

TEST REPORT

Applicant: XPPEN Technology CO.
Address: 15350 FAIRFIELD RANCH RD #G CHINO HILLS,
CA 91709 USA
Equipment Type: Magic Pro 13
Model Name: MDP1311 (refer to section 2.3)
Brand Name: XPPen
FCC ID: 2AKDT-MDP1311
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Maximum SAR: Body (1 g): 1.00 W/kg
Sample Arrival Date: Jun. 15, 2026
Test Date: Jul. 10, 2026 – Jul. 17, 2026
Date of Issue: Aug. 07, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Guo Guangwei**Checked by:** Xu Rui**Approved by:** Liao Jianming
(Technical Director)

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Aug. 07, 2026</u>	<u>Initial Issue</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	XPPEN Technology CO.
Address	15350 FAIRFIELD RANCH RD #G CHINO HILLS, CA 91709 USA

2.2 Manufacturer Information

Manufacturer	Hanvon Ugee Technology Co., Ltd.
Address	18/F, 19/F, 20/F, No.1 Bldg., Longhua Digital Intelligent Manufacturing Center, No. 238 Longsheng Road, Longhua District, Shenzhen

2.3 General Description for Equipment under Test (EUT)

EUT Name	Magic Pro 13
Model Name Under Test	MDP1311
Series Model Name	MDP1312, MDP1313, MDP1314, MDP1315
Description of Model Name Differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (This information provided by the customer)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	CC26060119-001: S16, S20

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	/
	Model No.	HQ-8613VK
	Serial No.	N/A
	Capacitance	Rated: 9820mAh Typical: 10200mAh
	Rated Voltage	3.91V
	Limited Voltage	4.5V
	Manufacturer	Dongguan Veken Battery Co., Ltd.
Ancillary Equipment 2	USB Cable	
	Model No.	/
	Length (Approx.)	1.0m
Ancillary Equipment 3	Stylus Pen	
	Model No.	/

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160), 802.11ax(HE20/40/80/160),
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WLAN; Bluetooth	
Frequency Range	802.11b/g/n(HT20/40)	2400 ~ 2483.5 MHz
	802.11a	5150 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11n(HT20/HT40)	5150 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ac (VHT20/VHT40/VHT80/ VHT160)	5150 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ax (HE20/HE40/HE80/ HE160)	5150 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5945 ~ 6425 MHz
		6425 MHz ~ 6525 MHz
		6525 MHz ~ 6875 MHz
		6875 MHz ~ 7125 MHz
	Bluetooth	2400 ~ 2483.5 MHz

Antenna Type	Ant 1	IFA Antenna
	Ant 2	Monopole Antenna
	Ant 3	IFA Antenna
Exposure Category	General Population/Uncontrolled exposure	
EUT Type	Portable Device	

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
8	IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)

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 (1 g Value)

Equipment Class	Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
		Body	Body
		(0mm)	(0mm)
		1g SAR	1g SAR
DTS	2.4G WIFI	0.94	1.00
NII	5.3G WIFI	1.00	
	5.6G WIFI	0.93	
	5.8G WIFI	0.98	
	6G WIFI	0.96	
DSS	Bluetooth	0.43	
Limit (W/kg)		1.6	1.6
Verdict		PASS	

Band	Band	Maximum Scaled APD(W/m^2)	Maximum Report APD(W/m^2)
		Body	Body
		(0mm)	(0mm)
NII	6G WIFI	5.08	5.08
Limit (W/m^2)		20	
Verdict		PASS	

3.3.2 Highest Simultaneous Transmission SAR Values (1 g Value)

Equipment Class	Maximum Simultaneous Transmission SAR	
	(W/kg)	
	Body 1g (0mm)	
DTS	1.52	
NII	1.52	
DSS	1.42	
Limit (W/Kg)		1.60
Verdict		Pass

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 1.00 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

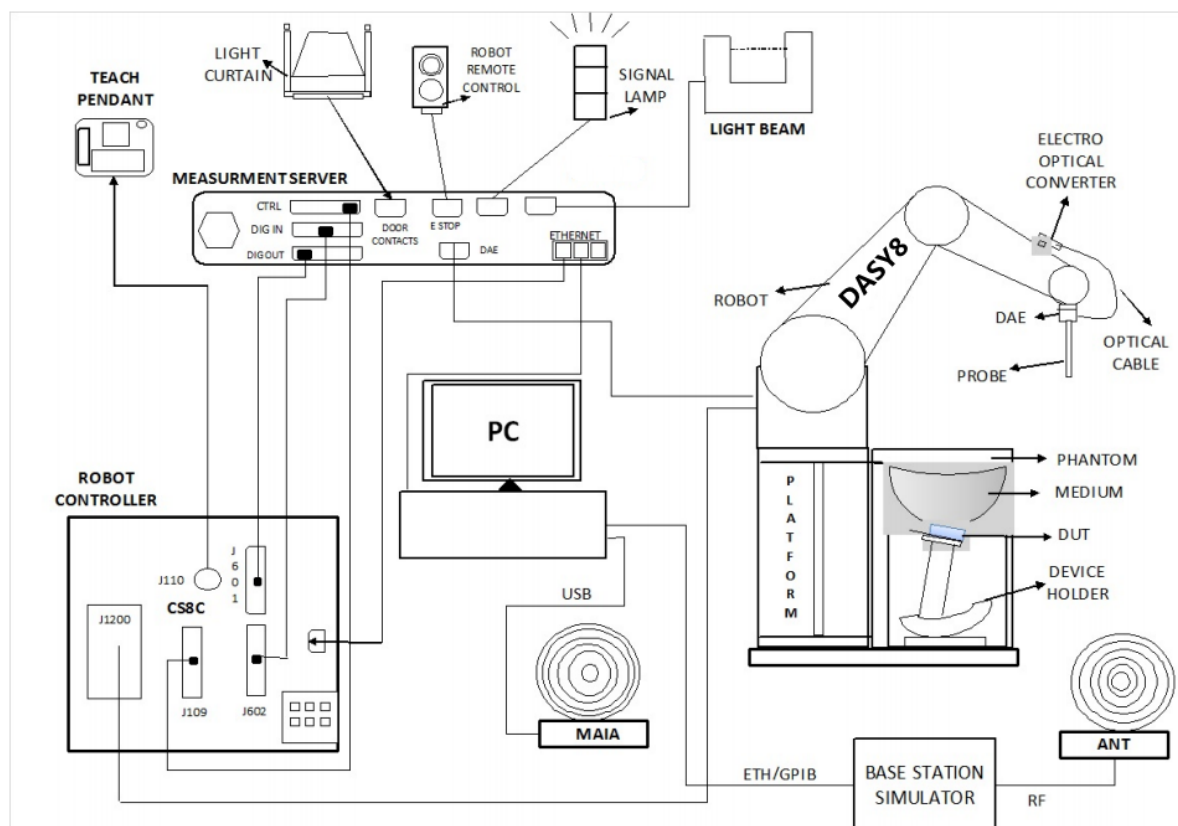
$$SAR = \frac{\sigma E^2}{\rho}$$

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

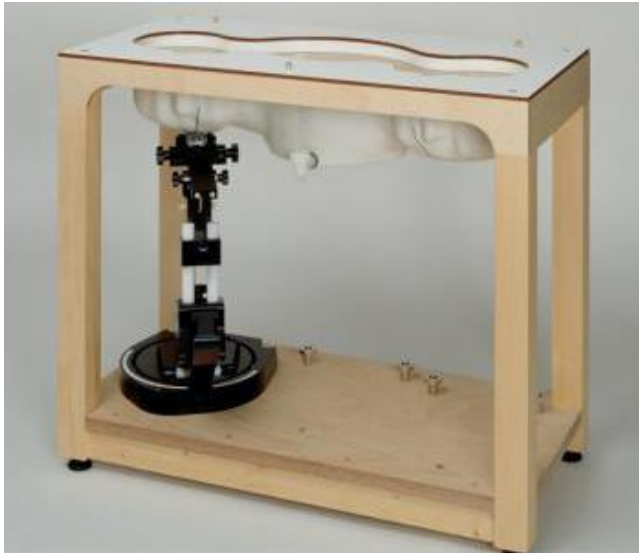
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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

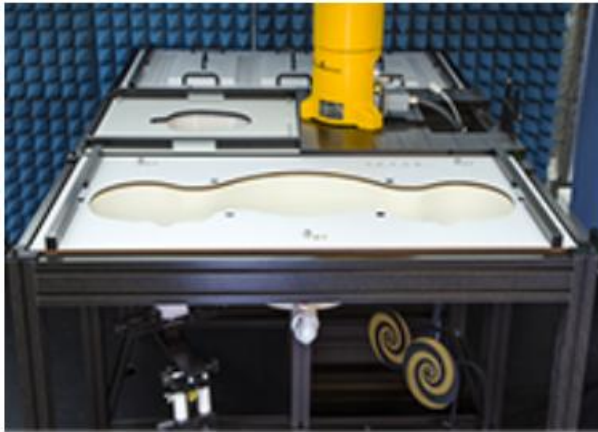
For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left hand
- Right hand
- Flat phantom



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI4 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° .

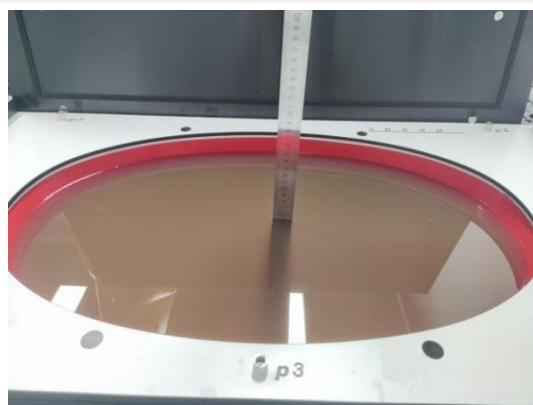
4.2.7 Simulating Liquid

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%.

Head Liquid Depth



Body Liquid Depth



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	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

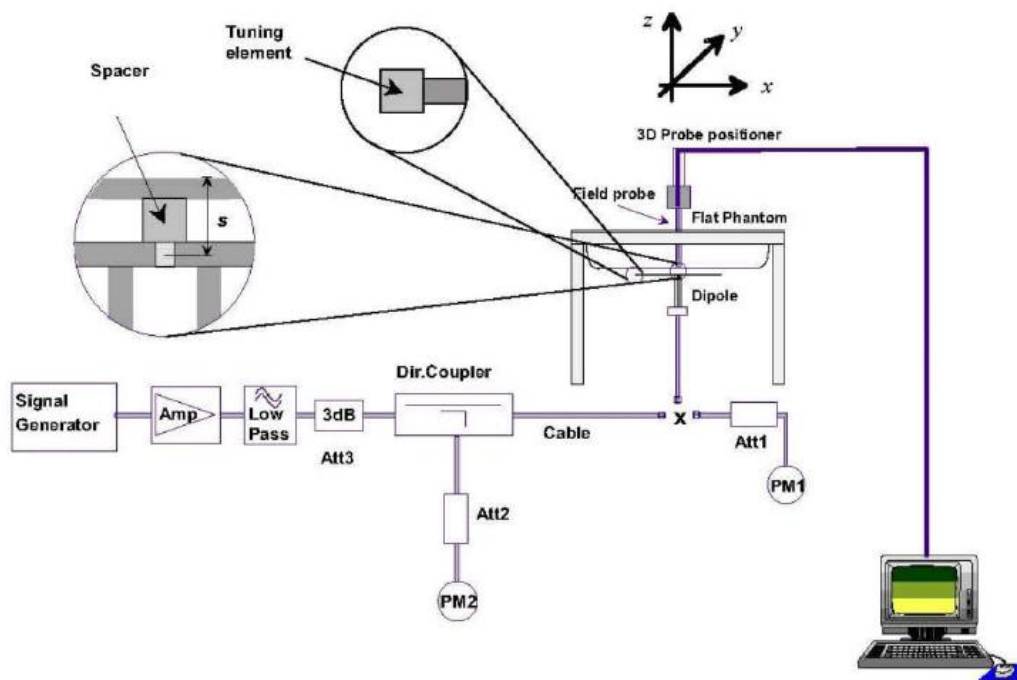
5 SYSTEM VERIFICATION

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 Tablet Exposure Condition

This DUT was tested in three different positions. They are front side back side and top edge in these positions, the surface of DUT is touching with phantom 0mm.

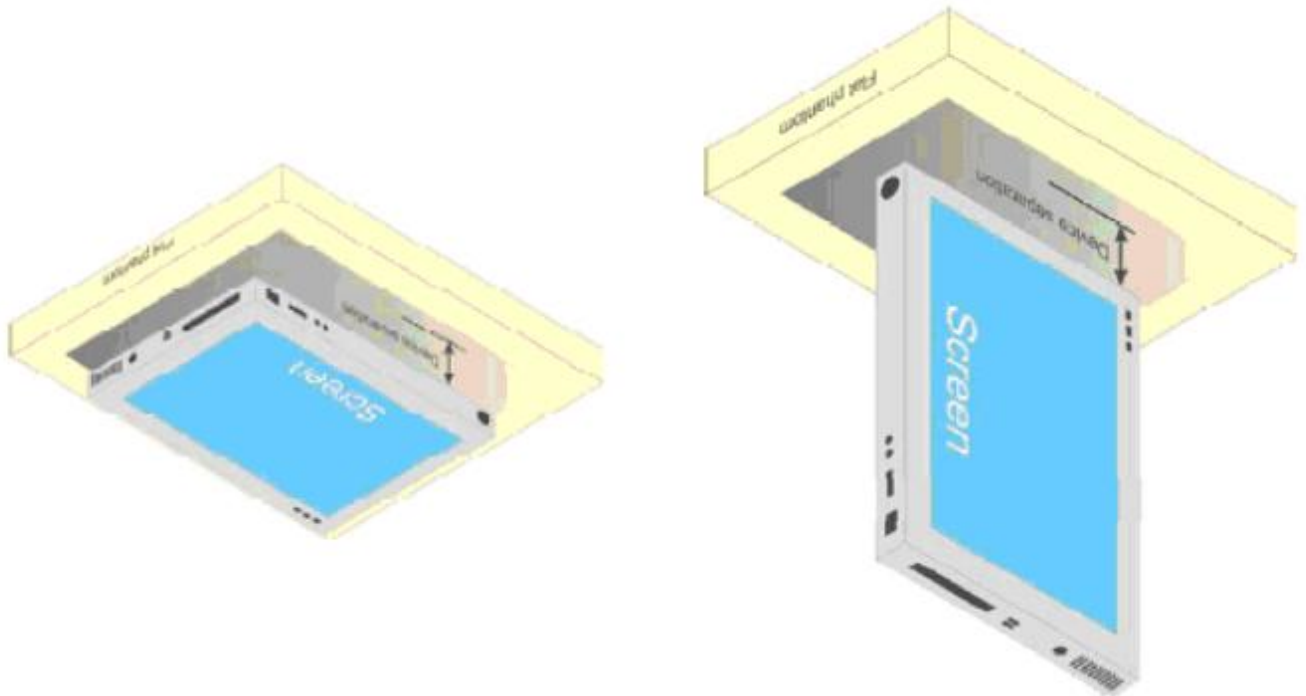
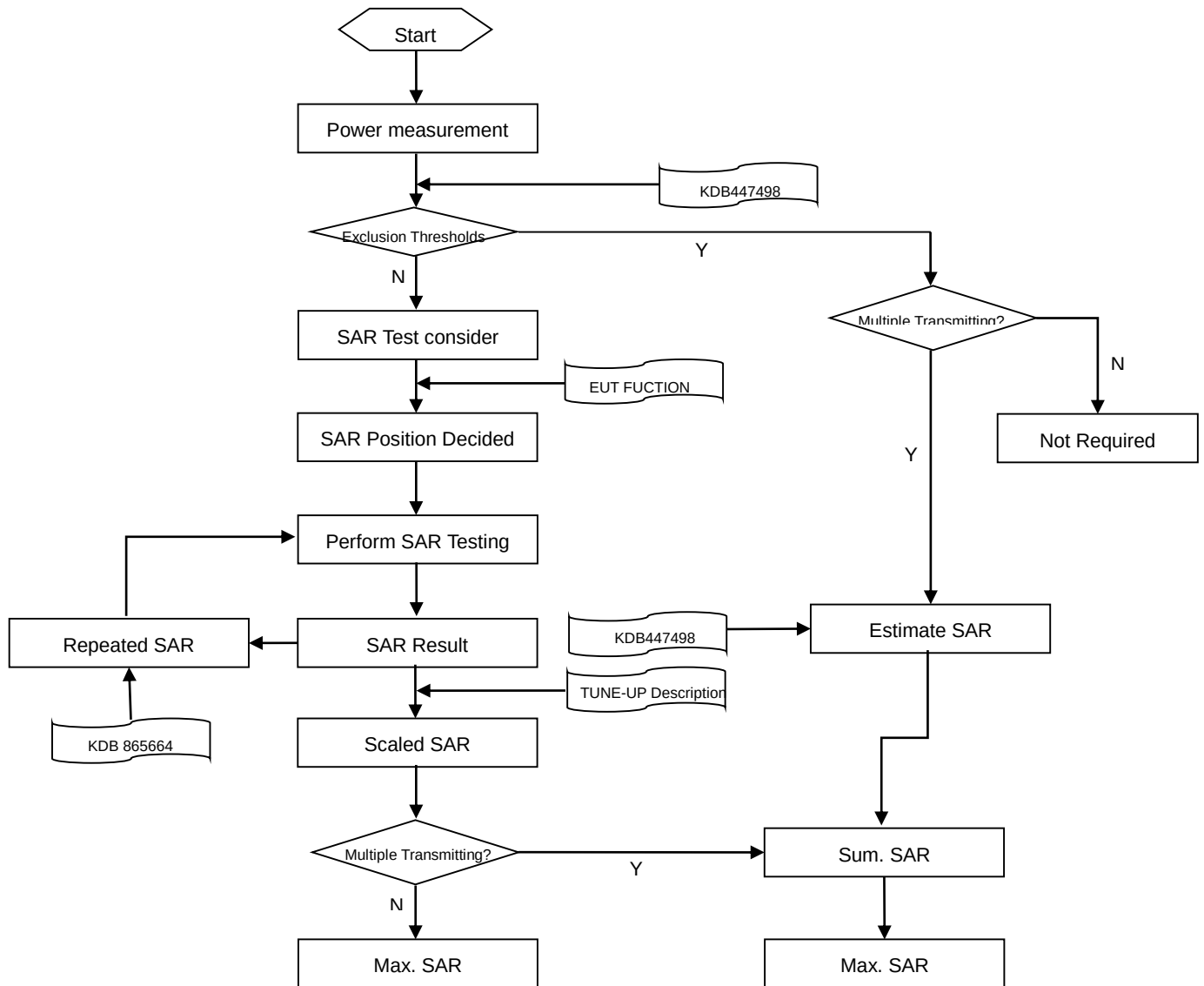


Fig Illustration for Lap-touching Position

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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

8.1 Power Reduction List

- 1.The device employs proximity sensors that detect the presence of the user's body and Product Specific of the device. When these conditions are detected, Body and Limb reduced power will be active.
- 2.When the proximity sensor invalid, the power is reduced to the corresponding Minimum power scenario.

WIFI&BT Reduced Power Level Table

Sensor state	Antenna	Bands	Position
On	ANT1&2&3	WIFI2.4G/5G/6G/BT	Front Side/Back Side/Top Edge
Off	ANT1&2&3	WIFI2.4G/5G/6G/BT	Front Side/Back Side/Top Edge

WIFI&BT Antenna Power Table

Mode	Antenna	Sensor off	Sensor on	Antenna	Sensor off	Sensor on	Antenna	Sensor off	Sensor on
BT DH5	ANT1	/	/	ANT3	14.00	8.00	ANT MIMO	/	/
BT 2DH5	ANT1	/	/	ANT3	10.00	8.00	ANT MIMO	/	/
BT 3DH5	ANT1	/	/	ANT3	10.00	8.00	ANT MIMO	/	/
BT BLE 1M	ANT1	/	/	ANT3	3.00	3.00	ANT MIMO	/	/
BT BLE 2M	ANT1	/	/	ANT3	3.00	3.00	ANT MIMO	/	/
2.4G WIFI 802.11b	ANT1	19.50	9.00	ANT3	19.50	9.00	ANT MIMO	22.50	12.00
2.4G WIFI 802.11g	ANT1	18.50	9.00	ANT3	18.50	9.00	ANT MIMO	21.50	12.00
2.4G WIFI 802.11n20	ANT1	18.50	9.00	ANT3	18.50	9.00	ANT MIMO	21.50	12.00
2.4G WIFI 802.11ax20	ANT1	17.00	9.00	ANT3	17.00	9.00	ANT MIMO	20.00	12.00
5.2&5.3G WIFI 802.11a	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11n20	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11n40	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11ac20	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11ac40	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11ac80	ANT2	15.50	6.00	ANT3	15.50	6.00	ANT MIMO	18.50	9.00
5.3G WIFI 802.11ac160	ANT2	15.50	6.00	ANT3	15.50	6.00	ANT MIMO	18.50	9.00
5.2&5.3G WIFI 802.11ax20	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11ax40	ANT2	16.00	6.50	ANT3	16.00	6.50	ANT MIMO	19.00	9.50
5.2&5.3G WIFI 802.11ax80	ANT2	15.50	6.00	ANT3	15.50	6.00	ANT MIMO	18.50	9.00
5.3G WIFI 802.11ax160	ANT2	15.50	6.00	ANT3	15.50	6.00	ANT MIMO	18.50	9.00
5.6G WIFI 802.11a	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11n20	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11n40	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11ac20	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11ac40	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11ac80	ANT2	15.00	5.50	ANT3	15.00	5.50	ANT MIMO	18.00	8.50
5.6G WIFI 802.11ac160	ANT2	15.00	5.50	ANT3	15.00	5.50	ANT MIMO	18.00	8.50
5.6G WIFI 802.11ax20	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11ax40	ANT2	16.00	6.00	ANT3	16.00	6.00	ANT MIMO	19.00	9.00
5.6G WIFI 802.11ax80	ANT2	15.00	5.50	ANT3	15.00	5.50	ANT MIMO	18.00	8.50
5.6G WIFI 802.11ax160	ANT2	15.00	5.50	ANT3	15.00	5.50	ANT MIMO	18.00	8.50
5.8G WIFI 802.11a	ANT2	16.00	6.00	ANT3	13.00	12.50	ANT MIMO	19.00	9.00
5.8G WIFI 802.11n20	ANT2	16.00	6.00	ANT3	13.00	12.50	ANT MIMO	19.00	9.00
5.8G WIFI 802.11n40	ANT2	16.00	6.00	ANT3	13.00	12.50	ANT MIMO	19.00	9.00
5.8G WIFI 802.11ac20	ANT2	16.00	6.00	ANT3	13.00	12.50	ANT MIMO	19.00	9.00
5.8G WIFI 802.11ac40	ANT2	16.00	6.00	ANT3	13.00	12.50	ANT MIMO	19.00	9.00
5.8G WIFI 802.11ac80	ANT2	15.00	5.50	ANT3	13.00	12.50	ANT MIMO	18.00	8.50
5.8G WIFI 802.11ax20	ANT2	16.00	6.00	ANT3	12.50	12.50	ANT MIMO	19.00	9.00

5.8G WIFI 802.11ax40	ANT2	16.00	6.00	ANT3	13.00	12.50	ANT MIMO	19.00	9.00
5.8G WIFI 802.11ax80	ANT2	15.00	5.50	ANT3	13.00	12.50	ANT MIMO	18.00	8.50
6G WIFI 802.11ax20	ANT2	8.50	5.50	ANT3	8.50	5.50	ANT MIMO	11.50	8.50
6G WIFI 802.11ax40	ANT2	9.00	5.50	ANT3	9.00	5.50	ANT MIMO	12.00	8.50
6G WIFI 802.11ax80	ANT2	11.50	5.50	ANT3	11.50	5.50	ANT MIMO	14.50	8.50
6G WIFI 802.11ax160	ANT2	11.00	5.00	ANT3	11.00	5.00	ANT MIMO	14.00	8.00

8.2 WIFI

Please refer the document “Ti-CC26060266-AP.pdf”.

8.3 Bluetooth

Please refer the document “Ti-CC26060266-AP.pdf”.

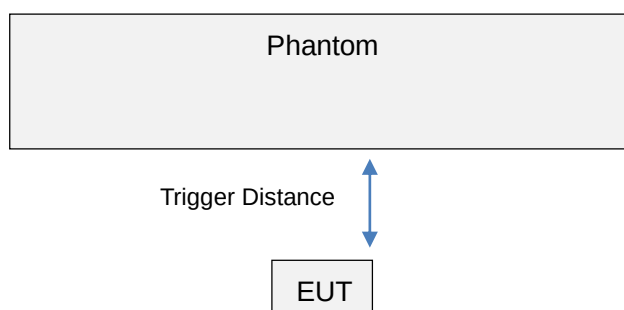
9 PROXIMITY SENSOR TRIGGERING TEST

9.1 Procedures for determining proximity sensor distance

The device uses one proximity sensors to reduce the maximum output power in selected wireless mode and operating configurations to ensure SAR compliance. The sensor implementation can identify and facilitate triggering different max power levels for different scenarios including the device held by hand(Extremity) and different exposure test positions test positions when the device is closed to a user's body.

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment. Note that while sensor is failed and it sets the output power to the lowest one in the sensor trigger state ,to make sure the SAR requirements can still be satisfied.

9.1.1 proximity sensor



EUT moving toward Phantom and EUT moving away from Phantom

Distance in mm	1~11	12	13	14	15	16	17	18	19	20	21
Front Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Top Edge	On	On	On	On	On	Off	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for ANT1&2&3

To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for EUT moving toward the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

ANT1&2&3 of proximity sensor

EUT Sides	Additional SAR test Distance in mm
Front Side	14
Back Side	14
Top Edge	14

9.2 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor triggering was determined by positioning each EUT edge that contains a transmitting ANT1&2&3, perpendicular to the flat phantom, at 10 mm separation for the Top edge. Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

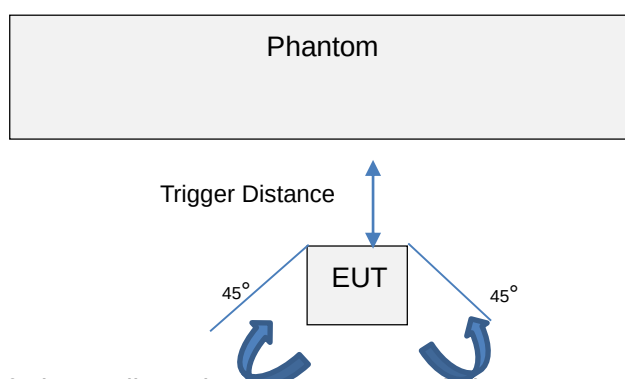


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering(Top edge)

Antenna	Posltion	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
ANT1	Top Edge	15mm	on	on	on	on	on	on	on	on	on	on	on	
ANT2	Top Edge	15mm	on	on	on	on	on	on	on	on	on	on	on	
ANT3	Top Edge	15mm	on	on	on	on	on	on	on	on	on	on	on	

10 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document "Ti-CC26060266-AI EUT internal photo.pdf.

10.1 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

10.1.1 SAR Test Consideration

This host is a Magic Pro 13, under normal use the RF exposure scenarios are shown in the table below:

RF Exposure Position	RF Exposure Scenarios
Front Side	Body
Back Side	Body
Left Edge	Body
Right Edge	Body
Top Edge	Body

Body RF exposure scenarios

ANT3:

Test Position Configurations	Mode	Bluetooth	2.4G	5.2&5.3G	5.6G	5.8G
Calculated Frequency (MHz)		2480	2462	5320	5710	5825
Front Side	Distance to User (mm)	3	3	3	3	3
	Max. Peak Power (dBm)	8.00	9.00	6.50	6.00	6.00
	Max. Peak Power (mW)	6.31	7.94	4.47	3.98	3.98
	Exclusion Threshold (mW)	1.03	1.03	0.51	0.48	0.47
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Back Side	Distance to User (mm)	2	2	2	2	2
	Max. Peak Power (dBm)	8.00	9.00	6.50	6.00	6.00
	Max. Peak Power (mW)	6.31	7.94	4.47	3.98	3.98
	Exclusion Threshold (mW)	1.03	1.03	0.51	0.48	0.47
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Left Side	Distance to User (mm)	212.2	212.2	212.2	212.2	212.2
	Max. Peak Power (dBm)	14.00	19.50	16.00	16.00	16.00
	Max. Peak Power (mW)	25.12	89.13	39.81	39.81	39.81
	Exclusion Threshold (mW)	3425.34	3425.02	3459.12	3462.27	3463.16
	SAR Test Required	No	No	No	No	No
Right Side	Distance to User (mm)	62.2	62.2	62.2	62.2	62.2
	Max. Peak Power (dBm)	14.00	19.50	16.00	16.00	16.00
	Max. Peak Power (mW)	25.12	89.13	39.81	39.81	39.81
	Exclusion Threshold (mW)	3425.34	3425.02	3459.12	3462.27	3463.16
	SAR Test Required	No	No	No	No	No
Top Side	Distance to User (mm)	0	0	0	0	0
	Max. Peak Power (dBm)	0.00	0.00	0.00	0.00	0.00
	Max. Peak Power (mW)	1.03	1.03	0.51	0.48	0.47
	Exclusion Threshold (mW)	6.31	7.94	4.47	3.98	3.98
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Bottom Side	Distance to User (mm)	191	191	191	191	191
	Max. Peak Power (dBm)	14.00	19.50	16.00	16.00	16.00
	Max. Peak Power (mW)	25.12	89.13	39.81	39.81	39.81

	Exclusion Threshold (mW)	2803.06	2803.26	2781.75	2779.78	2779.23
	SAR Test Required	No	No	No	No	No

ANT2

Test Position Configurations	Mode	5.2&5.3G	5.6G	5.8G
Calculated Frequency (MHz)		5320	5710	5825
Front Side	Distance to User (mm)	3	3	3
	Max. Peak Power (dBm)	6.50	6.00	6.00
	Max. Peak Power (mW)	4.47	3.98	3.98
	Exclusion Threshold (mW)	0.51	0.48	0.47
	SAR Test Required	Yes	Yes	Yes
Back Side	Distance to User (mm)	2	2	2
	Max. Peak Power (dBm)	6.50	6.00	6.00
	Max. Peak Power (mW)	4.47	3.98	3.98
	Exclusion Threshold (mW)	0.51	0.48	0.47
	SAR Test Required	Yes	Yes	Yes
Left Side	Distance to User (mm)	185.2	185.2	185.2
	Max. Peak Power (dBm)	16.00	16.00	16.00
	Max. Peak Power (mW)	39.81	39.81	39.81
	Exclusion Threshold (mW)	3459.12	3462.27	3463.16
	SAR Test Required	No	No	No
Right Side	Distance to User (mm)	99.9	99.9	99.9
	Max. Peak Power (dBm)	16.00	16.00	16.00
	Max. Peak Power (mW)	39.81	39.81	39.81
	Exclusion Threshold (mW)	3459.12	3462.27	3463.16
	SAR Test Required	No	No	No
Top Side	Distance to User (mm)	0	0	0
	Max. Peak Power (dBm)	6.50	6.00	6.00
	Max. Peak Power (mW)	4.47	3.98	3.98
	Exclusion Threshold (mW)	0	0	0
	SAR Test Required	Yes	Yes	Yes
Bottom Side	Distance to User (mm)	191	191	191
	Max. Peak Power (dBm)	16.00	16.00	16.00
	Max. Peak Power (mW)	39.81	39.81	39.81
	Exclusion Threshold (mW)	2781.75	2779.78	2779.23
	SAR Test Required	No	No	No

ANT1

Test Position Configurations	Mode	2.4G
Calculated Frequency (MHz)		2462
Front Side	Distance to User (mm)	3
	Max. Peak Power (dBm)	9.00

	Max. Peak Power (mW)	7.94
	Exclusion Threshold (mW)	1.03
	SAR Test Required	Yes
Back Side	Distance to User (mm)	2
	Max. Peak Power (dBm)	9.00
	Max. Peak Power (mW)	7.94
	Exclusion Threshold (mW)	1.03
	SAR Test Required	Yes
Left Side	Distance to User (mm)	101.02
	Max. Peak Power (dBm)	19.50
	Max. Peak Power (mW)	89.13
	Exclusion Threshold (mW)	834.04
	SAR Test Required	No
Right Side	Distance to User (mm)	101.02
	Max. Peak Power (dBm)	19.50
	Max. Peak Power (mW)	89.13
	Exclusion Threshold (mW)	834.04
	SAR Test Required	No
Top Side	Distance to User (mm)	0
	Max. Peak Power (dBm)	9.00
	Max. Peak Power (mW)	7.94
	Exclusion Threshold (mW)	0.00
	SAR Test Required	Yes
Bottom Side	Distance to User (mm)	191
	Max. Peak Power (dBm)	19.50
	Max. Peak Power (mW)	89.13
	Exclusion Threshold (mW)	834.04
	SAR Test Required	No

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.
8. For Limb SAR, SAR test exemption considered by applying a factor of 2.5 to the applicable power level thresholds.

11 TEST RESULT

Note: Refer to ANNEX C for the detailed test data for each test configuration.

11.1 Bluetooth

Antenna	Band	Mode	Sensor	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/ kg)	Meas. Power(d Bm)	Max. tune- power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Mea s. No.
Body																
ANT3	Bluetooth	DH5	On	Front Side	0	39	2441	0.10	0.176	7.47	8.00	1.130	76.60	1.305	0.260	/
ANT3	Bluetooth	DH5	On	Back Side	0	39	2441	0.13	0.163	7.47	8.00	1.130	76.60	1.305	0.240	/
ANT3	Bluetooth	DH5	On	Top Edge	0	39	2441	-0.03	0.290	7.47	8.00	1.130	76.60	1.305	0.428	1#
ANT3	Bluetooth	DH5	On	Top Edge	0	0	2402	-0.02	0.231	7.35	8.00	1.161	76.60	1.305	0.350	/
ANT3	Bluetooth	DH5	On	Top Edge	0	78	2480	0.03	0.211	7.38	8.00	1.153	76.60	1.305	0.317	/
Sensor N-1																
ANT3	Bluetooth	DH5	Off	Front Side	14	39	2441	0.06	0.075	12.99	14.00	1.262	76.60	1.305	0.124	/
ANT3	Bluetooth	DH5	Off	Back Side	14	39	2441	0.09	0.055	12.99	14.00	1.262	76.60	1.305	0.091	/
ANT3	Bluetooth	DH5	Off	Top Edge	14	39	2441	0.06	0.134	12.99	14.00	1.262	76.60	1.305	0.221	/
ANT3	Bluetooth	DH5	Off	Top Edge	14	0	2402	0.09	0.106	12.62	14.00	1.374	76.60	1.305	0.190	/
ANT3	Bluetooth	DH5	Off	Top Edge	14	78	2480	-0.13	0.113	12.00	13.50	1.413	76.60	1.305	0.208	/

11.2WIFI

WIFI 2.4GHz																
Antenna	Band	Mode	Sensor	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/ kg)	Meas. Power(d Bm)	Max. tune- power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Facto r	1g Scale d SAR (W/kg)	Meas No.
Body																
ANT3	2.4G	802.11b	On	Front Side	0	6	2437	-0.04	0.310	7.18	9.00	1.521	99.52	1.005	0.474	/
ANT3	2.4G	802.11b	On	Back Side	0	6	2437	0.13	0.280	7.18	9.00	1.521	99.52	1.005	0.428	/
ANT3	2.4G	802.11b	On	Top Edge	0	6	2437	-0.10	0.431	7.18	9.00	1.521	99.52	1.005	0.659	/
ANT3	2.4G	802.11b	On	Top Edge	0	1	2412	0.07	0.453	7.14	9.00	1.535	99.52	1.005	0.699	/
ANT3	2.4G	802.11b	On	Top Edge	0	11	2462	0.10	0.399	7.17	9.00	1.524	99.52	1.005	0.611	/
ANT1	2.4G	802.11b	On	Front Side	0	6	2437	0.01	0.135	7.48	9.00	1.419	99.52	1.005	0.193	/
ANT1	2.4G	802.11b	On	Back Side	0	6	2437	-0.07	0.206	7.48	9.00	1.419	99.52	1.005	0.294	/
ANT1	2.4G	802.11b	On	Top Edge	0	6	2437	0.13	0.109	7.48	9.00	1.419	99.52	1.005	0.155	/
ANT1	2.4G	802.11b	On	Back Side	0	1	2412	-0.01	0.140	7.27	9.00	1.489	99.52	1.005	0.210	/
ANT1	2.4G	802.11b	On	Back Side	0	11	2462	-0.15	0.165	7.26	9.00	1.493	99.52	1.005	0.248	/
MIMO	2.4G	802.11b	On	Front Side	0	6	2437	0.04	0.430	10.34	12.00	1.466	99.52	1.005	0.634	/
MIMO	2.4G	802.11b	On	Back Side	0	6	2437	0.02	0.388	10.34	12.00	1.466	99.52	1.005	0.572	/
MIMO	2.4G	802.11b	On	Top Edge	0	6	2437	0.00	0.641	10.34	12.00	1.466	99.52	1.005	0.944	2#
MIMO	2.4G	802.11b	On	Top Edge	0	1	2412	-0.07	0.615	10.22	12.00	1.507	99.52	1.005	0.931	/
MIMO	2.4G	802.11b	On	Top Edge	0	11	2462	0.15	0.609	10.23	12.00	1.503	99.52	1.005	0.920	/
Sensor-N-1																
ANT3	2.4G	802.11b	Off	Front Side	14	11	2462	0.13	0.221	18.96	19.50	1.132	99.52	1.005	0.251	/
ANT3	2.4G	802.11b	Off	Back Side	14	11	2462	0.01	0.256	18.96	19.50	1.132	99.52	1.005	0.291	/
ANT3	2.4G	802.11b	Off	Top Edge	14	11	2462	0.08	0.249	18.96	19.50	1.132	99.52	1.005	0.283	/
ANT3	2.4G	802.11b	Off	Top Edge	14	1	2412	-0.08	0.287	18.60	19.50	1.230	99.52	1.005	0.355	/
ANT3	2.4G	802.11b	Off	Top Edge	14	6	2437	-0.03	0.281	18.94	19.50	1.138	99.52	1.005	0.321	/
ANT1	2.4G	802.11b	Off	Front Side	14	11	2462	-0.05	0.195	19.29	19.50	1.050	99.52	1.005	0.206	/
ANT1	2.4G	802.11b	Off	Back Side	14	11	2462	0.11	0.196	19.29	19.50	1.050	99.52	1.005	0.207	/
ANT1	2.4G	802.11b	Off	Top Edge	14	11	2462	-0.11	0.197	19.29	19.50	1.050	99.52	1.005	0.208	/
ANT1	2.4G	802.11b	Off	Top Edge	14	1	2412	-0.07	0.233	18.93	19.50	1.140	99.52	1.005	0.267	/
ANT1	2.4G	802.11b	Off	Top Edge	14	6	2437	-0.04	0.281	19.05	19.50	1.109	99.52	1.005	0.313	/
MIMO	2.4G	802.11b	Off	Front Side	14	11	2462	-0.04	0.366	22.14	22.50	1.086	99.52	1.005	0.399	/
MIMO	2.4G	802.11b	Off	Back Side	14	11	2462	0.04	0.421	22.14	22.50	1.086	99.52	1.005	0.459	/
MIMO	2.4G	802.11b	Off	Top Edge	14	11	2462	-0.04	0.507	22.14	22.50	1.086	99.52	1.005	0.553	/
MIMO	2.4G	802.11b	Off	Top Edge	14	1	2412	0.15	0.572	21.78	22.50	1.180	99.52	1.005	0.678	/
MIMO	2.4G	802.11b	Off	Top Edge	14	6	2437	0.01	0.509	22.01	22.50	1.119	99.52	1.005	0.572	/
WIFI 5GHz																

Antenna	Band	Mode	Sensor	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/ kg)	Meas. Power(d Bm)	Max. tune- power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scale d SAR (W/kg)	Meas No.
Body																
ANT3	5.3G	802.11n40	On	Front Side	0	54	5270	0.04	0.307	4.77	6.50	1.489	93.70	1.067	0.488	/
ANT3	5.3G	802.11n40	On	Back Side	0	54	5270	-0.14	0.159	4.77	6.50	1.489	93.70	1.067	0.253	/
ANT3	5.3G	802.11n40	On	Top Edge	0	54	5270	0.03	0.458	4.77	6.50	1.489	93.70	1.067	0.728	/
ANT3	5.3G	802.11n40	On	Top Edge	0	62	5310	-0.14	0.517	4.62	6.50	1.542	93.70	1.067	0.851	/
ANT2	5.3G	802.11n40	On	Front Side	0	54	5270	0.02	0.279	5.23	6.50	1.340	93.70	1.067	0.399	/
ANT2	5.3G	802.11n40	On	Back Side	0	54	5270	-0.11	0.167	5.23	6.50	1.340	93.70	1.067	0.239	/
ANT2	5.3G	802.11n40	On	Top Edge	0	54	5270	0.10	0.368	5.23	6.50	1.340	93.70	1.067	0.526	/
ANT2	5.3G	802.11n40	On	Top Edge	0	62	5310	0.09	0.396	5.10	6.50	1.380	93.70	1.067	0.583	/
MIMO	5.3G	802.11n40	On	Front Side	0	54	5270	-0.10	0.434	8.02	9.50	1.406	93.70	1.067	0.651	/
MIMO	5.3G	802.11n40	On	Back Side	0	54	5270	-0.01	0.308	8.02	9.50	1.406	93.70	1.067	0.462	/
MIMO	5.3G	802.11n40	On	Top Edge	0	54	5270	-0.04	0.663	8.02	9.50	1.406	93.70	1.067	0.995	3#
MIMO	5.3G	802.11n40	On	Top Edge	0	62	5310	-0.10	0.560	7.88	9.50	1.452	93.70	1.067	0.868	/
ANT3	5.6G	802.11n40	On	Front Side	0	118	5590	-0.10	0.217	5.16	6.00	1.213	93.70	1.067	0.281	/
ANT3	5.6G	802.11n40	On	Back Side	0	118	5590	-0.03	0.153	5.16	6.00	1.213	93.70	1.067	0.198	/
ANT3	5.6G	802.11n40	On	Top Edge	0	118	5590	0.11	0.348	5.16	6.00	1.213	93.70	1.067	0.450	/
ANT3	5.6G	802.11n40	On	Top Edge	0	102	5510	0.08	0.388	5.14	6.00	1.219	93.70	1.067	0.505	/
ANT3	5.6G	802.11n40	On	Top Edge	0	134	5670	0.14	0.371	5.11	6.00	1.227	93.70	1.067	0.486	/
ANT2	5.6G	802.11n40	On	Front Side	0	118	5590	-0.15	0.402	4.33	6.00	1.469	93.70	1.067	0.630	/
ANT2	5.6G	802.11n40	On	Back Side	0	118	5590	0.04	0.232	4.33	6.00	1.469	93.70	1.067	0.364	/
ANT2	5.6G	802.11n40	On	Top Edge	0	118	5590	0.05	0.511	4.33	6.00	1.469	93.70	1.067	0.801	/
ANT2	5.6G	802.11n40	On	Top Edge	0	102	5510	-0.13	0.465	4.32	6.00	1.472	93.70	1.067	0.730	/
ANT2	5.6G	802.11n40	On	Top Edge	0	134	5670	0.13	0.471	4.18	6.00	1.521	93.70	1.067	0.764	/
MIMO	5.6G	802.11n40	On	Front Side	0	118	5590	0.14	0.465	7.78	9.00	1.324	93.70	1.067	0.657	/
MIMO	5.6G	802.11n40	On	Back Side	0	118	5590	0.15	0.271	7.78	9.00	1.324	93.70	1.067	0.383	/
MIMO	5.6G	802.11n40	On	Top Edge	0	118	5590	-0.05	0.661	7.78	9.00	1.324	93.70	1.067	0.934	4#
MIMO	5.6G	802.11n40	On	Top Edge	0	102	5510	-0.08	0.554	7.76	9.00	1.330	93.70	1.067	0.786	/
MIMO	5.6G	802.11n40	On	Top Edge	0	134	5670	-0.10	0.541	7.68	9.00	1.355	93.70	1.067	0.782	/
ANT3	5.8G	802.11n40	On	Front Side	0	159	5795	-0.08	0.305	4.84	6.00	1.306	93.70	1.067	0.425	/
ANT3	5.8G	802.11n40	On	Back Side	0	159	5795	-0.09	0.171	4.84	6.00	1.306	93.70	1.067	0.238	/
ANT3	5.8G	802.11n40	On	Top Edge	0	159	5795	-0.15	0.477	4.84	6.00	1.306	93.70	1.067	0.665	/
ANT3	5.8G	802.11n40	On	Top Edge	0	151	5755	0.14	0.453	4.83	6.00	1.309	93.70	1.067	0.633	/
ANT2	5.8G	802.11n40	On	Front Side	0	159	5795	0.10	0.349	4.78	6.00	1.324	93.70	1.067	0.493	/
ANT2	5.8G	802.11n40	On	Back Side	0	159	5795	-0.15	0.221	4.78	6.00	1.324	93.70	1.067	0.312	/
ANT2	5.8G	802.11n40	On	Top Edge	0	159	5795	0.11	0.512	4.78	6.00	1.324	93.70	1.067	0.723	/
ANT2	5.8G	802.11n40	On	Top Edge	0	151	5755	-0.06	0.523	4.31	6.00	1.476	93.70	1.067	0.824	/
MIMO	5.8G	802.11n40	On	Front Side	0	159	5795	-0.06	0.363	7.82	9.00	1.312	93.70	1.067	0.508	/
MIMO	5.8G	802.11n40	On	Back Side	0	159	5795	-0.13	0.228	7.82	9.00	1.312	93.70	1.067	0.319	/
MIMO	5.8G	802.11n40	On	Top Edge	0	159	5795	0.07	0.611	7.82	9.00	1.312	93.70	1.067	0.855	/

MIMO	5.8G	802.11n40	On	Top Edge	0	151	5755	0.00	0.663	7.59	9.00	1.384	93.70	1.067	0.979	5#
Sensor-N-1																
ANT3	5.3G	802.11n40	Off	Front Side	14	62	5310	0.03	0.200	14.78	16.00	1.324	93.70	1.067	0.283	/
ANT3	5.3G	802.11n40	Off	Back Side	14	62	5310	-0.14	0.147	14.78	16.00	1.324	93.70	1.067	0.208	/
ANT3	5.3G	802.11n40	Off	Top Edge	14	62	5310	0.15	0.621	14.78	16.00	1.324	93.70	1.067	0.877	/
ANT3	5.3G	802.11n40	Off	Top Edge	14	54	5270	-0.06	0.631	14.73	16.00	1.340	93.70	1.067	0.902	/
ANT2	5.3G	802.11n40	Off	Front Side	14	54	5270	-0.03	0.170	15.93	16.00	1.016	93.70	1.067	0.184	/
ANT2	5.3G	802.11n40	Off	Back Side	14	54	5270	0.06	0.142	15.93	16.00	1.016	93.70	1.067	0.154	/
ANT2	5.3G	802.11n40	Off	Top Edge	14	54	5270	-0.12	0.560	15.93	16.00	1.016	93.70	1.067	0.607	/
ANT2	5.3G	802.11n40	Off	Top Edge	14	62	5310	0.03	0.541	15.39	16.00	1.151	93.70	1.067	0.664	/
MIMO	5.3G	802.11n40	Off	Front Side	14	54	5270	0.02	0.345	18.38	19.00	1.153	93.70	1.067	0.424	/
MIMO	5.3G	802.11n40	Off	Back Side	14	54	5270	0.10	0.264	18.38	19.00	1.153	93.70	1.067	0.325	/
MIMO	5.3G	802.11n40	Off	Top Edge	14	54	5270	0.07	0.652	18.38	19.00	1.153	93.70	1.067	0.802	/
MIMO	5.3G	802.11n40	Off	Top Edge	14	62	5310	-0.08	0.619	18.11	19.00	1.227	93.70	1.067	0.810	/
ANT3	5.6G	802.11n40	Off	Front Side	14	134	5670	0.10	0.148	15.92	16.00	1.019	93.70	1.067	0.161	/
ANT3	5.6G	802.11n40	Off	Back Side	14	134	5670	0.03	0.128	15.92	16.00	1.019	93.70	1.067	0.139	/
ANT3	5.6G	802.11n40	Off	Top Edge	14	134	5670	0.03	0.251	15.92	16.00	1.019	93.70	1.067	0.273	/
ANT3	5.6G	802.11n40	Off	Top Edge	14	102	5510	-0.11	0.237	15.77	16.00	1.054	93.70	1.067	0.267	/
ANT3	5.6G	802.11n40	Off	Top Edge	14	118	5590	0.07	0.229	15.82	16.00	1.042	93.70	1.067	0.255	/
ANT2	5.6G	802.11n40	Off	Front Side	14	102	5510	0.10	0.217	14.67	16.00	1.358	93.70	1.067	0.314	/
ANT2	5.6G	802.11n40	Off	Back Side	14	102	5510	-0.07	0.191	14.67	16.00	1.358	93.70	1.067	0.277	/
ANT2	5.6G	802.11n40	Off	Top Edge	14	102	5510	-0.09	0.379	14.67	16.00	1.358	93.70	1.067	0.549	/
ANT2	5.6G	802.11n40	Off	Top Edge	14	118	5590	-0.14	0.361	14.08	16.00	1.556	93.70	1.067	0.599	/
ANT2	5.6G	802.11n40	Off	Top Edge	14	134	5670	0.03	0.339	14.31	16.00	1.476	93.70	1.067	0.534	/
MIMO	5.6G	802.11n40	Off	Front Side	14	102	5510	-0.01	0.328	18.27	19.00	1.183	93.70	1.067	0.414	/
MIMO	5.6G	802.11n40	Off	Back Side	14	102	5510	0.08	0.265	18.27	19.00	1.183	93.70	1.067	0.334	/
MIMO	5.6G	802.11n40	Off	Top Edge	14	102	5510	0.12	0.654	18.27	19.00	1.183	93.70	1.067	0.826	/
MIMO	5.6G	802.11n40	Off	Top Edge	14	118	5590	-0.12	0.646	18.05	19.00	1.245	93.70	1.067	0.858	/
MIMO	5.6G	802.11n40	Off	Top Edge	14	134	5670	0.01	0.651	18.20	19.00	1.202	93.70	1.067	0.835	/
ANT3	5.8G	802.11n40	Off	Front Side	14	159	5795	-0.07	0.340	15.36	16.00	1.159	93.70	1.067	0.420	/
ANT3	5.8G	802.11n40	Off	Back Side	14	159	5795	-0.04	0.305	15.36	16.00	1.159	93.70	1.067	0.377	/
ANT3	5.8G	802.11n40	Off	Top Edge	14	159	5795	0.15	0.520	15.36	16.00	1.159	93.70	1.067	0.643	/
ANT3	5.8G	802.11n40	Off	Top Edge	14	151	5755	-0.06	0.511	15.25	16.00	1.189	93.70	1.067	0.648	/
ANT2	5.8G	802.11n40	Off	Front Side	14	159	5795	-0.05	0.441	15.82	16.00	1.042	93.70	1.067	0.490	/
ANT2	5.8G	802.11n40	Off	Back Side	14	159	5795	0.10	0.344	15.82	16.00	1.042	93.70	1.067	0.382	/
ANT2	5.8G	802.11n40	Off	Top Edge	14	159	5795	-0.05	0.555	15.82	16.00	1.042	93.70	1.067	0.617	/
ANT2	5.8G	802.11n40	Off	Top Edge	14	151	5755	0.09	0.540	15.73	16.00	1.064	93.70	1.067	0.613	/
MIMO	5.8G	802.11n40	Off	Front Side	14	159	5795	0.15	0.465	18.61	19.00	1.094	93.70	1.067	0.543	/
MIMO	5.8G	802.11n40	Off	Back Side	14	159	5795	-0.11	0.443	18.61	19.00	1.094	93.70	1.067	0.517	/
MIMO	5.8G	802.11n40	Off	Top Edge	14	159	5795	0.12	0.651	18.61	19.00	1.094	93.70	1.067	0.760	/
MIMO	5.8G	802.11n40	Off	Top Edge	14	151	5755	-0.03	0.647	18.51	19.00	1.119	93.70	1.067	0.773	/

WIFI 6GHz

Antenna	Band	Mode	Sensor	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR(W /kg)	Meas. Power(dBm)	Max. tune- power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Measured APD4cm2 [W/m2]	Meas. uncertai nty Scaling Factor	Scaled APD [W/m2]	Me as. No
Body																			
ANT3	6G	802.11ax80	On	Front Side	0	39	6145	0.09	0.315	5.37	5.50	1.030	87.00	1.149	0.373	1.550	1.028	1.886	/
ANT3	6G	802.11ax80	On	Back Side	0	39	6145	0.01	0.137	5.37	5.50	1.030	87.00	1.149	0.162	0.656	1.028	0.798	/
ANT3	6G	11ax80(RU484)	Off	Left Edge	0	183	6865	0.15	0.051	10.39	11.50	1.291	87.00	1.149	0.076	0.271	1.028	0.413	/
ANT3	6G	11ax80(RU484)	Off	Right Edge	0	183	6865	0.07	0.055	10.39	11.50	1.291	87.00	1.149	0.082	0.295	1.028	0.450	/
ANT3	6G	802.11ax80	On	Top Edge	0	39	6145	0.12	0.391	5.37	5.50	1.030	87.00	1.149	0.463	1.950	1.028	2.372	/
ANT3	6G	11ax80(RU484)	Off	Bottom Edge	0	183	6865	0.08	0.050	10.39	11.50	1.291	87.00	1.149	0.074	0.241	1.028	0.367	/
ANT3	6G	802.11ax80	On	Top Edge	0	7	5985	0.09	0.404	5.29	5.50	1.050	87.00	1.149	0.487	2.080	1.028	2.580	/
ANT3	6G	802.11ax80	On	Top Edge	0	87	6385	0.08	0.411	4.50	5.50	1.259	87.00	1.149	0.595	2.110	1.028	3.138	/
ANT3	6G	802.11ax80	On	Top Edge	0	103	6465	0.12	0.374	4.89	5.50	1.151	87.00	1.149	0.495	1.950	1.028	2.651	/
ANT3	6G	802.11ax80	On	Top Edge	0	119	6545	0.07	0.321	5.10	5.50	1.096	87.00	1.149	0.404	1.650	1.028	2.136	/
ANT3	6G	802.11ax80	On	Top Edge	0	135	6625	0.19	0.408	4.93	5.50	1.140	87.00	1.149	0.534	2.110	1.028	2.841	/
ANT3	6G	802.11ax80	On	Top Edge	0	151	6705	0.08	0.334	5.23	5.50	1.064	87.00	1.149	0.408	1.730	1.028	2.174	/
ANT3	6G	802.11ax80	On	Top Edge	0	183	6865	0.05	0.316	5.17	5.50	1.079	87.00	1.149	0.392	1.630	1.028	2.077	/
ANT3	6G	802.11ax80	On	Top Edge	0	199	6945	0.05	0.370	4.84	5.50	1.164	87.00	1.149	0.495	1.890	1.028	2.599	/
ANT3	6G	802.11ax80	On	Top Edge	0	215	7025	0.02	0.299	5.22	5.50	1.067	87.00	1.149	0.367	1.550	1.028	1.953	/
ANT2	6G	802.11ax80	On	Front Side	0	39	6145	0.06	0.389	4.80	5.50	1.175	87.00	1.149	0.525	1.820	1.028	2.526	/
ANT2	6G	802.11ax80	On	Back Side	0	39	6145	0.19	0.287	4.80	5.50	1.175	87.00	1.149	0.387	1.430	1.028	1.985	/
ANT2	6G	11ax80(RU484)	Off	Left Edge	0	39	6145	0.06	0.059	10.63	11.50	1.222	87.00	1.149	0.083	0.311	1.028	0.449	/
ANT2	6G	11ax80(RU484)	Off	Right Edge	0	39	6145	0.03	0.048	10.63	11.50	1.222	87.00	1.149	0.067	0.265	1.028	0.382	/
ANT2	6G	802.11ax80	On	Top Edge	0	39	6145	0.12	0.545	4.80	5.50	1.175	87.00	1.149	0.736	2.810	1.028	3.900	/
ANT2	6G	11ax80(RU484)	Off	Bottom Edge	0	39	6145	0.04	0.042	10.63	11.50	1.222	87.00	1.149	0.059	0.206	1.028	0.297	/
ANT2	6G	802.11ax80	On	Top Edge	0	7	5985	0.03	0.543	4.37	5.50	1.297	87.00	1.149	0.809	2.720	1.028	4.167	/
ANT2	6G	802.11ax80	On	Top Edge	0	87	6385	0.18	0.537	4.35	5.50	1.303	87.00	1.149	0.804	2.690	1.028	4.140	/
ANT2	6G	802.11ax80	On	Top Edge	0	103	6465	0.09	0.552	4.62	5.50	1.225	87.00	1.149	0.777	2.830	1.028	4.095	/
ANT2	6G	802.11ax80	On	Top Edge	0	119	6545	0.11	0.537	4.61	5.50	1.227	87.00	1.149	0.757	2.760	1.028	4.000	/
ANT2	6G	802.11ax80	On	Top Edge	0	135	6625	0.14	0.550	4.68	5.50	1.208	87.00	1.149	0.763	2.810	1.028	4.009	/
ANT2	6G	802.11ax80	On	Top Edge	0	151	6705	0.11	0.520	4.58	5.50	1.236	87.00	1.149	0.738	2.670	1.028	3.898	/
ANT2	6G	802.11ax80	On	Top Edge	0	183	6865	0.11	0.485	4.48	5.50	1.265	87.00	1.149	0.705	2.490	1.028	3.721	/
ANT2	6G	802.11ax80	On	Top Edge	0	199	6945	0.12	0.408	4.51	5.50	1.256	87.00	1.149	0.589	2.110	1.028	3.130	/
ANT2	6G	802.11ax80	On	Top Edge	0	215	7025	0.08	0.457	4.66	5.50	1.213	87.00	1.149	0.637	2.340	1.028	3.353	/
MIMO	6G	802.11ax80	On	Front Side	0	39	6145	0.17	0.504	8.10	8.50	1.096	87.00	1.149	0.635	2.450	1.028	3.172	/
MIMO	6G	802.11ax80	On	Back Side	0	39	6145	0.16	0.347	8.10	8.50	1.096	87.00	1.149	0.437	1.770	1.028	2.291	/
MIMO	6G	11ax80(RU484)	Off	Left Edge	0	183	6865	0.12	0.063	13.47	14.50	1.268	87.00	1.149	0.092	0.341	1.028	0.511	/
MIMO	6G	11ax80(RU484)	Off	Right Edge	0	183	6865	0.08	0.036	13.47	14.50	1.268	87.00	1.149	0.052	0.195	1.028	0.292	/
MIMO	6G	802.11ax80	On	Top Edge	0	39	6145	0.10	0.627	8.10	8.50	1.096	87.00	1.149	0.790	3.190	1.028	4.130	/

MIMO	6G	11ax80(RU484)	Off	Bottom Edge	0	183	6865	0.07	0.065	13.47	14.50	1.268	87.00	1.149	0.095	0.323	1.028	0.484	/
MIMO	6G	802.11ax80	On	Top Edge	0	7	5985	0.01	0.621	7.86	8.50	1.159	87.00	1.149	0.827	3.180	1.028	4.353	/
MIMO	6G	802.11ax80	On	Top Edge	0	87	6385	0.10	0.657	7.44	8.50	1.276	87.00	1.149	0.963	3.370	1.028	5.079	6#
MIMO	6G	802.11ax80	On	Top Edge	0	103	6465	0.03	0.551	7.77	8.50	1.183	87.00	1.149	0.749	2.780	1.028	3.885	/
MIMO	6G	802.11ax80	On	Top Edge	0	119	6545	0.13	0.504	7.87	8.50	1.156	87.00	1.149	0.669	2.550	1.028	3.482	/
MIMO	6G	802.11ax80	On	Top Edge	0	135	6625	0.03	0.496	7.82	8.50	1.169	87.00	1.149	0.666	2.470	1.028	3.411	/
MIMO	6G	802.11ax80	On	Top Edge	0	151	6705	0.03	0.475	7.93	8.50	1.140	87.00	1.149	0.622	2.390	1.028	3.218	/
MIMO	6G	802.11ax80	On	Top Edge	0	183	6865	0.07	0.541	7.85	8.50	1.161	87.00	1.149	0.722	2.720	1.028	3.730	/
MIMO	6G	802.11ax80	On	Top Edge	0	199	6945	0.08	0.463	7.69	8.50	1.205	87.00	1.149	0.641	2.320	1.028	3.302	/
MIMO	6G	802.11ax80	On	Top Edge	0	215	7025	0.07	0.511	7.96	8.50	1.132	87.00	1.149	0.665	2.630	1.028	3.517	/
SensorN-1																			
ANT3	6G	11ax80(RU484)	Off	Front Side	14	183	6865	0.09	0.080	10.39	11.50	1.291	87.00	1.149	0.119	0.521	1.028	0.794	/
ANT3	6G	11ax80(RU484)	Off	Back Side	14	183	6865	0.06	0.036	10.39	11.50	1.291	87.00	1.149	0.053	0.227	1.028	0.346	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	183	6865	0.07	0.096	10.39	11.50	1.291	87.00	1.149	0.142	0.602	1.028	0.918	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	7	5985	0.11	0.100	10.20	11.50	1.349	87.00	1.149	0.155	0.710	1.028	1.131	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	39	6145	0.10	0.092	10.21	11.50	1.346	87.00	1.149	0.142	0.728	1.028	1.157	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	87	6385	0.15	0.071	9.94	11.50	1.432	87.00	1.149	0.117	0.510	1.028	0.863	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	103	6465	0.04	0.047	9.90	11.00	1.288	87.00	1.149	0.070	0.362	1.028	0.551	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	119	6545	0.08	0.056	9.54	11.00	1.400	87.00	1.149	0.090	0.432	1.028	0.714	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	135	6625	0.15	0.043	9.20	10.00	1.202	87.00	1.149	0.059	0.327	1.028	0.464	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	151	6705	0.01	0.070	9.93	11.00	1.279	87.00	1.149	0.103	0.519	1.028	0.784	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	199	6945	0.14	0.065	10.30	11.00	1.175	87.00	1.149	0.088	0.471	1.028	0.654	/
ANT3	6G	11ax80(RU484)	Off	Top Edge	14	215	7025	0.01	0.072	10.08	11.00	1.236	87.00	1.149	0.102	0.466	1.028	0.680	/
ANT2	6G	11ax80(RU484)	Off	Front Side	14	183	6865	0.14	0.087	10.63	11.50	1.222	87.00	1.149	0.122	0.573	1.028	0.827	/
ANT2	6G	11ax80(RU484)	Off	Back Side	14	39	6145	0.04	0.093	10.63	11.50	1.222	87.00	1.149	0.131	0.471	1.028	0.680	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	39	6145	0.10	0.159	10.63	11.50	1.222	87.00	1.149	0.223	0.807	1.028	1.165	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	7	5985	0.11	0.167	10.57	11.50	1.239	87.00	1.149	0.238	1.130	1.028	1.654	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	87	6385	0.02	0.115	10.61	11.50	1.227	87.00	1.149	0.162	0.694	1.028	1.006	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	103	6465	0.14	0.098	10.60	11.00	1.096	87.00	1.149	0.123	0.610	1.028	0.790	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	119	6545	0.14	0.093	10.62	11.00	1.091	87.00	1.149	0.117	0.519	1.028	0.669	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	135	6625	0.11	0.083	9.22	10.00	1.197	87.00	1.149	0.114	0.506	1.028	0.715	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	151	6705	0.03	0.053	10.52	11.00	1.117	87.00	1.149	0.068	0.283	1.028	0.373	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	183	6865	0.14	0.069	10.52	11.50	1.253	87.00	1.149	0.099	0.371	1.028	0.549	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	199	6945	0.04	0.073	10.58	11.00	1.102	87.00	1.149	0.092	0.379	1.028	0.493	/
ANT2	6G	11ax80(RU484)	Off	Top Edge	14	215	7025	0.14	0.059	10.51	11.00	1.119	87.00	1.149	0.076	0.379	1.028	0.501	/
MIMO	6G	11ax80(RU484)	Off	Front Side	14	183	6865	0.04	0.112	13.47	14.50	1.268	87.00	1.149	0.163	0.595	1.028	0.891	/
MIMO	6G	11ax80(RU484)	Off	Back Side	14	183	6865	0.04	0.093	13.47	14.50	1.268	87.00	1.149	0.135	0.471	1.028	0.705	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	183	6865	0.10	0.159	13.47	14.50	1.268	87.00	1.149	0.232	0.807	1.028	1.209	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	7	5985	0.11	0.167	13.40	14.50	1.288	87.00	1.149	0.247	1.110	1.028	1.689	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	39	6145	0.02	0.115	13.44	14.50	1.276	87.00	1.149	0.169	0.694	1.028	1.046	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	87	6385	0.14	0.098	13.30	14.50	1.318	87.00	1.149	0.148	0.610	1.028	0.950	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	103	6465	0.14	0.093	13.27	14.00	1.183	87.00	1.149	0.126	0.519	1.028	0.725	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	119	6545	0.11	0.083	13.12	14.00	1.225	87.00	1.149	0.117	0.506	1.028	0.732	/

MIMO	6G	11ax80(RU484)	Off	Top Edge	14	135	6625	0.03	0.053	12.22	13.00	1.197	87.00	1.149	0.073	0.283	1.028	0.400	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	151	6705	0.14	0.069	13.25	14.00	1.189	87.00	1.149	0.094	0.371	1.028	0.521	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	199	6945	0.04	0.073	13.45	14.00	1.135	87.00	1.149	0.095	0.379	1.028	0.508	/
MIMO	6G	11ax80(RU484)	Off	Top Edge	14	215	7025	0.14	0.059	13.31	14.00	1.172	87.00	1.149	0.079	0.361	1.028	0.500	/

12 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 $0.663 < 0.80$ W/kg, repeated measurement is not required.

13 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.

13.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Tx Combination	Body
1	WIFI2.4G(ANT1)+Bluetooth(ANT3)	Yes
2	WIFI5G+Bluetooth	Yes
3	WIFI6G+Bluetooth	Yes
4	WIFI2.4G(ANT3)+WIFI5G(ANT2)	Yes
5	WIFI2.4G(ANT3)+WIFI6G(ANT2)	Yes

Note:

1. WiFi 2.4G(ANT3) and Bluetooth share the same antenna, and can't transmit simultaneously.
2. The maximum SAR summation is calculated based on the same configuration and test position.
- 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.

13.2 Body Simultaneous Transmission SAR Evaluation

State	Position	Stand alone SAR							SUM SAR				
		1	2	3	4	5	6	7					
		Bluetooth (ANT3)	WIFI2.4G (ANT1)	WIFI2.4G (ANT3)	WIFI5G.MAX (ANT2)	WIFI5G. MAX	WIFI6G.MAX (ANT2)	WIFI6G. MAX	Sum SAR (1+2)	Sum SAR (1+5)	Sum SAR (1+7)	Sum SAR (3+4)	Sum SAR (3+6)
Tablet	Front Side 0mm	0.260	0.193	0.474	0.630	0.657	0.525	0.635	0.453	0.917	0.895	1.104	0.999
Tablet	Back Side 0mm	0.240	0.294	0.428	0.364	0.462	0.387	0.437	0.534	0.702	0.677	0.792	0.815
Tablet	Left Edge 0mm	0.000	0.000	0.000	0.000	0.000	0.083	0.092	0.000	0.000	0.092	0.000	0.083
Tablet	Right Edge 0mm	0.000	0.000	0.000	0.000	0.000	0.067	0.082	0.000	0.000	0.082	0.000	0.067
Tablet	Top Edge 0mm	0.428	0.155	0.699	0.824	0.995	0.809	0.963	0.583	1.423	1.391	1.523	1.508
Tablet	Bottom Edge 0mm	0.000	0.000	0.000	0.000	0.000	0.059	0.095	0.000	0.000	0.095	0.000	0.059
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 1.523 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.													

14 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: 1710	2026/01/12	2027/01/11
E-Field Probe	Speag	EX3DV4	SN: 7607	2025/08/06	2026/08/05
Signal Generator	Keysight	N5173B	MY62150163	2026/06/22	2027/06/21
Power Meter	R&S	NRVD-B2	835843/014	2026/06/23	2027/06/22
Power Sensor	R&S	NRV-Z4	100381	2026/06/23	2027/06/22
Power Sensor	R&S	NRV-Z2	100211	2026/06/23	2027/06/22
Network Analyzer	Agilent	E5071C	MY46103472	2025/08/13	2026/08/12
Thermometer	Elitech	RC-4HC	EF7239002655	2025/10/29	2026/10/28
Thermometer	Elitech	RC-4HC	EF7216002974	2025/10/30	2026/10/29
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2159	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 (%)
2026.07.10	Head	2450	21.7	1.84	39.35	1.80	39.20	2.22	0.38
2026.07.11	Head	5250	21.5	4.54	35.63	4.71	35.93	-3.61	-0.84
2026.07.14	Head	5600	21.6	4.97	34.84	5.07	35.53	-1.97	-1.94
2026.07.15	Head	5750	21.5	5.13	36.14	5.22	35.36	-1.72	2.21
2026.07.16	Head	6500	21.3	6.02	33.79	6.07	34.46	-0.82	-1.94
2026.07.17	Head	6500	21.6	6.00	34.92	6.07	34.46	-1.15	1.33
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 (%)
2026.07.10	Head	2450	100	5.460	54.60	52.60	3.80
2026.07.11	Head	5250	100	7.710	77.10	77.70	-0.77
2026.07.14	Head	5600	100	7.890	78.90	81.30	-2.95
2026.07.15	Head	5750	100	7.990	79.90	77.60	2.96
2026.07.16	Head	6500	100	29.200	292.00	299.00	-2.34
2026.07.17	Head	6500	100	29.700	297.00	299.00	-0.67

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

Please refer the document "Ti-CC26060266-ASC-1.pdf".

ANNEX C TEST DATA

Please refer the document “Ti-CC26060266-ATD-1.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26060266-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “Ti-CC26060266-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “Ti-CC26060266-AC.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “Ti-CC26060266-AT.pdf”.

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