



TEST REPORT

Applicant: unitech electronics co., ltd.
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist.,
New Taipei City 231028, Taiwan
Equipment Type: Rugged Handheld Computer
Model Name: PA768-0D6CRMPG
Brand Name: N/A
FCC ID: HLEPA768-0D6CRMPG
Test Standard: ANSI/IEEE Std.
C95.1-1992
(refer section 3.1)
Maximum SAR: Head 2.4GHz (1 g@0mm): 0.13 W/kg
Body 2.4GHz (1 g@5mm): 0.47 W/kg
Head 5GHz (1 g@0mm): 0.13 W/kg
Body 5GHz (1 g@5mm): 0.75 W/kg
Head 6GHz (1 g@0mm): 0.11 W/kg
Body 6GHz (1 g@5mm): 0.52 W/kg
Sample Arrival Date: Jul. 13, 2026
Test Date: Jul. 18, 2026 - Jul. 22, 2026
Date of Issue: Sep. 28, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Song Gui**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 16, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Sep. 28, 2026</u>	<u>Add the 6XD results of Equipment Class in Chapter 3.3</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	unitech electronics co., ltd.
Address	5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231028, Taiwan

2.2 Manufacturer Information

Manufacturer	unitech electronics co., ltd.
Address	5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231028, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Rugged Handheld Computer
Model Name Under Test	PA768-0D6CRMPG
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.3
Software Version	FH09W_V01.34b01
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	1400-900069G
	Serial No.	N/A
	Capacitance	4950 mAh
	Rated Voltage	3.85 V
	Limited Voltage	4.4 V
	Manufacturer	LIFUN TECHNOLOGY CO., LTD.

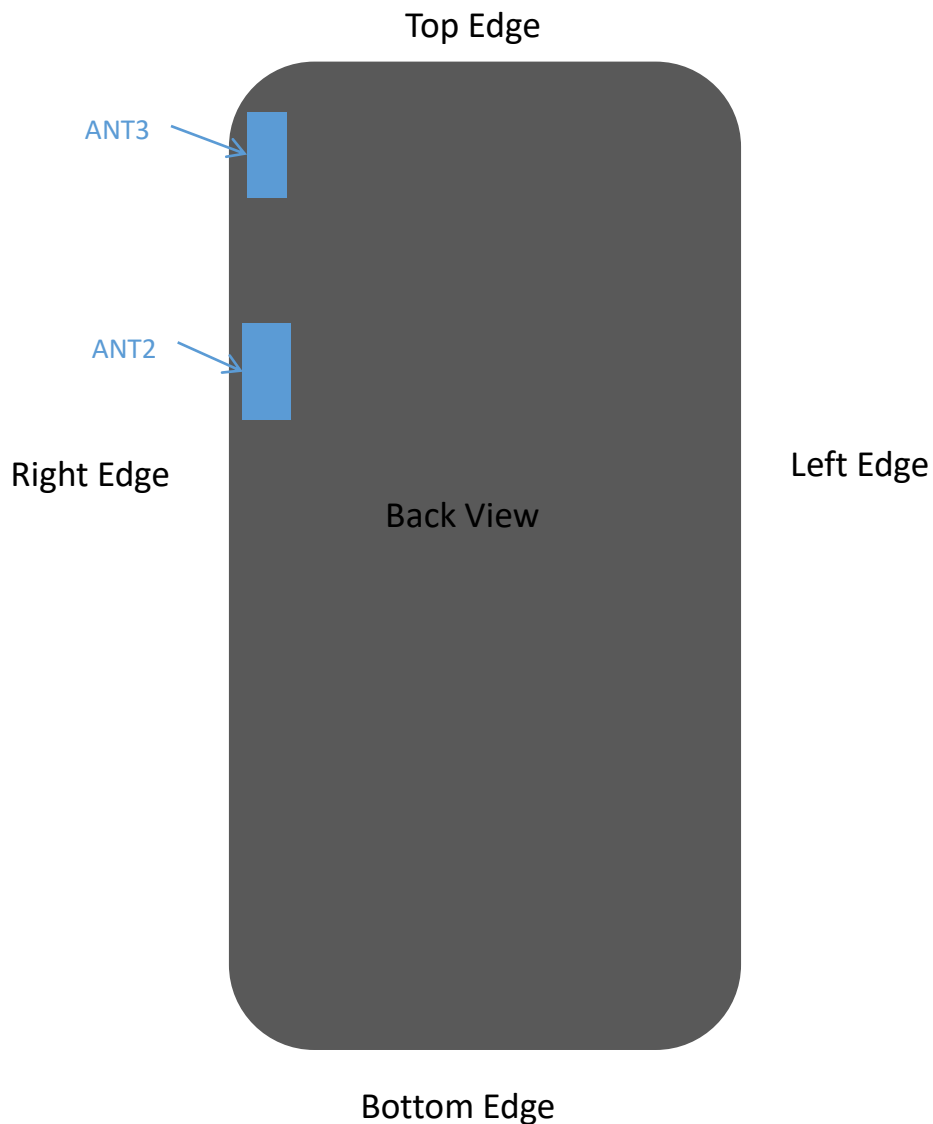
2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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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 ~ 2462 MHz
	802.11n(HT20/HT40)	2412 ~ 2462 MHz
	802.11ax(HE20/HE40)	2412 ~ 2462 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ac (VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ax (HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)	5150 ~ 5250 MHz
		5470 ~ 5725 MHz
	802.11ax (HE20/HE40/HE80/HE160)	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

2.6 Antenna Location



Antenna	Support Bands
ANT 3	Bluetooth/WIFI 2.4G/WIFI 5G/WIFI 6E
ANT 2	Bluetooth/WIFI 2.4G/WIFI 5G/WIFI 6E

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	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01 ☆	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D05A v01r02 ☆	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
6	KDB 865664 D01 v01r04 ☆	SAR Measurement 100 MHz to 6 GHz
7	KDB 865664 D02 v01r02 ☆	RF Exposure Reporting
8	KDB 648474 D04 v01r03 ☆	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
9	KDB 248227 D01 v02r02 ☆	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
10	EN 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 Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)	
		Head		Body		Head	Body
		(0mm)		(5mm)		(0mm)	(5mm)
		(ANT3)	(ANT2)	(ANT3)	(ANT2)	/	/
		1g SAR					
DTS	2.4G WIFI	0.08	0.10	0.47	0.14	0.13	0.75
NII	5.3G WIFI	0.11	0.12	0.75	0.33		
	5.6G WIFI	0.03	0.13	0.63	0.27		
	5.8G WIFI	0.11	0.11	0.44	0.29		
6XD	6G WIFI	0.11	0.10	0.52	0.05		
DSS	Bluetooth	0.13	0.13	0.06	0.13		
Limit (W/kg)		1.60					
Verdict		PASS					

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Simultaneous Transmission SAR	
	(W/kg)	
	Head 1g (0mm)	Body 1g (5mm)
DTS	0.42	1.38
NII	0.42	1.38
6XD	0.38	1.16
DSS	0.37	0.84
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 0.79 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:

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

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

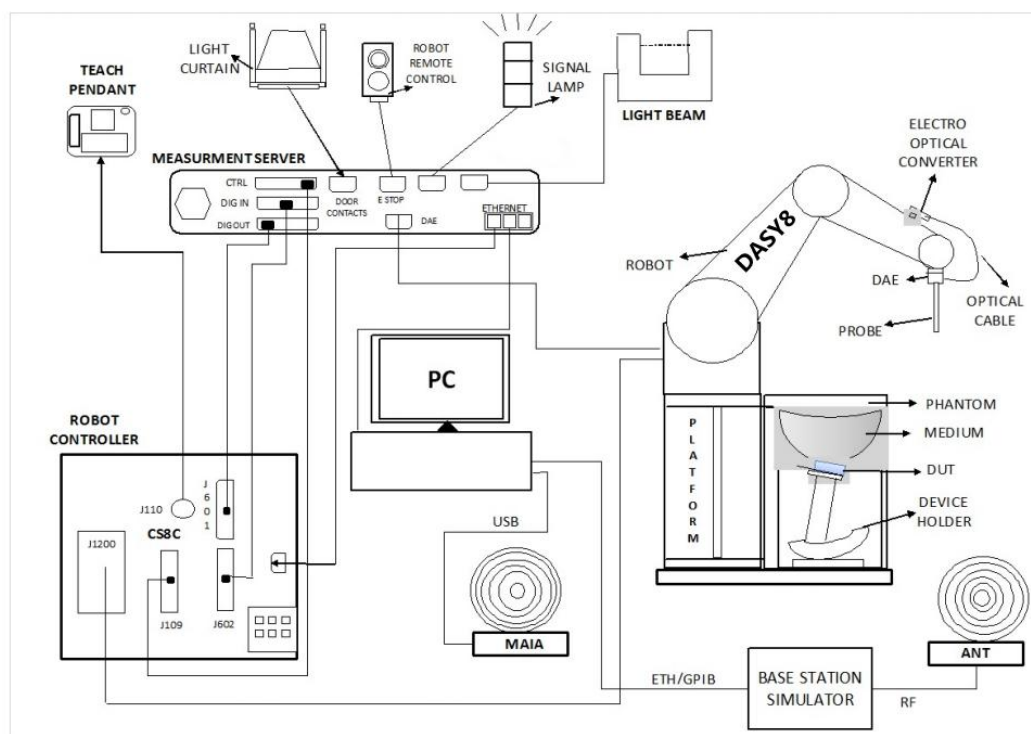
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY5 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. DASY5 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., glycolether)
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
- 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° .

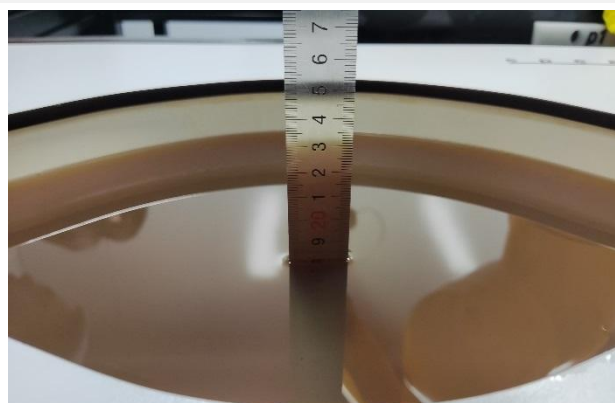
4.2.7 Simulating Liquid

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%.

Head Liquid Depth



Body Liquid Depth



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

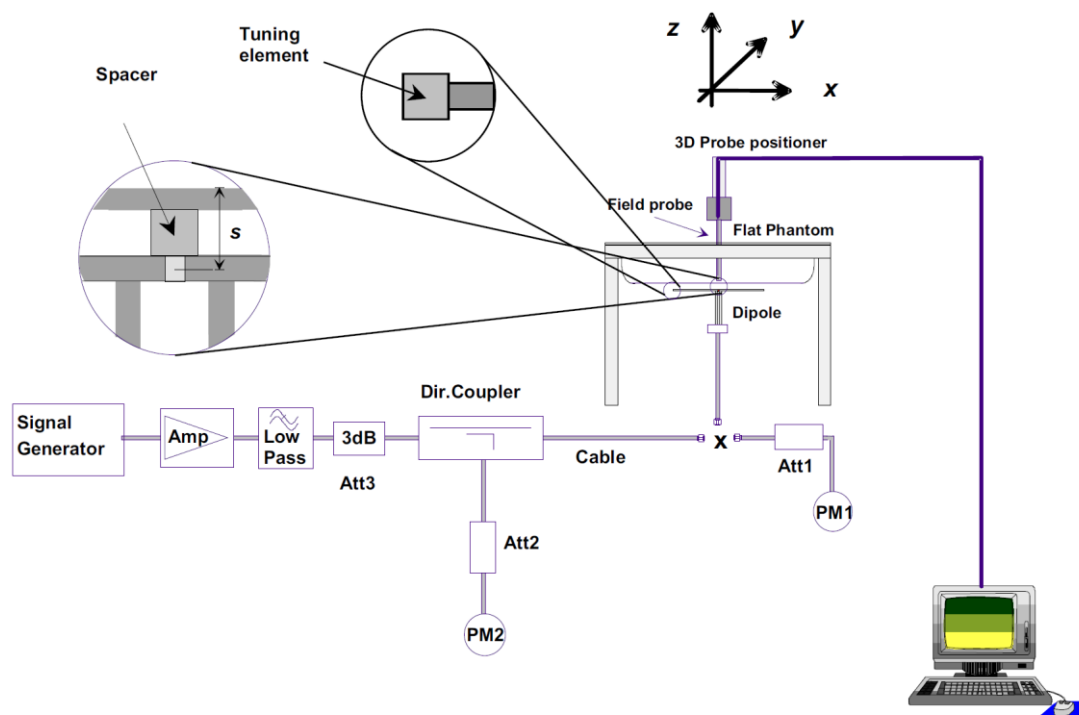
5 SYSTEM VERIFICATION

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

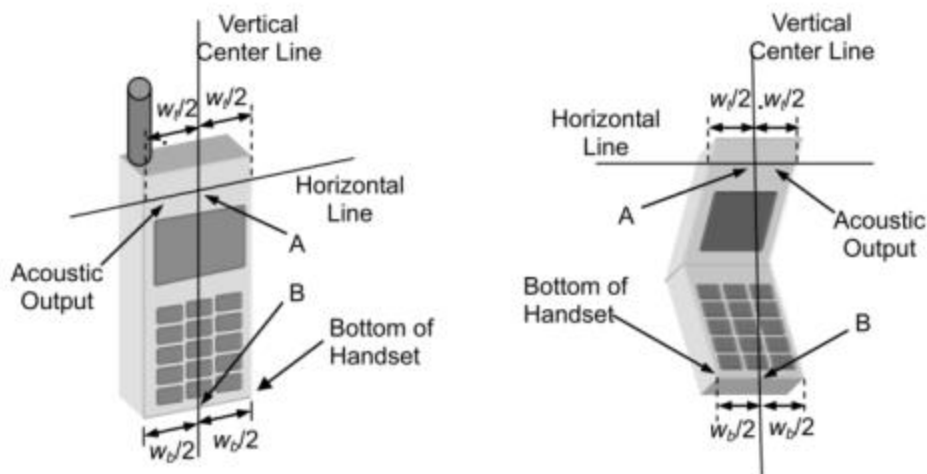
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

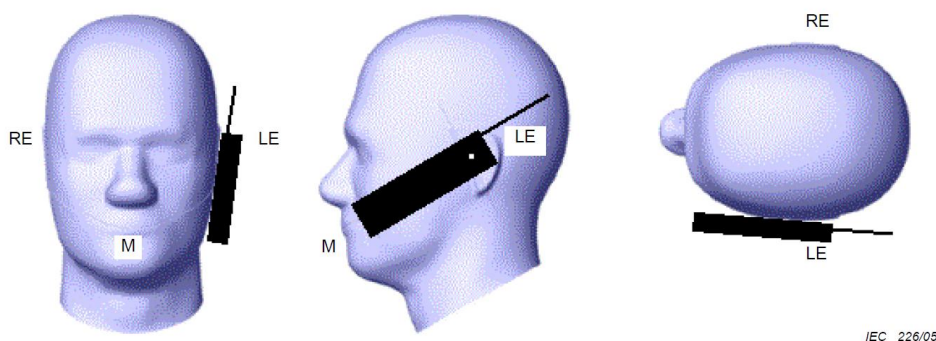
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

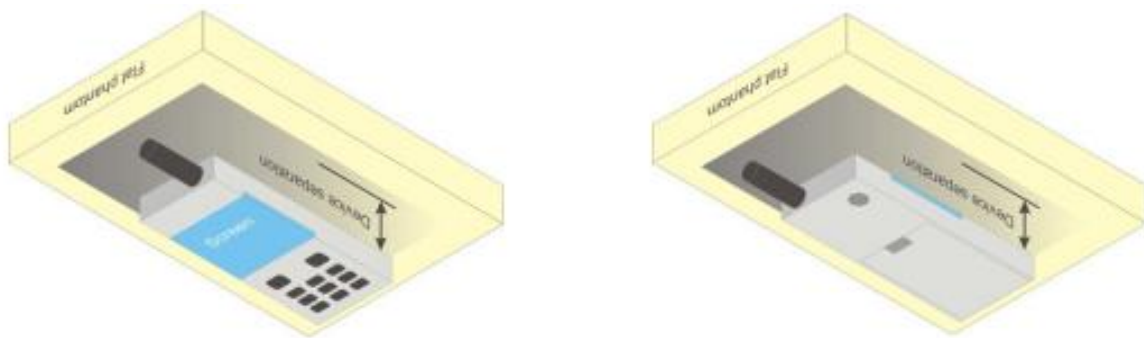


6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

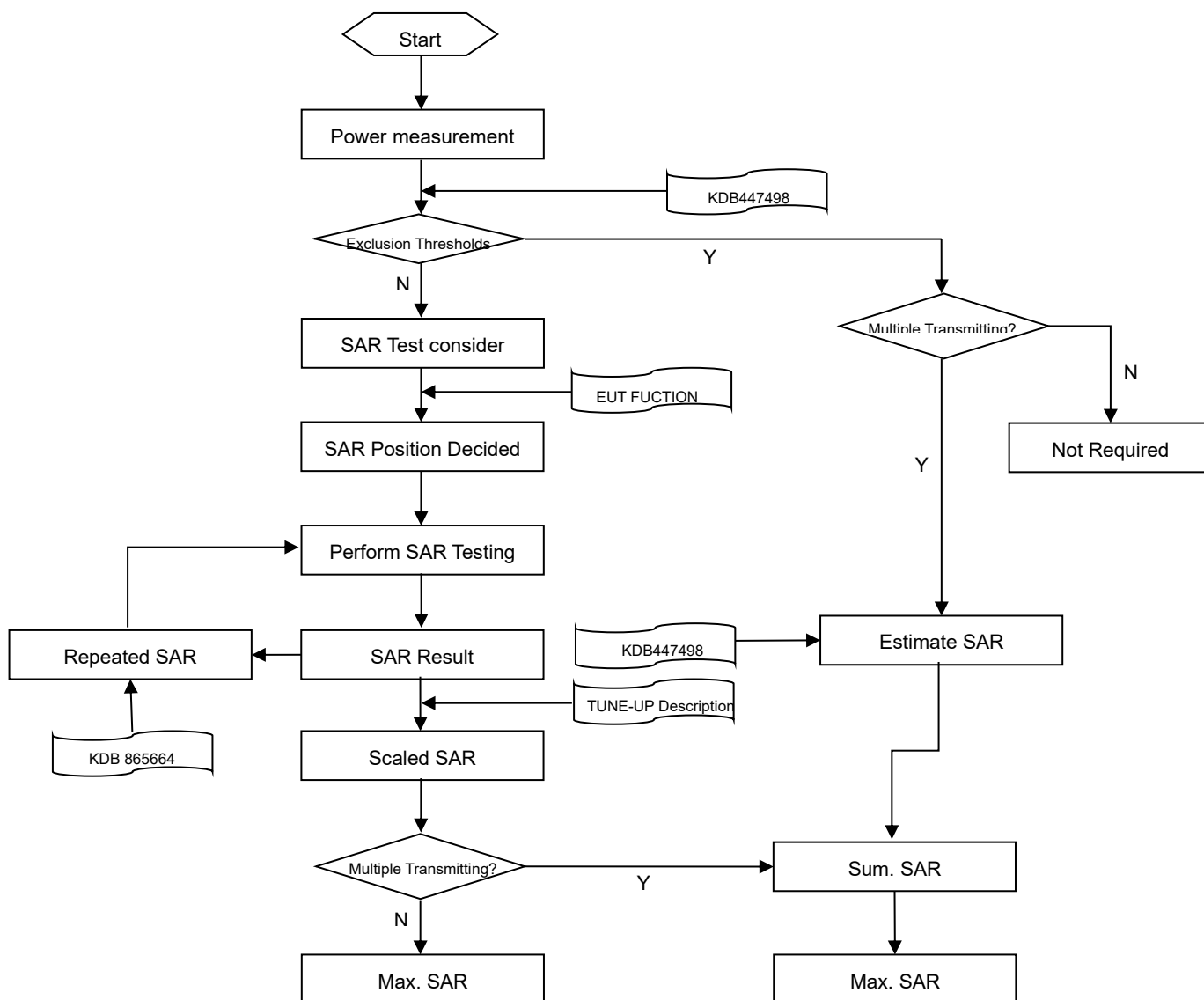
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



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
				5–6 GHz: ≤ 2 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.

8 CONDUCTED RF OUTPUT POWER

Please refer the document “Ti-EE26060694-AP-1.pdf”.

9 TEST RESULT

9.1 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT3	DH5	Left Cheek	0	39	2441	-0.06	0.088	10.56	11.00	1.107	76.88	1.301	0.127	/
		Left Tilt	0	39	2441	0.19	0.081	10.56	11.00	1.107	76.88	1.301	0.117	/
		Right Cheek	0	39	2441	-0.18	0.075	10.56	11.00	1.107	76.88	1.301	0.108	/
		Right Tilt	0	39	2441	0.18	0.047	10.56	11.00	1.107	76.88	1.301	0.068	/
		Left Cheek	0	0	2402	-0.17	0.079	10.38	11.00	1.153	76.88	1.301	0.119	/
		Left Cheek	0	78	2480	0.17	0.087	10.54	11.00	1.112	76.88	1.301	0.126	/
ANT2		Left Cheek	0	39	2441	-0.06	0.094	10.64	11.00	1.086	76.88	1.301	0.133	1#
		Left Tilt	0	39	2441	0.02	0.087	10.64	11.00	1.086	76.88	1.301	0.123	/
		Right Cheek	0	39	2441	0.13	0.061	10.64	11.00	1.086	76.88	1.301	0.086	/
		Right Tilt	0	39	2441	-0.11	0.047	10.64	11.00	1.086	76.88	1.301	0.066	/
		Left Cheek	0	0	2402	-0.11	0.084	10.48	11.00	1.127	76.88	1.301	0.123	/
		Left Cheek	0	78	2480	-0.08	0.084	10.27	11.00	1.183	76.88	1.301	0.129	/
Body														
ANT3	DH5	Front Side	5	39	2441	-0.07	0.028	10.56	11.00	1.107	76.88	1.301	0.040	/
		Back Side	5	39	2441	0.02	0.040	10.56	11.00	1.107	76.88	1.301	0.058	/
		Left Edge	5	39	2441	0.01	0.031	10.56	11.00	1.107	76.88	1.301	0.045	/
		Right Edge	5	39	2441	0.14	0.035	10.56	11.00	1.107	76.88	1.301	0.050	/
		Top Edge	5	39	2441	0.10	0.028	10.56	11.00	1.107	76.88	1.301	0.040	/
		Bottom Edge	5	39	2441	0.02	0.024	10.56	11.00	1.107	76.88	1.301	0.035	/
		Back Side	5	0	2402	-0.15	0.031	10.38	11.00	1.153	76.88	1.301	0.047	/
		Back Side	5	78	2480	-0.07	0.028	10.54	11.00	1.112	76.88	1.301	0.041	/
ANT2		Front Side	5	39	2441	-0.12	0.028	10.64	11.00	1.086	76.88	1.301	0.040	/
		Back Side	5	39	2441	0.06	0.091	10.64	11.00	1.086	76.88	1.301	0.129	10#
		Left Edge	5	39	2441	0.06	0.029	10.64	11.00	1.086	76.88	1.301	0.041	/
		Right Edge	5	39	2441	0.05	0.043	10.64	11.00	1.086	76.88	1.301	0.061	/
		Top Edge	5	39	2441	0.06	0.038	10.64	11.00	1.086	76.88	1.301	0.054	/
		Bottom Edge	5	39	2441	-0.11	0.029	10.64	11.00	1.086	76.88	1.301	0.041	/
		Back Side	5	0	2402	0.07	0.087	10.48	11.00	1.127	76.88	1.301	0.128	/
		Back Side	5	78	2480	-0.03	0.055	10.27	11.00	1.183	76.88	1.301	0.085	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

9.2 WIFI 2.4GHz

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT3	802.11b	Left Cheek	0	6	2437	0.17	0.055	12.89	13.50	1.151	97.06	1.030	0.065	/
		Left Tilt	0	6	2437	0.16	0.034	12.89	13.50	1.151	97.06	1.030	0.040	/
		Right Cheek	0	6	2437	0.06	0.031	12.89	13.50	1.151	97.06	1.030	0.037	/
		Right Tilt	0	6	2437	-0.02	0.013	12.89	13.50	1.151	97.06	1.030	0.015	/
		Left Cheek	0	1	2412	0.16	0.037	11.87	13.50	1.455	97.06	1.030	0.055	/
		Left Cheek	0	11	2462	-0.17	0.052	11.81	13.50	1.476	97.06	1.030	0.079	/
ANT2	802.11b	Left Cheek	0	1	2412	-0.04	0.083	13.84	14.50	1.164	97.06	1.030	0.100	2#
		Left Tilt	0	1	2412	0.04	0.039	13.84	14.50	1.164	97.06	1.030	0.047	/
		Right Cheek	0	1	2412	0.09	0.037	13.84	14.50	1.164	97.06	1.030	0.044	/
		Right Tilt	0	1	2412	-0.19	0.012	13.84	14.50	1.164	97.06	1.030	0.014	/
		Left Cheek	0	6	2437	-0.19	0.072	12.46	13.50	1.271	97.06	1.030	0.094	/
		Left Cheek	0	11	2462	-0.14	0.075	13.78	14.50	1.180	97.06	1.030	0.091	/
Body														
ANT3	802.11b	Front Side	5	6	2437	0.14	0.027	12.89	13.50	1.151	97.06	1.030	0.032	/
		Back Side	5	6	2437	-0.11	0.329	12.89	13.50	1.151	97.06	1.030	0.390	/
		Left Edge	5	6	2437	0.18	0.015	12.89	13.50	1.151	97.06	1.030	0.018	/
		Right Edge	5	6	2437	-0.15	0.139	12.89	13.50	1.151	97.06	1.030	0.165	/
		Top Edge	5	6	2437	-0.03	0.072	12.89	13.50	1.151	97.06	1.030	0.085	/
		Bottom Edge	5	6	2437	-0.01	0.017	12.89	13.50	1.151	97.06	1.030	0.020	/
		Back Side	5	1	2412	0.01	0.312	11.87	13.50	1.455	97.06	1.030	0.468	/
		Back Side	5	11	2462	0.07	0.270	11.81	13.50	1.476	97.06	1.030	0.410	/
Ant.6	802.11b	Front Side	5	1	2412	0.05	0.015	13.84	14.50	1.164	97.06	1.030	0.018	/
		Back Side	5	1	2412	-0.11	0.105	13.84	14.50	1.164	97.06	1.030	0.126	/
		Left Edge	5	1	2412	-0.08	0.016	13.84	14.50	1.164	97.06	1.030	0.019	/
		Right Edge	5	1	2412	-0.02	0.056	13.84	14.50	1.164	97.06	1.030	0.067	/
		Top Edge	5	1	2412	0.03	0.011	13.84	14.50	1.164	97.06	1.030	0.013	/
		Bottom Edge	5	1	2412	0.10	0.010	13.84	14.50	1.164	97.06	1.030	0.012	/
		Back Side	5	6	2437	0.05	0.093	12.46	13.50	1.271	97.06	1.030	0.122	/
		Back Side	5	11	2462	0.10	0.116	13.78	14.50	1.180	97.06	1.030	0.141	/
ANT. MIMO	802.11b	Front Side	5	1	2412	-0.16	0.029	15.98	16.50	1.127	97.06	1.030	0.034	/
		Back Side	5	1	2412	-0.06	0.426	15.98	16.50	1.127	97.06	1.030	0.495	/
		Left Edge	5	1	2412	0.11	0.024	15.98	16.50	1.127	97.06	1.030	0.028	/
		Right Edge	5	1	2412	-0.09	0.192	15.98	16.50	1.127	97.06	1.030	0.223	/
		Top Edge	5	1	2412	-0.19	0.093	15.98	16.50	1.127	97.06	1.030	0.108	/

		Bottom Edge	5	1	2412	0.06	0.022	15.98	16.50	1.127	97.06	1.030	0.026	/
		Back Side	5	6	2437	-0.02	0.477	15.69	16.50	1.205	97.06	1.030	0.592	11#
		Back Side	5	11	2462	-0.07	0.396	15.92	16.50	1.143	97.06	1.030	0.466	/

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

9.3 WIFI 5GHz

Antenna	Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT3	5.3G	802.11 n40	Left Cheek	0	54	5270	-0.03	0.078	13.41	15.00	1.442	98.98	1.010	0.114	/
			Left Tilt	0	54	5270	-0.19	0.070	13.41	15.00	1.442	98.98	1.010	0.102	/
			Right Cheek	0	54	5270	0.13	0.026	13.41	15.00	1.442	98.98	1.010	0.038	/
			Right Tilt	0	54	5270	0.04	0.034	13.41	15.00	1.442	98.98	1.010	0.050	/
			Left Cheek	0	62	5310	-0.13	0.088	12.96	14.00	1.271	98.98	1.010	0.113	/
ANT2	5.3G	802.11 n40	Left Cheek	0	62	5310	-0.04	0.088	11.87	13.00	1.297	98.98	1.010	0.115	3#
			Left Tilt	0	62	5310	0.05	0.075	11.87	13.00	1.297	98.98	1.010	0.098	/
			Right Cheek	0	62	5310	-0.09	0.020	11.87	13.00	1.297	98.98	1.010	0.026	/
			Right Tilt	0	62	5310	0.19	0.026	11.87	13.00	1.297	98.98	1.010	0.034	/
			Left Cheek	0	54	5270	-0.01	0.075	11.40	13.00	1.445	98.98	1.010	0.109	/
ANT3	5.6G	802.11 n40	Left Cheek	0	102	5510	0.04	0.026	11.57	12.00	1.104	98.98	1.010	0.029	/
			Left Tilt	0	102	5510	-0.18	0.018	11.57	12.00	1.104	98.98	1.010	0.020	/
			Right Cheek	0	102	5510	0.17	0.024	11.57	12.00	1.104	98.98	1.010	0.027	/
			Right Tilt	0	102	5510	-0.14	0.024	11.57	12.00	1.104	98.98	1.010	0.027	/
			Left Cheek	0	118	5590	-0.19	0.024	11.36	12.00	1.159	98.98	1.010	0.028	/
			Left Cheek	0	134	5670	0.11	0.021	11.07	12.00	1.239	98.98	1.010	0.026	/
ANT2	5.6G	802.11 n40	Left Cheek	0	134	5670	-0.16	0.066	11.39	12.00	1.151	98.98	1.010	0.077	/
			Left Tilt	0	134	5670	-0.14	0.046	11.39	12.00	1.151	98.98	1.010	0.053	/
			Right Cheek	0	134	5670	0.15	0.014	11.39	12.00	1.151	98.98	1.010	0.016	/
			Right Tilt	0	134	5670	0.00	0.015	11.39	12.00	1.151	98.98	1.010	0.017	/
			Left Cheek	0	118	5590	0.06	0.084	10.24	12.00	1.500	98.98	1.010	0.127	4#
			Left Cheek	0	102	5510	0.09	0.080	10.90	12.00	1.288	98.98	1.010	0.104	/
ANT3	5.8G	802.11 a	Left Cheek	0	165	5825	0.16	0.084	15.38	16.00	1.153	98.85	1.012	0.098	/
			Left Tilt	0	165	5825	0.05	0.092	15.38	16.00	1.153	98.85	1.012	0.107	/
			Right Cheek	0	165	5825	-0.02	0.032	15.38	16.00	1.153	98.85	1.012	0.037	/
			Right Tilt	0	165	5825	-0.13	0.015	15.38	16.00	1.153	98.85	1.012	0.018	/
			Left Tilt	0	149	5745	0.14	0.066	13.42	14.00	1.143	98.85	1.012	0.076	/
			Left Tilt	0	157	5785	0.03	0.070	14.15	15.00	1.216	98.85	1.012	0.086	/
ANT2	5.8G	802.11 a	Left Cheek	0	149	5745	0.00	0.100	13.68	14.00	1.076	98.85	1.012	0.109	/
			Left Tilt	0	149	5745	0.03	0.105	13.68	14.00	1.076	98.85	1.012	0.114	5#
			Right Cheek	0	149	5745	0.05	0.043	13.68	14.00	1.076	98.85	1.012	0.047	/
			Right Tilt	0	149	5745	0.04	0.022	13.68	14.00	1.076	98.85	1.012	0.024	/
			Left Tilt	0	157	5785	0.15	0.088	13.19	14.00	1.205	98.85	1.012	0.107	/
			Left Tilt	0	165	5825	0.10	0.085	11.94	13.00	1.276	98.85	1.012	0.110	/
Body															
ANT3	5.3G	802.11	Front Side	5	54	5270	0.16	0.051	13.41	15.00	1.442	98.98	1.010	0.074	/

		n40	Back Side	5	54	5270	-0.18	0.514	13.41	15.00	1.442	98.98	1.010	0.749	/
			Left Edge	5	54	5270	0.02	0.022	13.41	15.00	1.442	98.98	1.010	0.032	/
			Right Edge	5	54	5270	0.09	0.311	13.41	15.00	1.442	98.98	1.010	0.453	/
			Top Edge	5	54	5270	0.10	0.113	13.41	15.00	1.442	98.98	1.010	0.165	/
			Bottom Edge	5	54	5270	0.06	0.044	13.41	15.00	1.442	98.98	1.010	0.064	/
			Back Side	5	62	5310	-0.10	0.411	12.96	14.00	1.271	98.98	1.010	0.528	/
ANT2	5.3G	802.11 n40	Front Side	5	62	5310	-0.14	0.048	11.87	13.00	1.297	98.98	1.010	0.063	/
			Back Side	5	62	5310	-0.02	0.091	11.87	13.00	1.297	98.98	1.010	0.119	/
			Left Edge	5	62	5310	-0.08	0.017	11.87	13.00	1.297	98.98	1.010	0.022	/
			Right Edge	5	62	5310	-0.05	0.251	11.87	13.00	1.297	98.98	1.010	0.329	/
			Top Edge	5	62	5310	-0.16	0.027	11.87	13.00	1.297	98.98	1.010	0.035	/
			Bottom Edge	5	62	5310	0.15	0.021	11.87	13.00	1.297	98.98	1.010	0.028	/
ANT. MIMO	5.3G	802.11 n40	Right Edge	5	54	5270	0.19	0.206	11.40	13.00	1.445	98.98	1.010	0.301	/
			Front Side	5	54	5270	0.07	0.074	15.53	17.00	1.403	98.98	1.010	0.105	/
			Back Side	5	54	5270	0.15	0.387	15.53	17.00	1.403	98.98	1.010	0.548	/
			Left Edge	5	54	5270	-0.11	0.029	15.53	17.00	1.403	98.98	1.010	0.041	/
			Right Edge	5	54	5270	0.16	0.287	15.53	17.00	1.403	98.98	1.010	0.407	/
			Top Edge	5	54	5270	-0.16	0.164	15.53	17.00	1.403	98.98	1.010	0.232	/
ANT3	5.6G	802.11 n40	Bottom Edge	5	54	5270	-0.07	0.029	15.53	17.00	1.403	98.98	1.010	0.041	/
			Back Side	5	62	5310	-0.03	0.537	15.46	17.00	1.426	98.98	1.010	0.773	12#
			Front Side	5	102	5510	0.05	0.109	11.57	12.00	1.104	98.98	1.010	0.122	/
			Back Side	5	102	5510	0.05	0.568	11.57	12.00	1.104	98.98	1.010	0.633	/
			Left Edge	5	102	5510	0.12	0.022	11.57	12.00	1.104	98.98	1.010	0.025	/
			Right Edge	5	102	5510	-0.07	0.563	11.57	12.00	1.104	98.98	1.010	0.628	/
ANT2	5.6G	802.11 n40	Top Edge	5	102	5510	0.06	0.118	11.57	12.00	1.104	98.98	1.010	0.132	/
			Bottom Edge	5	102	5510	-0.04	0.027	11.57	12.00	1.104	98.98	1.010	0.030	/
			Back Side	5	118	5590	-0.19	0.392	11.36	12.00	1.159	98.98	1.010	0.459	/
			Back Side	5	134	5670	-0.01	0.376	11.07	12.00	1.239	98.98	1.010	0.471	/
			Front Side	5	134	5670	-0.15	0.032	11.39	12.00	1.151	98.98	1.010	0.037	/
			Back Side	5	134	5670	-0.13	0.085	11.39	12.00	1.151	98.98	1.010	0.099	/
ANT. MIMO	5.6G	802.11 n40	Left Edge	5	134	5670	-0.10	0.022	11.39	12.00	1.151	98.98	1.010	0.026	/
			Right Edge	5	134	5670	0.01	0.171	11.39	12.00	1.151	98.98	1.010	0.199	/
			Top Edge	5	134	5670	-0.15	0.026	11.39	12.00	1.151	98.98	1.010	0.030	/
			Bottom Edge	5	134	5670	0.06	0.030	11.39	12.00	1.151	98.98	1.010	0.035	/
			Right Edge	5	102	5510	-0.09	0.177	10.24	12.00	1.500	98.98	1.010	0.268	/
			Right Edge	5	118	5590	0.15	0.136	10.90	12.00	1.288	98.98	1.010	0.177	/
ANT. MIMO	5.6G	802.11 n40	Back Side	5	134	5670	0.17	0.654	14.25	15.00	1.189	98.98	1.010	0.785	13#
			Left Edge	5	134	5670	0.19	0.025	14.25	15.00	1.189	98.98	1.010	0.030	/
			Right Edge	5	134	5670	-0.06	0.510	14.25	15.00	1.189	98.98	1.010	0.612	/
			Top Edge	5	134	5670	-0.09	0.159	14.25	15.00	1.189	98.98	1.010	0.191	/
			Bottom Edge	5	134	5670	-0.16	0.021	14.25	15.00	1.189	98.98	1.010	0.025	/
			Back Side	5	102	5510	0.08	0.298	13.97	15.00	1.268	98.98	1.010	0.382	/

			Back Side	5	118	5590	-0.09	0.558	14.15	15.00	1.216	98.98	1.010	0.685	/
ANT3	5.8G	802.11 a	Front Side	5	165	5825	0.01	0.091	15.38	16.00	1.153	98.85	1.012	0.106	/
			Back Side	5	165	5825	-0.06	0.373	15.38	16.00	1.153	98.85	1.012	0.435	14#
			Left Edge	5	165	5825	0.03	0.051	15.38	16.00	1.153	98.85	1.012	0.060	/
			Right Edge	5	165	5825	0.19	0.362	15.38	16.00	1.153	98.85	1.012	0.422	/
			Top Edge	5	165	5825	0.05	0.195	15.38	16.00	1.153	98.85	1.012	0.228	/
			Bottom Edge	5	165	5825	-0.10	0.055	15.38	16.00	1.153	98.85	1.012	0.064	/
			Back Side	5	149	5745	-0.01	0.260	13.42	14.00	1.143	98.85	1.012	0.301	/
			Back Side	5	157	5785	0.04	0.272	14.15	15.00	1.216	98.85	1.012	0.335	/
ANT2	5.8G	802.11 a	Front Side	5	149	5745	-0.02	0.052	13.68	14.00	1.076	98.85	1.012	0.057	/
			Back Side	5	149	5745	-0.03	0.134	13.68	14.00	1.076	98.85	1.012	0.146	/
			Left Edge	5	149	5745	0.06	0.040	13.68	14.00	1.076	98.85	1.012	0.044	/
			Right Edge	5	149	5745	0.17	0.220	13.68	14.00	1.076	98.85	1.012	0.240	/
			Top Edge	5	149	5745	-0.12	0.068	13.68	14.00	1.076	98.85	1.012	0.074	/
			Bottom Edge	5	149	5745	0.12	0.066	13.68	14.00	1.076	98.85	1.012	0.072	/
			Right Edge	5	157	5785	-0.12	0.240	13.19	14.00	1.205	98.85	1.012	0.293	/
			Right Edge	5	165	5825	-0.12	0.209	11.94	13.00	1.276	98.85	1.012	0.270	/
ANT. MIMO	5.8G	802.11 a	Front Side	5	165	5825	0.02	0.082	17.00	17.80	1.202	98.98	1.010	0.100	/
			Back Side	5	165	5825	0.01	0.355	17.00	17.80	1.202	98.98	1.010	0.431	/
			Left Edge	5	165	5825	0.07	0.048	17.00	17.80	1.202	98.98	1.010	0.058	/
			Right Edge	5	165	5825	-0.08	0.228	17.00	17.80	1.202	98.98	1.010	0.277	/
			Top Edge	5	165	5825	-0.09	0.185	17.00	17.80	1.202	98.98	1.010	0.225	/
			Bottom Edge	5	165	5825	0.08	0.042	17.00	17.80	1.202	98.98	1.010	0.051	/
			Back Side	5	149	5745	-0.02	0.322	16.56	17.00	1.107	98.98	1.010	0.360	/
			Back Side	5	157	5785	0.06	0.318	16.71	17.50	1.199	98.98	1.010	0.385	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

9.4 WIFI 6GHz

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

Band	Antenna	Mode	Position	Dist. (mm)	Ch	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Measu red APD4c m2 [W/m2]	Meas. uncert ainty Scaling Factor	Scaled APD [W/m2]	Meas. No.
Head																		
WIFI 6E U- NII-5	ANT3	802.1 1ax16 0	Left Cheek	0	15	6025	-0.05	0.072	14.21	15.00	1.199	97.86	1.022	0.088	0.511	1.028	0.644	/
WIFI 6E U- NII-5	ANT3	802.1 1ax16 0	Left Tilt	0	15	6025	0.01	0.076	14.21	15.00	1.199	97.86	1.022	0.093	0.551	1.028	0.694	6#
WIFI 6E U- NII-5	ANT3	802.1 1ax16 0	Right Cheek	0	15	6025	-0.02	0.053	14.21	15.00	1.199	97.86	1.022	0.065	0.381	1.028	0.480	/
WIFI 6E U- NII-5	ANT3	802.1 1ax16 0	Right Tilt	0	15	6025	-0.17	0.064	14.21	15.00	1.199	97.86	1.022	0.078	0.452	1.028	0.569	/
WIFI 6E U- NII-5	ANT3	802.1 1ax16 0	Left Tilt	0	47	6185	-0.05	0.069	13.28	14.00	1.180	97.86	1.022	0.083	0.499	1.028	0.619	/
WIFI 6E U- NII-5	ANT3	802.1 1ax16 0	Left Tilt	0	79	6345	0.03	0.065	12.91	13.00	1.021	97.86	1.022	0.068	0.415	1.028	0.445	/
WIFI 6E U- NII-5	ANT2	802.1 1ax16 0	Left Cheek	0	79	6345	-0.02	0.068	11.09	12.00	1.233	97.86	1.022	0.086	0.512	1.028	0.663	/
WIFI 6E U- NII-5	ANT2	802.1 1ax16 0	Left Tilt	0	79	6345	0.05	0.058	11.09	12.00	1.233	97.86	1.022	0.073	0.417	1.028	0.540	/
WIFI 6E U- NII-5	ANT2	802.1 1ax16 0	Right Cheek	0	79	6345	-0.07	0.056	11.09	12.00	1.233	97.86	1.022	0.071	0.411	1.028	0.532	/
WIFI 6E U- NII-5	ANT2	802.1 1ax16 0	Right Tilt	0	79	6345	0.02	0.047	11.09	12.00	1.233	97.86	1.022	0.059	0.328	1.028	0.425	/
WIFI 6E U- NII-5	ANT2	802.1 1ax16 0	Left Cheek	0	15	6025	-0.09	0.060	8.64	9.00	1.086	97.86	1.022	0.067	0.366	1.028	0.418	/

WIFI 6E U- NII-5	ANT2	802.1 1ax16 0	Left Cheek	0	47	6185	-0.16	0.064	9.46	10.00	1.132	97.86	1.022	0.074	0.412	1.028	0.490	/
WIFI 6E U- NII-6	ANT3	802.1 1ax16 0	Left Cheek	0	111	6505	-0.07	0.088	16.57	17.00	1.104	97.86	1.022	0.099	0.511	1.028	0.593	/
WIFI 6E U- NII-6	ANT3	802.1 1ax16 0	Left Tilt	0	111	6505	0.11	0.093	16.57	17.00	1.104	97.86	1.022	0.105	0.579	1.028	0.672	7#
WIFI 6E U- NII-6	ANT3	802.1 1ax16 0	Right Cheek	0	111	6505	0.10	0.083	16.57	17.00	1.104	97.86	1.022	0.094	0.510	1.028	0.592	/
WIFI 6E U- NII-6	ANT3	802.1 1ax16 0	Right Tilt	0	111	6505	0.04	0.082	16.57	17.00	1.104	97.86	1.022	0.093	0.519	1.028	0.602	/
WIFI 6E U- NII-6	ANT2	802.1 1ax16 0	Left Cheek	0	111	6505	0.01	0.078	14.57	15.50	1.239	97.86	1.022	0.099	0.429	1.028	0.558	/
WIFI 6E U- NII-6	ANT2	802.1 1ax16 0	Left Tilt	0	111	6505	-0.04	0.075	14.57	15.50	1.239	97.86	1.022	0.095	0.418	1.028	0.544	/
WIFI 6E U- NII-6	ANT2	802.1 1ax16 0	Right Cheek	0	111	6505	0.08	0.069	14.57	15.50	1.239	97.86	1.022	0.087	0.422	1.028	0.549	/
WIFI 6E U- NII-6	ANT2	802.1 1ax16 0	Right Tilt	0	111	6505	0.17	0.070	14.57	15.50	1.239	97.86	1.022	0.089	0.385	1.028	0.501	/
WIFI 6E U- NII-7	ANT3	802.1 1ax80	Left Cheek	0	135	6625	-0.09	0.028	16.27	17.00	1.183	96.42	1.037	0.034	0.115	1.028	0.145	/
WIFI 6E U- NII-7	ANT3	802.1 1ax80	Left Tilt	0	135	6625	-0.11	0.020	16.27	17.00	1.183	96.42	1.037	0.025	0.082	1.028	0.103	/
WIFI 6E U- NII-7	ANT3	802.1 1ax80	Right Cheek	0	135	6625	0.02	0.015	16.27	17.00	1.183	96.42	1.037	0.018	0.071	1.028	0.090	/
WIFI 6E U- NII-7	ANT3	802.1 1ax80	Right Tilt	0	135	6625	0.02	0.014	16.27	17.00	1.183	96.42	1.037	0.017	0.069	1.028	0.087	/
WIFI 6E U- NII-7	ANT3	802.1 1ax80	Left Cheek	0	151	6705	0.06	0.033	15.57	16.00	1.104	96.42	1.037	0.038	0.148	1.028	0.174	8#

WIFI 6E U- NII-7	ANT3	802.1 1ax80	Left Cheek	0	167	6785	0.16	0.029	13.90	14.00	1.023	96.42	1.037	0.031	0.100	1.028	0.109	/
WIFI 6E U- NII-7	ANT2	802.1 1ax80	Left Cheek	0	135	6625	0.11	0.012	14.35	14.50	1.035	96.42	1.037	0.013	0.051	1.028	0.056	/
WIFI 6E U- NII-7	ANT2	802.1 1ax80	Left Tilt	0	135	6625	0.11	0.010	14.35	14.50	1.035	96.42	1.037	0.011	0.044	1.028	0.049	/
WIFI 6E U- NII-7	ANT2	802.1 1ax80	Right Cheek	0	135	6625	0.10	0.010	14.35	14.50	1.035	96.42	1.037	0.011	0.041	1.028	0.045	/
WIFI 6E U- NII-7	ANT2	802.1 1ax80	Right Tilt	0	135	6625	-0.12	0.012	14.35	14.50	1.035	96.42	1.037	0.013	0.051	1.028	0.056	/
WIFI 6E U- NII-7	ANT2	802.1 1ax80	Right Tilt	0	151	6705	-0.02	0.015	9.89	10.00	1.026	96.42	1.037	0.016	0.053	1.028	0.058	/
WIFI 6E U- NII-7	ANT2	802.1 1ax80	Right Tilt	0	167	6785	0.09	0.011	11.84	12.00	1.038	96.42	1.037	0.012	0.042	1.028	0.046	/
WIFI 6E U- NII-8	ANT3	802.1 1ax80	Left Cheek	0	199	6945	-0.02	0.064	12.88	13.00	1.028	96.42	1.037	0.068	0.419	1.028	0.459	/
WIFI 6E U- NII-8	ANT3	802.1 1ax80	Left Tilt	0	199	6945	-0.10	0.062	12.88	13.00	1.028	96.42	1.037	0.066	0.388	1.028	0.425	/
WIFI 6E U- NII-8	ANT3	802.1 1ax80	Right Cheek	0	199	6945	-0.08	0.021	12.88	13.00	1.028	96.42	1.037	0.022	0.138	1.028	0.151	/
WIFI 6E U- NII-8	ANT3	802.1 1ax80	Right Tilt	0	199	6945	-0.09	0.028	12.88	13.00	1.028	96.42	1.037	0.030	0.175	1.028	0.192	/
WIFI 6E U- NII-8	ANT3	802.1 1ax80	Left Tilt	0	183	6865	-0.05	0.078	12.40	13.00	1.148	96.42	1.037	0.093	0.562	1.028	0.688	9#
WIFI 6E U- NII-8	ANT3	802.1 1ax80	Left Tilt	0	215	7025	0.10	0.065	12.41	13.00	1.146	96.42	1.037	0.077	0.482	1.028	0.589	/
WIFI 6E U- NII-8	ANT2	802.1 1ax80	Left Cheek	0	183	6865	-0.14	0.027	11.09	12.00	1.233	96.42	1.037	0.035	0.211	1.028	0.277	/

WIFI 6E U- NII-8	ANT2	802.1 1ax80	Left Tilt	0	183	6865	-0.09	0.027	11.09	12.00	1.233	96.42	1.037	0.035	0.218	1.028	0.287	/
WIFI 6E U- NII-8	ANT2	802.1 1ax80	Right Cheek	0	183	6865	-0.05	0.038	11.09	12.00	1.233	96.42	1.037	0.049	0.254	1.028	0.334	/
WIFI 6E U- NII-8	ANT2	802.1 1ax80	Right Tilt	0	183	6865	0.19	0.031	11.09	12.00	1.233	96.42	1.037	0.040	0.223	1.028	0.293	/
WIFI 6E U- NII-8	ANT2	802.1 1ax80	Right Cheek	0	199	6945	-0.04	0.031	10.44	11.00	1.138	96.42	1.037	0.037	0.211	1.028	0.256	/
WIFI 6E U- NII-8	ANT2	802.1 1ax80	Right Cheek	0	215	7025	-0.19	0.039	9.57	10.00	1.104	96.42	1.037	0.045	0.233	1.028	0.274	/

Band	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g 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 APD4cm2 [W/m2]	Meas. uncertainty Scaling Factor	Scaled APD [W/m2]	Meas. No.
Body																		
WIFI 6E U-NII-5	ANT3	802.11ax160	Front Side	5	15	6025	-0.16	0.018	14.21	15.00	1.199	97.86	1.022	0.022	0.133	1.028	0.168	/
WIFI 6E U-NII-5	ANT3	802.11ax160	Back Side	5	15	6025	0.00	0.030	14.21	15.00	1.199	97.86	1.022	0.037	0.211	1.028	0.266	/
WIFI 6E U-NII-5	ANT3	802.11ax160	Left Edge	5	15	6025	0.03	0.012	14.21	15.00	1.199	97.86	1.022	0.015	0.085	1.028	0.107	/
WIFI 6E U-NII-5	ANT3	802.11ax160	Right Edge	5	15	6025	0.01	0.036	14.21	15.00	1.199	97.86	1.022	0.044	0.249	1.028	0.314	15#
WIFI 6E U-NII-5	ANT3	802.11ax160	Top Edge	5	15	6025	0.17	0.022	14.21	15.00	1.199	97.86	1.022	0.027	0.179	1.028	0.225	/
WIFI 6E U-NII-5	ANT3	802.11ax160	Bottom Edge	5	15	6025	-0.02	0.015	14.21	15.00	1.199	97.86	1.022	0.018	0.062	1.028	0.078	/
WIFI 6E U-NII-5	ANT3	802.11ax160	Right Edge	5	47	6185	0.13	0.034	13.28	14.00	1.180	97.86	1.022	0.041	0.235	1.028	0.291	/
WIFI 6E U-NII-5	ANT3	802.11ax160	Right Edge	5	79	6345	0.16	0.039	12.91	13.00	1.021	97.86	1.022	0.041	0.242	1.028	0.260	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Front Side	5	79	6345	0.09	0.028	11.09	12.00	1.233	97.86	1.022	0.035	0.173	1.028	0.224	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Back Side	5	79	6345	0.09	0.033	11.09	12.00	1.233	97.86	1.022	0.042	0.213	1.028	0.276	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Left Edge	5	79	6345	0.08	0.011	11.09	12.00	1.233	97.86	1.022	0.014	0.051	1.028	0.066	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Right Edge	5	79	6345	-0.02	0.029	11.09	12.00	1.233	97.86	1.022	0.037	0.185	1.028	0.240	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Top Edge	5	79	6345	0.15	0.032	11.09	12.00	1.233	97.86	1.022	0.040	0.173	1.028	0.224	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Bottom Edge	5	79	6345	-0.12	0.013	11.09	12.00	1.233	97.86	1.022	0.016	0.047	1.028	0.061	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Front Side	5	15	6025	0.00	0.029	8.64	9.00	1.086	97.86	1.022	0.032	0.165	1.028	0.188	/
WIFI 6E U-NII-5	ANT2	802.11ax160	Front Side	5	47	6185	0.01	0.035	9.46	10.00	1.132	97.86	1.022	0.040	0.199	1.028	0.237	/
WIFI 6E U-NII-6	ANT3	802.11ax160	Front Side	5	111	6505	-0.08	0.049	16.57	17.00	1.104	97.86	1.022	0.055	0.385	1.028	0.447	/
WIFI 6E U-NII-6	ANT3	802.11ax160	Back Side	5	111	6505	0.07	0.231	16.57	17.00	1.104	97.86	1.022	0.261	1.870	1.028	2.169	16#

WIFI 6E U-NII-6	ANT3	802.11ax160	Left Edge	5	111	6505	-0.07	0.013	16.57	17.00	1.104	97.86	1.022	0.015	0.068	1.028	0.079	/
WIFI 6E U-NII-6	ANT3	802.11ax160	Right Edge	5	111	6505	0.13	0.137	16.57	17.00	1.104	97.86	1.022	0.155	1.090	1.028	1.264	/
WIFI 6E U-NII-6	ANT3	802.11ax160	Top Edge	5	111	6505	-0.14	0.090	16.57	17.00	1.104	97.86	1.022	0.102	0.715	1.028	0.829	/
WIFI 6E U-NII-6	ANT3	802.11ax160	Bottom Edge	5	111	6505	-0.11	0.012	16.57	17.00	1.104	97.86	1.022	0.014	0.051	1.028	0.059	/
WIFI 6E U-NII-6	ANT2	802.11ax160	Front Side	5	111	6505	0.12	0.025	14.57	15.50	1.239	97.86	1.022	0.032	0.216	1.028	0.281	/
WIFI 6E U-NII-6	ANT2	802.11ax160	Back Side	5	111	6505	0.06	0.031	14.57	15.50	1.239	97.86	1.022	0.039	0.255	1.028	0.332	/
WIFI 6E U-NII-6	ANT2	802.11ax160	Left Edge	5	111	6505	-0.19	0.010	14.57	15.50	1.239	97.86	1.022	0.013	0.042	1.028	0.055	/
WIFI 6E U-NII-6	ANT2	802.11ax160	Right Edge	5	111	6505	-0.17	0.026	14.57	15.50	1.239	97.86	1.022	0.033	0.228	1.028	0.297	/
WIFI 6E U-NII-6	ANT2	802.11ax160	Top Edge	5	111	6505	0.01	0.023	14.57	15.50	1.239	97.86	1.022	0.029	0.206	1.028	0.268	/
WIFI 6E U-NII-6	ANT2	802.11ax160	Bottom Edge	5	111	6505	0.17	0.015	14.57	15.50	1.239	97.86	1.022	0.019	0.063	1.028	0.082	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Front Side	5	135	6625	0.10	0.084	16.27	17.00	1.183	96.42	1.037	0.103	0.693	1.028	0.874	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Back Side	5	135	6625	0.07	0.426	16.27	17.00	1.183	96.42	1.037	0.523	3.480	1.028	4.389	17#
WIFI 6E U-NII-7	ANT3	802.11ax80	Left Edge	5	135	6625	-0.17	0.017	16.27	17.00	1.183	96.42	1.037	0.021	0.073	1.028	0.092	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Right Edge	5	135	6625	-0.03	0.208	16.27	17.00	1.183	96.42	1.037	0.255	1.700	1.028	2.144	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Top Edge	5	135	6625	-0.02	0.256	16.27	17.00	1.183	96.42	1.037	0.314	2.050	1.028	2.585	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Bottom Edge	5	135	6625	-0.12	0.015	16.27	17.00	1.183	96.42	1.037	0.018	0.081	1.028	0.102	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Back Side	5	151	6705	0.17	0.332	15.57	16.00	1.104	96.42	1.037	0.380	2.510	1.028	2.954	/
WIFI 6E U-NII-7	ANT3	802.11ax80	Back Side	5	167	6785	-0.10	0.141	13.90	14.00	1.023	96.42	1.037	0.150	1.110	1.028	1.211	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Front Side	5	135	6625	-0.09	0.012	14.35	14.50	1.035	96.42	1.037	0.013	0.092	1.028	0.102	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Back Side	5	135	6625	0.13	0.018	14.35	14.50	1.035	96.42	1.037	0.019	0.100	1.028	0.110	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Left Edge	5	135	6625	0.05	0.008	14.35	14.50	1.035	96.42	1.037	0.009	0.039	1.028	0.043	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Right Edge	5	135	6625	-0.05	0.016	14.35	14.50	1.035	96.42	1.037	0.017	0.071	1.028	0.078	/

WIFI 6E U-NII-7	ANT2	802.11ax80	Top Edge	5	135	6625	0.17	0.017	14.35	14.50	1.035	96.42	1.037	0.018	0.083	1.028	0.092	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Bottom Edge	5	135	6625	-0.11	0.005	14.35	14.50	1.035	96.42	1.037	0.005	0.032	1.028	0.035	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Back Side	5	151	6705	0.00	0.017	9.89	10.00	1.026	96.42	1.037	0.018	0.085	1.028	0.093	/
WIFI 6E U-NII-7	ANT2	802.11ax80	Back Side	5	167	6785	0.09	0.015	11.84	12.00	1.038	96.42	1.037	0.016	0.081	1.028	0.090	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Front Side	5	199	6945	0.08	0.030	12.88	13.00	1.028	96.42	1.037	0.032	0.182	1.028	0.199	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Back Side	5	199	6945	-0.13	0.032	12.88	13.00	1.028	96.42	1.037	0.034	0.185	1.028	0.203	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Left Edge	5	199	6945	-0.11	0.017	12.88	13.00	1.028	96.42	1.037	0.018	0.037	1.028	0.041	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Right Edge	5	199	6945	0.11	0.017	12.88	13.00	1.028	96.42	1.037	0.018	0.096	1.028	0.105	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Top Edge	5	199	6945	0.05	0.023	12.88	13.00	1.028	96.42	1.037	0.025	0.166	1.028	0.182	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Bottom Edge	5	199	6945	-0.05	0.013	12.88	13.00	1.028	96.42	1.037	0.014	0.018	1.028	0.020	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Back Side	5	183	6865	0.14	0.025	12.40	13.00	1.148	96.42	1.037	0.030	0.164	1.028	0.201	/
WIFI 6E U-NII-8	ANT3	802.11ax80	Back Side	5	215	7025	-0.07	0.026	12.41	13.00	1.146	96.42	1.037	0.031	0.158	1.028	0.193	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Front Side	5	183	6865	0.10	0.025	11.09	12.00	1.233	96.42	1.037	0.032	0.178	1.028	0.234	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Back Side	5	183	6865	0.05	0.037	11.09	12.00	1.233	96.42	1.037	0.047	0.228	1.028	0.300	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Left Edge	5	183	6865	-0.06	0.011	11.09	12.00	1.233	96.42	1.037	0.014	0.053	1.028	0.070	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Right Edge	5	183	6865	0.04	0.042	11.09	12.00	1.233	96.42	1.037	0.054	0.295	1.028	0.388	18#
WIFI 6E U-NII-8	ANT2	802.11ax80	Top Edge	5	183	6865	0.14	0.021	11.09	12.00	1.233	96.42	1.037	0.027	0.129	1.028	0.170	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Bottom Edge	5	183	6865	0.11	0.010	11.09	12.00	1.233	96.42	1.037	0.013	0.064	1.028	0.084	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Right Edge	5	199	6945	-0.13	0.027	10.44	11.00	1.138	96.42	1.037	0.032	0.191	1.028	0.232	/
WIFI 6E U-NII-8	ANT2	802.11ax80	Right Edge	5	215	7025	-0.08	0.019	9.57	10.00	1.104	96.42	1.037	0.022	0.138	1.028	0.162	/

10 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).

10.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body
1	WIFI 2.4G (ANT2) +WIFI 2.4G (ANT3) +WIFI 5G(ANT2) +WIFI 5G(ANT3)	Yes	Yes
2	WIFI 2.4G (ANT2) +WIFI 2.4G (ANT3) +WIFI 6G(ANT2) +WIFI 6G(ANT3)	Yes	Yes
3	WIFI 5G(ANT2) +WIFI 5G(ANT3) +BT (ANT3)	Yes	Yes
4	WIFI 6G(ANT2) +WIFI 6G(ANT3) +BT (ANT3)	Yes	Yes
Note: 1. The maximum SAR summation is calculated based on the same configuration and test position. 2. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.			

10.2 Head Simultaneous Transmission SAR Evaluation for WLAN 2.4G Or WLAN 5G and BT

Position	Stand alone SAR							SUM SAR			
	1	2	3	4	5	6	7				
	2.4G WIFI	2.4G WIFI	5G WIFI Max	5G WIFI Max	6G WIFI Max	6G WIFI Max	6G WIFI Max	(1+2+3+4)	(1+2+5+6)	(3+4+7)	(5+6+7)
	ANT2	ANT3	ANT2	ANT3	ANT2	ANT3	ANT3				
Left Cheek	0.100	0.079	0.127	0.114	0.099	0.099	0.127	0.420	0.377	0.368	0.325
Left Tilt	0.047	0.040	0.114	0.107	0.095	0.105	0.117	0.308	0.287	0.338	0.317
Right Cheek	0.044	0.037	0.047	0.038	0.087	0.094	0.108	0.166	0.262	0.193	0.289
Right Tilt	0.014	0.015	0.034	0.050	0.089	0.093	0.068	0.113	0.211	0.152	0.250
Note: 1: The highest Summed 1g SAR is 0.420 W/Kg<1.6 W/kg, so Simultaneous Transmission SAR test is not required.											

10.3 Body Simultaneous Transmission SAR Evaluation for WLAN 2.4G Or WLAN 5G and BT

Position	Stand alone SAR									SUM SAR			
	1			2			3	4	5				
	2.4G WIFI Max			5G WIFI Max			6G WIFI Max	6G WIFI Max	Bluetooth	(1+2)	(1+3+4)	(2+5)	(3+4+5)
	ANT2	ANT3	ANT.MIMO	ANT2	ANT3	ANT.MIMO	ANT2	ANT3	ANT3				
Front Side 5mm	0.034			0.122			0.035	0.103	0.040	0.156	0.172	0.162	0.178
Back Side 5mm	0.592			0.785			0.047	0.523	0.058	1.377	1.162	0.843	0.628
Left Edge 5mm	0.028			0.060			0.014	0.021	0.045	0.088	0.063	0.105	0.080
Right Edge 5mm	0.223			0.628			0.054	0.255	0.050	0.851	0.532	0.678	0.359
Top Edge 5mm	0.108			0.232			0.040	0.314	0.040	0.340	0.462	0.272	0.394
Bottom Edge 5mm	0.026			0.072			0.019	0.018	0.035	0.098	0.063	0.107	0.072
Note:													
1: The highest Summed 1g SAR is 1.377 W/Kg<1.6 W/kg, so Simultaneous Transmission SAR test is not required.													

11 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	2026/07/14	2027/07/13
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	SAM	SN: 2090	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 DAK 3.5 Dielectric Probe Kit.

Head Liquid

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 (%)
2026.07.18	Head	2450	21.4	1.82	38.86	1.80	39.20	1.11	-0.87
2026.07.20	Head	5250	21.2	4.71	36.20	4.71	35.93	0.00	0.75
2026.07.19	Head	5600	21.2	5.11	35.19	5.07	35.53	0.79	-0.96
2026.07.20	Head	5750	21.2	5.19	35.49	5.22	35.36	-0.57	0.37
2026.07.21	Head	6500	21.4	6.01	35.22	6.07	34.46	-0.99	2.21
2026.07.22	Head	6500	21.5	6.09	34.96	6.07	34.46	0.33	1.45

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 % (for 1 g).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2026.07.18	Head	2450	100	5.050	50.50	52.60	-3.99
2026.07.20	Head	5250	100	7.580	75.80	77.70	-2.45
2026.07.19	Head	5600	100	8.050	80.50	81.30	-0.98
2026.07.20	Head	5750	100	7.880	78.80	77.60	1.55
2026.07.21	Head	6500	100	29.500	295.00	299.00	-1.34
2026.07.22	Head	6500	100	30.200	302.00	299.00	1.00

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

Please refer the document "Ti-EE26060694-ASC-1.pdf".

ANNEX C TEST DATA

Please refer the document “Ti-EE26060694-ATD-1.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26060694-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “Ti-EE26060694-AS-1.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “Ti-EE26060694-AC-1.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “Ti-EE26060694-AT-1.pdf”.

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