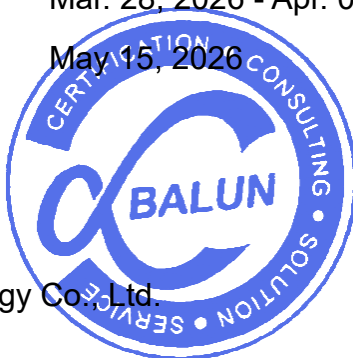


TEST REPORT

Applicant: MediaTek Inc.
Address: No. 1, Dusing 1st Rd., Hsinchu Science Park
Hsinchu City 30078 Taiwan
Equipment Type: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Model Name: MT7925B14L
Brand Name: N/A
FCC ID: RAS-MT7925B14L
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Maximum SAR: Body 2.4GHz(1 g): 0.76 W/kg
Body 5GHz(1 g): 0.78 W/kg
Body 6GHz(1 g): 0.76 W/kg
Sample Arrival Date: Mar. 13, 2026
Test Date: Mar. 28, 2026 - Apr. 03, 2026
Date of Issue: May 15, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Apr. 21, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>May 15, 2026</u>	<u>Updated the antenna location sketch in chapter 9.1&9.2 and added limbs sar evaluation in chapter 9.3.1.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MediaTek Inc.
Address	No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078 Taiwan

2.2 Manufacturer Information

Manufacturer	MediaTek Inc.
Address	No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078 Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Model Name Under Test	MT7925B14L
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.3.1 Host Information:

Product Name	Notebook Computer
Model Name	Yoga 9 2-in-1 16N1X11
Brand Name	Lenovo

2.3.2 Antenna Information:

Antenna Port	Model Name	Antenna Manufacturer	Antenna Type	Antenna Gain (dBi)								
				2.4 GHz	5.15-5.25 GHz	5.25-5.35 GHz	5.47-5.725 GHz	5.725-5.895 GHz	5.925-6.425 GHz	6.425 - 6.525 GHz	6.525 - 6.875 GHz	6.875 - 7.125 GHz
Main Antenna	DC33002A000	Speed	PIFA	2.27	3.22	3.22	4.08	4.37	4.16	3.54	3.79	3.71
Auxiliary Antenna	DC33002A000		PIFA	1.84	1.12	1.14	3.43	3.88	3.88	3.72	3.47	3.63
Main Antenna	DC33002A100	Inpaq	PIFA	2.52	2.28	2.99	2.22	3.35	2.35	3.17	2.26	2.28
Auxiliary Antenna	DC33002A100		PIFA	2.27	0.36	0.43	1.39	2.28	2.21	1.46	2.11	2.23

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, VHT, 802.11ac, 802.11ax and 802.11be
-----------------------------------	---

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WIFI, 5G WIFI, 6G WIFI, Bluetooth	
Frequency Range	802.11b/g	2412 ~ 2472 MHz
	VHT20/VHT40	2412 ~ 2472 MHz
	802.11ax(HE20/HE40)	2412 ~ 2472 MHz
	802.11be(EHT20/EHT40)	2412 ~ 2472 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac (VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ax (HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11be (EHT20/EHT40/EHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)/ 802.11be(EHT160)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz

		5815 ~ 5885 MHz
	802.11a	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz
	802.11ax (HE20/HE40/HE80/HE160)	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz
	802.11be (EHT20/EHT40/EHT80/EHT160)	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WIFI	PIFA Antenna
	Bluetooth	PIFA Antenna
Hotspot Function	N/A	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI/IEEE Std.C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
4	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
5	KDB 865664 D02 v01r02	RF Exposure Reporting
6	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters
7	KDB 616217 D04 v01r02	SAR for laptop and tablets

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR

Equipment Class	Band	Antenna	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)	
			1g SAR	1g SAR	
			Body (0mm)	Body (0mm)	
DTS	2.4G WIFI	Aux.	0.75	0.78	
		Main	0.76		
U-NII-2A	5.3G WIFI	Aux.	0.67		
		Main	0.78		
U-NII-2C	5.6G WIFI	Aux.	0.67		
		Main	0.78		
U-NII-3	5.8G WIFI	Aux.	0.67		
		Main	0.77		
U-NII-4	5.9G WIFI	Aux.	0.67		
		Main	0.78		
U-NII-5/6/7/8	6G WIFI	Aux.	0.63		
		Main	0.76		
DSS	Bluetooth	Aux.	0.11		
Limit (W/kg)			1.60		
Verdict			Pass		

3.3.2 Highest APD (4cm²)

Equipment Class	Band	Antenna	Maximum Scaled APD (W/m ²)	Maximum Report APD (W/m ²)
			Body (0mm)	Body (0mm)
U-NII-5/6/7/8	6G WIFI	Aux.	4.19	4.77
		Main	4.77	
Limit (W/m ²)			20.00	
Verdict			Pass	

3.3.3 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Report SAR (W/kg)
	1g SAR
	Body (0mm)
DTS	1.52
NII	1.54
DSS	1.54
Limit (W/kg)	1.60
Verdict	Pass

Note: The simultaneous transmission SAR detail please refer to section 12.

3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 0.78 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

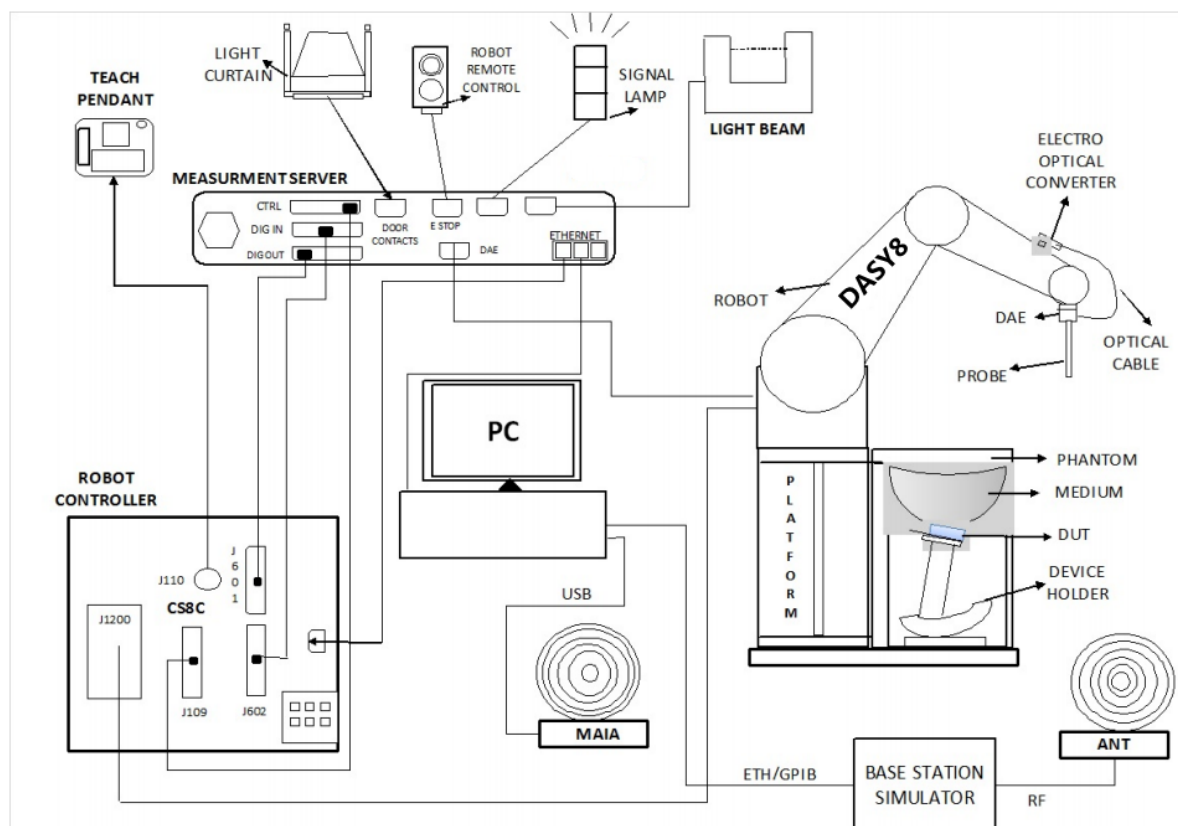
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (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.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

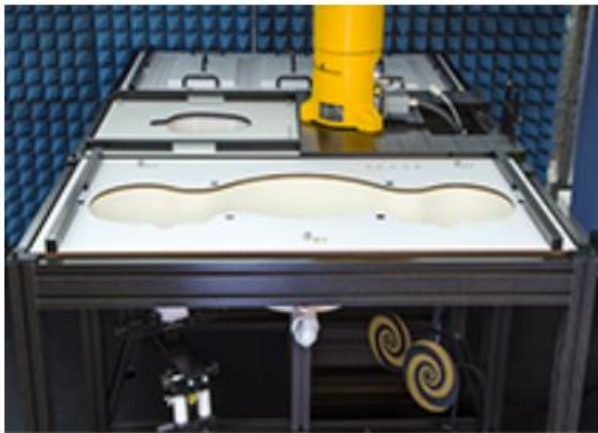
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI V8.0 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI V8.0 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.



• Flat phantom



4.2.6 Device Holder

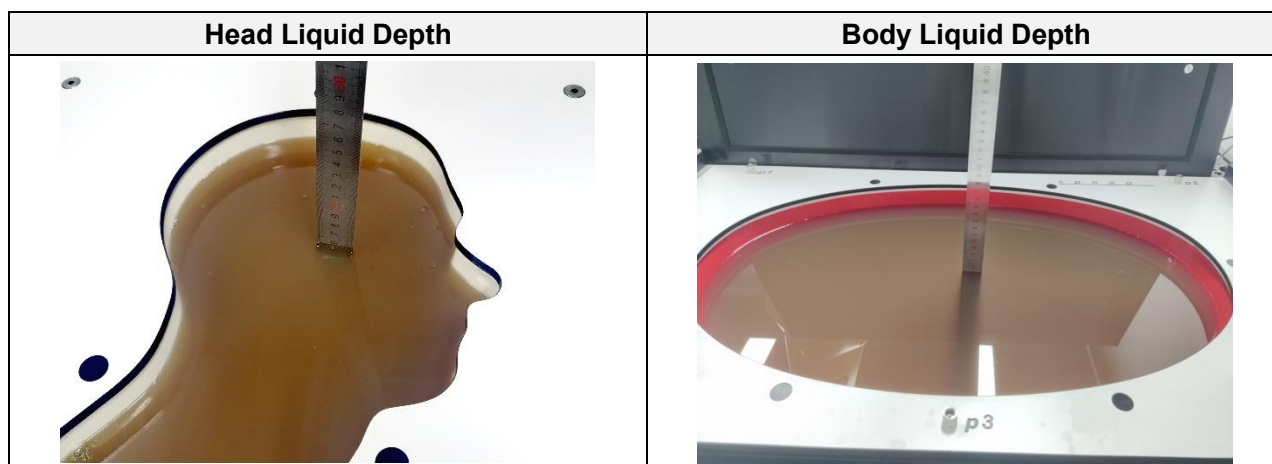
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

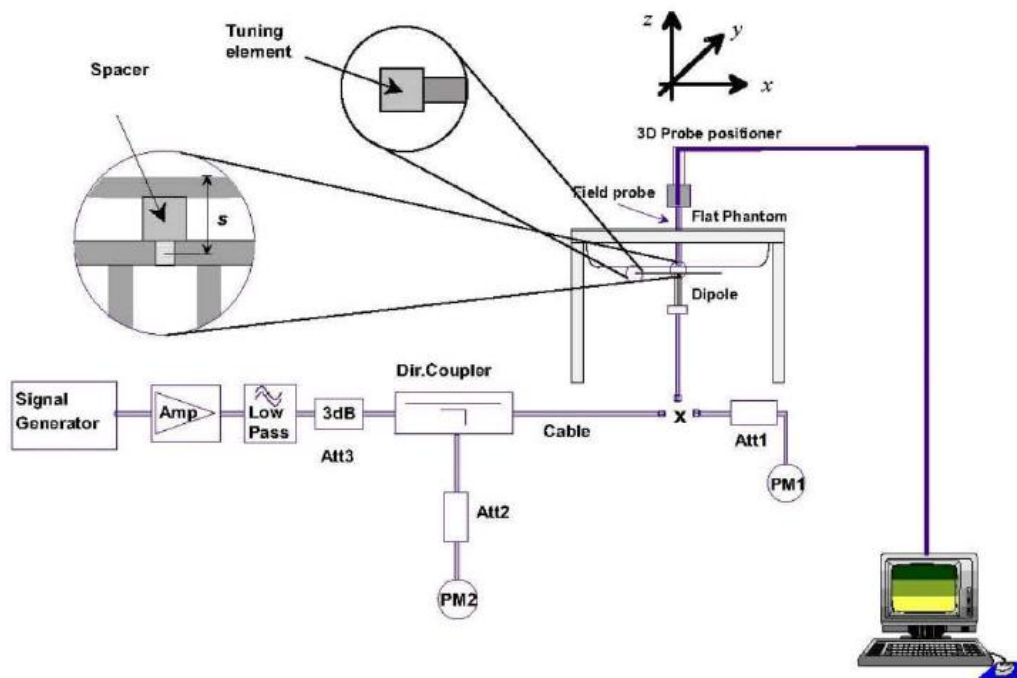
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

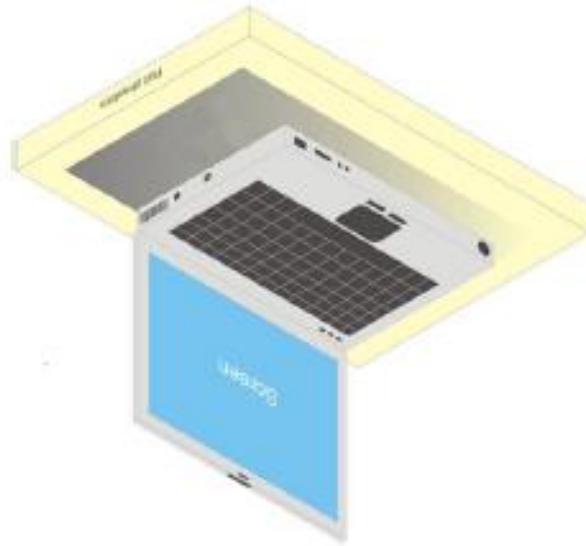
In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

6.1 Laptop Exposure Condition

This DUT should consider one position which is bottom of laptop touching with phantom 0 mm air gap and the screen portion of the device shall be an open position at a 90° angle.



6.2 Tablet Exposure Condition

This DUT was tested in two different positions. They are Back Side and Bottom Edge in these positions, the surface of DUT is touching with phantom 0mm.

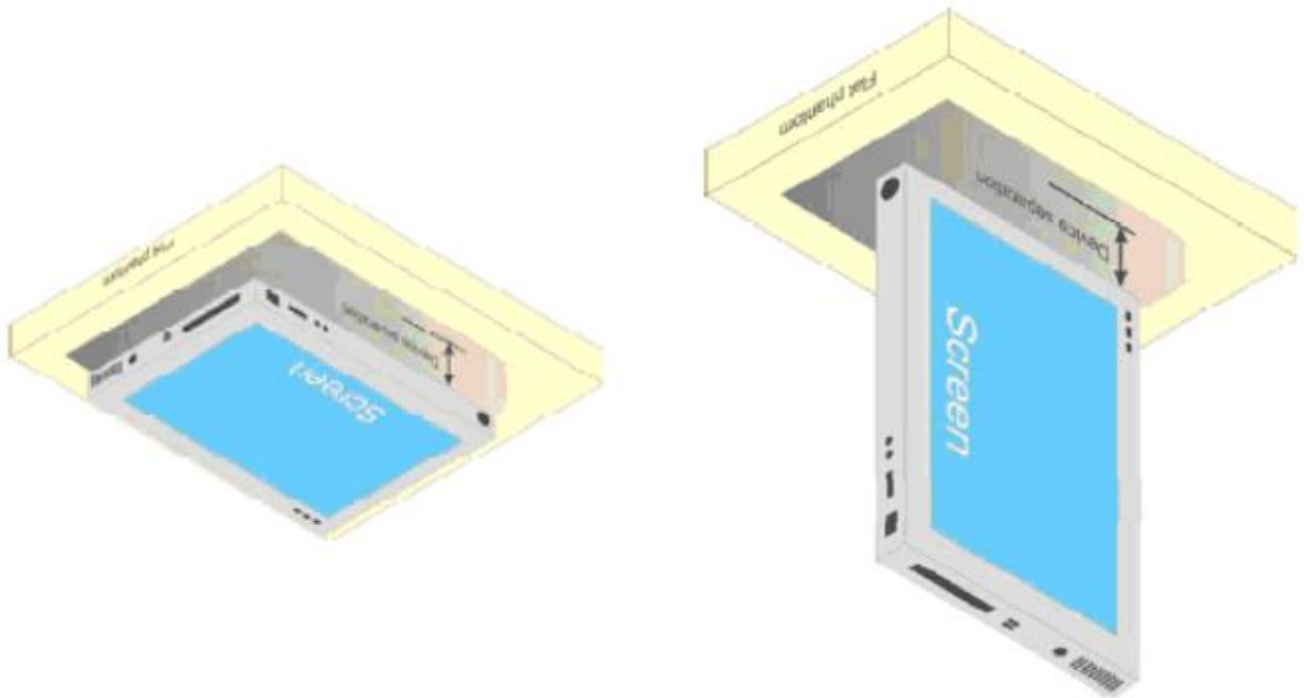
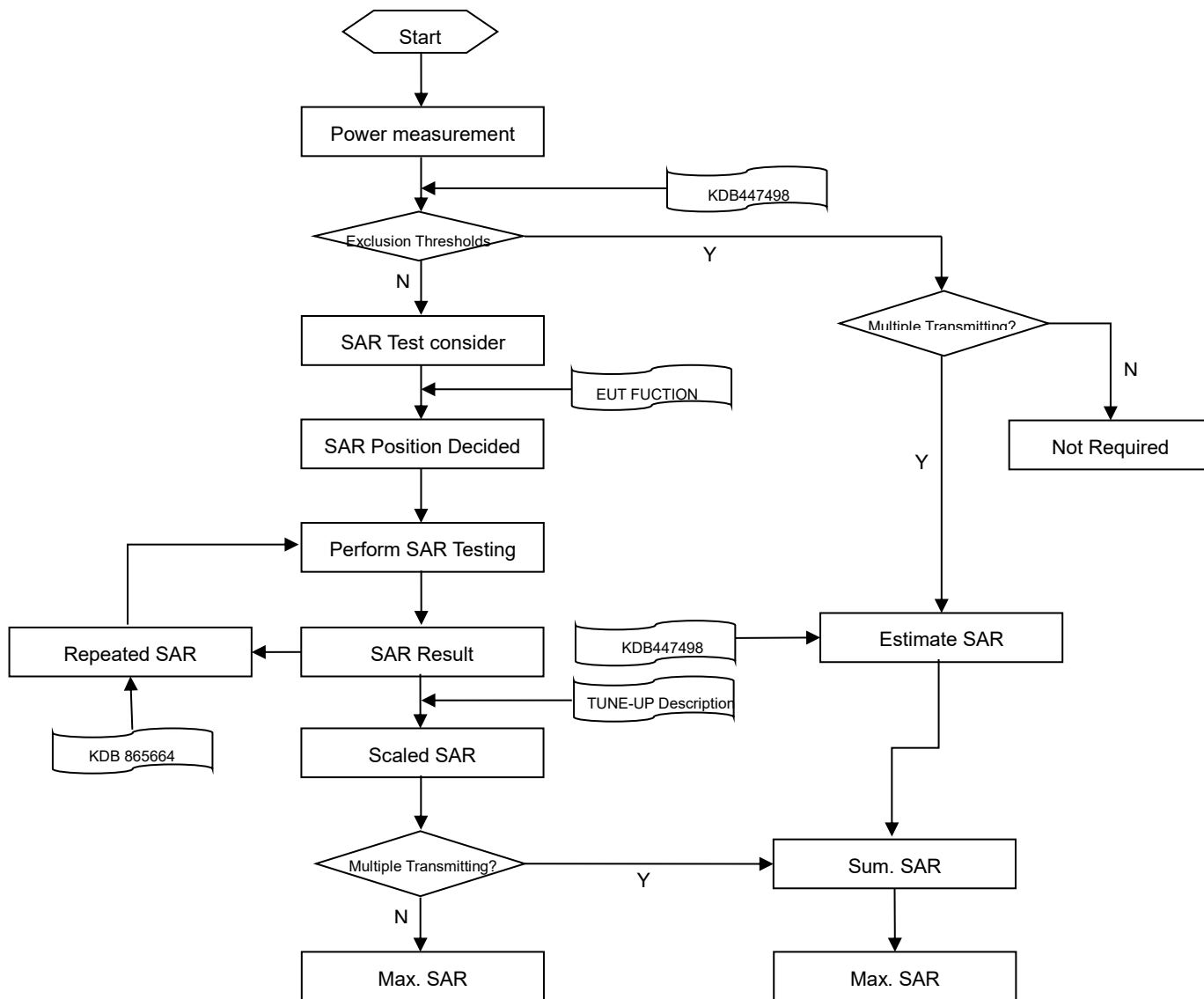


Fig Illustration for Lap-touching Position

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½·δ·ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm
Note:				
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 Interim Procedures for WIFI 6E

Interim procedures for FCC radio frequency (RF) exposure evaluations of U-NII 6-7 GHz band portable devices have been made available during the TCB workshop in April 2021. The procedure is summarized below:

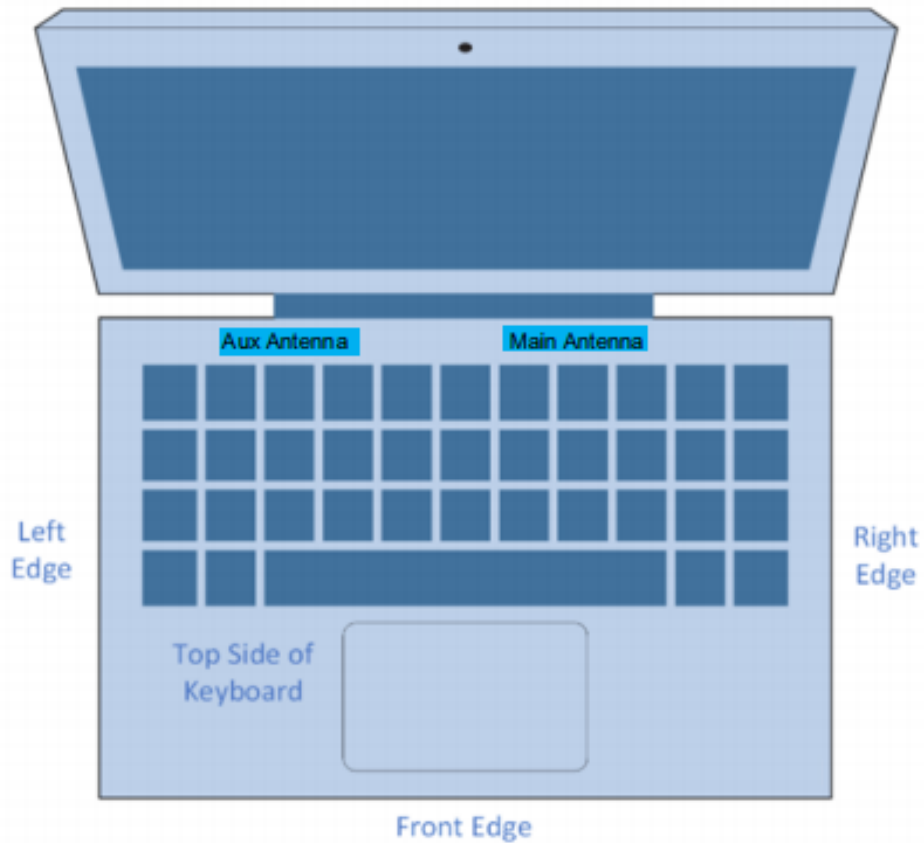
- a. Evaluate SAR / APD with DASY6 Module SAR V16.0 or higher. The configurations to be tested are defined in the relevant Knowledge Database (KDB). The psSAR and absorbed psPD are reported.
- b. For the configuration with the highest SAR, evaluate the incident power density with DASY6 Module mmWave V2.4.2 or higher. The incident psPD must be adjusted per amount that the measurement uncertainty exceeds 30% before it is included in the test report.

8 CONDUCTED RF OUTPUT POWER

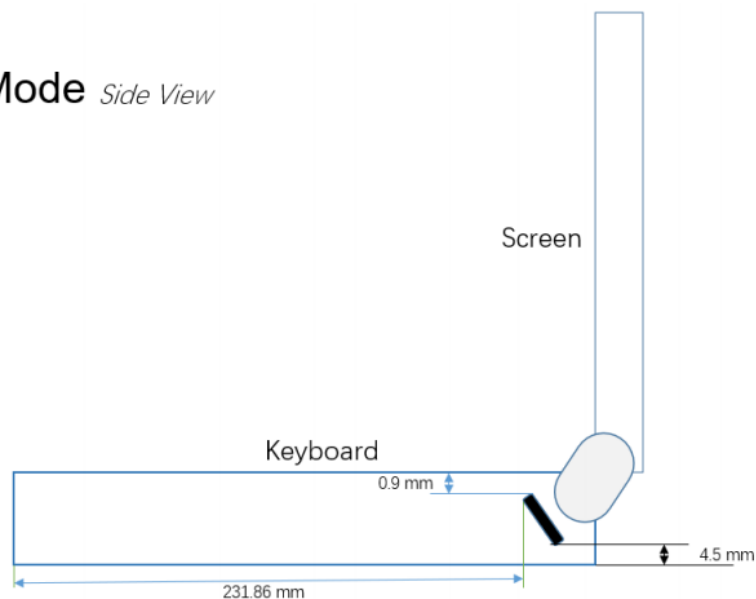
Please refer the document “Ti-EE26030337-AP-1.pdf”.

9 TEST EXCLUSION CONSIDERATION

9.1 Laptop Mode antenna location sketch

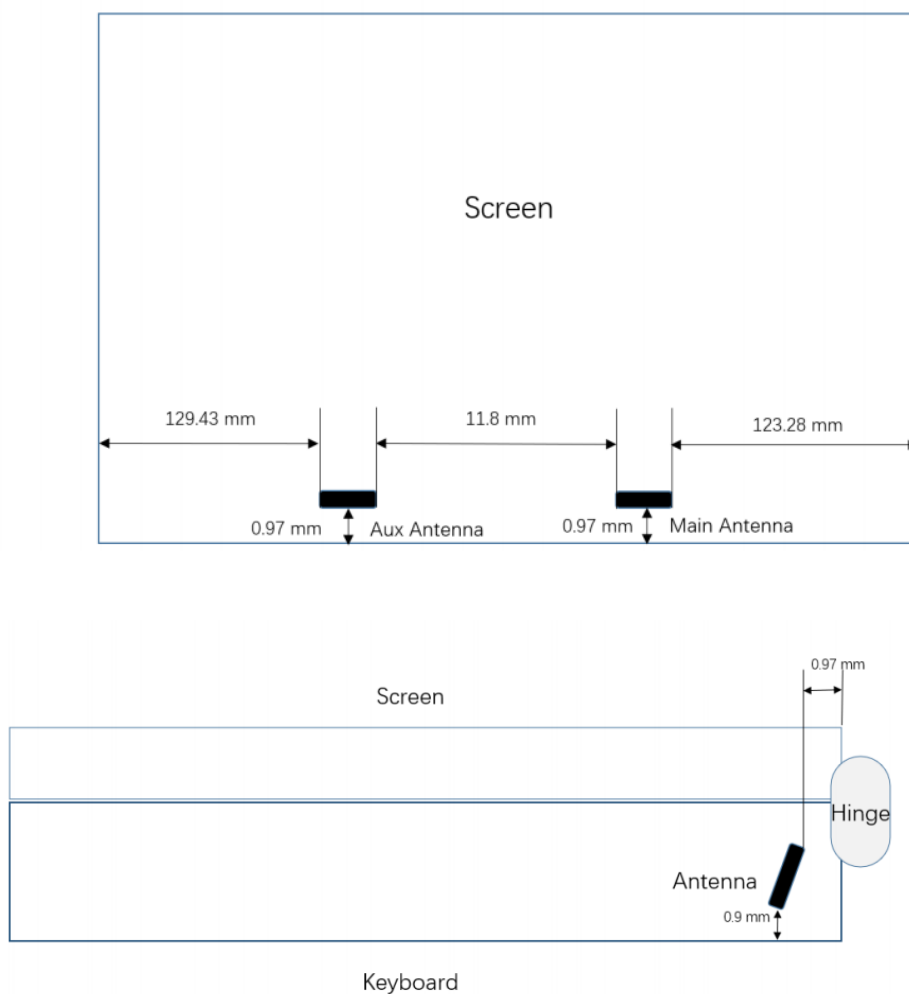


NB Mode *Side View*



9.2 Tablet Mode antenna location sketch

Tablet Mode *Front View*



Antenna	Support Bands
Aux.	WLAN 2.4G/5G/6G/BT
Main	WLAN 2.4G/5G/6G

9.3 SAR Test Consideration Table

According with FCC KDB 447498 D04, Appendix B, The SAR-based exemption formula applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). The following table shows the power threshold from 5mm to 50mm.

Power Thresholds (mW)					
Frequency (MHz)	At separation distance of ≤ 5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
300	39 mW	65 mW	88 mW	110 mW	129 mW
450	22 mW	44 mW	67 mW	89 mW	112 mW
835	9 mW	25 mW	44 mW	66 mW	90 mW
1900	3 mW	12 mW	26 mW	44 mW	66 mW
2450	3 mW	10 mW	22 mW	38 mW	59 mW
3600	2 mW	8 mW	18 mW	32 mW	49 mW
5800	1 mW	6 mW	14 mW	25 mW	40 mW
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of 50 mm
300	148 mW	166 mW	184 mW	201 mW	217 mW
450	135 mW	158 mW	180 mW	203 mW	226 mW
835	116 mW	145 mW	175 mW	207 mW	240 mW
1900	92 mW	122 mW	157 mW	195 mW	236 mW
2450	83 mW	111 mW	143 mW	179 mW	219 mW
3600	71 mW	96 mW	125 mW	158 mW	195 mW
5800	58 mW	80 mW	106 mW	136 mW	169 mW

9.3.1 SAR Test Consideration

This host is a notebook computer, under normal use the RF exposure scenarios are shown in the table below:

RF Exposure Position	RF Exposure Scenarios
Bottom Side	Body
Back Side	Body
Bottom Edge	Body
Front Edge	Body
Left Edge	Body
Right Edge	Body
Left Edge	Limbs
Right Edge	Limbs

Aux. Antenna Body RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
Calculated Frequency (MHz)		2480	2462	5320	5710	5825	5925	6000
Bottom Side	Distance to User (mm)	5						
	Max. Peak Power (dBm)	8.50	17.50	12.00	12.00	10.50	10.50	12.00
	Max. Peak Power (mW)	7.08	56.23	15.85	15.85	11.22	11.22	15.85
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35	1.34
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Back Side	Distance to User (mm)	0.9						
	Max. Peak Power (dBm)	8.50	17.50	11.50	12.00	11.00	11.00	12.00
	Max. Peak Power (mW)	7.08	56.23	14.13	15.85	12.59	12.59	15.85
	Exclusion Threshold (mW)	0.10	0.10	0.04	0.04	0.04	0.04	0.04
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Distance to User (mm)	5						
	Max. Peak Power (dBm)	8.50	17.50	11.50	12.00	11.00	11.00	12.00
	Max. Peak Power (mW)	7.08	56.23	14.13	15.85	12.59	12.59	15.85
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35	1.34
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front Edge	Distance to User (mm)	231.86						
	Max. Peak Power (dBm)	8.50	17.50	11.50	12.00	11.00	11.00	12.00
	Max. Peak Power (mW)	7.08	56.23	14.13	15.85	12.59	12.59	15.85
	Exclusion Threshold (mW)	4055.10	4054.15	4155.67	4165.11	4167.78	4170.06	4171.74
	SAR Test Required	No	No	No	No	No	No	No
Left Edge	Distance to User (mm)	129.43						
	Max. Peak Power (dBm)	8.50	17.50	11.50	12.00	11.00	11.00	12.00
	Max. Peak Power (mW)	7.08	56.23	14.13	15.85	12.59	12.59	15.85
	Exclusion Threshold (mW)	1335.75	1336.67	1242.80	1234.52	1232.20	1230.22	1228.76
	SAR Test Required	No	No	No	No	No	No	No
Right Edge	Distance to User (mm)	161.23						
	Max. Peak Power (dBm)	8.50	17.50	11.50	12.00	11.00	11.00	12.00
	Max. Peak Power (mW)	7.08	56.23	14.13	15.85	12.59	12.59	15.85
	Exclusion Threshold (mW)	2029.84	2030.54	1958.63	1952.16	1950.34	1948.79	1947.64
	SAR Test Required	No	No	No	No	No	No	No

Main Antenna Body RF exposure scenarios

Test Position Configurations	Mode	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
Calculated Frequency (MHz)		2462	5320	5710	5825	5925	6000
Bottom Side	Distance to User (mm)	5					
	Max. Peak Power (dBm)	18.50	12.00	11.50	10.00	11.00	12.00
	Max. Peak Power (mW)	70.79	15.85	14.13	10.00	12.59	15.85
	Exclusion Threshold (mW)	2.73	1.47	1.39	1.37	1.35	1.34
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Back Side	Distance to User (mm)	0.9					
	Max. Peak Power (dBm)	18.50	10.50	10.50	11.00	10.50	13.00
	Max. Peak Power (mW)	70.79	11.22	11.22	12.59	11.22	19.95
	Exclusion Threshold (mW)	0.10	0.04	0.04	0.04	0.04	0.04
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Distance to User (mm)	5					
	Max. Peak Power (dBm)	18.50	10.50	10.50	11.00	10.50	13.00
	Max. Peak Power (mW)	70.79	11.22	11.22	12.59	11.22	19.95
	Exclusion Threshold (mW)	2.73	1.47	1.39	1.37	1.35	1.34
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Front Edge	Distance to User (mm)	231.86					
	Max. Peak Power (dBm)	18.50	10.50	10.50	11.00	10.50	13.00
	Max. Peak Power (mW)	70.79	11.22	11.22	12.59	11.22	19.95
	Exclusion Threshold (mW)	4054.15	4155.67	4165.11	4167.78	4170.06	4171.74
	SAR Test Required	No	No	No	No	No	No
Left Edge	Distance to User (mm)	141.23					
	Max. Peak Power (dBm)	18.50	10.50	10.50	11.00	10.50	13.00
	Max. Peak Power (mW)	70.79	11.22	11.22	12.59	11.22	19.95
	Exclusion Threshold (mW)	1578.12	1488.88	1480.94	1478.71	1476.81	1475.41
	SAR Test Required	No	No	No	No	No	No
Right Edge	Distance to User (mm)	135.08					
	Max. Peak Power (dBm)	18.50	10.50	10.50	11.00	10.50	13.00
	Max. Peak Power (mW)	70.79	11.22	11.22	12.59	11.22	19.95
	Exclusion Threshold (mW)	1449.91	1357.76	1349.60	1347.31	1345.35	1343.91
	SAR Test Required	No	No	No	No	No	No

Aux. Antenna Limbs RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
Calculated Frequency (MHz)		2480	2462	5320	5710	5825	5925	6000
Left Edge	Distance to User (mm)	129.43						
	Max. Peak Power (dBm)	8.50	17.50	12.00	12.00	10.50	10.50	12.00
	Max. Peak Power (mW)	7.08	56.23	15.85	15.85	11.22	11.22	15.85
	Exclusion Threshold (mW)	3339.37	3341.67	3107.01	3086.31	3080.50	3075.54	3071.89
	SAR Test Required	No	No	No	No	No	No	No
Right Edge	Distance to User (mm)	161.23						
	Max. Peak Power (dBm)	8.50	17.50	12.00	12.00	10.50	10.50	12.00
	Max. Peak Power (mW)	7.08	56.23	15.85	15.85	11.22	11.22	15.85
	Exclusion Threshold (mW)	5074.61	5076.34	4896.58	4880.40	4875.85	4871.97	4869.10
	SAR Test Required	No	No	No	No	No	No	No
Note: The Limb limit is 2.5 times that of the Body limit. Similarly, the Limb power limit (in milliwatts) also needs to be multiplied by 2.5 for the judgment.								

Main Antenna Limbs RF exposure scenarios

Test Position Configurations	Mode	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
Calculated Frequency (MHz)		2462	5320	5710	5825	5925	6000
Left Edge	Distance to User (mm)	141.23					
	Max. Peak Power (dBm)	18.50	12.00	11.50	10.00	11.00	12.00
	Max. Peak Power (mW)	70.79	15.85	14.13	10.00	12.59	15.85
	Exclusion Threshold (mW)	3945.30	3722.19	3702.35	3696.78	3692.02	3688.52
	SAR Test Required	No	No	No	No	No	No
Right Edge	Distance to User (mm)	135.08					
	Max. Peak Power (dBm)	18.50	12.00	11.50	10.00	11.00	12.00
	Max. Peak Power (mW)	70.79	15.85	14.13	10.00	12.59	15.85
	Exclusion Threshold (mW)	3624.76	3394.40	3374.00	3368.27	3363.39	3359.78
	SAR Test Required	No	No	No	No	No	No
Note: The Limb limit is 2.5 times that of the Body limit. Similarly, the Limb power limit (in milliwatts) also needs to be multiplied by 2.5 for the judgment.							

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D04, for separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive), the threshold Pth (mW) is given by Following:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \leq 20cm \\ ERP_{20cm} & 20cm < d \leq 40cm \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm}\sqrt{f}} \right)$$

- a. f(GHz) is the RF channel transmit frequency in GHz
- b. d is the separation distance (cm), The result is rounded to one decimal place for comparison
- c. ERP_{20cm} are determined by:

$$ERP_{20cm}(mW) = f(x) = \begin{cases} 2040f & 0.3GHz \leq f < 1.5GHz \\ 3060 & 1.5GHz \leq f \leq 6GHz \end{cases}$$

5. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
6. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D04 SAR test exclusion applies to the OFDM configuration.
 - b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
7. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 TEST RESULT

1. The reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WIFI signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
 - c. For WIFI/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
2. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
3. Per KDB 447498 D04, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
4. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg

10.1 Bluetooth

Mode	Antenna Manufacturer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
DH5	Speed	Aux.	Laptop	Bottom Side	0	78	2480	-0.16	0.067	7.65	8.50	1.216	76.68	1.304	0.106	1#
	Speed	Aux.	Laptop	Bottom Side	0	0	2402	-0.16	0.052	7.42	8.50	1.282	76.68	1.304	0.087	/
	Speed	Aux.	Laptop	Bottom Side	0	39	2441	0.00	0.049	7.03	8.50	1.403	76.68	1.304	0.090	/
	Speed	Aux.	Tablet	Back Side	0	78	2480	0.02	0.053	7.65	8.50	1.216	76.68	1.304	0.084	/
	Speed	Aux.	Tablet	Bottom Edge	0	78	2480	-0.16	0.023	7.65	8.50	1.216	76.68	1.304	0.036	/
	INPAQ	Aux.	Laptop	Bottom Side	0	78	2480	0.01	0.057	7.65	8.50	1.216	76.68	1.304	0.090	/
	INPAQ	Aux.	Tablet	Back Side	0	78	2480	-0.05	0.059	7.42	8.50	1.282	76.68	1.304	0.099	/
	INPAQ	Aux.	Tablet	Bottom Edge	0	78	2480	0.01	0.022	7.03	8.50	1.403	76.68	1.304	0.040	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.2 WIFI 2.4GHz

Mode	Antenna Manufacturer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
802.11b	Speed	Aux.	Laptop	Bottom Side	0	11	2462	-0.03	0.623	16.85	17.50	1.161	96.06	1.041	0.753	2#
	Speed	Aux.	Laptop	Bottom Side	0	1	2412	0.03	0.601	16.74	17.50	1.191	96.06	1.041	0.745	/
	Speed	Aux.	Laptop	Bottom Side	0	6	2437	-0.14	0.591	16.73	17.50	1.194	96.06	1.041	0.735	/
	Speed	Aux.	Tablet	Back Side	0	11	2462	0.19	0.588	16.85	17.50	1.161	96.06	1.041	0.711	/
	Speed	Aux.	Tablet	Bottom Edge	0	11	2462	0.06	0.083	16.85	17.50	1.161	96.06	1.041	0.100	/
	INPAQ	Aux.	Laptop	Bottom Side	0	11	2462	0.13	0.572	16.85	17.50	1.161	96.06	1.041	0.691	/
	INPAQ	Aux.	Tablet	Back Side	0	11	2462	0.05	0.542	16.85	17.50	1.161	96.06	1.041	0.655	/
	INPAQ	Aux.	Tablet	Bottom Edge	0	11	2462	-0.13	0.095	16.85	17.50	1.161	96.06	1.041	0.115	/
	Speed	Main	Laptop	Bottom Side	0	6	2437	0.13	0.631	18.05	18.50	1.109	96.06	1.041	0.728	/
	Speed	Main	Laptop	Bottom Side	0	1	2412	-0.04	0.651	18.01	18.50	1.119	96.06	1.041	0.758	3#
	Speed	Main	Laptop	Bottom Side	0	11	2462	0.15	0.501	17.95	18.50	1.135	96.06	1.041	0.592	/
	Speed	Main	Tablet	Back Side	0	6	2437	0.19	0.632	18.05	18.50	1.109	96.06	1.041	0.730	/
	Speed	Main	Tablet	Bottom Edge	0	6	2437	-0.02	0.121	18.05	18.50	1.109	96.06	1.041	0.140	/
	INPAQ	Main	Laptop	Bottom Side	0	6	2437	-0.09	0.585	18.05	18.50	1.109	96.06	1.041	0.675	/
	INPAQ	Main	Tablet	Back Side	0	6	2437	0.01	0.564	18.05	18.50	1.109	96.06	1.041	0.651	/
	INPAQ	Main	Tablet	Bottom Edge	0	6	2437	0.02	0.223	18.05	18.50	1.109	96.06	1.041	0.257	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.3WIFI 5GHz

Band	Mode	Antenna Manufacturer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																	
5.3G	802.11 ac80	Speed	Aux.	Laptop	Bottom Side	0	58	5290	-0.11	0.490	10.78	12.00	1.324	96.91	1.032	0.670	4#
		Speed	Aux.	Tablet	Back Side	0	58	5290	0.00	0.452	10.37	11.50	1.297	96.91	1.032	0.605	/
		Speed	Aux.	Tablet	Bottom Edge	0	58	5290	-0.10	0.079	10.37	11.50	1.297	96.91	1.032	0.106	/
		INPAQ	Aux.	Laptop	Bottom Side	0	58	5290	0.12	0.401	10.78	12.00	1.324	96.91	1.032	0.548	/
		INPAQ	Aux.	Tablet	Back Side	0	58	5290	0.13	0.449	10.37	11.50	1.297	96.91	1.032	0.601	/
		INPAQ	Aux.	Tablet	Bottom Edge	0	58	5290	-0.12	0.051	10.37	11.50	1.297	96.91	1.032	0.068	/
		Speed	Main	Laptop	Bottom Side	0	58	5290	0.17	0.614	11.63	12.00	1.089	96.91	1.032	0.690	/
		Speed	Main	Tablet	Back Side	0	58	5290	0.16	0.622	10.06	10.50	1.107	96.91	1.032	0.711	/
		Speed	Main	Tablet	Bottom Edge	0	58	5290	-0.12	0.114	10.06	10.50	1.107	96.91	1.032	0.130	/
		INPAQ	Main	Laptop	Bottom Side	0	58	5290	-0.05	0.653	11.63	12.00	1.089	96.91	1.032	0.734	/
		INPAQ	Main	Tablet	Back Side	0	58	5290	-0.19	0.684	10.06	10.50	1.107	96.91	1.032	0.781	5#
		INPAQ	Main	Tablet	Bottom Edge	0	58	5290	-0.04	0.133	10.06	10.50	1.107	96.91	1.032	0.152	/
5.6G	802.11 ac160	Speed	Aux.	Laptop	Bottom Side	0	114	5570	-0.09	0.528	11.22	12.00	1.197	93.97	1.064	0.672	6#
		Speed	Aux.	Tablet	Back Side	0	114	5570	-0.03	0.501	11.22	12.00	1.197	93.97	1.064	0.638	/
		Speed	Aux.	Tablet	Bottom Edge	0	114	5570	-0.15	0.052	11.22	12.00	1.197	93.97	1.064	0.066	/
		INPAQ	Aux.	Laptop	Bottom Side	0	114	5570	-0.04	0.411	11.22	12.00	1.197	93.97	1.064	0.523	/
		INPAQ	Aux.	Tablet	Back Side	0	114	5570	-0.17	0.401	11.22	12.00	1.197	93.97	1.064	0.511	/
		INPAQ	Aux.	Tablet	Bottom Edge	0	114	5570	0.12	0.033	11.22	12.00	1.197	93.97	1.064	0.042	/
		Speed	Main	Laptop	Bottom Side	0	114	5570	0.13	0.611	11.02	11.50	1.117	93.97	1.064	0.726	/
		Speed	Main	Tablet	Back Side	0	114	5570	-0.13	0.628	9.83	10.50	1.167	93.97	1.064	0.780	7#
		Speed	Main	Tablet	Bottom Edge	0	114	5570	0.11	0.133	9.83	10.50	1.167	93.97	1.064	0.165	/
		INPAQ	Main	Laptop	Bottom Side	0	114	5570	0.10	0.617	11.02	11.50	1.117	93.97	1.064	0.733	/
		INPAQ	Main	Tablet	Back Side	0	114	5570	0.19	0.624	9.83	10.50	1.167	93.97	1.064	0.775	/
		INPAQ	Main	Tablet	Bottom Edge	0	114	5570	-0.12	0.122	9.83	10.50	1.167	93.97	1.064	0.151	/
5.8G	802.11 ac80	Speed	Aux.	Laptop	Bottom Side	0	155	5775	0.09	0.491	9.38	10.50	1.294	96.91	1.032	0.656	/
		Speed	Aux.	Tablet	Back Side	0	155	5775	0.12	0.475	10.06	11.00	1.242	96.91	1.032	0.609	/
		Speed	Aux.	Tablet	Bottom Edge	0	155	5775	0.04	0.087	10.06	11.00	1.242	96.91	1.032	0.112	/
		INPAQ	Aux.	Laptop	Bottom Side	0	155	5775	-0.15	0.503	9.38	10.50	1.294	96.91	1.032	0.672	8#
		INPAQ	Aux.	Tablet	Back Side	0	155	5775	-0.05	0.485	10.06	11.00	1.242	96.91	1.032	0.622	/
		INPAQ	Aux.	Tablet	Bottom Edge	0	155	5775	0.09	0.098	10.06	11.00	1.242	96.91	1.032	0.126	/
		Speed	Main	Laptop	Bottom Side	0	155	5775	0.06	0.609	9.21	10.00	1.199	96.91	1.032	0.754	/
		Speed	Main	Tablet	Back Side	0	155	5775	-0.09	0.611	10.22	11.00	1.197	96.91	1.032	0.755	/
		Speed	Main	Tablet	Bottom Edge	0	155	5775	0.14	0.091	10.22	11.00	1.197	96.91	1.032	0.112	/

		INPAQ	Main	Laptop	Bottom Side	0	155	5775	0.18	0.611	9.21	10.00	1.199	96.91	1.032	0.756	/
		INPAQ	Main	Tablet	Back Side	0	155	5775	-0.14	0.622	10.22	11.00	1.197	96.91	1.032	0.768	9#
		INPAQ	Main	Tablet	Bottom Edge	0	155	5775	0.12	0.103	10.22	11.00	1.197	96.91	1.032	0.127	/
5.9G	802.11 ac160	Speed	Aux.	Laptop	Bottom Side	0	163	5815	-0.16	0.492	9.54	10.50	1.247	93.97	1.064	0.653	/
		Speed	Aux.	Tablet	Back Side	0	163	5815	-0.16	0.468	10.03	11.00	1.250	93.97	1.064	0.622	/
		Speed	Aux.	Tablet	Bottom Edge	0	163	5815	-0.15	0.081	10.03	11.00	1.250	93.97	1.064	0.108	/
		INPAQ	Aux.	Laptop	Bottom Side	0	163	5815	-0.11	0.501	9.54	10.50	1.247	93.97	1.064	0.665	10#
		INPAQ	Aux.	Tablet	Back Side	0	163	5815	0.14	0.476	10.03	11.00	1.250	93.97	1.064	0.633	/
		INPAQ	Aux.	Tablet	Bottom Edge	0	163	5815	-0.19	0.089	10.03	11.00	1.250	93.97	1.064	0.118	/
		Speed	Main	Laptop	Bottom Side	0	163	5815	0.13	0.621	10.45	11.00	1.135	93.97	1.064	0.750	/
		Speed	Main	Tablet	Back Side	0	163	5815	-0.07	0.644	10.02	10.50	1.117	93.97	1.064	0.765	/
		Speed	Main	Tablet	Bottom Edge	0	163	5815	0.07	0.093	10.02	10.50	1.117	93.97	1.064	0.111	/
		INPAQ	Main	Laptop	Bottom Side	0	163	5815	0.04	0.631	10.45	11.00	1.135	93.97	1.064	0.762	/
		INPAQ	Main	Tablet	Back Side	0	163	5815	-0.11	0.653	10.02	10.50	1.117	93.97	1.064	0.776	11#
		INPAQ	Main	Tablet	Bottom Edge	0	163	5815	-0.03	0.106	10.02	10.50	1.117	93.97	1.064	0.126	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

10.4WIFI 6GHz

Mode	Antenna Manufacturer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Measured APD 4cm ² [W/m ²]	Meas. uncertainty Scaling Factor	Scaled APD [W/m ²]	Meas. No.
Body																			
802.11ax160	Speed	Aux.	Laptop	Bottom Side	0	207	6985	0.06	0.423	11.12	12.00	1.225	97.41	1.027	0.532	2.440	1.028	3.156	/
	Speed	Aux.	Laptop	Bottom Side	0	15	6025	0.13	0.433	10.56	11.50	1.242	97.41	1.027	0.552	2.430	1.028	3.186	/
	Speed	Aux.	Laptop	Bottom Side	0	47	6185	-0.19	0.401	10.63	11.50	1.222	97.41	1.027	0.503	2.490	1.028	3.212	/
	Speed	Aux.	Laptop	Bottom Side	0	79	6345	-0.19	0.412	10.71	11.50	1.199	97.41	1.027	0.507	2.600	1.028	3.291	/
	Speed	Aux.	Laptop	Bottom Side	0	111	6505	0.16	0.452	10.22	11.50	1.343	97.41	1.027	0.623	2.920	1.028	4.140	/
	Speed	Aux.	Laptop	Bottom Side	0	143	6665	-0.12	0.489	11.01	12.00	1.256	97.41	1.027	0.631	3.160	1.028	4.190	12#
	Speed	Aux.	Laptop	Bottom Side	0	175	6825	0.13	0.398	11.03	12.00	1.250	97.41	1.027	0.511	2.270	1.028	2.996	/
	Speed	Aux.	Tablet	Back Side	0	207	6985	-0.17	0.461	11.12	12.00	1.225	97.41	1.027	0.580	2.980	1.028	3.854	/
	Speed	Aux.	Tablet	Bottom Edge	0	207	6985	0.09	0.096	11.12	12.00	1.225	97.41	1.027	0.121	0.623	1.028	0.806	/
	INPAQ	Aux.	Laptop	Bottom Side	0	207	6985	0.00	0.432	11.12	12.00	1.225	97.41	1.027	0.543	2.790	1.028	3.608	/
	INPAQ	Aux.	Tablet	Back Side	0	207	6985	0.17	0.446	11.12	12.00	1.225	97.41	1.027	0.561	2.880	1.028	3.725	/
	INPAQ	Aux.	Tablet	Bottom Edge	0	207	6985	0.18	0.061	11.12	12.00	1.225	97.41	1.027	0.077	0.391	1.028	0.506	/
	Speed	Main	Laptop	Bottom Side	0	111	6505	0.03	0.542	11.23	12.00	1.194	97.41	1.027	0.665	3.310	1.028	4.172	/
	Speed	Main	Tablet	Back Side	0	111	6505	-0.19	0.532	12.11	13.00	1.227	97.41	1.027	0.670	3.250	1.028	4.210	/
	Speed	Main	Tablet	Bottom Edge	0	111	6505	-0.12	0.146	12.11	13.00	1.227	97.41	1.027	0.184	0.892	1.028	1.156	/
	INPAQ	Main	Laptop	Bottom Side	0	111	6505	-0.03	0.541	11.23	12.00	1.194	97.41	1.027	0.663	2.360	1.028	2.975	/
	INPAQ	Main	Tablet	Back Side	0	111	6505	-0.18	0.602	12.11	13.00	1.227	97.41	1.027	0.759	3.680	1.028	4.767	13#
	INPAQ	Main	Tablet	Bottom Edge	0	111	6505	-0.06	0.099	12.11	13.00	1.227	97.41	1.027	0.125	0.605	1.028	0.784	/
	INPAQ	Main	Tablet	Back Side	0	15	6025	-0.06	0.531	11.42	12.00	1.143	97.41	1.027	0.623	2.530	1.028	3.053	/
	INPAQ	Main	Tablet	Back Side	0	47	6185	0.09	0.522	11.26	12.00	1.186	97.41	1.027	0.636	3.190	1.028	3.994	/
	INPAQ	Main	Tablet	Back Side	0	79	6345	-0.11	0.586	11.31	12.00	1.172	97.41	1.027	0.705	3.580	1.028	4.430	/
	INPAQ	Main	Tablet	Back Side	0	143	6665	-0.14	0.527	12.01	12.50	1.119	97.41	1.027	0.606	2.530	1.028	2.989	/
	INPAQ	Main	Tablet	Back Side	0	175	6825	-0.04	0.544	11.85	12.50	1.161	97.41	1.027	0.649	3.320	1.028	4.069	/
	INPAQ	Main	Tablet	Back Side	0	207	6985	-0.16	0.486	9.65	10.50	1.216	97.41	1.027	0.607	2.810	1.028	3.607	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																			

11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. 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 ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is $0.684 < 0.80$ W/kg, repeated measurement is not required.

12 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

According KDB 447498 D04, simultaneous transmission:

- a) $SPLSR = (SAR1 + SAR2)^{1.5} / R_i$ (min. separation distance, mm), and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.
SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition as the first.
- b) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
- c) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

12.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Tx Combination	Body
1	Bluetooth + WLAN 2.4GHz (Antenna Main)	Yes
2	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 2.4GHz (Antenna Main)	Yes
3	Bluetooth + WLAN 5GHz (Antenna Auxiliary)	Yes
4	Bluetooth + WLAN 5GHz (Antenna Main)	Yes
5	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
6	WLAN 2.4GHz (Antenna Main) + WLAN 5GHz (Antenna Auxiliary)	Yes
7	WLAN 5GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
8	Bluetooth + WLAN 5GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
9	Bluetooth + WLAN 6GHz (Antenna Auxiliary)	Yes
10	Bluetooth + WLAN 6GHz (Antenna Main)	Yes
11	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
12	WLAN 2.4GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	Yes
13	WLAN 5GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
14	WLAN 5GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	Yes
15	WLAN 6GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
16	Bluetooth + WLAN 6GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes

Note:

1. The EUT supports the Antenna Auxiliary with TX/RX diversity function for WLAN and Bluetooth, the Antenna Main with TX/RX diversity function for WLAN.
2. WLAN 2.4GHz and Bluetooth will not be transmitting from the Antenna Auxiliary at same time.
3. When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
4. The maximum SAR summation is calculated based on the same configuration and test position.

12.2 Body Simultaneous Transmission SAR Evaluation

State	Position	Stand alone SAR							
		1	2	3	4	5	6	7	
		Bluetooth (Antenna Auxiliary)	WLAN 2.4GHz (Antenna Auxiliary)	WLAN 2.4GHz (Antenna Main)	WLAN 5GHz MAX. (Antenna Auxiliary)	WLAN 5GHz MAX. (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	
Laptop	Bottom Side	0.106	0.753	0.758	0.672	0.762	0.631	0.665	
Tablet	Back Side	0.099	0.655	0.730	0.638	0.781	0.580	0.759	
Tablet	Bottom Edge	0.040	0.115	0.257	0.126	0.165	0.121	0.184	
SUM SAR									
Sum SAR (1+3)	Sum SAR (2+3)	Sum SAR (2+5)	Sum SAR (3+4)	Sum SAR (1+4+5)	Sum SAR (2+7)	Sum SAR (3+6)	Sum SAR (4+7)	Sum SAR (5+6)	Sum SAR (1+6+7)
0.864	1.511	1.515	1.430	1.540	1.418	1.389	1.337	1.393	1.402
0.829	1.385	1.436	1.368	1.518	1.414	1.310	1.397	1.361	1.438
0.297	0.372	0.280	0.383	0.331	0.299	0.378	0.310	0.286	0.345
Note:									
1: The simultaneous transmission combinations of more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations was shown in this table.									
2: The highest Summed 1g SAR is 1.540 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.									

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY8	16.2.2.1588	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2024/05/28	2027/05/27
Data Acquisition Electronics	Speag	DAE4	SN: 1711	2025/11/11	2026/11/10
E-Field Probe	Speag	EX3DV4	SN: 7607	2025/08/06	2026/08/05
Signal Generator	Keysight	N5173B	MY62150163	2025/07/15	2026/07/14
Power Meter	R&S	NRVD-B2	835843/014	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z4	100381	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z2	100211	2025/07/15	2026/07/14
Network Analyzer	Agilent	E5071C	MY46103472	2025/08/13	2026/08/12
Thermometer	Elitech	RC-4HC	EF720B004813	2025/10/30	2026/10/29
Thermometer	Elitech	RC-4HC	EF720B004817	2025/10/30	2026/10/29
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2162	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2026.03.28	Head	2450	21.3	1.83	38.48	1.80	39.20	1.67	-1.84
2026.03.29	Head	5250	21.5	4.66	36.67	4.71	35.93	-1.06	2.06
2026.03.30	Head	5600	21.4	5.10	35.14	5.07	35.53	0.59	-1.10
2026.03.31	Head	5600	21.2	5.06	35.22	5.07	35.53	-0.20	-0.87
2026.04.01	Head	5750	21.5	5.16	36.09	5.22	35.36	-1.15	2.06
2026.04.02	Head	6500	21.2	5.88	35.11	6.07	34.46	-3.13	1.89
2026.04.03	Head	6500	21.6	6.25	34.14	6.07	34.46	2.97	-0.93
Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %.

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2026.03.28	Head	2450	100	5.220	52.20	52.60	-0.76
2026.03.29	Head	5250	100	7.740	77.40	77.70	-0.39
2026.03.30	Head	5600	100	8.110	81.10	81.30	-0.25
2026.03.31	Head	5600	100	8.090	80.90	81.30	-0.49
2026.04.01	Head	5750	100	7.740	77.40	77.60	-0.26
2026.04.02	Head	6500	100	28.700	287.00	299.00	-4.01
2026.04.03	Head	6500	100	30.300	303.00	299.00	1.34

Note: The tolerance limit of System validation $\pm 10\%$.

Please refer the document "Ti-EE26030337-ASC-1.pdf".

ANNEX C TEST DATA

Please refer the document “Ti-EE26030337-ATD-1.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26030337-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “Ti-EE26030337-AS-1.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “Ti-EE26030337-AC-1.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “Ti-EE26030337-AT-1.pdf”.

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