



FCC SAR Test Report

FCC ID: 2ABVH-AX211D2W

Project No. : 2505G007
Equipment : Intel WIFI 6E AX211
Brand Name : AAVA
Test Model : AX211D2W
Series Model : N/A
Date of Receipt : May 26, 2025
Date of Test : May 28, 2025 ~ Jul. 09, 2025
Issued Date : Jul. 15, 2025
Report Version : R00
Test Sample : Engineering Sample No.: DG2025052668, DG2025052666, DG2025052667
Standard(s) : Please refer to page 2.
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The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Standard(s)	: IEEE Std C95.1:2019 IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 kHz to 300 GHz. IEEE Std 1528TM-2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques. IEC TR 63170-2018 Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz. IEC/IEEE 63195-1-2022 Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) -Part 1: Measurement procedure. KDB447498 D04 Interim General RF Exposure Guidance v01 KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
Test method	: KDB616217 D04 SAR for laptop and tablets v01r02 KDB248227 D01 802.11 Wi-Fi SAR v02r02 KDB865664 D02 SAR Reporting v01r02 KDB690783 D01 SAR Listings on Grants v01r03

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCC SAR-1-2505G007	R00	Original Report.	Jul. 15, 2025	Valid

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Intel WIFI 6E AX211		
Brand Name	AAVA		
Test Model	AX211D2W		
Power Supply Rating	DC 3.3V from host equipment		
Host device information			
Equipment	Tablet		
Brand Name	AAVA		
Test Model	INARI-D-8-WIG-1		
Power Rating	12V --- 2A		
Battery Information	Model Name	AMME5350	
	Power Rating	7.74V, 3500mAh	
	Manufacturer	Shenzhen Guangwei Electronic Technology Co., Ltd.	
WIFI+BT Module	Intel WIFI 6E AX211 / AX211D2W		
Operation Frequency	Function	Band	Frequency (MHz)
	WiFi	2.4G	TX : 2412 - 2472 MHz
		5G UNII 1	TX : 5180 - 5250 MHz
		5G UNII 2a	TX : 5250 - 5350 MHz
		5G UNII 2c	TX : 5500 - 5700 MHz
		5G UNII 3	TX : 5745 - 5825 MHz
		6E UNII 5	TX : 5925 - 6425 MHz
		6E UNII 6	TX : 6425 - 6525 MHz
		6E UNII 7	TX : 6525 - 6875 MHz
		6E UNII 8	TX : 6875 - 7125 MHz
	Bluetooth	Basic Rate (BR)	TX : 2402 - 2480 MHz
		Enhance Data Rate	TX : 2402 - 2480 MHz
		Bluetooth Low Energy	TX : 2402 - 2480 MHz
Test Model	INARI-D-8-WIG-1		
Antenna Gain (dBi)	Frequency	Aux Ant (WiFi Chain 2+BT)	Main Ant (WiFi Chain 1)
	2.4GHz	1.1	0.5
	5GHz	3.0	2.9
	6GHz	2.4	1.7

Note:

- 1) The antenna gain is provided by the manufacturer.
- 2) The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
- 3) The test data, data evaluation, and equipment configuration contained in our test report were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

2 RF EMISSIONS MEASUREMENT

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is SAR Test room at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792.

BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

2.2 MEASUREMENT UNCERTAINTY

Note: Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE 1528 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

2.3 THE MAXIMUM SAR-1G VALUES

Mode	Highest Reported Body SAR-1g (W/kg)
WLAN 2.4G	1.204
WLAN 5.3G	1.214
WLAN 5.6G	0.853
WLAN 5.8G	1.071
WLAN 6.5G	1.010
Bluetooth	0.571

Frequency Band	Highest Averaged Power Density (mW/cm ²)
WLAN 6E	0.678

Note:

1) The device is in compliance with Specific Absorption Rate (SAR) for general population uncontrolled exposure limits according to the FCC rule §2.1093, the ANSI/IEEE C95.1, the NCRP Report Number 86 for uncontrolled environment, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528.

2) According to 47 CFR part 2.1093, the MPE limits specified in part 1.1310 apply to portable devices that transmit at frequencies above 6 GHz. The localized power density limit for general population exposure is 1.0 mW/cm² (equal to 10 W/m²) for frequency up to 100 GHz.

2.4 LABORATORY ENVIRONMENT

Temperature	Min. = 20°C, Max. = 24°C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2.5 MAIN TEST INSTRUMENTS

Item	Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Interval
1	Data Acquisition Electronics	Speag	DAE4	1390	Nov. 14, 2024	1 Year
2	Data Acquisition Electronics	Speag	DAE4	916	Dec. 04, 2024	1 Year
3	E-field Probe	Speag	EX3DV4	7350	Dec. 19, 2024	1 Year
4	E-field Probe	Speag	EX3DV4	7693	Nov. 20, 2024	1 Year
5	System Validation Dipole	Speag	D2450V2	919	Apr. 22, 2024	3 Years
6	System Validation Dipole	Speag	D5GHzV2	1160	Apr. 25, 2024	3 Years
7	System Validation Dipole	Speag	D6.5GHzV2	1052	Nov. 13, 2024	3 Years
8	ELI Phantom	Speag	ELI Phantom V5.0	1128	N/A	N/A
9	Twin Sam Phantom	Speag	SAM-Twim V8.0	2081	N/A	N/A
10	Power Amplifier	Mini-Circuits	ZVE-8G+	520701341	Jan. 12, 2025	1 Year
11	DC Source meter	Iteck	IT6154	0061041267682 01001	May. 29, 2025	1 Year
12	Vector Network Analyzer	Agilent	E5071C	MY46102965	Jan. 11, 2025	1 Year
13	Signal Generator	Keysight	N5173B	MY59101420	Jan. 11, 2025	1 Year
14	Smart Power Sensor	R&S	NRP-Z21	102209	Jan. 12, 2025	1 Year
15	3.5mm Economy Calibration Kit	Agilent	85052D	MY43252246	Nov. 04, 2024	1 Year
16	Dielectric Assessment Kit	Speag	DAK-3.5	1226	Jan. 20, 2025	3 Years
17	Directional Coupler	Talent Microwave	TC-05180-20S	210628013	Jan. 11, 2025	1 Year
18	Liquid Thermometer	Nscing Es	YZ6021S	/	Nov. 24, 2024	1 Year
19	System Validation Source	Speag	5G Verification Source 10GHz	1041	May 27, 2025	1 Years

Remark: "N/A" denotes no model name, serial No. or calibration specified.

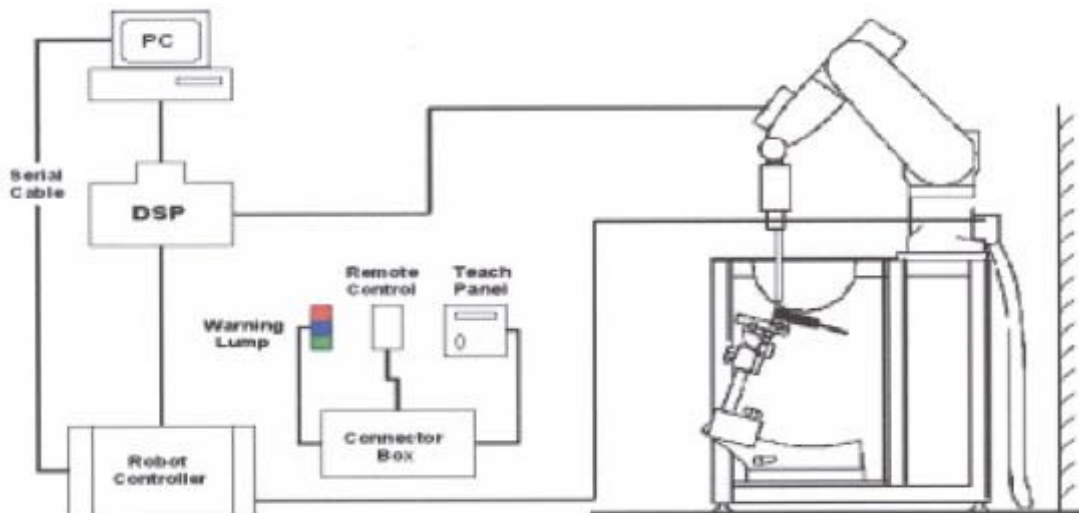
3 SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1 SAR MEASUREMENT SET-UP

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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

3.1.1 Test Setup Layout



3.2 DASY5 E-FIELD PROBE SYSTEM

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

3.2.1 Probe Specification

EX3DV4

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.0 mm



E-field Probe

3.2.2 E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermostat-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \frac{\Delta T}{\Delta t}$$

Where: Δt =Exposure time (30 seconds),

C =Heat capacity of tissue (brain or muscle),

ΔT =Temperature increase due to RF exposure.

Or

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

Where: σ = Simulated Tissue Conductivity,

ρ =Tissue density (kg/m³).

3.2.3 Other Test Equipment

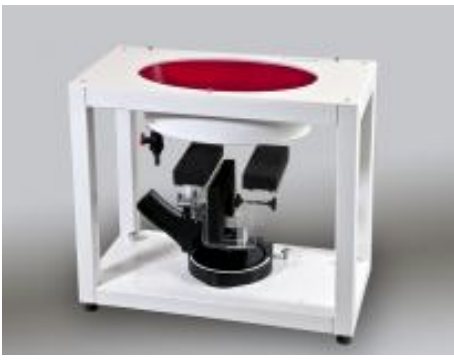
3.2.3.1. Device Holder for Transmitters

Construction: Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices (e.g., laptops, cameras, etc.) It is light weight and fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin SAM, ELI and SAM v6.0 Phantoms.

Material: POM, Acrylic glass, Foam

3.2.3.2 Phantom

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000mm; Width: 500mm Height: adjustable feet	
Available	Special	

Model	ELI Phantom	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.1 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Length: 600 mm; Width: 190mm Height: adjustable feet	
Available	Special	

3.2.4 Scanning Procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. $\pm 5\%$.

The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)

● Area Scan

The “area scan” measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension ($\leq 2\text{GHz}$), 12 mm in x- and y- dimension (2-4 GHz) and 10mm in x- and y- dimension (4-6GHz). If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation.

● Zoom Scan

A “zoom scan” measures the field in a volume around the 2D peak SAR value acquired in the previous “coarse” scan. This is a fine grid with maximum scan spatial resolution: $\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}} \leq 2\text{GHz} \leq 8\text{mm}$, 2-4GHz $\leq 5\text{ mm}$ and 4-6 GHz $\leq 4\text{mm}$; $\Delta z_{\text{zoom}} \leq 3\text{GHz} \leq 5\text{ mm}$, 3-4 GHz $\leq 4\text{mm}$ and 4-6GHz $\leq 2\text{mm}$ where the robot additionally moves the probe along the z-axis away from the bottom of the Phantom. DASY is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in Appendix B. Test results relevant for the specified standard (see chapter 1.4.) are shown in table form in chapter 7.2.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2 mm steps. This measurement shows the continuity of the liquid and can - depending in the field strength – also show the liquid depth.

The following table summarizes the area scan and zoom scan resolutions per FCC KDB 865664D01:

Frequency	Maximun Area Scan resolution ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximun Zoom Scan spatial resolution ($\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$)	Maximun Zoom Scan spatial resolution			Minimum zoom scan volume (x,y,z)
			Uniform Grid	Graded Grad		
			$\Delta z_{\text{Zoom}}(n)$	$\Delta z_{\text{Zoom}}(1)^*$	$\Delta z_{\text{Zoom}}(n>1)^*$	
$\leq 2\text{GHz}$	$\leq 15\text{mm}$	$\leq 8\text{mm}$	$\leq 5\text{mm}$	$\leq 4\text{mm}$	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	$\geq 30\text{mm}$
2-3GHz	$\leq 12\text{mm}$	$\leq 5\text{mm}$	$\leq 5\text{mm}$	$\leq 4\text{mm}$	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	$\geq 30\text{mm}$
3-4GHz	$\leq 12\text{mm}$	$\leq 5\text{mm}$	$\leq 4\text{mm}$	$\leq 3\text{mm}$	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	$\geq 28\text{mm}$
4-5GHz	$\leq 10\text{mm}$	$\leq 4\text{mm}$	$\leq 3\text{mm}$	$\leq 2.5\text{mm}$	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	$\geq 25\text{mm}$
5-6GHz	$\leq 10\text{mm}$	$\leq 4\text{mm}$	$\leq 2\text{mm}$	$\leq 2\text{mm}$	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	$\geq 22\text{mm}$

3.2.5 Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 5 x 5 x 7 points (with 8mm horizontal resolution) or 7 x 7 x 7 points (with 5mm horizontal resolution) or 8 x 8 x 7 points (with 4mm horizontal resolution). The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting "Graph Evaluated".
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computer mathematic, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computer mathematic, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY5 uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

3.2.6 DATA STORAGE AND EVALUATION

3.2.5.1 DATA STORAGE

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.2.7 DATA EVALUATION BY SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	Sensitivity	Normi, a_{i0} , a_{i1} , a_{i2}
	Conversion factor	ConvF _i
	Diode compression point	Dcp _i
Device parameters:	Frequency	f
	Crest factor	cf
Media parameters:	Conductivity	
	Density	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With	V_i = compensated signal of channel i	(i = x, y, z)
	U_i = input signal of channel i	(i = x, y, z)
	cf = crest factor of exciting field	(DASY parameter)
	dcp _i = diode compression point	(DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\text{E-field probes: } E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

$$\text{H-field probes: } H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$$

With V_i = compensated signal of channel i ($i = x, y, z$)

Norm_i = sensor sensitivity of channel i ($i = x, y, z$)
[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = (E_{\text{tot}})^2 \cdot \sigma / (\rho \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m
= conductivity in [mho/m] or [Siemens/m]
= equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{\text{pwe}} = E_{\text{tot}}^2 / 3770 \text{ or } P_{\text{pwe}} = H_{\text{tot}}^2 \cdot 37.7$$

With P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total field strength in V/m

H_{tot} = total magnetic field strength in A/m

4 TISSUE-EQUIVALENT LIQUID

4.1 TISSUE-EQUIVALENT LIQUID INGREDIENTS

The liquid is consisted of water, salt and Glycol, Sugar, Preventol and Cellulose. The liquid has previously been proven to be suited for worst-case. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values. The below table shows the detail solution.

It's satisfying the latest tissue dielectric parameters requirements proposed by the IEC 62209.

Composition of the Tissue Equivalent Matter

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
Head 2450	-	45.0	-	0.1	-	-	54.9	-
Head 5G	-	-	-	-	-	17.2	65.5	17.3

4.2 TISSUE-EQUIVALENT LIQUID PROPERTIES

Dielectric Performance of Tissue Simulating Liquid

Tissue Verification									
Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Targeted Conductivity (σ)	Targeted Permittivity (ϵ_r)	Deviation Conductivity (σ) (%)	Deviation Permittivity (ϵ_r) (%)	Date
Head	2450	22.3	1.860	40.671	1.80	39.2	3.33	3.75	Jun. 24, 2025
Head	5250	22.7	4.589	35.391	4.71	36.0	-2.57	-1.55	Jun. 25, 2025
Head	5600	22.7	5.051	34.576	5.07	35.5	-0.37	-2.60	Jun. 25, 2025
Head	5750	22.7	5.168	34.173	5.22	35.4	-1.00	-3.33	Jun. 25, 2025
Head	6500	22.3	5.830	33.100	6.07	34.5	-3.95	-4.06	Jun. 27, 2025

Note:

- 1)The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.
- 2)KDB 865664 was ensured to be applied for probe calibration frequencies greater than or equal to 50MHz of the EUT frequencies.
- 3)The above measured tissue parameters were used in the DASY software to perform interpolation via the DASY software to determine actual dielectric parameters at the test frequencies. The SAR test plots may slightly differ from the table above since the DASY rounds to three significant digits.

5 SYSTEM CHECK

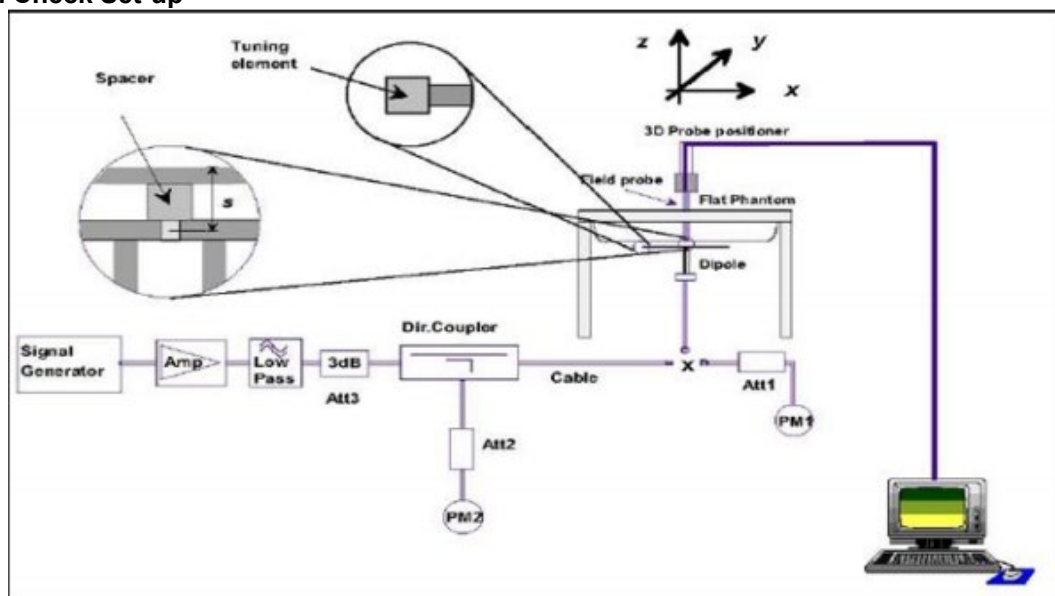
5.1 DESCRIPTION OF SYSTEM CHECK

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW (below 3GHz) or 100mW (3-6GHz), which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the 6.2.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.

System Check Set-up



5.2 DESCRIPTION OF SYSTEM CHECK

System Check in Tissue Simulating Liquid

The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE P1528 (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests.

System Check	Date	Frequency (MHz)	Targeted SAR 1g (W/kg)	Measured SAR 1g (W/kg)	normalized SAR 1g (W/kg)	Deviation (%)	Dipole S/N
Head	Jun. 24, 2025	2450	52.10	5.36	53.60	2.88	919
Head	Jun. 25, 2025	5250	78.00	8.17	81.70	4.74	1160
Head	Jun. 25, 2025	5600	80.60	7.90	79.00	-1.99	1160
Head	Jun. 25, 2025	5750	76.50	7.66	76.60	0.13	1160
Head	Jun. 27, 2025	6500	290.00	28.10	281.00	-3.10	1052

5.3 POWER DENSITY SYSTEM CHECK

System check provides a fast and reliable method to routinely verify that the measurement system is operational with no system component failures, including probe defects, drifts or deviation from target performance requirements. A system check also verifies the repeatability of the measurement system before compliance testing.

The measurement of a verification source is started from 5G probe installed and the phantom taught. The verification source is placed on the 5G phantom. Due to the internal distance from the horn to the outer surface of the verification source, the measurement distance set in the software should be offset by -4.45 mm; e.g, for measurement of the verification source at 10 mm, the measurement distance set in the software should be 5.55mm (10mm -4.45 mm).

The system check is a complete measurement using simple well-defined reference sources. According to the description of "Relative system check" in Section A.3 of Annex A to the IEC IEEE 63195-1 test standard, the uncertainty tolerance range of the system performance check can be converted to a percentage by referring to the uncertainty K=1 of the source calibration certificate. Here are some examples of A.5 and A.6 formulas! The uncertainty tolerance range of this calibration certificate is ±15.88%. According to the measured psPD 4cm² result, within the tolerance of the calibration certificate standard uncertainty, the system verification is successful. The instruments and procedures used for system inspection shall ensure that the system is ready to perform compliance tests.

Before starting DUT PD testing in any configuration, the acceptance criteria shall be met. The relative system check is successful if a) or b) is met:

- a) All absolute differences between the measured values, $psPD_{meas}$ and target values $psPD_{tgt}$, with $psPD$ values averaged over 1 cm² and/or 4 cm², shall be within the combined uncertainty u_c of the measurement system and the source antenna, according to Formula (A.4) if the uncertainty is expressed in decibel, or according to Formula (A.5) if the uncertainty is expressed in percent, along with Formula (A.6).

$$\Delta psPD_{tgt} = \left| 10 \times \lg \left(\frac{psPD_{meas}}{psPD_{tgt}} \right) \right| < \min(2 \times |u_c|, 2 \text{ dB}) \quad (\text{A.4})$$

or

$$\Delta psPD_{tgt} = \left| \frac{psPD_{meas} - psPD_{tgt}}{psPD_{tgt}} \right| < \min(2 \times |u_c|, 58 \%) \quad (\text{A.5})$$

$$u_c = \sqrt{u_{antenna_cal}^2 + u_{power}^2 + u_{meas}^2} \quad (\text{A.6})$$

where

- $psPD_{tgt}$ is the target value, derived from repeated measurement of source antenna, normalized to 0 dBm TRP;
- $u_{antenna_cal}$ is the standard uncertainty ($k = 1$) of the $psPD$ of the antenna model;
- u_{power} is the standard uncertainty ($k = 1$) of the measured TRP (see Clause A.2);
- u_{meas} is the standard uncertainty ($k = 1$) of the $psPD$ measurement (probe calibration, electronics, and positioning).

System Check	Date	Frequency (GHz)	Distance (mm)	Targeted 4cm ² (W/m ²)	Measured 4cm ² (W/m ²)	Deviation For 4cm ² (%)	Dipole S/N
Power Density	Jul. 04, 2025	10G ±10MHz	10	57.5	52.3	-9.04	1041

5.4 TEST POSITION

5.4.1 BODY TEST CONFIGURATION

The overall diagonal dimension of the display section of a tablet is 32.4cm>20cm, per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the Tablet touching the phantom. SAR evaluation for the front surface of tablet display screens is generally not necessary. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned adjacent the phantom and the edge containing the antenna positioned perpendicular to the phantom.

SAR test reduction and exclusion guidance

(1) The SAR exclusion threshold for distances<50mm is defined by the following equation:

$$\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

(2) The SAR exclusion threshold for distances>50mm is defined by the following equation, as illustrated in KDB 447498 D01 Appendix B:

a) at 100 MHz to 1500 MHz

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f_{\text{(MHz)}}/150)] \text{ mW}$$

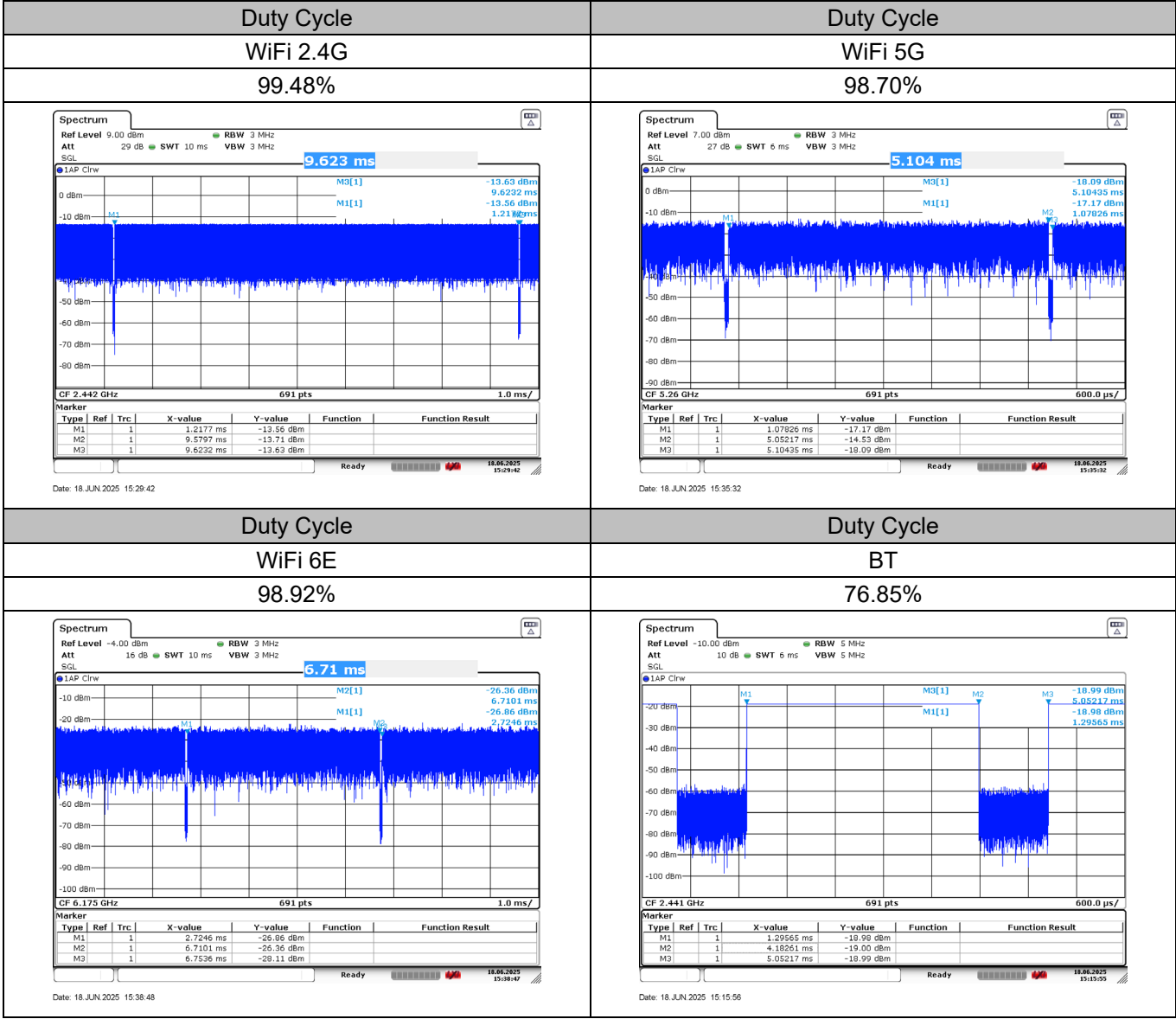
b) at >1500MHz and ≤6GHz

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$$

5.5 TEST CONFIGURATION

5.5.1 WIFI Test Configuration

For WLAN / BT SAR testing, WLAN / BT engineering testing software installed on the DUT can provide continuous transmitting RF signal.



5.5.2 WLAN 2.4G SAR Test Requirements

802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) 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.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

5.5.3 WLAN 5G SAR TEST REQUIREMENTS

U-NII-1 and U-NII-2A Band

For devices that operate in both U-NII-1 and U-NII-2A bands, 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, both bands are tested independently for SAR. 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, both bands are tested independently for SAR.

U-NII-2C, U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, they must be considered for SAR testing.

To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels.¹¹ When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

5.5.4 OFDM TRANSMISSION MODE AND SAR TEST CHANNEL SELECTION

For the 2.4GHz and 5GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations (for example 802.11a, 802.11n and 802.11ac, or 802.11g and 802.11n, with the same channel bandwidth, modulation, and data rate, etc.), the lower order 802.11 mode (i.e. 802.11a then 802.11n and 802.11ac, or 802.11g then 802.11n) is used for SAR measurement. When the maximum output power is the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

5.5.5 INITIAL TEST CONFIGURATION PROCEDURE

For OFDM, in both 2.4G and 5GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output powers is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required.

Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurement.

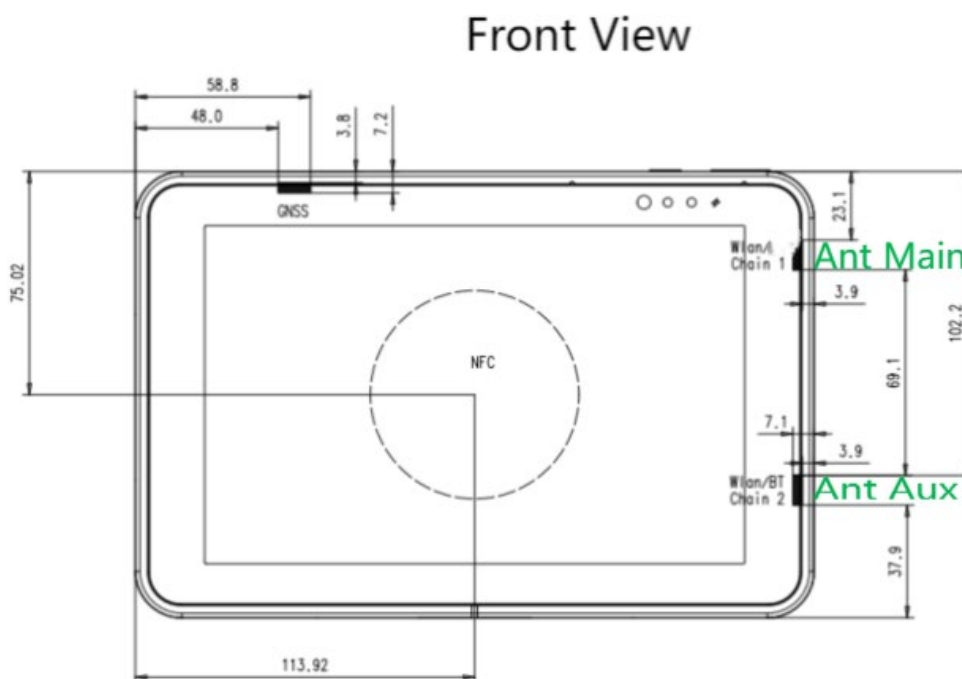
6 OPERATIONAL CONDITIONS DURING TEST

6.1 GENERAL DESCRIPTION OF TEST PROCEDURES

Connection to the EUT is established via air interface with base station An, and the EUT is Set to maximum output power by base station. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30dB.

6.2 TEST POSITION ANTENNA LOCATION

The location of the antennas inside the EUT is shown as below picture:



Unit: mm

The SAR measurement positions of each antenna are as below:

Antenna	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
Aux Ant (WiFi Chain 2+BT)	No	Yes	No	Yes	No	Yes
Main Ant (WiFi Chain 1)	No	Yes	No	Yes	Yes	No

6.2.1 Proximity sensor coverage, distance and angle

6.2.1.1 Procedures for determining proximity sensor triggering distances

The device was tested by the test lab to determine the proximity sensor triggering distances for the front side, back side, bottom side and left side of the device. To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering minus 1 mm, must be used as the test separation distance for SAR testing.

The proximity sensor triggering distance measurement method is as below:



Picture: Proximity sensor triggering distance assessment Top side and Left side

Picture: Proximity sensor triggering distance assessment Front side and Back side

Table 1: Summary of Trigger Distances

Band	Trigger distance –Rear Side		Trigger distance –Right Side		Trigger distance –Top Side	
	Moving toward phantom	Moving away phantom	Moving toward phantom	Moving away phantom	Moving toward phantom	Moving away phantom
WiFi 2.4G	15mm	15mm	9mm	9mm	7mm	7mm
WiFi 5G	15mm	15mm	9mm	9mm	7mm	7mm
WiFi 6E	15mm	15mm	9mm	9mm	7mm	7mm

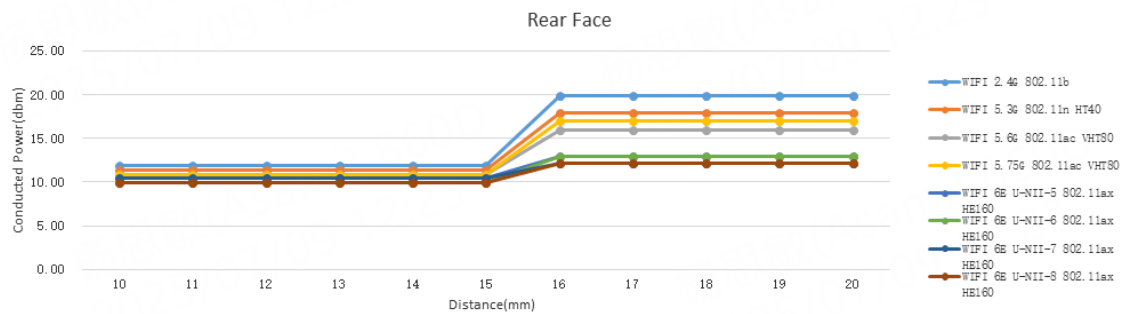
The proximity sensor is not triggered, when approaching from other sides. Therefore, the proximity sensor coverage is not evaluated on these orientations.

6.2.1.2 Procedures for determining antenna and proximity sensor coverage

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

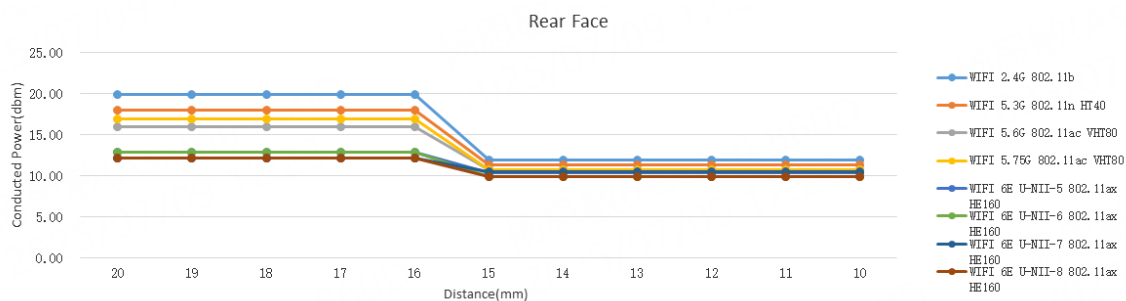
1) Rear Face(moving away from the phantom) Main Ant

mode		distance(mm)										
		Rear Face										
		Sensor on						Sensor off				
		10	11	12	13	14	15	16	17	18	19	20
WIFI 2.4G	802.11b	11.95	11.95	11.95	11.95	11.95	11.95	19.88	19.88	19.88	19.88	19.88
WIFI 5.3G	802.11n HT40	11.37	11.37	11.37	11.37	11.37	11.37	17.98	17.98	17.98	17.98	17.98
WIFI 5.6G	802.11ac VHT80	10.82	10.82	10.82	10.82	10.82	10.82	15.96	15.96	15.96	15.96	15.96
WIFI 5.75G	802.11ac VHT80	10.80	10.80	10.80	10.80	10.80	10.80	16.94	16.94	16.94	16.94	16.94
WIFI 6E U-NII-5	802.11ax HE160	10.42	10.42	10.42	10.42	10.42	10.42	12.89	12.89	12.89	12.89	12.89
WIFI 6E U-NII-6	802.11ax HE160	9.96	9.96	9.96	9.96	9.96	9.96	12.89	12.89	12.89	12.89	12.89
WIFI 6E U-NII-7	802.11ax HE160	10.48	10.48	10.48	10.48	10.48	10.48	12.17	12.17	12.17	12.17	12.17
WIFI 6E U-NII-8	802.11ax HE160	9.90	9.90	9.90	9.90	9.90	9.90	12.18	12.18	12.18	12.18	12.18



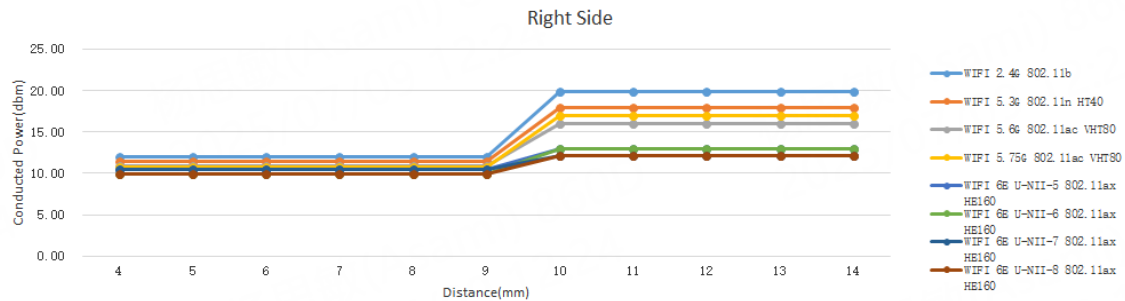
2) Rear Face(moving toward the phantom)_ Main Ant

mode		distance(mm)										
		Rear Face										
		Sensor off					Sensor on					
		20	19	18	17	16	15	14	13	12	11	10
WIFI 2.4G	802.11b	19.88	19.88	19.88	19.88	19.88	11.95	11.95	11.95	11.95	11.95	11.95
WIFI 5.3G	802.11n HT40	17.98	17.98	17.98	17.98	17.98	11.37	11.37	11.37	11.37	11.37	11.37
WIFI 5.6G	802.11ac VHT80	15.96	15.96	15.96	15.96	15.96	10.82	10.82	10.82	10.82	10.82	10.82
WIFI 5.75G	802.11ac VHT80	16.94	16.94	16.94	16.94	16.94	10.80	10.80	10.80	10.80	10.80	10.80
WIFI 6E U-NII-5	802.11ax HE160	12.89	12.89	12.89	12.89	12.89	10.42	10.42	10.42	10.42	10.42	10.42
WIFI 6E U-NII-6	802.11ax HE160	12.89	12.89	12.89	12.89	12.89	9.96	9.96	9.96	9.96	9.96	9.96
WIFI 6E U-NII-7	802.11ax HE160	12.17	12.17	12.17	12.17	12.17	10.48	10.48	10.48	10.48	10.48	10.48
WIFI 6E U-NII-8	802.11ax HE160	12.18	12.18	12.18	12.18	12.18	9.90	9.90	9.90	9.90	9.90	9.90



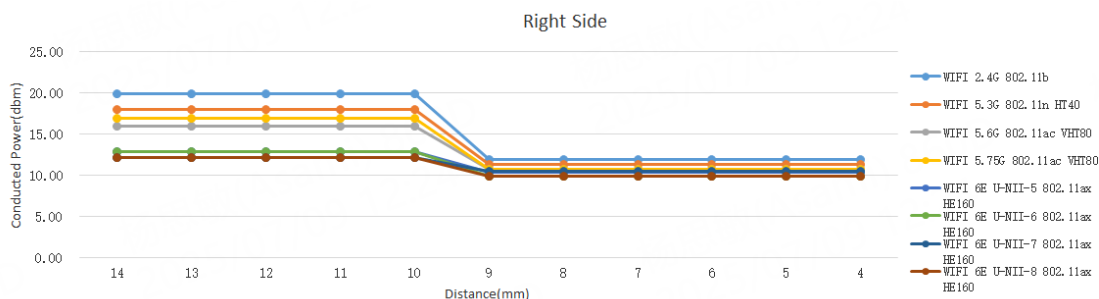
3) Right Side(moving away from the phantom)_ Main Ant

mode		distance(mm)										
		Right Side										
		Sensor on						Sensor off				
		4	5	6	7	8	9	10	11	12	13	14
WIFI 2.4G	802.11b	11.95	11.95	11.95	11.95	11.95	11.95	19.88	19.88	19.88	19.88	19.88
WIFI 5.3G	802.11n HT40	11.37	11.37	11.37	11.37	11.37	11.37	17.98	17.98	17.98	17.98	17.98
WIFI 5.6G	802.11ac VHT80	10.82	10.82	10.82	10.82	10.82	10.82	15.96	15.96	15.96	15.96	15.96
WIFI 5.75G	802.11ac VHT80	10.80	10.80	10.80	10.80	10.80	10.80	16.94	16.94	16.94	16.94	16.94
WIFI 6E U-NII-5	802.11ax HE160	10.42	10.42	10.42	10.42	10.42	10.42	12.89	12.89	12.89	12.89	12.89
WIFI 6E U-NII-6	802.11ax HE160	9.96	9.96	9.96	9.96	9.96	9.96	12.89	12.89	12.89	12.89	12.89
WIFI 6E U-NII-7	802.11ax HE160	10.48	10.48	10.48	10.48	10.48	10.48	12.17	12.17	12.17	12.17	12.17
WIFI 6E U-NII-8	802.11ax HE160	9.90	9.90	9.90	9.90	9.90	9.90	12.18	12.18	12.18	12.18	12.18



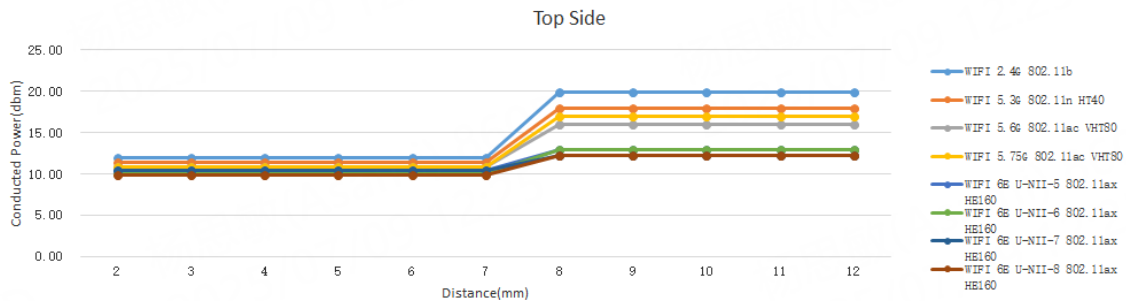
4) Right Side(moving toward the phantom)_ Main Ant

mode		distance(mm)										
		Right Side										
		Sensor off					Sensor on					
		14	13	12	11	10	9	8	7	6	5	4
WIFI 2.4G	802.11b	19.88	19.88	19.88	19.88	19.88	11.95	11.95	11.95	11.95	11.95	11.95
WIFI 5.3G	802.11n HT40	17.98	17.98	17.98	17.98	17.98	11.37	11.37	11.37	11.37	11.37	11.37
WIFI 5.6G	802.11ac VHT80	15.96	15.96	15.96	15.96	15.96	10.82	10.82	10.82	10.82	10.82	10.82
WIFI 5.75G	802.11ac VHT80	16.94	16.94	16.94	16.94	16.94	10.80	10.80	10.80	10.80	10.80	10.80
WIFI 6E U-NII-5	802.11ax HE160	12.89	12.89	12.89	12.89	12.89	10.42	10.42	10.42	10.42	10.42	10.42
WIFI 6E U-NII-6	802.11ax HE160	12.89	12.89	12.89	12.89	12.89	9.96	9.96	9.96	9.96	9.96	9.96
WIFI 6E U-NII-7	802.11ax HE160	12.17	12.17	12.17	12.17	12.17	10.48	10.48	10.48	10.48	10.48	10.48
WIFI 6E U-NII-8	802.11ax HE160	12.18	12.18	12.18	12.18	12.18	9.90	9.90	9.90	9.90	9.90	9.90



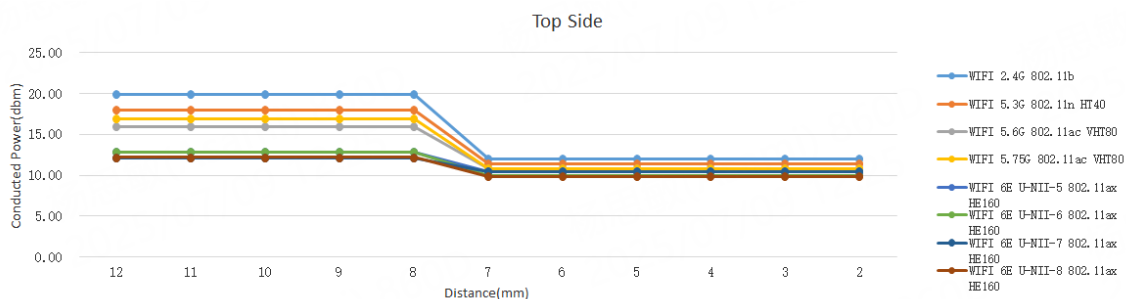
5) Top Side(moving away from the phantom)_ Main Ant

mode		distance(mm)										
		Top Side										
		Sensor on						Sensor off				
		2	3	4	5	6	7	8	9	10	11	12
WIFI 2.4G	802.11b	11.95	11.95	11.95	11.95	11.95	11.95	19.88	19.88	19.88	19.88	19.88
WIFI 5.3G	802.11n HT40	11.37	11.37	11.37	11.37	11.37	11.37	17.98	17.98	17.98	17.98	17.98
WIFI 5.6G	802.11ac VHT80	10.82	10.82	10.82	10.82	10.82	10.82	15.96	15.96	15.96	15.96	15.96
WIFI 5.75G	802.11ac VHT80	10.80	10.80	10.80	10.80	10.80	10.80	16.94	16.94	16.94	16.94	16.94
WIFI 6E U-NII-5	802.11ax HE160	10.42	10.42	10.42	10.42	10.42	10.42	12.89	12.89	12.89	12.89	12.89
WIFI 6E U-NII-6	802.11ax HE160	9.96	9.96	9.96	9.96	9.96	9.96	12.89	12.89	12.89	12.89	12.89
WIFI 6E U-NII-7	802.11ax HE160	10.48	10.48	10.48	10.48	10.48	10.48	12.17	12.17	12.17	12.17	12.17
WIFI 6E U-NII-8	802.11ax HE160	9.90	9.90	9.90	9.90	9.90	9.90	12.18	12.18	12.18	12.18	12.18



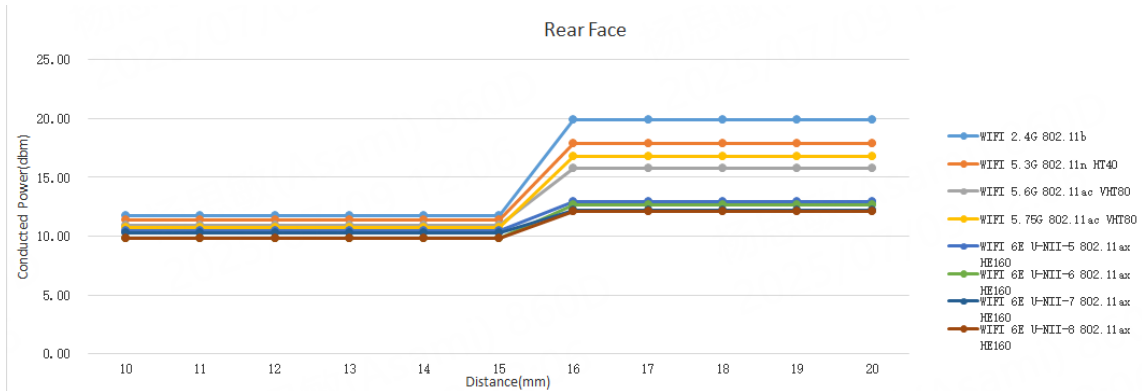
6) Top Side(moving toward the phantom)_ Main Ant

mode		distance(mm)										
		Top Side										
		Sensor off					Sensor on					
		12	11	10	9	8	7	6	5	4	3	2
WIFI 2.4G	802.11b	19.88	19.88	19.88	19.88	19.88	11.95	11.95	11.95	11.95	11.95	11.95
WIFI 5.3G	802.11n HT40	17.98	17.98	17.98	17.98	17.98	11.37	11.37	11.37	11.37	11.37	11.37
WIFI 5.6G	802.11ac VHT80	15.96	15.96	15.96	15.96	15.96	10.82	10.82	10.82	10.82	10.82	10.82
WIFI 5.75G	802.11ac VHT80	16.94	16.94	16.94	16.94	16.94	10.80	10.80	10.80	10.80	10.80	10.80
WIFI 6E U-NII-5	802.11ax HE160	12.89	12.89	12.89	12.89	12.89	10.42	10.42	10.42	10.42	10.42	10.42
WIFI 6E U-NII-6	802.11ax HE160	12.89	12.89	12.89	12.89	12.89	9.96	9.96	9.96	9.96	9.96	9.96
WIFI 6E U-NII-7	802.11ax HE160	12.17	12.17	12.17	12.17	12.17	10.48	10.48	10.48	10.48	10.48	10.48
WIFI 6E U-NII-8	802.11ax HE160	12.18	12.18	12.18	12.18	12.18	9.90	9.90	9.90	9.90	9.90	9.90



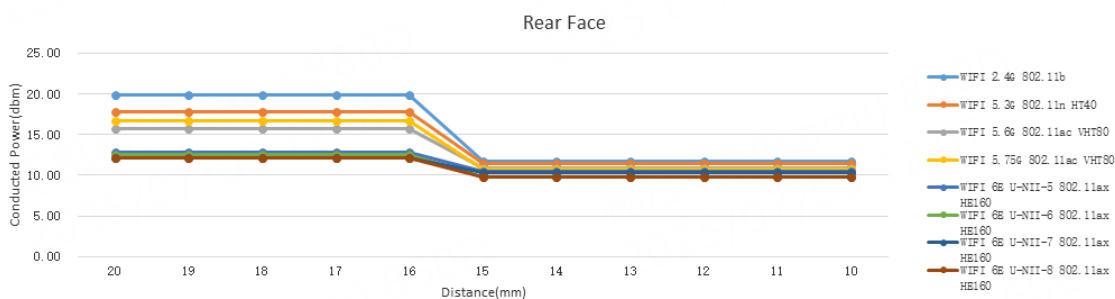
7) Rear Face(moving away from the phantom)_ Aux Ant

mode		distance(mm)										
		Rear Face										
		Sensor on						Sensor off				
		10	11	12	13	14	15	16	17	18	19	20
WIFI 2.4G	802.11b	11.77	11.77	11.77	11.77	11.77	11.77	19.90	19.90	19.90	19.90	19.90
WIFI 5.3G	802.11n HT40	11.38	11.38	11.38	11.38	11.38	11.38	17.85	17.85	17.85	17.85	17.85
WIFI 5.6G	802.11ac VHT80	10.92	10.92	10.92	10.92	10.92	10.92	15.76	15.76	15.76	15.76	15.76
WIFI 5.75G	802.11ac VHT80	10.76	10.76	10.76	10.76	10.76	10.76	16.74	16.74	16.74	16.74	16.74
WIFI 6E U-NII-5	802.11ax HE160	10.44	10.44	10.44	10.44	10.44	10.44	12.88	12.88	12.88	12.88	12.88
WIFI 6E U-NII-6	802.11ax HE160	9.78	9.78	9.78	9.78	9.78	9.78	12.61	12.61	12.61	12.61	12.61
WIFI 6E U-NII-7	802.11ax HE160	10.31	10.31	10.31	10.31	10.31	10.31	12.15	12.15	12.15	12.15	12.15
WIFI 6E U-NII-8	802.11ax HE160	9.80	9.80	9.80	9.80	9.80	9.80	12.14	12.14	12.14	12.14	12.14



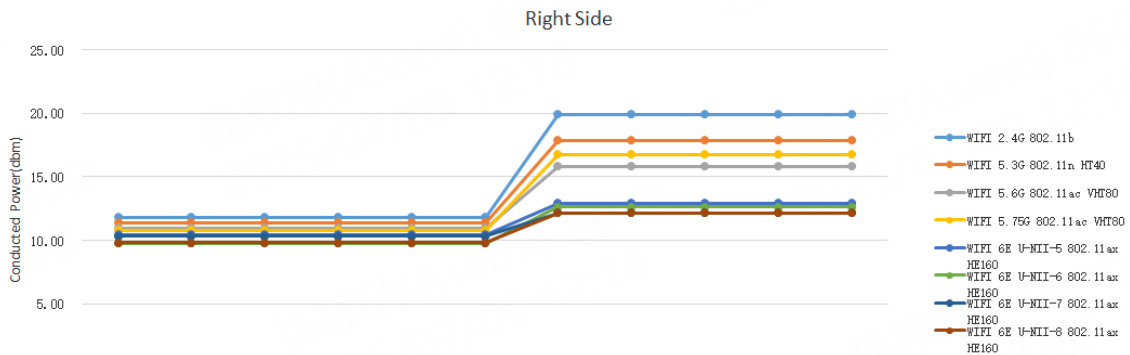
8) Rear Face(moving toward the phantom)_ Aux Ant

mode		distance(mm)										
		Rear Face										
		Sensor off					Sensor on					
		20	19	18	17	16	15	14	13	12	11	10
WIFI 2.4G	802.11b	19.90	19.90	19.90	19.90	19.90	11.77	11.77	11.77	11.77	11.77	11.77
WIFI 5.3G	802.11n HT40	17.85	17.85	17.85	17.85	17.85	11.38	11.38	11.38	11.38	11.38	11.38
WIFI 5.6G	802.11ac VHT80	15.76	15.76	15.76	15.76	15.76	10.92	10.92	10.92	10.92	10.92	10.92
WIFI 5.75G	802.11ac VHT80	16.74	16.74	16.74	16.74	16.74	10.76	10.76	10.76	10.76	10.76	10.76
WIFI 6E U-NII-5	802.11ax HE160	12.88	12.88	12.88	12.88	12.88	10.44	10.44	10.44	10.44	10.44	10.44
WIFI 6E U-NII-6	802.11ax HE160	12.61	12.61	12.61	12.61	12.61	9.78	9.78	9.78	9.78	9.78	9.78
WIFI 6E U-NII-7	802.11ax HE160	12.15	12.15	12.15	12.15	12.15	10.31	10.31	10.31	10.31	10.31	10.31
WIFI 6E U-NII-8	802.11ax HE160	12.14	12.14	12.14	12.14	12.14	9.80	9.80	9.80	9.80	9.80	9.80



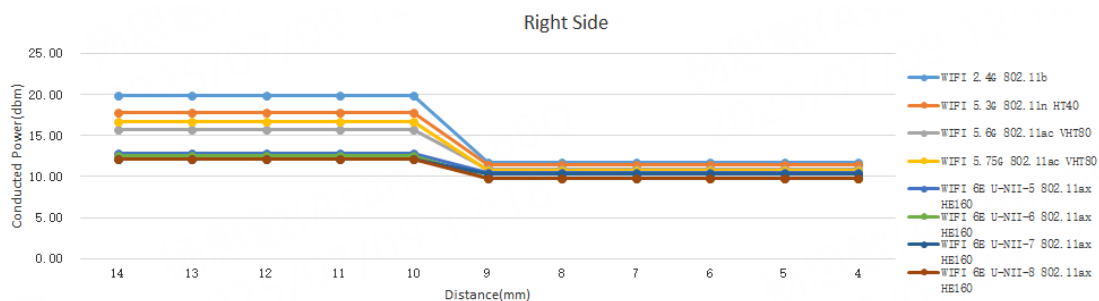
9) Right Side(moving away from the phantom) _ Aux Ant

mode		distance(mm)										
		Right Side										
		Sensor on						Sensor off				
		4	5	6	7	8	9	10	11	12	13	14
WIFI 2.4G	802.11b	11.77	11.77	11.77	11.77	11.77	11.77	19.90	19.90	19.90	19.90	19.90
WIFI 5.3G	802.11n HT40	11.38	11.38	11.38	11.38	11.38	11.38	17.85	17.85	17.85	17.85	17.85
WIFI 5.6G	802.11ac VHT80	10.92	10.92	10.92	10.92	10.92	10.92	15.76	15.76	15.76	15.76	15.76
WIFI 5.75G	802.11ac VHT80	10.76	10.76	10.76	10.76	10.76	10.76	16.74	16.74	16.74	16.74	16.74
WIFI 6E U-NII-5	802.11ax HE160	10.44	10.44	10.44	10.44	10.44	10.44	12.88	12.88	12.88	12.88	12.88
WIFI 6E U-NII-6	802.11ax HE160	9.78	9.78	9.78	9.78	9.78	9.78	12.61	12.61	12.61	12.61	12.61
WIFI 6E U-NII-7	802.11ax HE160	10.31	10.31	10.31	10.31	10.31	10.31	12.15	12.15	12.15	12.15	12.15
WIFI 6E U-NII-8	802.11ax HE160	9.80	9.80	9.80	9.80	9.80	9.80	12.14	12.14	12.14	12.14	12.14



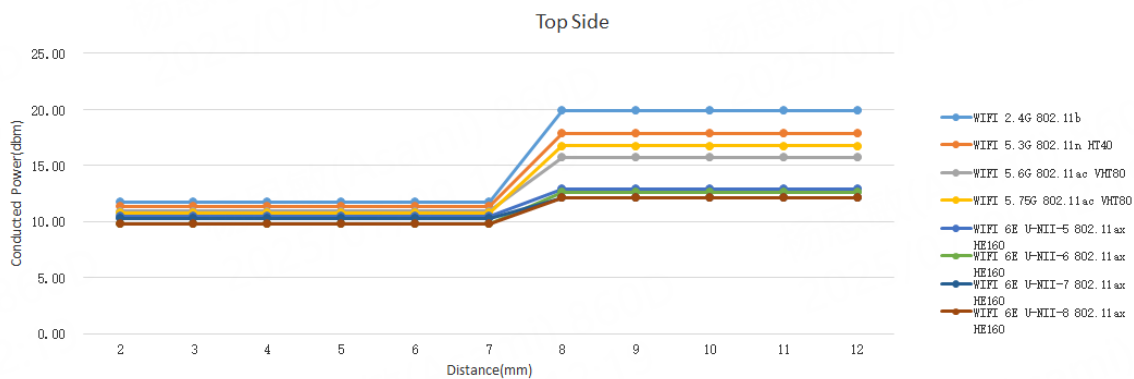
10) Right Side(moving toward the phantom)_ Aux Ant

mode		distance(mm)										
		Right Side										
		Sensor off					Sensor on					
		14	13	12	11	10	9	8	7	6	5	4
WIFI 2.4G	802.11b	19.90	19.90	19.90	19.90	19.90	11.77	11.77	11.77	11.77	11.77	11.77
WIFI 5.3G	802.11n HT40	17.85	17.85	17.85	17.85	17.85	11.38	11.38	11.38	11.38	11.38	11.38
WIFI 5.6G	802.11ac VHT80	15.76	15.76	15.76	15.76	15.76	10.92	10.92	10.92	10.92	10.92	10.92
WIFI 5.75G	802.11ac VHT80	16.74	16.74	16.74	16.74	16.74	10.76	10.76	10.76	10.76	10.76	10.76
WIFI 6E U-NII-5	802.11ax HE160	12.88	12.88	12.88	12.88	12.88	10.44	10.44	10.44	10.44	10.44	10.44
WIFI 6E U-NII-6	802.11ax HE160	12.61	12.61	12.61	12.61	12.61	9.78	9.78	9.78	9.78	9.78	9.78
WIFI 6E U-NII-7	802.11ax HE160	12.15	12.15	12.15	12.15	12.15	10.31	10.31	10.31	10.31	10.31	10.31
WIFI 6E U-NII-8	802.11ax HE160	12.14	12.14	12.14	12.14	12.14	9.80	9.80	9.80	9.80	9.80	9.80



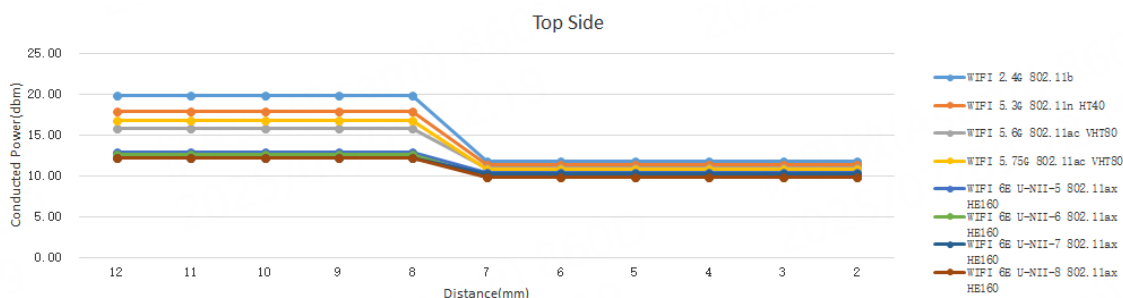
11) Top Side(moving away from the phantom)_ Aux Ant

mode		distance(mm)										
		Top Side										
		Sensor on						Sensor off				
		2	3	4	5	6	7	8	9	10	11	12
WIFI 2.4G	802.11b	11.77	11.77	11.77	11.77	11.77	11.77	19.90	19.90	19.90	19.90	19.90
WIFI 5.3G	802.11n HT40	11.38	11.38	11.38	11.38	11.38	11.38	17.85	17.85	17.85	17.85	17.85
WIFI 5.6G	802.11ac VHT80	10.92	10.92	10.92	10.92	10.92	10.92	15.76	15.76	15.76	15.76	15.76
WIFI 5.75G	802.11ac VHT80	10.76	10.76	10.76	10.76	10.76	10.76	16.74	16.74	16.74	16.74	16.74
WIFI 6E U-NII-5	802.11ax HE160	10.44	10.44	10.44	10.44	10.44	10.44	12.88	12.88	12.88	12.88	12.88
WIFI 6E U-NII-6	802.11ax HE160	9.78	9.78	9.78	9.78	9.78	9.78	12.61	12.61	12.61	12.61	12.61
WIFI 6E U-NII-7	802.11ax HE160	10.31	10.31	10.31	10.31	10.31	10.31	12.15	12.15	12.15	12.15	12.15
WIFI 6E U-NII-8	802.11ax HE160	9.80	9.80	9.80	9.80	9.80	9.80	12.14	12.14	12.14	12.14	12.14



12) Top Side(moving toward the phantom) _ Aux Ant

mode		distance(mm)										
		Top Side										
		Sensor off					Sensor on					
		12	11	10	9	8	7	6	5	4	3	2
WIFI 2.4G	802.11b	19.90	19.90	19.90	19.90	19.90	11.77	11.77	11.77	11.77	11.77	11.77
WIFI 5.3G	802.11n HT40	17.85	17.85	17.85	17.85	17.85	11.38	11.38	11.38	11.38	11.38	11.38
WIFI 5.6G	802.11ac VHT80	15.76	15.76	15.76	15.76	15.76	10.92	10.92	10.92	10.92	10.92	10.92
WIFI 5.75G	802.11ac VHT80	16.74	16.74	16.74	16.74	16.74	10.76	10.76	10.76	10.76	10.76	10.76
WIFI 6E U-NII-5	802.11ax HE160	12.88	12.88	12.88	12.88	12.88	10.44	10.44	10.44	10.44	10.44	10.44
WIFI 6E U-NII-6	802.11ax HE160	12.61	12.61	12.61	12.61	12.61	9.78	9.78	9.78	9.78	9.78	9.78
WIFI 6E U-NII-7	802.11ax HE160	12.15	12.15	12.15	12.15	12.15	10.31	10.31	10.31	10.31	10.31	10.31
WIFI 6E U-NII-8	802.11ax HE160	12.14	12.14	12.14	12.14	12.14	9.80	9.80	9.80	9.80	9.80	9.80

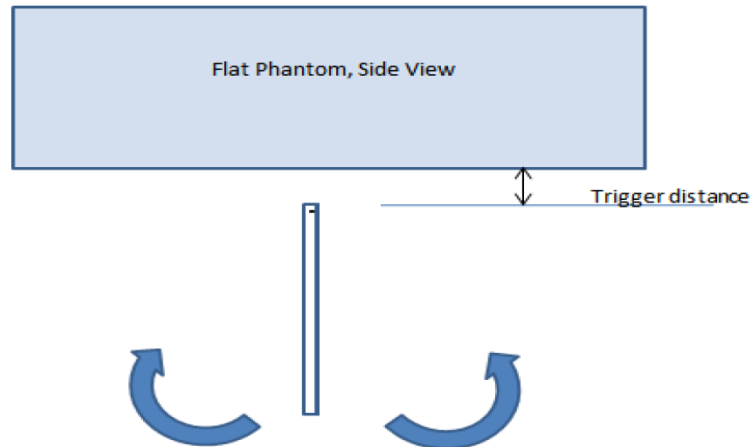


6.2.1.3 Procedures for determining device tilt angle influences to proximity sensor triggering

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band.

The EUT was rotated about Top side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.

The proximity sensor triggering tilt angle measurement method is as below:



Picture: Proximity sensor tilts angle assessment

Table 2: Summary of EUT Tilt Angle Influence to Proximity Sensor Triggering (Top side)

Mode	Minimum distance at which power reduction was maintained over $\pm 45^\circ$	Power reduction status(ON/OFF)										
		-45°	-40°	-30°	-20°	-10°	-0°	10°	20°	30°	40°	45°
WiFi 2.4G	7mm	on	on	on	on	on	on	on	on	on	on	on
WiFi 5G	7mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 6E	7mm	on	on	on	on	on	on	on	on	on	on	on

Table 3: Summary of EUT Tilt Angle Influence to Proximity Sensor Triggering (Right side)

Mode	Minimum distance at which power reduction was maintained over $\pm 45^\circ$	Power reduction status(ON/OFF)										
		-45°	-40°	-30°	-20°	-10°	-0°	10°	20°	30°	40°	45°
WiFi 2.4G	9mm	on	on	on	on	on	on	on	on	on	on	on
WiFi 5G	9mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 6E	9mm	on	on	on	on	on	on	on	on	on	on	on

Table 4: Summary of EUT Tilt Angle Influence to Proximity Sensor Triggering (Rear side)

Mode	Minimum distance at which power reduction was maintained over +/-45°	Power reduction status(ON/OFF)										
		-45°	-40°	-30°	-20°	-10°	-0°	10°	20°	30°	40°	45°
WiFi 2.4G	15mm	on	on	on	on	on	on	on	on	on	on	on
WiFi 5G	15mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 6E	15mm	on	on	on	on	on	on	on	on	on	on	on

Conclusion: It can be ensured that the proximity sensor can be valid triggered for the DUT tilt coverage exposure condition (WiFi 2.4G/5G/6E with WiFi Antenna).

6.2.1.4 Summary SAR test Plan for Proximity sensor power reduction

The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. SAR tests with proximity sensor power reduction are required for front side, back side, top side and right side of WiFi 2.4G and WiFi 5G with WiFi Antenna. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

Per KDB616217, to ensure all production units are compliant, the smallest separation distance determined by the sensor triggering and sensor coverage for normal and tilt positions for all usage conditions, minus 1 mm, must be used as the test separation distance for additional SAR testing with sensor off.

For this device, as proximity sensor power reduction supports multiple power stages, so we plan that the additional SAR should be considered at the conservative distance, minus 1 mm, for each power stage.

7 SAR MEASUREMENT VARIABILITY AND UNCERTAINTY

7.1 SAR MEASUREMENT VARIABILITY

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The 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.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only 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 (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The detailed repeated measurement results are shown in Section 8.2.

8 CONDUCTED POWER RESULTS

8.1 CONDUCTED POWER MEASUREMENT RESULTS OF BLUETOOTH

BT	Average Conducted Power(dBm)			
	Max.	CH0	CH39	CH78
	Tune up	2402MHz	2441MHz	2480MHz
DH5	9.50	8.62	8.92	9.12
2DH5	5.50	5.21	5.28	5.37
3DH5	5.50	5.30	5.23	5.36

BT	Average Conducted Power(dBm)			
	Max.	CH0	CH19	CH39
	Tune up	2402MHz	2440MHz	2480MHz
BLE(1M)	8.50	8.39	8.28	8.35
BLE(2M)	8.50	7.62	7.80	8.01

Note: The tested channel results are marks in bold.

8.2 CONDUCTED POWER MEASUREMENTS OF WI-FI 2.4GHZ BAND

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI _1TX _ANT Main	802.11b	1	2412	1	12.00	11.94
		6	2437		12.00	11.85
		11	2462		12.00	11.95
	802.11g	1	2412	6	9.25	9.12
		6	2437		12.00	11.69
		11	2462		9.00	8.72
	802.11n HT20	1	2412	HT0	9.25	Not Required
		6	2437		12.00	
		11	2462		9.00	
	802.11n HT40	3	2422	HT0	9.25	
		6	2437		12.00	
		9	2452		9.00	
	802.11ax HE20	1	2412	HE0	9.25	
		6	2437		12.00	
		11	2462		9.00	
	802.11ax HE40	3	2422	HE0	9.25	
		6	2437		12.00	
		9	2452		9.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI _1TX _ANT Aux	802.11b	1	2412	1	12.00	11.76
		6	2437		12.00	11.77
		11	2462		12.00	11.76
	802.11g	1	2412	6	9.25	9.17
		6	2437		12.00	11.72
		11	2462		9.25	9.19
	802.11n HT20	1	2412	HT0	9.25	Not Required
		6	2437		12.00	
		11	2462		9.25	
	802.11n HT40	3	2422	HT0	7.50	
		6	2437		8.75	
		9	2452		7.25	
	802.11ax HE20	1	2412	HE0	9.25	
		6	2437		12.00	
		11	2462		9.25	
	802.11ax HE40	3	2422	HE0	7.50	
		6	2437		8.75	
		9	2452		7.25	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
2.4G WIFI _2TX _ANT Main +Aux	802.11g	1	2412	6	7.25	7.53	10.50	10.40
		6	2437		11.39	11.42	15.00	14.42
		11	2462		7.34	7.48	10.50	10.42
	802.11n HT20	1	2412	HT8	-	-	10.50	Not Required
		6	2437		-	-	15.00	
		11	2462		-	-	10.50	
	802.11n HT40	3	2422	HT8	-	-	9.50	
		6	2437		-	-	10.25	
		9	2452		-	-	8.75	
	802.11ax HE20	1	2412	HE8	-	-	10.50	
		6	2437		-	-	15.00	
		11	2462		-	-	10.50	
	802.11ax HE40	3	2422	HE8	-	-	9.50	
		6	2437		-	-	10.25	
		9	2452		-	-	8.75	

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI_1TX_ANT_Main	802.11b	1	2412	1	20.00	19.87
		6	2437		20.00	19.88
		11	2462		20.00	19.75
	802.11g	1	2412	6	17.25	17.07
		6	2437		20.00	19.69
		11	2462		17.00	16.72
	802.11n HT20	1	2412	HT0	17.25	Not Required
		6	2437		20.00	
		11	2462		17.00	
	802.11n HT40	3	2422	HT0	17.25	
		6	2437		20.00	
		9	2452		17.00	
	802.11ax HE20	1	2412	HE0	17.25	
		6	2437		20.00	
		11	2462		17.00	
	802.11ax HE40	3	2422	HE0	17.25	
		6	2437		20.00	
		9	2452		17.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI_1TX_ANT_Aux	802.11b	1	2412	1	20.00	19.88
		6	2437		20.00	19.90
		11	2462		20.00	19.86
	802.11g	1	2412	6	17.25	17.11
		6	2437		20.00	19.72
		11	2462		17.25	17.19
	802.11n HT20	1	2412	HT0	17.25	Not Required
		6	2437		20.00	
		11	2462		17.25	
	802.11n HT40	3	2422	HT0	15.50	
		6	2437		16.75	
		9	2452		15.25	
	802.11ax HE20	1	2412	HE0	17.25	
		6	2437		20.00	
		11	2462		17.25	
	802.11ax HE40	3	2422	HE0	15.50	
		6	2437		16.75	
		9	2452		15.25	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
2.4G WIFI _2TX _ANT _Main +Aux	802.11g	1	2412	6	15.25	15.15	18.50	18.21
		6	2437		19.69	19.72	23.00	22.72
		11	2462		15.34	15.28	18.50	18.32
	802.11n HT20	1	2412	HT8	-	-	18.50	Not Required
		6	2437		-	-	23.00	
		11	2462		-	-	18.50	
	802.11n HT40	3	2422	HT8	-	-	17.50	
		6	2437		-	-	18.25	
		9	2452		-	-	16.75	
	802.11ax HE20	1	2412	HE8	-	-	18.50	
		6	2437		-	-	23.00	
		11	2462		-	-	18.50	
	802.11ax HE40	3	2422	HE8	-	-	17.50	
		6	2437		-	-	18.25	
		9	2452		-	-	16.75	

Note: The tested channel results are marks in bold.

8.3 CONDUCTED POWER MEASUREMENTS OF 5G UNII_1

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G WIFI_1TX_ANT_Main	802.11a	36	5180	6	11.50	Not Required
		40	5200		11.50	
		44	5220		11.50	
		48	5240		11.50	
	802.11n HT20	36	5180	HT0	11.50	
		40	5200		11.50	
		44	5220		11.50	
		48	5240		11.50	
	802.11n HT40	38	5190	HT0	11.50	
		46	5230		11.50	
	802.11ax HE20	36	5180	VHT0	11.50	
		40	5200		11.50	
		44	5220		11.50	
		48	5240		11.50	
	802.11ax HE40	38	5190	HE0	11.50	
		46	5230		11.50	
	802.11ac VHT80	42	5210	HE0	11.50	
	802.11ax HE80	42	5250	HE0	11.50	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G WIFI_1TX_ANT_Aux	802.11a	36	5180	6	11.00	Not Required
		40	5200		11.50	
		44	5220		11.50	
		48	5240		11.50	
	802.11n HT20	36	5180	HT0	11.00	
		40	5200		11.50	
		44	5220		11.50	
		48	5240		11.50	
	802.11n HT40	38	5190	HT0	10.25	
		46	5230		11.50	
	802.11ax HE20	36	5180	VHT0	11.00	
		40	5200		11.50	
		44	5220		11.50	
		48	5240		11.50	
	802.11ax HE40	38	5190	HE0	10.25	
		46	5230		11.50	
	802.11ac VHT80	42	5210	HE0	10.00	
	802.11ax HE80	42	5250	HE0	10.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.2G WIFI _2TX _ANT Main +Aux	802.11a	36	5180	6	-	-	14.00	Not Required
		40	5200		-	-	14.50	
		44	5220		-	-	14.50	
		48	5240		-	-	14.50	
	802.11n HT20	36	5180	HT0	-	-	14.00	
		40	5200		-	-	14.50	
		44	5220		-	-	14.50	
		48	5240		-	-	14.50	
	802.11n HT40	38	5190	HT0	-	-	13.25	
		46	5230		-	-	14.50	
	802.11ax HE20	36	5180	VHT0	-	-	14.00	
		40	5200		-	-	14.50	
		44	5220		-	-	14.50	
		48	5240		-	-	14.50	
	802.11ax HE40	38	5190	HE0	-	-	13.25	
		46	5230		-	-	14.50	
	802.11ac VHT80	42	5210	HE0	-	-	13.00	
	802.11ax HE80	42	5250	HE0	-	-	13.00	

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G WIFI _1TX _ANT Main	802.11a	36	5180	6	18.00	Not Required
		40	5200		18.00	
		44	5220		18.00	
		48	5240		18.00	
	802.11n HT20	36	5180	HT0	18.00	
		40	5200		18.00	
		44	5220		18.00	
		48	5240		18.00	
	802.11n HT40	38	5190	HT0	18.00	
		46	5230		18.00	
	802.11ax HE20	36	5180	VHT0	18.00	
		40	5200		18.00	
		44	5220		18.00	
		48	5240		18.00	
	802.11ax HE40	38	5190	HE0	18.00	
		46	5230		18.00	
	802.11ac VHT80	42	5210	HE0	18.00	
	802.11ax HE80	42	5250	HE0	18.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G WIFI _1TX _ANT Aux	802.11a	36	5180	6	16.50	Not Required
		40	5200		16.50	
		44	5220		16.50	
		48	5240		16.50	
	802.11n HT20	36	5180	HT0	16.50	
		40	5200		16.50	
		44	5220		16.50	
		48	5240		16.50	
	802.11n HT40	38	5190	HT0	16.50	
		46	5230		16.50	
	802.11ax HE20	36	5180	VHT0	16.50	
		40	5200		16.50	
		44	5220		16.50	
		48	5240		16.50	
	802.11ax HE40	38	5190	HE0	16.50	
		46	5230		16.50	
	802.11ac VHT80	42	5210	HE0	16.50	
	802.11ax HE80	42	5250	HE0	16.50	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.2G WIFI _2TX _ANT Main +Aux	802.11a	36	5180	6	-	-	18.50	Not Required
		40	5200		-	-	20.25	
		44	5220		-	-	20.25	
		48	5240		-	-	20.25	
	802.11n HT20	36	5180	HT8	-	-	18.50	
		40	5200		-	-	20.25	
		44	5220		-	-	20.25	
		48	5240		-	-	20.25	
	802.11n HT40	38	5190	HT8	-	-	17.75	
		46	5230		-	-	19.75	
	802.11ax HE20	36	5180	VHT8	-	-	18.50	
		40	5200		-	-	20.25	
		44	5220		-	-	20.25	
		48	5240		-	-	20.25	
	802.11ax HE40	38	5190	HE8	-	-	17.75	
		46	5230		-	-	19.75	
	802.11ac VHT80	42	5210	HE8	-	-	18.00	
	802.11ax HE80	42	5250	HE8	-	-	18.00	

Note: The tested channel results are marks in bold.

8.4 CONDUCTED POWER MEASUREMENTS OF 5G UNII_2A

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G WIFI_1TX_ANT Main	802.11a	52	5260	6	11.50	Not Required
		56	5280		11.50	
		60	5300		11.50	
		64	5320		11.50	
	802.11n HT20	52	5260	HT0	11.50	
		56	5280		11.50	
		60	5300		11.50	
		64	5320		11.50	
	802.11ax HE20	52	5260	HE0	11.50	
		56	5280		11.50	
		60	5300		11.50	
		64	5320		11.50	
	802.11n HT40	54	5270	HT0	11.50	11.37
		62	5310		11.50	11.32
	802.11ax HE40	54	5270	HE0	11.50	Not Required
		62	5310		10.75	
	802.11ac VHT80	58	5290	VHT0	10.75	
	802.11ax HE80	58	5290	HE0	10.75	
	802.11ac VHT160	50	5250	VHT0	9.00	
	802.11ax HE160	50	5250	HE0	9.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G WIFI_1TX_ANT Aux	802.11a	52	5260	6	11.50	Not Required
		56	5280		11.50	
		60	5300		11.50	
		64	5320		11.50	
	802.11n HT20	52	5260	HT0	11.50	
		56	5280		11.50	
		60	5300		11.50	
		64	5320		11.50	
	802.11ax HE20	52	5260	HE0	11.50	
		56	5280		11.50	
		60	5300		11.50	
		64	5320		11.50	
	802.11n HT40	54	5270	HT0	11.50	11.38
		62	5310		11.50	11.36
	802.11ax HE40	54	5270	HE0	11.50	Not Required
		62	5310		9.50	
	802.11ac VHT80	58	5290	VHT0	10.50	
	802.11ax HE80	58	5290	HE0	10.50	
	802.11ac VHT160	50	5250	VHT0	7.50	
	802.11ax HE160	50	5250	HE0	7.50	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.3G WIFI _2TX _ANT Main +Aux	802.11a	52	5260	6	-	-	14.50	Not Required
		56	5280		-	-	14.50	
		60	5300		-	-	14.50	
		64	5320		-	-	14.50	
	802.11n HT20	52	5260	HT0	-	-	14.50	
		56	5280		-	-	14.50	
		60	5300		-	-	14.50	
		64	5320		-	-	14.50	
	802.11ax HE20	52	5260	HE0	-	-	14.50	
		56	5280		-	-	14.50	
		60	5300		-	-	14.50	
		64	5320		-	-	14.50	
	802.11n HT40	54	5270	HT0	11.37	11.38	14.50	14.39
		62	5310		11.32	11.36	14.50	14.35
	802.11ax HE40	54	5270	HE0	-	-	14.50	Not Required
		62	5310		-	-	13.75	
	802.11ac VHT80	58	5290	VHT0	-	-	13.75	
	802.11ax HE80	58	5290	HE0	-	-	13.75	
	802.11ac VHT160	50	5250	VHT0	-	-	12.00	
	802.11ax HE160	50	5250	HE0	-	-	12.00	

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G WIFI _1TX _ANT Main	802.11a	52	5260	6	18.00	Not Required
		56	5280		18.00	
		60	5300		18.00	
		64	5320		18.00	
	802.11n HT20	52	5260	HT0	18.00	
		56	5280		18.00	
		60	5300		18.00	
		64	5320		18.00	
	802.11ax HE20	52	5260	HE0	18.00	
		56	5280		18.00	
		60	5300		18.00	
		64	5320		18.00	
	802.11n HT40	54	5270	HT0	18.00	17.98
		62	5310		17.25	17.19
	802.11ax HE40	54	5270	HE0	18.00	Not Required
		62	5310		17.25	
	802.11ac VHT80	58	5290	VHT0	17.25	
	802.11ax HE80	58	5290	HE0	17.25	
	802.11ac VHT160	50	5250	VHT0	15.50	
	802.11ax HE160	50	5250	HE0	15.50	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G WIFI _1TX _ANT Aux	802.11a	52	5260	6	16.50	Not Required
		56	5280		16.50	
		60	5300		16.50	
		64	5320		16.50	
	802.11n HT20	52	5260	HT0	16.50	
		56	5280		16.50	
		60	5300		16.50	
		64	5320		16.50	
	802.11ax HE20	52	5260	HE0	16.50	
		56	5280		16.50	
		60	5300		16.50	
		64	5320		16.50	
	802.11n HT40	54	5270	HT0	18.00	17.85
		62	5310		16.00	15.81
	802.11ax HE40	54	5270	HE0	16.50	Not Required
		62	5310		16.00	
	802.11ac VHT80	58	5290	VHT0	16.50	
	802.11ax HE80	58	5290	HE0	16.50	
	802.11ac VHT160	50	5250	VHT0	14.00	
	802.11ax HE160	50	5250	HE0	14.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.3G WIFI _2TX _ANT Main +Aux	802.11a	52	5260	6	-	-	20.25	Not Required
		56	5280		-	-	20.25	
		60	5300		-	-	20.25	
		64	5320		-	-	19.00	
	802.11n HT20	52	5260	HT8	-	-	20.25	
		56	5280		-	-	20.25	
		60	5300		-	-	20.25	
		64	5320		-	-	19.00	
	802.11ax HE20	52	5260	HE8	-	-	20.25	
		56	5280		-	-	20.25	
		60	5300		-	-	20.25	
		64	5320		-	-	19.00	
	802.11n HT40	54	5270	HT8	17.44	17.59	20.75	20.53
		62	5310		15.36	15.54	18.50	18.46
	802.11ax HE40	54	5270	HE8	-	-	20.75	Not Required
		62	5310		-	-	18.50	
	802.11ac VHT80	58	5290	VHT8	-	-	18.00	
	802.11ax HE80	58	5290	HE8	-	-	18.00	
	802.11ac VHT160	50	5250	VHT08	-	-	15.25	
	802.11ax HE160	50	5250	HE0	-	-	15.25	

Note: The tested channel results are marks in bold.

8.5 CONDUCTED POWER MEASUREMENTS OF 5G UNII_2C

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G WIFI _1TX _ANT Main	802.11a	100	5500	6	11.00	Not Required
		104	5520		11.00	
		108	5540		11.00	
		112	5560		11.00	
		116	5580		11.00	
		120	5600		11.00	
		124	5620		11.00	
		128	5640		11.00	
	802.11n HT20	100	5500	HT0	11.00	
		104	5520		11.00	
		108	5540		11.00	
		112	5560		11.00	
		116	5580		11.00	
		120	5600		11.00	
		124	5620		11.00	
		128	5640		11.00	
	802.11ax HE20	100	5500	HE0	11.00	
		104	5520		11.00	
		108	5540		11.00	
		112	5560		11.00	
		116	5580		11.00	
		120	5600		11.00	
		124	5620		11.00	
		128	5640		11.00	
	802.11n HT40	102	5510	HT0	11.00	
		110	5550		11.00	
		118	5590		11.00	
		126	5630		11.00	
	802.11ax HE40	102	5510	HE0	11.00	
		110	5550		11.00	
		118	5590		11.00	
		126	5630		11.00	
	802.11ac VHT80	106	5530	VHT0	11.00	10.80
		122	5610		11.00	10.82
	802.11ax HE80	106	5530	HE0	11.00	Not Required
		122	5610		11.00	
	802.11ac VHT160	114	5570	VHT0	10.00	
	802.11ax HE160	114	5570	HE0	10.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G WIFI _1TX _ANT Aux	802.11a	100	5500	6	11.00	Not Required
		104	5520		11.00	
		108	5540		11.00	
		112	5560		11.00	
		116	5580		11.00	
		120	5600		11.00	
		124	5620		11.00	
		128	5640		11.00	
	802.11n HT20	100	5500	HT0	11.00	
		104	5520		11.00	
		108	5540		11.00	
		112	5560		11.00	
		116	5580		11.00	
		120	5600		11.00	
		124	5620		11.00	
		128	5640		11.00	
	802.11ax HE20	100	5500	HE0	11.00	
		104	5520		11.00	
		108	5540		11.00	
		112	5560		11.00	
		116	5580		11.00	
		120	5600		11.00	
		124	5620		11.00	
		128	5640		11.00	
	802.11n HT40	102	5510	HT0	11.00	
		110	5550		11.00	
		118	5590		11.00	
		126	5630		11.00	
	802.11ax HE40	102	5510	HE0	11.00	
		110	5550		11.00	
		118	5590		11.00	
		126	5630		11.00	
	802.11ac VHT80	106	5530	VHT0	11.00	10.90
		122	5610		11.00	10.92
	802.11ax HE80	106	5530	HE0	11.00	Not Required
		122	5610		11.00	
	802.11ac VHT160	114	5570	VHT0	10.25	
	802.11ax HE160	114	5570	HE0	10.25	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.6G WIFI_2TX_ANT_Main+Aux	802.11a	100	5500	6	-	-	14.00	Not Required
		104	5520		-	-	14.00	
		108	5540		-	-	14.00	
		112	5560		-	-	14.00	
		116	5580		-	-	14.00	
		120	5600		-	-	14.00	
		124	5620		-	-	14.00	
		128	5640		-	-	14.00	
	802.11n HT20	100	5500	HT0	-	-	14.00	
		104	5520		-	-	14.00	
		108	5540		-	-	14.00	
		112	5560		-	-	14.00	
		116	5580		-	-	14.00	
		120	5600		-	-	14.00	
		124	5620		-	-	14.00	
		128	5640		-	-	14.00	
	802.11ax HE20	100	5500	HE0	-	-	14.00	
		104	5520		-	-	14.00	
		108	5540		-	-	14.00	
		112	5560		-	-	14.00	
		116	5580		-	-	14.00	
		120	5600		-	-	14.00	
		124	5620		-	-	14.00	
		128	5640		-	-	14.00	
	802.11n HT40	102	5510	HT0	-	-	14.00	
		110	5550		-	-	14.00	
		118	5590		-	-	14.00	
		126	5630		-	-	14.00	
	802.11ax HE40	102	5510	HE0	-	-	14.00	
		110	5550		-	-	14.00	
		118	5590		-	-	14.00	
		126	5630		-	-	14.00	
	802.11ac VHT80	106	5530	VHT0	10.80	10.90	14.00	13.86
		122	5610		10.82	10.92	14.00	13.88
	802.11ax HE80	106	5530	HE0	-	-	14.00	Not Required
		122	5610		-	-	14.00	
	802.11ac VHT160	114	5570	VHT0	-	-	13.00	
	802.11ax HE160	114	5570	HE0	-	-	13.00	

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G WIFI _1TX _ANT Main	802.11a	100	5500	6	16.00	Not Required
		104	5520		16.00	
		108	5540		16.00	
		112	5560		16.00	
		116	5580		16.00	
		120	5600		16.00	
		124	5620		16.00	
		128	5640		16.00	
	802.11n HT20	100	5500	HT0	16.00	
		104	5520		16.00	
		108	5540		16.00	
		112	5560		16.00	
		116	5580		16.00	
		120	5600		16.00	
		124	5620		16.00	
		128	5640		16.00	
	802.11ax HE20	100	5500	HE0	16.00	
		104	5520		16.00	
		108	5540		16.00	
		112	5560		16.00	
		116	5580		16.00	
		120	5600		16.00	
		124	5620		16.00	
		128	5640		16.00	
	802.11n HT40	102	5510	HT0	16.00	
		110	5550		16.00	
		118	5590		16.00	
		126	5630		16.00	
	802.11ax HE40	102	5510	HE0	16.00	
		110	5550		16.00	
		118	5590		16.00	
		126	5630		16.00	
	802.11ac VHT80	106	5530	VHT0	16.00	15.92
		122	5610		16.00	15.96
	802.11ax HE80	106	5530	HE0	16.00	Not Required
		122	5610		16.00	
	802.11ac VHT160	114	5570	VHT0	15.00	
	802.11ax HE160	114	5570	HE0	15.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G WIFI _1TX _ANT Aux	802.11a	100	5500	6	16.00	Not Required
		104	5520		16.00	
		108	5540		16.00	
		112	5560		16.00	
		116	5580		16.00	
		120	5600		16.00	
		124	5620		16.00	
		128	5640		16.00	
	802.11n HT20	100	5500	HT0	16.00	
		104	5520		16.00	
		108	5540		16.00	
		112	5560		16.00	
		116	5580		16.00	
		120	5600		16.00	
		124	5620		16.00	
		128	5640		16.00	
	802.11ax HE20	100	5500	HE0	16.00	
		104	5520		16.00	
		108	5540		16.00	
		112	5560		16.00	
		116	5580		16.00	
		120	5600		16.00	
		124	5620		16.00	
		128	5640		16.00	
	802.11n HT40	102	5510	HT0	16.00	
		110	5550		16.00	
		118	5590		16.00	
		126	5630		16.00	
	802.11ax HE40	102	5510	HE0	16.00	
		110	5550		16.00	
		118	5590		16.00	
		126	5630		16.00	
	802.11ac VHT80	106	5530	VHT0	16.00	15.74
		122	5610		16.00	15.76
	802.11ax HE80	106	5530	HE0	16.00	Not Required
		122	5610		16.00	
	802.11ac VHT160	114	5570	VHT0	15.25	
	802.11ax HE160	114	5570	HE0	15.25	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.6G WIFI_2TX_ANT_Main+Aux	802.11a	100	5500	6	-	-	19.00	Not Required
		104	5520		-	-	19.00	
		108	5540		-	-	19.00	
		112	5560		-	-	19.00	
		116	5580		-	-	19.00	
		120	5600		-	-	19.00	
		124	5620		-	-	19.00	
		128	5640		-	-	19.00	
	802.11n HT20	100	5500	HT8	-	-	19.00	
		104	5520		-	-	19.00	
		108	5540		-	-	19.00	
		112	5560		-	-	19.00	
		116	5580		-	-	19.00	
		120	5600		-	-	19.00	
		124	5620		-	-	19.00	
		128	5640		-	-	19.00	
	802.11ax HE20	100	5500	HE8	-	-	19.00	
		104	5520		-	-	19.00	
		108	5540		-	-	19.00	
		112	5560		-	-	19.00	
		116	5580		-	-	19.00	
		120	5600		-	-	19.00	
		124	5620		-	-	19.00	
		128	5640		-	-	19.00	
	802.11n HT40	102	5510	HT8	-	-	19.00	
		110	5550		-	-	19.00	
		118	5590		-	-	19.00	
		126	5630		-	-	19.00	
	802.11ax HE40	102	5510	HE8	-	-	19.00	
		110	5550		-	-	19.00	
		118	5590		-	-	19.00	
		126	5630		-	-	19.00	
	802.11ac VHT80	106	5530	VHT8	15.79	15.81	19.00	18.81
		122	5610		15.65	15.86	19.00	18.77
	802.11ax HE80	106	5530	HE8	-	-	19.00	Not Required
		122	5610		-	-	19.00	
	802.11ac VHT160	114	5570	VHT8	-	-	16.50	
	802.11ax HE160	114	5570	HE8	-	-	16.50	

Note: The tested channel results are marks in bold.

8.6 CONDUCTED POWER MEASUREMENTS OF 5G UNII_3

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G WIFI _1TX _ANT Main	802.11a	132	5660	6	11.00	Not Required
		136	5680		11.00	
		140	5700		11.00	
		149	5745		11.00	
		153	5765		11.00	
		157	5785		11.00	
		161	5805		11.00	
		165	5825		11.00	
	802.11n HT20	132	5660	HT0	11.00	
		136	5680		11.00	
		140	5700		11.00	
		149	5745		11.00	
		153	5765		11.00	
		157	5785		11.00	
		161	5805		11.00	
		165	5825		11.00	
	802.11ax HE20	132	5660	HE0	11.00	
		136	5680		11.00	
		140	5700		11.00	
		149	5745		11.00	
		153	5765		11.00	
		157	5785		11.00	
		161	5805		11.00	
		165	5825		11.00	
	802.11n HT40	134	5670	HT0	11.00	
		142	5710		11.00	
		151	5755		11.00	
		159	5795		11.00	
	802.11ax HE40	134	5670	HE0	11.00	
		142	5710		11.00	
		151	5755		11.00	
		159	5795		11.00	
	802.11ac VHT80	138	5690	VHT0	11.00	10.80
		155	5775		11.00	10.82
	802.11ax HE80	138	5690	HE0	11.00	Not Required
		155	5775		11.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G WIFI _1TX _ANT Aux	802.11a	132	5660	6	11.00	Not Required
		136	5680		11.00	
		140	5700		11.00	
		149	5745		11.00	
		153	5765		11.00	
		157	5785		11.00	
		161	5805		11.00	
		165	5825		11.00	
	802.11n HT20	132	5660	HT0	11.00	
		136	5680		11.00	
		140	5700		11.00	
		149	5745		11.00	
		153	5765		11.00	
		157	5785		11.00	
		161	5805		11.00	
		165	5825		11.00	
	802.11ax HE20	132	5660	HE0	11.00	
		136	5680		11.00	
		140	5700		11.00	
		149	5745		11.00	
		153	5765		11.00	
		157	5785		11.00	
		161	5805		11.00	
		165	5825		11.00	
	802.11n HT40	134	5670	HT0	11.00	
		142	5710		11.00	
		151	5755		11.00	
		159	5795		11.00	
	802.11ax HE40	134	5670	HE0	11.00	
		142	5710		11.00	
		151	5755		11.00	
		159	5795		11.00	
	802.11ac VHT80	138	5690	VHT0	11.00	10.76
		155	5775		11.00	10.73
	802.11ax HE80	138	5690	HE0	11.00	Not Required
		155	5775		11.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.8G WIFI _2TX _ANT Main +Aux	802.11a	132	5660	6	-	-	14.00	Not Required
		136	5680		-	-	14.00	
		140	5700		-	-	14.00	
		149	5745		-	-	14.00	
		153	5765		-	-	14.00	
		157	5785		-	-	14.00	
		161	5805		-	-	14.00	
		165	5825		-	-	14.00	
	802.11n HT20	132	5660	HT0	-	-	14.00	
		136	5680		-	-	14.00	
		140	5700		-	-	14.00	
		149	5745		-	-	14.00	
		153	5765		-	-	14.00	
		157	5785		-	-	14.00	
		161	5805		-	-	14.00	
		165	5825		-	-	14.00	
	802.11ax HE20	132	5660	HE0	-	-	14.00	
		136	5680		-	-	14.00	
		140	5700		-	-	14.00	
		149	5745		-	-	14.00	
		153	5765		-	-	14.00	
		157	5785		-	-	14.00	
		161	5805		-	-	14.00	
		165	5825		-	-	14.00	
	802.11n HT40	134	5670	HT0	-	-	14.00	
		142	5710		-	-	14.00	
		151	5755		-	-	14.00	
		159	5795		-	-	14.00	
	802.11ax HE40	134	5670	HE0	-	-	14.00	
		142	5710		-	-	14.00	
		151	5755		-	-	14.00	
		159	5795		-	-	14.00	
	802.11ac VHT80	138	5690	VHT0	10.80	10.76	14.00	13.79
		155	5775		10.74	10.73	14.00	13.75
	802.11ax HE80	138	5690	HE0	-	-	14.00	Not Required
		155	5775		-	-	14.00	

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G WIFI _1TX _ANT Main	802.11a	132	5660	6	17.00	Not Required
		136	5680		17.00	
		140	5700		17.00	
		149	5745		17.00	
		153	5765		17.00	
		157	5785		17.00	
		161	5805		17.00	
		165	5825		17.00	
	802.11n HT20	132	5660	HT0	17.00	
		136	5680		17.00	
		140	5700		17.00	
		149	5745		17.00	
		153	5765		17.00	
		157	5785		17.00	
		161	5805		17.00	
		165	5825		17.00	
	802.11ax HE20	132	5660	HE0	17.00	
		136	5680		17.00	
		140	5700		17.00	
		149	5745		17.00	
		153	5765		17.00	
		157	5785		17.00	
		161	5805		17.00	
		165	5825		17.00	
	802.11n HT40	134	5670	HT0	17.00	
		142	5710		17.00	
		151	5755		17.00	
		159	5795		17.00	
	802.11ax HE40	134	5670	HE0	17.00	
		142	5710		17.00	
		151	5755		17.00	
		159	5795		17.00	
	802.11ac VHT80	138	5690	VHT0	17.00	16.94
		155	5775		17.00	16.80
	802.11ax HE80	138	5690	HE0	17.00	Not Required
		155	5775		17.00	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G WIFI _1TX _ANT Aux	802.11a	132	5660	6	14.50	Not Required
		136	5680		14.50	
		140	5700		14.50	
		149	5745		14.50	
		153	5765		14.50	
		157	5785		14.50	
		161	5805		14.50	
		165	5825		14.50	
	802.11n HT20	132	5660	HT0	14.50	
		136	5680		14.50	
		140	5700		14.50	
		149	5745		14.50	
		153	5765		14.50	
		157	5785		14.50	
		161	5805		14.50	
		165	5825		14.50	
	802.11ax HE20	132	5660	HE0	14.50	
		136	5680		14.50	
		140	5700		14.50	
		149	5745		14.50	
		153	5765		14.50	
		157	5785		14.50	
		161	5805		14.50	
		165	5825		14.50	
	802.11n HT40	134	5670	HT0	14.50	
		142	5710		14.50	
		151	5755		14.50	
		159	5795		14.50	
	802.11ax HE40	134	5670	HE0	14.50	
		142	5710		14.50	
		151	5755		14.50	
		159	5795		14.50	
	802.11ac VHT80	138	5690	VHT0	17.00	16.74
		155	5775		17.00	16.70
	802.11ax HE80	138	5690	HE0	14.50	Not Required
		155	5775		14.50	

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
5.8G WIFI _2TX _ANT Main +Aux	802.11a	132	5660	6	-	-	20.00	Not Required
		136	5680		-	-	20.00	
		140	5700		-	-	20.00	
		149	5745		-	-	20.00	
		153	5765		-	-	20.00	
		157	5785		-	-	20.00	
		161	5805		-	-	20.00	
		165	5825		-	-	20.00	
	802.11n HT20	132	5660	HT8	-	-	20.00	
		136	5680		-	-	20.00	
		140	5700		-	-	20.00	
		149	5745		-	-	20.00	
		153	5765		-	-	20.00	
		157	5785		-	-	20.00	
		161	5805		-	-	20.00	
		165	5825		-	-	20.00	
	802.11ax HE20	132	5660	HE8	-	-	20.00	
		136	5680		-	-	20.00	
		140	5700		-	-	20.00	
		149	5745		-	-	20.00	
		153	5765		-	-	20.00	
		157	5785		-	-	20.00	
		161	5805		-	-	20.00	
		165	5825		-	-	20.00	
	802.11n HT40	134	5670	HT8	-	-	20.00	
		142	5710		-	-	20.00	
		151	5755		-	-	20.00	
		159	5795		-	-	20.00	
	802.11ax HE40	134	5670	HE8	-	-	20.00	
		142	5710		-	-	20.00	
		151	5755		-	-	20.00	
		159	5795		-	-	20.00	
	802.11ac VHT80	138	5690	VHT8	16.89	16.92	20.00	19.92
		155	5775		16.76	16.88	20.00	19.83
	802.11ax HE80	138	5690	HE8	-	-	20.00	Not Required
		155	5775		-	-	20.00	

Note: The tested channel results are marks in bold.

8.7 CONDUCTED POWER MEASUREMENTS OF 6E UNII_5

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-5 WIFI _1TX _ANT Main	802.11ax HE20	1	5955	MCS0	4.50	Not Required
		45	6175		4.50	
		93	6415		4.50	
	802.11ax HE40	3	5965	MCS0	7.75	
		43	6165		7.75	
		91	6405		7.75	
	802.11ax HE80	7	5985	MCS0	10.25	
		39	6145		10.25	
		87	6385		10.25	
	802.11ax HE160	15	6025	MCS0	10.50	10.30
		47	6185		10.50	10.40
		79	6345		10.50	10.42

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-5 WIFI _1TX _ANT Aux	802.11ax HE20	1	5955	MCS0	4.50	Not Required
		45	6175		4.50	
		93	6415		4.50	
	802.11ax HE40	3	5965	MCS0	7.75	
		43	6165		7.75	
		91	6405		7.75	
	802.11ax HE80	7	5985	MCS0	10.25	
		39	6145		10.25	
		87	6385		10.25	
	802.11ax HE160	15	6025	MCS0	10.50	10.44
		47	6185		10.50	10.41
		79	6345		10.50	10.43

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-5 WIFI _2TX _ANT Main +Aux	802.11ax HE20	1	5955	MCS0	-	-	4.50	Not Required
		45	6175		-	-	4.50	
		93	6415		-	-	4.50	
	802.11ax HE40	3	5965	MCS0	-	-	7.75	
		43	6165		-	-	7.75	
		91	6405		-	-	7.75	
	802.11ax HE80	7	5985	MCS0	-	-	10.25	
		39	6145		-	-	10.25	
		87	6385		-	-	10.25	
	802.11ax HE160	15	6025	MCS0	7.30	7.38	10.50	10.35
		47	6185		7.40	7.34	10.50	10.38
		79	6345		7.42	7.30	10.50	10.37

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-5 WIFI _2TX _ANT Main +Aux	802.11ax HE20	1	5955	MCS0	4.50	Not Required
		45	6175		4.50	
		93	6415		4.50	
	802.11ax HE40	3	5965	MCS0	7.75	
		43	6165		7.75	
		91	6405		7.75	
	802.11ax HE80	7	5985	MCS0	10.25	
		39	6145		10.25	
		87	6385		10.25	
	802.11ax HE160	15	6025	MCS0	13.00	12.88
		47	6185		13.00	12.74
		79	6345		13.00	12.89

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-5 WIFI _1TX _ANT Aux	802.11ax HE20	1	5955	MCS0	4.50	Not Required
		45	6175		4.50	
		93	6415		4.50	
	802.11ax HE40	3	5965	MCS0	7.75	
		43	6165		7.75	
		91	6405		7.75	
	802.11ax HE80	7	5985	MCS0	10.25	
		39	6145		10.25	
		87	6385		10.25	
	802.11ax HE160	15	6025	MCS0	13.00	12.88
		47	6185		13.00	12.70
		79	6345		13.00	12.75

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-5 WIFI _2TX _ANT Main +Aux	802.11ax HE20	1	5955	MCS8	-	-	4.50	Not Required
		45	6175		-	-	4.50	
		93	6415		-	-	4.50	
	802.11ax HE40	3	5965	MCS8	-	-	7.75	
		43	6165		-	-	7.75	
		91	6405		-	-	7.75	
	802.11ax HE80	7	5985	MCS8	-	-	10.25	
		39	6145		-	-	10.25	
		87	6385		-	-	10.25	
	802.11ax HE160	15	6025	MCS8	9.78	9.90	13.00	12.85
		47	6185		9.74	9.80	13.00	12.78
		79	6345		9.89	9.75	13.00	12.83

Note: The tested channel results are marks in bold.

8.8 CONDUCTED POWER MEASUREMENTS OF 6E UNII_6

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-6 WIFI _1TX _ANT Main	802.11ax HE20	97	6435	MCS0	4.50	Not Required
		105	6475		4.50	
		113	6515		4.50	
	802.11ax HE40	99	6445	MCS0	7.75	
		107	6485		7.75	
	802.11ax HE80	103	6465	MCS0	10.25	
		119	6545		10.25	
	802.11ax HE160	111	6505	MCS0	10.00	9.96

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-6 WIFI _1TX _ANT Aux	802.11ax HE20	97	6435	MCS0	4.50	Not Required
		105	6475		4.50	
		113	6515		4.50	
	802.11ax HE40	99	6445	MCS0	7.75	
		107	6485		7.75	
	802.11ax HE80	103	6465	MCS0	10.25	
		119	6545		10.25	
	802.11ax HE160	111	6505	MCS0	10.00	9.78

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-6 WIFI _2TX _ANT Main +Aux	802.11ax HE20	97	6435	MCS0	-	-	4.50	Not Required
		105	6475		-	-	4.50	
		113	6515		-	-	4.50	
	802.11ax HE40	99	6445	MCS0	-	-	7.75	
		107	6485		-	-	7.75	
	802.11ax HE80	103	6465	MCS0	-	-	10.00	
		119	6545		-	-	10.00	
	802.11ax HE160	111	6505	MCS0	6.96	6.92	10.00	9.95

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-6 WIFI _2TX _ANT Main +Aux	802.11ax HE20	97	6435	MCS0	4.50	Not Required
		105	6475		4.50	
		113	6515		4.50	
	802.11ax HE40	99	6445	MCS0	7.75	
		107	6485		7.75	
	802.11ax HE80	103	6465	MCS0	10.25	
		119	6545		10.25	
	802.11ax HE160	111	6505	MCS0	13.00	12.89

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-6 WIFI _1TX _ANT Aux	802.11ax HE20	97	6435	MCS0	4.50	Not Required
		105	6475		4.50	
		113	6515		4.50	
	802.11ax HE40	99	6445	MCS0	7.75	
		107	6485		7.75	
	802.11ax HE80	103	6465	MCS0	10.25	
		119	6545		10.25	
	802.11ax HE160	111	6505	MCS0	13.00	12.61

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-6 WIFI _2TX _ANT Main +Aux	802.11ax HE20	97	6435	MCS8	-	-	4.50	Not Required
		105	6475		-	-	4.50	
		113	6515		-	-	4.50	
	802.11ax HE40	99	6445	MCS8	-	-	7.75	
		107	6485		-	-	7.75	
	802.11ax HE80	103	6465	MCS8	-	-	10.25	
		119	6545		-	-	10.25	
	802.11ax HE160	111	6505	MCS8	9.87	9.85	13.00	12.87

Note: The tested channel results are marks in bold.

8.9 CONDUCTED POWER MEASUREMENTS OF 6E UNII_7

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-7 WIFI _1TX _ANT Main	802.11ax HE20	117	6535	MCS0	3.75	Not Required
		149	6695		3.75	
		181	6855		3.75	
	802.11ax HE40	115	6525	MCS0	7.75	
		147	6685		7.00	
		179	6845		7.00	
	802.11ax HE80	135	6625	MCS0	9.50	
		151	6705		9.50	
		167	6785		9.50	
	802.11ax HE160	143	6665	MCS0	10.50	10.48
		175	6825		10.50	10.31

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-7 WIFI _1TX _ANT Aux	802.11ax HE20	117	6535	MCS0	3.75	Not Required
		149	6695		3.75	
		181	6855		3.75	
	802.11ax HE40	115	6525	MCS0	7.75	
		147	6685		7.00	
		179	6845		7.00	
	802.11ax HE80	135	6625	MCS0	9.50	
		151	6705		9.50	
		167	6785		9.50	
	802.11ax HE160	143	6665	MCS0	10.50	10.29
		175	6825		10.50	10.31

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-7 WIFI _2TX _ANT Main +Aux	802.11ax HE20	117	6535	MCS0	-	-	3.75	Not Required
		149	6695		-	-	3.75	
		181	6855		-	-	3.75	
	802.11ax HE40	115	6525	MCS0	-	-	7.00	
		147	6685		-	-	7.00	
		179	6845		-	-	7.00	
	802.11ax HE80	135	6625	MCS0	-	-	9.50	
		151	6705		-	-	9.50	
		167	6785		-	-	9.50	
	802.11ax HE160	143	6665	MCS0	7.34	7.38	10.50	10.37
		175	6825		7.31	7.36	10.50	10.35

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-7 WIFI _2TX _ANT Main +Aux	802.11ax HE20	117	6535	MCS0	3.75	Not Required
		149	6695		3.75	
		181	6855		3.75	
	802.11ax HE40	115	6525	MCS0	7.75	
		147	6685		7.00	
		179	6845		7.00	
	802.11ax HE80	135	6625	MCS0	9.50	
		151	6705		9.50	
		167	6785		9.50	
	802.11ax HE160	143	6665	MCS0	12.25	12.17
		175	6825		12.25	12.14

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-7 WIFI _1TX _ANT Aux	802.11ax HE20	117	6535	MCS0	3.75	Not Required
		149	6695		3.75	
		181	6855		3.75	
	802.11ax HE40	115	6525	MCS0	7.75	
		147	6685		7.00	
		179	6845		7.00	
	802.11ax HE80	135	6625	MCS0	9.50	
		151	6705		9.50	
		167	6785		9.50	
	802.11ax HE160	143	6665	MCS0	12.25	12.15
		175	6825		12.25	12.04

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-7 WIFI _2TX _ANT Main +Aux	802.11ax HE20	117	6535	MCS8	-	-	3.75	Not Required
		149	6695		-	-	3.75	
		181	6855		-	-	3.75	
	802.11ax HE40	115	6525	MCS8	-	-	7.00	
		147	6685		-	-	7.00	
		179	6845		-	-	7.00	
	802.11ax HE80	135	6625	MCS8	-	-	9.50	
		151	6705		-	-	9.50	
		167	6785		-	-	9.50	
	802.11ax HE160	143	6665	MCS8	9.17	9.09	12.25	12.14
		175	6825		9.14	9.24	12.25	12.20

Note: The tested channel results are marks in bold.

8.10 CONDUCTED POWER MEASUREMENTS OF 6E UNII_8

Sensor on:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-8 WIFI _1TX _ANT Main	802.11ax HE20	185	6875	MCS0	3.75	Not Required
		209	6995		3.75	
		233	7115		3.75	
	802.11ax HE40	187	6885	MCS0	7.00	
		227	7085		7.00	
	802.11ax HE80	183	6865	MCS0	9.50	
		199	6945		9.50	
		215	7025		9.50	
	802.11ax HE160	207	6985	MCS0	10.00	9.90

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-8 WIFI _1TX _ANT Aux	802.11ax HE20	185	6875	MCS0	3.75	Not Required
		209	6995		3.75	
		233	7115		3.75	
	802.11ax HE40	187	6885	MCS0	7.00	
		227	7085		7.00	
	802.11ax HE80	183	6865	MCS0	9.50	
		199	6945		9.50	
		215	7025		9.50	
	802.11ax HE160	207	6985	MCS0	10.00	9.80

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-8 WIFI _2TX _ANT Main +Aux	802.11ax HE20	185	6875	MCS0	-	-	3.75	Not Required
		209	6995		-	-	3.75	
		233	7115		-	-	3.75	
	802.11ax HE40	187	6885	MCS0	-	-	7.00	
		227	7085		-	-	7.00	
	802.11ax HE80	183	6865	MCS0	-	-	9.50	
		199	6945		-	-	9.50	
		215	7025		-	-	9.50	
	802.11ax HE160	207	6985	MCS0	6.80	6.89	10.00	9.86

Sensor off:

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-8 WIFI _2TX _ANT Main +Aux	802.11ax HE20	185	6875	MCS0	3.75	Not Required
		209	6995		3.75	
		233	7115		3.75	
	802.11ax HE40	187	6885	MCS0	7.00	
		227	7085		7.00	
	802.11ax HE80	183	6865	MCS0	9.50	
		199	6945		9.50	
		215	7025		9.50	
	802.11ax HE160	207	6985	MCS0	12.25	12.18

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
U-NII-8 WIFI _1TX _ANT Aux	802.11ax HE20	185	6875	MCS0	3.75	Not Required
		209	6995		3.75	
		233	7115		3.75	
	802.11ax HE40	187	6885	MCS0	7.00	
		227	7085		7.00	
	802.11ax HE80	183	6865	MCS0	9.50	
		199	6945		9.50	
		215	7025		9.50	
	802.11ax HE160	207	6985	MCS0	12.25	12.14

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	ANT Main Average Power(dBm)	ANT Aux Average Power(dBm)	Max. Tune up	Total Average Power(dBm)
U-NII-8 WIFI _2TX _ANT Main +Aux	802.11ax HE20	185	6875	MCS8	-	-	3.75	Not Required
		209	6995		-	-	3.75	
		233	7115		-	-	3.75	
	802.11ax HE40	187	6885	MCS8	-	-	7.00	
		227	7085		-	-	7.00	
	802.11ax HE80	183	6865	MCS8	-	-	9.50	
		199	6945		-	-	9.50	
		215	7025		-	-	9.50	
	802.11ax HE160	207	6985	MCS8	9.08	9.14	12.25	12.12

Note: The tested channel results are marks in bold.

8.11 SAR TEST RESULTS

General Notes:

1. Per KDB447498 D01, all measurement SAR results are scaled to the maximum tune-up tolerance limit to demonstrate compliant.
2. Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
3. Per KDB865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR < 1.45 W/kg, only one repeated measurement is required.

WLAN Notes:

1. For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 for 2.4GHz WIFI single transmission chain operations, the highest measured maximum output power Channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.1.4 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 for 5GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed power. Other transmission mode was not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg. See Section 7.1.4 for more information.

9 SAR TEST RESULTS

9.1 BODY SAR TEST RESULTS

SAR test results of Bluetooth

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Ant	Sensor	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W18	DH5	78	Rear Face	0	Aux	Off	1	76.85	9.5	9.12	0	0.402	0.152	0.571
W19	DH5	78	Right Side	0	Aux	Off	1	76.85	9.5	9.12	0.01	0.236	0.105	0.335
W20	DH5	78	Top Side	0	Aux	Off	1	76.85	9.5	9.12	0	<0.001	<0.001	<0.001

Note: The value with boldface is the maximum SAR Value of each test band.

SAR test results of 2.4G WiFi

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Ant	Sensor	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W01	802.11b	11	Rear Face	0	Main	On	1	99.48	12	11.95	0	0.556	0.217	0.565
W02	802.11b	11	Right Side	0	Main	On	1	99.48	12	11.95	0.07	0.348	0.174	0.354
W03	802.11b	11	Top Side	0	Main	On	1	99.48	12	11.95	0.01	0.0753	0.0358	0.077
W04	802.11b	11	Rear Face	14	Main	Off	1	99.48	20	19.75	-0.08	0.196	0.102	0.209
W05	802.11b	11	Right Side	8	Main	Off	1	99.48	20	19.75	0.1	0.114	0.0524	0.121
W06	802.11b	11	Top Side	6	Main	Off	1	99.48	20	19.75	0.03	0.163	0.0855	0.174
W07	802.11b	1	Rear Face	0	Main	On	1	99.48	12	11.94	0.06	0.453	0.187	0.462
W08	802.11b	6	Rear Face	0	Main	On	1	99.48	12	11.85	-0.08	0.518	0.209	0.539
W10	802.11b	6	Rear Face	0	Aux	On	1	99.48	12	11.77	0.18	0.521	0.239	0.552
W11	802.11b	6	Right Side	0	Aux	On	1	99.48	12	11.77	-0.1	0.563	0.242	0.597
W12	802.11b	6	Rear Face	14	Aux	Off	1	99.48	20	19.90	-0.05	0.0452	0.025	0.046
W13	802.11b	6	Right Side	8	Aux	Off	1	99.48	20	19.90	-0.03	0.952	0.454	0.979
W14	802.11b	6	Bottom Side	0	Aux	Off	1	99.48	20	19.90	-0.1	0.299	0.152	0.308
W15	802.11b	1	Right Side	8	Aux	Off	1	99.48	20	19.88	0.09	0.99	0.458	1.023
W16	802.11b	11	Right Side	8	Aux	Off	1	99.48	20	19.86	-0.04	1.16	0.536	1.204

Note: The value with boldface is the maximum SAR Value of each test band.

SAR test results of 5G WiFi

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Ant	Sensor	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W22	802.11n HT40	54	Rear Face	0	Main	On	HT0	98.70	11.5	11.37	0.14	0.547	0.129	0.571
W23	802.11n HT40	54	Right Side	0	Main	On	HT0	98.70	11.5	11.37	-0.04	0.86	0.194	0.898
W24	802.11n HT40	54	Top Side	0	Main	On	HT0	98.70	11.5	11.37	0.07	0.116	0.033	0.121
W25	802.11n HT40	54	Rear Face	14	Main	Off	HT0	98.70	18	17.98	0.19	0.068	0.018	0.069
W26	802.11n HT40	54	Right Side	8	Main	Off	HT0	98.70	18	17.98	-0.09	0.249	0.074	0.253
W27	802.11n HT40	54	Top Side	6	Main	Off	HT0	98.70	18	17.98	0.1	0.05	0.016	0.051
W28	802.11n HT40	62	Right Side	0	Main	On	HT0	98.70	11.5	11.32	0	0.954	0.219	1.007
W31	802.11n HT40	54	Rear Face	0	Aux	On	HT0	98.70	11.5	11.38	-0.03	0.491	0.152	0.511
W32	802.11n HT40	54	Right Side	0	Aux	On	HT0	98.70	11.5	11.38	0.04	0.913	0.246	0.951
W33	802.11n HT40	54	Rear Face	14	Aux	Off	HT0	98.70	18	17.85	0.03	0.26	0.1	0.273
W34	802.11n HT40	54	Right Side	8	Aux	Off	HT0	98.70	18	17.85	-0.15	1.08	0.403	1.133
W35	802.11n HT40	54	Bottom Side	0	Aux	Off	HT0	98.70	18	17.85	0	0.469	0.165	0.492
W36	802.11n HT40	62	Right Side	0	Aux	On	HT0	98.70	11.5	11.36	0.16	1.16	0.43	1.214
W39	802.11ac VHT80	122	Rear Face	0	Main	On	VHT0	98.70%	11	10.82	0.03	0.354	0.109	0.374
W40	802.11ac VHT80	122	Right Side	0	Main	On	VHT0	98.70	11	10.82	0.01	0.762	0.237	0.805
W41	802.11ac VHT80	122	Top Side	0	Main	On	VHT0	98.70	11	10.82	-0.19	0.109	0.036	0.115
W42	802.11ac VHT80	122	Rear Face	14	Main	Off	VHT0	98.70	16	15.96	-0.15	0.136	0.055	0.139
W43	802.11ac VHT80	122	Right Side	8	Main	Off	VHT0	98.70	16	15.96	0.05	0.794	0.291	0.812
W44	802.11ac VHT80	122	Top Side	6	Main	Off	VHT0	98.70	16	15.96	0.18	0.17	0.072	0.174
W45	802.11ac VHT80	106	Right Side	8	Main	Off	VHT0	98.70	16	15.92	-0.02	0.622	0.2	0.642
W48	802.11ac VHT80	122	Rear Face	0	Aux	On	VHT0	98.70	11	10.92	-0.02	0.452	0.137	0.466
W49	802.11ac VHT80	122	Right Side	0	Aux	On	VHT0	98.70	11	10.92	-0.03	0.789	0.218	0.814
W50	802.11ac VHT80	122	Rear Face	14	Aux	Off	VHT0	98.70	16	15.76	0.11	0.153	0.059	0.164
W51	802.11ac VHT80	122	Right Side	8	Aux	Off	VHT0	98.70	16	15.76	0.03	0.797	0.284	0.853
W52	802.11ac VHT80	122	Bottom Side	0	Aux	Off	VHT0	98.70	16	15.76	0.06	0.172	0.052	0.184
W53	802.11ac VHT80	106	Right Side	8	Aux	Off	VHT0	98.70	16	15.74	0.03	0.762	0.283	0.820

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Ant	Sensor	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W56	802.11ac VHT80	138	Rear Face	0	Main	On	VHT0	98.70	11	10.80	0.06	0.463	0.122	0.491
W57	802.11ac VHT80	138	Right Side	0	Main	On	VHT0	98.70	11	10.80	-0.1	0.748	0.219	0.794
W58	802.11ac VHT80	138	Top Side	0	Main	On	VHT0	98.70	11	10.80	-0.01	0.086	0.031	0.091
W59	802.11ac VHT80	138	Rear Face	14	Main	Off	VHT0	98.70	17	16.94	-0.03	0.196	0.076	0.201
W60	802.11ac VHT80	138	Right Side	8	Main	Off	VHT0	98.70	17	16.94	0.05	0.829	0.309	0.852
W61	802.11ac VHT80	138	Top Side	6	Main	Off	VHT0	98.70	17	16.94	0.18	0.17	0.069	0.175
W62	802.11ac VHT80	155	Right Side	8	Main	Off	VHT0	98.70	17	16.80	0.06	0.786	0.288	0.834
W65	802.11ac VHT80	138	Rear Face	0	Aux	On	VHT0	98.70	11	10.76	0.13	0.423	0.131	0.453
W66	802.11ac VHT80	138	Right Side	0	Aux	On	VHT0	98.70	11	10.76	-0.01	0.759	0.242	0.813
W67	802.11ac VHT80	138	Rear Face	14	Aux	Off	VHT0	98.70	17	16.74	0.02	0.209	0.08	0.225
W68	802.11ac VHT80	138	Right Side	8	Aux	Off	VHT0	98.70	17	16.74	-0.02	0.996	0.351	1.071
W69	802.11ac VHT80	138	Bottom Side	0	Aux	Off	VHT0	98.70	17	16.74	-0.01	0.41	0.15	0.441
W70	802.11ac VHT80	155	Right Side	8	Aux	On	VHT0	98.70	17	16.70	0.05	0.859	0.26	0.933

Note: The value with boldface is the maximum SAR Value of each test band.

SAR test results of 6E WiFi

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Ant	sensor	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W73	802.11ax HE160	79	Rear Face	0	Main	On	HE0	98.92	10.5	10.42	-0.14	0.397	0.112	0.409
W74	802.11ax HE160	79	Right Side	0	Main	On	HE0	98.92	10.5	10.42	0.13	0.725	0.213	0.747
W75	802.11ax HE160	79	Top Side	0	Main	On	HE0	98.92	10.5	10.42	-0.11	0.071	0.025	0.073
W76	802.11ax HE160	79	Rear Face	14	Main	Off	HE0	98.92	13	12.89	0.13	<0.001	<0.001	<0.001
W77	802.11ax HE160	79	Right Side	8	Main	Off	HE0	98.92	13	12.89	-0.11	0.572	0.29	0.593
W78	802.11ax HE160	79	Top Side	6	Main	Off	HE0	98.92	13	12.89	0.08	0.093	0.039	0.096
W79	802.11ax HE160	15	Right Side	0	Main	On	HE0	98.92	10.5	10.30	-0.06	0.824	0.238	0.872
W80	802.11ax HE160	111	Right Side	0	Main	On	HE0	98.92	10	9.96	-0.18	0.63	0.177	0.643
W81	802.11ax HE160	175	Right Side	0	Main	On	HE0	98.92	10.5	10.31	0.12	0.632	0.169	0.667
W82	802.11ax HE160	207	Right Side	0	Main	On	HE0	98.92	10	9.9	0.03	0.459	0.128	0.475
W84	802.11ax HE160	15	Rear Face	0	Aux	On	HE0	98.92	10.5	10.44	0.03	0.38	0.108	0.389
W85	802.11ax HE160	15	Right Side	0	Aux	On	HE0	98.92	10.5	10.44	0.09	0.985	0.315	1.010
W86	802.11ax HE160	15	Rear Face	14	Aux	Off	HE0	98.92	13	12.88	0.08	0.117	0.045	0.122
W87	802.11ax HE160	15	Right Side	8	Aux	Off	HE0	98.92	13	12.88	-0.17	0.512	0.189	0.532
W88	802.11ax HE160	15	Bottom Side	0	Aux	Off	HE0	98.92	13	12.88	-0.02	0.199	0.066	0.207
W89	802.11ax HE160	79	Right Side	0	Aux	On	HE0	98.92	10.5	10.43	0.09	0.669	0.236	0.687
W90	802.11ax HE160	111	Right Side	0	Aux	On	HE0	98.92	10	9.78	0.02	0.941	0.3	1.001
W91	802.11ax HE160	175	Right Side	0	Aux	On	HE0	98.92	10.5	10.31	0.09	0.768	0.227	0.811
W92	802.11ax HE160	207	Right Side	0	Aux	On	HE0	98.92	10	9.80	0.17	0.73	0.222	0.773

Note: The value with boldface is the maximum SAR Value of each test band.

Power Density results of 6E WiFi

System&Position						SAR									Power Density								
Test No.	Band	Chan nel	Test Position	Separa tion Dist ance (cm)	Ant	Data Rate	Duty Cycle (%)	Maxi mum Tune up (dBm)	Condu cted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Repo rted 1g SAR	APD W/m² (4cm²)	Grid Step (λ)	Scaling Factor for Measu rement Uncer tainty	Aver aging Area (cm²)	Power Drift (dB)	Normal PsPD (W/m²)	Scaling Normal PsPD (W/m²)	Total PsPD (W/m²)	Scaling Total PsPD (W/m²)	
W79	802.11ax HE160	15	Right Side	0	Main	HE0	98.92	10.5	10.30	-0.06	0.824	0.238	0.872	6.99	0.0625	1.55	4	0.04	2.4	3.938	4.13	6.78	
W85	802.11ax HE160	15	Right Side	0	Aux	HE0	98.92	10.5	10.44	0.09	0.985	0.315	1.010	7.75	0.0625	1.55	4	-0.03	1.95	3.098	3.05	4.85	

Note:

- 1) Chose the worst case of WiFi 6E to test power density.
- 2) This device is in compliance with power density for general population or uncontrolled exposure limits, and has been tested in accordance with the measurement methods and procedures specified in TCBC workshop notes and IEC TR 63170.

10 SIMULTANEOUS TRANSMISSION CONDITIONS

10.1 STAND-ALONE SAR TEST EXCLUSION

SAR compliance for simultaneous transmission must be considered when the maximum duration of overlapping transmissions, including network hand-offs, is greater than 30 seconds. This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis.

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Simultaneous Tx Combination	Body
1	WiFi 2.4G (Main Ant) + WiFi 2.4G (Aux Ant)	Yes
2	WiFi 5G (Main Ant) + WiFi 5G (Aux Ant)	Yes
3	WiFi 6E (Main Ant) + WiFi 6E (Aux Ant)	Yes
4	WiFi 2.4G (Main Ant) + BT (Aux Ant)	Yes
5	WiFi 5G (Main Ant) + BT (Aux Ant)	Yes
6	WiFi 6E (Main Ant) + BT (Aux Ant)	Yes
7	WiFi 2.4G (Aux Ant) + BT (Aux Ant)	Yes
8	WiFi 5G (Aux Ant) + BT (Aux Ant)	Yes
9	WiFi 6E (Aux Ant) + BT (Aux Ant)	Yes

Note: Only the Main Ant supports BT function.

10.2 SAR UMMATION SCENARIO

Test Position SAR _{1g} (W/Kg)		Rear Face	Front Face	Right Side	Top Side	Bottom Side
ANT Main	WiFi 2.4G	0.565	/	0.354	0.174	/
	WiFi 5.3G	0.571	/	1.007	0.121	/
	WiFi 5.6G	0.374	/	0.812	0.174	/
	WiFi 5.8G	0.491	/	0.852	0.175	/
	WiFi 6E	0.409	/	0.872	0.096	/
ANT Aux	WiFi 2.4G	0.552	/	1.204	/	0.308
	WiFi 5.3G	0.511	/	1.214	/	0.492
	WiFi 5.6G	0.466	/	0.853	/	0.184
	WiFi 5.8G	0.453	/	1.071	/	0.441
	WiFi 6E	0.389	/	1.010	/	0.207
	BT	0.571	/	0.335	<0.001	/
MAX ΣSAR _{1g}	ANT Main WiFi + ANT Aux WiFi	1.142	0.000	2.221	0.175	0.492
	ANT Main WiFi + ANT Aux BT	1.142	0.000	1.343	0.175	0.000
	ANT Aux WiFi + ANT Aux BT	1.123	0.000	1.549	0.000	0.492

Reported SAR _{1g} Test Position		Aux_ 2.4G	Aux_ 5.3G	Aux_ 5.6G	Aux_ 5.8G	Aux_ 6E	MAX ΣSAR _{1g}
Right Side	Main_2.4G	1.558	/	/	/	/	1.558
	Main_5.3G	/	2.221	/	/	/	Refer to SPLSR results (1)
	Main_5.6G	/	/	1.665	/	/	Refer to SPLSR results (2)
	Main_5.8G	/	/	/	1.923	/	Refer to SPLSR results (3)
	Main_6E	/	/	/	/	1.882	Refer to SPLSR results (4)

Note:

1) MAX. ΣSAR_{1g}<1.6 W/Kg, the SAR to peak location separation ratio should not be considered, otherwise, see section 7.3.3 for more information.

2) The highest simultaneous SAR value = 1.558 W/Kg, per KDB690783 D01.

10.3 SIMULTANEOUS TRANSMISSION CONDITIONS

According to KDB447498 D04, When the sum of SAR is larger than limit, SAR test exclusion is determined by the SAR to peak location separation ratio (SPLSR). When the SAR to peak location ratio for each pair of antennas is 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. When 10-g SAR applies, the ratio must be ≤ 0.10 .

When SAR is measured for both antennas in the pair the peak location separation distance is computed by the following formula:

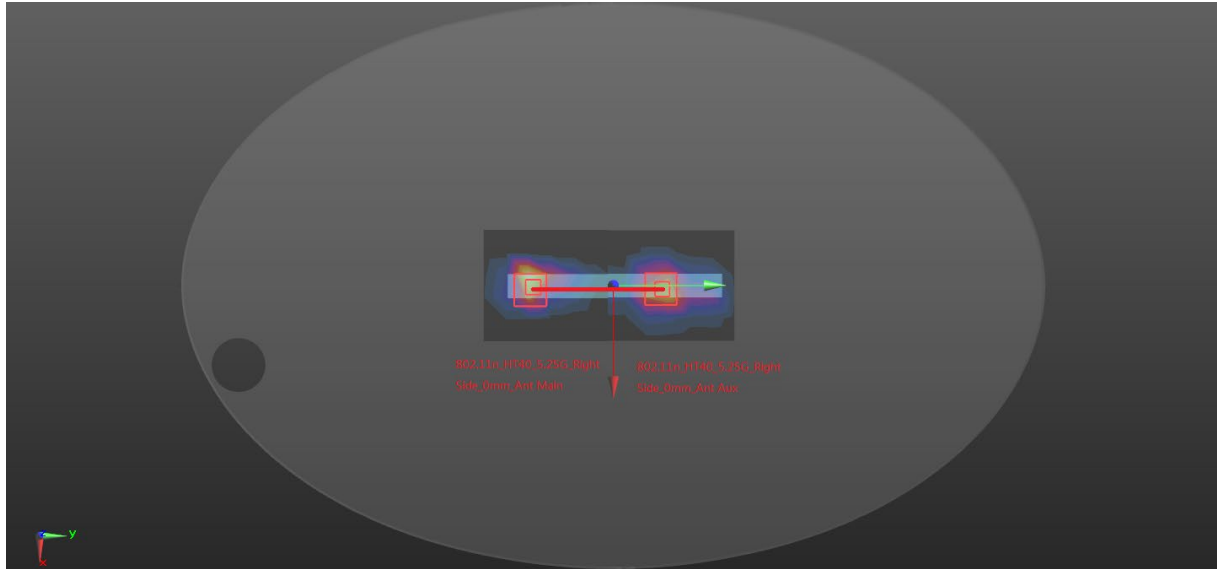
$$\text{Distance}_{\text{Tx1-Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

$$\text{SPLS Ratio} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / R_i$$

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location should be translated onto the test device to determine the peak location separation for the antenna pair. The ERP location on the phantom is aligned with the ERP location on the handset, with 6mm separation in the z coordinate due to the ear spacer. A measured peak location can be translated onto the handset, with respect to the ERP location, by ignoring the 6 mm offset in the z coordinate. The assumed peak location of the antenna with estimated SAR can also be determined with respect to the ERP location on the handset. The peak location separation distance is estimated by the x and y coordinated of the peaks, referenced to the ERP location. While flat phantoms are not expected to have these issues, the same peak translation approach should be applied to determine peak location separation.

(1) The sum of aggregate 1g SAR was above 1.6 W/kg for Back of Keyboard configuration with WiFi 5.3G Main Ant and WiFi 5.3G Aux Ant.

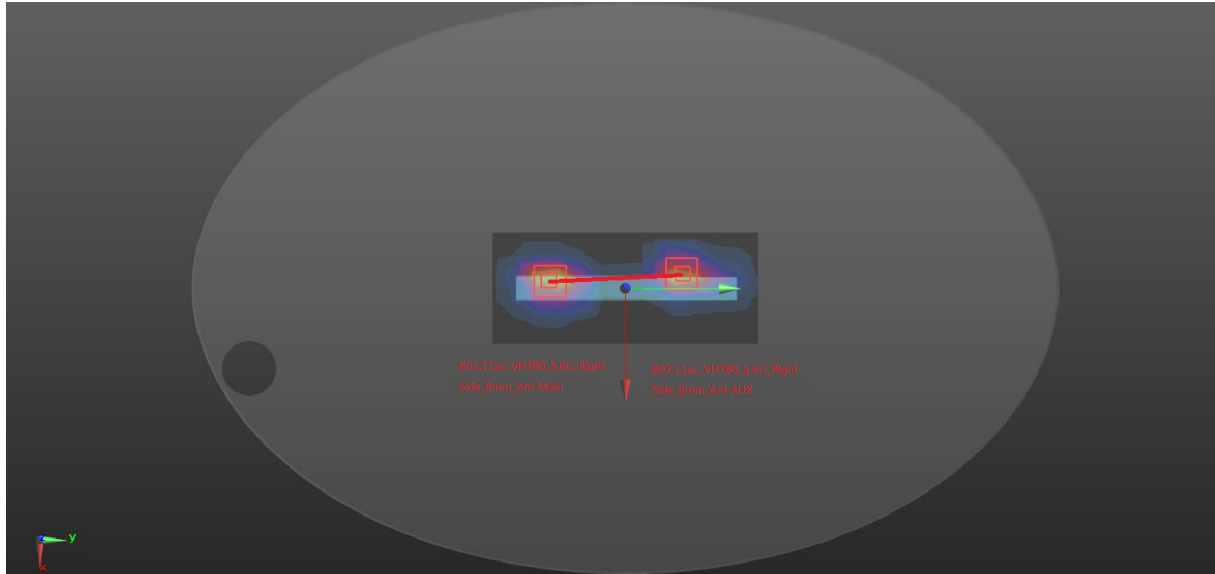
The Peak SAR location is as below:



Mode	Reported SAR _{1g}	Peak SAR _{1g}	X	Y	Z	D (mm)	SPLSR	Ratio Limit	Simultaneous SAR
	mW/g	mW/g	m	m	m				
Main Ant WiFi 5.3G	1.007	2.41	-0.003	-0.057	-0.184	88.7	0.037	0.04	No
Aux Ant WiFi 5.3G	1.214	2.71	0.0015	0.0315	-0.181				

(2) The sum of aggregate 1g SAR was above 1.6 W/kg for Back of Keyboard configuration with WiFi 5.6G Main Ant and WiFi 5.6G Aux Ant.

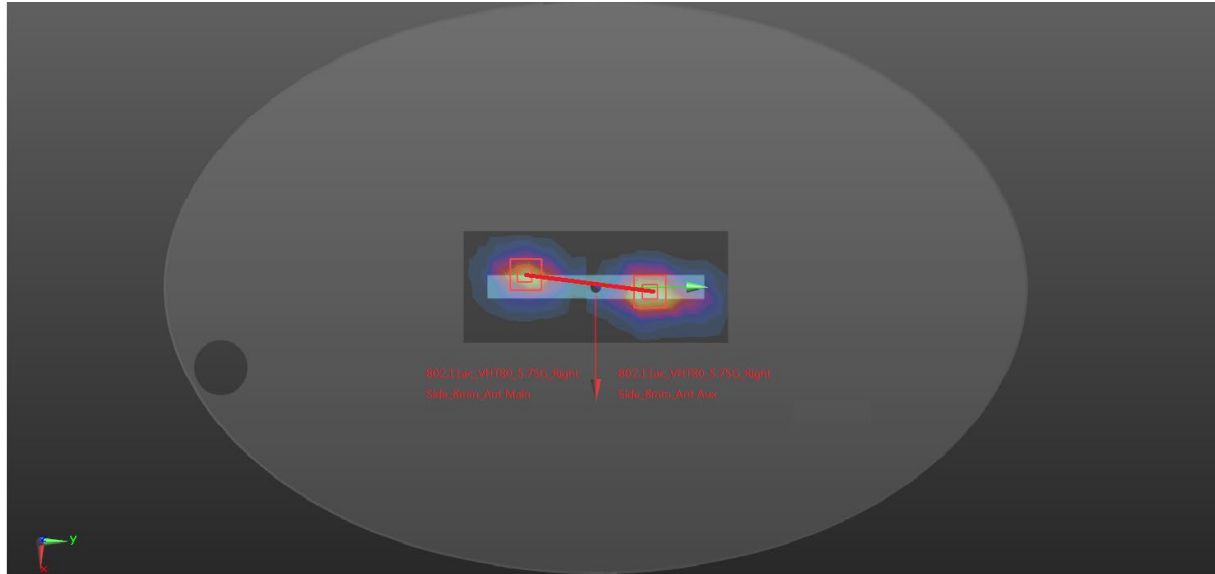
The Peak SAR location is as below:



Mode	Reported SAR _{1g}	Peak SAR _{1g}	X	Y	Z	D (mm)	SPLSR	Ratio Limit	Simultaneous SAR
	mW/g	mW/g	m	m	m				
Main Ant WiFi 5.6G	0.812	1.95	-0.0045	-0.051	-0.184	85.7	0.025	0.04	No
Aux Ant WiFi 5.6G	0.853	1.97	-0.0105	0.0345	-0.184				

(3) The sum of aggregate 1g SAR was above 1.6 W/kg for Back of Keyboard configuration with WiFi 5.8G Main Ant and WiFi 5.8G Aux Ant.

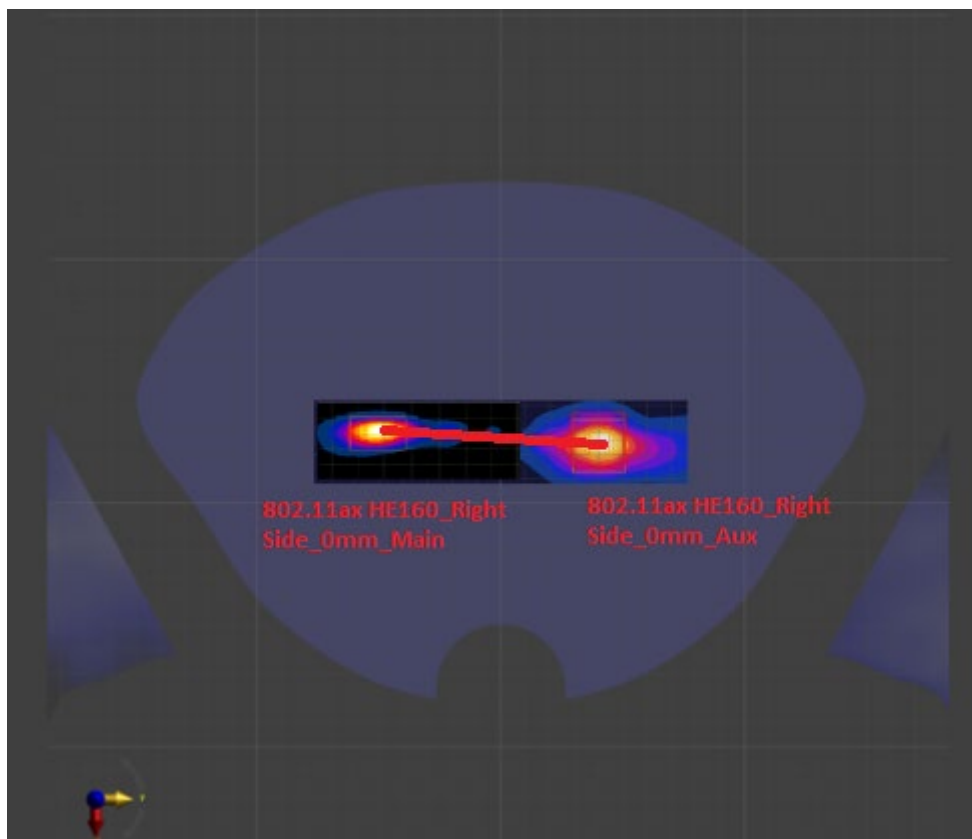
The Peak SAR location is as below:



Mode	Reported SAR _{1g}	Peak SAR _{1g}	X	Y	Z	D (mm)	SPLSR	Ratio Limit	Simultaneous SAR
	mW/g	mW/g	m	m	m				
Main Ant WiFi 5.8G	0.852	2.01	-0.0075	-0.0465	-0.184	83.2	0.032	0.04	No
Aux Ant WiFi 5.8G	1.071	2.5	0.003	0.036	-0.184				

(4) The sum of aggregate 1g SAR was above 1.6 W/kg for Back of Keyboard configuration with WiFi 6E Main Ant and WiFi 6E Aux Ant.

The Peak SAR location is as below:

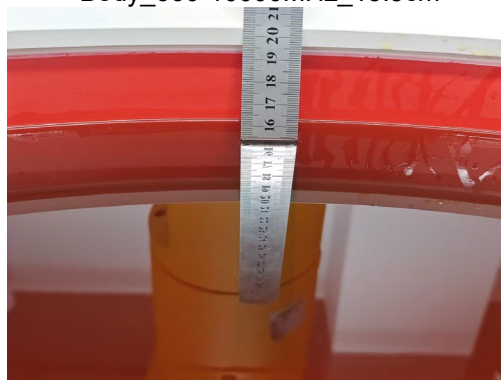


11 TEST LAYOUT

Specific Absorption Rate Test Layout



Liquid depth in the flat Phantom ($\geq 15\text{cm}$ depth)
Body_600-10000MHz_15.5cm



Appendix A.SAR Plots of System Verification

(Pls See BTL-FCC SAR-1-2505G007_Appendix A.)

Appendix B.SAR Plots of SAR Measurement

(Pls See BTL-FCC SAR-1-2505G007_Appendix B.)

Appendix C.Calibration Certificate

(Pls See BTL-FCC SAR-1-2505G007_Appendix C.)

Appendix D.Photographs of the Test Set-Up

(Pls See BTL-FCC SAR-1-2505G007_Appendix D.)

End of Test Report