

Report No.: SEWM2302000047RG06

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FCC SAR TEST REPORT

SEWM2302000047RG **Application No.:**

Applicant: Xiaomi Communications Co., Ltd. Manufacturer: Xiaomi Communications Co., Ltd.

Product Name: Tablet Computer 23043RP34G Model No.(EUT):

Trade Mark: **XIAOMI**

2AFZZRP34G FCC ID:

Standards: FCC 47CFR §2.1093

Date of Receipt: 2023-02-28

Date of Test: 2023-03-10 to 2023-03-15

Date of Issue: 2023-03-17 **Test Result:** PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2302000047RG06	01	Original	2023-03-17



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TEST SUMMARY

Frequency Band	Test position	Max Report SAR1-g (W/kg)	SAR limit (W/kg)
WI-FI (2.4GHz)	Body	1.03	1.60
WI-FI (5GHz)	Body	1.09	1.60
BT Body		0.79	1.60
Maximum Simultaneous Transmission SAR (W/kg)		1.57	1.60

Reviewed by
Well Wei

Prepared by

Nick Hu

Nick Hu





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1 General Information

1.1 Details of Client

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

1.2 Test Location

·· · · · · · · · · · · · · · · · · · ·		
Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.	
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone	
Post code:	215000	
Test Engineer :	Alan Zhang,Leon Liu	



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1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327





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1.4 General Description of EUT

Product Name:	Tablet Computer	Tablet Computer		
Model No.(EUT):	23043RP34G	23043RP34G		
Trade Mark:	XIAOMI			
Product Phase:	production unit			
Device Type:	portable device			
Exposure Category:	uncontrolled enviror	ment / general population		
SN:	a437d383			
FCC ID:	2AFZZRP34G			
Hardware Version:	P2			
Software Version:	MIUI 14			
Antenna Type:	PIFA and Resonant	PIFA and Resonant cavity Antenna		
Device Operating Configura	ations:			
Modulation Mode:	WIFI: DSSS, OFDM	WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK,8DPSK		
	Band	Tx (MHz)	Rx (MHz)	
	WIFI(2.4GHz)	2412-2462	2412-2462	
		5150-5250	5150-5250	
Frequency Bands:	WIFI(5GHz)	5250-5350	5250-5350	
	WIFI(3GHZ)	5470-5725	5470-5725	
		5725-5850	5725-5850	
	BT	2402-2480	2402-2480	
	Model:	BP4N		
Battery Information:	Normal Voltage:	3.87V		
	Rated capacity:	4320mAh		



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01 v02r02	802.11 Wi-Fi SAR
KDB 616217 D04 v01r02	SAR for laptop and tablets
KDB 447498 D01	General RF Exposure Guidance v06
KDB 447498 D03 v01	Supplement C Cross-Reference
KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Reporting
KDB 648474 D04	SAR Evaluation Considerations for Wireless Handsets

1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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2 SAR Measurements System Configuration2.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

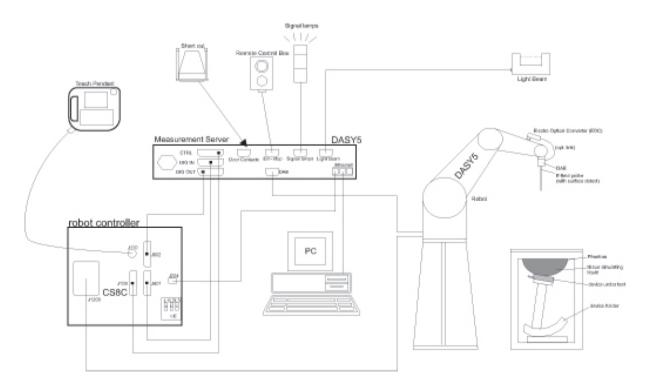
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

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.

A data acquisition electronics (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.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

2.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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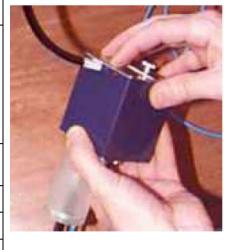


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2.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



2.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



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.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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2.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid	Compatible with all SPEAG tissue
Compatibility	simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm
Dimensions	Minor axis: 400 mm
Filling Volume	approx. 30 liters
Wooden Support	SPEAG standard phantom table



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.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.





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2.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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2.7 Measurement procedure

2.7.1 Scanning procedure

Step 1: Power reference measurement

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.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

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



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			≤ 3 GHz	> 3 GHz		
	Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			½·δ·ln(2) ± 0.5 mm		
	Maximum probe angle from probe axis to phantom surface normal at the measurement location			20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*		
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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2.7.2 Data Storage

The DASY 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], [m W/g], [m W/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.

2.7.3 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, ai0, ai1, ai2

Conversion factorDiode compression pointConvFiDcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity ϵ

- Density ρ

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 DASY 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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

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

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)



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

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

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

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= 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.

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

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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3 Description of Test Position

3.1 The Body Test Position

The overall diagonal dimension of the display section of a tablet is > 20 cm, 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 are 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 against the phantom and the edge containing the antenna positioned perpendicular to the phantom.



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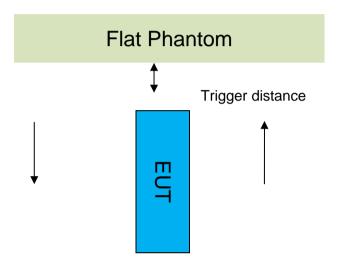
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4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WLAN2.4Ghz/WLAN 5GHz. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)						
Position	Back side					
Minimum	16mm					
Required SAR Test	15mm					

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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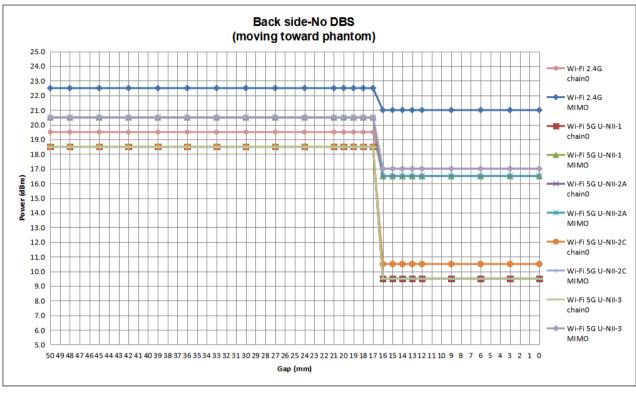
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DUT Moving Toward(Trigger)the Phantom







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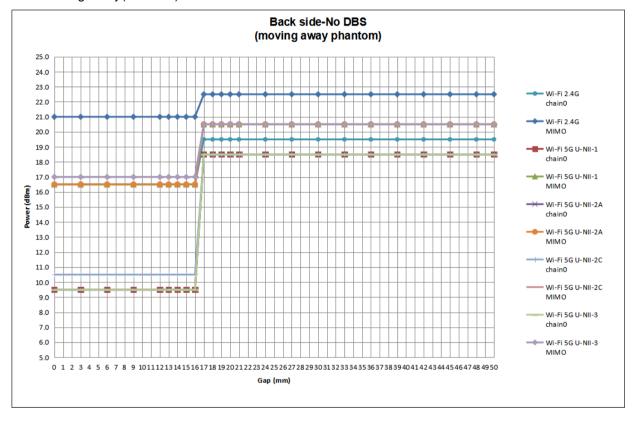
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DUT Moving Away(Release) from the Phantom





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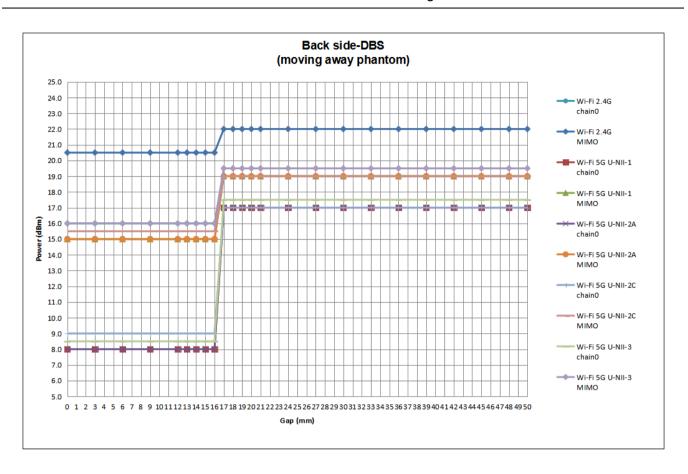
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Proximity sensor coverage

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and "along the direction of maximum antenna and sensor offset".

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



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SAR System Verification Procedure 5

Tissue Simulate Liquid 5.1

Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)
(% by weight)	2450
Tissue Type	Head
Water	55.00
Salt (NaCl)	0.2
Sucrose	0
HEC	0
Bactericide	0
Tween	44.80
Salt: 99+% Pure Sodium Chloride	Sucrose: 98+% Pure Sucrose
Water: De-ionized, 16 MΩ ⁺ resistivity	HEC: Hydroxyethyl Cellulose

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65%

Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

Table 1: Recipe of Tissue Simulate Liquid



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5.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency	Target Tissue (±5%)		Measure	d Tissue	Liquid Temp.	Test Date	
,	(MHz)	εr	σ(S/m)	ε _r	σ(S/m)	(℃)		
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.136	1.784	22.6	2023-3-10	
5250Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	35.575	4.724	22.1	2023-3-11	
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	34.903	5.198	22.1	2023-3-13	
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.531	5.381	22.1	2023-3-15	

Table 2: Measurement result of Tissue electric parameters



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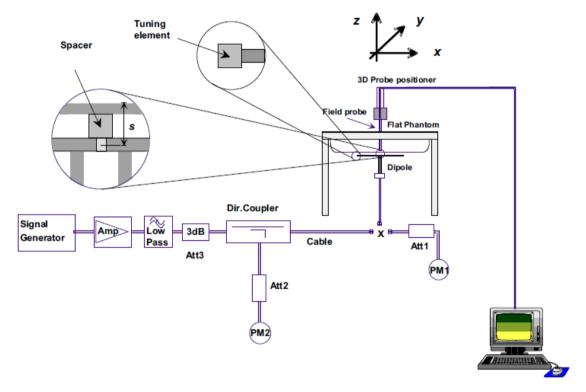


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5.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-3. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-3. the microwave circuit arrangement used for SAR system check



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5.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
 - a) There is no physical damage on the dipole;
 - b) System check with specific dipole is within 10% of calibrated value;
 - c) Return-loss is within 10% of calibrated measurement;
 - d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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5.2.2 **Summary System Validation Result(s)**

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	Devi	ation ±10%)	Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg) g(W/kg)			
D2450V2	Head	12.70	5.76	50.80	23.04	52.20	24.50	-2.68%	-5.96%	22.6	2023/3/10
Valid	dation Kit	Measured SAR 100mW	SAR	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	Deviation		Vithin ±10%) Liquid Temp.	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)	
	Head(5.25GHz)	7.58	2.15	75.80	21.50	78.00	21.80	-2.82%	-1.38%	22.1	2023/3/11
D5GHzV2	Head(5.6GHz)	7.72	2.16	77.20	21.60	79.90	22.50	-3.38%	-4.00%	22.1	2023/3/13
	Head(5.75GHz)	7.94	2.26	79.40	22.60	76.40	21.20	3.93%	6.60%	22.1	2023/3/15

Table 3: SAR System Check Result

5.2.3 Detailed System Check Results

Please see the Appendix A





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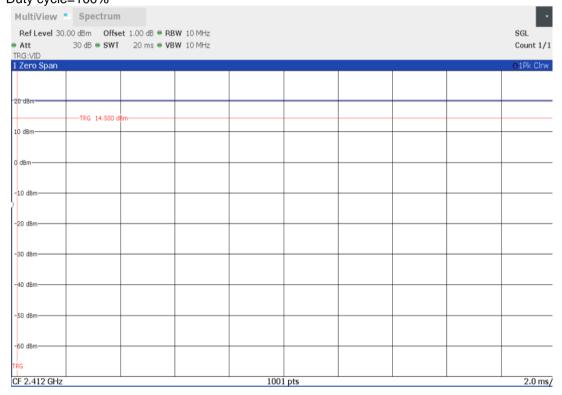
6 Test results and Measurement Data

6.1 Operation Configurations

6.1.1 WiFi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

2.4G WIFI Duty cycle=100%



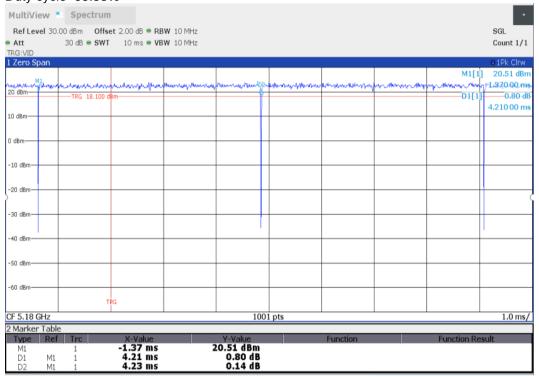




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5G WIFI 802.11a Duty cycle=99.53%





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6.1.1.1 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . 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 in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

6.1.1.2 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

6.1.1.3 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

 When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.



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2). When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - replace "initial test configuration" with "all tested higher output power configurations"

6.1.1.4 2.4 GHz SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

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 (section 5.3, including sub-sections). 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.



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6.1.1.5 WiFi 5G SAR Test Procedures

6.1.1.5.1 U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 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.
- 2) 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.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

6.1.1.5.2 U-NII-2C and 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, all channels that operate at 5.60 - 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. 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. 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. 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.



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6.1.1.5.3 OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - The channel closest to mid-band frequency is selected for SAR measurement.
 - For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

6.1.1.5.4 SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. 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.



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6.1.2 DUT Antenna Locations(Back Veiw)

The DUT Antenna Locations (Back View) can refer to Appendix D.

Note:

Per KDB 616217, the diagonal length is > 200mm, the device is considered a "tablet" device and needed to test 0mm 1-g body SAR.



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6.1.3 EUT side for SAR Testing

Stand-alone SAR test evaluation

1) Per FCC KDB 447498D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

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

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)-(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

Standalone SAR exclusion calculation

Ctaridation of the	CACIUSION CAICUIALION						
	Wireless Interface	BT	BT	2.4GHz WLAN	2.4GHz WLAN	5GHz WLAN	5GHz WLAN
	Wil cless interface	Chain0	Chain1	Chain0	Chain1	Chain1	ANT 2
Exposure Position	Calculated Frequency	2480MHz	2480MHz	2462MHz	2462MHz	5825MHz	5825MHz
	Maximum pow er (dBm)	16	16	19.5	19.5	18.5	16
	Maximum rated pow er(mW)	40.0	40.0	89.0	89.0	71.0	40.0
	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0	5.0
Back side	exclusion threshold	12.6	12.6	27.9	27.9	34.3	19.3
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes
	Separation distance(mm)	13.5	5.0	13.5	5.0	13.5	63.0
Left side	exclusion threshold	4.7	12.6	10.3	27.9	12.7	192.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	No
	Separation distance(mm)	227.8	254.0	227.8	254.0	227.8	167.5
Right side	exclusion threshold	1873.0	2135.0	1874.0	2136.0	1840.0	1237.0
	Testing required?	No	No	No	No	No	No
	Separation distance(mm)	16.6	55.9	16.6	55.9	16.6	5.0
Top side	exclusion threshold	3.8	154.0	8.4	155.0	10.3	19.3
	Testing required?	Yes	No	Yes	No	Yes	Yes
Bottom side	Separation distance(mm)	131.3	60.6	131.3	60.6	131.3	165.2
	exclusion threshold	909.0	201.0	909.0	201.0	875.0	1214.0
	Testing required?	No	No	No	No	No	No

According to the table above, the standalone test configurations required for this device are as below:

According to the table above, the standardie test configurations required for this device are as below.								
Test configurations	WiFi 2.4G Chain0	WiFi 2.4G Chain1	WiFi 2.4G MIMO	WiFi 5G Chain0	WiFi 5G Chain1	WiFi 5G MIMO	BT Chain0	BT Chain1
Back side	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Left side	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Right side	No	No	No	No	No	No	No	No
Top side	Yes	No	Yes	Yes	Yes	Yes	Yes	No
Bottom side	No	No	No	No	No	No	No	No

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

1) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]- $[\sqrt{f(GHz)/x}]$ W/kg for test separation distances \leq 50 mm, where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

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



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exclusion

2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distance is > 50 mm.

2) 0.4 W	Exposure	f		Pmax	101 10 g C		separation of		on distance is	3 > 30 11111		timated SAR	(W/Kg)	
Band	Condition	(GHz)	(dBm)	(mw)	Back Side	Left side	Right side	Top side	Bottom side	Back Side	Left side	Right side	Top side	Bottom side
WLAN2.4G Chain0	Body 0mm	2.472	19.5	89.13	5	13.5	227.8	16.6	131.3	Measure	Measure	0.40	Measure	0.40
WLAN2.4G Chain1	Body 0mm	2.472	19.5	89.13	5	5	254	55.9	60.6	Measure	Measure	0.40	0.40	0.40
WLAN2.4G MIMO	Body 0mm	2.472	22.5	177.8 3	5	5	227.8	16.6	60.6	Measure	Measure	0.40	Measure	0.40
WLAN5.2G Chain0	Body 0mm	5.240	18.5	70.79	5	13.5	227.8	16.6	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.2G Chain1	Body 0mm	5.240	16.0	39.81	5	63	167.5	5	165.2	Measure	0.40	0.40	Measure	0.40
WLAN5.2G MIMO	Body 0mm	5.240	20.5	112.2	5	13.5	167.5	5	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.3G Chain0	Body 0mm	5.320	18.5	70.79	5	13.5	227.8	16.6	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.3G Chain1	Body 0mm	5.320	16.0	39.81	5	63	167.5	5	165.2	Measure	0.40	0.40	Measure	0.40
WLAN5.3G MIMO	Body 0mm	5.320	20.5	112.2	5	13.5	167.5	5	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.5G Chain0	Body 0mm	5.720	18.5	70.79	5	13.5	227.8	16.6	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.5G Chain1	Body 0mm	5.720	16.0	39.81	5	63	167.5	5	165.2	Measure	0.40	0.40	Measure	0.40
WLAN5.5G MIMO	Body 0mm	5.720	20.5	112.2	5	13.5	167.5	5	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.8G Chain0	Body 0mm	5.805	18.5	70.79	5	13.5	227.8	16.6	131.3	Measure	Measure	0.40	Measure	0.40
WLAN5.8G Chain1	Body 0mm	5.805	16.0	39.81	5	63	167.5	5	165.2	Measure	0.40	0.40	Measure	0.40
WLAN5.8G MIMO	Body 0mm	5.805	20.5	112.2	5	13.5	167.5	5	131.3	Measure	Measure	0.40	Measure	0.40
BT Chain0	Body 0mm	2.480	16.0	39.81	5	13.5	227.8	16.6	131.3	Measure	Measure	0.40	Measure	0.40
BT Chain1	Body 0mm	2.480	16.0	39.81	5	5	254	55.9	60.6	Measure	Measure	0.40	0.40	0.40

Table 4: Estimated SAR calculation for WiFi and BT Note:

1) * - maximum possible output power declared by manufacturer



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6.2 Measurement of RF conducted Power

6.2.1 **Conducted Power of WIFI and BT**

			WIFI	2.4G Sensor	Off				
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	1	2412		18.63	19.50	18.58	19.50	21.62	22.50
802.11b	6	2437	1	18.66	19.50	18.63	19.50	21.66	22.50
	11	2462		18.59	19.50	18.59	19.50	21.60	22.50
	1	2412		18.59	19.50	18.52	19.00	21.57	22.50
802.11g	6	2437	6	18.53	19.50	18.56	19.00	21.56	22.50
	11	2462		18.42	19.50	18.49	19.00	21.47	22.50
	1	2412		18.56	19.50	18.51	19.50	21.55	22.50
802.11n HT20	6	2437	6.5	18.47	19.50	18.38	19.50	21.44	22.50
20	11	2462		18.37	19.50	18.35	19.50	21.37	22.50
	3	2422		17.79	18.50	17.55	18.50	20.68	21.50
802.11n HT40	6	2437	13.5	17.49	18.50	17.42	18.50	20.47	21.50
	9	2452		17.39	18.50	17.44	18.50	20.43	21.50
	1	2412		18.54	19.50	18.69	19.50	21.63	22.50
802.11ax HT20	6	2437	MCS0	18.43	19.50	18.52	19.50	21.49	22.50
20	11	2462		18.34	19.50	18.45	19.50	21.41	22.50
	3	2422		17.61	18.50	17.48	18.50	20.56	21.50
802.11ax HT40	6	2437	MCS0	17.53	18.50	17.41	18.50	20.48	21.50
	9	2452		17.45	18.50	17.61	18.50	20.54	21.50

			WIF	FI 2.4G Senso	r On				
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	1	2412		15.67	16.50	18.58	19.50	20.37	21.00
802.11b	6	2437	1	15.69	16.50	18.63	19.50	20.41	21.00
	11	2462		15.59	16.50	18.59	19.50	20.35	21.00
	1	2412		15.49	16.50	18.52	19.00	20.27	21.00
802.11g	6	2437	6	15.51	16.50	18.56	19.00	20.31	21.00
	11	2462		15.45	16.50	18.49	19.00	20.24	21.00
	1	2412		15.45	16.00	18.51	19.50	20.25	21.00
802.11n HT20	6	2437	6.5	15.37	16.00	18.38	19.50	20.14	21.00
20	11	2462		15.29	16.00	18.35	19.50	20.09	21.00
	3	2422		15.54	16.50	17.55	18.50	19.67	20.50
802.11n HT40	6	2437	13.5	15.47	16.50	17.42	18.50	19.56	20.50
	9	2452		15.39	16.50	17.44	18.50	19.55	20.50
	1	2412	MCS0	15.42	16.00	18.69	19.50	20.37	21.00



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802.11ax	6	2437		15.39	16.00	18.52	19.50	20.24	21.00
HT20	11	2462		15.24	16.00	18.45	19.50	20.15	21.00
	3	2422		15.57	16.50	17.48	18.50	19.64	20.50
802.11ax HT40	6	2437	MCS0	15.45	16.50	17.41	18.50	19.55	20.50
	9	2452		15.36	16.50	17.61	18.50	19.64	20.50

			WIFI 2.40	Sensor Off F	or DBS				
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	1	2412		18.14	19.00	18.06	19.00	21.11	22.00
802.11b	6	2437	1	18.14	19.00	18.08	19.00	21.12	22.00
	11	2462		18.10	19.00	18.09	19.00	21.11	22.00
	1	2412		18.10	19.00	18.07	19.00	21.10	22.00
802.11g	6	2437	6	18.05	19.00	18.06	19.00	21.07	22.00
	11	2462		17.94	19.00	17.96	19.00	20.96	22.00
	1	2412		18.04	19.00	18.05	19.00	21.06	22.00
802.11n HT20	6	2437	6.5	17.82	19.00	18.01	19.00	20.93	22.00
11120	11	2462		17.76	19.00	17.91	19.00	20.85	22.00
	3	2422		17.79	18.50	17.55	18.50	20.68	21.50
802.11n HT40	6	2437	13.5	17.49	18.50	17.42	18.50	20.47	21.50
11110	9	2452		17.39	18.50	17.44	18.50	20.43	21.50
	1	2412		18.10	19.00	18.22	19.00	21.17	22.00
802.11ax HT20	6	2437	MCS0	17.79	19.00	18.03	19.00	20.92	22.00
11120	11	2462		17.77	19.00	17.92	18.50	20.86	22.00
	3	2422		17.61	18.50	17.48	18.50	20.56	21.50
802.11ax HT40	6	2437	MCS0	17.53	18.50	17.41	18.50	20.48	21.50
	9	2452		17.45	18.50	17.61	18.50	20.54	21.50

			WIFI 2.4	4GSensor On	For DBS				
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	1	2412		15.17	16.00	18.06	19.00	19.86	20.50
802.11b	6	2437	1	15.20	16.00	18.08	19.00	19.88	20.50
	11	2462		15.05	16.00	18.09	19.00	19.84	20.50
	1	2412		15.04	16.00	18.07	19.00	19.82	20.50
802.11g	6	2437	6	15.09	16.00	18.06	19.00	19.83	20.50
	11	2462		15.10	16.00	17.96	19.00	19.77	20.50
	1	2412		15.09	16.00	18.05	19.00	19.83	20.50
802.11n HT20	6	2437	6.5	14.96	16.00	18.01	19.00	19.76	20.50
	11	2462		14.86	16.00	17.91	19.00	19.66	20.50
	3	2422	13.5	15.06	16.00	17.55	18.50	19.49	20.50



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802.11n	6	2437		15.10	16.00	17.42	18.50	19.42	20.50
HT40	9	2452		14.95	16.00	17.44	18.50	19.38	20.50
	1	2412		15.05	16.00	18.22	19.00	19.93	20.50
802.11ax HT20	802.11ax HT20 6	2437	MCS0	15.03	16.00	18.03	19.00	19.79	20.50
0	11	2462		14.82	16.00	17.92	18.50	19.65	20.50
	3	2422		15.04	16.00	17.48	18.50	19.44	20.50
802.11ax HT40	6	2437	MCS0	15.00	16.00	17.41	18.50	19.38	20.50
	9	2452		14.95	16.00	17.61	18.50	19.49	20.50

				WIFI 5G Se	nsor Off					
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		17.61	18.50	15.18	16.00	19.57	20.50
	U-NII-1	40	5200		17.65	18.50	15.04	16.00	19.55	20.50
	0-1111-1	44	5220		17.65	18.50	14.99	16.00	19.53	20.50
		48	5240		17.42	18.50	15.03	16.00	19.40	20.50
		52	5260		17.55	18.50	15.10	16.00	19.51	20.50
	U-NII-2A	56	5280		17.48	18.50	15.06	16.00	19.45	20.50
	0-1111-2A	60	5300		17.66	18.50	15.12	16.00	19.58	20.50
		64	5320		17.41	18.50	14.87	16.00	19.33	20.50
		100	5500		17.57	18.50	15.16	16.00	19.54	20.50
		104	5520		17.44	18.50	14.96	16.00	19.38	20.50
		108	5540		17.47	18.50	14.99	16.00	19.41	20.50
		112	5560	6	17.30	18.50	15.15	16.00	19.37	20.50
802.11a		116	5580		17.59	18.50	15.17	16.00	19.56	20.50
	U-NII-2C	120	5600		17.55	18.50	15.07	16.00	19.49	20.50
	U-NII-2C	124	5620		17.35	18.50	14.93	16.00	19.32	20.50
	- -	128	5640		17.51	18.50	15.05	16.00	19.46	20.50
		132	5660		17.48	18.50	15.01	16.00	19.43	20.50
		136	5680		17.56	18.50	14.98	16.00	19.47	20.50
		140	5700		17.52	18.50	14.95	16.00	19.43	20.50
		144	5720		17.41	18.50	14.93	16.00	19.35	20.50
		149	5745		17.58	18.50	15.08	16.00	19.52	20.50
		153	5765		17.60	18.50	15.04	16.00	19.52	20.50
	U-NII-3	157	5785		17.61	18.50	15.34	16.00	19.63	20.50
		161	5805		17.59	18.50	15.01	16.00	19.50	20.50
		165	5825		17.60	18.50	15.29	16.00	19.61	20.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-	U-NII-1	36	5180	MCS0	17.20	18.00	14.49	15.50	19.06	20.00
HT20	O WIII 1	40	5200	IVIOOO	17.17	18.00	14.56	15.50	19.07	20.00



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Part			44	5220		17.08	18.00	14.45	15.50	18.97	20.00
			48	5240		17.08	18.00	14.44	15.50	18.97	20.00
Part			52	5260		17.14	18.00	14.38	15.50	18.99	20.00
Figure F			56	5280		17.16	18.00	14.53	15.50	19.05	20.00
Part		U-NII-2A	60	5300		17.17	18.00	14.62	15.50	19.09	20.00
			64	5320		17.10	18.00	14.40	15.50	18.97	20.00
			100	5500		17.05	18.00	14.45	15.50	18.95	20.00
			104	5520		17.03	18.00	14.41	15.50	18.92	20.00
			108	5540		17.08	18.00	14.58	15.50	19.02	20.00
N-NII-2C			112	5560		17.03	18.00	14.57	15.50	18.98	20.00
U-NII-2C 124 5620 17.17 18.00 14.40 15.50 19.01 20.00 12.80 5640 132 5660 136 5680 14.00 14.00 14.42 15.50 18.99 20.00 17.14 18.00 14.42 15.50 18.99 20.00 17.14 18.00 14.42 15.50 18.99 20.00 17.14 18.00 14.43 15.50 18.99 20.00 17.07 18.00 14.43 15.50 18.99 20.00 17.07 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.45 15.50 18.99 20.00 17.08 18.00 14.45 15.50 18.99 20.00 17.08 18.00 14.45 15.50 18.99 20.00 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.59 15.50 18.91 20.00 17.06 18.00 14.59 15.50 18.91 20.00 17.06 18.00 14.59 15.50 18.91 20.00 17.04 18.00 14.55 15.50 18.91 20.00 17.04 18.00 14.55 15.50 19.11 20.00 17.04 18.00 14.50 15.50 19.10 20.00 17.01 18.00 14.58 15.50 19.00 20.00 17.01 18.00 14.45 15.50 18.93 20.00 17.05 18.00 14.45 15.50 19.00 20.00 17.05 18.00 14.45 15.50 19.00 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 18.93 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 19.03 20.00 17.05 18.00 14.45 15.50 18.93 20.00 17.05 18.00 14.45 15.50 18.93 20.00 17.05 18.00 14.45 15.50 18.93 20.00 17.05 18.00 14.45 15.50 18.93 20.00 17.05 18.			116	5580		17.08	18.00	14.56	15.50	19.01	20.00
124 5620 17.17 18.00 14.40 15.50 18.91 20.00 17.12 18.00 14.53 15.50 18.98 20.00 17.12 18.00 14.42 15.50 18.99 20.00 17.14 18.00 14.43 15.50 18.99 20.00 17.07 18.00 14.41 15.50 18.99 20.00 17.07 18.00 14.43 15.50 18.99 20.00 17.07 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.43 15.50 18.99 20.00 17.08 18.00 14.57 15.50 18.99 20.00 16.50 16.50 16.50 18.90 20.00 16.50 16.50 18.90 20.00 16.50 16.50 18.90 20.00 16.50 16.50 18.90 20.00 16.50 16.50 18.90 20.00 14.55 15.50 18.91 20.00 16.50 16.50 18.90 20.00 14.55 15.50 18.91 20.00 16.50 16.50 18.90 20.00 16.50 16.50 16.50 18.90 20.00 16.50			120	5600		17.15	18.00	14.56	15.50	19.06	20.00
132 5660 17.12 18.00 14.42 15.50 18.99 20.00 14.00		U-NII-2C	124	5620		17.17	18.00	14.40	15.50	19.01	20.00
136 5680 140 5700 17.14 18.00 14.39 15.50 18.99 20.00 14.44 5720 17.07 18.00 14.41 15.50 18.95 20.00 17.07 18.00 14.41 15.50 18.96 20.00 17.05 18.00 14.43 15.50 18.96 20.00 17.05 18.00 14.43 15.50 18.99 20.00 17.05 18.00 14.57 15.50 18.99 20.00 17.05 18.00 14.57 15.50 18.99 20.00 17.06 18.00 14.57 15.50 18.99 20.00 18.00 14.57 15.50 18.99 20.00 18.00 14.53 15.50 18.91 20.00 16.50 16.50 16.50 17.06 18.00 14.55 15.50 18.91 20.00 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.55 15.50 18.92 20.00 17.06 18.00 14.55 15.50 18.92 20.00 17.06 18.00 14.56 15.50 19.11 20.00 17.24 18.00 14.56 15.50 19.11 20.00 17.04 18.00 14.56 15.50 19.11 20.00 17.07 18.00 14.56 15.50 19.10 20.00 17.07 18.00 14.56 15.50 18.93 20.00 17.03 18.00 14.42 15.50 18.93 20.00 17.05 18.00 14.48 15.50 19.05 20.00 17.05 18.00 14.45 15.50 19.05 20.00 17.07 18.00 14.45 15.50 19.05 20.00 17.07 18.00 14.45 15.50 19.05 20.00 17.07 18.00 14.45 15.50 19.05 20.00 17.07 18.00 14.45 15.50 19.05 20.00 17.07 18.00 14.45 15.50 19.05 20.00 17.07 18.00 14.45 15.50 19.03 20.00 17.07 18.00 14.45 15.50 19.03 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 18.00 14.45 15.50 18.03 20.			128	5640		17.05	18.00	14.53	15.50	18.98	20.00
140 5700 144 5720 149 5745 153 5765 157 5785 161 5805 165 5825 17.06 18.00 14.41 15.50 18.96 20.00 17.08 18.00 14.57 15.50 18.99 20.00 17.08 18.00 14.57 15.50 18.99 20.00 17.08 18.00 14.53 15.50 15.50 18.91 20.00 16.99 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.59 15.50 17.06 18.00 14.55 15.50 18.91 20.00 17.06 18.00 14.55 15.50 18.91 20.00 17.06 18.00 14.55 15.50 18.92 20.00 17.06 18.00 14.55 15.50 18.92 20.00 17.07 18.00 14.56 17.08 18.00 14.45 15.50 15.50 18.92 20.00 18.92 20.00 18.92 20.00 18.92 20.00 18.93 20.00 18.94 20.00 18.95 20.00 18.96 20.00 18.90 14.55 15.50 18.91 20.00 18.90 14.55 15.50 18.91 20.00 18.90 14.55 18.90 14.55 18.90 14.55 18.90 14.56 18.90 14.50 18.90 18.90 14.50 18.90 18.90 18.90 14.50			132	5660		17.12	18.00	14.42	15.50	18.99	20.00
144 5720 14.9 5745 17.08 18.00 14.43 15.50 18.96 20.00 17.05 18.00 14.57 15.50 18.99 20.00 17.08 18.00 14.57 15.50 18.99 20.00 17.08 18.00 14.53 15.50 19.00 20.00 16.50 165 5825 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.45 15.50 18.91 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.35 15.50 18.92 20.00 17.06 18.00 14.56 15.50 18.92 20.00 17.06 18.00 14.56 15.50 19.11 20.00 17.20 18.00 14.56 15.50 19.11 20.00 17.07 18.00 14.56 15.50 19.10 20.00 17.07 18.00 14.42 15.50 19.00 20.00 17.03 18.00 14.42 15.50 19.00 20.00 17.03 18.00 14.45 15.50 19.00 20.00 17.09 18.00 14.45 15.50 19.00 20.00 17.09 18.00 14.45 15.50 19.03 20.00 17.09 18.00 14.45 15.50 19.03 20.00 17.07 18.00 14.45 15.50 19.03 20.00 17.07 18.00 14.45 15.50 19.03 20.00 17.07 18.00 14.45 15.50 19.01 20.00 17.07 18.00 14.45 15.50 19.01 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 14.05 14.0			136	5680		17.14	18.00	14.39	15.50	18.99	20.00
Hart 149 5745 17.05 18.00 14.57 15.50 18.99 20.00			140	5700		17.07	18.00	14.41	15.50	18.95	20.00
U-NII-3			144	5720		17.08	18.00	14.43	15.50	18.96	20.00
U-NII-3			149	5745		17.05	18.00	14.57	15.50	18.99	20.00
Table Tabl			153	5765		17.08	18.00	14.53	15.50	19.00	20.00
Tune Frequency(MHz) Data Average Power (dBm) Tune Power (d		U-NII-3	157	5785		16.99	18.00	14.45	15.50	18.91	20.00
Tune Power (dBm) Tune Power			161	5805		17.06	18.00	14.59	15.50	19.01	20.00
The control of the			165	5825		17.06	18.00	14.35	15.50	18.92	20.00
BOZ.11n-HT40	5GHz	mode	Channel	Frequency(MHz)		Power		Power		Power	
Hard		LI NIII 1	38	5190		17.24	18.00	14.56	15.50	19.11	20.00
No. No.		0-1111-1	46	5230		17.20	18.00	14.60	15.50	19.10	20.00
B02.11n-HT40		I I-NIII-2Δ	54	5270		17.07	18.00	14.52	15.50	18.99	20.00
Name		0-1111-2A	62	5310		17.11	18.00	14.49	15.50	19.00	20.00
HT40 HT40 HT40 HT40 HT40 HT40 HT40 HT40			102	5510		17.03	18.00	14.42	15.50	18.93	20.00
1140			110	5550	MCSO	17.28	18.00	14.58	15.50	19.15	20.00
126 5630 17.18 18.00 14.48 15.50 19.05 20.00 17.09 18.00 14.61 15.50 19.03 20.00 17.01 18.00 14.45 15.50 19.03 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.57 15.50 19.01 20.00 17.07 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 14.86 15.50 14.86 15.50 14.86 15.50 14.86 15.50 14.86 15.50 14.86	HT40	H-NIII-2C	118	5590	IVICSO	17.05	18.00	14.58	15.50	19.00	20.00
142 5710 17.01 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.45 15.50 18.93 20.00 17.07 18.00 14.57 15.50 19.01 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.38 15.50 18.89 20.00 16.99 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 17.17 18.00 14.86 15.50 19.18 20.00 14.86 15.50 19.18 14.86 15.50 19.18 14.86 15.50 19.18 14.86 15.50 19.18 14.86 15.50 19.18 14.86 15.50 19.18 14.86 15.50 19.18 14.86		0 1111 20	126	5630		17.18	18.00	14.48	15.50	19.05	20.00
U-NII-3 151 5755 17.07 18.00 14.57 15.50 19.01 20.00 5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Average Power (dBm) Tune up 17.17 18.00 14.86 15.50 19.18 20.00			134	5670		17.09	18.00	14.61	15.50	19.03	20.00
U-NII-3 159 5795 16.99 18.00 14.38 15.50 18.89 20.00			142	5710		17.01	18.00	14.45	15.50	18.93	20.00
5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Average Power (dBm) Tune up Average Power (dBm)		11-011-3	151	5755		17.07	18.00	14.57	15.50	19.01	20.00
5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Power (dBm) Tuffe up Power (dBm)		0 1111 3	159	5795		16.99	18.00	14.38	15.50	18.89	20.00
OUZ. 1 AUG- U-NII-1 MCSO	5GHz	mode	Channel	Frequency(MHz)		Power		Power		Power	
U-NII-1	802.11ac-	11 NIII 4	36	5180	MCCO	17.17	18.00	14.86	15.50	19.18	20.00
		U-MII-1	40	5200	IVICSU	17.06	18.00	14.71	15.50	19.05	20.00



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U-NII-2A 52 5260 18.00 14.72 15.50 18.96 20.0 17.31 18.00 14.92 15.50 19.29 20.0 17.31 18.00 14.92 15.50 19.29 20.0 17.10 18.00 14.89 15.50 19.19 20.0 17.10 18.00 14.89 15.50 19.18 20.0 17.10 18.00 14.89 15.50 19.18 20.0 17.10 18.00 14.89 15.50 19.14 20.0 17.10 18.00 14.89 15.50 19.14 20.0 17.10 18.00 14.89 15.50 19.14 20.0 17.15 18.00 14.82 15.50 19.14 20.0 17.16 18.00 14.82 15.50 19.22 20.0 17.05 18.00 14.66 15.50 19.03 20.0 17.05 18.00 14.66 15.50 19.03 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.85 15.50 19.20 20.0 17.05 18.00 14.85 15.50 19.20 20.0 17.05 18.00 14.85 15.50 19.20 20.0 17.05 18.00 14.85 15.50 19.20 20.0 17.05 18.00 14.85 15.50 19.20 20.0 17.05 18.00 14.85 15.50 19.05 20.0 17.05 18.00 14.87 15.50 19.05 20.0 17.05 18.00 14.87 15.50 19.05 20.0 17.05 18.00 14.87 15.50 19.05 20.0 17.05 18.00 14.87 15.50 19.05 20.0 17.05 18.00 14.88 15.50 19.05 20.0 17.05 18.00 14.88 15.50 19.05 20.0 17.05 18.00 14.88 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.89 15.50 19.05 20.0 17.05 18.00 14.74 15.50 19.05 20.0 17.05 18.00 14.74 15.50 19.05 20.0 17.05 18.00 14.74 15.50 19.05 20.0 17.05 18.00 14.75 15.50 19.05 20.0 17.05 18.00 14.74 15.50 19.05 20.0 17.05 18.00 14.75 15.50 19.05 20.0 17.05 18.00 14.75 15.50 19.05 20.0 17.05			44	5220		17.08	18.00	14.65	15.50	19.04	20.00
U-NII-2A			48	5240		17.04	18.00	14.72	15.50	19.04	20.00
U-NII-2A 60 5300 17.13 18.00 14.90 15.50 19.17 20.0 17.14 18.00 14.64 15.50 19.08 20.0 17.14 18.00 14.89 15.50 19.08 20.0 17.02 18.00 14.89 15.50 19.03 20.0 17.02 18.00 14.82 15.50 19.03 20.0 17.02 18.00 14.82 15.50 19.03 20.0 17.05 18.00 14.82 15.50 19.03 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.66 15.50 19.02 20.0 17.05 18.00 14.67 15.50 19.02 20.0 17.07 18.00 14.67 15.50 19.02 20.0 17.07 18.00 14.67 15.50 19.02 20.0 17.07 18.00 14.67 15.50 19.05 20.0 17.07 18.00 14.48 15.50 19.05 20.0 17.02 18.00 14.48 15.50 19.05 20.0 17.02 18.00 14.48 15.50 19.05 20.0 17.05 18.00 14.48 15.50 19.05 20.0 17.05 18.00 14.48 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.68 15.50 19.05 20.0 17.05 18.00 14.69 15.50 19.05 20.0 17.05 18.00 14.69 18.00 14.69 15.50 19.05 20.0 17.05 18.00 14.69 15.50 19.05 20.0 17.05 18.00 14.69 15.50 19.05 20.0 17.05 18.00 14.60 15.50 19.05 20.0 17.05 18.00 14.60 15.50 19.05 20.0 17.05 18.00 14.60 15.50 19.05 20.0 17.05 18.00 14.60 15.50 19.05 20.0 17.05 18.00 14.60 15.50 19.05 20.0 17.05 18.00 14.60 15.50 19.10 20.0 17.05 18.00 14.60 15.50			52	5260		16.90	18.00	14.72	15.50	18.96	20.00
Figure F			56	5280		17.31	18.00	14.92	15.50	19.29	20.00
100 5500 17.10 18.00 14.89 15.50 19.14 20.0 17.02 18.00 14.71 15.50 19.03 20.0 17.02 18.00 14.71 15.50 19.03 20.0 17.02 18.00 14.71 15.50 19.03 20.0 17.02 18.00 14.62 15.50 19.03 20.0 17.04 18.00 14.62 15.50 19.03 20.0 17.05 18.00 14.62 15.50 19.07 20.0 17.05 18.00 14.63 15.50 19.07 20.0 17.05 18.00 14.63 15.50 19.07 20.0 17.05 18.00 14.63 15.50 19.07 20.0 17.05 18.00 14.63 15.50 19.02 20.0 17.05 18.00 14.63 15.50 19.02 20.0 17.07 18.00 14.63 15.50 19.02 20.0 17.07 18.00 14.63 15.50 19.02 20.0 17.07 18.00 14.63 15.50 19.02 20.0 17.07 18.00 14.67 15.50 19.05 20.0 17.07 18.00 14.67 15.50 19.05 20.0 17.02 18.00 14.63 15.50 19.05 20.0 17.02 18.00 14.64 15.50 19.05 20.0 17.05 18.00 14.64 15.50 19.05 20.0 17.05 18.00 14.64 15.50 19.05 20.0 17.05 18.00 14.64 15.50 19.05 20.0 17.05 18.00 14.62 15.50 19.05 20.0 17.05 18.00 14.62 15.50 19.05 20.0 17.05 18.00 14.62 15.50 19.05 20.0 17.05 18.00 14.62 15.50 19.05 20.0 17.05 18.00 14.62 15.50 19.06 20.0 17.05 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 17.05 18.00 14.62 15.50 19.05 20.0 17.05 18.00 14.78 15.50 19.05 20.0 17.05 18.00 14.78 15.50 19.05 20.0 17.05 18.00 14.78 15.50 19.05 20.0 17.05 18.00 14.78 15.50 19.05 20.0 17.05 18.00 14.78 15.50 19.05 20.0 17.05 18.00 14.60 14.60 15.50 19.05 20.0 17.05 18.00 14.60 14.60 15.50 19.05 20.0 17.05 18.00 14.60 14.60 15.50 19.10 20.0 17.05 18.00 14.60 15.50 19.10 20.0 17.05 18.00 14.60 15.50 19.10 20.0 17.05 18.00 14.60 15.50 19.10 20.0 17.05 18.00 14.60 15.50 19.10 20.0 17.05 18.00 14.60 15.50 1		U-NII-2A	60	5300		17.13	18.00	14.90	15.50	19.17	20.00
U-NII-2C			64	5320		17.14	18.00	14.64	15.50	19.08	20.00
U-NII-2C U-NII-3 U-N			100	5500		17.10	18.00	14.89	15.50	19.14	20.00
U-NII-2C U-NII-3 U-NII-1 U-NII-2C U-NII-3 U			104	5520		17.02	18.00	14.71	15.50	19.03	20.00
U-NII-2C 116			108	5540		17.14	18.00	14.82	15.50	19.14	20.00
U-NII-2C 120			112	5560		17.26	18.00	14.82	15.50	19.22	20.00
U-NII-2C 124 5620 17.05 18.00 14.63 15.50 19.02 20.0 17.29 18.00 14.85 15.50 19.25 20.0 17.17 18.00 14.85 15.50 19.25 20.0 17.17 18.00 14.85 15.50 19.25 20.0 17.17 18.00 14.81 15.50 19.20 20.0 17.07 18.00 14.87 15.50 19.04 20.0 16.99 18.00 14.87 15.50 19.05 20.0 17.02 18.00 14.87 15.50 19.05 20.0 17.02 18.00 14.76 15.50 19.05 20.0 17.02 18.00 14.76 15.50 19.05 20.0 17.02 18.00 14.76 15.50 19.05 20.0 17.05 18.00 14.76 15.50 19.05 20.0 17.06 18.00 14.84 15.50 19.10 20.0 17.06 18.00 14.84 15.50 19.06 20.0 16.99 18.00 14.62 15.50 19.06 20.0 16.99 18.00 14.62 15.50 18.98 20.0 17.06 18.00 14.89 15.50 19.06 20.0 17.06 18.00 14.89 15.50 19.20 20.0 17.00 18.00 14.89 15.50 19.20 20.0 17.00 18.00 14.78 15.50 19.20 20.0 17.07 18.00 14.78 15.50 19.07 20.0 17.06 18.00 14.78 15.50 19.06 20.0 17.06 18.00 14.78 15.50 19.06 20.0 17.06 18.00 14.89 15.50 19.07 20.0 17.06 18.00 14.81 15.50 19.07 20.0 17.07 18.00 14.81 15.50 19.07 20.0 17.07 18.00 14.81 15.50 19.07 20.0 17.07 18.00 14.81 15.50 19.07 20.0 17.07 18.00 14.81 15.50 19.10 20.0 17.10 18.00 14.81 15.50 19.12 20.0 17.10 18.00 14.85 15.50 19.12 20.0 17.07 18.00 14.85 15.50 19.12 20.0 17.07 18.00 14.85 15.50 19.13 20.0 17.07 18.00 14.85 15.50 19.13 20.0 17.07 18.00 14.85 15.50 19.13 20.0 17.07 18.00 14.85 15.50 19.13 20.0 17.07 18.00 14.85 15.50 19.13 20.0 17.07 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0			116	5580		17.05	18.00	14.66	15.50	19.03	20.00
124 5620 17.05 18.00 14.63 15.50 19.02 20.0 17.29 18.00 14.63 15.50 19.25 20.0 17.17 18.00 14.85 15.50 19.25 20.0 17.17 18.00 14.85 15.50 19.25 20.0 17.17 18.00 14.67 15.50 19.04 20.0 14.07 15.50 19.05 20.0 14.07 15.50 19.05 20.0 14.07 15.50 19.05 20.0 14.07 15.50 19.05 20.0 14.07 15.50 19.05 20.0 17.02 18.00 14.67 15.50 19.05 20.0 17.02 18.00 14.67 15.50 19.05 20.0 17.02 18.00 14.67 15.50 19.05 20.0 17.05 18.00 14.84 15.50 19.16 20.0 17.05 18.00 14.68 15.50 19.16 20.0 17.06 18.00 14.68 15.50 19.05 20.0 16.99 18.00 14.68 15.50 19.06 20.0 16.99 18.00 14.67 15.50 19.06 20.0 16.99 18.00 14.67 15.50 19.06 20.0 16.99 18.00 14.68 15.50 19.06 20.0 16.99 18.00 14.68 15.50 19.06 20.0 16.99 18.00 14.69 15.50 19.02 20.0 17.10 18.00 14.89 15.50 19.02 20.0 17.07 18.00 14.74 15.50 19.07 20.0 17.07 18.00 14.74 15.50 19.07 20.0 17.06 18.00 14.63 15.50 19.06 20.0 17.06 18.00 14.63 15.50 19.10 20.0 17.06 18.00 14.68 15.50 19.10 20.0 17.06 18.00 14.89 15.50 19.06 20.0 17.09 18.00 14.89 15.50 19.12 20.0 17.09 18.00 14.89 15.50 19.12 20.0 17.19 18.00 14.89 15.50 19.12 20.0 17.19 18.00 14.89 15.50 19.12 20.0 17.19 18.00 14.89 15.50 19.12 20.0 17.19 18.00 14.89 15.50 19.13 20.0 17.19 18.00 14.89 15.50 19.13 20.0 17.19 18.00 14.89 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.0 17.19 18.00 14.85 15.50 19.13 20.			120	5600		17.11	18.00	14.66	15.50	19.07	20.00
132 5660 17.17 18.00 14.91 15.50 19.20 20.0 136 5680 14.00 5700 16.99 18.00 14.67 15.50 19.05 20.0 144 5720 17.02 18.00 14.76 15.50 19.05 20.0 149 5745 153 5765 17.15 18.00 14.76 15.50 19.05 20.0 153 5765 17.15 18.00 14.84 15.50 19.19 20.0 161 5805 17.01 18.00 14.68 15.50 19.01 20.0 17.01 18.00 14.68 15.50 19.01 20.0 17.01 18.00 14.62 15.50 19.06 20.0 169 18.00 14.74 15.50 19.06 20.0 169 18.00 14.62 15.50 18.98 20.0 169 18.00 14.89 15.50 19.22 20.0 17.01 18.00 14.89 15.50 19.22 20.0 17.02 18.00 14.73 15.50 19.02 20.0 17.03 18.00 14.81 15.50 19.07 20.0 17.04 18.00 14.81 15.50 19.07 20.0 17.05 18.00 14.81 15.50 19.10 20.0 17.10 18.00 14.81 15.50 19.10 20.0 17.10 18.00 14.81 15.50 19.10 20.0 17.11 18.00 14.81 15.50 19.12 20.0 17.12 18.00 14.83 15.50 19.12 20.0 17.13 18.00 14.85 15.50 19.12 20.0 17.14 18.00 14.85 15.50 19.12 20.0 17.15 18.00 14.85 15.50 19.12 20.0 17.01 18.00 14.85 15.50 19.12 20.0 17.02 18.00 14.85 15.50 19.12 20.0 17.03 18.00 14.85 15.50 19.13 20.0 17.04 18.00 14.85 15.50 19.12 20.0 17.05 18.90 14.85 15.50 19.12 20.0 17.01 18.00 14.85 15.50 19.12 20.0 17.02 18.00 14.85 15.50 19.13 20.0 17.03 18.00 14.85 15.50 19.13 20.0 17.04 18.00 14.85 15.50 19.13 20.0 17.05 18.90 14.80 15.50 19.13 20.0 17.01 18.00 14.85 15.50 19.13 20.0 17.02 18.00 14.85 15.50 19.13 20.0 17.03 18.00 14.85 15.50 19.13 20.0 17.04 18.00 14.85 15.50 19.13 20.0 17.05 18.90 14.80 14.85 15.50 19.13 20.0 17.01 18.00 14.85 15.50 19.13 20.0 18.01 14.85 15.50 1		U-NII-2C	124	5620		17.05	18.00	14.63	15.50	19.02	20.00
136 5680 17.07 18.00 14.67 15.50 19.04 20.0 14.00 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.05 20.0 14.47 15.50 19.16 20.0 14.47 15.50 19.16 20.0 14.48 15.50 19.16 20.0 14.48 15.50 19.01 20.0 14.60 14.62 15.50 19.01 20.0 14.60 14.62 15.50 19.06 20.0 14.60 14.62 15.50 19.06 20.0 14.60 14.62 15.50 19.06 20.0 14.60			128	5640		17.29	18.00	14.85	15.50	19.25	20.00
140 5700 16.99 18.00 14.83 15.50 19.05 20.0 17.02 18.00 14.83 15.50 19.05 20.0 17.02 18.00 14.76 15.50 19.05 20.0 17.02 18.00 14.76 15.50 19.05 20.0 17.05 17.15 18.00 14.84 15.50 19.16 20.0 17.06 18.00 14.84 15.50 19.16 20.0 17.06 18.00 14.68 15.50 19.01 20.0 17.06 18.00 14.68 15.50 19.01 20.0 17.06 18.00 14.74 15.50 19.06 20.0 17.06 18.00 14.74 15.50 19.06 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 19.06 20.0 17.06 18.00 14.74 15.50 19.06 20.0 17.00 18.00 14.78 15.50 19.22 20.0 17.00 18.00 14.78 15.50 19.10 20.0 17.06 18.00 14.73 15.50 19.06 20.0 17.06 18.00 14.73 15.50 19.06 20.0 17.06 18.00 14.81 15.50 19.10 20.0 17.06 18.00 14.81 15.50 19.12 20.0 17.19 18.00 14.81 15.50 19.12 20.0 17.19 18.00 14.81 15.50 19.12 20.0 17.19 18.00 14.81 15.50 19.12 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 19.13 20.0 17.00 18.00 14.85 15.50 18.93 20.0 17.00 18.00 14.85 15.50 18.93 20.0 18			132	5660		17.17	18.00	14.91	15.50	19.20	20.00
144 5720 17.02 18.00 14.76 15.50 19.05 20.0 17.15 18.00 14.93 15.50 19.19 20.0 17.15 18.00 14.93 15.50 19.19 20.0 17.15 18.00 14.84 15.50 19.16 20.0 17.06 18.00 14.84 15.50 19.01 20.0 17.06 18.00 14.68 15.50 19.01 20.0 17.06 18.00 14.74 15.50 19.06 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 19.06 20.0 16.99 18.00 14.89 15.50 19.22 20.0 17.10 18.00 14.78 15.50 19.22 20.0 17.10 18.00 14.78 15.50 19.10 20.0 17.06 18.00 14.74 15.50 19.07 20.0 17.06 18.00 14.73 15.50 19.06 20.0 17.06 18.00 14.73 15.50 19.06 20.0 17.06 18.00 14.88 15.50 19.10 20.0 17.06 18.00 14.88 15.50 19.12 20.0 17.06 18.00 14.88 15.50 19.12 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.89 15.50 19.14 20.0 17.06 18.00 14.85 15.50 19.14 20.0 17.06 18.00 14.85 15.50 19.15 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.86 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 17.06 18.00 14.85 15.50 19.16 20.0 18.00 14.85 15.50 18.97 20.0 18.00 14.86 15.50 18.97 20.0 18.00 14.86 15.50 18.97 20.0 18.00 14.86 15.50 18.97 20			136	5680		17.07	18.00	14.67	15.50	19.04	20.00
149 5745 153 5765 17.15 18.00 14.93 15.50 19.19 20.0 17.15 18.00 14.84 15.50 19.16 20.0 17.01 18.00 14.68 15.50 19.01 20.0 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.69 16.90 1			140	5700		16.99	18.00	14.83	15.50	19.05	20.00
U-NII-3 153 5765 17.15 18.00 14.84 15.50 19.16 20.0 17.06 18.00 14.68 15.50 19.01 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 18.98 20.0 16.99 18.00 14.62 15.50 19.06 20.0 16.99 18.00 14.89 15.50 19.22 20.0 17.10 18.00 14.78 15.50 19.10 20.0 17.07 18.00 14.78 15.50 19.10 20.0 17.07 18.00 14.74 15.50 19.06 20.0 17.06 18.00 14.73 15.50 19.06 20.0 17.08 18.00 14.63 15.50 19.18 20.0 17.18 18.00 14.86 15.50 19.18 20.0 17.19 18.00 14.81 15.50 19.12 20.0 17.19 18.00 14.89 15.50 19.12 20.0 17.09 18.00 14.89 15.50 19.14 20.0 17.09 18.00 14.89 15.50 19.14 20.0 17.09 18.00 14.89 15.50 19.14 20.0 17.09 18.00 14.85 15.50 19.14 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.09 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 17.10 18.00 14.85 15.50 18.97 20.0 18.00 14.85 15.50 18.97 20.0 18.00 1			144	5720		17.02	18.00	14.76	15.50	19.05	20.00
U-NII-3			149	5745		17.15	18.00	14.93	15.50	19.19	20.00
161 5805 17.06 18.00 14.74 15.50 19.06 20.00			153	5765		17.15	18.00	14.84	15.50	19.16	20.00
Tune		U-NII-3	157	5785		17.01	18.00	14.68	15.50	19.01	20.00
5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Average Power (dBm) Tune up (dBm) Average Power (dBm) Tune up (dBm) <td></td> <td></td> <td>161</td> <td>5805</td> <td></td> <td>17.06</td> <td>18.00</td> <td>14.74</td> <td>15.50</td> <td>19.06</td> <td>20.00</td>			161	5805		17.06	18.00	14.74	15.50	19.06	20.00
SGHz mode Channel Frequency(MHz) Rate(Mbps) Power (dBm) UP (dBm			165	5825		16.99	18.00	14.62	15.50	18.98	20.00
U-NII-2A	5GHz	mode	Channel	Frequency(MHz)		Power		Power		Power	Tune up
802.11ac- 40 U-NII-2A 54 5270		I I NIII 1	38	5190		17.22	18.00	14.89	15.50	19.22	20.00
No.		0-1111-1	46	5230		17.10	18.00	14.78	15.50	19.10	20.00
802.11ac-40 U-NII-2C U-NII-2C U-NII-3 102 5510 16.92 18.00 14.63 15.50 19.06 20.0 17.18 18.00 14.86 15.50 19.18 20.0 17.11 18.00 14.81 15.50 19.12 20.0 17.11 18.00 14.89 15.50 19.12 20.0 17.09 18.00 14.89 15.50 19.14 20.0 17.09 18.00 14.79 15.50 19.14 20.0 17.03 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 19.00		LL-NIII-2Δ	54	5270		17.07	18.00	14.74	15.50	19.07	20.00
Note		O-MII-ZA	62	5310		17.06	18.00	14.73	15.50	19.06	20.00
40 U-NII-2C 118 5590 17.11 18.00 14.81 15.50 19.12 20.0 17.19 18.00 14.89 15.50 19.10 20.0 17.19 18.00 14.89 15.50 19.10 20.0 17.10 18.00 14.81 15.50 19.12 20.0 17.11 18.00 14.81 15.50 19.12 20.0 17.11 18.00 14.81 15.50 19.12 20.0 17.11 18.00 14.81 15.50 19.12 20.0 17.11 18.00 14.81 15.50 19.12 20.0 17.10 18.00 14.81 15.50 19.12 20.0 17.11 18.00 14.81 15.50 19.12 19.00 19.00 17.11 18.00 14.81 15.50 19.00 14.81 15.50 19.00 17.11 18.00 14.81 15.50 19.00 17.11 18.00 14.81 15.50 19.00 17.11 18.00 14.81 15.50 19.00 17.11 18.00 14.81 15.50 19.00 17.11 18.00 14.81 15.50 19.00 14.81 15.50 19.00 17.00 17.00 17.00 18.00 14.81 15.50 19.00 17.00 17.00 18.00 14.81 15.50 19.00 17.00 17.00 17.00 17.00 18			102	5510		16.92	18.00	14.63	15.50	18.93	20.00
U-NII-2C			110	5550	MCSO	17.18	18.00	14.86	15.50	19.18	20.00
126 5630 17.19 18.00 14.89 15.50 19.20 20.0 134 5670 17.09 18.00 14.90 15.50 19.14 20.0 142 5710 17.03 18.00 14.79 15.50 19.06 20.0 17.10 18.00 14.85 15.50 19.13 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0 17.10 18.00 14.60 15.50 18.97 20.0	40	H-NII-2C	118	5590	WICOU	17.11	18.00	14.81	15.50	19.12	20.00
142 5710 17.03 18.00 14.79 15.50 19.06 20.00		0 1111 20	126	5630		17.19	18.00	14.89	15.50	19.20	20.00
U-NII-3 151 5755 17.10 18.00 14.85 15.50 19.13 20.0 5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Average Power (dBm) Tune up			134	5670		17.09	18.00	14.90	15.50	19.14	20.00
U-NII-3 159 5795 16.99 18.00 14.60 15.50 18.97 20.00			142	5710		17.03	18.00	14.79	15.50	19.06	20.00
5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Average Power (dBm) Tune (dB		11-NII-3	151	5755		17.10	18.00	14.85	15.50	19.13	20.00
5GHz mode Channel Frequency(MHz) Data Rate(Mbps) Power (dBm) Power (dBm) Power (dBm) Tune up (dBm) Power (dBm)		O IVIII-O	159	5795		16.99	18.00	14.60	15.50	18.97	20.00
HANIA 42 5240 47.04 40.00 44.54 45.50 40.44 00.00	5GHz	mode	Channel	Frequency(MHz)		Power		Power		Power	Tune up
802.11ac U-INII-1 42 5210 MCS0 17.24 18.00 14.54 15.50 19.11 20.0	802.11ac	U-NII-1	42	5210	MCCO	17.24	18.00	14.54	15.50	19.11	20.00
INICSU I		U-NII-2A	58	5290	IVICSU	17.13	18.00	14.56	15.50	19.04	20.00



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		106	5530		17.23	18.00	14.51	15.50	19.09	20.00
	U-NII-2C	122	5610		17.03	18.00	14.36	15.50	18.91	20.00
		138	5690		17.13	18.00	14.47	15.50	19.01	20.00
	U-NII-3	155	5775		17.12	18.00	14.65	15.50	19.07	20.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		17.05	18.00	14.88	15.50	19.11	20.00
	U-NII-1	40	5200		17.10	18.00	14.85	15.50	19.13	20.00
	OTVILL	44	5220		16.97	18.00	14.66	15.50	18.98	20.00
		48	5240		16.95	18.00	14.72	15.50	18.99	20.00
		52	5260		16.81	18.00	14.71	15.50	18.90	20.00
	U-NII-2A	56	5280		17.08	18.00	14.87	15.50	19.12	20.00
	U-INII-ZA	60	5300		17.07	18.00	14.94	15.50	19.14	20.00
		64	5320		16.94	18.00	14.74	15.50	18.99	20.00
		100	5500		16.98	18.00	14.79	15.50	19.03	20.00
		104	5520		16.92	18.00	14.67	15.50	18.95	20.00
		108	5540		17.06	18.00	14.79	15.50	19.08	20.00
		112	5560		16.95	18.00	14.85	15.50	19.04	20.00
802.11ax- 20		116	5580	MCS0	16.91	18.00	14.78	15.50	18.98	20.00
20	U-NII-2C	120	5600		16.98	18.00	14.68	15.50	18.99	20.00
	U-NII-2C	124	5620		16.94	18.00	14.78	15.50	19.00	20.00
		128	5640		17.14	18.00	14.92	15.50	19.18	20.00
		132	5660		16.92	18.00	14.83	15.50	19.01	20.00
		136	5680		17.02	18.00	14.72	15.50	19.03	20.00
		140	5700		16.96	18.00	14.79	15.50	19.02	20.00
		144	5720		16.86	18.00	14.60	15.50	18.89	20.00
		149	5745		17.17	18.00	14.94	15.50	19.21	20.00
		153	5765		17.01	18.00	14.87	15.50	19.08	20.00
	U-NII-3	157	5785		16.87	18.00	14.61	15.50	18.90	20.00
		161	5805		17.02	18.00	14.70	15.50	19.02	20.00
		165	5825		16.90	18.00	14.74	15.50	18.96	20.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	11 NIII 1	38	5190		17.15	18.00	14.48	15.50	19.03	20.00
	U-NII-1	46	5230		17.16	18.00	14.64	15.50	19.09	20.00
	U-NII-2A	54	5270	MCS0	17.14	18.00	14.61	15.50	19.07	20.00
802.11ax-	U-NII-2A	62	5310		17.06	18.00	14.64	15.50	19.03	20.00
802.11ax- 40		102	5510		16.92	18.00	14.36	15.50	18.84	20.00
		110	5550		17.22	18.00	14.63	15.50	19.13	20.00
	U-NII-2C	118	5590		17.12	18.00	14.54	15.50	19.03	20.00
		126	5630		17.18	18.00	14.59	15.50	19.09	20.00



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		134	5670		17.17	18.00	14.61	15.50	19.09	20.00
		142	5710		17.11	18.00	14.45	15.50	18.99	20.00
	U-NII-3	151	5755		17.15	18.00	14.56	15.50	19.06	20.00
	U-MII-3	159	5795		16.97	18.00	14.48	15.50	18.91	20.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	42	5210		17.08	18.00	14.69	15.50	19.06	20.00
	U-NII-2A	58	5290		17.15	18.00	14.58	15.50	19.06	20.00
802.11ax		106	5530	MCCO	17.14	18.00	14.53	15.50	19.04	20.00
80M	U-NII-2C	122	5610	MCS0	17.16	18.00	14.46	15.50	19.03	20.00
		138	5690		17.00	18.00	14.40	15.50	18.90	20.00
	U-NII-3	155	5775	1	17.19	18.00	14.35	15.50	19.01	20.00

				WIFI 5G Se	ensor On					
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		8.78	9.50	15.18	16.00	16.08	17.00
	U-NII-1	40	5200		8.65	9.50	15.04	16.00	15.94	17.00
	0-1111-1	44	5220		8.67	9.50	14.99	16.00	15.90	17.00
		48	5240		8.68	9.50	15.03	16.00	15.94	17.00
		52	5260		8.90	9.50	15.10	16.00	16.03	17.00
	U-NII-2A	56	5280		8.94	9.50	15.06	16.00	16.01	17.00
	U-INII-ZA	60	5300		8.98	9.50	15.12	16.00	16.07	17.00
		64	5320		8.92	9.50	14.87	16.00	15.85	17.00
		100	5500		9.85	10.50	15.16	16.00	16.28	17.00
		104	5520		9.68	10.50	14.96	16.00	16.09	17.00
		108	5540		9.76	10.50	14.99	16.00	16.13	17.00
		112	5560		9.60	10.50	15.15	16.00	16.22	17.00
802.11a		116	5580	6	9.91	10.50	15.17	16.00	16.30	17.00
	U-NII-2C	120	5600		9.80	10.50	15.07	16.00	16.20	17.00
	0-1111-20	124	5620		9.60	10.50	14.93	16.00	16.05	17.00
		128	5640		9.68	10.50	15.05	16.00	16.16	17.00
		132	5660		9.77	10.50	15.01	16.00	16.15	17.00
		136	5680		9.78	10.50	14.98	16.00	16.13	17.00
		140	5700		9.82	10.50	14.95	16.00	16.11	17.00
		144	5720		9.56	10.50	14.93	16.00	16.04	17.00
		149	5745		8.76	9.50	15.08	16.00	15.99	17.00
		153	5765		8.71	9.50	15.04	16.00	15.95	17.00
	U-NII-3	157	5785		8.90	9.50	15.34	16.00	16.23	17.00
		161	5805		8.78	9.50	15.01	16.00	15.94	17.00
		165	5825		8.79	9.50	15.29	16.00	16.17	17.00
										



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		8.45	9.00	14.49	15.50	15.46	16.50
	U-NII-1	40	5200		8.44	9.00	14.56	15.50	15.51	16.50
	U-MII-1	44	5220		8.27	9.00	14.45	15.50	15.39	16.50
		48	5240		8.32	9.00	14.44	15.50	15.39	16.50
		52	5260		8.32	9.00	14.38	15.50	15.34	16.50
	U-NII-2A	56	5280		8.34	9.00	14.53	15.50	15.47	16.50
	U-MII-ZA	60	5300		8.39	9.00	14.62	15.50	15.55	16.50
		64	5320		8.30	9.00	14.40	15.50	15.35	16.50
		100	5500		9.21	10.00	14.45	15.50	15.59	16.50
		104	5520		9.16	10.00	14.41	15.50	15.54	16.50
		108	5540		9.25	10.00	14.58	15.50	15.70	16.50
		112	5560		9.16	10.00	14.57	15.50	15.67	16.50
802.11n- HT20		116	5580	MCS0	9.22	10.00	14.56	15.50	15.67	16.50
11120		120	5600		9.33	10.00	14.56	15.50	15.70	16.50
	U-NII-2C	124	5620		9.32	10.00	14.40	15.50	15.57	16.50
		128	5640		9.13	10.00	14.53	15.50	15.63	16.50
		132	5660		9.31	10.00	14.42	15.50	15.59	16.50
		136	5680		9.24	10.00	14.39	15.50	15.55	16.50
		140	5700		9.24	10.00	14.41	15.50	15.56	16.50
		144	5720		9.19	10.00	14.43	15.50	15.57	16.50
		149	5745		8.34	9.00	14.57	15.50	15.50	16.50
		153	5765		8.29	9.00	14.53	15.50	15.46	16.50
	U-NII-3	157	5785		8.18	9.00	14.45	15.50	15.37	16.50
		161	5805		8.31	9.00	14.59	15.50	15.51	16.50
		165	5825		8.32	9.00	14.35	15.50	15.32	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		8.40	9.00	14.56	15.50	15.50	16.50
	0-1111-1	46	5230		8.47	9.00	14.60	15.50	15.55	16.50
	U-NII-2A	54	5270		8.28	9.00	14.52	15.50	15.45	16.00
	U-INII-ZA	62	5310		8.31	9.00	14.49	15.50	15.43	16.00
		102	5510		9.26	10.00	14.42	15.50	15.58	16.50
802.11n-		110	5550	MCCO	9.50	10.00	14.58	15.50	15.75	16.50
HT40	11 111 00	118	5590	MCS0	9.25	10.00	14.58	15.50	15.70	16.50
	U-NII-2C	126	5630		9.36	10.00	14.48	15.50	15.64	16.50
		134	5670		9.36	10.00	14.61	15.50	15.74	16.50
		142	5710		9.29	10.00	14.45	15.50	15.61	16.50
	LLAULO	151	5755		8.36	9.00	14.57	15.50	15.50	16.50
	U-NII-3	159	5795		8.27	9.00	14.38	15.50	15.33	16.00



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		8.39	9.00	14.86	15.50	15.74	16.50
	U-NII-1	40	5200		8.31	9.00	14.71	15.50	15.61	16.50
	0-1111-1	44	5220		8.36	9.00	14.65	15.50	15.57	16.50
		48	5240		8.21	9.00	14.72	15.50	15.60	16.50
		52	5260		8.13	9.00	14.72	15.50	15.58	16.50
	U-NII-2A	56	5280		8.54	9.50	14.92	15.50	15.82	16.50
	U-INII-ZA	60	5300		8.41	9.00	14.90	15.50	15.78	16.50
		64	5320		8.40	9.00	14.64	15.50	15.57	16.50
		100	5500		9.35	10.00	14.89	15.50	15.96	16.50
		104	5520		9.31	10.00	14.71	15.50	15.81	16.50
		108	5540		9.41	10.00	14.82	15.50	15.92	16.50
		112	5560		9.48	10.00	14.82	15.50	15.93	16.50
802.11ac- 20		116	5580	MCS0	9.29	10.00	14.66	15.50	15.77	16.50
20		120	5600		9.31	10.00	14.66	15.50	15.77	16.50
	U-NII-2C	124	5620		9.22	10.00	14.63	15.50	15.73	16.50
		128	5640		9.57	10.50	14.85	15.50	15.98	16.50
		132	5660		9.41	10.00	14.91	15.50	15.99	16.50
		136	5680		9.36	10.00	14.67	15.50	15.79	16.50
		140	5700		9.17	10.00	14.83	15.50	15.87	16.50
		144	5720		9.26	10.00	14.76	15.50	15.84	16.50
		149	5745		8.36	9.00	14.93	15.50	15.79	16.50
		153	5765		8.42	9.00	14.84	15.50	15.73	16.50
	U-NII-3	157	5785		8.21	9.00	14.68	15.50	15.56	16.50
		161	5805		8.31	9.00	14.74	15.50	15.63	16.50
		165	5825		8.21	9.00	14.62	15.50	15.51	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		8.41	9.00	14.89	15.50	15.77	16.50
	0 1411 1	46	5230		8.50	9.00	14.78	15.50	15.70	16.50
	U-NII-2A	54	5270		8.37	9.00	14.74	15.50	15.64	16.50
	O IVIII ZA	62	5310		8.37	9.00	14.73	15.50	15.63	16.50
		102	5510		9.30	10.00	14.63	15.50	15.75	16.50
802.11ac-		110	5550	MCS0	9.55	10.50	14.86	15.50	15.98	16.50
40	U-NII-2C	118	5590	IVICSU	9.23	10.00	14.81	15.50	15.87	16.50
	U-INII-ZU	126	5630		9.42	10.00	14.89	15.50	15.97	16.50
		134	5670		9.29	10.00	14.90	15.50	15.95	16.50
		142	5710		9.25	10.00	14.79	15.50	15.86	16.50
	11 N/// 0	151	5755		8.35	9.00	14.85	15.50	15.73	16.50
	U-NII-3	159	5795		8.24	9.00	14.60	15.50	15.50	16.50



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	42	5210		8.48	9.00	14.54	15.50	15.50	16.50
	U-NII-2A	58	5290		8.45	9.00	14.56	15.50	15.51	16.50
802.11ac		106	5530	MCS0	9.30	10.00	14.51	15.50	15.65	16.50
80M	U-NII-2C	122	5610	IVICSU	9.18	10.00	14.36	15.50	15.51	16.50
		138	5690		9.24	10.00	14.47	15.50	15.61	16.50
	U-NII-3	155	5775		8.27	9.00	14.65	15.50	15.55	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		8.35	9.00	14.88	15.50	15.75	16.50
	U-NII-1	40	5200		8.30	9.00	14.85	15.50	15.72	16.50
	U-INII-1	44	5220		8.21	9.00	14.66	15.50	15.55	16.50
		48	5240		8.17	9.00	14.72	15.50	15.59	16.50
		52	5260		8.04	9.00	14.71	15.50	15.56	16.50
		56	5280		8.27	9.00	14.87	15.50	15.73	16.50
	U-NII-2A	60	5300		8.32	9.00	14.94	15.50	15.80	16.50
		64	5320		8.20	9.00	14.74	15.50	15.61	16.50
		100	5500		9.27	10.00	14.79	15.50	15.86	16.50
		104	5520		9.13	10.00	14.67	15.50	15.74	16.50
		108	5540		9.35	10.00	14.79	15.50	15.88	16.50
		112	5560		9.19	10.00	14.85	15.50	15.89	16.50
802.11ax- 20		116	5580	MCS0	9.16	10.00	14.78	15.50	15.83	16.50
20	11 1111 00	120	5600		9.25	10.00	14.68	15.50	15.77	16.50
	U-NII-2C	124	5620		9.23	10.00	14.78	15.50	15.85	16.50
		128	5640		9.41	10.00	14.92	15.50	16.00	16.50
		132	5660		9.08	10.00	14.83	15.50	15.85	16.50
		136	5680		9.29	10.00	14.72	15.50	15.81	16.50
		140	5700		9.20	10.00	14.79	15.50	15.85	16.50
		144	5720		9.03	10.00	14.60	15.50	15.66	16.50
		149	5745		8.37	9.00	14.94	15.50	15.80	16.50
		153	5765		8.23	9.00	14.87	15.50	15.72	16.50
	U-NII-3	157	5785		8.04	9.00	14.61	15.50	15.47	16.50
		161	5805		8.28	9.00	14.70	15.50	15.59	16.50
		165	5825		8.05	9.00	14.74	15.50	15.58	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	11 NIII 4	38	5190		8.29	9.00	14.48	15.50	15.42	16.50
802.11ax-	U-NII-1	46	5230	MCSO	8.34	9.00	14.64	15.50	15.55	16.50
40	U-NII-2A	54	5270	MCS0	8.24	9.00	14.61	15.50	15.51	16.50
	U-INII-ZA	62	5310		8.31	9.00	14.64	15.50	15.55	16.50



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ĺ		400	5540		0.00	40.00	4400	45.50	1 45 40	40.50
		102	5510		9.09	10.00	14.36	15.50	15.49	16.50
		110	5550		9.31	10.00	14.63	15.50	15.75	16.50
	U-NII-2C	118	5590		9.20	10.00	14.54	15.50	15.65	16.50
	U-INII-2C	126	5630		9.32	10.00	14.59	15.50	15.72	16.50
		134	5670		9.35	10.00	14.61	15.50	15.74	16.50
		142	5710		9.30	10.00	14.45	15.50	15.61	16.50
	U-NII-3	151	5755		8.19	9.00	14.66	15.50	15.54	16.50
	0-1111-3	159	5795		8.25	9.00	14.58	15.50	15.49	16.50
5GHz				5 .	Average		Average	_	Average	
3GHZ	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Power (dBm)	Tune up	Power (dBm)	Tune up	Power (dBm)	Tune up
3GHZ	U-NII-1	Channel 42	Frequency(MHz) 5210		Power	9.00	Power		Power	
JUNZ					Power (dBm)		Power (dBm)	up	Power (dBm)	up
802.11ax	U-NII-1	42	5210	Rate(Mbps)	Power (dBm) 8.45	9.00	Power (dBm) 14.69	up 15.50	Power (dBm) 15.62	up 16.50
	U-NII-1	42 58	5210 5290		Power (dBm) 8.45 8.36	9.00	Power (dBm) 14.69 14.58	up 15.50 15.50	Power (dBm) 15.62 15.51	up 16.50 16.50
802.11ax	U-NII-1 U-NII-2A	42 58 106	5210 5290 5530	Rate(Mbps)	Power (dBm) 8.45 8.36 9.34	9.00 9.00 10.00	Power (dBm) 14.69 14.58 14.53	up 15.50 15.50 15.50	Power (dBm) 15.62 15.51 15.68	up 16.50 16.50 16.50

			WIFI !	5G WIFI 5G Se	nsor Off For	DBS				
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		16.10	17.00	13.61	14.50	18.04	19.00
	U-NII-1	40	5200		16.20	17.00	13.48	14.50	18.06	19.00
	O-INII-1	44	5220		16.17	17.00	13.38	14.50	18.01	19.00
		48	5240		15.96	17.00	13.40	14.50	17.88	19.00
		52	5260		16.05	17.00	13.62	14.50	18.01	19.00
	U-NII-2A	56	5280		15.94	17.00	13.55	14.50	17.92	19.00
	U-MII-ZA	60	5300		16.18	17.00	13.62	14.50	18.10	19.00
		64	5320		15.90	17.00	13.40	14.50	17.84	19.00
		100	5500		16.10	17.00	13.64	14.50	18.05	19.00
		104	5520		15.98	17.00	13.44	14.50	17.90	19.00
802.11a		108	5540	6	15.99	17.00	13.54	14.50	17.95	19.00
		112	5560		15.80	17.00	13.68	14.50	17.88	19.00
		116	5580		16.09	17.00	13.69	14.50	18.06	19.00
	11 111 00	120	5600		16.09	17.00	13.52	14.50	18.00	19.00
	U-NII-2C	124	5620		15.82	17.00	13.46	14.50	17.81	19.00
		128	5640		16.04	17.00	13.52	14.50	17.97	19.00
		132	5660		15.99	17.00	13.51	14.50	17.93	19.00
		136	5680		16.08	17.00	13.45	14.50	17.97	19.00
		140	5700		15.98	17.00	13.43	14.50	17.90	19.00
		144	5720		15.96	17.00	13.48	14.50	17.90	19.00
	U-NII-3	149	5745		16.56	17.50	13.52	14.50	18.31	19.00



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		153	5765		16.58	17.50	13.42	14.50	18.29	19.00
		157	5785		16.63	17.50	13.63	14.50	18.39	19.00
		161	5805		16.56	17.50	13.37	14.50	18.26	19.00
		165	5825		16.57	17.50	13.47	14.50	18.30	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		15.74	16.50	13.01	14.00	17.60	18.50
	U-NII-1	40	5200		15.70	16.50	13.09	14.00	17.60	18.50
	O-INII-1	44	5220		15.56	16.50	12.96	14.00	17.46	18.50
		48	5240		15.62	16.50	12.97	14.00	17.50	18.50
		52	5260		15.62	16.50	12.84	14.00	17.46	18.50
	11 111 24	56	5280		15.66	16.50	13.03	14.00	17.55	18.50
	U-NII-2A	60	5300		15.67	16.50	13.13	14.00	17.59	18.50
		64	5320		15.57	16.50	12.88	14.00	17.44	18.50
		100	5500		15.50	16.50	12.99	14.00	17.43	18.50
		104	5520		15.46	16.50	12.87	14.00	17.37	18.50
		108	5540		15.48	16.50	13.06	14.00	17.45	18.50
		112	5560		15.41	16.50	13.10	14.00	17.42	18.50
802.11n- HT20		116	5580	MCS0	15.46	16.50	13.05	14.00	17.43	18.50
11120	11 111 20	120	5600		15.51	16.50	13.10	14.00	17.48	18.50
	U-NII-2C	124	5620		15.57	16.50	12.86	14.00	17.43	18.50
		128	5640		15.43	16.50	13.01	14.00	17.40	18.50
		132	5660		15.50	16.50	12.95	14.00	17.42	18.50
		136	5680		15.55	16.50	12.89	14.00	17.43	18.50
		140	5700		15.51	16.50	12.89	14.00	17.40	18.50
		144	5720		15.51	16.50	12.95	14.00	17.43	18.50
		149	5745		16.04	17.00	13.29	14.00	17.89	18.50
		153	5765		16.07	17.00	13.22	14.00	17.89	18.50
	U-NII-3	157	5785		15.95	17.00	13.19	14.00	17.80	18.50
		161	5805		16.01	17.00	13.33	14.00	17.88	18.50
		165	5825		16.05	17.00	13.05	14.00	17.81	18.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		15.76	16.50	13.03	14.00	17.62	18.50
	U-INII- I	46	5230		15.67	16.50	13.06	14.00	17.57	18.50
	U-NII-2A	54	5270		15.53	16.50	13.03	14.00	17.47	18.50
802.11n-	U-INII-ZA	62	5310	MCCO	15.65	16.50	13.02	14.00	17.54	18.50
HT40		102	5510	MCS0	15.53	16.50	12.89	14.00	17.42	18.50
	11 NII 22	110	5550		15.74	16.50	13.12	14.00	17.63	18.50
	U-NII-2C	118	5590		15.54	16.50	13.09	14.00	17.50	18.50
		126	5630		15.66	16.50	12.94	14.00	17.52	18.50



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		134	5670		15.63	16.50	13.11	14.00	17.56	18.50
		142	5710		15.54	16.50	12.99	14.00	17.46	18.50
		151	5755		16.03	17.00	13.12	14.00	17.82	18.50
	U-NII-3	159	5795		16.04	17.00	12.86	14.00	17.75	18.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		15.67	16.50	13.33	14.00	17.67	18.50
	U-NII-1	40	5200		15.60	16.50	13.17	14.00	17.56	18.50
	O IVIII-I	44	5220		15.58	16.50	13.13	14.00	17.54	18.50
		48	5240		15.54	16.50	13.18	14.00	17.53	18.50
		52	5260		15.41	16.50	13.19	14.00	17.45	18.50
	U-NII-2A	56	5280		15.83	16.50	13.47	14.00	17.82	18.50
	U-INII-ZA	60	5300		15.60	16.50	13.39	14.00	17.64	18.50
		64	5320		15.67	16.50	13.18	14.00	17.61	18.50
		100	5500		15.61	16.50	13.39	14.00	17.65	18.50
		104	5520		15.53	16.50	13.22	14.00	17.54	18.50
		108	5540		15.67	16.50	13.35	14.00	17.67	18.50
		112	5560		15.71	16.50	13.33	14.00	17.69	18.50
802.11ac- 20		116	5580	MCS0	15.57	16.50	13.20	14.00	17.56	18.50
		120	5600		15.62	16.50	13.18	14.00	17.58	18.50
	U-NII-2C	124	5620		15.50	16.50	13.13	14.00	17.49	18.50
		128	5640		15.78	16.50	13.40	14.00	17.76	18.50
		132	5660		15.69	16.50	13.36	14.00	17.69	18.50
		136	5680		15.61	16.50	13.18	14.00	17.57	18.50
		140	5700		15.51	16.50	13.33	14.00	17.57	18.50
		144	5720		15.52	16.50	13.22	14.00	17.53	18.50
		149	5745		16.20	17.00	13.40	14.00	18.03	18.50
		153	5765		16.19	17.00	13.38	14.00	18.02	18.50
	U-NII-3	157	5785		16.05	17.00	13.21	14.00	17.87	18.50
		161	5805		16.03	17.00	13.26	14.00	17.87	18.50
		165	5825		15.96	17.00	13.14	14.00	17.79	18.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		15.76	16.50	13.38	14.00	17.74	18.50
	O-MII-1	46	5230		15.63	16.50	13.27	14.00	17.62	18.50
	U-NII-2A	54	5270		15.59	16.50	13.22	14.00	17.58	18.50
802.11ac-	U-INII-ZA	62	5310	MCSO	15.60	16.50	13.27	14.00	17.60	18.50
40		102	5510	MCS0	15.45	16.50	13.09	14.00	17.44	18.50
	11 NII 20	110	5550		15.69	16.50	13.44	14.00	17.72	18.50
	U-NII-2C	118	5590		15.65	16.50	13.28	14.00	17.64	18.50
		126	5630		15.68	16.50	13.40	14.00	17.70	18.50



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		134	5670		15.64	16.50	13.43	14.00	17.68	18.50
		142	5710		15.56	16.50	13.32	14.00	17.59	18.50
		151	5755		16.08	17.00	13.35	14.00	17.94	18.50
	U-NII-3	159	5795		15.99	17.00	13.12	14.00	17.80	18.50
		.00	0.00	Data	Average	Tune	Average	Tune	Average	Tune
5GHz	mode	Channel	Frequency(MHz)	Rate(Mbps)	Power (dBm)	up	Power (dBm)	up	Power (dBm)	up
	U-NII-1	42	5210		15.70	16.50	13.02	14.00	17.57	18.50
	U-NII-2A	58	5290		15.67	16.50	13.04	14.00	17.56	18.50
802.11ac		106	5530	MCS0	15.64	16.50	13.00	14.00	17.53	18.50
80M	U-NII-2C	122	5610	WICOU	15.39	16.50	12.87	14.00	17.32	18.50
		138	5690		15.54	16.50	12.93	14.00	17.44	18.50
	U-NII-3	155	5775		16.03	17.00	13.15	14.00	17.83	18.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		15.56	16.50	13.38	14.00	17.62	18.50
	U-NII-1	40	5200		15.58	16.50	13.36	14.00	17.62	18.50
	U-MII-1	44	5220		15.42	16.50	13.14	14.00	17.44	18.50
		48	5240		15.49	16.50	13.18	14.00	17.50	18.50
		52	5260		15.30	16.50	13.21	14.00	17.39	18.50
	11 111 04	56	5280		15.55	16.50	13.33	14.00	17.59	18.50
	U-NII-2A	60	5300		15.53	16.50	13.46	14.00	17.63	18.50
		64	5320		15.46	16.50	13.28	14.00	17.52	18.50
		100	5500		15.45	16.50	13.27	14.00	17.51	18.50
		104	5520		15.41	16.50	13.14	14.00	17.43	18.50
		108	5540		15.61	16.50	13.31	14.00	17.62	18.50
		112	5560		15.46	16.50	13.33	14.00	17.53	18.50
802.11ax- 20		116	5580	MCS0	15.40	16.50	13.29	14.00	17.48	18.50
20		120	5600		15.47	16.50	13.15	14.00	17.47	18.50
	U-NII-2C	124	5620		15.40	16.50	13.28	14.00	17.48	18.50
		128	5640		15.63	16.50	13.42	14.00	17.67	18.50
		132	5660		15.43	16.50	13.31	14.00	17.51	18.50
		136	5680		15.55	16.50	13.27	14.00	17.57	18.50
		140	5700		15.49	16.50	13.32	14.00	17.55	18.50
		144	5720		15.37	16.50	13.14	14.00	17.41	18.50
		149	5745		16.12	17.00	13.44	14.00	17.99	18.50
		153	5765		16.02	17.00	13.39	14.00	17.91	18.50
	U-NII-3	157	5785		15.83	17.00	13.09	14.00	17.68	18.50
		161	5805		16.05	17.00	13.15	14.00	17.85	18.50
		165	5825		15.89	17.00	13.26	14.00	17.78	18.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up



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		-								
	U-NII-1	38	5190		15.58	16.50	13.00	14.00	17.49	18.50
	O-MII-1	46	5230		15.60	16.50	13.15	14.00	17.56	18.50
	U-NII-2A	54	5270		15.52	16.50	13.00	14.00	17.45	18.50
	U-MII-ZA	62	5310		15.44	16.50	13.02	14.00	17.41	18.50
		102	5510		15.37	16.50	12.84	14.00	17.30	18.50
802.11ax-		110	5550	14000	15.67	16.50	13.14	14.00	17.60	18.50
40		118	5590	MCS0	15.48	16.50	13.06	14.00	17.45	18.50
	U-NII-2C	126	5630		15.54	16.50	13.12	14.00	17.51	18.50
		134	5670		15.62	16.50	13.12	14.00	17.56	18.50
		142	5710		15.55	16.50	13.00	14.00	17.47	18.50
	U-NII-3	151	5755		16.03	17.00	13.02	14.00	17.79	18.50
	U-MII-3	159	5795		15.83	17.00	12.98	14.00	17.65	18.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	42	5210		15.61	16.50	13.18	14.00	17.57	18.50
	U-NII-2A	58	5290		15.61	16.50	13.09	14.00	17.54	18.50
802.11ax		106	5530	MCS0	15.55	16.50	13.01	14.00	17.47	18.50
80M	U-NII-2C	122	5610	IVICSU	15.59	16.50	13.05	14.00	17.51	18.50
		138	5690		15.37	16.50	12.86	14.00	17.30	18.50
	U-NII-3	155	5775		16.08	17.00	13.32	14.00	17.93	18.50

			WIFI	5G WIFI 5G Se	ensor On For	· DBS				
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		7.30	8.00	13.61	14.50	14.52	15.00
	U-NII-1	40	5200		7.18	8.00	13.48	14.50	14.39	15.00
	O-INII-1	44	5220		7.20	8.00	13.38	14.50	14.32	15.00
		48	5240		7.18	8.00	13.40	14.50	14.33	15.00
		52	5260		7.37	8.00	13.62	14.50	14.54	15.00
	U-NII-2A	56	5280		7.47	8.00	13.55	14.50	14.51	15.00
	U-MII-ZA	60	5300		7.49	8.00	13.62	14.50	14.57	15.00
		64	5320		7.44	8.00	13.40	14.50	14.38	15.00
802.11a		100	5500	6	8.35	9.00	13.64	14.50	14.77	15.50
		104	5520		8.16	9.00	13.44	14.50	14.57	15.50
		108	5540		8.23	9.00	13.54	14.50	14.66	15.50
		112	5560		8.07	9.00	13.68	14.50	14.73	15.50
	U-NII-2C	116	5580		8.37	9.00	13.69	14.50	14.81	15.50
		120	5600		8.30	9.00	13.52	14.50	14.66	15.50
		124	5620		8.13	9.00	13.46	14.50	14.58	15.50
		128	5640		8.17	9.00	13.52	14.50	14.63	15.50
		132	5660		8.24	9.00	13.51	14.50	14.64	15.50



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		136	5680		8.33	9.00	13.45	14.50	14.61	15.50
		140	5700		8.27	9.00	13.43	14.50	14.59	15.50
		144	5720		8.06	9.00	13.48	14.50	14.58	15.50
		149	5745		7.81	8.50	13.52	14.50	14.55	16.00
		153	5765		7.80	8.50	13.42	14.50	14.47	16.00
	U-NII-3	157	5785		7.93	8.50	13.63	14.50	14.67	16.00
		161	5805		7.93	8.50	13.37	14.50	14.46	16.00
		165	5825		7.84	8.50	13.47	14.50	14.52	16.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		6.95	7.50	13.01	14.00	13.97	14.50
	11 8111 4	40	5200		6.86	7.50	13.09	14.00	14.02	14.50
	U-NII-1	44	5220		6.80	7.50	12.96	14.00	13.90	14.50
		48	5240		6.86	7.50	12.97	14.00	13.92	14.50
		52	5260		6.83	7.50	12.84	14.00	13.81	14.50
		56	5280		6.89	7.50	13.03	14.00	13.98	14.50
	U-NII-2A	60	5300		6.86	7.50	13.13	14.00	14.05	14.50
		64	5320		6.82	7.50	12.88	14.00	13.84	14.50
		100	5500		7.69	8.50	12.99	14.00	14.11	15.00
		104	5520		7.62	8.50	12.87	14.00	14.00	15.00
		108	5540		7.73	8.50	13.06	14.00	14.18	15.00
		112	5560		7.71	8.50	13.10	14.00	14.20	15.00
802.11n- HT20		116	5580	MCS0	7.72	8.50	13.05	14.00	14.17	15.00
25	11 111 20	120	5600		7.86	8.50	13.10	14.00	14.24	15.00
	U-NII-2C	124	5620		7.79	8.50	12.86	14.00	14.04	15.00
		128	5640		7.66	8.50	13.01	14.00	14.12	15.00
		132	5660		7.83	8.50	12.95	14.00	14.11	15.00
		136	5680		7.78	8.50	12.89	14.00	14.06	15.00
		140	5700		7.76	8.50	12.89	14.00	14.05	15.00
		144	5720		7.70	8.50	12.95	14.00	14.08	15.00
		149	5745		7.36	8.00	13.29	14.00	14.28	15.00
		153	5765		7.28	8.00	13.22	14.00	14.21	15.00
	U-NII-3	157	5785		7.15	8.00	13.19	14.00	14.16	15.00
		161	5805		7.29	8.00	13.33	14.00	14.30	15.00
		165	5825		7.33	8.00	13.05	14.00	14.08	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		6.89	7.50	13.03	14.00	13.98	14.50
802.11n-	0-1411-1	46	5230	MCS0	6.97	7.50	13.06	14.00	14.02	15.00
HT40	U-NII-2A	54	5270	IVIOOU	6.79	7.50	13.03	14.00	13.96	14.50
	0-14II-ZA	62	5310		6.78	7.50	13.02	14.00	13.95	14.50



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1		102	5510		7.76	8.50	12.89	14.00	14.05	15.00
		110	5550		8.00	8.50	13.12	14.00	14.28	15.00
		118	5590		7.76	8.50	13.09	14.00	14.21	15.00
	U-NII-2C	126	5630		7.90	8.50	12.94	14.00	14.12	15.00
		134	5670		7.84	8.50	13.11	14.00	14.24	15.00
		142	5710		7.80	8.50	12.99	14.00	14.14	15.00
		151	5755		7.37	8.00	13.12	14.00	14.14	15.00
	U-NII-3	159	5795		7.32	8.00	12.86	14.00	13.93	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		6.94	7.50	13.33	14.00	14.23	15.00
		40	5200		6.78	7.50	13.17	14.00	14.07	15.00
	U-NII-1	44	5220		6.82	7.50	13.13	14.00	14.04	15.00
		48	5240		6.67	7.50	13.18	14.00	14.06	15.00
		52	5260		6.68	7.50	13.19	14.00	14.07	15.00
		56	5280		6.95	7.50	13.47	14.00	14.34	15.00
	U-NII-2A	60	5300		6.92	7.50	13.39	14.00	14.27	15.00
		64	5320		6.88	7.50	13.18	14.00	14.09	15.00
		100	5500		7.81	8.50	13.39	14.00	14.45	15.00
	104 108 112	104	5520		7.83	8.50	13.22	14.00	14.32	15.00
		108	5540		7.89	8.50	13.35	14.00	14.44	15.00
		112	5560		7.97	8.50	13.33	14.00	14.44	15.00
802.11ac- 20		116	5580	MCS0	7.83	8.50	13.20	14.00	14.31	15.00
	11 1111 20	120	5600		7.79	8.50	13.18	14.00	14.28	15.00
	U-NII-2C	124	5620		7.68	8.50	13.13	14.00	14.22	15.00
		128	5640		8.05	9.00	13.40	14.00	14.51	15.50
		132	5660		7.90	8.50	13.36	14.00	14.45	15.50
		136	5680		7.88	8.50	13.18	14.00	14.30	15.00
		140	5700		7.68	8.50	13.33	14.00	14.38	15.00
		144	5720		7.74	8.50	13.22	14.00	14.30	15.00
		149	5745		7.32	8.00	13.40	14.00	14.36	15.50
		153	5765		7.42	8.00	13.38	14.00	14.36	15.50
	U-NII-3	157	5785		7.21	8.00	13.21	14.00	14.18	15.50
		161	5805		7.26	8.00	13.26	14.00	14.23	15.50
		165	5825		7.22	8.00	13.14	14.00	14.13	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		6.91	7.50	13.38	14.00	14.26	15.00
802.11ac-	0-1411-1	46	5230	MCS0	6.92	7.50	13.27	14.00	14.18	15.00
40	U-NII-2A	54	5270	IVIOOU	6.87	7.50	13.22	14.00	14.13	15.00
	J 1411-274	62	5310		6.87	7.50	13.27	14.00	14.17	15.00



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U-l	-NII-2C -	102 110 118	5510 5550		7.80	8.50	13.09	14.00	14.22	15.00
U-l	-NII-2C -		5550							
U-	-NII-2C	118			7.95	8.50	13.44	14.00	14.52	15.50
			5590		7.73	8.50	13.28	14.00	14.35	15.00
		126	5630		7.92	8.50	13.40	14.00	14.48	15.00
<u> </u>		134	5670		7.79	8.50	13.43	14.00	14.48	15.00
		142	5710		7.75	8.50	13.32	14.00	14.38	15.00
l u	J-NII-3	151	5755		7.35	8.00	13.35	14.00	14.32	15.50
	7 1411 3	159	5795		7.24	8.00	13.12	14.00	14.12	15.50
5GHz n	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
U	J-NII-1	42	5210		6.98	7.50	13.02	14.00	13.99	15.00
U-	-NII-2A	58	5290		6.85	7.50	13.04	14.00	13.98	14.50
802.11ac		106	5530	14000	7.80	8.50	13.00	14.00	14.15	15.00
80M _{U-1}	-NII-2C	122	5610	MCS0	7.68	8.50	12.87	14.00	14.02	15.00
		138	5690		7.74	8.50	12.93	14.00	14.08	15.00
U	J-NII-3	155	5775		7.07	8.00	13.15	14.00	14.11	15.00
5GHz n	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
		36	5180		6.83	7.50	13.38	14.00	14.25	15.00
l	U-NII-1	40	5200		6.77	7.50	13.36	14.00	14.22	15.00
	J-INII-1	44	5220		6.71	7.50	13.14	14.00	14.03	15.00
		48	5240		6.63	7.50	13.18	14.00	14.05	15.00
		52	5260		6.56	7.50	13.21	14.00	14.06	15.00
	NIII OA	56	5280		6.79	7.50	13.33	14.00	14.20	15.00
0-	-NII-2A	60	5300		6.78	7.50	13.46	14.00	14.30	15.00
		64	5320		6.74	7.50	13.28	14.00	14.15	15.00
		100	5500		7.76	8.50	13.27	14.00	14.35	15.00
		104	5520		7.59	8.50	13.14	14.00	14.21	15.00
	_	108	5540		7.81	8.50	13.31	14.00	14.39	15.00
802.11ax- 20		112	5560	MCS0	7.69	8.50	13.33	14.00	14.38	15.00
20		116	5580		7.61	8.50	13.29	14.00	14.33	15.00
l		120	5600		7.72	8.50	13.15	14.00	14.24	15.00
0-	-NII-2C	124	5620		7.74	8.50	13.28	14.00	14.35	15.00
	_	128	5640		7.91	8.50	13.42	14.00	14.50	15.00
		132	5660		7.62	8.50	13.31	14.00	14.35	15.00
		136	5680		7.83	8.50	13.27	14.00	14.36	15.00
	-	140	5700		7.65	8.50	13.32	14.00	14.36	15.00
		144	5720		7.54	8.50	13.14	14.00	14.20	15.00
		149	5745		7.34	8.00	13.44	14.00	14.39	15.50
U	J-NII-3	153	5765		7.23	8.00	13.39	14.00	14.33	15.50
	-	157	5785		7.08	8.00	13.09	14.00	14.06	15.00



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		161	5805		7.26	8.00	13.15	14.00	14.15	15.50
		165	5825		7.07	8.00	13.26	14.00	14.20	15.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	38	5190		6.83	7.50	13.00	14.00	13.94	14.50
	O-MII-1	46	5230		6.87	7.50	13.15	14.00	14.07	15.00
	U-NII-2A	54	5270		6.63	7.50	13.00	14.00	13.90	14.50
	U-INII-ZA	62	5310		6.74	7.50	13.02	14.00	13.94	14.50
		102	5510		7.55	8.50	12.84	14.00	13.97	15.00
802.11ax-		110	5550	MCS0	7.81	8.50	13.14	14.00	14.26	15.00
40		118	5590	MCSU	7.74	8.50	13.06	14.00	14.18	15.00
	U-NII-2C	126	5630		7.80	8.50	13.12	14.00	14.24	15.00
		134	5670		7.81	8.50	13.12	14.00	14.24	15.00
		142	5710		7.83	8.50	13.00	14.00	14.15	15.00
	LLNILO	151	5755		7.10	8.00	13.02	14.00	14.01	15.00
	U-NII-3	159	5795		7.15	8.00	12.98	14.00	13.99	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
	U-NII-1	42	5210		6.94	7.50	13.18	14.00	14.11	15.00
	U-NII-2A	58	5290		6.90	7.50	13.09	14.00	14.03	14.50
802.11ax	106 5	5530	MCCO	7.88	8.50	13.01	14.00	14.17	15.00	
80M	002.11ax	122	5610	MCS0	7.71	8.50	13.05	14.00	14.16	15.00
		138	5690	1	7.67	8.50	12.86	14.00	14.01	15.00
	U-NII-3	155	5775		7.10	8.00	13.32	14.00	14.25	15.00

Table 5: Conducted Power of WIFI.



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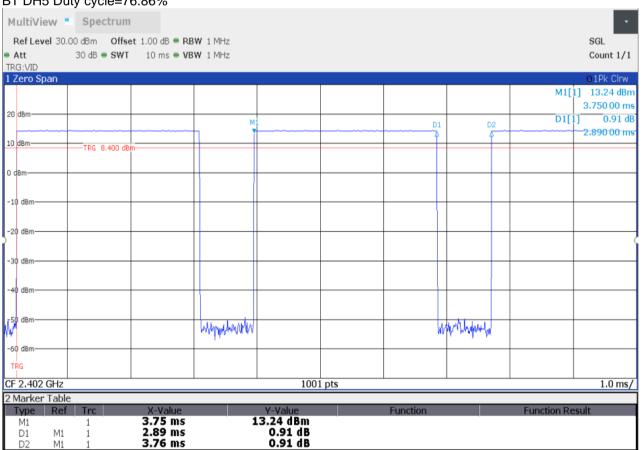
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	BT chain0	Av	verage Conducted Power(dB	im)
Band	Channel	0	39	78
	GFSK	15.10	15.77	14.68
BT	π/4DQPSK	12.18	12.88	12.00
	8DPSK	12.14	12.70	12.09
Band	Channel	0	19	39
BLE 1M	GFSK	7.05	8.98	7.59
BLE 2M	GFSK	7.14	9.09	7.53

E	BT chain1	Ave	erage Conducted Power(dE	Bm)
Band	Channel	0	39	78
	GFSK	14.68	15.41	14.65
BT	π/4DQPSK	11.99	12.45	10.57
	8DPSK	12.03	12.56	10.51
Band	Channel	0	19	39
BLE 1M	GFSK	6.91	8.34	6.50
BLE 2M	GFSK	6.90	8.31	6.38

Table 6: Conducted Power of BT. BT DH5 Duty cycle=76.86%





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6.3 Measurement of SAR Data

Note:

- 1) The maximum Variant Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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6.3.1 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record													
				1	est Reco	d Ant 0								
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)			
				Test	data Senso	or On (0mr	m)							
Back side	802.11b	6-2437	100.00%	1.000	0.857	0.14	15.69	16.50	1.205	1.033	22.6			
Back side-Repeat	802.11b	6-2437	100.00%	1.000	0.842	0.03	15.69	16.50	1.205	1.015	22.6			
Back side	802.11b	1-2412	100.00%	1.000	0.824	0.01	15.67	16.50	1.211	0.998	22.6			
				T	est data S	ensor Off								
Left side 0mm	802.11b	6-2437	100.00%	1.000	0.214	0.02	18.66	19.50	1.213	0.260	22.6			
Top side0mm	802.11b	6-2437	100.00%	1.000	0.120	0.05	18.66	19.50	1.213	0.146	22.6			
Back side 15mm	802.11b	6-2437	100.00%	1.000	0.332	0.05	18.66	19.50	1.213	0.403	22.6			
				1	est Reco	d Ant 1								
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)			
				Test	data Sens	or Off (0mr	m)							
Back side	802.11b	6-2437	100.00%	1.000	0.062	-0.05	18.63	19.50	1.222	0.076	22.6			
Left side	802.11b	6-2437	100.00%	1.000	0.489	0.07	18.63	19.50	1.222	0.597	22.6			
				Т	est Recor	d MIMO								
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)			
				Test	data Sens	or Off (0mr	m)							
Back side	802.11b	6-2437	100.00%	1.000	0.726	0.03	20.41	21.00	1.146	0.832	22.6			
Back side	802.11b	1-2412	100.00%	1.000	0.705	0.08	20.37	21.00	1.156	0.815	22.6			
				T	est data S	ensor Off								
Left side 0mm	802.11b	6-2437	100.00%	1.000	0.359	0.04	21.66	22.50	1.215	0.436	22.6			
Top side 0mm	802.11b	6-2437	100.00%	1.000	0.083	0.15	21.66	22.50	1.215	0.101	22.6			
Back side 15mm	802.11b	6-2437	100.00%	1.000	0.304	-0.05	21.66	22.50	1.215	0.369	22.6			

	Wi-Fi 2.4G SAR Test Record For DBS														
	Test Record Ant 0														
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)					
	Test data Sensor On (0mm)														
Back side	802.11b	6-2437	100.00%	1.000	0.857	0.14	15.69	16.00	1.074	0.920	22.6				
Back side-Repeat	802.11b	6-2437	100.00%	1.000	0.842	0.03	15.69	16.00	1.074	0.904	22.6				
Back side	802.11b	1-2412	100.00%	1.000	0.824	0.01	15.67	16.00	1.079	0.889	22.6				
				T	est data S	ensor Off									
Left side 0mm	Left side 0mm 802.11b 6-2437 100.00% 1.000 0.214 0.02 18.66 19.00 1.081 0.231 22.6														
Top side 0mm	802.11b	6-2437	100.00%	1.000	0.120	0.05	18.66	19.00	1.081	0.130	22.6				



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Back side 15mm	802.11b	6-2437	100.00%	1.000	0.332	0.05	18.66	19.00	1.081	0.359	22.6		
				1	est Reco	rd Ant 1							
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)		
				Test	data Senso	or On (0mr	m)						
Back side	802.11b	6-2437	100.00%	1.000	0.062	-0.05	18.63	19.00	1.089	0.068	22.6		
Left side	802.11b	6-2437	100.00%	1.000	0.489	0.07	18.63	19.00	1.089	0.532	22.6		
Test Record MIMO													
Test position	Test	Test	Duty	Duty Cycle	SAR (W/kg)	Power drift	Conducted	Tune up	Scaled	Scaled SAR 1-	Liquid		
	mode	ch./Freq.	Cycle	Scaled factor	1-g	(dB)	Power(dBm)	Limit(abm)	factor	g (W/kg)	Temp.(℃)		
	mode	ch./Freq.	Cycle	factor	`1-g		, ,	Limit(aBm)	factor		remp.(C)		
Back side	802.11b	6-2437	100.00%	factor	`1-g	(dB)	, ,	20.50	1.021		22.6		
Back side Back side		·		factor Test	1-g	(dB) or On (0mr	m)			(W/kg)			
	802.11b	6-2437	100.00%	Test (1.000 1.000	data Senso	(dB) or On (0mr 0.03 0.08	m) 20.41	20.50	1.021	(W/kg) 0.741	22.6		
	802.11b	6-2437	100.00%	Test (1.000 1.000	1-g data Senso 0.726 0.705	(dB) or On (0mr 0.03 0.08	m) 20.41	20.50	1.021	(W/kg) 0.741	22.6		
Back side	802.11b 802.11b	6-2437	100.00%	Test (1.000 1.000 Test)	data Senso 0.726 0.705 est data Se	or On (0mr 0.03 0.08 ensor Off	m) 20.41 20.37	20.50	1.021	0.741 0.726	22.6 22.6		

Table 7: SAR of Body for 2.4G.

Note:

1)Per KDB 248227 D01, for Body SAR test of WiFi 2.4G, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. As the 802.11b highest reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes are not higher than 802.11b, therefore the adjusted SAR is \leq 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	3, 11 (13)	SAR (1g)		SAR (1g)	SAR (1g)
Back Side	6-2437	0.857	0.842	1.018	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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6.3.2 SAR Result of WIFI 5G

				Wi-F	i 5G SAR T	est Recor	d				
					Test Record	d Ant 0					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Test data	of U-NII-2A S	Sensor On	(0mm)				
Back side	802.11a	60/5300	99.53%	1.005	0.910	0.03	8.98	9.50	1.127	1.031	22.1
Back side	802.11a	52/5260	99.53%	1.005	0.869	0.00	8.90	9.50	1.148	1.002	22.1
				Test da	ata of U-NII-2	2A Sensor	Off				
Left side 0mm	802.11a	60/5300	99.53%	1.005	0.143	-0.04	17.66	18.50	1.213	0.174	22.1
Top side 0mm	802.11a	60/5300	99.53%	1.005	0.103	0.06	17.66	18.50	1.213	0.126	22.1
Back side 15mm	802.11a	60/5300	99.53%	1.005	0.834	0.09	17.66	18.50	1.213	1.017	22.1
Back side 15mm	802.11a	52/5260	99.53%	1.005	0.766	0.02	17.55	18.50	1.245	0.958	22.1
				Test data	of U-NII-2C S	Sensor On	(0mm)				
Back side	802.11a	116/5580	99.53%	1.005	0.931	0.05	9.91	10.50	1.146	1.072	22.1
Back side-Repeat	802.11a	116/5580	99.53%	1.005	0.920	0.05	9.91	10.50	1.146	1.059	22.1
Back side	802.11a	100/5500	99.53%	1.005	0.864	0.04	9.85	10.50	1.161	1.008	22.1
				Test da	ata of U-NII-2	2C Sensor	Off				
Left side 0mm	802.11a	116/5580	99.53%	1.005	0.151	0.19	17.59	18.50	1.233	0.187	22.1
Top side 0mm	802.11a	116/5580	99.53%	1.005	0.115	0.04	17.59	18.50	1.233	0.142	22.1
Back side 15mm	802.11a	116/5580	99.53%	1.005	0.840	0.06	17.59	18.50	1.233	1.041	22.1
Back side 15mm	802.11a	100/5500	99.53%	1.005	0.741	-0.09	17.57	18.50	1.239	0.922	22.1
				Test data	of U-NII-3 S	ensor On	(0mm)				
Back side	802.11a	157/5785	99.53%	1.005	0.734	-0.07	8.90	9.50	1.148	0.847	22.1
Back side	802.11a	165/5825	99.53%	1.005	0.689	0.03	8.79	9.50	1.178	0.815	22.1
				Test d	ata of U-NII-	3 Sensor	Off				
Left side 0mm	802.11a	157/5785	99.53%	1.005	0.191	0.09	17.61	18.50	1.227	0.236	22.1
Top side 0mm	802.11a	157/5785	99.53%	1.005	0.159	0.01	17.61	18.50	1.227	0.196	22.1
Back side 15mm	802.11a	157/5785	99.53%	1.005	0.715	0.04	17.61	18.50	1.227	0.882	22.1
Back side 15mm	802.11a	165/5825	99.53%	1.005	0.665	-0.03	17.60	18.50	1.230	0.822	22.1
					Test Record	l Ant 2					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Test data	of U-NII-2A S	Sensor Off	(0mm)				
Back side	802.11a	60/5300	99.53%	1.005	0.088	0.07	15.12	16.00	1.225	0.108	22.1
Top side	802.11a	60/5300	99.53%	1.005	0.803	0.03	15.12	16.00	1.225	0.988	22.1
Top side	802.11a	52/5260	99.53%	1.005	0.812	-0.04	15.10	16.00	1.230	1.004	22.1
				Test data	of U-NII-2C	Sensor Off	(0mm)		•		•
Back side	802.11a	116/5580	99.53%	1.005	0.093	0.06	15.17	16.00	1.211	0.113	22.1
Top side	802.11a	116/5580	99.53%	1.005	0.858	0.09	15.17	16.00	1.211	1.044	22.1
Top side	802.11a	100/5500	99.53%	1.005	0.811	0.07	15.16	16.00	1.213	0.989	22.1
				Test data	of U-NII-3 S	ensor Off	(0mm)				
Back side	802.11a	157/5785	99.53%	1.005	0.068	0.05	15.34	16.00	1.164	0.080	22.1



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Top side	802.11a	157/5785	99.53%	1.005	0.849	0.07	15.34	16.00	1.164	0.993	22.1
Top side	802.11a	165/5825	99.53%	1.005	0.919	0.08	15.29	16.00	1.178	1.087	22.1
Top side-Repeat	802.11a	165/5825	99.53%	1.005	0.905	0.01	15.29	16.00	1.178	1.071	22.1
					Test Record	I MIMO					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Test data	of U-NII-2A S	Sensor On	(0mm)				
Back side	802.11a	60/5300	99.53%	1.005	0.917	0.05	16.07	16.50	1.104	1.017	22.1
Back side-Repeat	802.11a	60/5300	99.53%	1.005	0.912	0.09	16.07	16.50	1.104	1.012	22.1
Back side	802.11a	52/5260	99.53%	1.005	0.894	0.16	16.03	16.50	1.114	1.001	22.1
				Test da	ata of U-NII-2	2A Sensor	Off				
Left side 0mm	802.11a	60/5300	99.53%	1.005	0.145	0.08	19.58	20.50	1.236	0.180	22.1
Top side 0mm	802.11a	60/5300	99.53%	1.005	0.775	0.05	19.58	20.50	1.236	0.962	22.1
Top side 0mm	802.11a	52/5260	99.53%	1.005	0.726	0.07	19.51	20.50	1.256	0.916	22.1
Back side 15mm	802.11a	60/5300	99.53%	1.005	0.871	-0.02	19.58	20.50	1.236	1.082	22.1
Back side 15mm	802.11a	52/5260	99.53%	1.005	0.856	0.03	19.51	20.50	1.256	1.080	22.1
				Test data	of U-NII-2C S	Sensor On	(0mm)				
Back side	802.11a	116/5580	99.53%	1.005	0.923	0.03	16.30	17.00	1.175	1.090	22.1
Back side	802.11a	100/5500	99.53%	1.005	0.907	0.01	16.28	17.00	1.180	1.076	22.1
				Test da	ata of U-NII-2	2C Sensor	Off				
Left side 0mm	802.11a	116/5580	99.53%	1.005	0.169	0.15	19.56	20.50	1.242	0.211	22.1
Top side 0mm	802.11a	116/5580	99.53%	1.005	0.824	0.08	19.56	20.50	1.242	1.028	22.1
Top side 0mm	802.11a	100/5500	99.53%	1.005	0.793	0.04	19.54	20.50	1.247	0.994	22.1
Back side 15mm	802.11a	116/5580	99.53%	1.005	0.871	-0.11	19.56	20.50	1.242	1.087	22.1
Back side 15mm	802.11a	100/5500	99.53%	1.005	0.846	-0.08	19.54	20.50	1.247	1.060	22.1
				Test data	of U-NII-3 S	ensor On	(0mm)				
Back side	802.11a	157/5785	99.53%	1.005	0.761	0.01	16.23	17.00	1.194	0.913	22.1
Back side	802.11a	165/5825	99.53%	1.005	0.697	0.05	16.17	17.00	1.211	0.848	22.1
				Test d	ata of U-NII-	3 Sensor	Off				
Left side 0mm	802.11a	157/5785	99.53%	1.005	0.243	0.05	19.63	20.50	1.221	0.298	22.1
Top side 0mm	802.11a	157/5785	99.53%	1.005	0.744	0.06	19.63	20.50	1.221	0.913	22.1
Top side 0mm	802.11a	165/5825	99.53%	1.005	0.645	0.10	19.61	20.50	1.228	0.796	22.1
Back side 15mm	802.11a	157/5785	99.53%	1.005	0.752	0.08	19.63	20.50	1.221	0.923	22.1
Back side 15mm	802.11a	165/5825	99.53%	1.005	0.677	-0.16	19.61	20.50	1.228	0.835	22.1

	Wi-Fi 5G SAR Test Record FOR DBS													
	Test Record Ant 0													
Test position Test mode Test ch./Freq. Test position Test mode Test ch./Freq. Duty Cycle Cycle Scaled factor SAR (W/kg) 1-g Power drift (dB) Conducted Power(dBm) Tune up Limit(dBm) Scaled SAR 1-g (W/kg) factor Temp.(**														
				Test data d	of U-NII-2A S	Sensor On	(0mm)							
Back side	802.11a	60/5300	99.53%	1.005	0.910	0.03	8.98	8.00	0.798	0.730	22.1			
Back side	802.11a	52/5260	99.53%	1.005	0.869	0.00	8.90	8.00	0.813	0.710	22.1			
	Test data of U-NII-2A Sensor Off													



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Left side 0mm	802.11a	60/5300	99.53%	1.005	0.143	-0.04	17.66	17.00	0.859	0.123	22.1
Top side 0mm	802.11a	60/5300	99.53%	1.005	0.103	0.06	17.66	17.00	0.859	0.089	22.1
Back side 15mm	802.11a	60/5300	99.53%	1.005	0.834	0.09	17.66	17.00	0.859	0.720	22.1
Back side 15mm	802.11a	52/5260	99.53%	1.005	0.766	0.02	17.55	17.00	0.881	0.678	22.1
Test data of U-NII-2C Sensor On (0mm)											
Back side	802.11a	116/5580	99.53%	1.005	0.931	0.05	9.91	9.00	0.811	0.759	22.1
Back side-Repeat	802.11a	116/5580	99.53%	1.005	0.920	0.05	9.91	9.00	0.811	0.750	22.1
Back side	802.11a	100/5500	99.53%	1.005	0.864	0.04	9.85	9.00	0.822	0.714	22.1
		•		Test da	ata of U-NII-2	2C Sensor	Off				
Left side 0mm	802.11a	116/5580	99.53%	1.005	0.151	0.19	17.59	17.00	0.873	0.132	22.1
Top side 0mm	802.11a	116/5580	99.53%	1.005	0.115	0.04	17.59	17.00	0.873	0.101	22.1
Back side 15mm	802.11a	116/5580	99.53%	1.005	0.840	0.06	17.59	17.00	0.873	0.737	22.1
Back side 15mm	802.11a	100/5500	99.53%	1.005	0.741	-0.09	17.57	17.00	0.877	0.653	22.1
				Test data	of U-NII-3 S	ensor On	(0mm)				
Back side	802.11a	157/5785	99.53%	1.005	0.734	-0.07	8.90	8.50	0.912	0.673	22.1
Back side	802.11a	165/5825	99.53%	1.005	0.689	0.03	8.79	8.50	0.935	0.648	22.1
				Test d	lata of U-NII-	3 Sensor	Off				
Left side 0mm	802.11a	157/5785	99.53%	1.005	0.191	0.09	17.61	17.50	0.975	0.187	22.1
Top side 0mm	802.11a	157/5785	99.53%	1.005	0.159	0.01	17.61	17.50	0.975	0.156	22.1
Back side 15mm	802.11a	157/5785	99.53%	1.005	0.715	0.04	17.61	17.50	0.975	0.700	22.1
Back side 15mm	802.11a	165/5825	99.53%	1.005	0.665	-0.03	17.60	17.50	0.977	0.653	22.1
				,	Test Record	Ant 2					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle	SAR (W/kg)	Power drift	Conducted	Tune up	Scaled	Scaled SAR 1-g	Liquid
		01111111041	Cycle	Scaled factor	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃
		om, requ	•	factor		(dB)	, ,	Limit(dBm)	factor		Temp.(℃
Back side	802.11a	60/5300	•	factor	1-g	(dB)	, ,	Limit(dBm)	factor 0.867		Temp.(℃)
Back side Top side	802.11a 802.11a		•	factor Test data	of U-NII-2A	(dB) Sensor Off	(0mm)			(W/kg)	
		60/5300	99.53%	factor Test data	1-g of U-NII-2A 9 0.088	(dB) Sensor Off 0.07	(0mm) 15.12	14.50	0.867	(W/kg) 0.077	22.1
Top side	802.11a	60/5300	99.53% 99.53% 99.53%	Test data of 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803	(dB) Sensor Off 0.07 0.03 -0.04	(0mm) 15.12 15.12 15.10	14.50 14.50	0.867	0.077 0.699	22.1
Top side	802.11a	60/5300	99.53% 99.53% 99.53%	Test data of 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812	(dB) Sensor Off 0.07 0.03 -0.04	(0mm) 15.12 15.12 15.10	14.50 14.50	0.867	0.077 0.699	22.1
Top side Top side	802.11a 802.11a	60/5300 60/5300 52/5260	99.53% 99.53% 99.53%	factor Test data (1.005 1.005 1.005 Test data (1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$	(dB) Sensor Off 0.07 0.03 -0.04 Sensor Off	(0mm) 15.12 15.12 15.10 (0mm)	14.50 14.50 14.50	0.867 0.867 0.871	0.077 0.699 0.711	22.1 22.1 22.1
Top side Top side Back side	802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580	99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 Test data (1.005)	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093	(dB) Sensor Off 0.07 0.03 -0.04 Sensor Off 0.06	(0mm) 15.12 15.12 15.10 (0mm) 15.17	14.50 14.50 14.50	0.867 0.867 0.871	0.077 0.699 0.711	22.1 22.1 22.1 22.1
Top side Top side Back side Top side	802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580	99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 Test data (1.005) 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858	(dB) Sensor Off 0.07 0.03 -0.04 Sensor Off 0.06 0.09 0.07	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.17	14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857	0.077 0.699 0.711 0.080 0.739	22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side	802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580	99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 Test data (1.005) 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811	(dB) Sensor Off 0.07 0.03 -0.04 Sensor Off 0.06 0.09 0.07	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.17	14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857	0.077 0.699 0.711 0.080 0.739	22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side	802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500	99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 Test data (1.005) 1.005 1.005 1.005 Test data	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$	(dB) Sensor Off 0.07 0.03 -0.04 Sensor Off 0.06 0.09 0.07 ensor Off	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.17 15.16 (0mm)	14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859	0.077 0.699 0.711 0.080 0.739 0.700	22.1 22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side Back side	802.11a 802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500	99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 Test data (1.005) 1.005 1.005 Test data (1.005) Test data (1.005)	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$ 0.068	(dB) Gensor Off 0.07 0.03 -0.04 Gensor Off 0.06 0.09 0.07 ensor Off 0.05	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.16 (0mm) 15.34	14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859	0.077 0.699 0.711 0.080 0.739 0.700	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side Back side Top side	802.11a 802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500 157/5785	99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 Test data (1.005) 1.005 1.005 Test data (1.005) Test data (1.005)	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$ 0.068 0.849	(dB) Sensor Off 0.07 0.03 -0.04 Sensor Off 0.06 0.09 0.07 ensor Off 0.05 0.07	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.17 15.16 (0mm) 15.34	14.50 14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859	0.077 0.699 0.711 0.080 0.739 0.700	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side Back side Top side Top side Top side	802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500 157/5785 157/5785	99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$ 0.068 0.849 0.919	(dB) Gensor Off 0.07 0.03 -0.04 Gensor Off 0.06 0.09 0.07 ensor Off 0.05 0.07 0.08 0.01	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.17 15.16 (0mm) 15.34 15.34 15.29	14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859 0.824 0.824 0.834	0.077 0.699 0.711 0.080 0.739 0.700 0.056 0.703 0.770	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side Back side Top side Top side Top side	802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500 157/5785 157/5785	99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$ 0.068 0.849 0.919 0.905	(dB) Gensor Off 0.07 0.03 -0.04 Gensor Off 0.06 0.09 0.07 ensor Off 0.05 0.07 0.08 0.01	(0mm) 15.12 15.12 15.10 (0mm) 15.17 15.17 15.16 (0mm) 15.34 15.34 15.29	14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859 0.824 0.824 0.834	0.077 0.699 0.711 0.080 0.739 0.700 0.056 0.703 0.770	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side Back side Top side Top side Top side Top side Top side	802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500 157/5785 157/5785 165/5825 165/5825	99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$ 0.068 0.849 0.919 0.905 Test Record (W/kg)	(dB) Gensor Off 0.07 0.03 -0.04 Gensor Off 0.06 0.09 0.07 ensor Off 0.05 0.07 1 MIMO Power drift (dB)	(0mm) 15.12 15.10 (0mm) 15.17 15.17 15.16 (0mm) 15.34 15.29 15.29 Conducted Power(dBm)	14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859 0.824 0.824 0.834 0.834	0.077 0.699 0.711 0.080 0.739 0.700 0.056 0.703 0.770 0.758 Scaled SAR 1-g	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Top side Top side Back side Top side Top side Back side Top side Top side Top side Top side Top side	802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a 802.11a	60/5300 60/5300 52/5260 116/5580 116/5580 100/5500 157/5785 157/5785 165/5825 165/5825	99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%	Test data (1.005) 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.005	1-g of U-NII-2A \$ 0.088 0.803 0.812 of U-NII-2C \$ 0.093 0.858 0.811 of U-NII-3 \$ 0.068 0.849 0.919 0.905 Test Record \$AR (W/kg) 1-g	(dB) Gensor Off 0.07 0.03 -0.04 Gensor Off 0.06 0.09 0.07 ensor Off 0.05 0.07 1 MIMO Power drift (dB)	(0mm) 15.12 15.10 (0mm) 15.17 15.17 15.16 (0mm) 15.34 15.29 15.29 Conducted Power(dBm)	14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50	0.867 0.867 0.871 0.857 0.857 0.859 0.824 0.824 0.834 0.834	0.077 0.699 0.711 0.080 0.739 0.700 0.056 0.703 0.770 0.758 Scaled SAR 1-g	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1



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Back side	802.11a	52/5260	99.53%	1.005	0.894	0.16	16.03	15.00	0.789	0.709	22.1	
Test data of U-NII-2A Sensor Off												
Left side 0mm	802.11a	60/5300	99.53%	1.005	0.145	0.08	19.58	19.00	0.875	0.127	22.1	
Top side 0mm	802.11a	60/5300	99.53%	1.005	0.775	0.05	19.58	19.00	0.875	0.681	22.1	
Top side 0mm	802.11a	52/5260	99.53%	1.005	0.726	0.07	19.51	19.00	0.889	0.649	22.1	
Back side 15mm	802.11a	60/5300	99.53%	1.005	0.871	-0.02	19.58	19.00	0.875	0.766	22.1	
Back side 15mm	802.11a	52/5260	99.53%	1.005	0.856	0.03	19.51	19.00	0.889	0.765	22.1	
				Test data	of U-NII-2C S	Sensor On	(0mm)					
Back side	802.11a	116/5580	99.53%	1.005	0.923	0.03	16.30	15.50	0.832	0.771	22.1	
Back side	802.11a	100/5500	99.53%	1.005	0.907	0.01	16.28	15.50	0.836	0.761	22.1	
	Test data of U-NII-2C Sensor Off											
Left side 0mm	802.11a	116/5580	99.53%	1.005	0.169	0.15	19.56	19.00	0.879	0.149	22.1	
Top side 0mm	802.11a	116/5580	99.53%	1.005	0.824	0.08	19.56	19.00	0.879	0.728	22.1	
Top side 0mm	802.11a	100/5500	99.53%	1.005	0.793	0.04	19.54	19.00	0.883	0.704	22.1	
Back side 15mm	802.11a	116/5580	99.53%	1.005	0.871	-0.11	19.56	19.00	0.879	0.769	22.1	
Back side 15mm	802.11a	100/5500	99.53%	1.005	0.846	-0.08	19.54	19.00	0.883	0.751	22.1	
				Test data	of U-NII-3 S	ensor On ((0mm)				•	
Back side	802.11a	157/5785	99.53%	1.005	0.761	0.01	16.23	16.00	0.949	0.725	22.1	
Back side	802.11a	165/5825	99.53%	1.005	0.697	0.05	16.17	16.00	0.962	0.674	22.1	
	Test data of U-NII-3 Sensor Off											
Left side 0mm	802.11a	157/5785	99.53%	1.005	0.243	0.05	19.63	19.00	0.865	0.211	22.1	
Top side 0mm	802.11a	157/5785	99.53%	1.005	0.744	0.06	19.63	19.00	0.865	0.646	22.1	
Top side 0mm	802.11a	165/5825	99.53%	1.005	0.645	0.10	19.61	19.00	0.870	0.564	22.1	
Back side 15mm	802.11a	157/5785	99.53%	1.005	0.752	0.08	19.63	19.00	0.865	0.653	22.1	
Back side 15mm	802.11a	165/5825	99.53%	1.005	0.677	-0.16	19.61	19.00	0.870	0.591	22.1	

Table 8: SAR of WIFI 5G for Body.

Note:

- 1) 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. As 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;
- 2) Per KDB248227D01,as the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(3)	SAR (1g)		SAR (1g)	SAR (1g)	
Back side	60/5300	0.917	0.912	1.005	N/A	N/A	
Back side	116/5580	0.931	0.920	1.012	N/A	N/A	
Top side	165/5825	0.919	0.905	1.015	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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6.3.1 SAR Result of BT

	Bluetooth SAR Test Record											
	Test Record Ant 0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)	
	•	•		Hotspot	Test data (Separate 0)mm)					
Back side	DH5	39/2441	76.86%	1.301	0.579	0.05	15.77	16.00	1.054	0.794	22.6	
Left side	DH5	39/2441	76.86%	1.301	0.062	0.09	15.77	16.00	1.054	0.085	22.6	
Top side	DH5	39/2441	76.86%	1.301	0.027	-0.05	15.77	16.00	1.054	0.037	22.6	
					Test Recor	d Ant 1						
Lest position											Liquid Temp.(℃)	
	Hotspot Test data (Separate 0mm)											
Back side	DH5	39/2441	76.86%	1.301	0.001	0.01	15.41	16.00	1.146	0.001	22.6	
Left side	DH5	39/2441	76.86%	1.301	0.103	0.08	15.41	16.00	1.146	0.154	22.6	

Table 9: SAR of BTor Body.



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6.4 Multiple Transmitter Evaluation

6.4.1 Simultaneous SAR SAR test evaluation

1) Simultaneous Transmission

Cilitatiane Cas Transmission										
NO.	Simultaneous Transmission Configuration	Body								
1	WLAN2.4G Ant0+BT	No								
2	WLAN2.4G Ant1+BT	No								
3	WLAN2.4G Ant0+WLAN 2.4G Ant1	Yes								
4	WLAN2.4G Ant0+WLAN 2.4G Ant1+BT	No								
5	WLAN5G Ant0+BT	Yes								
6	WLAN5G Ant2+BT	Yes								
7	WLAN5G Ant0+WLAN5G Ant2	Yes								
8	WLAN5G Ant0+WLAN5G Ant2+BT	Yes								
9	WLAN2.4G Ant0+WLAN5G Ant0	Yes								
10	WLAN2.4G Ant1+WLAN5G Ant2	Yes								
11	WLAN2.4G MIMO+WLAN5G MIMO	Yes								

6.4.2 Simultaneous Transmission SAR Summation Scenario

		SARmax (W/kg)											
Test position	WiFi 2.4G MIMO	WiFi 5G MIMO	WiFi 5G ANT0	WiFi 5G ANT2	BT ANT0	BT ANT1			Su	mmed S	AR		
	1	2	3	4	5	6	1+2 2+5 2+6 3+5 3+6 4+5				4+5	4+6	
Back side	0.741	0.771	0.759	0.080	0.794	0.001	1.512	1.565	0.772	1.553	0.760	0.874	0.081
Left side	0.389	0.211	0.187	0.400	0.085	0.154	0.600	0.296	0.365	0.272	0.341	0.485	0.554
Right side	0.400	0.400	0.400	0.400	0.400	0.400	0.800	0.800	0.800	0.800	0.800	0.800	0.800
Top side	0.090	0.728	0.156	0.770	0.037	0.400	0.818	0.765	1.128	0.193	0.556	0.807	1.170
Bottom side	0.400	0.400	0.400	0.400	0.400	0.400	0.800	0.800	0.800	0.800	0.800	0.800	0.800
Back side-15mm	0.329	0.769	0.737	0.400	0.400	0.400	1.098	1.169	1.169	1.137	1.137	0.800	0.800

Test position		SARma	0 1045			
	WiFi 2.4G ANT0	WiFi 2.4G ANT1	WiFi 5G ANT0	WiFi 5G ANT2	Summe	ed SAR
	1	2	3	4	1+4	2+3
Back side	1.033	0.076	1.072	0.113	1.146	1.148
Left side	0.260	0.597	0.236	0.400	0.660	0.833
Right side	0.400	0.400	0.400	0.400	0.800	0.800
Top side	0.146	0.400	0.196	1.072	1.218	0.596
Bottom side	0.400	0.400	0.400	0.400	0.800	0.800
Back side-15mm	0.403	0.400	1.041	0.400	0.803	1.441

Note:

- 1.) Select the worst SAR instantaneous transmission for each location
- According to the declaration letter from manufacturer, WLAN2.4G Ant0+ WLAN2.4G Ant1= WLAN2.4G MIMO, WLAN5G Ant0+ WLAN5G Ant2= WLAN5G MIMO, Select the MIMO Cover SISO SAR instantaneous transmission



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7 Equipment list

_													
	Test Platform SPEAG DASY5 Professional												
	Description	SAR Test System	(Frequency rang	e 300MHz-6GHz)									
	Software Reference	DASY52 52.10.4(1527); SEMCAD	X 14.6.14(7483)									
	Hardware Reference												
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration							
\boxtimes	Twin Phantom	SPEAG	SAM3	1770	NCR	NCR							
\boxtimes	DAE	SPEAG	DAE4	1428	2022-04-27	2023-04-26							
\boxtimes	E-Field Probe	SPEAG	EX3DV4	7735	2022-08-09	2023-08-08							
\boxtimes	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07							
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24							
	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2022-05-30	2023-05-29							
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2022-05-23	2023-05-22							
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR							
\boxtimes	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05							
\boxtimes	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR							
\boxtimes	Power Sensor	Keysight	U2002H	MY5639004	2022-09-16	2023-09-15							
\boxtimes	Power Sensor	Keysight	U2002H	MY48200110	2022-12-23	2023-12-22							
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR							
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR							
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR							
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR							
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2022-09-19	2023-09-18							
\boxtimes	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-09-19	2023-09-18							

Note: All the equipments are within the valid period when the tests are performed.



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8 Measurement Uncertainty

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 Std 1528-2013 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.

9 Calibration certificate

Please see the Appendix C

10 Photographs

Please see the Appendix D



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Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs



