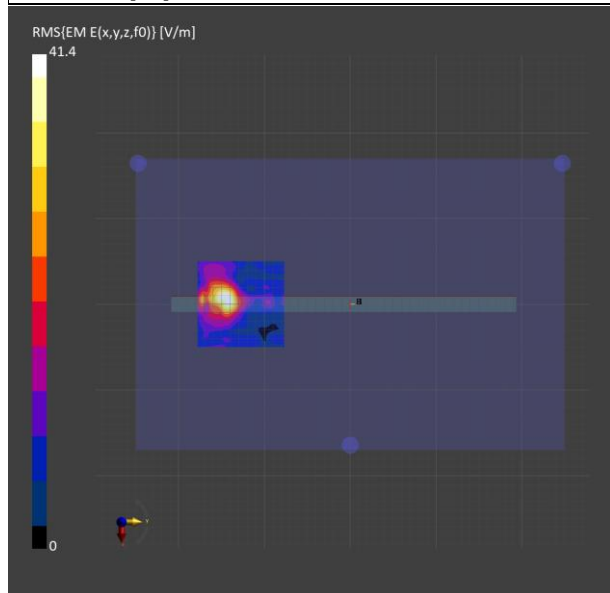
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.92
psPDtot+ [W/m ²]	2.71
psPDmod+ [W/m ²]	3.00
E _{max} [V/m]	41.4
Power Drift [dB]	-0.04



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ID: 055

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-7, Aux

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6825.000, 175	1.0

Hardware Setup

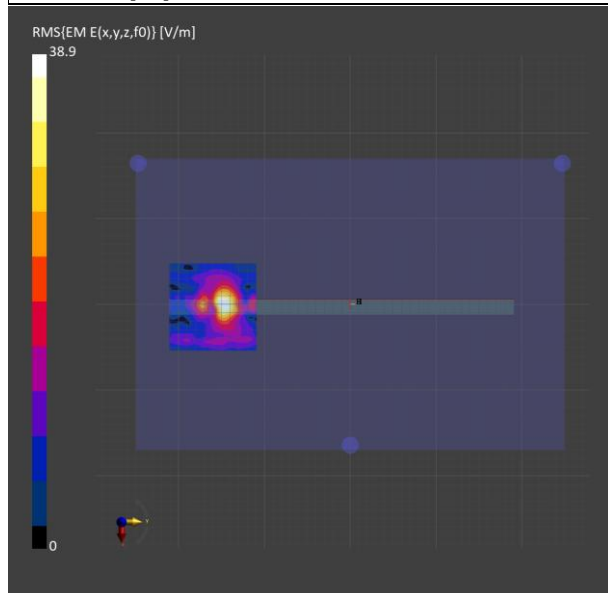
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.38
psPDtot+ [W/m ²]	1.76
psPDmod+ [W/m ²]	2.20
E _{max} [V/m]	38.9
Power Drift [dB]	-0.12



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ID: 056

Report No. :TESA2507000573EN

Measurement Report_Front Edge of Keyboard, U-NII-8, Aux

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Front Edge of Keyboard, 2.00	6985.000, 207	1.0

Hardware Setup

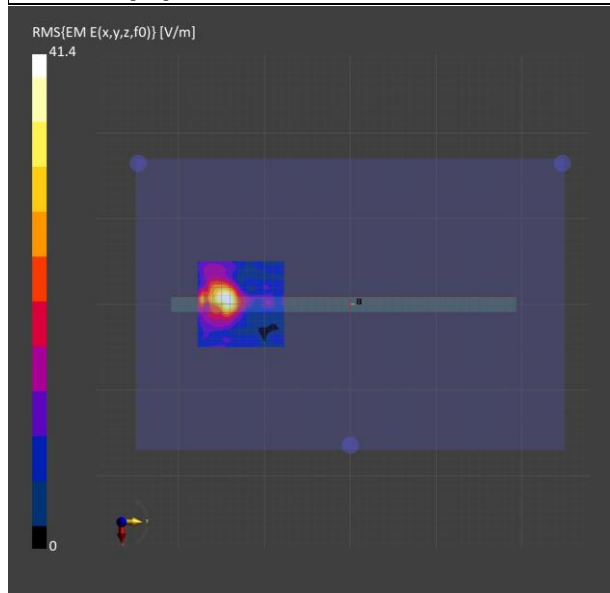
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.36
psPDtot+ [W/m ²]	1.91
psPDmod+ [W/m ²]	2.09
E _{max} [V/m]	36.8
Power Drift [dB]	-0.07



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14 SAR SYSTEM CHECK RESULTS

Date: 2025/8/4

Report No. :TESA2507000573EN

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.884$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2450 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.2 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.1V/m; Power Drift = -0.08 dB

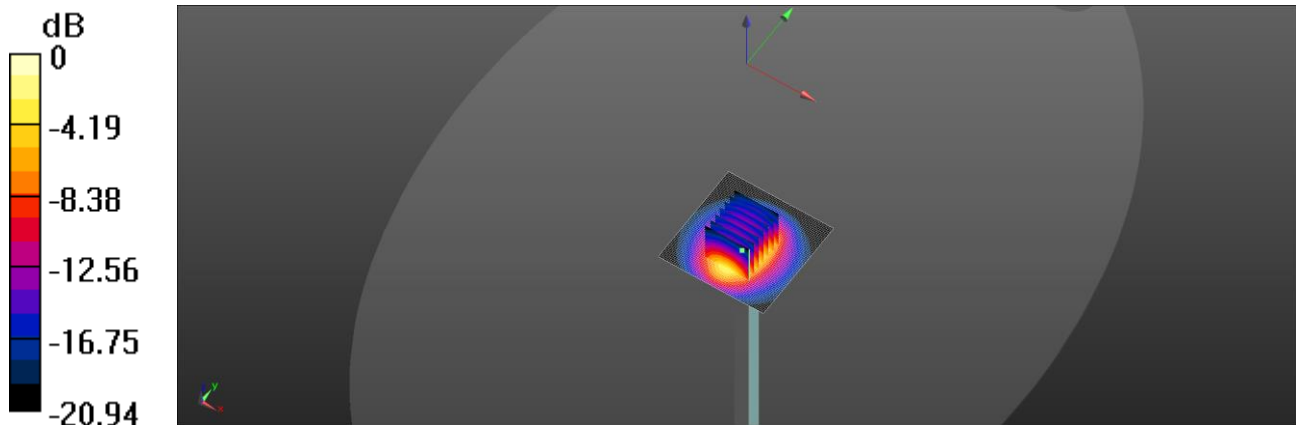
Peak SAR (extrapolated) = 26.6 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.51 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dBW/kg

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Date: 2025/8/5

Report No. :TESA2507000573EN

Dipole 5250 MHz_SN:1349

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.863$ S/m; $\epsilon_r = 36.929$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5250 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 20.8 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.31 V/m; Power Drift = 0.02 dB

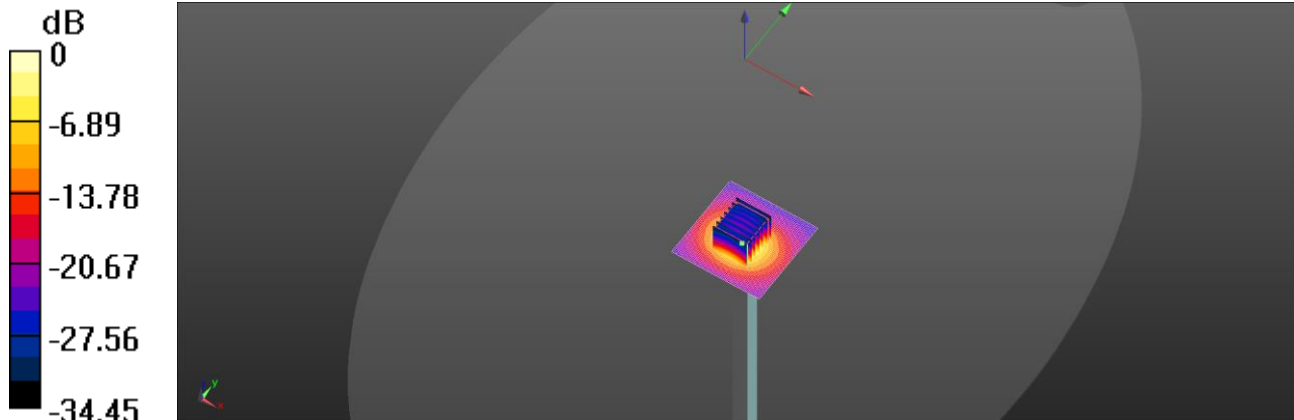
Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.37 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13.24 dBW/kg

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Date: 2025/8/6

Report No. :TESA2507000573EN

Dipole 5600 MHz_SN:1349

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.233$ S/m; $\epsilon_r = 36.529$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.1°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.16, 4.86, 4.84) @ 5600 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 21.2 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.44 V/m; Power Drift = 0.01 dB

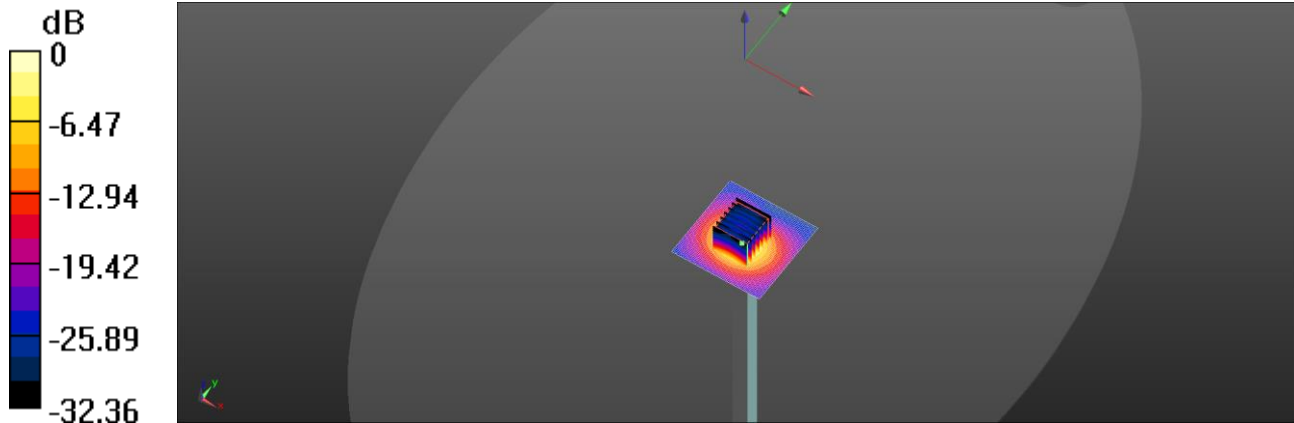
Peak SAR (extrapolated) = 38.2 W/kg

SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13.24 dBW/kg

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Date: 2025/8/7

Report No. :TESA2507000573EN

Dipole 5750 MHz_SN:1349

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 36.357$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23.0°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.15, 4.85, 4.83) @ 5750 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.49 V/m; Power Drift = -0.04 dB

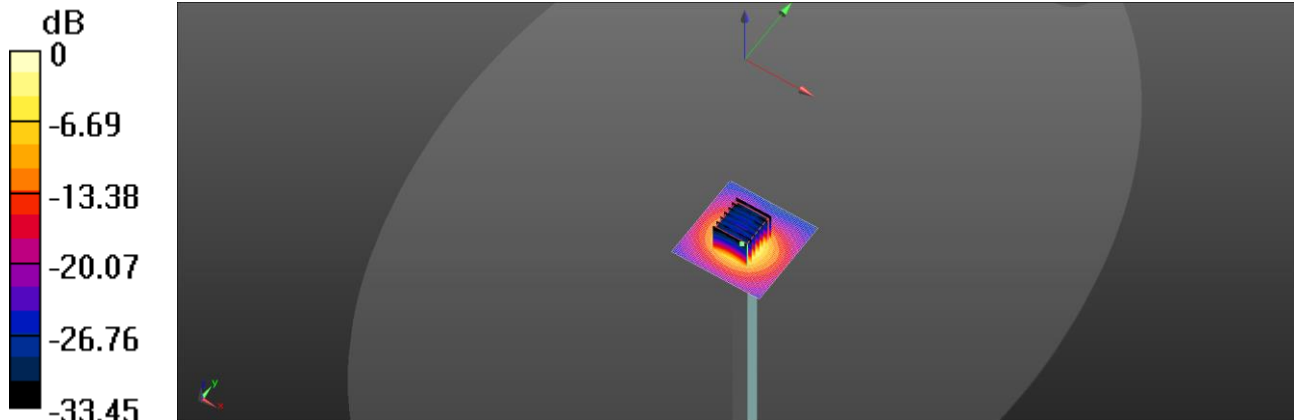
Peak SAR (extrapolated) = 39.9 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 47.2%

Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

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Date: 2025/8/8

Report No. :TESA2507000573EN

Dipole 5850 MHz_SN:1349

Communication System: CW; Frequency: 5850 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5850$ MHz; $\sigma = 5.141$ S/m; $\epsilon_r = 33.985$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.07, 4.77, 4.75) @ 5850 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2024/8/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 20.3 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.67 V/m; Power Drift = -0.03 dB

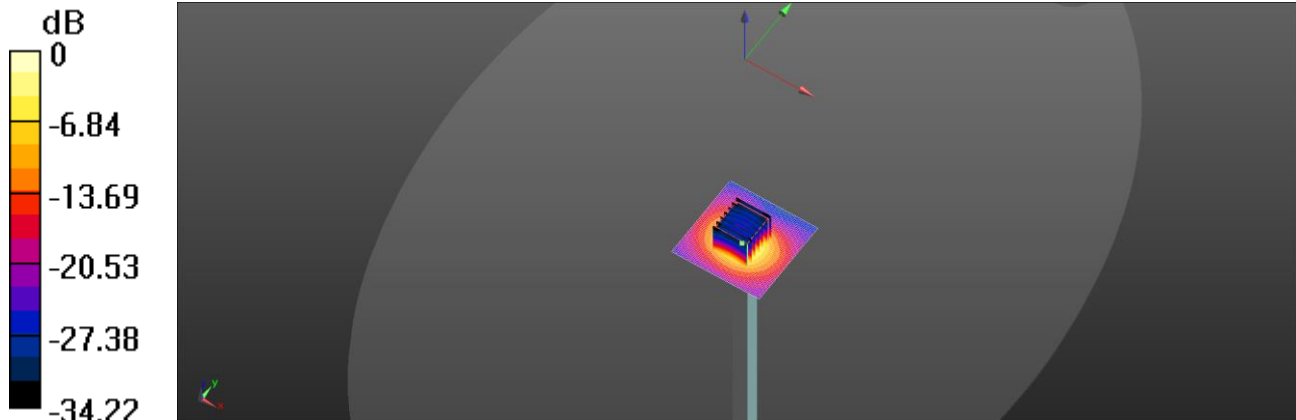
Peak SAR (extrapolated) = 37.9 W/kg

SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.13 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 46.6%

Maximum value of SAR (measured) = 20.2 W/kg



0 dB = 20.2 W/kg = 13.05 dBW/kg

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Report No. :TESA2507000573EN

Measurement Report

Dipole_D6500-SN:1029

Ambient temperature: 21.9°C; Liquid temperature: 21.7°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, 5.00	6500.000, 6500	5.34	5.922	33.961

Hardware Setup

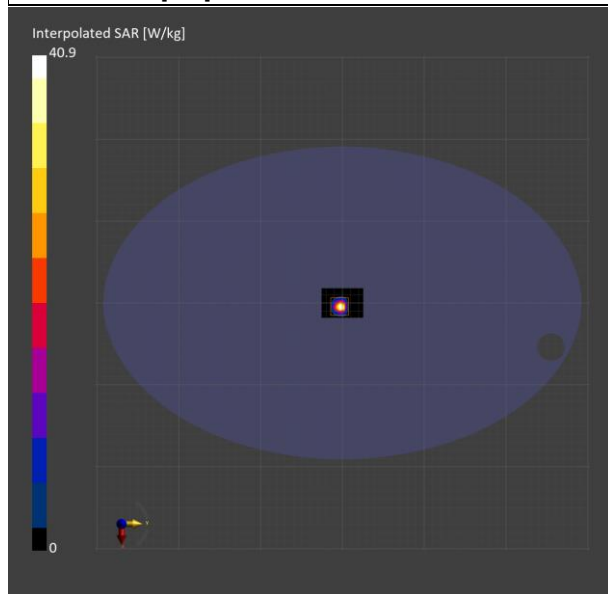
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	24.9	31.0
psSAR8g [W/kg]	6.46	7.15
psSAR10g [W/kg]	5.36	5.87
psPDab (4.0cm2, sq) [W/m2]		143
Power Drift [dB]	-0.04	0.04
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		4.8



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Report No. :TESA2507000573EN

Measurement Report

Dipole_D7000-SN:1009

Ambient temperature: 21.8°C; Liquid temperature: 21.7°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, 5.00	7000.000, 7000	5.65	6.407	32.572

Hardware Setup

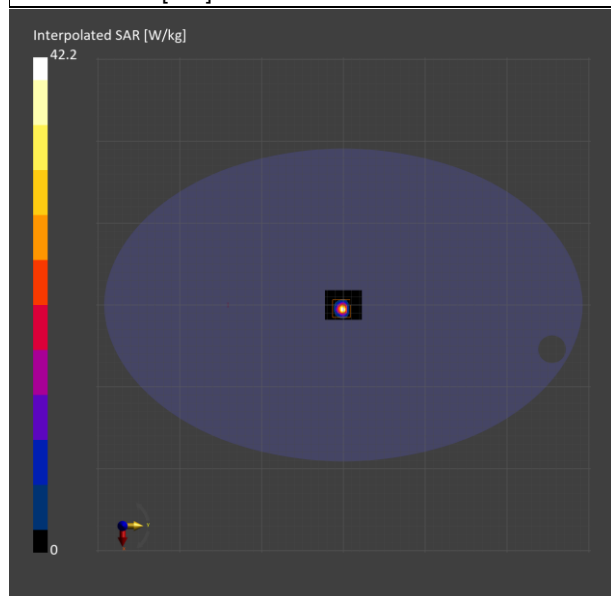
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1336, 2024-08-15

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 45.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 7.5	2.9 x 2.9 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-08-09	2025-08-09
psSAR1g [W/kg]	24.2	28.0
psSAR8g [W/kg]	5.77	6.13
psSAR10g [W/kg]	4.77	5.02
psPDab (4.0cm2, sq) [W/m2]		123
Power Drift [dB]	-0.06	-0.02
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		4.7



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15 PD SYSTEM CHECK RESULTS

Report No. :TESA2507000573EN

Measurement Report

5G Verification Source 10GHz-SN:1021

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	FRONT, 10.00	1.0

Hardware Setup

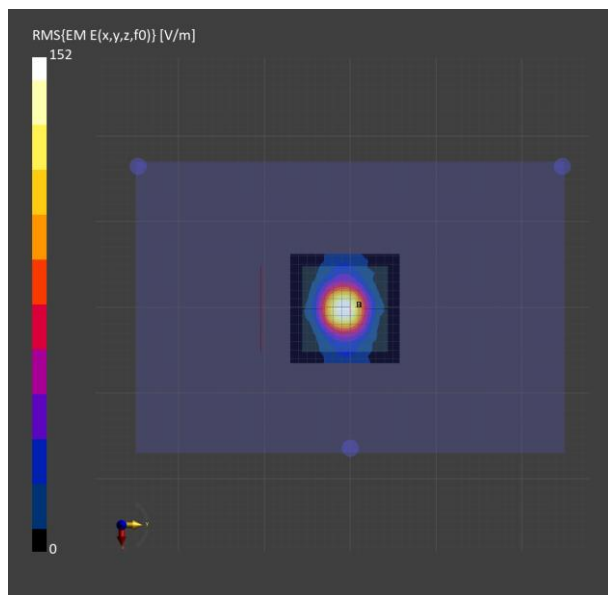
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1336, 2024-08-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Date	2025-08-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	51.0
psPDtot+ [W/m ²]	51.0
psPDmod+ [W/m ²]	51.4
E _{max} [V/m]	152
Power Drift [dB]	0.06



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Refer to separated files for the following appendixes.

16.1 SAR_Appendix A Photographs

16.2 SAR_Appendix B DAE & Probe Cal. Certificate

16.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

16.4 SAR_Appendix D Dipole Extended Calibration Verification

- End of report -

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