

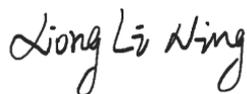
TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Tablet Computer
Model Name: 25079RPDCG
Brand Name: Xiaomi
FCC ID: 2AFZZRPDCG
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Body (1 g): 1.05 W/kg
Sample Arrival Date: Apr. 26, 2025
Test Date: May 07, 2025 - May 10, 2025
Date of Issue: Jun. 5, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining



Checked by: Xu Rui



Approved by: Tolan Tu
(Testing Director)



Revision History		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jun. 5, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input checked="" type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
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	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet Computer
Model Name Under Test	25079RPDCG
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	1351P2402
Software Version	Xiaomi HyperOS 2.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Please refer the document "BL-SZ2541436-AW EUT external photo.pdf".

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n20, 802.11ax20, 802.11be20 5G WIFI 802.1a, 802.11n20/n40, 802.11ac20/40/80/160, 802.11ax20/40/80/160, 802.11be20/40/80/160 WPT
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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, Bluetooth	
Frequency Range	802.11b/g/n(HT20)	2412 MHz ~ 2462 MHz
	802.11ax(HE20)	2412 MHz ~ 2462 MHz
	802.11be(HE20)	2412 MHz ~ 2462 MHz
	802.11a/n(HT20/HT40)/ac(VHT20/VHT40/VHT80/VHT160)/ax(HE20/ HE40/ HE80/ HE160)be(EHT20/ EHT40/EHT80/EHT160)	5150 MHz ~ 5250 MHz
		5250 MHz ~ 5350 MHz
		5470 MHz ~ 5725 MHz
Bluetooth	2402 MHz ~ 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	<input checked="" type="checkbox"/> Production unit	<input type="checkbox"/> Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	FCC KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
4	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
5	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
6	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters
7	KDB 616217 D04v01r02	SAR for laptop and tablets

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest SAR (1g SAR)

Equipment Class	Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
		Body (0mm)	Body (0mm)
DTS	2.4G WIFI	0.89	1.05
U-NII-2A	5.3G WIFI	1.03	
U-NII-2C	5.6G WIFI	1.01	
U-NII-3	5.8G WIFI	1.05	
DSS	Bluetooth	0.63	
Limit (W/kg)		1.60	
Verdict		Pass	

3.3.2 Highest Simultaneous Transmission SAR Values (1g SAR)

Equipment Class	Maximum Report SAR (W/kg)
	Body(0mm)
DTS	1.38
NII	1.38
DSS	1.38
Limit (W/Kg)	1.6
Verdict	PASS

Note: The simultaneous transmission SAR detail please refer to section 13.2.

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 1.05 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

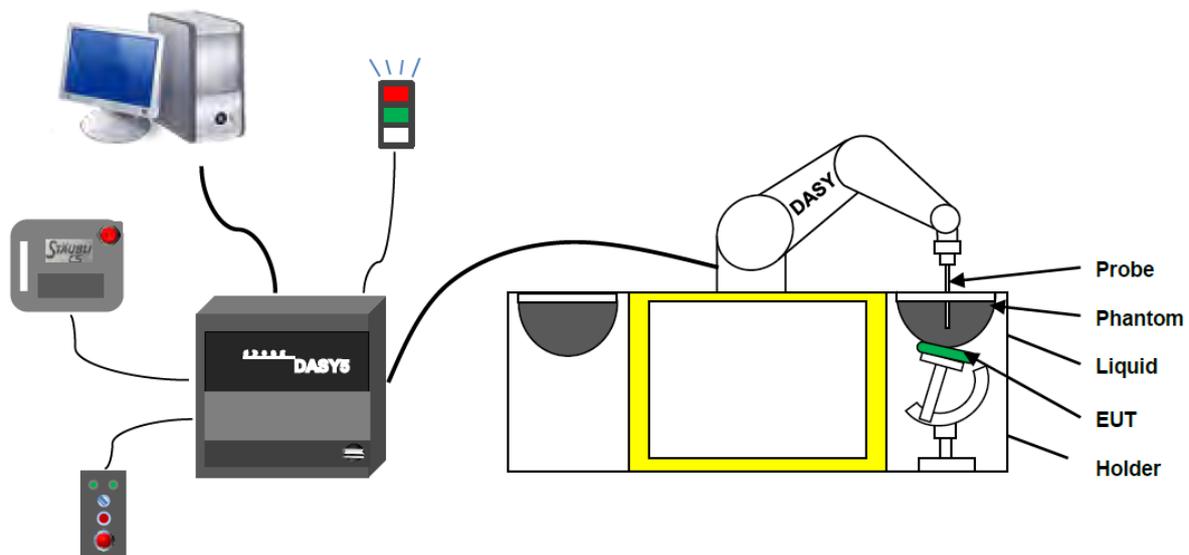
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

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

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



The 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 DASYS measurement server.
6. The DASYS measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASYS software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

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



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

4.2.3 E-Field Probe

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

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
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 CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 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

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

Photo of Phantom SN1857



Serial Number	Material	Length	Height
SAM	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

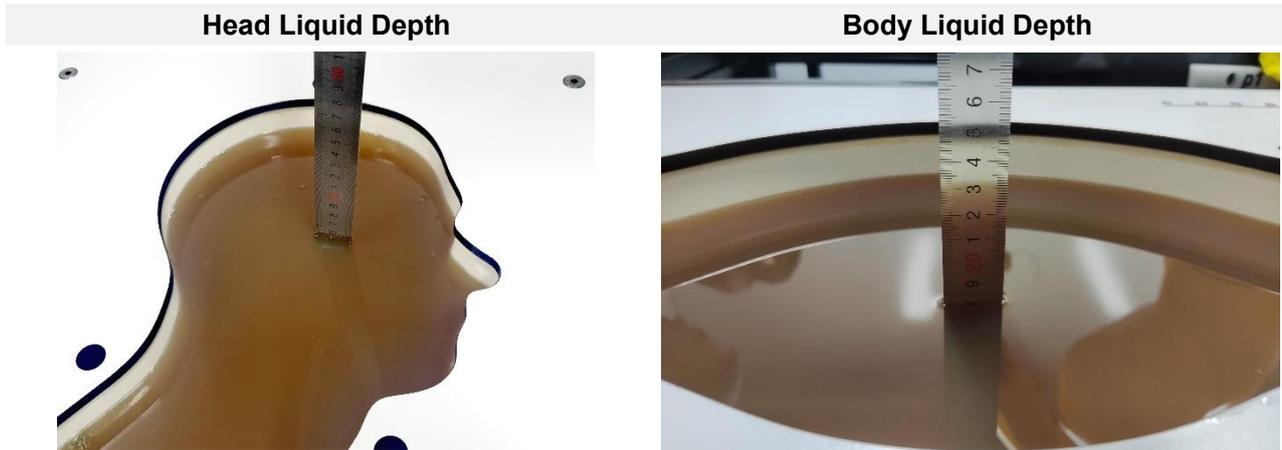
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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%.



The following table gives the recipes for tissue simulating liquid.

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

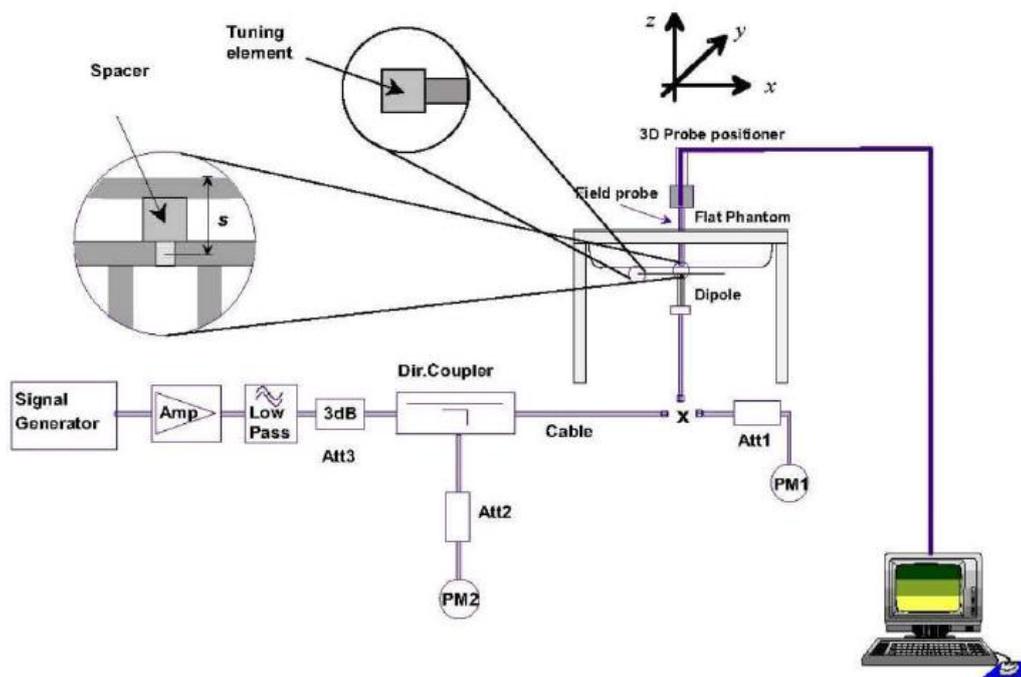
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

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

5.2 System Check Setup

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



6 TEST POSITION CONFIGURATIONS

6.1 Tablet Exposure Condition

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

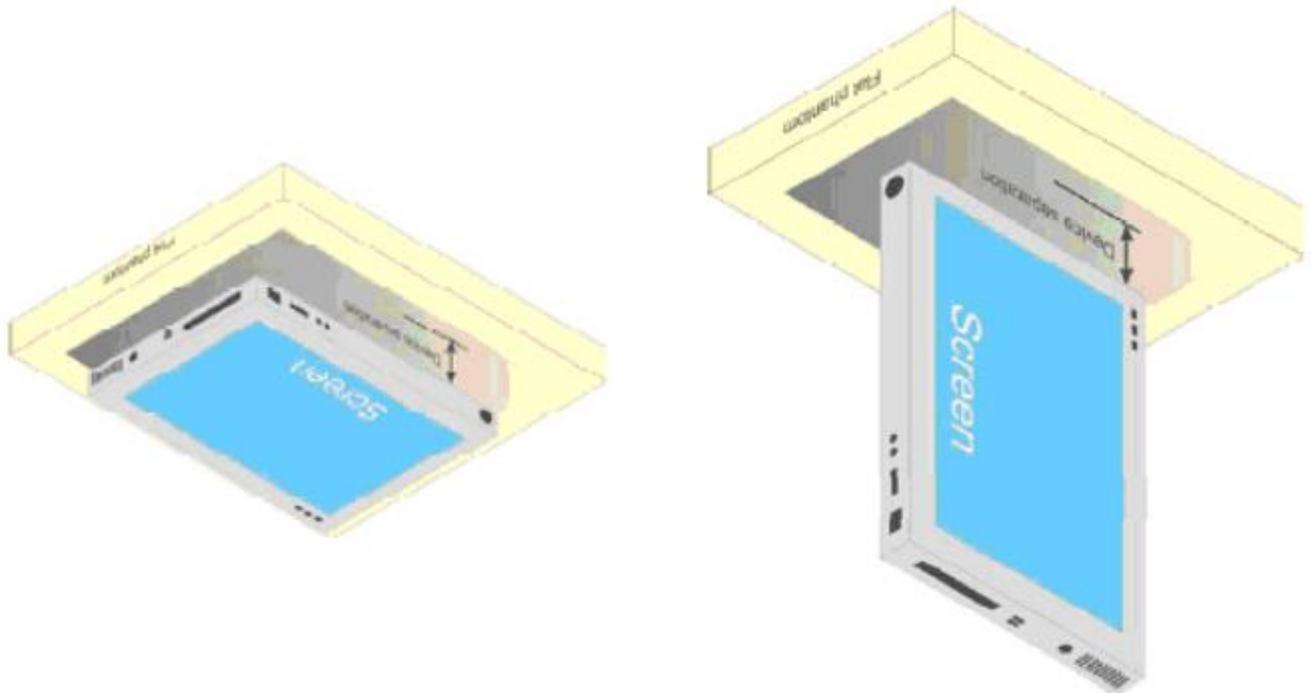
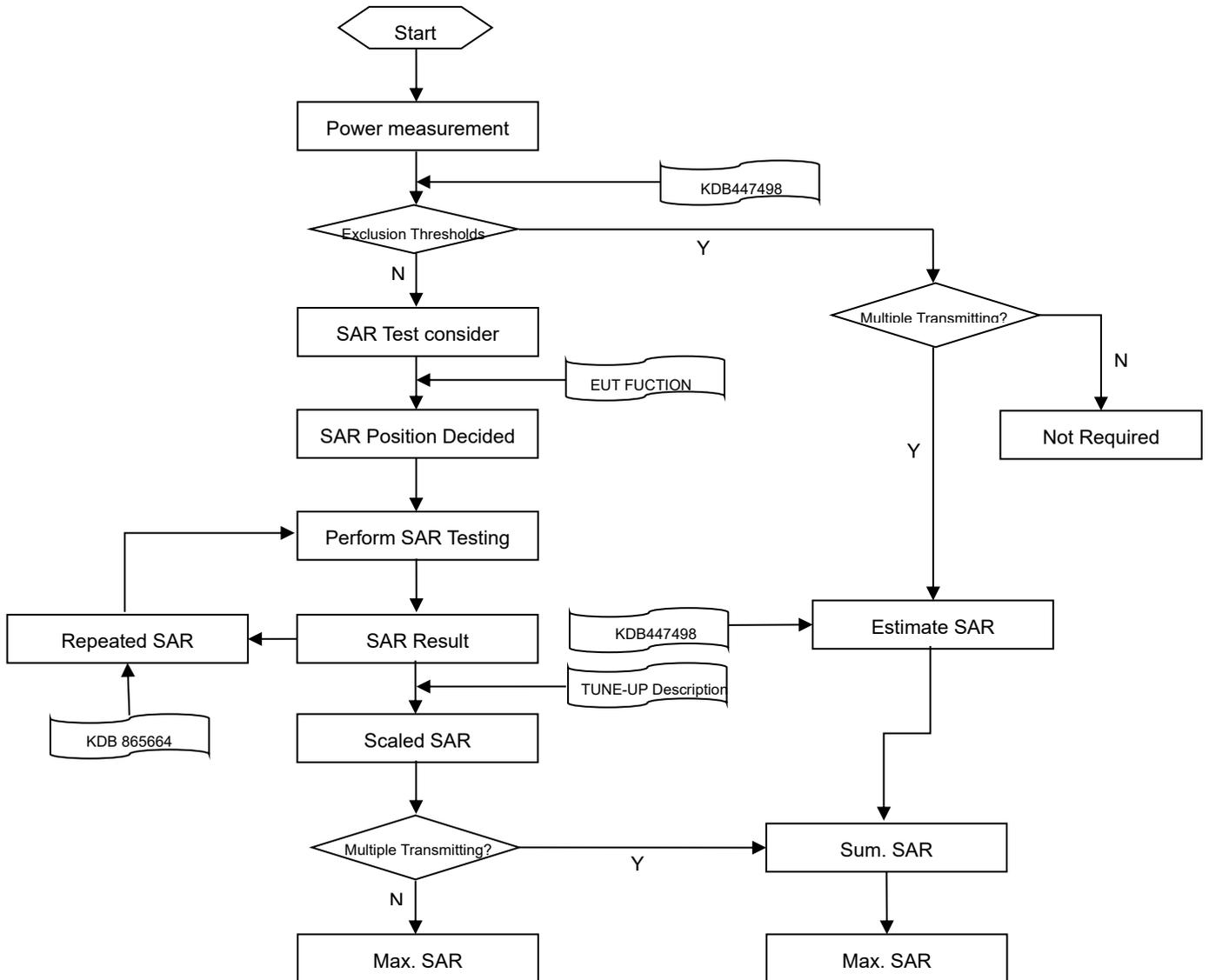


Fig Illustration for Lap-touching Position

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

		≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm
			4–5 GHz: ≤ 3 mm
			5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm
4–5 GHz: ≤ 2.5 mm			
	Δz Zoom (n>1): between subsequent points	≤ 1.5· Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm
			4–5 GHz: ≥ 25 mm
			5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

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

7.4 Area & Zoom Scan Procedure

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

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

8 CONDUCTED RF OUPUT POWER

8.1 Power Reduction List

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

WLAN Reduced power level table

Reduced level	Receiver state	Sensor state	Transmitting	Antenna	Position
			conditions		
Level 1	Off (Body scenario)	Sensor Off	Only 2.4G/5G WIFI/BT	ANT.3	Left Edge; Right Edge; Top Edge; Bottom Edge
				ANT.4	
Level 2	Off (Body scenario)	Sensor On	Only 2.4G/5G WIFI/BT	ANT.1	Back Side
				ANT.2	
Level 3	Off (Body scenario)	Sensor Off	WIFI5G+BT	ANT.3	Left Edge; Right Edge; Top Edge; Bottom Edge
				ANT.4	
Level 4	Off (Body scenario)	Sensor On	WIFI5G+BT	ANT.1	Back Side
				ANT.2	
Level 5	Off (Body scenario)	Sensor Off	WIFI2.4G+WIFI5G+BT	ANT.3	Left Edge; Right Edge; Top Edge; Bottom Edge
				ANT.4	
Level 6	Off (Body scenario)	Sensor On	WIFI2.4G+WIFI5G+BT	ANT.1	Back Side
				ANT.2	

WLAN Antenna3&4 Tune-up power

Mode	WLAN Antenna3&4			
	Full Power	Receiver off		
		Body		
		Only 2.4G/5G WIFI/BT	WIFI5G+BT	WIFI2.4G+WIFI5G+BT
Off	Level1	Level3	Level5	
2.4G WLAN 802.11b	18.50	18.50	/	18.50
2.4G WLAN 802.11g	18.00	18.00	/	18.00
2.4G WLAN 802.11n20	18.00	18.00	/	18.00
2.4G WLAN 802.11ax20	18.00	18.00	/	18.00
2.4G WLAN 802.11be20	18.00	18.00	/	18.00
5.2 WLAN 802.11a	17.00	17.00	15.00	15.00
5.2 WLAN 802.11n20	17.00	17.00	15.00	15.00
5.2 WLAN 802.11n40	17.00	17.00	15.00	15.00
5.2 WLAN 802.11ac20	17.00	17.00	15.00	15.00
5.2 WLAN 802.11ac40	17.00	17.00	15.00	15.00
5.2 WLAN 802.11ac80	16.50	16.50	15.00	15.00
5.2 WLAN 802.11ac160	14.50	14.50	15.00	15.00
5.2 WLAN 802.11ax20	17.00	17.00	15.00	15.00
5.2 WLAN 802.11ax40	17.00	17.00	15.00	15.00
5.2 WLAN 802.11ax80	17.00	17.00	15.00	15.00
5.2 WLAN 802.11ax160	15.00	15.00	15.00	15.00
5.2 WLAN 802.11be20	17.00	17.00	15.00	15.00
5.2 WLAN 802.11be40	17.00	17.00	15.00	15.00
5.2 WLAN 802.11be80	15.00	15.00	15.00	15.00
5.2 WLAN 802.11be160	17.00	17.00	15.00	15.00
5.3G WLAN 802.11a	17.00	17.00	15.00	15.00
5.3G WLAN 802.11n20	17.00	17.00	15.00	15.00
5.3G WLAN 802.11n40	17.00	17.00	15.00	15.00
5.3G WLAN 802.11ac20	17.00	17.00	15.00	15.00
5.3G WLAN 802.11ac40	17.00	17.00	15.00	15.00
5.3G WLAN 802.11ac80	16.00	16.00	15.00	15.00
5.3G WLAN 802.11ax20	17.00	17.00	15.00	15.00
5.3G WLAN 802.11ax40	17.00	17.00	15.00	15.00
5.3G WLAN 802.11ax80	15.50	15.50	15.00	15.00
5.3G WLAN 802.11be20	17.00	17.00	15.00	15.00

5.3G WLAN 802.11be40	17.00	17.00	15.00	15.00
5.3G WLAN 802.11be80	15.50	15.50	15.00	15.00
5.6G WLAN 802.11a	16.00	16.00	14.50	14.50
5.6G WLAN 802.11n20	16.00	16.00	14.50	14.50
5.6G WLAN 802.11n40	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ac20	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ac40	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ac80	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ac160	15.50	15.50	14.50	14.50
5.6G WLAN 802.11ax20	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ax40	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ax80	16.00	16.00	14.50	14.50
5.6G WLAN 802.11ax160	15.50	15.50	14.50	14.50
5.6G WLAN 802.11be20	16.00	16.00	14.50	14.50
5.6G WLAN 802.11be40	16.00	16.00	14.50	14.50
5.6G WLAN 802.11be80	16.00	16.00	14.50	14.50
5.6G WLAN 802.11be160	15.50	15.50	14.50	14.50
5.8G WLAN 802.11a	16.50	16.50	14.50	14.50
5.8G WLAN 802.11n20	16.50	16.50	14.50	14.50
5.8G WLAN 802.11n40	16.50	16.50	14.50	14.50
5.8G WLAN 802.11ac20	16.50	16.50	14.50	14.50
5.8G WLAN 802.11ac40	16.50	16.50	14.50	14.50
5.8G WLAN 802.11ac80	16.50	16.50	14.50	14.50
5.8G WLAN 802.11ax20	16.50	16.50	14.50	14.50
5.8G WLAN 802.11ax40	16.50	16.50	14.50	14.50
5.8G WLAN 802.11ax80	16.50	16.50	14.50	14.50
5.8G WLAN 802.11be20	16.50	16.50	14.50	14.50
5.8G WLAN 802.11be40	16.50	16.50	14.50	14.50
5.8G WLAN 802.11be80	16.50	16.50	14.50	14.50
Bluetooth	14.50	14.50	14.50	14.50

WLAN Antenna1&2 Tune-up power

Mode	WLAN Antenna 1&2						
	Full Power	Receiver off					
		Body					
		Only 2.4G/5G WIFI/BT	Only 2.4G/5G WIFI/BT	WIFI5G+BT	WIFI5G+BT	WIFI2.4G+ WIFI5G+BT	WIFI2.4G+ WIFI5G+BT
Off	Level1	Level2	Level3	Level4	Level5	Level6	
2.4G WLAN 802.11b	18.00	18.00	12.50	/	/	18.00	11.00
2.4G WLAN 802.11g	18.00	18.00	11.00	/	/	18.00	10.50
2.4G WLAN 802.11n20	17.50	17.50	11.00	/	/	17.50	10.00
2.4G WLAN 802.11ax20	18.00	18.00	11.50	/	/	18.00	10.50
2.4G WLAN 802.11be20	18.00	18.00	11.00	/	/	18.00	10.50
5.2 WLAN 802.11a	18.50	18.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11n20	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11n40	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ac20	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ac40	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ac80	16.50	16.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ac160	14.00	14.00	7.50	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ax20	18.00	18.00	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ax40	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ax80	16.50	16.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11ax160	14.00	14.00	7.50	16.50	6.00	16.50	6.00
5.2 WLAN 802.11be20	18.50	18.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11be40	18.00	18.00	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11be80	16.50	16.50	8.00	16.50	6.00	16.50	6.00
5.2 WLAN 802.11be160	14.50	14.50	7.50	16.50	6.00	16.50	6.00
5.3G WLAN 802.11a	18.50	18.50	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11n20	18.00	18.00	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11n40	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11ac20	18.00	18.00	8.00	16.50	6.00	16.50	6.00

5.3G WLAN 802.11ac40	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11ac80	16.50	16.50	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11ax20	18.00	18.00	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11ax40	17.50	17.50	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11ax80	16.00	16.00	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11be20	18.00	18.00	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11be40	18.00	18.00	8.00	16.50	6.00	16.50	6.00
5.3G WLAN 802.11be80	16.00	16.00	8.00	16.50	6.00	16.50	6.00
5.6G WLAN 802.11a	18.00	18.00	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11n20	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11n40	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ac20	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ac40	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ac80	17.00	17.00	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ac160	15.00	15.00	9.00	16.50	6.50	16.50	6.50
5.6G WLAN 802.11ax20	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ax40	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ax80	17.00	17.00	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11ax160	15.50	15.50	9.00	16.50	6.50	16.50	6.50
5.6G WLAN 802.11be20	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11be40	18.50	18.50	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11be80	17.00	17.00	9.00	17.00	6.50	17.00	6.50
5.6G WLAN 802.11be160	15.50	15.50	9.00	16.50	6.50	16.50	6.50

5.8G WLAN 802.11a	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11n20	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11n40	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11ac20	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11ac40	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11ac80	16.50	16.50	8.50	15.50	6.50	15.50	6.50
5.8G WLAN 802.11ax20	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11ax40	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11ax80	17.00	17.00	8.50	15.50	6.50	15.50	6.50
5.8G WLAN 802.11be20	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11be40	18.00	18.00	8.50	16.00	6.50	16.00	6.50
5.8G WLAN 802.11be80	17.00	17.00	8.50	15.50	6.50	15.50	6.50
Bluetooth	14.50	14.50	11.00	14.50	8.50	/	/

WLAN Antenna MIMO(2.4G Ant1&3 , 5Gant.2&4) Tune-up power

Mode	WLAN Antenna MIMO						
	Full Power	Receiver off					
		Body					
		Only 2.4G/5G WIFI/BT	Only 2.4G/5G WIFI/BT	WIFI5G+BT	WIFI5G+BT	WIFI2.4G+ WIFI5G+BT	WIFI2.4G+ WIFI5G+BT
Off	Level1	Level2	Level3	Level4	Level5	Level6	
2.4G WLAN 802.11g	21.00	21.00	16.00	/	/	21.00	14.00
2.4G WLAN 802.11n20	21.00	21.00	16.00	/	/	21.00	13.50
2.4G WLAN 802.11ax20	21.00	21.00	14.50	/	/	21.00	13.50
2.4G WLAN 802.11be20	21.00	21.00	15.00	/	/	21.00	13.50
5.2 WLAN 802.11a	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11n20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11n40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ac20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ac40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ac80	19.50	19.50	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ac160	17.50	17.50	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ax20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ax40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ax80	19.50	19.50	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11ax160	17.50	17.50	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11be20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11be40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11be80	19.50	19.50	11.00	18.50	8.50	18.50	8.50
5.2 WLAN 802.11be160	17.50	17.50	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11a	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11n20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11n40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11ac20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11ac40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11ac80	19.00	19.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11ax20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11ax40	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11ax80	19.00	19.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11be20	20.00	20.00	11.00	18.50	8.50	18.50	8.50
5.3G WLAN 802.11be40	20.00	20.00	11.00	18.50	8.50	18.50	8.50

5.3G WLAN 802.11be80	19.00	19.00	11.00	18.50	8.50	18.50	8.50
5.6G WLAN 802.11a	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11n20	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11n40	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ac20	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ac40	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ac80	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ac160	18.50	18.50	12.00	17.50	10.00	17.50	10.00
5.6G WLAN 802.11ax20	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ax40	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ax80	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11ax160	19.00	19.00	12.00	17.50	10.00	17.50	10.00
5.6G WLAN 802.11be20	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11be40	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11be80	19.50	19.50	12.00	18.00	10.00	18.00	10.00
5.6G WLAN 802.11be160	18.50	18.50	12.00	17.50	10.00	17.50	10.00
5.8G WLAN 802.11a	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11n20	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11n40	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11ac20	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11ac40	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11ac80	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11ax20	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11ax40	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11ax80	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11be20	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11be40	19.50	19.50	11.50	17.50	10.00	17.50	10.00
5.8G WLAN 802.11be80	19.50	19.50	11.50	17.50	10.00	17.50	10.00

8.2 WIFI

8.2.1 2.4G WIFI Antenna 3 Level 1&5

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	17.59	18.50	No
		6	2437	17.41	18.00	No
		11	2462	17.73	18.50	Yes
	802.11g	1	2412	17.31	18.00	No
		6	2437	17.32	18.00	No
		11	2462	17.40	18.00	No
	802.11n(HT20)	1	2412	17.19	18.00	No
		6	2437	17.22	18.00	No
		11	2462	17.28	18.00	No
	802.11ax(HE20)	1	2412	17.23	18.00	No
		6	2437	17.37	18.00	No
		11	2462	17.41	18.00	No
	802.11be(EHT20)	1	2412	17.59	18.50	No
		6	2437	17.41	18.00	No
		11	2462	17.73	18.50	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, so the 2.4GHz OFDM SAR test is not required.

8.2.2 2.4G WIFI Antenna 1 Level 1&5

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	16.89	17.50	No
		6	2437	16.78	17.50	No
		11	2462	17.36	18.00	Yes
	802.11g	1	2412	16.86	17.50	No
		6	2437	16.87	17.50	No
		11	2462	17.13	18.00	No
	802.11n(HT20)	1	2412	16.72	17.50	No
		6	2437	16.72	17.50	No
		11	2462	16.97	17.50	No
	802.11ax(HE20)	1	2412	16.84	17.50	No
		6	2437	16.90	17.50	No
		11	2462	17.03	18.00	No
	802.11be(EHT20)	1	2412	16.89	17.50	No
		6	2437	16.78	17.50	No
		11	2462	17.36	18.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. so the 2.4GHz OFDM SAR test is not required.

8.2.3 2.4G WIFI MIMO Antenna 1&3 Level 1&5

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4	802.11g	1	2412	20.10	21.00	No
		6	2437	20.11	21.00	No
		11	2462	20.28	21.00	Yes
	802.11n(HT20)	1	2412	19.97	20.50	No
		6	2437	19.99	20.50	No
		11	2462	20.14	21.00	No
	802.11ac(VHT20)	1	2412	20.06	21.00	No
		6	2437	20.12	21.00	No
		11	2462	20.22	21.00	No
	802.11ax(HE20)	1	2412	20.05	21.00	No
		6	2437	20.15	21.00	No
		11	2462	20.23	21.00	No
	802.11be(EHT20)	1	2412	20.10	21.00	No
		6	2437	20.11	21.00	No
		11	2462	20.28	21.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. so the 2.4GHz OFDM SAR test is not required.

8.2.4 2.4G WIFI Antenna 1 Level 2

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	10.96	11.50	Yes
		6	2437	10.89	11.50	Yes
		11	2462	11.47	12.50	Yes
	802.11g	1	2412	10.66	11.50	No
		6	2437	10.23	11.00	No
		11	2462	10.33	11.00	No
	802.11n(HT20)	1	2412	10.52	11.50	No
		6	2437	10.66	11.50	No
		11	2462	10.19	11.00	No
	802.11ac(VHT20)	1	2412	10.61	11.50	No
		6	2437	10.66	11.50	No
		11	2462	10.32	11.00	No
	802.11ax(HE20)	1	2412	10.66	11.50	No
		6	2437	10.18	11.00	No
		11	2462	10.63	11.50	No
	802.11be(EHT20)	1	2412	10.96	11.50	No
		6	2437	10.89	11.50	No
		11	2462	11.47	12.50	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. so the 2.4GHz OFDM SAR test is not required.

8.2.5 2.4G WIFI MIMO Antenna 1&3 Level 2

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
	802.11g	1	2412	14.32	15.00	No
		6	2437	14.12	15.00	No
		11	2462	14.42	15.50	Yes
	802.11n(HT20)	1	2412	14.11	15.00	No
		6	2437	14.23	15.00	No
		11	2462	14.32	15.00	No
	802.11ac(VHT20)	1	2412	13.86	14.50	No
		6	2437	13.23	14.00	No
		11	2462	13.66	14.50	No
	802.11ax(HE20)	1	2412	14.11	15.00	No
		6	2437	13.66	14.50	No
		11	2462	13.91	14.50	No
	802.11be(EHT20)	1	2412	14.32	15.00	No
		6	2437	14.12	15.00	No
		11	2462	14.42	15.50	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, so the 2.4GHz OFDM SAR test is not required.

8.2.6 2.4G WIFI Antenna 1 Level 6

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	9.12	10.00	Yes
		6	2437	9.52	10.50	Yes
		11	2462	10.28	11.00	Yes
	802.11g	1	2412	9.13	10.00	No
		6	2437	9.52	10.50	No
		11	2462	9.63	10.50	No
	802.11n(HT20)	1	2412	9.55	10.50	No
		6	2437	9.36	10.00	No
		11	2462	9.13	10.00	No
	802.11ac(VHT20)	1	2412	9.52	10.50	No
		6	2437	9.33	10.00	No
		11	2462	9.16	10.00	No
	802.11ax(HE20)	1	2412	9.41	10.00	No
		6	2437	9.52	10.50	No
		11	2462	9.11	10.00	No
802.11be(EHT20)	1	2412	9.12	10.00	No	
	6	2437	9.52	10.50	No	
	11	2462	10.28	11.00	No	

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. so the 2.4GHz OFDM SAR test is not required.

8.2.7 2.4G WIFI MIMO Antenna 1&3 Level 6

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
	802.11g	1	2412	12.96	13.50	No
		6	2437	12.55	13.50	No
		11	2462	13.35	14.00	Yes
	802.11n(HT20)	1	2412	12.11	13.00	No
		6	2437	12.23	13.00	No
		11	2462	12.66	13.50	No
	802.11ac(VHT20)	1	2412	12.33	13.00	No
		6	2437	12.63	13.50	No
		11	2462	12.31	13.00	No
	802.11ax(HE20)	1	2412	12.02	13.00	No
		6	2437	12.55	13.50	No
		11	2462	12.63	13.50	No
	802.11be(EHT20)	1	2412	12.96	13.50	No
		6	2437	12.55	13.50	No
		11	2462	13.35	14.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. so the 2.4GHz OFDM SAR test is not required.

8.2.8 5G WIFI Antenna 2 Level1

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	17.52	18.50	NO
		44	5220	17.81	18.50	NO
		48	5240	17.86	18.50	NO
	11n20	36	5180	16.88	17.50	NO
		44	5220	16.85	17.50	NO
		48	5240	16.89	17.50	NO
	11n40	38	5190	16.70	17.50	NO
		46	5230	16.42	17.00	NO
	11ac20	36	5180	16.87	17.50	NO
		44	5220	16.85	17.50	NO
		48	5240	16.82	17.50	NO
	11ac40	38	5190	16.65	17.50	NO
		46	5230	16.41	17.00	NO
	11ac80	42	5210	15.66	16.50	NO
	11ac160	50	5250	13.35	14.00	NO
	11ax20	36	5180	17.11	18.00	NO
		44	5220	17.02	18.00	NO
		48	5240	16.99	17.50	NO
	11ax40	38	5190	16.86	17.50	NO
		46	5230	16.60	17.50	NO
	11ax80	42	5210	15.80	16.50	NO
11ax160	50	5250	13.44	14.00	NO	
11be20	36	5180	17.96	18.50	NO	
	44	5220	17.50	18.50	NO	
	48	5240	17.97	18.50	NO	
11be40	38	5190	17.33	18.00	NO	
	46	5230	17.08	18.00	NO	
11be80	42	5210	15.80	16.50	NO	
11be160	50	5250	13.53	14.50	NO	
WIFI 5G Band2	11a	52	5260	17.73	18.50	Yes
		60	5300	17.59	18.50	NO
		64	5320	17.62	18.50	NO
	11n20	52	5260	17.00	18.00	NO
		60	5300	16.97	17.50	NO
		64	5320	16.97	17.50	NO
	11n40	54	5270	16.53	17.50	NO
		62	5310	16.74	17.50	NO
	11ac20	52	5260	17.03	18.00	NO

		60	5300	17.02	18.00	NO
		64	5320	17.01	18.00	NO
	11ac40	54	5270	16.56	17.50	NO
		62	5310	16.73	17.50	NO
	11ac80	58	5290	15.79	16.50	NO
	11ax20	52	5260	17.15	18.00	NO
		60	5300	17.04	18.00	NO
		64	5320	17.07	18.00	NO
	11ax40	54	5270	16.78	17.50	NO
		62	5310	16.92	17.50	NO
	11ax80	58	5290	15.38	16.00	NO
	11be20	52	5260	17.22	18.00	NO
		60	5300	17.33	18.00	NO
		64	5320	17.40	18.00	NO
	11be40	54	5270	17.23	18.00	NO
		62	5310	17.37	18.00	NO
11be80	58	5290	15.33	16.00	NO	
WIFI 5G Band3	11a	100	5500	17.03	18.00	NO
		116	5580	17.30	18.00	NO
		140	5700	17.30	18.00	NO
	11n20	100	5500	17.31	18.00	NO
		116	5580	17.65	18.50	NO
		140	5700	17.62	18.50	NO
	11n40	102	5510	17.13	18.00	NO
		118	5590	17.29	18.00	NO
		134	5670	17.62	18.50	Yes
	11ac20	100	5500	17.29	18.00	NO
		116	5580	17.70	18.50	NO
		140	5700	17.64	18.50	NO
	11ac40	102	5510	17.37	18.00	NO
		118	5590	17.31	18.00	NO
		134	5670	17.54	18.50	NO
	11ac80	106	5530	15.94	16.50	NO
		122	5610	16.20	17.00	NO
	11ac160	114	5570	14.47	15.00	NO
	11ax20	100	5500	17.47	18.00	NO
		116	5580	17.86	18.50	NO
		140	5700	17.73	18.50	NO
	11ax40	102	5510	17.58	18.50	NO
		118	5590	17.57	18.50	NO
		134	5670	17.79	18.50	NO
	11ax80	106	5530	16.17	17.00	NO
		122	5610	16.47	17.00	NO

	11ax160	114	5570	14.87	15.50	NO
	11be20	100	5500	17.45	18.00	NO
		116	5580	17.84	18.50	NO
		140	5700	17.80	18.50	NO
	11be40	102	5510	17.59	18.50	NO
		118	5590	17.55	18.50	NO
		134	5670	17.66	18.50	NO
	11be80	106	5530	16.14	17.00	NO
		122	5610	16.50	17.00	NO
	11be160	114	5570	14.69	15.50	NO
WIFI 5.8G	11a	149	5745	17.36	18.00	NO
		157	5785	17.04	18.00	NO
		165	5825	17.19	18.00	NO
	11n20	149	5745	17.12	18.00	NO
		157	5785	17.21	18.00	NO
		165	5825	17.38	18.00	NO
	11n40	151	5755	17.06	18.00	NO
		159	5795	17.20	18.00	Yes
	11ac20	149	5745	17.09	18.00	NO
		157	5785	17.23	18.00	NO
		165	5825	17.41	18.00	NO
	11ac40	151	5755	17.06	18.00	NO
		159	5795	17.21	18.00	NO
	11ac80	155	5775	15.76	16.50	NO
	11ax20	149	5745	17.18	18.00	NO
		157	5785	17.29	18.00	NO
		165	5825	17.02	18.00	NO
	11ax40	151	5755	17.26	18.00	NO
		159	5795	17.43	18.00	NO
	11ax80	155	5775	16.04	17.00	NO
	11be20	149	5745	17.25	18.00	NO
		157	5785	17.35	18.00	NO
		165	5825	17.03	18.00	NO
	11be40	151	5755	17.25	18.00	NO
		159	5795	17.44	18.00	NO
	11be80	155	5775	16.04	17.00	NO

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.9 5G WIFI Antenna 4 Level1

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	16.26	17.00	NO
		44	5220	16.35	17.00	NO
		48	5240	16.23	17.00	NO
	11n20	36	5180	16.12	17.00	NO
		44	5220	16.41	17.00	NO
		48	5240	16.29	17.00	NO
	11n40	38	5190	16.38	17.00	NO
		46	5230	16.37	17.00	NO
	11ac20	36	5180	16.09	17.00	NO
		44	5220	16.46	17.00	NO
		48	5240	16.37	17.00	NO
	11ac40	38	5190	16.40	17.00	NO
		46	5230	16.44	17.00	NO
	11ac80	42	5210	15.90	16.50	NO
	11ac160	50	5250	13.93	14.50	NO
	11ax20	36	5180	16.22	17.00	NO
		44	5220	16.08	17.00	NO
		48	5240	16.45	17.00	NO
	11ax40	38	5190	16.07	17.00	NO
		46	5230	16.18	17.00	NO
	11ax80	42	5210	16.08	17.00	NO
	11ax160	50	5250	14.08	15.00	NO
	11be20	36	5180	16.28	17.00	NO
		44	5220	16.14	17.00	NO
48		5240	16.50	17.00	NO	
11be40	38	5190	16.06	17.00	NO	
	46	5230	16.15	17.00	NO	
11be80	42	5210	16.08	17.00	NO	
11be160	50	5250	14.14	15.00	NO	
WIFI 5G Band2	11a	52	5260	16.13	17.00	NO
		60	5300	16.16	17.00	NO
		64	5320	16.19	17.00	NO
	11n20	52	5260	16.06	17.00	NO
		60	5300	16.06	17.00	NO
		64	5320	16.07	17.00	NO
	11n40	54	5270	16.37	17.00	Yes

		62	5310	16.14	17.00	NO
	11ac20	52	5260	16.06	17.00	NO
		60	5300	16.01	17.00	NO
		64	5320	16.06	17.00	NO
		54	5270	16.32	17.00	NO
	11ac40	62	5310	16.06	17.00	NO
		58	5290	15.10	16.00	NO
	11ax20	52	5260	16.09	17.00	NO
		60	5300	16.06	17.00	NO
		64	5320	16.13	17.00	NO
	11ax40	54	5270	16.05	17.00	NO
		62	5310	16.35	17.00	NO
	11ax80	58	5290	14.84	15.50	NO
	11be20	52	5260	16.41	17.00	NO
		60	5300	16.18	17.00	NO
		64	5320	16.46	17.00	NO
	11be40	54	5270	16.11	17.00	NO
		62	5310	16.33	17.00	NO
	11be80	58	5290	14.79	15.50	NO
WIFI 5G Band3	11a	100	5500	15.45	16.00	NO
		116	5580	15.26	16.00	NO
		140	5700	15.32	16.00	NO
	11n20	100	5500	15.20	16.00	NO
		116	5580	15.01	16.00	NO
		140	5700	15.16	16.00	NO
	11n40	102	5510	15.12	16.00	NO
		118	5590	15.33	16.00	NO
		134	5670	15.09	16.00	NO
	11ac20	100	5500	15.25	16.00	NO
		116	5580	15.07	16.00	NO
		140	5700	15.23	16.00	NO
	11ac40	102	5510	15.15	16.00	NO
		118	5590	15.32	16.00	NO
		134	5670	15.07	16.00	NO
	11ac80	106	5530	15.20	16.00	NO
		122	5610	15.46	16.00	Yes
	11ac160	114	5570	14.67	15.50	NO
	11ax20	100	5500	15.45	16.00	NO
		116	5580	15.28	16.00	NO
		140	5700	15.33	16.00	NO
11ax40	102	5510	15.12	16.00	NO	
	118	5590	15.40	16.00	NO	
	134	5670	15.38	16.00	NO	

	11ax80	106	5530	15.21	16.00	NO	
		122	5610	15.44	16.00	NO	
	11ax160	114	5570	14.59	15.50	NO	
	11be20	100	5500	15.41	16.00	NO	
		116	5580	15.25	16.00	NO	
		140	5700	15.35	16.00	NO	
	11be40	102	5510	15.16	16.00	NO	
		118	5590	15.39	16.00	NO	
		134	5670	15.13	16.00	NO	
	11be80	106	5530	15.27	16.00	NO	
		122	5610	15.46	16.00	NO	
	11be160	114	5570	14.85	15.50	NO	
	WIFI 5.8G	11a	149	5745	15.88	16.50	NO
			157	5785	15.97	16.50	NO
165			5825	15.77	16.50	NO	
11n20		149	5745	15.87	16.50	NO	
		157	5785	15.83	16.50	NO	
		165	5825	15.77	16.50	NO	
11n40		151	5755	15.79	16.50	NO	
		159	5795	15.76	16.50	NO	
11ac20		149	5745	15.83	16.50	NO	
		157	5785	15.81	16.50	NO	
		165	5825	15.78	16.50	NO	
11ac40		151	5755	15.77	16.50	NO	
		159	5795	15.77	16.50	NO	
11ac80		155	5775	15.95	16.50	Yes	
11ax20		149	5745	15.52	16.50	NO	
		157	5785	15.51	16.50	NO	
		165	5825	15.91	16.50	NO	
11ax40		151	5755	15.52	16.50	NO	
		159	5795	15.59	16.50	NO	
11ax80		155	5775	15.79	16.50	NO	
11be20		149	5745	15.96	16.50	NO	
		157	5785	15.97	16.50	NO	
		165	5825	15.89	16.50	NO	
11be40		151	5755	15.99	16.50	NO	
		159	5795	15.54	16.50	NO	
11be80		155	5775	15.72	16.50	NO	

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.10 5G WIFI MIMO Antenna 2&4 Level1

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	17.95	20.00	NO
		44	5220	18.15	20.00	NO
		48	5240	18.13	20.00	NO
	11n20	36	5180	18.53	20.00	NO
		44	5220	18.65	20.00	NO
		48	5240	18.61	20.00	NO
	11n40	38	5190	19.05	20.00	NO
		46	5230	18.91	20.00	NO
	11ac20	36	5180	19.01	20.00	NO
		44	5220	18.67	20.00	NO
		48	5240	18.61	20.00	NO
	11ac40	38	5190	19.04	20.00	NO
		46	5230	18.94	20.00	NO
	11ac80	42	5210	18.79	19.50	NO
	11ac160	50	5250	16.66	17.50	NO
	11ax20	36	5180	18.70	20.00	NO
		44	5220	18.59	20.00	NO
		48	5240	18.74	20.00	NO
	11ax40	38	5190	18.99	20.00	NO
		46	5230	18.91	20.00	NO
	11ax80	42	5210	18.95	19.50	NO
11ax160	50	5250	16.78	17.50	NO	
11be20	36	5180	18.21	20.00	NO	
	44	5220	17.88	20.00	NO	
	48	5240	18.31	20.00	NO	
11be40	38	5190	18.75	20.00	NO	
	46	5230	18.65	20.00	NO	
11be80	42	5210	18.95	19.50	NO	
11be160	50	5250	16.86	17.50	NO	
WIFI 5G Band2	11a	52	5260	18.01	20.00	NO
		60	5300	18.44	20.00	NO
		64	5320	18.47	20.00	NO
	11n20	52	5260	18.57	20.00	NO
		60	5300	19.05	20.00	NO
		64	5320	19.05	20.00	NO
	11n40	54	5270	19.46	20.00	Yes
		62	5310	19.35	20.00	NO
	11ac20	52	5260	18.58	20.00	NO

		60	5300	19.05	20.00	NO
		64	5320	19.07	20.00	NO
	11ac40	54	5270	19.45	20.00	NO
		62	5310	19.42	20.00	NO
	11ac80	58	5290	18.47	19.00	NO
	11ax20	52	5260	18.66	20.00	NO
		60	5300	19.09	20.00	NO
		64	5320	19.14	20.00	NO
	11ax40	54	5270	18.94	20.00	NO
		62	5310	19.15	20.00	NO
	11ax80	58	5290	18.13	19.00	NO
	11be20	52	5260	18.34	20.00	NO
		60	5300	18.30	20.00	NO
		64	5320	18.97	20.00	NO
	11be40	54	5270	18.72	20.00	NO
		62	5310	18.89	20.00	NO
11be80	58	5290	18.08	19.00	NO	
WIFI 5G Band3	11a	100	5500	18.82	19.50	NO
		116	5580	18.91	19.50	NO
		140	5700	18.93	19.50	NO
	11n20	100	5500	18.89	19.50	NO
		116	5580	18.54	19.50	NO
		140	5700	18.57	19.50	NO
	11n40	102	5510	18.75	19.50	NO
		118	5590	18.93	19.50	NO
		134	5670	18.55	19.50	NO
	11ac20	100	5500	18.90	19.50	NO
		116	5580	18.59	19.50	NO
		140	5700	18.61	19.50	NO
	11ac40	102	5510	18.91	19.50	NO
		118	5590	18.94	19.50	NO
		134	5670	18.49	19.50	NO
	11ac80	106	5530	18.43	19.00	NO
		122	5610	18.56	19.50	Yes
	11ac160	114	5570	17.58	18.50	NO
	11ax20	100	5500	18.58	19.50	NO
		116	5580	18.77	19.50	NO
		140	5700	18.70	19.50	NO
	11ax40	102	5510	18.53	19.50	NO
		118	5590	18.63	19.50	NO
		134	5670	18.76	19.50	NO
	11ax80	106	5530	18.73	19.50	NO
		122	5610	19.00	19.50	NO

	11ax160	114	5570	18.15	19.00	NO	
	11be20	100	5500	18.56	19.50	NO	
		116	5580	18.75	19.50	NO	
		140	5700	18.76	19.50	NO	
	11be40	102	5510	18.55	19.50	NO	
		118	5590	18.61	19.50	NO	
		134	5670	18.59	19.50	NO	
	11be80	106	5530	18.74	19.50	NO	
		122	5610	18.52	19.50	NO	
	11be160	114	5570	17.78	18.50	NO	
WIFI 5.8G	11a	149	5745	18.69	19.50	NO	
		157	5785	18.55	19.50	NO	
		165	5825	18.55	19.50	NO	
	11n20	149	5745	18.55	19.50	NO	
		157	5785	18.58	19.50	NO	
		165	5825	18.66	19.50	NO	
	11n40	151	5755	18.98	19.50	NO	
		159	5795	18.55	19.50	NO	
	11ac20	149	5745	18.52	19.50	NO	
		157	5785	18.59	19.50	NO	
		165	5825	18.68	19.50	NO	
	11ac40	151	5755	18.47	19.50	NO	
		159	5795	18.56	19.50	NO	
	11ac80	155	5775	18.87	19.50	Yes	
	11ax20	149	5745	18.94	19.50	NO	
		157	5785	19.00	19.50	NO	
		165	5825	18.51	19.50	NO	
	11ax40	151	5755	18.99	19.50	NO	
		159	5795	18.62	19.50	NO	
	11ax80	155	5775	18.93	19.50	NO	
	11be20	149	5745	18.66	19.50	NO	
		157	5785	18.72	19.50	NO	
		165	5825	18.51	19.50	NO	
	11be40	151	5755	18.68	19.50	NO	
		159	5795	18.60	19.50	NO	
	11be80	155	5775	18.89	19.50	NO	
	<p>Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR</p>						

8.2.11 5G WIFI Antenna 3 Level1&3&5

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	10.43	10.50	NO
		44	5220	10.47	10.50	NO
		48	5240	10.45	10.50	NO
	11n20	36	5180	10.29	10.50	NO
		44	5220	10.33	10.50	NO
		48	5240	10.36	10.50	NO
	11n40	38	5190	9.99	10.50	NO
		46	5230	10.24	10.50	NO
	11ac20	36	5180	10.26	10.50	NO
		44	5220	10.34	10.50	NO
		48	5240	10.33	10.50	NO
	11ac40	38	5190	9.95	10.50	NO
		46	5230	10.19	10.50	NO
	11ac80	42	5210	9.30	10.50	NO
	11ac160	50	5250	8.61	9.50	NO
	11ax20	36	5180	10.31	10.50	NO
		44	5220	10.36	10.50	NO
		48	5240	10.35	10.50	NO
	11ax40	38	5190	10.05	10.50	NO
		46	5230	10.32	10.50	NO
	11ax80	42	5210	9.48	10.00	NO
11ax160	50	5250	8.76	9.50	NO	
11be20	36	5180	10.35	10.50	NO	
	44	5220	10.38	10.50	NO	
	48	5240	10.38	10.50	NO	
11be40	38	5190	10.06	10.50	NO	
	46	5230	10.28	10.50	NO	
11be80	42	5210	9.44	10.00	NO	
11be160	50	5250	8.78	9.50	NO	
WIFI 5G Band2	11a	52	5260	9.22	10.00	NO
		60	5300	9.39	10.00	NO
		64	5320	9.37	10.00	NO
	11n20	52	5260	9.45	10.00	NO
		60	5300	9.30	10.00	NO
		64	5320	9.30	10.00	NO
	11n40	54	5270	9.52	10.50	Yes
		62	5310	8.94	9.50	NO
	11ac20	52	5260	9.49	10.00	NO

		60	5300	9.31	10.00	NO
		64	5320	9.28	10.00	NO
	11ac40	54	5270	9.52	10.50	NO
		62	5310	8.90	9.50	NO
	11ac80	58	5290	8.44	9.00	NO
	11ax20	52	5260	9.61	10.50	NO
		60	5300	9.45	10.00	NO
		64	5320	9.45	10.00	NO
	11ax40	54	5270	9.73	10.50	NO
		62	5310	9.16	10.00	NO
	11ax80	58	5290	8.70	9.50	NO
	11be20	52	5260	9.66	10.50	NO
		60	5300	9.51	10.50	NO
		64	5320	9.48	10.00	NO
	11be40	54	5270	9.72	10.50	NO
		62	5310	9.14	10.00	NO
11be80	58	5290	8.68	9.50	NO	
WIFI 5.8G	11a	149	5745	10.01	11.00	NO
		157	5785	10.09	11.00	Yes
		165	5825	9.90	10.50	NO
	11n20	149	5745	9.88	10.50	NO
		157	5785	9.98	10.50	NO
		165	5825	9.80	10.50	NO
	11n40	151	5755	9.20	10.00	NO
		159	5795	9.44	10.00	NO
	11ac20	149	5745	9.87	10.50	NO
		157	5785	9.96	10.50	NO
		165	5825	9.78	10.50	NO
	11ac40	151	5755	9.22	10.00	NO
		159	5795	9.45	10.00	NO
	11ac80	155	5775	8.93	9.50	NO
	11ax20	149	5745	9.12	10.00	NO
		157	5785	9.55	10.50	NO
		165	5825	9.89	10.50	NO
	11ax40	151	5755	9.43	10.00	NO
		159	5795	9.71	10.50	NO
	11ax80	155	5775	9.22	10.00	NO
	11be20	149	5745	9.81	10.50	NO
		157	5785	9.77	10.50	NO
		165	5825	9.91	10.50	NO
	11be40	151	5755	9.41	10.00	NO
159		5795	9.69	10.50	NO	
11be80	155	5775	9.18	10.00	NO	

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.12 5G WIFI Antenna 2 Level2

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	7.25	8.00	NO
		44	5220	7.55	8.00	NO
		48	5240	7.29	8.00	NO
	11n20	36	5180	7.23	8.00	NO
		44	5220	7.47	8.00	NO
		48	5240	7.37	8.00	NO
	11n40	38	5190	7.29	8.00	NO
		46	5230	7.28	8.00	NO
	11ac20	36	5180	7.59	8.00	NO
		44	5220	7.63	8.00	NO
		48	5240	7.44	8.00	NO
	11ac40	38	5190	7.68	8.00	NO
		46	5230	7.26	8.00	NO
	11ac80	42	5210	7.48	8.00	NO
	11ac160	50	5250	6.93	7.50	NO
	11ax20	36	5180	7.57	8.00	NO
		44	5220	7.44	8.00	NO
		48	5240	7.26	8.00	NO
	11ax40	38	5190	7.31	8.00	NO
		46	5230	7.47	8.00	NO
	11ax80	42	5210	7.48	8.00	NO
	11ax160	50	5250	6.83	7.50	NO
	11be20	36	5180	7.39	8.00	NO
		44	5220	7.48	8.00	NO
48		5240	7.48	8.00	NO	
11be40	38	5190	7.38	8.00	NO	
	46	5230	7.47	8.00	NO	
11be80	42	5210	7.34	8.00	NO	
11be160	50	5250	6.75	7.50	NO	
WIFI 5G Band2	11a	52	5260	7.49	8.00	NO
		60	5300	7.40	8.00	NO
		64	5320	7.54	8.00	NO
	11n20	52	5260	7.28	8.00	NO
		60	5300	7.40	8.00	NO
		64	5320	7.59	8.00	NO
	11n40	54	5270	7.31	8.00	NO
		62	5310	7.25	8.00	NO
	11ac20	52	5260	7.42	8.00	NO

		60	5300	7.32	8.00	NO
		64	5320	7.41	8.00	NO
	11ac40	54	5270	7.55	8.00	NO
		62	5310	7.21	8.00	NO
	11ac80	58	5290	7.42	8.00	Yes
	11ax20	52	5260	7.25	8.00	NO
		60	5300	7.64	8.00	NO
		64	5320	7.20	8.00	NO
	11ax40	54	5270	7.67	8.00	NO
		62	5310	7.65	8.00	NO
	11ax80	58	5290	7.62	8.00	NO
	11be20	52	5260	7.58	8.00	NO
		60	5300	7.53	8.00	NO
		64	5320	7.21	8.00	NO
	11be40	54	5270	7.52	8.00	NO
		62	5310	7.62	8.00	NO
11be80	58	5290	7.66	8.00	NO	
WIFI 5G Band3	11a	100	5500	7.94	9.00	NO
		116	5580	8.30	9.00	NO
		140	5700	8.27	9.00	NO
	11n20	100	5500	8.20	9.00	NO
		116	5580	8.24	9.00	NO
		140	5700	8.28	9.00	NO
	11n40	102	5510	8.10	9.00	NO
		118	5590	7.96	9.00	NO
		134	5670	8.25	9.00	NO
	11ac20	100	5500	7.85	9.00	NO
		116	5580	8.03	9.00	NO
		140	5700	8.13	9.00	NO
	11ac40	102	5510	7.83	9.00	NO
		118	5590	8.29	9.00	NO
		134	5670	7.96	9.00	NO
	11ac80	106	5530	7.99	9.00	NO
		122	5610	8.28	9.00	NO
	11ac160	114	5570	8.09	9.00	Yes
	11ax20	100	5500	7.97	9.00	NO
		116	5580	7.82	9.00	NO
		140	5700	8.03	9.00	NO
	11ax40	102	5510	8.08	9.00	NO
		118	5590	8.05	9.00	NO
		134	5670	7.97	9.00	NO
11ax80	106	5530	8.23	9.00	NO	
	122	5610	7.89	9.00	NO	

	11ax160	114	5570	7.83	9.00	NO	
	11be20	100	5500	7.93	9.00	NO	
		116	5580	8.13	9.00	NO	
		140	5700	7.86	9.00	NO	
	11be40	102	5510	7.84	9.00	NO	
		118	5590	8.07	9.00	NO	
		134	5670	7.94	9.00	NO	
	11be80	106	5530	8.20	9.00	NO	
		122	5610	7.96	9.00	NO	
	11be160	114	5570	7.89	9.00	NO	
WIFI 5.8G	11a	149	5745	7.32	8.50	NO	
		157	5785	7.53	8.50	NO	
		165	5825	7.62	8.50	NO	
	11n20	149	5745	7.36	8.50	NO	
		157	5785	7.30	8.50	NO	
		165	5825	7.70	8.50	NO	
	11n40	151	5755	7.47	8.50	NO	
		159	5795	7.73	8.50	NO	
	11ac20	149	5745	7.76	8.50	NO	
		157	5785	7.80	8.50	NO	
		165	5825	7.62	8.50	NO	
	11ac40	151	5755	7.70	8.50	NO	
		159	5795	7.59	8.50	NO	
	11ac80	155	5775	7.75	8.50	Yes	
	11ax20	149	5745	7.31	8.50	NO	
		157	5785	7.35	8.50	NO	
		165	5825	7.37	8.50	NO	
	11ax40	151	5755	7.64	8.50	NO	
		159	5795	7.32	8.50	NO	
	11ax80	155	5775	7.41	8.50	NO	
	11be20	149	5745	7.30	8.50	NO	
		157	5785	7.76	8.50	NO	
		165	5825	7.58	8.50	NO	
	11be40	151	5755	7.55	8.50	NO	
		159	5795	7.42	8.50	NO	
	11be80	155	5775	7.47	8.50	NO	
	<p>Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR</p>						

8.2.13 5G WIFI MIMO Antenna 2&4 Level2

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	10.01	11.00	NO
		44	5220	9.98	11.00	NO
		48	5240	10.12	11.00	NO
	11n20	36	5180	9.90	11.00	NO
		44	5220	10.00	11.00	NO
		48	5240	10.12	11.00	NO
	11n40	38	5190	10.14	11.00	NO
		46	5230	10.21	11.00	NO
	11ac20	36	5180	10.36	11.00	NO
		44	5220	9.91	11.00	NO
		48	5240	10.17	11.00	NO
	11ac40	38	5190	10.00	11.00	NO
		46	5230	10.34	11.00	NO
	11ac80	42	5210	9.99	11.00	NO
	11ac160	50	5250	9.96	11.00	NO
	11ax20	36	5180	10.16	11.00	NO
		44	5220	10.03	11.00	NO
		48	5240	10.33	11.00	NO
	11ax40	38	5190	10.09	11.00	NO
		46	5230	9.93	11.00	NO
	11ax80	42	5210	10.20	11.00	NO
11ax160	50	5250	10.27	11.00	NO	
11be20	36	5180	10.03	11.00	NO	
	44	5220	10.05	11.00	NO	
	48	5240	10.28	11.00	NO	
11be40	38	5190	10.08	11.00	NO	
	46	5230	9.93	11.00	NO	
11be80	42	5210	9.91	11.00	NO	
11be160	50	5250	9.92	11.00	NO	
WIFI 5G Band2	11a	52	5260	10.32	11.00	NO
		60	5300	10.11	11.00	NO
		64	5320	10.09	11.00	NO
	11n20	52	5260	10.32	11.00	NO
		60	5300	10.07	11.00	NO
		64	5320	10.01	11.00	NO
	11n40	54	5270	10.29	11.00	NO
		62	5310	10.15	11.00	NO
	11ac20	52	5260	10.27	11.00	NO

		60	5300	10.31	11.00	NO
		64	5320	10.05	11.00	NO
	11ac40	54	5270	9.97	11.00	NO
		62	5310	10.39	11.00	NO
	11ac80	58	5290	10.05	11.00	Yes
	11ax20	52	5260	9.97	11.00	NO
		60	5300	10.26	11.00	NO
		64	5320	10.38	11.00	NO
	11ax40	54	5270	9.94	11.00	NO
		62	5310	10.14	11.00	NO
	11ax80	58	5290	9.97	11.00	NO
	11be20	52	5260	10.25	11.00	NO
		60	5300	10.03	11.00	NO
		64	5320	10.13	11.00	NO
	11be40	54	5270	10.20	11.00	NO
		62	5310	10.32	11.00	NO
11be80	58	5290	9.93	11.00	NO	
WIFI 5G Band3	11a	100	5500	11.21	12.00	NO
		116	5580	11.02	12.00	NO
		140	5700	11.16	12.00	NO
	11n20	100	5500	11.29	12.00	NO
		116	5580	11.12	12.00	NO
		140	5700	11.26	12.00	NO
	11n40	102	5510	11.13	12.00	NO
		118	5590	10.88	12.00	NO
		134	5670	11.22	12.00	NO
	11ac20	100	5500	11.30	12.00	NO
		116	5580	11.23	12.00	NO
		140	5700	10.81	12.00	NO
	11ac40	102	5510	10.88	12.00	NO
		118	5590	10.80	12.00	NO
		134	5670	10.98	12.00	NO
	11ac80	106	5530	11.00	12.00	NO
		122	5610	11.15	12.00	NO
	11ac160	114	5570	11.05	12.00	Yes
	11ax20	100	5500	11.23	12.00	NO
		116	5580	11.30	12.00	NO
		140	5700	11.09	12.00	NO
	11ax40	102	5510	10.84	12.00	NO
		118	5590	11.23	12.00	NO
		134	5670	10.86	12.00	NO
11ax80	106	5530	11.11	12.00	NO	
	122	5610	10.89	12.00	NO	

	11ax160	114	5570	10.98	12.00	NO
	11be20	100	5500	11.00	12.00	NO
		116	5580	11.13	12.00	NO
		140	5700	11.11	12.00	NO
	11be40	102	5510	10.90	12.00	NO
		118	5590	11.29	12.00	NO
		134	5670	11.20	12.00	NO
11be80	106	5530	11.22	12.00	NO	
	122	5610	11.15	12.00	NO	
11be160	114	5570	11.01	12.00	NO	
WIFI 5.8G	11a	149	5745	10.58	11.50	NO
		157	5785	10.66	11.50	NO
		165	5825	10.38	11.50	NO
	11n20	149	5745	10.78	11.50	NO
		157	5785	10.73	11.50	NO
		165	5825	10.59	11.50	NO
	11n40	151	5755	10.59	11.50	NO
		159	5795	10.62	11.50	NO
	11ac20	149	5745	10.57	11.50	NO
		157	5785	10.45	11.50	NO
		165	5825	10.53	11.50	NO
	11ac40	151	5755	10.73	11.50	NO
		159	5795	10.69	11.50	NO
	11ac80	155	5775	10.76	11.50	Yes
	11ax20	149	5745	10.69	11.50	NO
		157	5785	10.39	11.50	NO
		165	5825	10.37	11.50	NO
	11ax40	151	5755	10.35	11.50	NO
		159	5795	10.56	11.50	NO
	11ax80	155	5775	10.42	11.50	NO
	11be20	149	5745	10.58	11.50	NO
		157	5785	10.76	11.50	NO
		165	5825	10.78	11.50	NO
	11be40	151	5755	10.33	11.50	NO
		159	5795	10.76	11.50	NO
	11be80	155	5775	10.58	11.50	NO

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.14 5G WIFI Antenna 2 Level3&5

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	15.70	16.50	NO
		44	5220	15.74	16.50	NO
		48	5240	15.73	16.50	NO
	11n20	36	5180	15.70	16.50	NO
		44	5220	15.96	16.50	NO
		48	5240	15.98	16.50	NO
	11n40	38	5190	16.11	16.50	NO
		46	5230	15.72	16.50	NO
	11ac20	36	5180	16.17	16.50	NO
		44	5220	15.77	16.50	NO
		48	5240	15.93	16.50	NO
	11ac40	38	5190	15.75	16.50	NO
		46	5230	16.08	16.50	NO
	11ac80	42	5210	16.00	16.50	NO
	11ac160	50	5250	15.73	16.50	NO
	11ax20	36	5180	16.01	16.50	NO
		44	5220	15.73	16.50	NO
		48	5240	15.74	16.50	NO
	11ax40	38	5190	16.08	16.50	NO
		46	5230	16.17	16.50	NO
	11ax80	42	5210	16.11	16.50	NO
	11ax160	50	5250	15.80	16.50	NO
	11be20	36	5180	16.17	16.50	NO
		44	5220	15.96	16.50	NO
48		5240	15.93	16.50	NO	
11be40	38	5190	15.80	16.50	NO	
	46	5230	16.05	16.50	NO	
11be80	42	5210	16.06	16.50	NO	
11be160	50	5250	15.77	16.50	NO	
WIFI 5G Band2	11a	52	5260	16.05	16.50	NO
		60	5300	15.84	16.50	NO
		64	5320	15.96	16.50	NO
	11n20	52	5260	15.80	16.50	NO
		60	5300	15.86	16.50	NO
		64	5320	15.90	16.50	NO
	11n40	54	5270	16.06	16.50	NO
		62	5310	16.04	16.50	NO
	11ac20	52	5260	16.14	16.50	NO

		60	5300	16.19	16.50	NO
		64	5320	15.86	16.50	NO
	11ac40	54	5270	16.14	16.50	NO
		62	5310	15.73	16.50	NO
	11ac80	58	5290	15.79	16.50	Yes
	11ax20	52	5260	15.85	16.50	NO
		60	5300	16.03	16.50	NO
		64	5320	15.88	16.50	NO
	11ax40	54	5270	16.08	16.50	NO
		62	5310	15.91	16.50	NO
	11ax80	58	5290	15.74	16.50	NO
	11be20	52	5260	15.82	16.50	NO
		60	5300	16.19	16.50	NO
		64	5320	16.16	16.50	NO
	11be40	54	5270	16.04	16.50	NO
		62	5310	16.15	16.50	NO
11be80	58	5290	16.20	16.50	NO	
WIFI 5G Band3	11a	100	5500	16.56	17.00	NO
		116	5580	16.64	17.00	NO
		140	5700	16.46	17.00	NO
	11n20	100	5500	16.38	17.00	NO
		116	5580	16.56	17.00	NO
		140	5700	16.66	17.00	NO
	11n40	102	5510	16.21	17.00	NO
		118	5590	16.22	17.00	NO
		134	5670	16.31	17.00	NO
	11ac20	100	5500	16.26	17.00	NO
		116	5580	16.54	17.00	NO
		140	5700	16.31	17.00	NO
	11ac40	102	5510	16.48	17.00	NO
		118	5590	16.28	17.00	NO
		134	5670	16.55	17.00	NO
	11ac80	106	5530	16.59	17.00	NO
		122	5610	16.20	17.00	Yes
	11ac160	114	5570	16.15	16.50	NO
	11ax20	100	5500	16.58	17.00	NO
		116	5580	16.33	17.00	NO
		140	5700	16.68	17.00	NO
	11ax40	102	5510	16.40	17.00	NO
		118	5590	16.24	17.00	NO
		134	5670	16.20	17.00	NO
	11ax80	106	5530	16.21	17.00	NO
		122	5610	16.55	17.00	NO

	11ax160	114	5570	15.76	16.50	NO	
	11be20	100	5500	16.46	17.00	NO	
		116	5580	16.32	17.00	NO	
		140	5700	16.59	17.00	NO	
	11be40	102	5510	16.31	17.00	NO	
		118	5590	16.70	17.00	NO	
		134	5670	16.55	17.00	NO	
	11be80	106	5530	16.65	17.00	NO	
122		5610	16.69	17.00	NO		
11be160	114	5570	15.98	16.50	NO		
WIFI 5.8G	11a	149	5745	15.63	16.00	NO	
		157	5785	15.29	16.00	NO	
		165	5825	15.20	16.00	NO	
	11n20	149	5745	15.29	16.00	NO	
		157	5785	15.44	16.00	NO	
		165	5825	15.30	16.00	NO	
	11n40	151	5755	15.40	16.00	NO	
		159	5795	15.23	16.00	Yes	
	11ac20	149	5745	15.37	16.00	NO	
		157	5785	15.68	16.00	NO	
		165	5825	15.32	16.00	NO	
	11ac40	151	5755	15.68	16.00	NO	
		159	5795	15.33	16.00	NO	
	11ac80	155	5775	14.81	15.50	NO	
	11ax20	149	5745	15.50	16.00	NO	
		157	5785	15.66	16.00	NO	
		165	5825	15.21	16.00	NO	
	11ax40	151	5755	15.45	16.00	NO	
		159	5795	15.31	16.00	NO	
	11ax80	155	5775	14.93	15.50	NO	
	11be20	149	5745	15.54	16.00	NO	
		157	5785	15.55	16.00	NO	
		165	5825	15.55	16.00	NO	
	11be40	151	5755	15.23	16.00	NO	
		159	5795	15.33	16.00	NO	
	11be80	155	5775	14.74	15.50	NO	
	<p>Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR</p>						

8.2.15 5G WIFI Antenna 4 Level3&5

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	14.17	15.00	NO
		44	5220	14.15	15.00	NO
		48	5240	13.94	15.00	NO
	11n20	36	5180	14.27	15.00	NO
		44	5220	14.04	15.00	NO
		48	5240	14.16	15.00	NO
	11n40	38	5190	14.04	15.00	NO
		46	5230	14.25	15.00	NO
	11ac20	36	5180	13.95	15.00	NO
		44	5220	14.34	15.00	NO
		48	5240	14.19	15.00	NO
	11ac40	38	5190	14.04	15.00	NO
		46	5230	14.04	15.00	NO
	11ac80	42	5210	14.32	15.00	NO
	11ac160	50	5250	14.05	15.00	NO
	11ax20	36	5180	13.91	15.00	NO
		44	5220	14.08	15.00	NO
		48	5240	14.09	15.00	NO
	11ax40	38	5190	14.33	15.00	NO
		46	5230	14.26	15.00	NO
	11ax80	42	5210	13.98	15.00	NO
	11ax160	50	5250	14.28	15.00	NO
	11be20	36	5180	14.05	15.00	NO
		44	5220	14.38	15.00	NO
48		5240	14.06	15.00	NO	
11be40	38	5190	14.09	15.00	NO	
	46	5230	14.15	15.00	NO	
11be80	42	5210	14.23	15.00	NO	
11be160	50	5250	13.90	15.00	NO	
WIFI 5G Band2	11a	52	5260	14.16	15.00	NO
		60	5300	13.93	15.00	NO
		64	5320	14.23	15.00	NO
	11n20	52	5260	14.20	15.00	NO
		60	5300	14.07	15.00	NO
		64	5320	14.03	15.00	NO
	11n40	54	5270	14.24	15.00	NO

	11ac20	62	5310	14.31	15.00	NO
		52	5260	14.17	15.00	NO
		60	5300	14.40	15.00	NO
		64	5320	14.32	15.00	NO
	11ac40	54	5270	14.02	15.00	NO
		62	5310	14.22	15.00	NO
	11ac80	58	5290	14.32	15.00	Yes
	11ax20	52	5260	14.23	15.00	NO
		60	5300	14.22	15.00	NO
		64	5320	14.37	15.00	NO
	11ax40	54	5270	14.21	15.00	NO
		62	5310	13.97	15.00	NO
	11ax80	58	5290	14.06	15.00	NO
	11be20	52	5260	13.95	15.00	NO
		60	5300	14.09	15.00	NO
64		5320	14.32	15.00	NO	
11be40	54	5270	14.33	15.00	NO	
	62	5310	13.95	15.00	NO	
11be80	58	5290	14.18	15.00	NO	
WIFI 5G Band3	11a	100	5500	13.77	14.50	NO
		116	5580	13.88	14.50	NO
		140	5700	13.60	14.50	NO
	11n20	100	5500	13.80	14.50	NO
		116	5580	13.82	14.50	NO
		140	5700	13.50	14.50	NO
	11n40	102	5510	13.85	14.50	NO
		118	5590	13.83	14.50	NO
		134	5670	13.42	14.50	NO
	11ac20	100	5500	13.53	14.50	NO
		116	5580	13.63	14.50	NO
		140	5700	13.57	14.50	NO
	11ac40	102	5510	13.87	14.50	NO
		118	5590	13.77	14.50	NO
		134	5670	13.70	14.50	NO
	11ac80	106	5530	13.51	14.50	NO
		122	5610	13.62	14.50	Yes
	11ac160	114	5570	13.34	14.00	NO
	11ax20	100	5500	13.88	14.50	NO
		116	5580	13.80	14.50	NO
		140	5700	13.85	14.50	NO
11ax40	102	5510	13.63	14.50	NO	
	118	5590	13.53	14.50	NO	
	134	5670	13.90	14.50	NO	

	11ax80	106	5530	13.88	14.50	NO	
		122	5610	13.78	14.50	NO	
	11ax160	114	5570	13.16	14.00	NO	
	11be20	100	5500	13.56	14.50	NO	
		116	5580	13.66	14.50	NO	
		140	5700	13.54	14.50	NO	
	11be40	102	5510	13.67	14.50	NO	
		118	5590	13.87	14.50	NO	
		134	5670	13.77	14.50	NO	
	11be80	106	5530	13.49	14.50	NO	
		122	5610	13.74	14.50	NO	
	11be160	114	5570	13.05	14.00	NO	
	WIFI 5.8G	11a	149	5745	13.42	14.50	NO
			157	5785	13.87	14.50	NO
165			5825	13.79	14.50	NO	
11n20		149	5745	13.88	14.50	NO	
		157	5785	13.66	14.50	NO	
		165	5825	13.73	14.50	NO	
11n40		151	5755	13.70	14.50	NO	
		159	5795	13.81	14.50	NO	
11ac20		149	5745	13.59	14.50	NO	
		157	5785	13.40	14.50	NO	
		165	5825	13.65	14.50	NO	
11ac40		151	5755	13.40	14.50	NO	
		159	5795	13.51	14.50	NO	
11ac80		155	5775	13.87	14.50	Yes	
11ax20		149	5745	13.48	14.50	NO	
		157	5785	13.76	14.50	NO	
		165	5825	13.66	14.50	NO	
11ax40		151	5755	13.64	14.50	NO	
		159	5795	13.43	14.50	NO	
11ax80		155	5775	13.80	14.50	NO	
11be20		149	5745	13.67	14.50	NO	
		157	5785	13.49	14.50	NO	
		165	5825	13.57	14.50	NO	
11be40		151	5755	13.88	14.50	NO	
		159	5795	13.88	14.50	NO	
11be80		155	5775	13.54	14.50	NO	

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.16 5G WIFI MIMO Antenna 2&4 Level3&5

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	17.85	18.50	NO
		44	5220	17.74	18.50	NO
		48	5240	17.69	18.50	NO
	11n20	36	5180	17.86	18.50	NO
		44	5220	17.60	18.50	NO
		48	5240	17.84	18.50	NO
	11n40	38	5190	17.85	18.50	NO
		46	5230	17.40	18.50	NO
	11ac20	36	5180	17.69	18.50	NO
		44	5220	17.63	18.50	NO
		48	5240	17.66	18.50	NO
	11ac40	38	5190	17.77	18.50	NO
		46	5230	17.82	18.50	NO
	11ac80	42	5210	17.57	18.50	NO
	11ac160	50	5250	17.88	18.50	NO
	11ax20	36	5180	17.76	18.50	NO
		44	5220	17.86	18.50	NO
		48	5240	17.56	18.50	NO
	11ax40	38	5190	17.56	18.50	NO
		46	5230	17.53	18.50	NO
	11ax80	42	5210	17.86	18.50	NO
	11ax160	50	5250	17.53	18.50	NO
	11be20	36	5180	17.56	18.50	NO
		44	5220	17.82	18.50	NO
48		5240	17.40	18.50	NO	
11be40	38	5190	17.69	18.50	NO	
	46	5230	17.88	18.50	NO	
11be80	42	5210	17.70	18.50	NO	
11be160	50	5250	17.42	18.50	NO	
WIFI 5G Band2	11a	52	5260	17.50	18.50	NO
		60	5300	17.85	18.50	NO
		64	5320	17.71	18.50	NO
	11n20	52	5260	17.86	18.50	NO
		60	5300	17.47	18.50	NO
		64	5320	17.59	18.50	NO
	11n40	54	5270	17.48	18.50	NO
		62	5310	17.90	18.50	NO

	11ac20	52	5260	17.51	18.50	NO
		60	5300	17.44	18.50	NO
		64	5320	17.90	18.50	NO
	11ac40	54	5270	17.57	18.50	NO
		62	5310	17.65	18.50	NO
	11ac80	58	5290	17.68	18.50	Yes
	11ax20	52	5260	17.48	18.50	NO
		60	5300	17.79	18.50	NO
		64	5320	17.89	18.50	NO
	11ax40	54	5270	17.86	18.50	NO
		62	5310	17.56	18.50	NO
	11ax80	58	5290	17.63	18.50	NO
	11be20	52	5260	17.50	18.50	NO
		60	5300	17.43	18.50	NO
64		5320	17.70	18.50	NO	
11be40	54	5270	17.44	18.50	NO	
	62	5310	17.69	18.50	NO	
11be80	58	5290	17.81	18.50	NO	
WIFI 5G Band3	11a	100	5500	17.28	18.00	NO
		116	5580	17.16	18.00	NO
		140	5700	17.02	18.00	NO
	11n20	100	5500	17.05	18.00	NO
		116	5580	17.17	18.00	NO
		140	5700	17.30	18.00	NO
	11n40	102	5510	17.35	18.00	NO
		118	5590	17.25	18.00	NO
		134	5670	17.39	18.00	NO
	11ac20	100	5500	17.35	18.00	NO
		116	5580	17.24	18.00	NO
		140	5700	16.96	18.00	NO
	11ac40	102	5510	17.35	18.00	NO
		118	5590	16.90	18.00	NO
		134	5670	17.08	18.00	NO
	11ac80	106	5530	17.33	18.00	NO
		122	5610	17.15	18.00	Yes
	11ac160	114	5570	16.58	17.50	NO
	11ax20	100	5500	17.18	18.00	NO
		116	5580	17.39	18.00	NO
		140	5700	16.95	18.00	NO
	11ax40	102	5510	16.94	18.00	NO
		118	5590	17.40	18.00	NO
		134	5670	17.12	18.00	NO
	11ax80	106	5530	16.93	18.00	NO

		122	5610	17.29	18.00	NO
	11ax160	114	5570	16.46	17.50	NO
	11be20	100	5500	16.94	18.00	NO
		116	5580	17.04	18.00	NO
		140	5700	17.06	18.00	NO
	11be40	102	5510	17.38	18.00	NO
		118	5590	16.95	18.00	NO
		134	5670	17.19	18.00	NO
	11be80	106	5530	16.91	18.00	NO
		122	5610	17.20	18.00	NO
11be160	114	5570	16.80	17.50	NO	
WIFI 5.8G	11a	149	5745	16.59	17.50	NO
		157	5785	16.40	17.50	NO
		165	5825	16.64	17.50	NO
	11n20	149	5745	16.67	17.50	NO
		157	5785	16.45	17.50	NO
		165	5825	16.71	17.50	NO
	11n40	151	5755	16.86	17.50	NO
		159	5795	16.88	17.50	NO
	11ac20	149	5745	16.81	17.50	NO
		157	5785	16.76	17.50	NO
		165	5825	16.72	17.50	NO
	11ac40	151	5755	16.48	17.50	NO
		159	5795	16.82	17.50	NO
	11ac80	155	5775	16.81	17.50	Yes
	11ax20	149	5745	16.75	17.50	NO
		157	5785	16.67	17.50	NO
		165	5825	16.80	17.50	NO
	11ax40	151	5755	16.40	17.50	NO
		159	5795	16.54	17.50	NO
	11ax80	155	5775	16.58	17.50	NO
	11be20	149	5745	16.44	17.50	NO
		157	5785	16.72	17.50	NO
		165	5825	16.49	17.50	NO
	11be40	151	5755	16.62	17.50	NO
		159	5795	16.43	17.50	NO
	11be80	155	5775	16.41	17.50	NO

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.17 WIFI Antenna 2 Level4&6

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	5.57	6.00	NO
		44	5220	5.39	6.00	NO
		48	5240	5.35	6.00	NO
	11n20	36	5180	5.23	6.00	NO
		44	5220	5.53	6.00	NO
		48	5240	5.61	6.00	NO
	11n40	38	5190	5.60	6.00	NO
		46	5230	5.53	6.00	NO
	11ac20	36	5180	5.40	6.00	NO
		44	5220	5.29	6.00	NO
		48	5240	5.49	6.00	NO
	11ac40	38	5190	5.39	6.00	NO
		46	5230	5.20	6.00	NO
	11ac80	42	5210	5.37	6.00	NO
	11ac160	50	5250	5.57	6.00	NO
	11ax20	36	5180	5.66	6.00	NO
		44	5220	5.55	6.00	NO
		48	5240	5.50	6.00	NO
	11ax40	38	5190	5.63	6.00	NO
		46	5230	5.50	6.00	NO
	11ax80	42	5210	5.66	6.00	NO
11ax160	50	5250	5.61	6.00	NO	
11be20	36	5180	5.70	6.00	NO	
	44	5220	5.29	6.00	NO	
	48	5240	5.35	6.00	NO	
11be40	38	5190	5.36	6.00	NO	
	46	5230	5.43	6.00	NO	
11be80	42	5210	5.38	6.00	NO	
11be160	50	5250	5.69	6.00	NO	
WIFI 5G Band2	11a	52	5260	5.63	6.00	NO
		60	5300	5.64	6.00	NO
		64	5320	5.57	6.00	NO
	11n20	52	5260	5.66	6.00	NO
		60	5300	5.67	6.00	NO
		64	5320	5.57	6.00	NO
	11n40	54	5270	5.67	6.00	NO
		62	5310	5.22	6.00	NO
	11ac20	52	5260	5.38	6.00	NO

		60	5300	5.28	6.00	NO
		64	5320	5.41	6.00	NO
	11ac40	54	5270	5.52	6.00	NO
		62	5310	5.20	6.00	NO
	11ac80	58	5290	5.61	6.00	Yes
	11ax20	52	5260	5.23	6.00	NO
		60	5300	5.42	6.00	NO
		64	5320	5.61	6.00	NO
	11ax40	54	5270	5.70	6.00	NO
		62	5310	5.27	6.00	NO
	11ax80	58	5290	5.49	6.00	NO
	11be20	52	5260	5.27	6.00	NO
		60	5300	5.31	6.00	NO
		64	5320	5.24	6.00	NO
	11be40	54	5270	5.30	6.00	NO
		62	5310	5.42	6.00	NO
11be80	58	5290	5.36	6.00	NO	
WIFI 5G Band3	11a	100	5500	5.83	6.50	NO
		116	5580	5.73	6.50	NO
		140	5700	5.79	6.50	NO
	11n20	100	5500	5.98	6.50	NO
		116	5580	6.17	6.50	NO
		140	5700	6.10	6.50	NO
	11n40	102	5510	6.06	6.50	NO
		118	5590	6.11	6.50	NO
		134	5670	5.99	6.50	NO
	11ac20	100	5500	6.10	6.50	NO
		116	5580	6.09	6.50	NO
		140	5700	6.05	6.50	NO
	11ac40	102	5510	6.20	6.50	NO
		118	5590	6.08	6.50	NO
		134	5670	5.81	6.50	NO
	11ac80	106	5530	5.76	6.50	NO
		122	5610	5.90	6.50	NO
	11ac160	114	5570	5.91	6.50	Yes
	11ax20	100	5500	5.76	6.50	NO
		116	5580	6.16	6.50	NO
		140	5700	6.10	6.50	NO
	11ax40	102	5510	5.92	6.50	NO
		118	5590	5.85	6.50	NO
		134	5670	5.84	6.50	NO
	11ax80	106	5530	5.81	6.50	NO
		122	5610	6.05	6.50	NO

	11ax160	114	5570	6.13	6.50	NO
	11be20	100	5500	6.07	6.50	NO
		116	5580	5.76	6.50	NO
		140	5700	6.19	6.50	NO
	11be40	102	5510	5.94	6.50	NO
		118	5590	5.93	6.50	NO
		134	5670	6.13	6.50	NO
	11be80	106	5530	5.84	6.50	NO
		122	5610	5.91	6.50	NO
	11be160	114	5570	6.04	6.50	NO
WIFI 5.8G	11a	149	5745	5.89	6.50	NO
		157	5785	5.80	6.50	NO
		165	5825	6.01	6.50	NO
	11n20	149	5745	5.87	6.50	NO
		157	5785	5.94	6.50	NO
		165	5825	5.78	6.50	NO
	11n40	151	5755	5.86	6.50	NO
		159	5795	5.82	6.50	NO
	11ac20	149	5745	6.15	6.50	NO
		157	5785	5.78	6.50	NO
		165	5825	5.81	6.50	NO
	11ac40	151	5755	5.75	6.50	NO
		159	5795	5.81	6.50	NO
	11ac80	155	5775	5.87	6.50	Yes
	11ax20	149	5745	6.07	6.50	NO
		157	5785	6.10	6.50	NO
		165	5825	5.89	6.50	NO
	11ax40	151	5755	5.78	6.50	NO
		159	5795	5.92	6.50	NO
	11ax80	155	5775	6.10	6.50	NO
	11be20	149	5745	5.92	6.50	NO
		157	5785	5.73	6.50	NO
		165	5825	5.91	6.50	NO
	11be40	151	5755	5.80	6.50	NO
		159	5795	6.15	6.50	NO
	11be80	155	5775	5.94	6.50	NO

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.2.18 5G WIFI MIMO Antenna 2&4 Level4&6

Band	Mode	Channel	Frequency (MHz)	AV power(dBm)	Tune Up (dBm)	SAR Test Require.
WIFI 5G Band1	11a	36	5180	7.65	8.50	NO
		44	5220	7.47	8.50	NO
		48	5240	7.72	8.50	NO
	11n20	36	5180	7.57	8.50	NO
		44	5220	7.75	8.50	NO
		48	5240	7.90	8.50	NO
	11n40	38	5190	7.53	8.50	NO
		46	5230	7.87	8.50	NO
	11ac20	36	5180	7.73	8.50	NO
		44	5220	7.79	8.50	NO
		48	5240	7.77	8.50	NO
	11ac40	38	5190	7.58	8.50	NO
		46	5230	7.52	8.50	NO
	11ac80	42	5210	7.44	8.50	NO
	11ac160	50	5250	7.84	8.50	NO
	11ax20	36	5180	7.46	8.50	NO
		44	5220	7.47	8.50	NO
		48	5240	7.55	8.50	NO
	11ax40	38	5190	7.90	8.50	NO
		46	5230	7.42	8.50	NO
	11ax80	42	5210	7.82	8.50	NO
	11ax160	50	5250	7.61	8.50	NO
	11be20	36	5180	7.56	8.50	NO
		44	5220	7.59	8.50	NO
48		5240	7.58	8.50	NO	
11be40	38	5190	7.56	8.50	NO	
	46	5230	7.86	8.50	NO	
11be80	42	5210	7.40	8.50	NO	
11be160	50	5250	7.45	8.50	NO	
WIFI 5G Band2	11a	52	5260	7.63	8.50	NO
		60	5300	7.59	8.50	NO
		64	5320	7.76	8.50	NO
	11n20	52	5260	7.51	8.50	NO
		60	5300	7.51	8.50	NO
		64	5320	7.72	8.50	NO
	11n40	54	5270	7.40	8.50	NO
		62	5310	7.76	8.50	NO
	11ac20	52	5260	7.71	8.50	NO

		60	5300	7.83	8.50	NO
		64	5320	7.61	8.50	NO
	11ac40	54	5270	7.79	8.50	NO
		62	5310	7.49	8.50	NO
	11ac80	58	5290	8.56	9.00	Yes
	11ax20	52	5260	7.81	8.50	NO
		60	5300	7.78	8.50	NO
		64	5320	7.60	8.50	NO
	11ax40	54	5270	7.48	8.50	NO
		62	5310	7.66	8.50	NO
	11ax80	58	5290	7.61	8.50	NO
	11be20	52	5260	7.53	8.50	NO
		60	5300	7.62	8.50	NO
		64	5320	7.76	8.50	NO
	11be40	54	5270	7.42	8.50	NO
		62	5310	7.58	8.50	NO
	11be80	58	5290	7.42	8.50	NO
	WIFI 5G Band3	11a	100	5500	9.21	10.00
116			5580	9.38	10.00	NO
140			5700	9.31	10.00	NO
11n20		100	5500	9.17	10.00	NO
		116	5580	8.92	10.00	NO
		140	5700	8.91	10.00	NO
11n40		102	5510	9.18	10.00	NO
		118	5590	9.02	10.00	NO
		134	5670	9.19	10.00	NO
11ac20		100	5500	9.18	10.00	NO
		116	5580	8.96	10.00	NO
		140	5700	9.35	10.00	NO
11ac40		102	5510	9.38	10.00	NO
		118	5590	9.09	10.00	NO
		134	5670	9.33	10.00	NO
11ac80		106	5530	9.11	10.00	NO
		122	5610	9.37	10.00	NO
11ac160		114	5570	9.16	10.00	Yes
11ax20		100	5500	9.08	10.00	NO
		116	5580	9.29	10.00	NO
		140	5700	9.04	10.00	NO
11ax40		102	5510	9.26	10.00	NO
		118	5590	9.02	10.00	NO
		134	5670	8.93	10.00	NO
11ax80		106	5530	9.34	10.00	NO
		122	5610	9.15	10.00	NO

	11ax160	114	5570	9.21	10.00	NO
	11be20	100	5500	9.03	10.00	NO
		116	5580	8.94	10.00	NO
		140	5700	9.12	10.00	NO
	11be40	102	5510	9.12	10.00	NO
		118	5590	9.01	10.00	NO
		134	5670	9.37	10.00	NO
	11be80	106	5530	9.08	10.00	NO
		122	5610	9.32	10.00	NO
	11be160	114	5570	8.91	10.00	NO
WIFI 5.8G	11a	149	5745	8.60	9.50	NO
		157	5785	8.75	9.50	NO
		165	5825	8.60	9.50	NO
	11n20	149	5745	8.80	9.50	NO
		157	5785	8.80	9.50	NO
		165	5825	8.61	9.50	NO
	11n40	151	5755	8.47	9.50	NO
		159	5795	8.41	9.50	NO
	11ac20	149	5745	8.44	9.50	NO
		157	5785	8.58	9.50	NO
		165	5825	8.80	9.50	NO
	11ac40	151	5755	8.77	9.50	NO
		159	5795	8.73	9.50	NO
	11ac80	155	5775	8.84	9.50	Yes
	11ax20	149	5745	8.73	9.50	NO
		157	5785	8.54	9.50	NO
		165	5825	8.72	9.50	NO
	11ax40	151	5755	8.73	9.50	NO
		159	5795	8.81	9.50	NO
	11ax80	155	5775	8.59	9.50	NO
	11be20	149	5745	8.52	9.50	NO
		157	5785	8.81	9.50	NO
		165	5825	8.83	9.50	NO
	11be40	151	5755	8.57	9.50	NO
		159	5795	8.68	9.50	NO
	11be80	155	5775	8.55	9.50	NO

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR

8.3 Bluetooth Antenna 3 Level1&3&5

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
AV Power (dBm)	13.89	14.12	13.81	10.94	10.71	10.91
Tune-Up Limit (dBm)	14.50	14.50	14.50	11.50	111.50	111.50
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
AV Power (dBm)	10.63	10.62	10.84	/	/	/
Tune-Up Limit (dBm)	11.50	11.50	11.50	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
AV Power (dBm)	13.74	13.72	13.50	13.60	13.60	13.71
Tune-Up Limit (dBm)	14.50	14.50	14.50	14.50	14.50	14.50
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

8.4 Bluetooth Antenna 1 Level1&3

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
AV Power (dBm)	13.65	13.86	13.74	10.75	10.94	10.73
Tune-Up Limit (dBm)	14.50	14.50	14.50	11.50	111.50	111.50
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
AV Power (dBm)	10.59	10.51	10.99	/	/	/
Tune-Up Limit (dBm)	11.50	11.50	11.50	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
AV Power (dBm)	13.80	13.80	13.60	13.94	13.54	13.57
Tune-Up Limit (dBm)	14.50	14.50	14.50	14.50	14.50	14.50
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

8.5 Bluetooth Antenna 1 Level2

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
AV Power (dBm)	10.73	10.65	10.61	7.54	7.69	7.86
Tune-Up Limit (dBm)	11.00	11.00	11.00	8.50	8.50	8.50
SAR Test Require	YES	NO	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
AV Power (dBm)	7.87	7.67	7.53	/	/	/
Tune-Up Limit (dBm)	8.50	8.50	8.50	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
AV Power (dBm)	10.35	10.39	10.40	10.29	10.32	10.26
Tune-Up Limit (dBm)	11.00	11.00	11.00	11.00	11.00	11.00
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

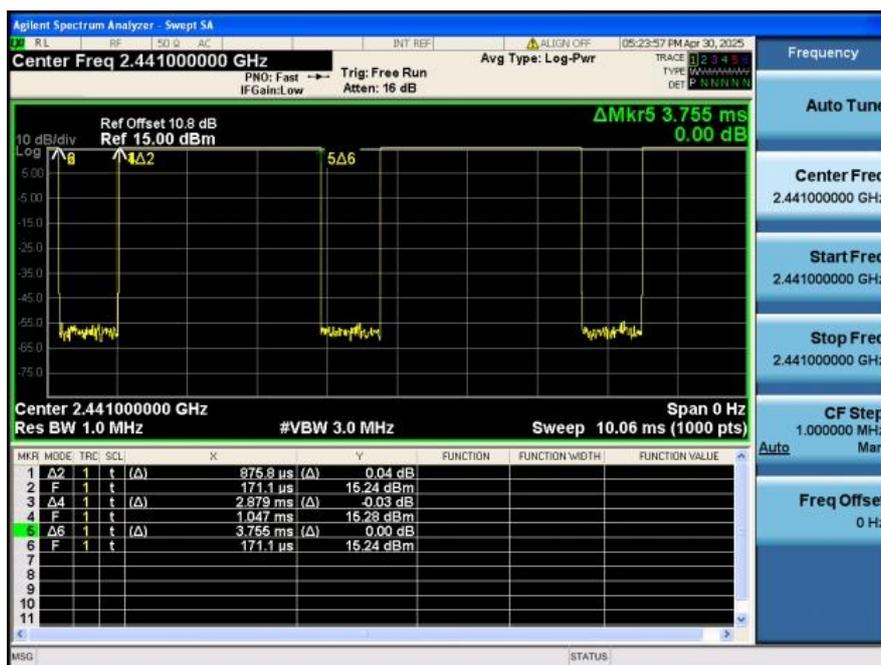
8.6 Bluetooth Antenna 1 Level4

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
AV Power (dBm)	7.85	7.81	7.72	4.83	4.96	4.50
Tune-Up Limit (dBm)	8.50	8.50	8.50	5.50	5.50	5.50
SAR Test Require	YES	NO	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
AV Power (dBm)	4.98	4.70	4.60	/	/	/
Tune-Up Limit (dBm)	5.50	5.50	5.50	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
AV Power (dBm)	7.69	7.51	7.75	7.71	7.89	7.99
Tune-Up Limit (dBm)	8.50	8.50	8.50	8.50	8.50	8.50
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 76.67 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle



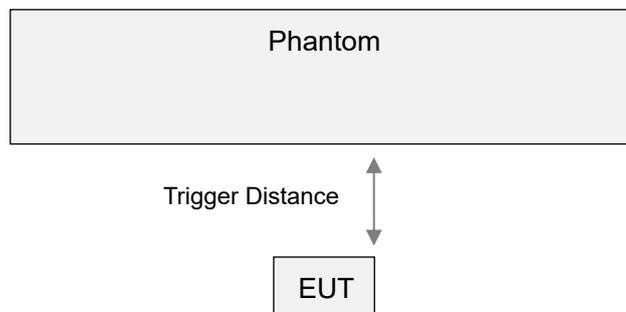
9 PROXIMITY SENSOR TRIGGERING TEST

9.1 Procedures for determining proximity sensor distance

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

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

9.1.1 proximity sensor channel-1

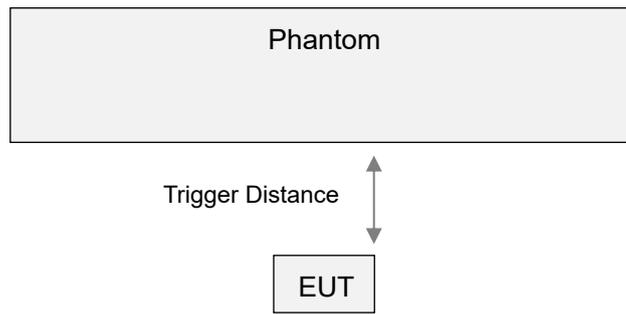


EUT moving toward Phantom

Distance in mm	1~10	12	13	14	15	16	17	18	19	20	21
Back Side	On	On	On	On	On	On	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for ANT1.

9.1.2 proximity sensor channel-2



EUT moving toward Phantom

Distance in mm	1~10	12	13	14	15	16	17	18	19	20	21
Back Side	On	On	On	On	On	On	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for ANT2.

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

ANT1 of proximity sensor-

EUT Sides	Additional SAR test Distance in mm
Back Side	15

ANT2 of proximity sensor -2

EUT Sides	Additional SAR test Distance in mm
Back Side	15

10 TEST EXCLUSION CONSIDERATION

10.1 Antenna location sketch

For antenna location and support bands please refer the document “BL-SZ2541436-AI EUT internal photo.pdf”.

10.2 SAR Test Consideration Table

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

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

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

10.2.1 Laptop mode SAR Test Consideration

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

RF exposure Position	RF exposure scenarios
Back Side	Body
Left Edge	Body
Right Edge	Body
Top Edge	Body
Bottom Edge	Body

Antenna1 Body RF exposure scenarios

Position	Band	Frequency (GHz)	D (mm)	Plimit (mW)	Tune-up power (dBm)	Tune-up power (mW)	SAR Test
Back Side	Bluetooth	2.48	0	0.00	14.50	28.18	Yes
	2.4G	2.462	0	0.00	18.00	63.10	Yes
Left Edge	Bluetooth	2.48	111.8	1010.63	14.50	28.18	No
	2.4G	2.462	111.8	1011.56	18.00	63.10	No
Right Edge	Bluetooth	2.48	7	5.16	14.50	28.18	Yes
	2.4G	2.462	7	5.19	18.00	63.10	Yes
Top Edge	Bluetooth	2.48	23.6	52.22	14.50	28.18	Yes
	2.4G	2.462	23.6	52.40	18.00	63.10	Yes
Bottom Edge	Bluetooth	2.48	155.3	1890.01	14.50	28.18	No
	2.4G	2.462	155.3	1890.76	18.00	63.10	No

Antenna2 Body RF exposure scenarios

Position	Band	Frequency (GHz)	D (mm)	Plimit (mW)	Tune-up power (dBm)	Tune-up power (mW)	SAR Test
Back Side	5.2&3G	5.32	0	0.00	19.00	79.43	Yes
	5.6G	5.71	0	0.00	18.50	70.79	Yes
	5.8G	5.825	0	0.00	20.50	112.20	Yes
Left Edge	5.2&3G	5.32	114.2	959.03	19.00	79.43	No
	5.6G	5.71	114.2	950.81	18.50	70.79	No
	5.8G	5.825	114.2	948.50	20.50	112.20	No
Right Edge	5.2&3G	5.32	7	2.96	19.00	79.43	Yes
	5.6G	5.71	7	2.81	18.50	70.79	Yes
	5.8G	5.825	7	2.77	20.50	112.20	Yes
Top Edge	5.2&3G	5.32	50.1	174.16	19.00	79.43	No
	5.6G	5.71	50.1	170.49	18.50	70.79	No
	5.8G	5.825	50.1	169.47	20.50	112.20	No
Bottom Edge	5.2&3G	5.32	144.3	1556.67	19.00	79.43	No
	5.6G	5.71	144.3	1548.88	18.50	70.79	No
	5.8G	5.825	144.3	1546.69	20.50	112.20	No

Antenna3 Body RF exposure scenarios

Position	Band	Frequency (GHz)	D (mm)	Plimit (mW)	Tune-up power (dBm)	Tune-up power (mW)	SAR Test
Back Side	Bluetooth	2.48	0	0.00	14.50	28.18	Yes
	2.4G	2.462	0	0.00	18.50	70.79	Yes
	5.2&3G	5.32	0	0.00	11.00	12.59	Yes
	5.8G	5.825	0	0.00	11.00	12.59	Yes
Left Edge	Bluetooth	2.48	78.1	510.32	14.50	28.18	No
	2.4G	2.462	78.1	511.08	18.50	70.79	No
	5.2&3G	5.32	78.1	436.68	11.00	12.59	No
	5.8G	5.825	78.1	428.67	11.00	12.59	No
Right Edge	Bluetooth	2.48	0	0.00	14.50	28.18	Yes
	2.4G	2.462	0	0.00	18.50	70.79	Yes
	5.2&3G	5.32	0	0.00	11.00	12.59	Yes
	5.8G	5.825	0	0.00	11.00	12.59	Yes
Top Edge	Bluetooth	2.48	178	2450.87	14.50	28.18	No
	2.4G	2.462	178	2451.32	18.50	70.79	No
	5.2&3G	5.32	178	2403.99	11.00	12.59	No
	5.8G	5.825	178	2398.48	11.00	12.59	No
Bottom Edge	Bluetooth	2.48	0	0.00	14.50	28.18	Yes
	2.4G	2.462	0	0.00	18.50	70.79	Yes
	5.2&3G	5.32	0	0.00	11.00	12.59	Yes
	5.8G	5.825	0	0.00	11.00	12.59	Yes

Antenna4 Body RF exposure scenarios

Position	Band	Frequency (GHz)	D (mm)	Plimit (mW)	Tune-up power (dBm)	Tune-up power (mW)	SAR Test
Back Side	5.2&3G	5.32	0	0.00	19.00	79.43	Yes
	5.6G	5.71	0	0.00	18.50	70.79	Yes
	5.8G	5.825	0	0.00	20.00	100.00	Yes
Left Edge	5.2&3G	5.32	114.2	959.03	19.00	79.43	No
	5.6G	5.71	114.2	950.81	18.50	70.79	No
	5.8G	5.825	114.2	948.50	20.00	100.00	No
Right Edge	5.2&3G	5.32	0	0.00	19.00	79.43	Yes
	5.6G	5.71	0	0.00	18.50	70.79	Yes
	5.8G	5.825	0	0.00	20.00	100.00	Yes
Top Edge	5.2&3G	5.32	63.2	281.72	19.00	79.43	No
	5.6G	5.71	63.2	276.77	18.50	70.79	No
	5.8G	5.825	63.2	275.40	20.00	100.00	No
Bottom Edge	5.2&3G	5.32	119.6	1055.30	19.00	79.43	No
	5.6G	5.71	119.6	1047.00	18.50	70.79	No
	5.8G	5.825	119.6	1044.67	20.00	100.00	No

Note:

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

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

where

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

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

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

5. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
6. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D04 SAR test exclusion applies to the OFDM configuration.
 - b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
7. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.
8. For Limb SAR, SAR test exemption considered by applying a factor of 2.5 to the applicable power level thresholds.

11 TEST RESULT

Band	Mode	Power Reduction	Test Position	Gap (mm)	Ant.	Ch.	Freq. (MHz)	AV Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Meas No.
Bluetooth	DH5 1Mbps	Level1&3&5	Back Side	0	Ant.3	39	2441	13.89	14.50	1.151	76.67	1.304	0.012	0.018	/
Bluetooth	DH5 1Mbps	Level1&3&5	Right Edge	0	Ant.3	39	2441	13.89	14.50	1.151	76.67	1.304	0.088	0.132	/
Bluetooth	DH5 1Mbps	Level1&3&5	Bottom Edge	0	Ant.3	39	2441	13.89	14.50	1.151	76.67	1.304	0.095	0.143	/
Bluetooth	DH5 1Mbps	Level2	Back Side	0	Ant.1	0	2402	10.73	11.50	1.194	76.67	1.304	0.402	0.626	1#
Bluetooth	DH5 1Mbps	Level1	Right Edge	0	Ant.1	39	2441	13.86	14.50	1.159	76.67	1.304	0.096	0.145	/
Bluetooth	DH5 1Mbps	Level1	Top Edge	0	Ant.1	39	2441	13.86	14.50	1.159	76.67	1.304	0.048	0.073	/
Bluetooth	DH5 1Mbps	Level4	Back Side	0	Ant.1	0	2402	7.85	8.50	1.161	76.67	1.304	0.226	0.342	/
Bluetooth	DH5 1Mbps	Level3	Right Edge	0	Ant.1	39	2441	13.86	14.50	1.159	76.67	1.304	0.096	0.145	/
Bluetooth	DH5 1Mbps	Level3	Top Edge	0	Ant.1	39	2441	13.86	14.50	1.159	76.67	1.304	0.048	0.073	/
WLAN2.4GHz	802.11b 1Mbps	Level1&5	Back Side	0	Ant.3	11	2462	17.73	18.50	1.194	98.47	1.016	0.069	0.084	/
WLAN2.4GHz	802.11b 1Mbps	Level1&5	Right Edge	0	Ant.3	11	2462	17.73	18.50	1.194	98.47	1.016	0.230	0.279	/
WLAN2.4GHz	802.11b 1Mbps	Level1&5	Bottom Edge	0	Ant.3	11	2462	17.73	18.50	1.194	98.47	1.016	0.297	0.360	/
WLAN2.4GHz	802.11b 1Mbps	Level2	Back Side	0	Ant.1	11	2462	11.47	12.50	1.268	98.47	1.016	0.693	0.893	2#
WLAN2.4GHz	802.11b 1Mbps	Level1	Right Edge	0	Ant.1	11	2462	17.36	18.00	1.159	98.47	1.016	0.241	0.284	/
WLAN2.4GHz	802.11b 1Mbps	Level1	Top Edge	0	Ant.1	11	2462	17.36	18.00	1.159	98.47	1.016	0.089	0.105	/
WLAN2.4GHz	802.11b 1Mbps	Level2	Back Side	0	Ant.1	1	2412	10.96	11.50	1.132	98.47	1.016	0.618	0.711	/
WLAN2.4GHz	802.11b 1Mbps	Level2	Back Side	0	Ant.1	6	2437	10.89	11.50	1.151	98.47	1.016	0.626	0.732	/
WLAN2.4GHz	802.11b 1Mbps	Level6	Back Side	0	Ant.1	11	2462	10.28	11.00	1.180	98.47	1.016	0.543	0.651	/
WLAN2.4GHz	802.11b 1Mbps	Level5	Right Edge	0	Ant.1	11	2462	17.36	18.00	1.159	98.47	1.016	0.241	0.284	/
WLAN2.4GHz	802.11b 1Mbps	Level5	Top Edge	0	Ant.1	11	2462	17.36	18.00	1.159	98.47	1.016	0.089	0.105	/
WLAN2.4GHz	802.11g 6Mbps	Level2	Back Side	0	Ant.3+ Ant.1	11	2462	14.42	15.50	1.282	96.53	1.036	0.622	0.826	/
WLAN2.4GHz	802.11g 6Mbps	Level1	Right Edge	0	Ant.3+ Ant.1	11	2462	20.28	21.00	1.180	96.53	1.036	0.239	0.292	/
WLAN2.4GHz	802.11g 6Mbps	Level1	Top Edge	0	Ant.3+ Ant.1	11	2462	20.28	21.00	1.180	96.53	1.036	0.098	0.120	/
WLAN2.4GHz	802.11g 6Mbps	Level1	Bottom Edge	0	Ant.3+ Ant.1	11	2462	20.28	21.00	1.180	96.53	1.036	0.246	0.301	/
WLAN2.4GHz	802.11g 6Mbps	Level6	Back Side	0	Ant.3+ Ant.1	11	2462	13.35	14.00	1.161	96.53	1.036	0.507	0.610	/
WLAN2.4GHz	802.11g 6Mbps	Level5	Right Edge	0	Ant.3+ Ant.1	11	2462	20.28	21.00	1.180	96.53	1.036	0.239	0.292	/
WLAN2.4GHz	802.11g 6Mbps	Level5	Top Edge	0	Ant.3+ Ant.1	11	2462	20.28	21.00	1.180	96.53	1.036	0.098	0.120	/
WLAN2.4GHz	802.11g 6Mbps	Level5	Bottom Edge	0	Ant.3+ Ant.1	11	2462	20.28	21.00	1.180	96.53	1.036	0.246	0.301	/

WLAN5.3GHz	802.11ac-VHT80 MCS0	Level2	Back Side	0	Ant.2	58	5290	7.42	8.00	1.143	85.61	1.168	0.705	0.941	/
WLAN5.3GHz	802.11a 6Mbps	Level1	Right Edge	0	Ant.2	52	5260	17.73	18.50	1.194	96.27	1.039	0.758	0.940	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level4&6	Back Side	0	Ant.2	58	5290	5.61	6.00	1.094	85.61	1.168	0.463	0.592	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.2	58	5290	15.79	16.50	1.178	85.61	1.168	0.435	0.599	/
WLAN5.3GHz	802.11n-HT40 MCS0	Level1	Back Side	0	Ant.4	54	5270	16.37	17.00	1.156	92.29	1.084	0.287	0.360	/
WLAN5.3GHz	802.11n-HT40 MCS0	Level1	Right Edge	0	Ant.4	54	5270	16.37	17.00	1.156	92.29	1.084	0.761	0.954	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level3&5	Back Side	0	Ant.4	58	5290	14.32	15.00	1.169	85.61	1.168	0.194	0.265	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.4	58	5290	14.32	15.00	1.169	85.61	1.168	0.473	0.646	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level2	Back Side	0	Ant.2+ Ant.4	58	5290	10.05	11.00	1.245	85.61	1.168	0.706	1.027	3#
WLAN5.3GHz	802.11n-HT40 MCS0	Level1	Right Edge	0	Ant.2+ Ant.4	54	5270	19.46	20.00	1.132	92.29	1.084	0.753	0.924	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level4&6	Back Side	0	Ant.2+ Ant.4	58	5290	8.56	9.00	1.125	85.61	1.168	0.496	0.641	/
WLAN5.3GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.2+ Ant.4	58	5290	17.68	18.50	1.208	85.61	1.168	0.465	0.656	/
WLAN5.3GHz	802.11n-HT40 MCS0	Level1&3&5	Back Side	0	Ant.3	54	5270	9.52	10.50	1.253	92.29	1.084	0.036	0.049	/
WLAN5.3GHz	802.11n-HT40 MCS0	Level1&3&5	Right Edge	0	Ant.3	54	5270	9.52	10.50	1.253	92.29	1.084	0.081	0.110	/
WLAN5.3GHz	802.11n-HT40 MCS0	Level1&3&5	Bottom Edge	0	Ant.3	54	5270	9.52	10.50	1.253	92.29	1.084	0.134	0.182	/
WLAN5.6GHz	802.11ac-VHT160 MCS0	Level2	Back Side	0	Ant.2	114	5570	8.09	9.00	1.233	77.75	1.286	0.621	0.985	/
WLAN5.6GHz	802.11n-HT40 MCS0	Level1	Right Edge	0	Ant.2	134	5670	17.62	18.50	1.225	92.29	1.084	0.629	0.835	/
WLAN5.6GHz	802.11ac-VHT160 MCS0	Level4&6	Back Side	0	Ant.2	114	5570	5.91	6.50	1.146	77.75	1.286	0.374	0.551	/
WLAN5.6GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.2	122	5610	16.20	17.00	1.202	85.61	1.168	0.382	0.536	/
WLAN5.6GHz	802.11ac-VHT80 MCS0	Level1	Back Side	0	Ant.4	122	5610	15.46	16.00	1.132	85.61	1.168	0.163	0.216	/
WLAN5.6GHz	802.11ac-VHT80 MCS0	Level1	Right Edge	0	Ant.4	122	5610	15.46	16.00	1.132	85.61	1.168	0.651	0.861	/
WLAN5.6GHz	802.11ac-VHT80 MCS0	Level3&5	Back Side	0	Ant.4	122	5610	13.62	14.50	1.225	85.61	1.168	0.098	0.140	/

WLAN5.6GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.4	122	5610	13.62	14.50	1.225	85.61	1.168	0.396	0.567	/
WLAN5.6GHz	802.11ac-VHT160 MCS0	Level2	Back Side	0	Ant.2+ Ant.4	114	5570	11.05	12.00	1.245	77.75	1.286	0.631	1.010	4#
WLAN5.6GHz	802.11ac-VHT80 MCS0	Level1	Right Edge	0	Ant.2+ Ant.4	122	5610	18.56	19.50	1.242	85.61	1.168	0.675	0.979	/
WLAN5.6GHz	802.11ac-VHT160 MCS0	Level4&6	Back Side	0	Ant.2+ Ant.4	114	5570	9.16	10.00	1.213	77.75	1.286	0.386	0.602	/
WLAN5.6GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.2+ Ant.4	122	5610	17.15	18.00	1.216	85.61	1.168	0.416	0.591	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level2	Back Side	0	Ant.2	155	5775	7.75	8.50	1.189	85.61	1.168	0.702	0.975	/
WLAN5.8GHz	802.11n-HT40 MCS0	Level1	Right Edge	0	Ant.2	159	5795	17.20	18.00	1.202	92.29	1.084	0.683	0.890	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level4&6	Back Side	0	Ant.2	155	5775	5.87	6.50	1.156	85.61	1.168	0.455	0.614	/
WLAN5.8GHz	802.11n-HT40 MCS0	Level3&5	Right Edge	0	Ant.2	159	5795	15.23	16.00	1.194	92.29	1.084	0.443	0.573	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level1	Back Side	0	Ant.4	155	5775	15.95	16.50	1.135	85.61	1.168	0.235	0.312	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level1	Right Edge	0	Ant.4	155	5775	15.95	16.50	1.135	85.61	1.168	0.677	0.897	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level3&5	Back Side	0	Ant.4	155	5775	13.87	14.50	1.156	85.61	1.168	0.142	0.192	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.4	155	5775	13.87	14.50	1.156	85.61	1.168	0.431	0.582	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level2	Back Side	0	Ant.2+ Ant.4	155	5775	10.76	11.50	1.186	85.61	1.168	0.757	1.049	5#
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level1	Right Edge	0	Ant.2+ Ant.4	155	5775	18.87	19.50	1.156	85.61	1.168	0.735	0.992	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level4&6	Back Side	0	Ant.2+ Ant.4	155	5775	8.84	9.50	1.164	85.61	1.168	0.465	0.632	/
WLAN5.8GHz	802.11ac-VHT80 MCS0	Level3&5	Right Edge	0	Ant.2+ Ant.4	155	5775	16.81	17.50	1.172	85.61	1.168	0.453	0.620	/
WLAN5.8GHz	802.11a 6Mbps	Level1&3&5	Back Side	0	Ant.3	157	5785	10.09	11.00	1.233	96.27	1.039	0.056	0.072	/
WLAN5.8GHz	802.11a 6Mbps	Level1&3&5	Right Edge	0	Ant.3	157	5785	10.09	11.00	1.233	96.27	1.039	0.089	0.114	/
WLAN5.8GHz	802.11a 6Mbps	Level1&3&5	Bottom Edge	0	Ant.3	157	5785	10.09	11.00	1.233	96.27	1.039	0.105	0.135	/

Band	Mode	Power Reduction	Test Position	Gap (mm)	Ant.	Ch.	Freq. (MHz)	AV Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Meas No.
Body(N-1)															
Bluetooth	DH5 1Mbps	Full Power	Back Side	15	Ant.1	0	2402	13.86	14.50	1.159	76.53	1.307	0.046	0.070	/
Bluetooth	DH5 1Mbps	Full Power	Back Side	15	Ant.1	39	2441	13.65	14.50	1.216	76.53	1.307	0.042	0.067	/
Bluetooth	DH5 1Mbps	Full Power	Back Side	15	Ant.1	78	2480	13.74	14.50	1.191	76.53	1.307	0.000	0.000	/
WLAN2.4GHz	802.11b 1Mbps	Full Power	Back Side	15	Ant.1	11	2462	17.36	18.00	1.159	98.47	1.016	0.102	0.120	/
WLAN2.4GHz	802.11b 1Mbps	Full Power	Back Side	15	Ant.1	1	2412	16.89	17.50	1.151	98.47	1.016	0.122	0.143	/
WLAN2.4GHz	802.11b 1Mbps	Full Power	Back Side	15	Ant.1	6	2437	16.78	17.50	1.180	98.47	1.016	0.075	0.090	/
WLAN2.4GHz	802.11g 6Mbps	Full Power	Back Side	15	Ant.3+ Ant.1	11	2462	20.28	21.00	1.181	96.53	1.036	0.101	0.124	/
WLAN2.4GHz	802.11g 6Mbps	Full Power	Back Side	15	Ant.3+ Ant.1	1	2412	20.10	21.00	1.230	96.53	1.036	0.120	0.153	/
WLAN2.4GHz	802.11g 6Mbps	Full Power	Back Side	15	Ant.3+ Ant.1	6	2437	20.11	21.00	1.227	96.53	1.036	0.132	0.168	/
WLAN5.3GHz	802.11a 6Mbps	Full Power	Back Side	15	Ant.2	52	5260	17.73	18.50	1.194	96.27	1.039	0.377	0.468	/
WLAN5.3GHz	802.11a 6Mbps	Full Power	Back Side	15	Ant.2	60	5300	17.59	18.50	1.233	96.27	1.039	0.360	0.461	/
WLAN5.3GHz	802.11a 6Mbps	Full Power	Back Side	15	Ant.2	64	5320	17.62	18.50	1.225	96.27	1.039	0.349	0.444	/
WLAN5.3GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2+ Ant.4	54	5270	19.46	20.00	1.132	85.61	1.168	0.314	0.415	/
WLAN5.3GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2+ Ant.4	62	5310	19.35	20.00	1.161	92.29	1.084	0.331	0.417	/
WLAN5.6GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2	134	5670	17.62	18.50	1.225	92.29	1.084	0.441	0.585	/
WLAN5.6GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2	102	5510	17.13	18.00	1.222	92.29	1.084	0.385	0.510	/
WLAN5.6GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2	118	5590	17.29	18.00	1.178	92.29	1.084	0.395	0.504	/
WLAN5.6GHz	802.11ac- VHT80 MCS0	Full Power	Back Side	15	Ant.2+ Ant.4	122	5610	18.56	19.50	1.241	85.61	1.168	0.311	0.451	/
WLAN5.6GHz	802.11ac- VHT80 MCS0	Full Power	Back Side	15	Ant.2+ Ant.4	106	5530	18.56	19.50	1.241	85.61	1.168	0.269	0.390	/
WLAN5.8GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2	159	5795	17.20	18.00	1.202	92.29	1.084	0.539	0.702	/
WLAN5.8GHz	802.11n-HT40 MCS0	Full Power	Back Side	15	Ant.2	151	5755	17.06	18.00	1.242	92.29	1.084	0.485	0.653	/
WLAN5.8GHz	802.11ac- VHT80 MCS0	Full Power	Back Side	15	Ant.2+ Ant.4	155	5775	18.87	19.50	1.157	85.61	1.168	0.432	0.584	/

12 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Note: The maximum measurement 1g SAR value is 0.761 W/Kg which is < 0.80 W/kg, so repeated measurement is not required

13 SIMULTANEOUS TRANSMISSION

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

According KDB 447498 D04, simultaneous transmission:

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

13.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Tx Combination	Mode	Body
1	WIFI5.3G MIMO+WIFI5.8G Ant.3+Bluetooth Ant.3	NoDBS	Yes
2	WIFI5.8G MIMO+WIFI5.3G Ant.3+Bluetooth Ant.3	NoDBS	Yes
3	WIFI5.6G MIMO+Bluetooth Ant.3	NoDBS	Yes
4	WIFI5.3G MIMO+WIFI5.8G Ant.3+Bluetooth Ant.1	NoDBS	Yes
5	WIFI5.8G MIMO+WIFI5.3G Ant.3+Bluetooth Ant.1	NoDBS	Yes
6	WIFI5.6G MIMO+Bluetooth Ant.1	NoDBS	Yes
7	WIFI2.4G Ant.1+WIFI5.3G MIMO+WIFI5.8G Ant.3+BT Ant.3	DBS	Yes
8	WIFI2.4G Ant.1+WIFI5.6G MIMO+BT Ant.3	DBS	Yes
9	WIFI2.4G Ant.1+WIFI5.8G MIMO+WIFI5.3G Ant.3+BT Ant.3	DBS	Yes
10	WIFI2.4G MIMO+WIFI5.3G MIMO+WIFI5.8G Ant.3	DBS	Yes
11	WIFI2.4G MIMO+WIFI5.6G MIMO	DBS	Yes
12	WIFI2.4G MIMO+WIFI5.8G MIMO+5.3G Ant.3	DBS	Yes

Note:

- WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
 - When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
 - The maximum SAR summation is calculated based on the same configuration and test position.
- 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.

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Highest Bluetooth and WIFI Sum Body SAR of Simultaneous Transmission(NoDBS)

Position	Standalone SAR							SUM SAR					
	1	2	3	4	5	6	7						
	5.3G WIFI Max	5.6G WIFI Max	5.8G WIFI Max	5.3G Ant.3	5.8G Ant.3	BT Ant.3	BT Ant.1	1+5+6	2+6	3+4+6	1+5+7	2+7	3+4+7
Back Side 0mm	0.641	0.602	0.632	0.049	0.072	0.018	0.343	0.731	0.620	0.699	1.056	0.945	1.024
Right Edge 0mm	0.655	0.591	0.620	0.110	0.114	0.132	0.145	0.901	0.723	0.862	0.914	0.736	0.875
Top Edge 0mm	0.000	0.000	0.000	0.000	0.000	0.000	0.073	0.000	0.000	0.000	0.073	0.073	0.073
Bottom Edge 0mm	0.000	0.000	0.000	0.182	0.135	0.143	0.000	0.278	0.143	0.325	0.135	0.000	0.182

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 1.056 W/Kg < 1.1 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.2 Highest Bluetooth and WIFI Sum Body SAR of Simultaneous Transmission(DBS)

Position	Standalone SAR								SUM SAR					
	1	2	3	4	5	6	7	8						
	2.4G Ant.1	2.4G Ant.3+1	5.3G Ant.2+4	5.6G Ant.2+4	5.8G Ant.2+4	5.3G Ant.3	5.8G Ant.3	BT Ant.3	1+3+7+8	1+4+8	1+5+6+8	2+3+7	2+4	2+5+6
Back Side 0mm	0.651	0.610	0.641	0.602	0.632	0.049	0.072	0.018	1.382	1.271	1.301	1.323	1.212	1.291
Right Edge 0mm	0.284	0.292	0.655	0.591	0.620	0.110	0.114	0.132	1.185	1.007	1.036	1.061	0.883	1.022
Top Edge 0mm	0.105	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.105	0.105	0.105	0.120	0.120	0.120
Bottom Edge 0mm	0.000	0.301	0.000	0.000	0.000	0.182	0.135	0.143	0.278	0.143	0.143	0.436	0.301	0.483

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 1.382 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

14 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	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
Data Acquisition Electronics	Speag	DAE4	SN: 1710	2025/01/20	2026/01/19
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Signal Generator	Keysight	N5173B	MY62150163	2024/08/12	2025/08/11
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Network Analyzer	Agilent	E5071C	MY46103472	2024/09/11	2025/09/10
Thermometer	Elitech	RC-4HC	EF7216002985	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF720B004811	2024/10/31	2025/10/30
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: 1576	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

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

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

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

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

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 (%)
2025.05.10	Head	2450	21.6	1.77	38.27	1.80	39.20	-1.67	-2.37
2025.05.09	Head	5250	21.5	4.75	35.83	4.71	35.93	0.85	-0.28
2025.05.08	Head	5600	21.7	5.02	36.44	5.07	35.53	-0.99	2.56
2025.05.07	Head	5750	21.3	5.23	36.39	5.22	35.36	0.19	2.91

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).

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.05.10	Head	2450	100	5.350	53.50	52.60	1.71
2025.05.09	Head	5250	100	8.020	80.20	77.70	3.22
2025.05.08	Head	5600	100	8.330	83.30	81.30	2.46
2025.05.07	Head	5750	100	8.280	82.80	77.60	6.70

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

System Check: Head 2450 MHz

Date: 2025.05.10

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.767$ S/m; $\epsilon_r = 38.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.75, 7.75, 7.75); Calibrated: 2024.06.25;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW2450/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.25 W/kg

CW2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 42.62 V/m; Power Drift = 0.02 dB

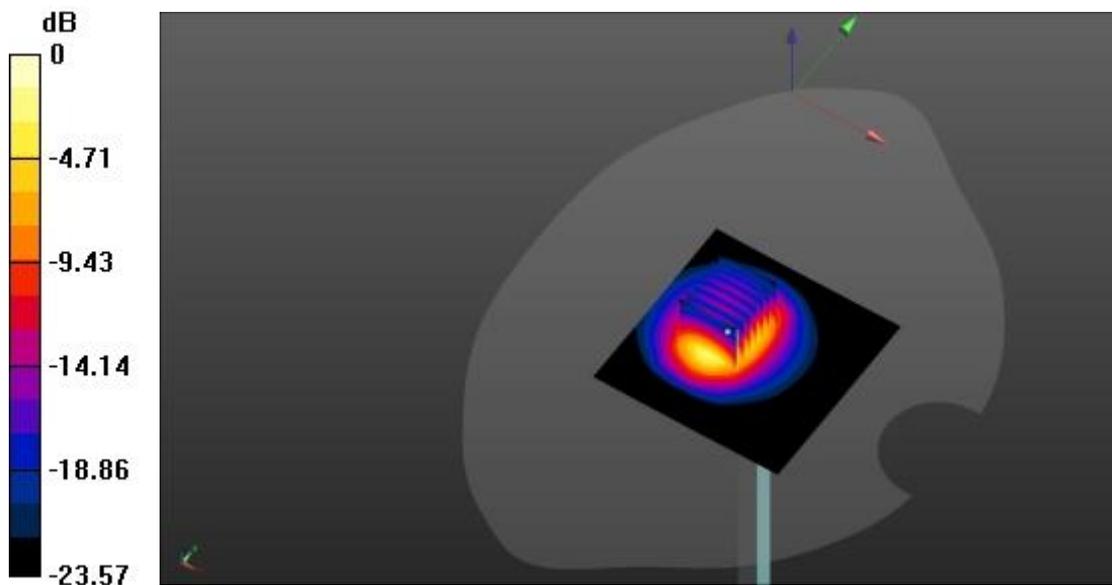
Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 5.35 W/kg; SAR(10 g) = 2.48 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 6.28 W/kg



0 dB = 6.28 W/kg

System Check: Head 5250 MHz

Date: 2025.05.09

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.748$ S/m; $\epsilon_r = 35.834$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.74, 5.74, 5.74); Calibrated: 2024.06.25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5250/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.44 W/kg

CW5250/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 30.68 V/m; Power Drift = -0.11 dB

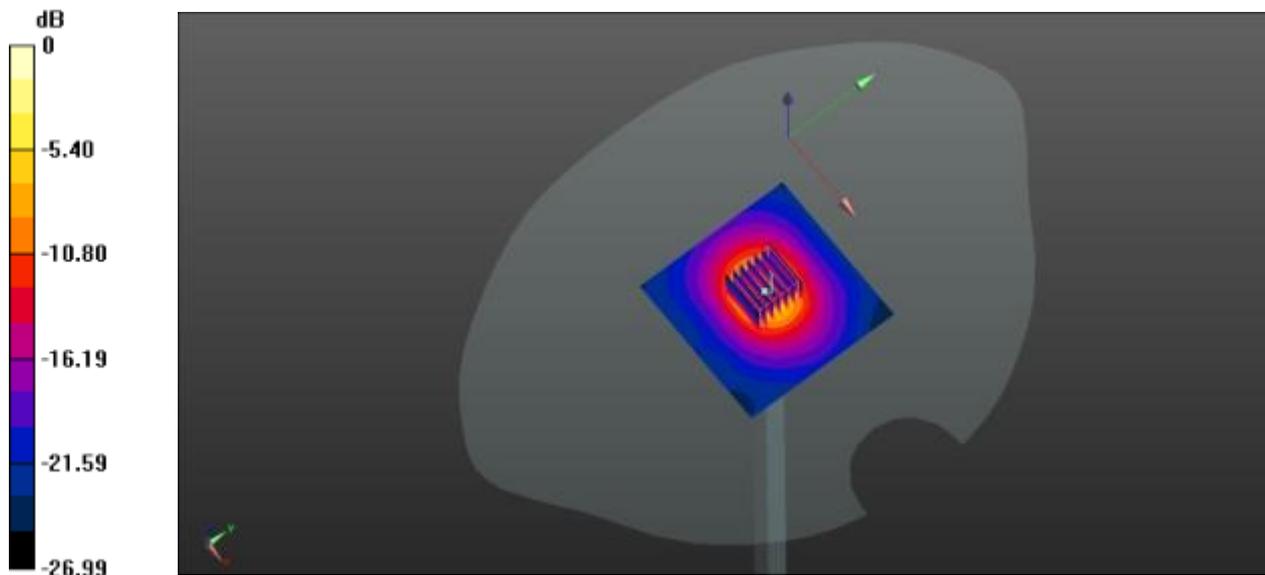
Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg

System Check: Head 5600 MHz

Date: 2025.05.08

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.024$ S/m; $\epsilon_r = 36.437$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5, 5, 5); Calibrated: 2024.06.25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5600/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.84 W/kg

CW5600/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 30.85 V/m; Power Drift = 0.05 dB

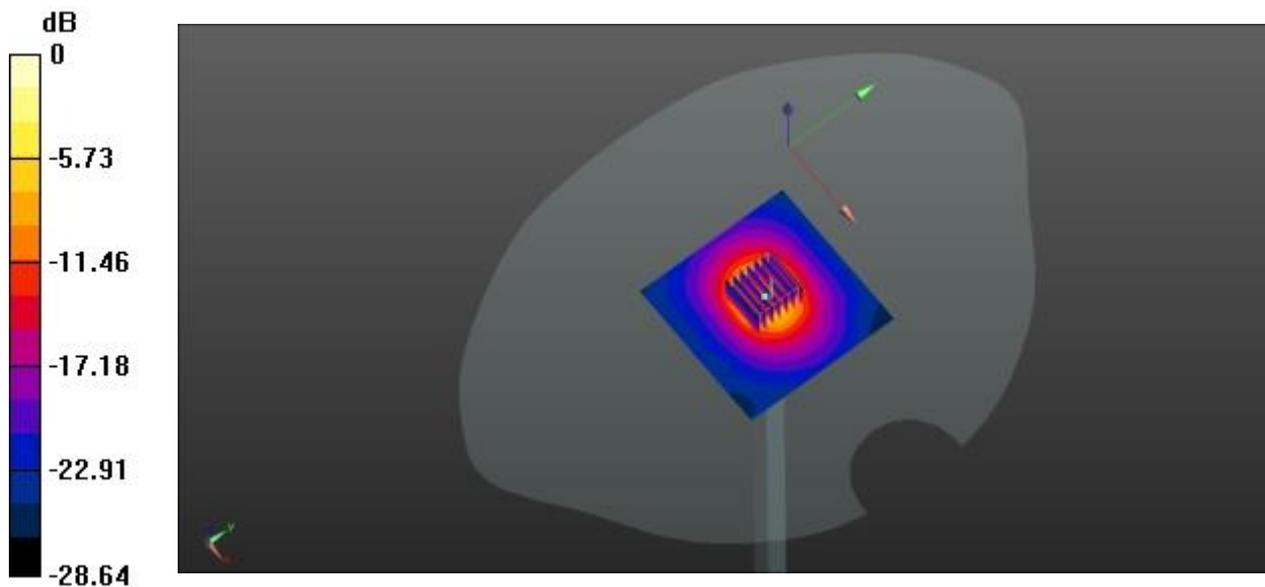
Peak SAR (extrapolated) = 35.8 W/kg

SAR(1 g) = 8.33 W/kg; SAR(10 g) = 2.42 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg

System Check: Head 5750 MHz

Date: 2025.05.07

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.229$ S/m; $\epsilon_r = 36.385$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.04, 5.04, 5.04); Calibrated: 2024.06.25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5750/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.59 W/kg

CW5750/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 38.75 V/m; Power Drift = -0.07 dB

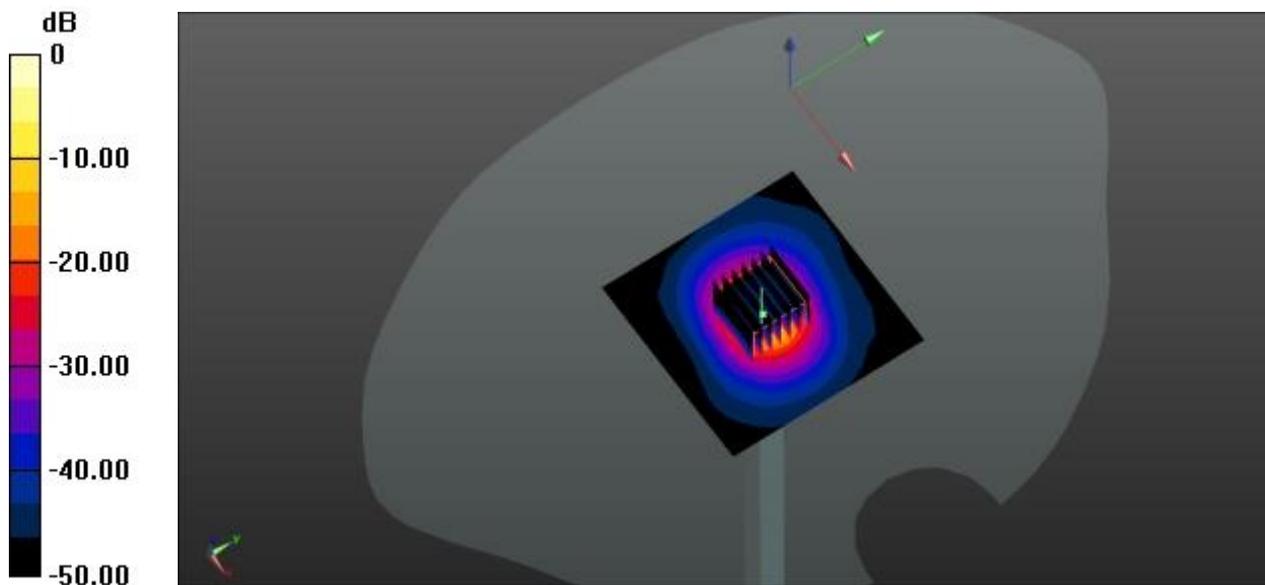
Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg

ANNEX C TEST DATA

Meas 1.Body Plane with Back Side 0mm on 0 Channel in Bluetooth mode with Antenna 1

Date: 2025.05.10

Communication System Band: BT; Frequency: 2402 MHz;Duty Cycle: 1:1.304

Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 1.719$ S/m; $\epsilon_r = 38.697$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3°C Liquid Temperature:21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.75, 7.75, 7.75); Calibrated: 2024.06.25;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.8610 V/m; Power Drift = 0.02 dB

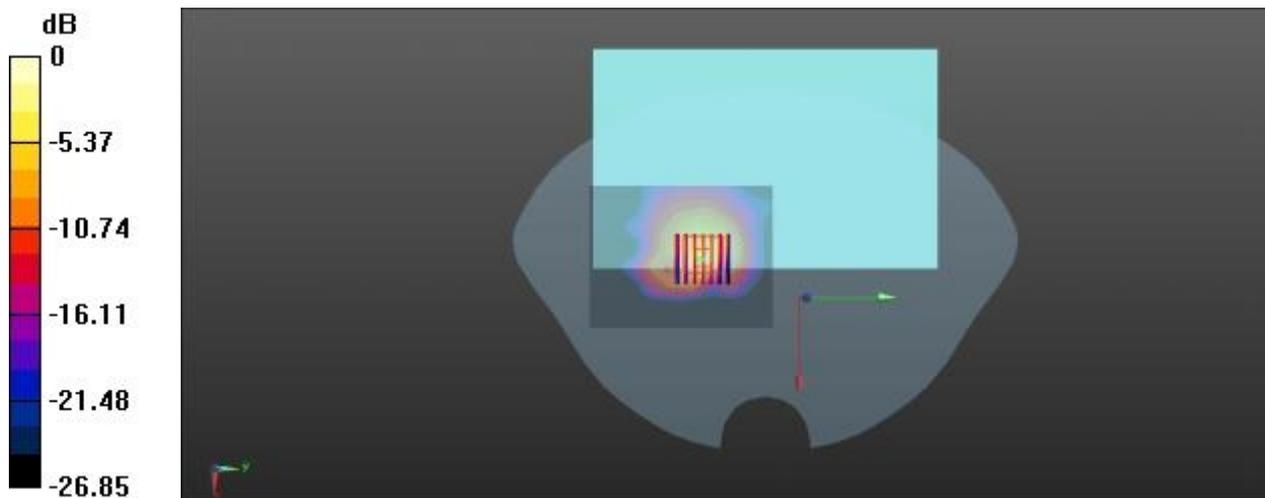
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.143 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 0.508 W/kg



0 dB = 0.508 W/kg

Meas 2.Body Plane with Back Side 0mm on 11 Channel in IEEE802.11b mode with Antenna 1

Date: 2025.05.10

Communication System Band: WIFI2.4; Frequency: 2462 MHz; Duty Cycle: 1:1.016

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.782$ S/m; $\epsilon_r = 38.196$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.75, 7.75, 7.75); Calibrated: 2024.06.25;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.983 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.4980 V/m; Power Drift = 0.01 dB

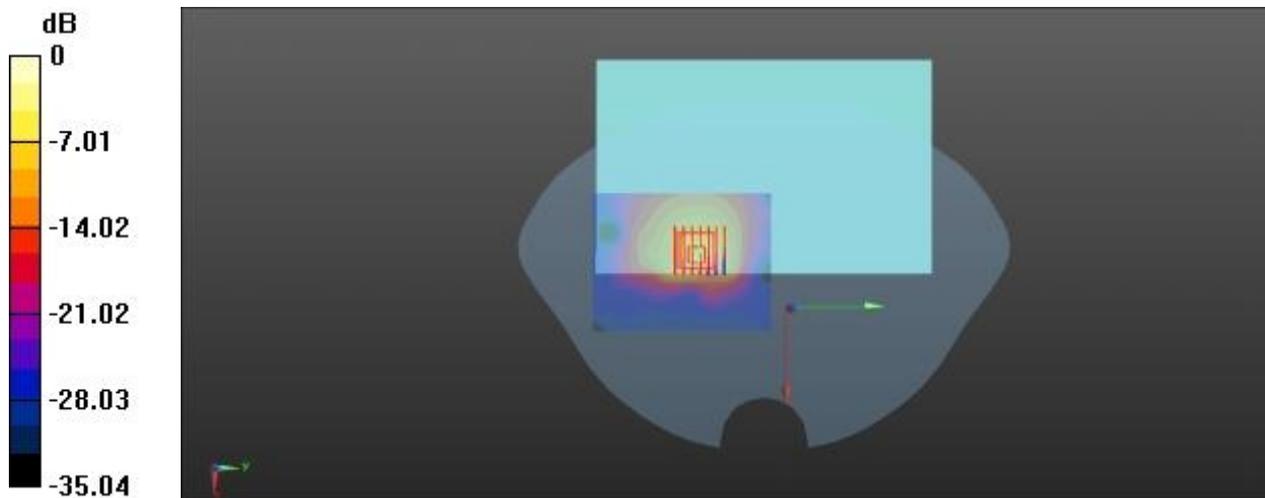
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.286 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

Meas 3.Body Plane with Back Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna MIMO

Date: 2025.05.09

Communication System Band: 5.3G; Frequency: 5290 MHz; Duty Cycle: 1:1.168

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 4.833$ S/m; $\epsilon_r = 35.193$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.50, 5.50, 5.50); Calibrated: 2024.06.25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (81x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.121 V/m; Power Drift = 0.02 dB

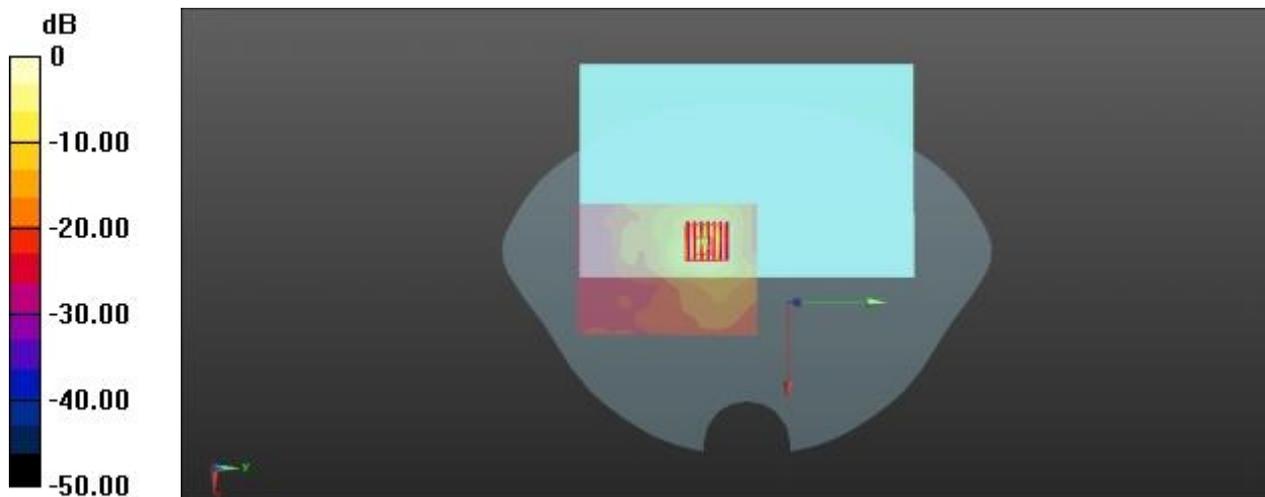
Peak SAR (extrapolated) = 4.08 W/kg

SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.162 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

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

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg

Meas 4.Body Plane with Back Side 0mm on 114 Channel in IEEE802.11ac160 mode with Antenna MIMO

Date: 2025.05.08

Communication System Band: 5.6G; Frequency: 5570 MHz; Duty Cycle: 1:1.286

Medium parameters used (interpolated): $f = 5570$ MHz; $\sigma = 4.984$ S/m; $\epsilon_r = 36.583$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5, 5, 5); Calibrated: 2024.06.25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch114/Area Scan (81x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Ch114/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.064 V/m; Power Drift = 0.08 dB

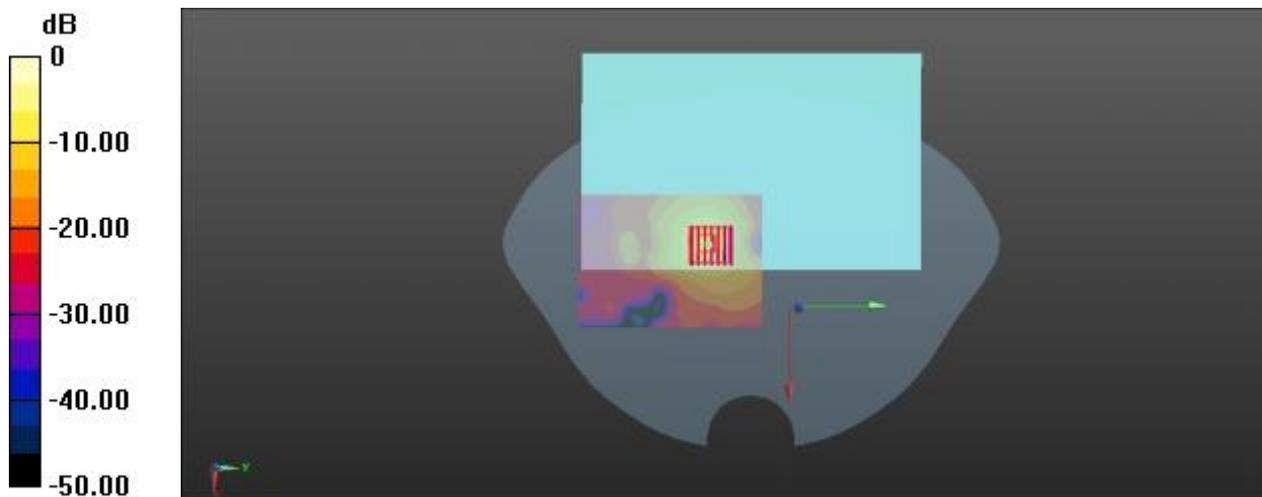
Peak SAR (extrapolated) = 4.17 W/kg

SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.143 W/kg

Smallest distance from peaks to all points 3 dB below = 5.3 mm

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

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg

Meas 5.Body Plane with Back Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna MIMO

Date: 2025.05.07

Communication System Band: 5.8G; Frequency: 5775 MHz; Duty Cycle: 1:1.168

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.260$ S/m; $\epsilon_r = 36.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.04, 5.04, 5.04); Calibrated: 2024.06.25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2025.01.20
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (81x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.62 W/kg

Ch155/Zoom Scan (7x7x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.1810 V/m; Power Drift = 0.06 dB

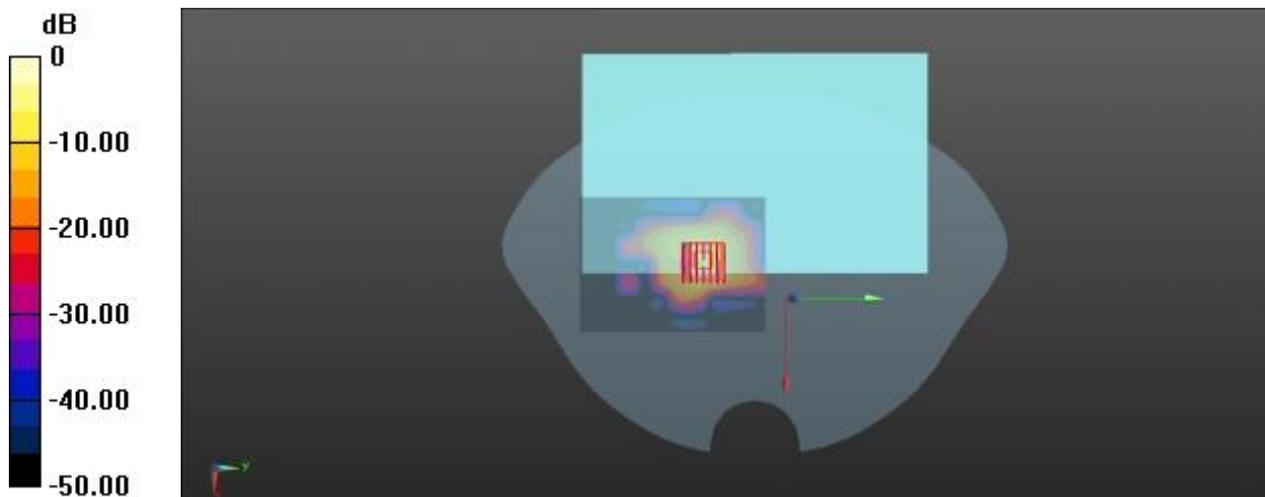
Peak SAR (extrapolated) = 5.60 W/kg

SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.175 W/kg

Smallest distance from peaks to all points 3 dB below = 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 2.19 W/kg



0 dB = 2.19 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2541436-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2541436-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "BL-SZ2541436-AC Calibration report.pdf".

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--