

TEST REPORT

Applicant: CIPHERLAB CO., LTD.
Address: 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan
Equipment Type: Mobile Computer
Model Name: RS20
Brand Name: CIPHERLAB
FCC ID: Q3N-RS20
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Head (1 g@0mm): 0.46 W/kg
Body-worn (1 g@10mm): 1.13 W/kg
Hotspot (1 g@10mm): 1.13 W/kg
Sample Arrival Date: Jun. 30, 2026
Test Date: Jul. 12, 2026 - Jul. 31, 2026
Date of Issue: Aug. 24, 2026

**ISSUED BY:**

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Aug. 24, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name1	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address1	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

Name2	Shenzhen BALUN Technology Co., Ltd.
Address2	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen

1.2 Test Location

Name1	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location1	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate1	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

Name2	Shenzhen BALUN Technology Co., Ltd.
Location2	☐ 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

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	CIPHERLAB CO., LTD.
Address	12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan

2.2 Manufacturer Information

Manufacturer	CIPHERLAB CO., LTD.
Address	7F, No. 198 and 7F., No. 196, Sec. 3, Da Tong Road, Shiji Dist., New Taipei City 221, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Computer
Model Name Under Test	RS20
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	GR12660000084
Hardware Version	V00
Software Version	RS20.GMS.2010.20260721
Dimensions (Approx.)	L:153.8*W:71.3*H:16.5mm
Weight (Approx.)	198.9g

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	BA-0182A9
	Serial No.	BS20264000205
	Capacity	2900mAh
	Rated Voltage	3000mAh
	Limit Charge Voltage	3.87V

2.5 Technical Information

Network and Wireless connectivity	Bluetooth(BR+EDR+BLE 1M/2M) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HE20/40), 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80), 802.11ax(HE20/40/80), 5.8G SRD 6G WIFI 802.11ax(HE20/40/80) NFC
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WLAN; Bluetooth; NFC	
Frequency Range	2.4G WIFI	2412 ~ 2462 MHz
	5G WIFI	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	6G WIFI	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz
	Bluetooth	2402 ~ 2480 MHz
	NFC	13.56 MHz
Antenna Type	WLAN	PIFA Antenna
	Bluetooth	PIFA Antenna
	NFC	Coil 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 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 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
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

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

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn	Hotsopt	Head	Body-worn	Hotsopt
	(0mm)	(10mm)	(10mm)	(0mm)	(10mm)	(10mm)
	1g SAR			1g SAR		
Wi-Fi2.4G	0.46	0.31	0.31	0.46	1.13	1.13
Wi-Fi5G	0.20	1.13	1.13			
Wi-Fi6G	0.07	0.24	0.24			
Bluetooth	0.04	0.13	0.13			
Limit (W/kg)	1.6			1.6		
Verdict	Pass					
Note: The SAR data related to WIFI6G comes from Shenzhen BALUN Technology Co., Ltd.						

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)		
	Head 1g (0mm)	Body-worn 1g (10mm)	Hotspot 1g (10mm)
Wi-Fi&BT	0.63	1.44	1.44
Limit (W/kg)	1.6	1.6	1.6
Verdict	Pass		
Note: The highest simultaneous SAR please refer section 12			

3.4 Test Uncertainty

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

The maximum 1 g SAR for the EUT in this report is 1.13 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

3.5 Decision Rule

- ☐ No Need
- ☒ Use General Conformity Decision Rule
- ☐ Use Special Conformity Decision Rule

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

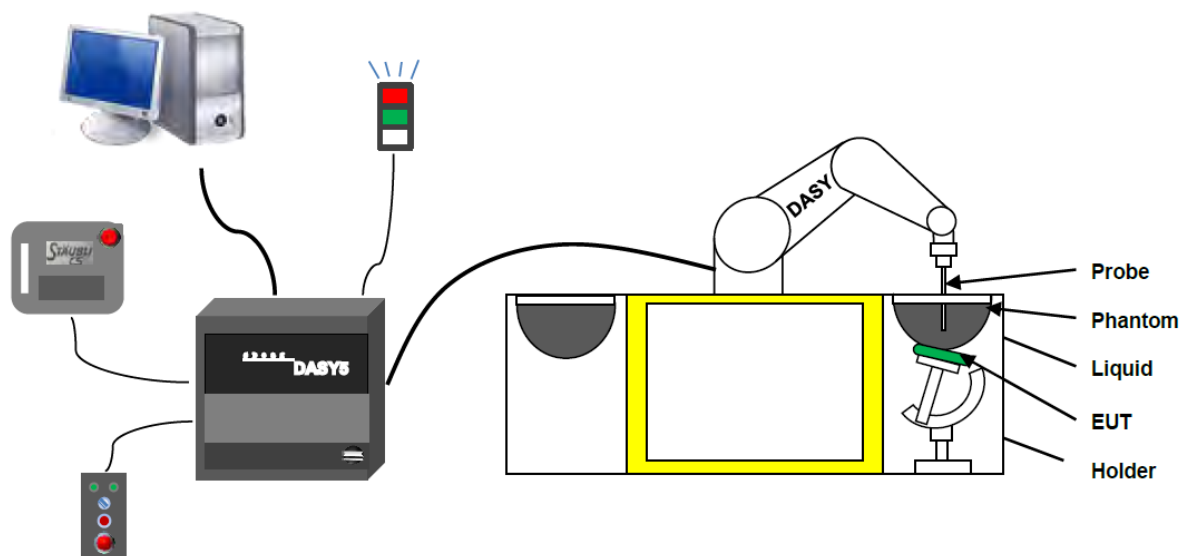
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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

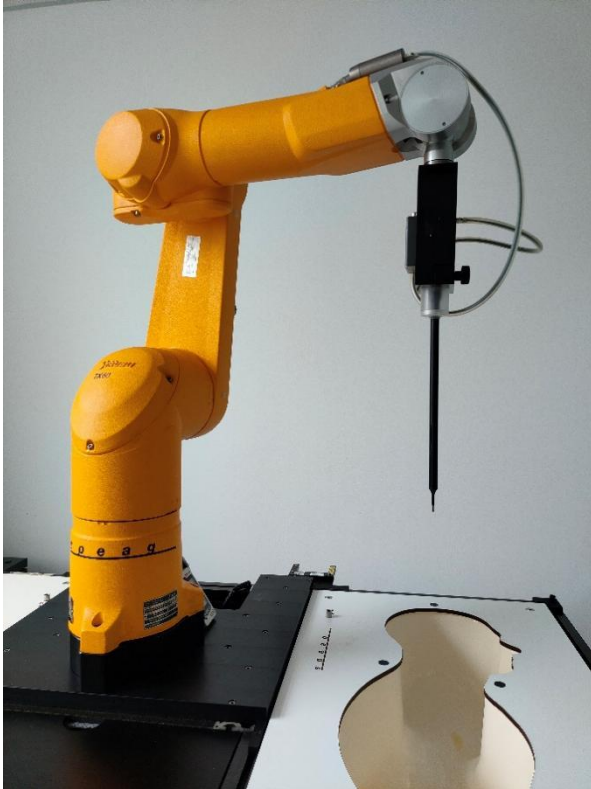


The DASY5 system for performing compliance tests consists of the following items:

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 DASY5 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

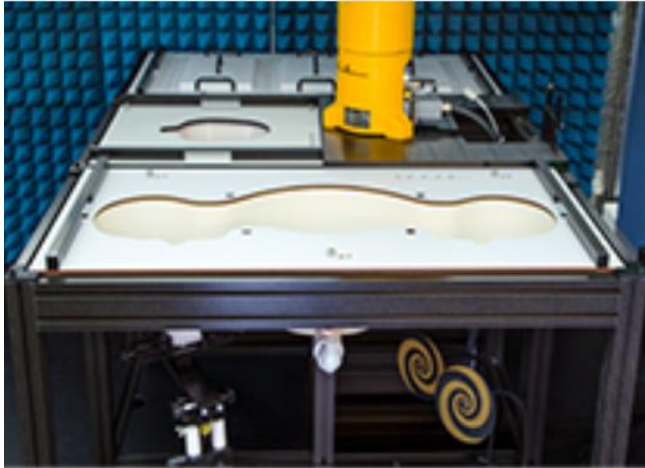
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M Ohm
- The Inputs: Symmetrical and Floating
- Common 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 head
- Right head
- Flat phantom



4.2.6 Device Holder

The DASY5 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.

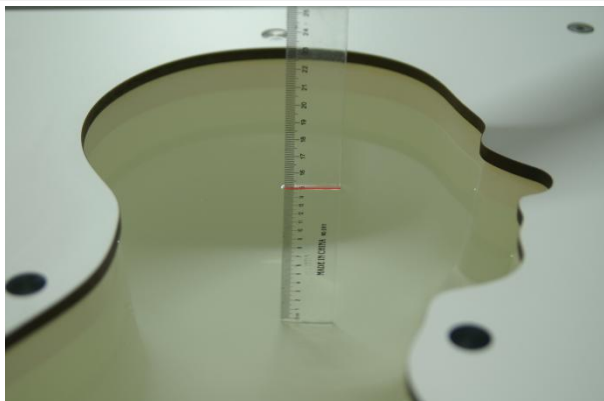


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

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

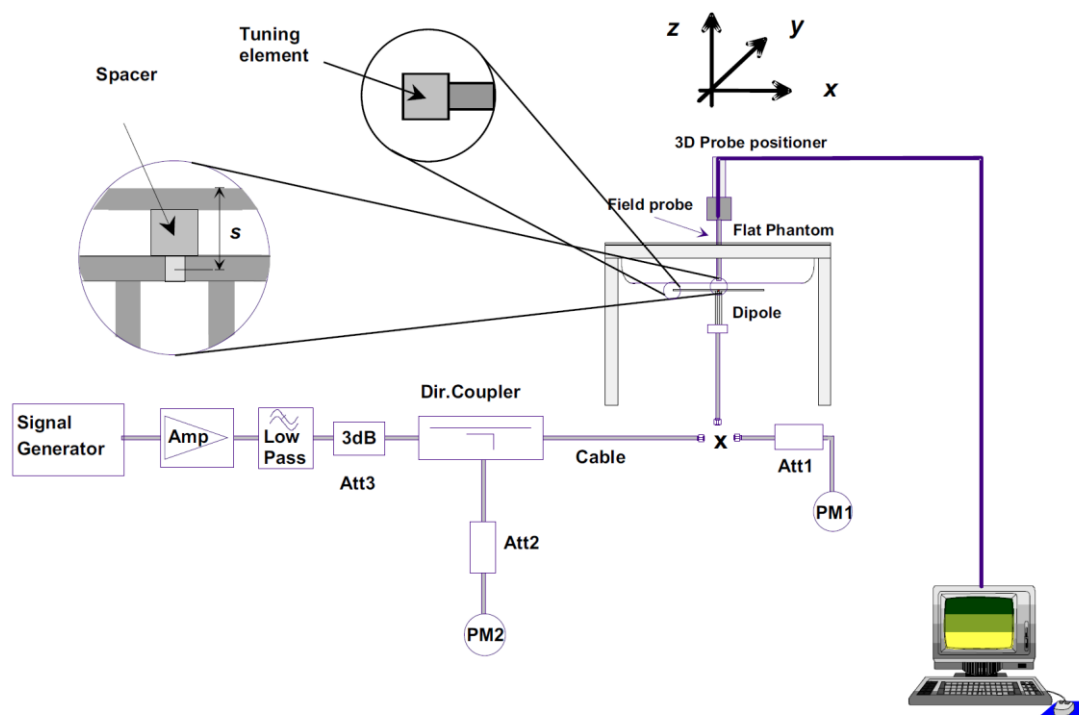
5 SYSTEM VERIFICATION

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

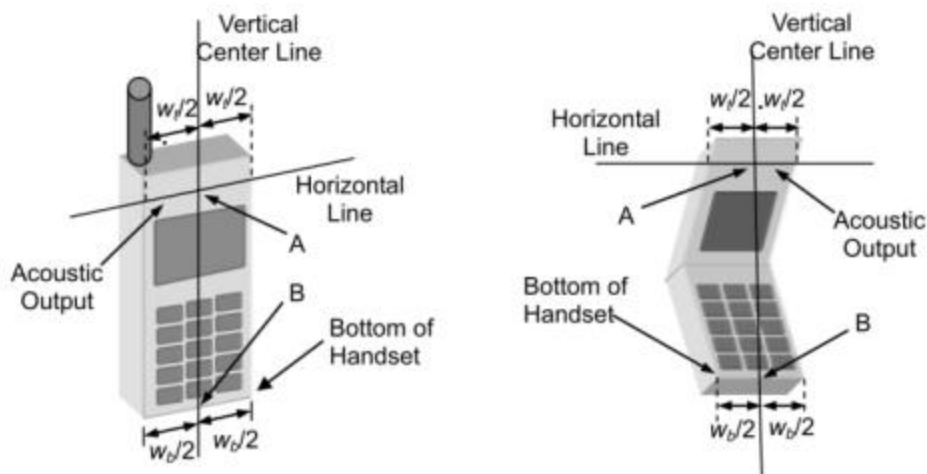
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

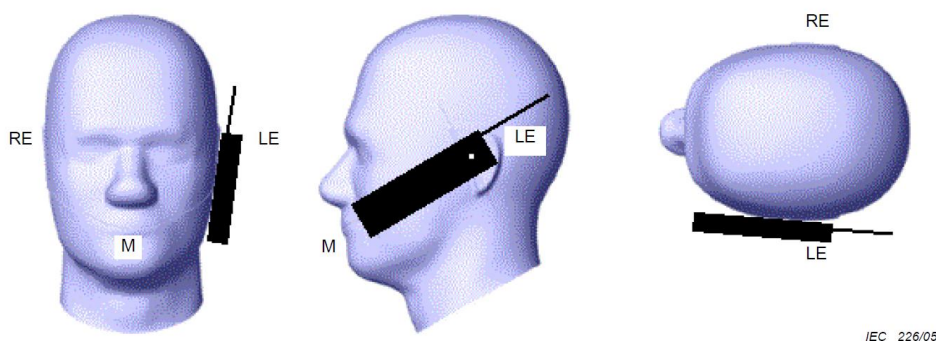
6.1.1 Two Imaginary Lines on the Handset

- 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.

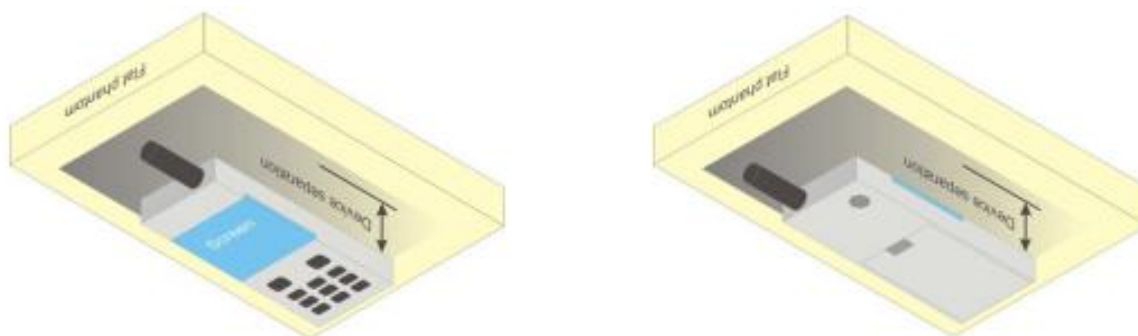


6.2 Body-worn Position Conditions

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.

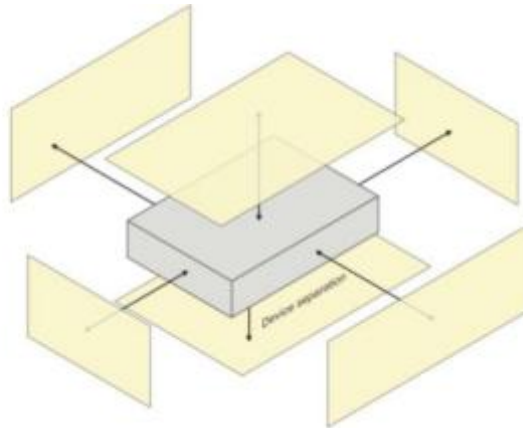
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



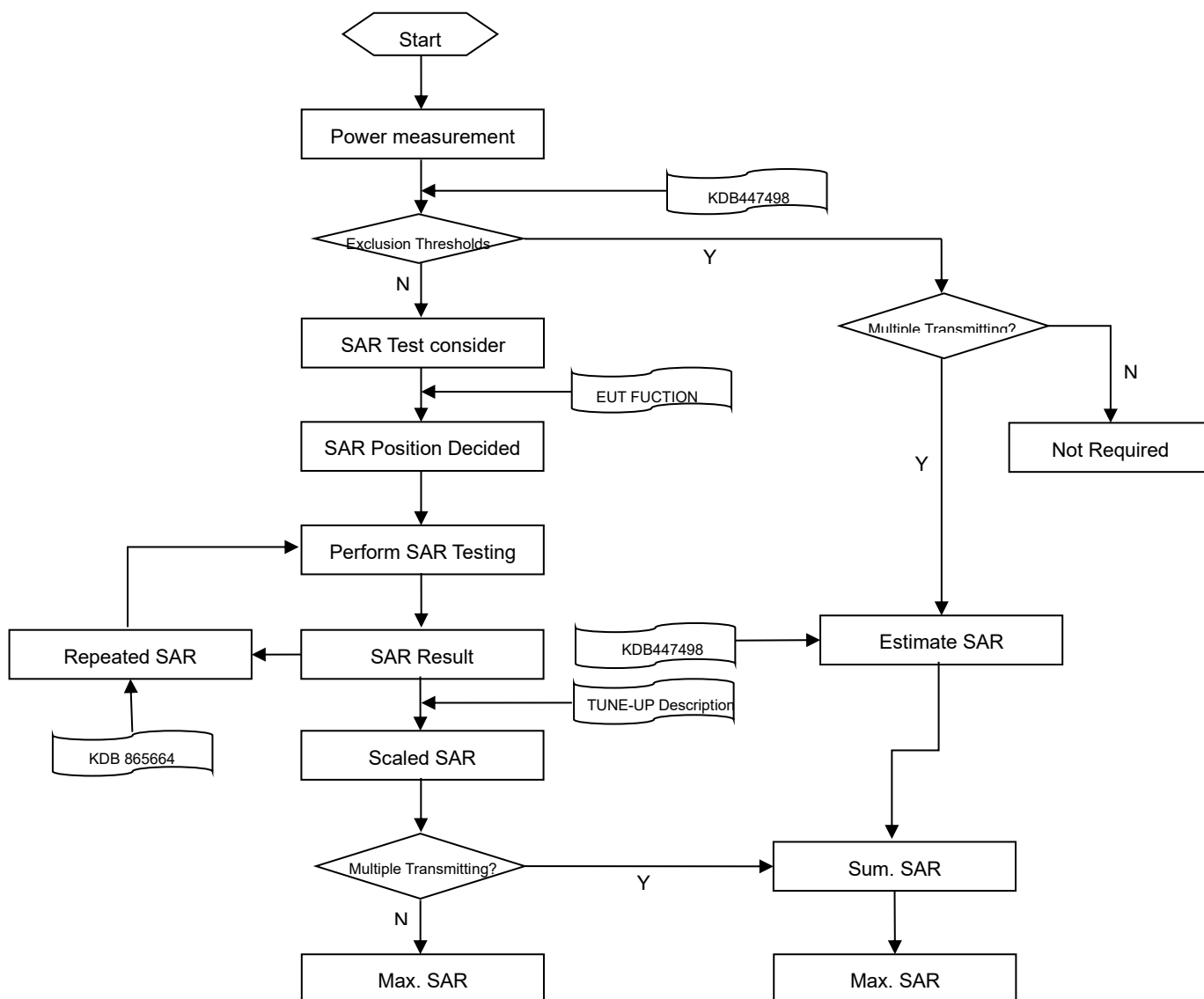
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

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 $\leq$ 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		$\leq 1.5 \cdot \Delta z$ 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

8.1 WIFI

8.1.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi2.4G Ant.1	802.11b	1	2412	16.81	18.00	No
		6	2437	17.06	18.00	Yes
		11	2462	17.04	18.00	No
	802.11g	1	2412	15.09	16.00	No
		6	2437	15.47	16.00	No
		11	2462	15.04	16.00	No
	802.11n(HT20)	1	2412	14.95	16.00	No
		6	2437	15.38	16.00	No
		11	2462	14.91	16.00	No
	802.11n(HT40)	3	2422	14.88	16.00	No
		6	2437	15.02	16.00	No
		9	2452	14.86	16.00	No
	802.11ax(HE20)	1	2412	11.81	13.00	No
		6	2437	11.75	13.00	No
		11	2462	12.02	13.00	No
	802.11ax(HE40)	3	2422	11.80	13.00	No
		6	2437	11.81	13.00	No
		9	2452	11.66	13.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi2.4G Ant.3	802.11b	1	2412	17.11	18.00	No
		6	2437	17.15	18.00	No
		11	2462	17.45	18.00	Yes
	802.11g	1	2412	15.31	16.00	No
		6	2437	15.52	16.00	No
		11	2462	15.11	16.00	No
	802.11n(HT20)	1	2412	14.95	16.00	No
		6	2437	15.39	16.00	No
		11	2462	15.04	16.00	No
	802.11n(HT40)	3	2422	14.86	16.00	No
		6	2437	15.20	16.00	No
		9	2452	15.14	16.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11ax(HE20)	1	2412	12.15	13.00	No
		6	2437	12.02	13.00	No
		11	2462	11.85	13.00	No
	802.11ax(HE40)	3	2422	11.93	13.00	No
		6	2437	12.06	13.00	No
		9	2452	11.71	13.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi2.4G MIMO	802.11b	1	2412	19.97	21.00	No
		6	2437	20.12	21.00	No
		11	2462	20.26	21.00	Yes
	802.11g	1	2412	18.21	19.00	No
		6	2437	18.51	19.00	No
		11	2462	18.09	19.00	No
	802.11n(HT20)	1	2412	17.96	19.00	No
		6	2437	18.40	19.00	No
		11	2462	17.99	19.00	No
	802.11n(HT40)	3	2422	17.88	19.00	No
		6	2437	18.12	19.00	No
		9	2452	18.01	19.00	No
	802.11ax(HE20)	1	2412	14.99	16.00	No
		6	2437	14.90	16.00	No
		11	2462	14.95	16.00	No
	802.11ax(HE40)	3	2422	14.88	16.00	No
		6	2437	14.95	16.00	No
		9	2452	14.70	16.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

8.1.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-1 Ant.1	802.11a	36	5180	6.79	8.00	No
		44	5220	7.07	8.00	No
		48	5240	7.16	8.00	No
	802.11n(HT20)	36	5180	6.62	8.00	No
		44	5220	6.88	8.00	No
		48	5240	7.12	8.00	No
	802.11n(HT40)	38	5190	6.97	8.00	No
		46	5230	7.18	8.00	No
	802.11ac(VHT20)	36	5180	6.71	8.00	No
		44	5220	7.08	8.00	No
		48	5240	6.90	8.00	No
	802.11ac(VHT40)	38	5190	7.25	8.50	No
		46	5230	7.08	8.50	No
	802.11ac(VHT80)	42	5210	7.28	8.50	Yes
	802.11ax(HE20)	36	5180	6.93	8.00	No
		44	5220	6.95	8.00	No
		48	5240	6.92	8.00	No
	802.11ax(HE40)	38	5190	7.29	8.50	No
		46	5230	7.44	8.50	No
	802.11ax(HE80)	42	5210	7.50	8.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-1 Ant.2	802.11a	36	5180	6.35	7.50	No
		44	5220	6.62	7.50	No
		48	5240	6.64	7.50	No
	802.11n(HT20)	36	5180	5.97	7.50	No
		44	5220	6.44	7.50	No
		48	5240	6.17	7.50	No
	802.11n(HT40)	38	5190	6.61	7.50	No
		46	5230	6.35	7.50	No
	802.11ac(VHT20)	36	5180	6.14	7.50	No
		44	5220	5.81	7.50	No
		48	5240	6.04	7.50	No
	802.11ac(VHT40)	38	5190	6.44	7.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11ac(VHT80)	46	5230	6.51	7.50	No
		42	5210	6.46	7.50	Yes
		36	5180	6.53	7.50	No
	802.11ax(HE20)	44	5220	6.29	7.50	No
		48	5240	6.22	7.50	No
		38	5190	6.49	7.50	No
	802.11ax(HE40)	46	5230	6.60	7.50	No
		42	5210	6.53	7.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-1 MIMO	802.11a	36	5180	9.59	10.50	No
		44	5220	9.87	10.50	No
		48	5240	9.92	10.50	No
	802.11n(HT20)	36	5180	9.32	10.50	No
		44	5220	9.68	10.50	No
		48	5240	9.69	10.50	No
	802.11n(HT40)	38	5190	9.80	10.50	No
		46	5230	9.79	10.50	No
	802.11ac(VHT20)	36	5180	9.45	10.50	No
		44	5220	9.51	10.50	No
		48	5240	9.51	10.50	No
	802.11ac(VHT40)	38	5190	9.87	11.00	No
		46	5230	9.81	11.00	No
	802.11ac(VHT80)	42	5210	9.90	11.00	Yes
	802.11ax(HE20)	36	5180	9.74	10.50	No
		44	5220	9.64	10.50	No
		48	5240	9.59	10.50	No
	802.11ax(HE40)	38	5190	9.91	11.00	No
		46	5230	10.05	11.00	No
	802.11ax(HE80)	42	5210	10.05	11.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-2A Ant.1	802.11a	52	5260	9.10	10.00	No
		60	5300	8.28	10.00	No
		64	5320	8.71	10.00	No
	802.11n(HT20)	52	5260	9.31	10.00	No
		60	5300	8.47	10.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11n(HT40)	64	5320	8.57	10.00	No
		54	5270	9.16	10.00	No
		62	5310	9.10	10.00	No
	802.11ac(VHT20)	52	5260	9.37	10.00	No
		60	5300	8.48	10.00	No
		64	5320	8.68	10.00	No
	802.11ac(VHT40)	54	5270	9.20	10.00	No
		62	5310	8.69	10.00	No
	802.11ac(VHT80)	58	5290	8.90	10.00	No
	802.11ax(HE20)	52	5260	9.53	10.50	No
		60	5300	8.91	10.50	No
		64	5320	9.22	10.50	No
	802.11ax(HE40)	54	5270	9.58	10.50	No
		62	5310	9.32	10.50	No
	802.11ax(HE80)	58	5290	9.54	10.50	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-2A Ant.2	802.11a	52	5260	8.47	9.50	No
		60	5300	8.10	9.50	No
		64	5320	8.26	9.50	No
	802.11n(HT20)	52	5260	8.27	9.50	No
		60	5300	8.21	9.50	No
		64	5320	8.05	9.50	No
	802.11n(HT40)	54	5270	8.25	9.50	No
		62	5310	8.33	9.50	No
	802.11ac(VHT20)	52	5260	7.90	9.50	No
		60	5300	7.84	9.50	No
		64	5320	8.07	9.50	No
	802.11ac(VHT40)	54	5270	7.88	9.50	No
		62	5310	8.29	9.50	No
	802.11ac(VHT80)	58	5290	8.64	9.50	No
	802.11ax(HE20)	52	5260	8.53	10.00	No
		60	5300	8.64	10.00	No
		64	5320	8.55	10.00	No
	802.11ax(HE40)	54	5270	8.66	10.00	No
		62	5310	8.87	10.00	No
	802.11ax(HE80)	58	5290	8.85	10.00	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-2A MIMO	802.11a	52	5260	11.81	12.50	No
		60	5300	11.21	12.50	No
		64	5320	11.51	12.50	No
	802.11n(HT20)	52	5260	11.84	12.50	No
		60	5300	11.36	12.50	No
		64	5320	11.33	12.50	No
	802.11n(HT40)	54	5270	11.74	12.50	No
		62	5310	11.74	12.50	No
	802.11ac(VHT20)	52	5260	11.71	12.50	No
		60	5300	11.19	12.50	No
		64	5320	11.40	12.50	No
	802.11ac(VHT40)	54	5270	11.60	12.50	No
		62	5310	11.50	12.50	No
	802.11ac(VHT80)	58	5290	11.78	12.50	No
	802.11ax(HE20)	52	5260	12.07	13.00	No
		60	5300	11.79	13.00	No
		64	5320	11.91	13.00	No
	802.11ax(HE40)	54	5270	12.15	13.00	No
		62	5310	12.11	13.00	No
	802.11ax(HE80)	58	5290	12.22	13.00	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-2C Ant.1	802.11a	100	5500	9.87	11.00	No
		116	5580	9.90	11.00	No
		140	5700	10.30	11.00	No
	802.11n(HT20)	100	5500	9.87	11.00	No
		116	5580	9.81	11.00	No
		140	5700	10.25	11.00	No
	802.11n(HT40)	102	5510	10.49	11.50	No
		118	5590	10.10	11.50	No
		134	5670	10.55	11.50	No
	802.11ac(VHT20)	100	5500	9.87	11.00	No
		116	5580	9.83	11.00	No
		140	5700	10.23	11.00	No
	802.11ac(VHT40)	102	5510	10.65	11.50	No
		118	5590	10.11	11.50	No
		134	5670	10.56	11.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11ac(VHT80)	106	5530	10.63	11.50	No
		122	5610	10.30	11.50	No
	802.11ax(HE20)	100	5500	10.47	11.50	No
		116	5580	9.95	11.50	No
		140	5700	10.74	11.50	No
	802.11ax(HE40)	102	5510	10.99	11.50	No
		118	5590	10.49	11.50	No
		134	5670	11.21	11.50	No
	802.11ax(HE80)	106	5530	11.31	12.50	Yes
		122	5610	10.60	11.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-2C Ant.2	802.11a	100	5500	9.04	10.00	No
		116	5580	9.38	10.00	No
		140	5700	8.69	10.00	No
	802.11n(HT20)	100	5500	9.2	10.00	No
		116	5580	9.18	10.00	No
		140	5700	8.53	10.00	No
	802.11n(HT40)	102	5510	9.69	10.50	No
		118	5590	9.55	10.50	No
		134	5670	9.19	10.50	No
	802.11ac(VHT20)	100	5500	9.28	10.00	No
		116	5580	9.28	10.00	No
		140	5700	8.62	10.00	No
	802.11ac(VHT40)	102	5510	9.37	10.50	No
		118	5590	9.94	10.50	No
		134	5670	9.17	10.50	No
	802.11ac(VHT80)	106	5530	9.83	10.50	No
		122	5610	9.60	10.50	No
	802.11ax(HE20)	100	5500	9.96	10.50	No
		116	5580	9.51	10.50	No
		140	5700	9.13	10.50	No
	802.11ax(HE40)	102	5510	10.25	11.00	No
		118	5590	10.00	11.00	No
		134	5670	9.66	11.00	No
	802.11ax(HE80)	106	5530	10.57	11.50	Yes
		122	5610	10.15	11.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-2C MIMO	802.11a	100	5500	12.49	13.50	No
		116	5580	12.66	13.50	No
		140	5700	12.58	13.50	No
	802.11n(HT20)	100	5500	12.56	13.50	No
		116	5580	12.52	13.50	No
		140	5700	12.49	13.50	No
	802.11n(HT40)	102	5510	13.11	14.00	No
		118	5590	12.84	14.00	No
		134	5670	12.93	14.00	No
	802.11ac(VHT20)	100	5500	12.60	13.50	No
		116	5580	12.58	13.50	No
		140	5700	12.51	13.50	No
	802.11ac(VHT40)	102	5510	13.06	14.00	No
		118	5590	13.03	14.00	No
		134	5670	12.93	14.00	No
	802.11ac(VHT80)	106	5530	13.26	14.00	No
		122	5610	12.97	14.00	No
	802.11ax(HE20)	100	5500	13.23	14.00	No
		116	5580	12.74	14.00	No
		140	5700	13.02	14.00	No
	802.11ax(HE40)	102	5510	13.64	14.00	No
		118	5590	13.26	14.00	No
		134	5670	13.51	14.00	No
	802.11ax(HE80)	106	5530	13.96	15.00	Yes
		122	5610	13.39	14.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-3 Ant.1	802.11a	149	5745	13.24	14.00	No
		157	5785	13.36	14.00	No
		165	5825	13.18	14.00	No
	802.11n(HT20)	149	5745	13.41	14.00	No
		157	5785	13.23	14.00	No
		165	5825	12.98	14.00	No
	802.11n(HT40)	151	5755	13.19	14.00	No
		159	5795	13.44	14.50	Yes
	802.11ac(VHT20)	149	5745	13.20	14.00	No
		157	5785	13.27	14.00	No
		165	5825	13.07	14.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11ac(VHT40)	151	5755	13.35	14.50	No
		159	5795	13.46	14.50	No
	802.11ac(VHT80)	155	5775	13.39	14.00	No
	802.11ax(HE20)	149	5745	13.73	14.00	No
		157	5785	13.27	14.00	No
		165	5825	13.16	14.00	No
	802.11ax(HE40)	151	5755	13.67	14.50	No
		159	5795	13.87	14.50	No
	802.11ax(HE80)	155	5775	13.74	14.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-3 Ant.2	802.11a	149	5745	11.98	13.00	No
		157	5785	12.15	13.00	No
		165	5825	11.93	13.00	No
	802.11n(HT20)	149	5745	12.23	13.00	No
		157	5785	12.09	13.00	No
		165	5825	11.97	13.00	No
	802.11n(HT40)	151	5755	12.22	13.00	No
		159	5795	12.38	13.50	Yes
	802.11ac(VHT20)	149	5745	12.00	13.00	No
		157	5785	12.13	13.00	No
		165	5825	11.83	13.00	No
	802.11ac(VHT40)	151	5755	12.18	13.50	No
		159	5795	12.40	13.50	No
	802.11ac(VHT80)	155	5775	12.01	13.00	No
	802.11ax(HE20)	149	5745	12.50	13.00	No
		157	5785	12.37	13.00	No
		165	5825	12.02	13.00	No
	802.11ax(HE40)	151	5755	12.73	13.50	No
		159	5795	12.58	13.50	No
	802.11ax(HE80)	155	5775	12.52	13.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi5G U-NII-3 MIMO	802.11a	149	5745	15.67	16.50	No
		157	5785	15.81	16.50	No
		165	5825	15.61	16.50	No
	802.11n(HT20)	149	5745	15.87	16.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
		157	5785	15.71	16.50	No
		165	5825	15.52	16.50	No
	802.11n(HT40)	151	5755	15.74	16.50	No
		159	5795	15.95	17.00	Yes
	802.11ac(VHT20)	149	5745	15.66	16.50	No
		157	5785	15.75	16.50	No
		165	5825	15.51	16.50	No
	802.11ac(VHT40)	151	5755	15.81	17.00	No
		159	5795	15.97	17.00	No
	802.11ac(VHT80)	155	5775	15.76	16.50	No
	802.11ax(HE20)	149	5745	16.17	16.50	No
		157	5785	15.85	16.50	No
		165	5825	15.64	16.50	No
	802.11ax(HE40)	151	5755	16.23	17.00	No
		159	5795	16.28	17.00	No
	802.11ax(HE80)	155	5775	16.18	16.50	No

8.1.3 6G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi6G U-NII-5 Ant.1	802.11ax(HE20)	1	5955	3.02	4.00	No
		45	6175	2.83	3.00	No
		93	6415	1.46	2.00	No
	802.11ax(HE40)	3	5965	5.19	6.00	No
		43	6165	5.04	6.00	No
		91	6405	4.07	5.00	No
	802.11ax(HE80)	7	5985	8.08	9.00	Yes
		39	6145	8.21	9.00	Yes
		87	6385	7.12	8.00	No
Wi-Fi6G U-NII-6 Ant.1	802.11ax(HE20)	97	6435	1.78	3.00	No
		105	6475	1.72	3.00	No
		113	6515	1.21	3.00	No
	802.11ax(HE40)	99	6445	4.14	5.00	No
		107	6485	4.15	5.00	No
		115	6525	3.99	5.00	No
	802.11ax(HE80)	103	6465	7.10	8.00	No
		119	6545	6.93	8.00	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi6G U-NII-7 Ant.1	802.11ax(HE20)	117	6535	1.15	3.00	No
		153	6715	2.84	3.00	No
		181	6855	3.00	4.00	No
	802.11ax(HE40)	123	6565	4.06	6.00	No
		155	6725	5.24	6.00	No
		179	6845	5.22	6.00	No
	802.11ax(HE80)	135	6625	6.82	8.00	No
		151	6705	8.27	9.00	Yes
		167	6785	8.25	9.00	No
Wi-Fi6G U-NII-8 Ant.1	802.11ax(HE20)	185	6875	3.57	4.00	No
		213	7015	3.96	4.00	No
		229	7095	3.65	4.00	No
		233	7115	3.64	4.00	No
	802.11ax(HE40)	187	6885	5.79	6.00	No
		211	7005	6.09	7.00	No
		227	7085	6.18	7.00	No
	802.11ax(HE80)	183	6865	8.49	9.00	No
		199	6945	9.04	10.00	No
		215	7025	9.23	10.00	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi6G U-NII-5 Ant.2	802.11ax(HE20)	1	5955	3.04	4.00	No
		45	6175	1.32	3.00	No
		93	6415	1.57	2.00	No
	802.11ax(HE40)	3	5965	5.53	6.00	No
		43	6165	3.85	5.00	No
		91	6405	3.76	5.00	No
	802.11ax(HE80)	7	5985	8.53	9.00	Yes
		39	6145	7.06	9.00	No
		87	6385	7.52	8.00	Yes
Wi-Fi6G U-NII-6 Ant.2	802.11ax(HE20)	97	6435	2.16	3.00	No
		105	6475	1.90	3.00	No
		113	6515	2.03	3.00	No
	802.11ax(HE40)	99	6445	4.43	5.00	No
		107	6485	4.69	5.00	No
		115	6525	4.51	5.00	No
	802.11ax(HE80)	103	6465	7.52	8.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
		119	6545	7.51	8.00	Yes
Wi-Fi6G U-NII-7 Ant.2	802.11ax(HE20)	117	6535	2.09	3.00	No
		153	6715	1.09	3.00	No
		181	6855	2.72	4.00	No
	802.11ax(HE40)	123	6565	4.35	6.00	No
		155	6725	3.43	5.00	No
		179	6845	4.94	6.00	No
	802.11ax(HE80)	135	6625	7.14	8.00	No
		151	6705	6.75	8.00	No
		167	6785	7.14	8.00	Yes
Wi-Fi6G U-NII-8 Ant.2	802.11ax(HE20)	185	6875	2.46	4.00	No
		213	7015	1.31	3.00	No
		229	7095	2.86	4.00	No
		233	7115	3.37	4.00	No
	802.11ax(HE40)	187	6885	4.97	6.00	No
		211	7005	4.26	6.00	No
		227	7085	4.63	6.00	No
	802.11ax(HE80)	183	6865	7.61	8.00	Yes
		199	6945	6.55	8.00	No
		215	7025	6.18	8.00	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
Wi-Fi6G U-NII-5 MIMO	802.11ax(HE20)	1	5955	6.04	7.00	No
		45	6175	5.15	6.00	No
		93	6415	4.53	5.00	No
	802.11ax(HE40)	3	5965	8.37	9.00	No
		43	6165	7.50	8.50	No
		91	6405	6.93	8.00	No
	802.11ax(HE80)	7	5985	11.32	12.00	No
		39	6145	10.68	12.00	No
		87	6385	10.33	11.00	No
Wi-Fi6G U-NII-6 MIMO	802.11ax(HE20)	97	6435	4.98	6.00	No
		105	6475	4.82	6.00	No
		113	6515	4.65	6.00	No
	802.11ax(HE40)	99	6445	7.30	8.00	No
		107	6485	7.44	8.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11ax(HE80)	115	6525	7.27	8.00	No
		103	6465	10.33	11.00	No
		119	6545	10.24	11.00	No
Wi-Fi6G U-NII-7 MIMO	802.11ax(HE20)	117	6535	4.66	6.00	No
		153	6715	5.06	6.00	No
		181	6855	5.87	7.00	No
	802.11ax(HE40)	123	6565	7.22	9.00	No
		155	6725	7.44	8.50	No
		179	6845	8.09	9.00	No
	802.11ax(HE80)	135	6625	9.99	11.00	No
		151	6705	10.59	11.00	No
		167	6785	10.74	11.00	No
Wi-Fi6G U-NII-8 MIMO	802.11ax(HE20)	185	6875	6.06	7.00	No
		213	7015	5.84	6.50	No
		229	7095	6.28	7.00	No
		233	7115	6.52	7.00	No
	802.11ax(HE40)	187	6885	8.41	9.00	No
		211	7005	8.28	9.50	No
		227	7085	8.48	9.50	No
	802.11ax(HE80)	183	6865	11.08	12.00	No
		199	6945	10.98	12.00	No
		215	7025	10.98	12.00	No

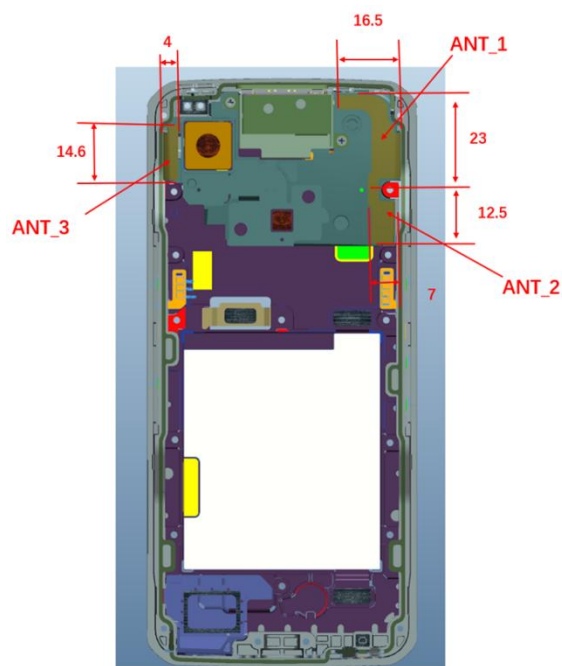
8.2 Bluetooth

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
Bluetooth Ant.1	GFSK	0	2402	3.74	4.50	No
		39	2441	4.39	5.50	Yes
		78	2480	3.46	4.50	No
	$\pi/4$ -DQPSK	0	2402	3.23	4.50	No
		39	2441	3.76	4.50	No
		78	2480	2.93	4.00	No
	8-DPSK	0	2402	3.71	4.50	No
		39	2441	4.22	5.00	No
		78	2480	3.43	4.50	No
	BLE-1M	0	2402	3.34	4.50	No
		19	2440	4.02	5.00	No
		39	2480	3.13	4.00	No

	BLE-2M	1	2404	3.39	4.50	No
		19	2440	4.04	5.00	No
		38	2478	3.74	4.50	No

Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using LE modulation, and SAR measurement is not required for the BDR and EDR. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

9 Antenna Location



Antenna	Support Bands
Ant.1	Wi-Fi2.4G/Wi-Fi5G/Wi-Fi6G BT
Ant.2	Wi-Fi5G/Wi-Fi6G
Ant.3	WIFI 2.4G

10 TEST RESULT

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

10.1 WIFI

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi 2.4G	Head														
	Ant. 1	Left Cheek	0mm	11b	6	2437	0.04	0.191	17.06	18.00	1.242	99.19	1.008	0.239	
		Left Tilt			6	2437	0.05	0.142	17.06	18.00	1.242	99.19	1.008	0.178	
		Right Cheek			6	2437	-0.18	0.296	17.06	18.00	1.242	99.19	1.008	0.371	
		Right Tilt			6	2437	-0.09	0.227	17.06	18.00	1.242	99.19	1.008	0.284	
	Ant.3	Left Cheek	0mm	11b	11	2462	0.03	0.352	17.45	18.00	1.135	99.19	1.008	0.403	
		Left Tilt			11	2462	0.17	0.180	17.45	18.00	1.135	99.19	1.008	0.206	
		Right Cheek			11	2462	-0.15	0.168	17.45	18.00	1.135	99.19	1.008	0.192	
		Right Tilt			11	2462	0.06	0.151	17.45	18.00	1.135	99.19	1.008	0.173	
	MIMO	Left cheek	0mm	11b	11	2462	-0.11	0.360	20.26	21.00	1.186	99.19	1.008	0.430	
		Left Tilt			11	2462	-0.15	0.320	20.26	21.00	1.186	99.19	1.008	0.383	
		Right Cheek			11	2462	-0.12	0.382	20.26	21.00	1.186	99.19	1.008	0.457	1
		Right Tilt			11	2462	-0.15	0.364	20.26	21.00	1.186	99.19	1.008	0.435	
	Body-worn& Hotspot														
	Ant. 1	Front Side	10mm	11b	6	2437	0.03	0.104	17.06	18.00	1.242	99.19	1.008	0.130	
		Back Side			6	2437	-0.02	0.228	17.06	18.00	1.242	99.19	1.008	0.285	
		Left Side			6	2437	0.14	0.169	17.06	18.00	1.242	99.19	1.008	0.212	
		Right Side			6	2437	0.08	0.032	17.06	18.00	1.242	99.19	1.008	0.040	
		Top Side			6	2437	-0.12	0.173	17.06	18.00	1.242	99.19	1.008	0.217	
		Bottom Side			6	2437	-0.14	0.031	17.06	18.00	1.242	99.19	1.008	0.039	
	Ant.3	Front Side	10mm	11b	11	2462	0.13	0.086	17.45	18.00	1.135	99.19	1.008	0.098	
		Back Side			11	2462	0.15	0.135	17.45	18.00	1.135	99.19	1.008	0.154	
		Left Side			11	2462	0.03	0.042	17.45	18.00	1.135	99.19	1.008	0.048	
		Right Side			11	2462	0.11	0.205	17.45	18.00	1.135	99.19	1.008	0.235	
		Top Side			11	2462	0.10	0.059	17.45	18.00	1.135	99.19	1.008	0.068	
		Bottom Side			11	2462	0.18	0.033	17.45	18.00	1.135	99.19	1.008	0.038	
	MIMO	Front Side	10mm	11b	11	2462	0.13	0.175	20.26	21.00	1.186	99.19	1.008	0.209	
		Back Side			11	2462	-0.10	0.257	20.26	21.00	1.186	99.19	1.008	0.307	2
		Left Side			11	2462	-0.05	0.175	20.26	21.00	1.186	99.19	1.008	0.209	
		Right Side			11	2462	-0.02	0.239	20.26	21.00	1.186	99.19	1.008	0.286	
		Top Side			11	2462	0.11	0.220	20.26	21.00	1.186	99.19	1.008	0.263	
Bottom Side		11			2462	0.10	0.043	20.26	21.00	1.186	99.19	1.008	0.051		

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.	
Wi-Fi U-NII-1	Head															
	Ant. 1	Left Cheek	0mm	11ac80	42	5210	-0.16	0.017	7.28	8.50	1.324	88.03	1.136	0.026		
		Left Tilt			42	5210	0.05	0.023	7.28	8.50	1.324	88.03	1.136	0.035		
		Right Cheek			42	5210	0.16	0.015	7.28	8.50	1.324	88.03	1.136	0.023		
		Right Tilt			42	5210	-0.19	0.012	7.28	8.50	1.324	88.03	1.136	0.018		
	Ant. 2	Left Cheek	0mm	11ac80	42	5210	-0.13	0.020	6.46	7.50	1.271	88.03	1.136	0.029		
		Left Tilt			42	5210	0.12	0.025	6.46	7.50	1.271	88.03	1.136	0.036		
		Right Cheek			42	5210	0.02	0.016	6.46	7.50	1.271	88.03	1.136	0.023		
		Right Tilt			42	5210	0.17	0.013	6.46	7.50	1.271	88.03	1.136	0.019		
	MIMO	Left Cheek	0mm	11ac80	42	5210	-0.06	0.024	9.90	11.00	1.288	88.03	1.136	0.035		
		Left Tilt			42	5210	0.13	0.022	9.90	11.00	1.288	88.03	1.136	0.032		
		Right Cheek			42	5210	0.14	0.022	9.90	11.00	1.288	88.03	1.136	0.032		
		Right Tilt			42	5210	0.11	0.031	9.90	11.00	1.288	88.03	1.136	0.045	3	
	Body-worn& Hotspot															
	Ant. 1	Front Side	10mm	11ac80	42	5210	0.09	0.072	7.28	8.50	1.324	88.03	1.136	0.108		
		Back Side			42	5210	0.12	0.220	7.28	8.50	1.324	88.03	1.136	0.331		
		Left Side			42	5210	-0.13	0.104	7.28	8.50	1.324	88.03	1.136	0.156		
		Right Side			42	5210	-0.10	0.086	7.28	8.50	1.324	88.03	1.136	0.129		
		Top Side			42	5210	0.05	0.077	7.28	8.50	1.324	88.03	1.136	0.116		
		Bottom Side			42	5210	-0.02	0.045	7.28	8.50	1.324	88.03	1.136	0.068		
	Ant. 2	Front Side	10mm	11ac80	42	5210	-0.06	0.073	6.46	7.50	1.271	88.03	1.136	0.105		
		Back Side			42	5210	0.03	0.031	6.46	7.50	1.271	88.03	1.136	0.045		
		Left Side			42	5210	0.11	0.092	6.46	7.50	1.271	88.03	1.136	0.133		
		Right Side			42	5210	-0.07	0.072	6.46	7.50	1.271	88.03	1.136	0.104		
		Top Side			42	5210	-0.05	0.076	6.46	7.50	1.271	88.03	1.136	0.110		
		Bottom Side			42	5210	-0.17	0.083	6.46	7.50	1.271	88.03	1.136	0.120		
	MIMO	Front Side	10mm	11ac80	42	5210	0.12	0.043	9.90	11.00	1.288	88.03	1.136	0.063		
		Back Side			42	5210	0.04	0.288	9.90	11.00	1.288	88.03	1.136	0.422	4	
		Left Side			42	5210	-0.19	0.122	9.90	11.00	1.288	88.03	1.136	0.179		
		Right Side			42	5210	0.16	0.097	9.90	11.00	1.288	88.03	1.136	0.142		
		Top Side			42	5210	-0.03	0.067	9.90	11.00	1.288	88.03	1.136	0.098		
Bottom Side		42			5210	0.15	0.035	9.90	11.00	1.288	88.03	1.136	0.051			

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi U-NII-2A	Head														
	Ant.1	Left Cheek	0mm	11ax80	58	5290	-0.10	0.030	9.54	10.50	1.248	86.53	1.156	0.043	
		Left Tilt			58	5290	-0.07	0.020	9.54	10.50	1.248	86.53	1.156	0.029	
		Right Cheek			58	5290	0.15	0.018	9.54	10.50	1.248	86.53	1.156	0.026	
		Right Tilt			58	5290	-0.18	0.014	9.54	10.50	1.248	86.53	1.156	0.020	
	Ant.2	Left Cheek	0mm	11ax80	58	5290	-0.04	0.022	8.85	10.00	1.304	86.53	1.156	0.033	
		Left Tilt			58	5290	0.05	0.015	8.85	10.00	1.304	86.53	1.156	0.023	
		Right Cheek			58	5290	0.13	0.025	8.85	10.00	1.304	86.53	1.156	0.038	
		Right Tilt			58	5290	0.02	0.010	8.85	10.00	1.304	86.53	1.156	0.015	
	MIMO	Left Cheek	0mm	11ax80	58	5290	0.05	0.043	12.22	13.00	1.198	86.53	1.156	0.060	
		Left Tilt			58	5290	0.02	0.030	12.22	13.00	1.198	86.53	1.156	0.042	
		Right Cheek			58	5290	-0.03	0.054	12.22	13.00	1.198	86.53	1.156	0.074	5
		Right Tilt			58	5290	-0.18	0.028	12.22	13.00	1.198	86.53	1.156	0.039	
	Body-worn& Hotspot														
	Ant.1	Front Side	10mm	11ax80	58	5290	0.01	0.031	9.54	10.50	1.248	86.53	1.156	0.045	
		Back Side			58	5290	-0.14	0.382	9.54	10.50	1.248	86.53	1.156	0.551	
		Left Side			58	5290	-0.10	0.163	9.54	10.50	1.248	86.53	1.156	0.235	
		Right Side			58	5290	0.08	0.041	9.54	10.50	1.248	86.53	1.156	0.059	
		Top Side			58	5290	0.13	0.099	9.54	10.50	1.248	86.53	1.156	0.143	
		Bottom Side			58	5290	-0.08	0.031	9.54	10.50	1.248	86.53	1.156	0.045	
	Ant.2	Front Side	10mm	11ax80	58	5290	0.17	0.075	8.85	10.00	1.304	86.53	1.156	0.113	
		Back Side			58	5290	0.13	0.043	8.85	10.00	1.304	86.53	1.156	0.065	
		Left Side			58	5290	0.18	0.031	8.85	10.00	1.304	86.53	1.156	0.047	
		Right Side			58	5290	0.06	0.044	8.85	10.00	1.304	86.53	1.156	0.066	
		Top Side			58	5290	-0.19	0.035	8.85	10.00	1.304	86.53	1.156	0.053	
		Bottom Side			58	5290	0.19	0.076	8.85	10.00	1.304	86.53	1.156	0.115	
	MIMO	Front Side	10mm	11ax80	58	5290	0.10	0.075	12.22	13.00	1.198	86.53	1.156	0.104	
		Back Side			58	5290	0.16	0.578	12.22	13.00	1.198	86.53	1.156	0.800	6
		Left Side			58	5290	-0.14	0.174	12.22	13.00	1.198	86.53	1.156	0.241	
		Right Side			58	5290	-0.18	0.042	12.22	13.00	1.198	86.53	1.156	0.058	
		Top Side			58	5290	-0.06	0.094	12.22	13.00	1.198	86.53	1.156	0.130	
		Bottom Side			58	5290	0.11	0.076	12.22	13.00	1.198	86.53	1.156	0.105	

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.		
Wi-Fi U-NII-2C	Head																
	Ant.1	Left Cheek	0mm	11ax80		106	5530	0.03	0.047	11.31	12.50	1.316	86.53	1.156	0.071		
		Left Tilt				106	5530	0.08	0.032	11.31	12.50	1.316	86.53	1.156	0.049		
		Right Cheek				106	5530	0.16	0.034	11.31	12.50	1.316	86.53	1.156	0.052		
		Right Tilt				106	5530	-0.01	0.033	11.31	12.50	1.316	86.53	1.156	0.050		
	Ant.2	Left Cheek	0mm	11ax80		106	5530	-0.15	0.047	10.57	11.50	1.239	86.53	1.156	0.067		
		Left Tilt				106	5530	-0.10	0.032	10.57	11.50	1.239	86.53	1.156	0.046		
		Right Cheek				106	5530	-0.08	0.029	10.57	11.50	1.239	86.53	1.156	0.042		
		Right Tilt				106	5530	-0.13	0.026	10.57	11.50	1.239	86.53	1.156	0.037		
	MIMO	Left Cheek	0mm	11ax80		106	5530	0.16	0.062	13.96	15.00	1.269	86.53	1.156	0.091		
		Left Tilt				106	5530	0.16	0.048	13.96	15.00	1.269	86.53	1.156	0.070		
		Right Cheek				106	5530	0.12	0.092	13.96	15.00	1.269	86.53	1.156	0.135	7	
		Right Tilt				106	5530	-0.16	0.072	13.96	15.00	1.269	86.53	1.156	0.105		
	Body-worn& Hotspot																
	Ant.1	Front Side	10mm	11ax80		106	5530	0.07	0.086	11.31	12.50	1.316	86.53	1.156	0.131		
		Back Side				106	5530	-0.08	0.493	11.31	12.50	1.316	86.53	1.156	0.750	8	
		Left Side				106	5530	-0.15	0.123	11.31	12.50	1.316	86.53	1.156	0.187		
		Right Side				106	5530	-0.05	0.082	11.31	12.50	1.316	86.53	1.156	0.125		
		Top Side				106	5530	0.07	0.077	11.31	12.50	1.316	86.53	1.156	0.117		
		Bottom Side				106	5530	0.19	0.076	11.31	12.50	1.316	86.53	1.156	0.116		
		Ant.2	Front Side	10mm	11ax80		106	5530	-0.17	0.042	10.57	11.50	1.239	86.53	1.156	0.060	
			Back Side				106	5530	0.05	0.101	10.57	11.50	1.239	86.53	1.156	0.145	
			Left Side				106	5530	0.03	0.072	10.57	11.50	1.239	86.53	1.156	0.103	
			Right Side				106	5530	-0.10	0.071	10.57	11.50	1.239	86.53	1.156	0.102	
			Top Side				106	5530	-0.17	0.065	10.57	11.50	1.239	86.53	1.156	0.093	
			Bottom Side				106	5530	0.18	0.082	10.57	11.50	1.239	86.53	1.156	0.117	
		MIMO	Front Side	10mm	11ax80		106	5530	0.13	0.083	13.96	15.00	1.269	86.53	1.156	0.122	
			Back Side				106	5530	0.01	0.317	13.96	15.00	1.269	86.53	1.156	0.465	
			Left Side				106	5530	0.15	0.121	13.96	15.00	1.269	86.53	1.156	0.178	
			Right Side				106	5530	-0.05	0.084	13.96	15.00	1.269	86.53	1.156	0.123	
			Top Side				106	5530	-0.12	0.041	13.96	15.00	1.269	86.53	1.156	0.060	
			Bottom Side				106	5530	0.07	0.044	13.96	15.00	1.269	86.53	1.156	0.065	

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.	
Wi-Fi U-NII-3	Head															
	Ant. 1	Left Cheek	0mm	11n40		159	5795	-0.19	0.084	13.44	14.50	1.278	93.38	1.071	0.115	
		Left Tilt				159	5795	0.17	0.079	13.44	14.50	1.278	93.38	1.071	0.108	
		Right Cheek				159	5795	-0.01	0.071	13.44	14.50	1.278	93.38	1.071	0.097	
		Right Tilt				159	5795	-0.18	0.045	13.44	14.50	1.278	93.38	1.071	0.062	
	Ant. 2	Left Cheek	0mm	11n40		159	5795	-0.09	0.047	12.38	13.50	1.295	93.38	1.071	0.065	
		Left Tilt				159	5795	0.11	0.042	12.38	13.50	1.295	93.38	1.071	0.058	
		Right Cheek				159	5795	-0.08	0.065	12.38	13.50	1.295	93.38	1.071	0.090	
		Right Tilt				159	5795	0.10	0.036	12.38	13.50	1.295	93.38	1.071	0.050	
	MIMO	Left Cheek	0mm	11n40		159	5795	0.13	0.144	15.95	17.00	1.274	93.38	1.071	0.196	9
		Left Tilt				159	5795	0.07	0.103	15.95	17.00	1.274	93.38	1.071	0.141	
		Right Cheek				159	5795	0.01	0.095	15.95	17.00	1.274	93.38	1.071	0.130	
		Right Tilt				159	5795	0.08	0.087	15.95	17.00	1.274	93.38	1.071	0.119	
	Body-worn& Hotspot															
	Ant. 1	Front Side	10mm	11n40		159	5795	0.14	0.083	13.44	14.50	1.278	93.38	1.071	0.114	
		Back Side				159	5795	-0.03	0.667	13.44	14.50	1.278	93.38	1.071	0.913	
		Left Side				159	5795	-0.10	0.220	13.44	14.50	1.278	93.38	1.071	0.301	
		Right Side				159	5795	-0.14	0.102	13.44	14.50	1.278	93.38	1.071	0.140	
		Top Side				159	5795	0.02	0.044	13.44	14.50	1.278	93.38	1.071	0.060	
		Bottom Side				159	5795	0.19	0.087	13.44	14.50	1.278	93.38	1.071	0.119	
		Back Side	10mm	11n40		151	5755	-0.07	0.589	19.09	20.50	1.384	93.38	1.071	0.873	
		Front Side				159	5795	-0.09	0.042	12.38	13.50	1.295	93.38	1.071	0.058	
		Back Side				159	5795	-0.04	0.183	12.38	13.50	1.295	93.38	1.071	0.254	
		Left Side				159	5795	-0.11	0.113	12.38	13.50	1.295	93.38	1.071	0.157	
		Right Side				159	5795	0.11	0.093	12.38	13.50	1.295	93.38	1.071	0.129	
		Top Side				159	5795	0.06	0.077	12.38	13.50	1.295	93.38	1.071	0.107	
		Bottom Side				159	5795	-0.08	0.076	12.38	13.50	1.295	93.38	1.071	0.105	
		Front Side			10mm	11n40		159	5795	-0.03	0.092	15.95	17.00	1.274	93.38	1.071
	Back Side		159	5795			0.08	0.828	15.95	17.00	1.274	93.38	1.071	1.130	10	
	Left Side		159	5795			0.05	0.232	15.95	17.00	1.274	93.38	1.071	0.317		
	Right Side		159	5795			-0.04	0.046	15.95	17.00	1.274	93.38	1.071	0.063		
	Top Side		159	5795			0.14	0.168	15.95	17.00	1.274	93.38	1.071	0.229		
	Bottom Side		159	5795			0.05	0.081	15.95	17.00	1.274	93.38	1.071	0.111		
	Back Side		151	5755			-0.13	0.567	15.74	16.50	1.192	93.38	1.071	0.724		
	Back Side		159	5795			0.06	0.817	15.95	17.00	1.274	93.38	1.071	1.115	Repeat	

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Measured APD4cm2 [W/m2]	Meas. uncertainty Scaling Factor	Scaled APD [W/m2]	Meas. No.			
Wi-Fi 6G	Ant.1	Head	0mm	11ax80	215	7025	0.13	0.015	9.23	10.00	1.194	86.10	1.161	0.021	0.133	1.028	0.190				
		Left Tilt			215	7025	0.07	0.027	9.23	10.00	1.194	86.10	1.161	0.037	0.229	1.028	0.326				
		Right Cheek			215	7025	0.14	0.020	9.23	10.00	1.194	86.10	1.161	0.028	0.152	1.028	0.217				
		Right Tilt			215	7025	0.03	0.047	9.23	10.00	1.194	86.10	1.161	0.065	0.394	1.028	0.562	11			
		Right Tilt			7	5985	-0.18	0.036	8.08	9.00	1.236	86.10	1.161	0.052	0.311	1.028	0.459				
		Right Tilt			39	6145	0.19	0.046	8.21	9.00	1.199	86.10	1.161	0.064	0.352	1.028	0.504				
		Right Tilt			119	6545	0.17	0.039	6.93	8.00	1.279	86.10	1.161	0.058	0.319	1.028	0.487				
		Right Tilt			151	6705	-0.19	0.036	8.27	9.00	1.183	86.10	1.161	0.049	0.347	1.028	0.490				
		Left Cheek			7	5985	-0.16	0.038	8.53	9.00	1.114	86.10	1.161	0.049	0.284	1.028	0.378				
		Left Tilt			7	5985	0.12	0.025	8.53	9.00	1.114	86.10	1.161	0.032	0.188	1.028	0.250				
		Right Cheek			7	5985	0.01	0.017	8.53	9.00	1.114	86.10	1.161	0.022	0.137	1.028	0.182				
	Ant.2	Right Tilt	0mm	11ax80	7	5985	-0.07	0.012	8.53	9.00	1.114	86.10	1.161	0.016	0.065	1.028	0.086				
		Left Cheek			87	6385	-0.13	0.037	7.52	8.00	1.117	86.10	1.161	0.048	0.277	1.028	0.369				
		Left Tilt			119	6545	0.02	0.040	7.51	8.00	1.119	86.10	1.161	0.052	0.291	1.028	0.389				
		Left Cheek			151	6705	0.13	0.024	7.14	8.00	1.214	86.10	1.161	0.034	0.193	1.028	0.281				
		Left Tilt			167	6785	-0.07	0.024	7.61	8.00	1.094	86.10	1.161	0.030	0.157	1.028	0.205				
		Left Cheek			215	7025	-0.08	0.026	6.18	8.00	1.521	86.10	1.161	0.046	0.198	1.028	0.359				
		Body-worn& Hotspot																			
		Ant.1			Front Side	10mm	11ax80	215	7025	0.15	0.076	9.23	10.00	1.194	86.10	1.161	0.105	0.533	1.028	0.760	
					Back Side			215	7025	-0.17	0.095	9.23	10.00	1.194	86.10	1.161	0.132	0.692	1.028	0.986	
					Left Side			215	7025	-0.16	0.046	9.23	10.00	1.194	86.10	1.161	0.064	0.315	1.028	0.449	
					Right Side			215	7025	-0.05	0.030	9.23	10.00	1.194	86.10	1.161	0.042	0.223	1.028	0.318	
	Top Side		215	7025	0.01			0.055	9.23	10.00	1.194	86.10	1.161	0.076	0.387	1.028	0.552				
	Bottom Side		215	7025	-0.13			0.026	9.23	10.00	1.194	86.10	1.161	0.036	0.175	1.028	0.249				
	Back Side		7	5985	0.04			0.144	8.08	9.00	1.236	86.10	1.161	0.207	1.130	1.028	1.668				
	Back Side		39	6145	0.05			0.170	8.21	9.00	1.199	86.10	1.161	0.237	1.230	1.028	1.762	12			
	Back Side		119	6545	0.06			0.131	6.93	8.00	1.279	86.10	1.161	0.195	1.020	1.028	1.558				
	Back Side		151	6705	0.03			0.133	8.27	9.00	1.183	86.10	1.161	0.183	0.980	1.028	1.384				
	Ant.2		Front Side	10mm	11ax80			7	5985	-0.06	0.028	8.53	9.00	1.114	86.10	1.161	0.036	0.177	1.028	0.235	
		Back Side	7			5985	0.18	0.033	8.53	9.00	1.114	86.10	1.161	0.043	0.193	1.028	0.257				
		Left Side	7			5985	0.01	0.031	8.53	9.00	1.114	86.10	1.161	0.040	0.183	1.028	0.243				
		Right Side	7			5985	0.07	0.019	8.53	9.00	1.114	86.10	1.161	0.025	0.123	1.028	0.164				
		Top Side	7			5985	-0.06	0.026	8.53	9.00	1.114	86.10	1.161	0.034	0.175	1.028	0.233				
		Bottom Side	7			5985	-0.13	0.022	8.53	9.00	1.114	86.10	1.161	0.028	0.155	1.028	0.206				
		Back Side	87			6385	0.00	0.035	7.52	8.00	1.117	86.10	1.161	0.045	0.226	1.028	0.301				
		Back Side	119			6545	0.12	0.033	7.51	8.00	1.119	86.10	1.161	0.043	0.208	1.028	0.278				
		Back Side	151			6705	-0.11	0.025	6.75	8.00	1.334	86.10	1.161	0.039	0.171	1.028	0.272				
		Back Side	167			6785	0.12	0.024	7.14	8.00	1.219	86.10	1.161	0.034	0.162	1.028	0.236				
Back Side		215	7025			0.02	0.021	7.14	8.00	1.219	86.10	1.161	0.030	0.147	1.028	0.214					

10.3 NFC

1. According to the 2022.04 TCBC Workshop meeting, the power threshold is $\leq 100\text{MHz}$, refer to P6s.

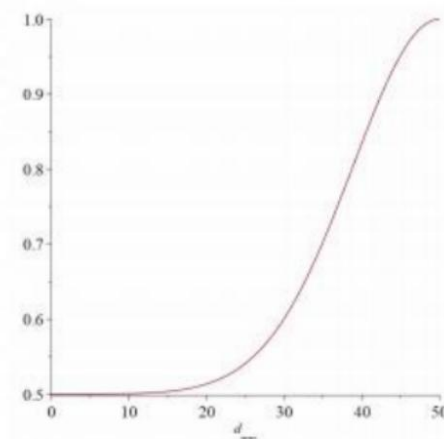
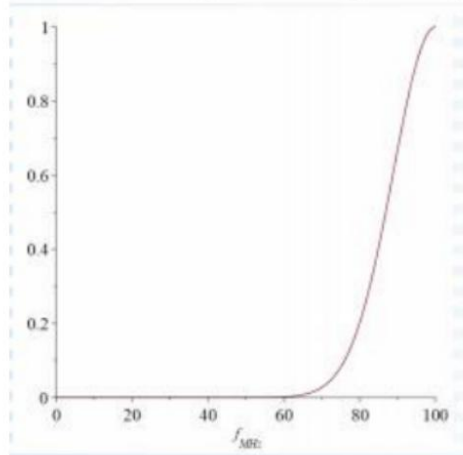
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

2. For portable products, when using a distance of $\leq 50\text{mm}$, such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) P_{431b1}(50., 100.) \cdot \left(1 + \log_{10}\left(\frac{100.}{f_{MHz}}\right)\right) \quad d_{mm} \leq 50 \text{ and } f_{MHz} \leq 100$$

3. The smoothing functions Sf and Sd in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.

$$S_f(f_{MHz}) := \exp\left(-10 \frac{(f_{MHz} - f_{max})^2}{\Delta f^2}\right) \quad S_d(d_{mm}) := 0.5 + 0.5 \cdot \exp\left(-10 \frac{(d_{mm} - d_{max})^2}{\Delta d^2}\right)$$



d≤50mm				
f Max(MHz)	100		d Max(mm)	50
f MHz	13.56		d(mm)	5
△f(MHz)	100		△d	50
S _f (f _{MHz})	0.000568861		S _d (dmm)	0.50015177
P6s(mW)	443.1257378			
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.				

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship: $E = ERP - 20\log D + 104.8$

where:

E = electric field strength in dB μ V/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dB μ V/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	56.42	3	6	-32.84
Note: 1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz). 2. $ERP = 56.42 + 20 \cdot \log(3) - 104.8 + 6 = -32.84$ (dBm)					

According to the FCC KDB 447498 D04

Estimated SAR: $SAR_{test} = 1.6 \cdot P_{ant} / P_{th}$ [W/kg]

Estimated SAR	$1.6 \cdot P_{ant} / P_{th}$ [W/kg]		
P _{meas.} (dBm)	-32.84	P _{meas.} (mW)	0.001
P _{th.} (mW)	443.13		
NFC Estimated 1g SAR [W/kg]	<0.01		

11 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Radio
5795	Wi-Fi U-NII-3	Body-worn & Hotspot	Back Side	0.828	Yes	0.817	1.01
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement. is not required.							

12 SIMULTANEOUS TRANSMISSION

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

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot
1	Wi-Fi2.4G+ Wi-Fi5G	Yes	Yes	Yes
2	Wi-Fi2.4G+ Wi-Fi6G	Yes	Yes	Yes
3	Wi-Fi5G+ BT	Yes	Yes	Yes
4	Wi-Fi6G+ BT	Yes	Yes	Yes

Note:

1. WLAN2.4G can't transmit simultaneously with Bluetooth; WLAN5G can't transmit simultaneously with WLAN6G;
2. The maximum SAR summation is calculated based on the same configuration and test position.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Sum Head SAR of Simultaneous Transmission

Position	Stand alone SAR					SUM SAR			
	1	2	3	4	5				
	Wi-Fi2.4G	Wi-Fi5G	Wi-Fi6G Ant.1	Wi-Fi6G Ant.2	Bluetooth	1+2	1+3+4	2+5	3+4+5
Left Cheek	0.430	0.196	0.021	0.052	0.035	0.627	0.503	0.231	0.108
Left Tilt	0.383	0.141	0.037	0.032	0.030	0.523	0.452	0.171	0.100
Right Cheek	0.457	0.135	0.028	0.022	0.022	0.592	0.506	0.157	0.072
Right Tilt	0.435	0.119	0.065	0.016	0.030	0.554	0.516	0.149	0.111

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.627W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Sum Body-worn& Hotspot SAR of Simultaneous Transmission

Position	Dist.	Stand alone SAR					SUM SAR			
		1	2	3	4	5				
		Wi-Fi2.4G	Wi-Fi5G	Wi-Fi6G Ant.1	Wi-Fi6G Ant.2	Bluetooth	1+2	1+3+4	2+5	3+4+5
Front Side	10mm	0.209	0.131	0.105	0.036	0.084	0.340	0.351	0.215	0.226
Back Side	10mm	0.307	1.130	0.237	0.045	0.131	1.437	0.589	1.261	0.413
Left Side	10mm	0.212	0.317	0.064	0.040	0.069	0.528	0.315	0.386	0.173
Right Side	10mm	0.286	0.142	0.042	0.025	0.116	0.428	0.352	0.258	0.182
Top Side	10mm	0.263	0.229	0.076	0.034	0.074	0.492	0.373	0.303	0.184
Bottom Side	10mm	0.051	0.120	0.036	0.028	0.044	0.171	0.116	0.164	0.109

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.437W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_s} \left(\frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field,k}}{MPE_{field,lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD,k}}{MPE_{PD,lim}} \right)$$

The maximum SAR value for Simultaneous Transmission is 1.44 [W/kg]. Therefore, the worst TER =(1.44+0.01)/1.6 =0.91,the NFC SAR transmit simultaneously Pass.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.10.4.1535	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	1065	2024/09/05	2027/09/05
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/04	2027/09/04
Data Acquisition Electronics	Speag	DAE4	540	2026/07/13	2027/07/13
E-Field Probe	Speag	EX3DV4	3748	2026/07/13	2027/07/13
Signal Generator	R&S	SMB100A	182635	2026/02/03	2027/02/03
Power Meter	Agilent	E4419B	MY45104512	2026/02/03	2027/02/03
Power Sensor	Agilent	E9304A	MY41499059	2026/02/03	2027/02/03
Power Sensor	Agilent	E9304A	MY41499060	2026/02/03	2027/02/03
Network Analyzer	Agilent	E5071C	MY56301409	2026/02/03	2027/02/03
Test Software	Agilent	2132/11/28	E04.02.13	N/A	N/A
Dielectric Probe Kit	Keysight	85070E	MY44300524	N/A	N/A
Thermometer	CEM	DT-322	210402350	2026/01/28	2027/01/28
Thermometer	Elitech	RC-4HC	EF7247001275	2026/01/28	2027/01/28
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Keysight	85070E	MY44300524	N/A	N/A
Phantom	Speag	SAM	1857	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A

Note: For dipole antennas, Tejet 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.

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
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2024/05/28	2027/05/27
Data Acquisition Electronics	Speag	DAE4	SN: 1711	2025/11/11	2026/11/10
E-Field Probe	Speag	EX3DV4	SN: 7607	2025/08/06	2026/08/05
Signal Generator	Keysight	N5173B	MY62150163	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	EF720B004813	2025/10/30	2026/10/29
Thermometer	Elitech	RC-4HC	EF720B004817	2025/10/30	2026/10/29

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
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: 5. There is no physical damage on the dipole; 6. System validation with specific dipole is within 10% of calibrated value; 7. Return-loss in within 20% of calibrated measurement. 8. 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 an 85070E& DAK3.5 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 (%)
2026.7.27	Head	2450	21.6	1.79	40.27	1.80	39.20	-0.56	2.73
2026.7.28	Head	5200	21.8	4.72	35.58	4.66	35.99	1.29	-1.14
2026.7.29	Head	5300	21.1	4.83	35.38	4.76	35.87	1.47	-1.37
2026.7.30	Head	5600	20.8	5.20	34.70	5.07	35.53	2.56	-2.34
2026.7.31	Head	5800	21.4	5.46	34.26	5.27	35.30	3.61	-2.95
2026.7.12	Head	6500	21.5	6.05	34.90	6.07	34.46	-0.33	1.28
2026.7.13	Head	6500	21.2	5.96	34.72	6.07	34.46	-1.81	0.75

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 (%)
2026.7.27	Head	2450	100	5.430	54.30	52.60	3.23
2026.7.28	Head	5200	100	7.350	73.50	77.80	-5.53
2026.7.29	Head	5300	100	7.530	75.30	79.00	-4.68
2026.7.30	Head	5600	100	8.560	85.60	82.80	3.38
2026.7.31	Head	5800	100	7.900	79.00	78.50	0.64
2026.7.12	Head	6500	100	30.600	306.00	299.00	2.34
2026.7.13	Head	6500	100	30.500	305.00	299.00	2.01

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

Please refer the document "Ti-CC26060546-ASC.pdf".

ANNEX C TEST DATA

Please refer the document "Ti-CC26060546-ATD.pdf".

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "Ti-CC26060546-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "Ti-CC26060546-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "Ti-CC26060546-AC.pdf".

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--END OF REPORT--