

 Report No.:
 SUCR240800029701

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FCC SAR TEST REPORT

| Application No.: | SUCR2408000297AT |
|------------------|----------------------------------|
| Applicant: | SZ DJI Osmo Technology Co., Ltd. |
| Manufacturer: | SZ DJI Osmo Technology Co., Ltd. |
| Product Name: | DJI Osmo 360 |
| Model No.(EUT): | OQ001 |
| Trade Mark: | DJI |
| FCC ID: | 2ANDR-OQ0012024 |
| Standards: | FCC 47CFR §2.1093 |
| Date of Receipt: | 2024-08-13 |
| Date of Test: | 2024-09-01 to 2024-09-06 |
| Date of Issue: | 2024-09-07 |
| Test Result: | PASS * |

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

eon Liu

Prepared by : Leon Liu/ Project Manager

Nick Mu

Approved by : Nick HU/ Technical Manager (Title)

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REVISION HISTORY

| Report Number | Revision | Description | Issue Date |
|------------------|----------|-------------|------------|
| SUCR240800029701 | 01 | Original | 2024-9-7 |
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TEST SUMMARY

| | Maximum Reported SAR(W/kg) | | |
|-------------------|--|------|-----------------------------|
| Frequency Band | Head | Body | Product specific 10g SAR |
| WI-FI (2.4GHz) | 0.30 | 0.30 | 1.65 |
| WI-FI (5GHz) | 0.86 | 0.86 | 1.97 |
| BT | 0.09 | 0.09 | 0.39 |
| SAR Limited(W/kg) | 1.6 | | 4.0 |
| Maximum Si | Maximum Simultaneous Transmission SAR (W/kg) | | |
| Scenario | Head | Body | Product specific 10g SAR |
| Sum SAR | 0.63 | 0.63 | 2.36 |
| SPLSR | / | / | / |
| SPLSR Limited | 0.04 | | 0.1 |

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1 General Information

1.1 Details of Client

| Applicant: | SZ DJI Osmo Technology Co., Ltd. | |
|---------------|---|--|
| Address: | Room S11, Floor 23, Tower 1, DJI Sky City, No.55 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen | |
| Manufacturer: | SZ DJI Osmo Technology Co., Ltd. | |
| Address: | Room S11, Floor 23, Tower 1, DJI Sky City, No.55 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen | |

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 | |

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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 Phase: | Production unit | | |
|--------------------------------|--|---|-----------|
| Device Type: | Portable device | | |
| Exposure Category: | Uncontrolled environ | ment / general population | |
| SN: | 95SDM6M0000072 | | |
| Hardware Version: | V01.00.00.00 | | |
| Software Version: | V01.00.00.00 | | |
| Antenna Gain: | 2.4G Wi-Fi: ANT0: 0.87dBi, ANT1: 0.85dBi; 5G Wi-Fi: ANT0: 1.08dBi, ANT1: 1.04dBi; 5.8G Wi-Fi: ANT0: 1.34dBi, ANT1: 1.32dBi BT: 0.87dBi; BLE: 0.87dBi; | | |
| Antenna Type: | FPC Antenna | | |
| Device Operating Configuration | IS: | | |
| Modulation Mode: | WIFI: DSSS, OFDM; | BT: GFSK, π/4DQPSK,8DPS | K |
| | Band | Tx (MHz) | Rx (MHz) |
| | WIFI(2.4GHz) | 2412~2462 | 2412~2462 |
| Frequency Bands: | WIFI(U-NII-1) | 5150~5250 | 5150~5250 |
| | WIFI(U-NII-3) | 5725~5850 | 5725~5850 |
| | BT | 2402~2480 | 2402~2480 |
| | Model: | BCX204-1950-3.87 | |
| | Normal Voltage : | 3.87V | |
| Battery Information: | Rated capacity : | 1950mAh 7.55Wh | |
| | Battery Type : | Lithium Ion Rechargeable Ba | |
| | Manufacturer | Guangdong Highpower New Energy Technology Co., Ltd. | |

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1.5 Test Specification

| Identity | Document Title |
|----------------------|---|
| FCC 47CFR §2.1093 | Radiofrequency Radiation Exposure Evaluation: Portable Devices |
| ANSI/IEEE 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 | SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02 |
| KDB 447498 D01 | General RF Exposure Guidance v06 |
| KDB 865664 D01 | SAR Measurement 100 MHz to 6 GHz v01r04 |

Remark: KDB 248227 D01 is not accredited by A2LA

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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:

* 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.

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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Laboratory Environment 2

| Temperature | Min. = 18°C, Max. = 25 °C | |
|---|---------------------------|--|
| Relative humidity | Min. = 30%, Max. = 70% | |
| Ambient noise is checked and found very low and in compliance with requirement of standards. | | |
| Reflection of surrounding objects is minimized and in compliance with requirement of standards. | | |
| Table 1: The Ambient Conditions | | |

Table 1 : The Ambient Conditions

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3 SAR Measurements System Configuration

3.1 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.

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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.

3.2 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 calibration service 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 |

3.3 Data Acquisition Electronics (DAE)

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| 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. | - A |
| Measurement Range | -100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV) | - |
| Input Offset Voltage | < 5µV (with auto zero) | 1 |
| Input Bias Current | < 50 f A | |
| Dimensions | 60 x 60 x 68 mm | |

3.4 SAM Twin Phantom

| Material | Vinylester, glass fiber reinforced (VE-GF) | - n - 1 |
|---|---|---------|
| 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) | I I I |
| Dimensions (incl. Wooden Support) | Length: 1000mm Width: 500mm 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 IEC 62209-1528. 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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3.5 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 | |
| | 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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3.6 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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3.7 Measurement procedure

3.7.1 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 $30mm^*30mm^*30mm$ (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points ($\leq 2GHz$) and 7x7x7 points ($\geq 2GHz$). 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 straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline 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 IEC 62209-1528.

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| | | | \leq 3 GHz | > 3 GHz |
|---|--|---|--|---|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | | 5 ± 1 mm | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$ | |
| Maximum probe angle surface normal at the n | - | - | 30°±1° | 20°±1° |
| Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area} | | ≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm | 3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm | |
| | | When the x or y dimension o measurement plane orientation the measurement resolution m x or y dimension of the test d measurement point on the test | on, is smaller than the above, must be \leq the corresponding evice with at least one | |
| Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom} | | $\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^*$ | 3 – 4 GHz: ≤ 5 mm [*] 4 – 6 GHz: ≤ 4 mm [*] | |
| | uniform grid: $\Delta z_{Zoom}(n)$ | | \leq 5 mm | $\begin{array}{l} 3-4 \ \mathrm{GHz:} \leq 4 \ \mathrm{mm} \\ 4-5 \ \mathrm{GHz:} \leq 3 \ \mathrm{mm} \\ 5-6 \ \mathrm{GHz:} \leq 2 \ \mathrm{mm} \end{array}$ |
| Maximum zoom scan spatial resolution, normal to phantom surface graded grid | $\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface | \leq 4 mm | 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm | |
| | Δz _{Zoom} (n>1): between subsequent points | $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ | | |
| Minimum zoom scan volume | x, y, z | · | ≥ 30 mm | 3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm |
| P1528-2011 for of * When zoom scan is KDB 447498 is ≤ 1. | letails. required ar 4 W/kg, ≤ | nd the <u>reported</u> SAR fro | I incidence to the tissue mediu m the <i>area scan based 1-g SAI</i> mm zoom scan resolution may | R estimation procedures of |

2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

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. ± 5 %

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3.7.2 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.

3.7.3 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 factor ConvFi | |
| - Diode compression point Dcpi | |
| Device parameters: - Frequency | f |
| - Crest factor cf | |
| Media parameters: - Conductivity | 3 |
| - 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)

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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:

 $\begin{array}{l} H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f \\ \text{With} \quad \text{Vi = compensated signal of channel i} \\ \text{Normi = sensor sensitivity of channel I} \\ (\text{i} = x, y, z) \\ \text{[mV/(V/m)2] for E-field Probes} \\ \text{ConvF = sensitivity enhancement in solution} \\ \text{aij = sensor sensitivity factors for H-field probes} \\ \text{f = carrier frequency [GHz]} \\ \text{Ei = electric field strength of channel i in V/m} \end{array}$

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.

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

with 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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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is \ge 1.45 W/kg (~ 10% from the 1-g SAR limit).

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

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

4.2 SAR 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.

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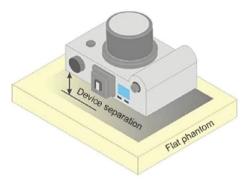
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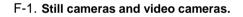
5 Description of Test Position

5.1 Test Position

5.1.1 Front-of-face device.

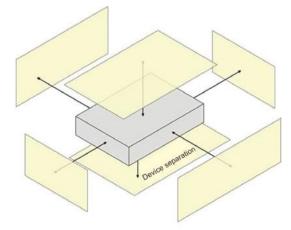
A typical example of a front-of-face device is a two-way radio that is held at a close distance from the face of the user while transmitting. Other devices that fall into this category include wireless-enabled still cameras and video cameras capable of sending data to a network or other device (F-1). According to the customer's claimed actual usage scenario, the Front of face test distance is 10mm.





5.1.2 Generic device.

According to the manufacturer's claim this is represented by a closed box incorporating at least one internal RF transmitter and antenna. The generic device principle may be applied to any device. According to the customer's claimed actual usage scenario, the test distance is 10mm.



F-2. Possible test positions for a generic device.

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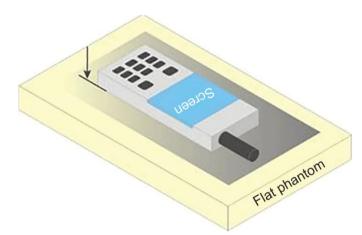
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5.1.3 Hand-held devices.

When SAR measurement is necessary for hand-held devices that do not transmit while at the head or torso, a flat phantom may be used. To assess this type of device, the device shall be placed directly against the flat phantom as shown in Figure 3, for the sides of the device that are in contact with the hand for the intended use.

NOTE Concerning a measurement phantom representing the hand, there are practical difficulties in specifying a unique hand holding position that is applicable to all devices. Additional studies are needed for devising a representative method for evaluating SAR in the hand of hand-held devices (whether or not they are hand-operated devices). Future versions of this document are intended to contain a test method based on scientific data and rationale.

According to the manufacturer's statement, the device is a handheld device in normal use. Considering its intended use, the testing distance is 0mm, with a limit of 10g and 4.0W/Kg.



F-3. Figure 3 – Test position for hand-held devices, not used at the head or torso.

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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 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) | 450 | 700-900 | 1800-2000 | 2300-2500 | 2500-2700 |
| Water | 38.56 | 40.30 | 55.24 | 55.00 | 54.92 |
| Salt (NaCl) | 3.95 | 1.38 | 0.31 | 0.2 | 0.23 |
| Sucrose | 56.32 | 57.90 | 0 | 0 | 0 |
| HEC | 0.98 | 0.24 | 0 | 0 | 0 |
| Bactericide | 0.19 | 0.18 | 0 | 0 | 0 |
| Tween | 0 | 0 | 44.45 | 44.80 | 44.85 |
| Salt: 99*% Pure Sodium ChlorideSucrose: 98*% Pure SucroseWater: De-ionized, 16 MΩ+ resistivityHEC: Hydroxyethyl CelluloseTween: Polyoxymethylene (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 2: Recipe of Tissue Simulate Liquid

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6.1.2 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.

| Measurement for Tissue Simulate Liquid | | | | | | | |
|---|--------------------|-------|--------|--------|--------|--------------|----------|
| Measured Target Tissue (±5%) Measured Tissue Liquid | | | | | | Test | |
| Туре | Frequency (MHz) | ٤r | σ(S/m) | ٤r | σ(S/m) | Temp. (℃) | Date |
| 2450 Head | 2450 | 39.20 | 1.80 | 38.744 | 1.809 | 22.8 | 2024/9/1 |
| 5250 Head | 5250 | 35.90 | 4.71 | 36.853 | 4.844 | 23.1 | 2024/9/4 |
| 5750 Head | 5750 | 35.40 | 5.22 | 35.523 | 5.424 | 23.1 | 2024/9/6 |

Table 3 : Measurement result of Tissue electric parameters

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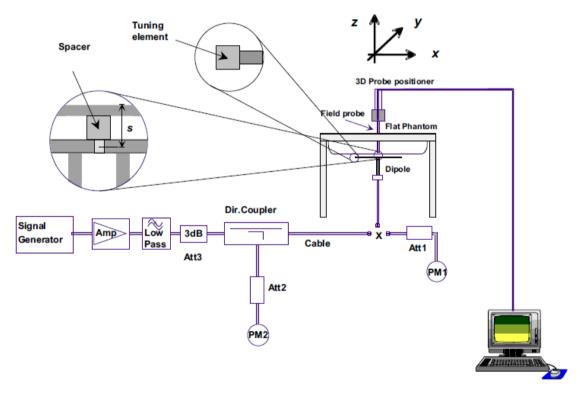
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6.2 SAR System Check

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 $22\pm2^{\circ}$ 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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6.2.1 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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6.2.2 Summary System Validation Result(s)

| SAR System Validation Result(s) | | | | | | | | | | | | | | | | | | |
|---------------------------------|---------------|--------------------------|--------------------------|--|----------------|-------------|---|-----------------------------|----------------|------------------------|-----------|-----------|--|---------------|--|--|--|-----------|
| Validation Kit | | Measured SAR 250mW | Measured SAR 250mW | Measured SAR (normalized to 1W) | | (normalized | Target SAR (normalized to 1W) (±10%) | Deviation (Within ±10%) | | Deviation | | Deviation | | (Within +10%) | | | | Test Date |
| | | 1g (W/kg) | 10g (W/kg) | 1g (W/kg) | 10g (W/kg) 1-g | 1-g(W/kg) | 10-g(W/kg) | 1- g(W/kg) | 10- g(W/kg) | • • | | | | | | | | |
| D2450V2 | Head | 13.00 | 6.08 | 52.00 | 24.32 | 52.7 | 24.6 | -1.33% | -1.14% | 22.8 | 2024/9/1 | | | | | | | |
| Vali | dation Kit | Measured SAR 100mW | Measured SAR 100mW | Measured SAR (normalized to 1W) | | (normalized | Target SAR (normalized to 1W) (±10%) | | | Liquid Temp. (℃) | 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) | 10- g(W/kg) | | | | | | | | | |
| | Head(5.25GHz) | 8.17 | 2.36 | 81.70 | 23.60 | 77.2 | 21.9 | 5.83% | 7.76% | 23.1 | 2024/9/4 | | | | | | | |
| | Head(5.75GHz) | 8.04 | 2.30 | 80.40 | 23.00 | 77.8 | 21.7 | 3.34% | 5.99% | 23.1 | 2024/9/6 | | | | | | | |

Table 4 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A

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7 Test Configuration

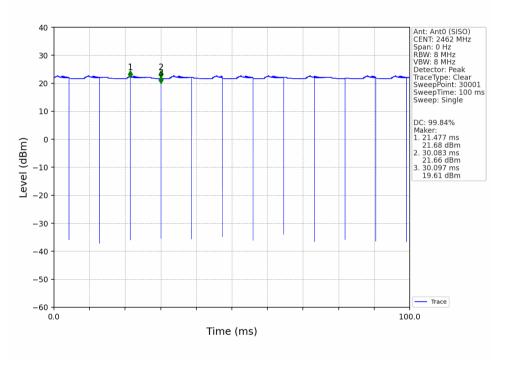
7.1 Operation Configurations

7.2.1 Wi-Fi 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.

7.1.1.1 Duty cycle

Wi-Fi 2.4GHz 802.11b: Duty cycle=99.84%



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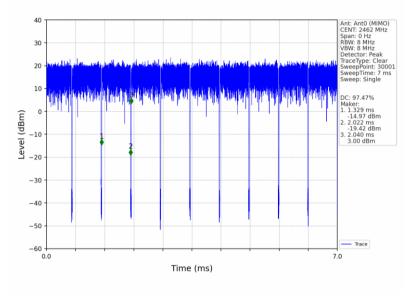
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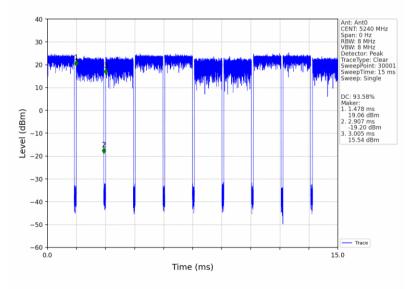


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Wi-Fi 2.4GHz 802.11n HT20: Duty cycle=97.47%



Wi-Fi 5GHz 802.11a 5240MHz: Duty cycle=93.58%



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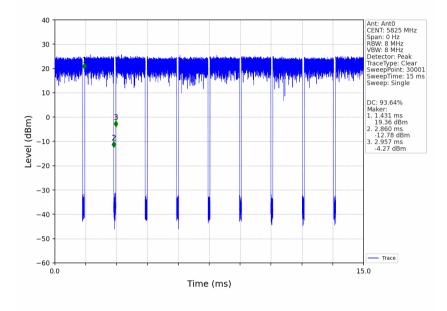


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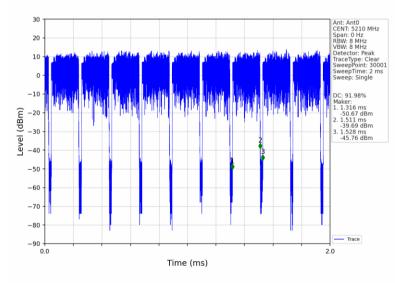
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Wi-Fi 5GHz 802.11a 5825MHz: Duty cycle=93.64%



Wi-Fi 5GHz 802.11ac VHT80 5210MHz: Duty cycle=91.98%



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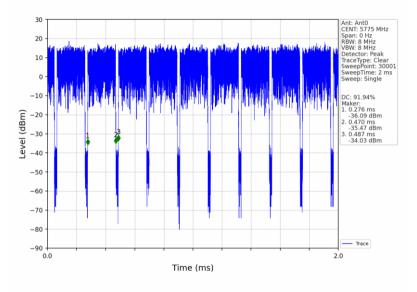
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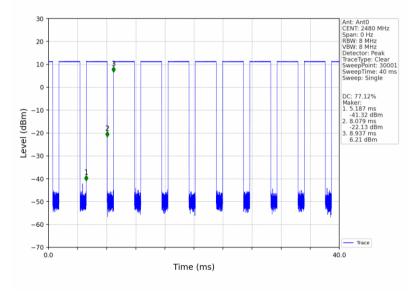


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Wi-Fi 5GHz 802.11ac VHT80 5775MHz: Duty cycle=91.94%



Bluetooth DH5: Duty cycle=77.12%



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7.1.1.2 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.

7.1.1.3 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 \leq 1.2 W/kg or all required channels are tested.

7.1.1.4 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.

1). When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR

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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.

- 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.
 - a) 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:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"

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7.1.1.5 2.4 GHz WiFi 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.

• SAR Test Requirements for OFDM configurations

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

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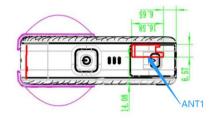
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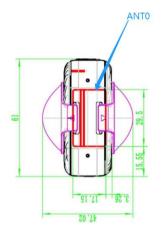
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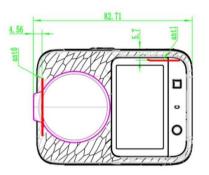


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7.1.2 DUT Antenna Locations







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7.2 Measurement of RF conducted Power

| WIFI 2.4G Ant0 | | | | | | |
|------------------|---------|----------------|-----------------|------------------------|---------|--|
| Mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | |
| | 1 | 2412 | | 17.49 | 18.50 | |
| 802.11b | 6 | 2437 | 1 | 17.83 | 18.50 | |
| | 11 | 2462 | | 17.99 | 18.50 | |
| | 1 | 2412 | | 14.63 | 15.00 | |
| 802.11g | 6 | 2437 | 6 | 17.47 | 18.00 | |
| | 11 | 2462 | | 17.32 | 18.00 | |
| | 1 | 2412 | | 13.48 | 14.00 | |
| 802.11n HT20 | 6 | 2437 | 6.5 | 13.33 | 14.00 | |
| | 11 | 2462 | | 13.33 | 14.00 | |
| | 1 | 2412 | | 13.29 | 14.00 | |
| 802.11ax HE20 | 6 | 2437 | MCS0 | 13.50 | 14.00 | |
| | 11 | 2462 | | 13.63 | 14.00 | |

| WIFI 2.4G Ant1 | | | | | | |
|------------------|---------|----------------|-----------------|------------------------|---------|--|
| Mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | |
| | 1 | 2412 | | 17.65 | 18.50 | |
| 802.11b | 6 | 2437 | 1 | 17.66 | 18.50 | |
| | 11 | 2462 | | 17.82 | 18.50 | |
| | 1 | 2412 | | 12.57 | 13.00 | |
| 802.11g 6 11 | 6 | 2437 | 6 | 17.64 | 18.00 | |
| | 11 | 2462 | | 17.57 | 18.00 | |
| | 1 | 2412 | | 11.28 | 12.00 | |
| 802.11n HT20 | 6 | 2437 | 6.5 | 11.79 | 12.00 | |
| | 11 | 2462 | | 12.85 | 14.00 | |
| | 1 | 2412 | | 11.04 | 12.00 | |
| 802.11ax HE20 | 6 | 2437 | MCS0 | 11.94 | 13.00 | |
| | 11 | 2462 | | 13.10 | 14.00 | |

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| WIFI 2.4G MIMO | | | | | | | |
|------------------|---------|----------------|--------------------|---------------------------|---------------------------|---------------------------|---------|
| Mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
| | 1 | 2412 | | / | / | / | / |
| 802.11b | 6 | 2437 | 1 | / | / | / | / |
| | 11 | 2462 | | / | / | / | / |
| | 1 | 2412 | | / | / | / | / |
| 802.11g | 6 | 2437 | 6 | / | / | / | / |
| | 11 | 2462 | | / | / | / | / |
| | 1 | 2412 | | 13.48 | 11.28 | 15.53 | 17.00 |
| 802.11n HT20 | 6 | 2437 | 6.5 | 13.33 | 11.79 | 15.64 | 17.00 |
| | 11 | 2462 | | 13.33 | 12.85 | 16.11 | 17.00 |
| | 1 | 2412 | | 13.29 | 11.04 | 15.32 | 17.00 |
| 802.11ax HE20 | 6 | 2437 | MCS0 | 13.50 | 11.94 | 15.80 | 17.00 |
| | 11 | 2462 | | 13.63 | 13.10 | 16.38 | 17.00 |

| WIFI 5G Ant0 | | | | | | |
|---------------|----------|---------|----------------|-----------------|------------------------|---------|
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 15.82 | 17.00 |
| | U-NII-1 | 40 | 5200 | | 15.90 | 17.00 |
| 802.11a | | 48 | 5240 | 6 | 16.33 | 17.00 |
| 602.11a | | 149 | 5745 | | 15.78 | 16.00 |
| | U-NII-3 | 157 | 5785 | | 15.73 | 16.00 |
| | | 165 | 5825 | | 15.81 | 16.00 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 13.44 | 15.00 |
| | U-NII-1 | 40 | 5200 | | 14.25 | 15.00 |
| 802.11n-HT20 | | 48 | 5240 | MCS0 | 14.62 | 15.00 |
| 002.1111-H120 | | 149 | 5745 | MCS0 | 14.99 | 15.50 |
| | U-NII-3 | 157 | 5785 | | 14.87 | 15.50 |
| | | 165 | 5825 | | 14.91 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | U-NII-1 | 38 | 5190 | MCS0 | 15.44 | 16.00 |
| 802.11n-HT40 | U-INII-I | 46 | 5230 | | 15.83 | 16.00 |
| | U-NII-3 | 151 | 5755 | | 14.97 | 15.50 |

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| | | 159 | 5795 | | 14.91 | 15.50 |
|----------|----------|---------|----------------|-----------------|------------------------|---------|
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 14.55 | 15.00 |
| | U-NII-1 | 40 | 5200 | | 14.57 | 15.00 |
| 802.11ac | | 48 | 5240 | MCS0 | 15.07 | 15.50 |
| VHT20 | | 149 | 5745 | WCS0 | 14.85 | 15.50 |
| | U-NII-3 | 157 | 5785 | | 14.92 | 15.50 |
| | | 165 | 5825 | | 14.89 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | U-NII-1 | 38 | 5190 | | 15.43 | 16.00 |
| 802.11ac | U-INII-1 | 46 | 5230 | MCS0 | 15.76 | 16.00 |
| VHT40 | U-NII-3 | 151 | 5755 | MC30 | 14.94 | 15.50 |
| | 0-111-5 | 159 | 5795 | | 14.85 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| 802.11ac | U-NII-1 | 42 | 5210 | MCS0 | 15.28 | 16.00 |
| VHT80 | U-NII-3 | 155 | 5775 | WC30 | 14.95 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 14.61 | 16.00 |
| | U-NII-1 | 40 | 5200 | | 14.99 | 16.00 |
| 802.11ax | | 48 | 5240 | MCSO | 12.75 | 14.00 |
| HEW20 | | 149 | 5745 | MCS0 | 14.77 | 15.50 |
| | | 157 | 5785 | | 14.85 | 15.50 |
| | | 165 | 5825 | | 14.71 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | U-NII-1 | 38 | 5190 | | 15.35 | 16.00 |
| 802.11ax | U-INII-I | 46 | 5230 | MOSO | 15.73 | 16.00 |
| HEW40 | | 151 | 5755 | MCS0 | 14.76 | 15.50 |
| | U-NII-3 | 159 | 5795 | | 14.84 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| 802.11ax | U-NII-1 | 42 | 5210 | MCS0 | 15.40 | 16.00 |
| HEW80 | U-NII-3 | 155 | 5775 | WICOU | 14.96 | 15.50 |

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| | | | WIFI 5G Ant1 | | | |
|------------------------|----------|---------|----------------|-----------------|------------------------|---------|
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 15.87 | 17.00 |
| U-NI | U-NII-1 | 40 | 5200 | | 15.71 | 17.00 |
| 000 44- | | 48 | 5240 | 6 | 15.89 | 17.00 |
| 802.11a | | 149 | 5745 | | 15.66 | 16.00 |
| | U-NII-3 | 157 | 5785 | | 15.64 | 16.00 |
| | | 165 | 5825 | | 15.98 | 16.00 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 14.46 | 15.00 |
| | U-NII-1 | 40 | 5200 | | 13.80 | 15.00 |
| 802.11n-HT20 | | 48 | 5240 | MCS0 | 14.21 | 15.00 |
| 802.1111- П 120 | | 149 | 5745 | WCS0 | 12.78 | 14.00 |
| | U-NII-3 | 157 | 5785 | | 12.91 | 14.00 |
| | | 165 | 5825 | | 12.88 | 14.00 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | U-NII-1 | 38 | 5190 | MCS0 | 15.00 | 16.00 |
| 802.11n-HT40 | U-INII-1 | 46 | 5230 | | 15.41 | 16.00 |
| 002.1111-H140 | U-NII-3 | 151 | 5755 | | 14.83 | 15.50 |
| | 0-111-5 | 159 | 5795 | | 14.79 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 15.55 | 16.00 |
| | U-NII-1 | 40 | 5200 | | 15.28 | 16.00 |
| 802.11ac | | 48 | 5240 | MCS0 | 15.91 | 16.00 |
| VHT20 | | 149 | 5745 | MC30 | 12.81 | 14.00 |
| | U-NII-3 | 157 | 5785 | | 12.94 | 14.00 |
| | | 165 | 5825 | | 12.76 | 14.00 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | U-NII-1 | 38 | 5190 | | 15.01 | 16.00 |
| 802.11ac | U-INII-I | 46 | 5230 | MCS0 | 15.34 | 16.00 |
| VHT40 | U-NII-3 | 151 | 5755 | WC30 | 14.91 | 15.50 |
| | 0-1111-3 | 159 | 5795 | | 14.87 | 15.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| | U-NII-1 | 42 | 5210 | MCS0 | 14.86 | 16.00 |

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| 802.11ac VHT80 | | U-N | II-3 | 155 5775 | | | 14.64 | 15.50 | | | | |
|-------------------|---------|---------|------|----------|----------|---------|--------------------|---------------------------|--------------------|------------------------|---------------------------|---------|
| Mode | | 5G | Hz | С | hannel | Frec | juency(MHz) | Data Rate(| Mbps) | | age Power (dBm) | Tune up |
| | | | | | 36 | | 5180 | | | | 15.87 | 16.00 |
| | | U-N | II-1 | | 40 | | 5200 | | | 15.80 | | 16.00 |
| 802.11ax | | | | | 48 | | 5240 | MOO | | | 13.95 | 14.00 |
| HEW20 | | | | | 149 | | 5745 | - MCS |) | | 12.89 | 14.00 |
| | | | | | 157 | | 5785 | | | | 12.94 | 14.00 |
| | | | | | 165 | | 5825 | | | | 12.83 | 14.00 |
| Mode | | 5G | Hz | С | hannel | Fred | Frequency(MHz) | | Mbps) | | age Power (dBm) | Tune up |
| | | | | | 38 | | 5190 | | | | 14.94 | 16.00 |
| 802.11ax | | U-N | 11-1 | 46 | | 5230 | | | | 15.31 | 16.00 | |
| HEW40 | Ē | | | | 151 | | 5755 | - MCS | J | | 14.91 | 15.50 |
| | | U-N | 11-3 | | 159 | | 5795 | | | | 14.78 | 15.50 |
| Mode | | 5G | Hz | С | hannel | Frec | juency(MHz) | Data Rate(| Mbps) | Average Power (dBm) | | Tune up |
| 802.11ax | | U-N | II-1 | | 42 | | 5210 | MCS | ` | | 14.98 | 16.00 |
| HEW80 | | U-N | II-3 | | 155 | | 5775 | NCSC |) | | 14.64 | 15.50 |
| | | | | | | WI | FI 5G MIMO | | | | | |
| Mode | 50 | GHz | Cha | nnel | Frequenc | cy(MHz) | Data Rate(Mbps) | Average Power (dBm) | Aver Pov (dB | ver | Average Power (dBm) | Tune u |
| | | | 3 | 6 | 518 | 30 | | / | / | | / | / |
| | U-I | U-NII-1 | | 40 | | 00 |] Γ | / | / | | / | / |
| | | | 4 | 8 | 524 | 40 | 6 | / | / | | / | / |
| 802.11a | | | 14 | 19 | 574 | 45 | 5 | | / | | / | / |
| | U-I | NII-3 | 15 | 57 | 578 | 35 | | / | / | | / | / |
| | | | 16 | 65 | 582 | 25 | | / | / | | / | / |
| Mode | 50 | GHz | Cha | nnel | Frequenc | cy(MHz) | Data Rate(Mbps) | Average Power (dBm) | Aver Pov (dB | ver | Average Power (dBm) | Tune u |
| | | | 3 | 6 | 518 | 30 | | 13.44 | 14. | 46 | 16.99 | 18.00 |
| | U-I | NII-1 | 4 | 0 | 520 | 00 | | 14.25 | 13. | 80 | 17.04 | 18.00 |
| 802.11n- | | | 4 | 8 | 524 | 40 | MCGO | 14.62 | 14. | 21 | 17.43 | 18.00 |
| HT20 | | | 14 | 9 | 574 | 45 | MCS0 | 14.99 | 12. | 78 | 17.03 | 18.50 |
| | U-I | NII-3 | 15 | 57 | 578 | 35 | | 14.87 | 12. | 91 | 17.01 | 18.50 |
| | | | 16 | 65 | 582 | 25 | | 14.91 | 12. | 88 | 17.02 | 18.50 |
| Mode | 50 | GHz | Cha | nnel | Frequenc | cy(MHz) | Data Rate(Mbps) | Average Power (dBm) | Aver Pov (dB | ver | Average Power (dBm) | Tune u |
| 802.11n- | | | 3 | 8 | 519 | 90 | MCSO | 15.44 | 15. | | 18.24 | 19.00 |
| HT40 | U-NII-1 | | 4 | 6 | 5230 | | MCS0 | 15.83 | 15. | 41 | 18.64 | 19.00 |

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| | U-NII-3 | 151 | 5755 | | 14.97 | 14.83 | 17.91 | 18.50 |
|----------|---------|---------|----------------|--------------------|---------------------------|---------------------------|---------------------------|---------|
| | 159 | | 5795 | | 14.91 | 14.79 | 17.86 | 18.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 14.55 | 15.55 | 18.09 | 19.00 |
| | U-NII-1 | 40 | 40 5200 | | 14.57 | 15.28 | 17.95 | 19.00 |
| 802.11ac | | 48 | 5240 | MCS0 | 15.07 | 15.91 | 18.52 | 19.00 |
| VHT20 | | 149 | 149 5745 | | 14.85 | 12.81 | 16.96 | 18.50 |
| | U-NII-3 | 157 | 5785 | | 14.92 | 12.94 | 17.05 | 18.50 |
| | | 165 | 5825 | | 14.89 | 12.76 | 16.96 | 18.50 |

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| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
|----------|----------|---------|----------------|--------------------|---------------------------|---------------------------|---------------------------|---------|
| | U-NII-1 | 38 | 5190 | | 15.43 | 15.01 | 18.24 | 19.00 |
| 802.11ac | U-INII-1 | 46 | 5230 | | 15.76 | 15.34 | 18.57 | 19.00 |
| VHT40 | | 151 | 5755 | MCS0 | 14.94 | 14.91 | 17.94 | 18.50 |
| | U-NII-3 | 159 | 5795 | | 14.85 | 14.87 | 17.87 | 18.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
| 802.11ac | U-NII-1 | 42 | 5210 | MCS0 | 15.28 | 14.86 | 18.09 | 19.00 |
| VHT80 | U-NII-3 | 155 | 5775 | MCSU | 14.95 | 14.64 | 17.81 | 18.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
| | | 36 | 5180 | | 14.61 | 15.87 | 18.30 | 19.00 |
| | U-NII-1 | 40 | 5200 | | 14.99 | 15.80 | 18.42 | 19.00 |
| 802.11ax | | 48 | 5240 | MOOO | 12.75 | 13.95 | 16.40 | 17.00 |
| HEW20 | | 149 | 5745 | MCS0 | 14.77 | 12.89 | 16.94 | 18.50 |
| | | 157 | 5785 | | 14.85 | 12.94 | 17.01 | 18.50 |
| | | 165 | 5825 | | 14.71 | 12.83 | 16.88 | 18.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
| | U-NII-1 | 38 | 5190 | | 15.35 | 14.94 | 18.16 | 19.00 |
| 802.11ax | U-INII-1 | 46 | 5230 | MCS0 | 15.73 | 15.31 | 18.54 | 19.00 |
| HEW40 | U-NII-3 | 151 | 5755 | IVIC SU | 14.76 | 14.91 | 17.85 | 18.50 |
| | U-INII-3 | 159 | 5795 | | 14.84 | 14.78 | 17.82 | 18.50 |
| Mode | 5GHz | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Average Power (dBm) | Average Power (dBm) | Tune up |
| 802.11ax | U-NII-1 | 42 | 5210 | MCS0 | 15.40 | 14.98 | 18.21 | 19.00 |
| HEW80 | U-NII-3 | 155 | 5775 | WC30 | 14.96 | 14.64 | 17.81 | 18.50 |

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| | | BT | | |
|-----------|---------|----------------|------------------------|---------|
| Mode | Channel | Frequency(MHz) | Average Power (dBm) | Tune up |
| | 0 | 2402 | 9.72 | 11.00 |
| GFSK | 39 | 2441 | 10.15 | 11.00 |
| | 78 | 2480 | 10.82 | 11.00 |
| | 0 | 2402 | 6.68 | 8.00 |
| Pi/4DQPSK | 39 | 2441 | 6.59 | 8.00 |
| | 78 | 2480 | 7.53 | 8.00 |
| | 0 | 2402 | 6.94 | 8.00 |
| 8DPSK | 39 | 2441 | 6.87 | 8.00 |
| | 78 | 2480 | 7.72 | 8.00 |

| | BLE | | | | | | | | | | |
|------|---------|----------------|---------------------|---------|--|--|--|--|--|--|--|
| Mode | Channel | Frequency(MHz) | Average Power (dBm) | Tune up | | | | | | | |
| | 0 | 2402 | 9.65 | 11.00 | | | | | | | |
| 1M | 19 | 2440 | 9.61 | 11.00 | | | | | | | |
| | 39 | 2480 | 10.51 | 11.00 | | | | | | | |
| | 0 | 2402 | 9.47 | 11.00 | | | | | | | |
| 2M | 19 | 2440 | 9.75 | 11.00 | | | | | | | |
| | 39 | 2480 | 10.57 | 11.00 | | | | | | | |

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7.3 Measurement of SAR Data

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

• \leq 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is \leq 100MHz.

• \leq 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.

- \leq 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is \geq 200 MHz.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WiFi 2.4G:

 When 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.

WiFi 5G:

- 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) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) When 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.

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7.3.1 SAR Result of WIFI 2.4G

| | Wi-Fi 2.4G SAR Test Record | | | | | | | | | | | |
|--|--|-------------------|---------------|-----------------------------------|-----------------------|------------------------|-------------------------|-----------------------|------------------|---------------------------------|---------------------|--|
| | • | - | 1 | | t0 Test R | ecord | 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.(℃) | |
| Head & Body SAR Test data(Separate 10mm) | | | | | | | | | | | | |
| Front side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.268 | -0.01 | 17.99 | 18.50 | 1.125 | 0.302 | 22.8 | |
| Back side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.025 | -0.17 | 17.99 | 18.50 | 1.125 | 0.028 | 22.8 | |
| Left side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.041 | -0.02 | 17.99 | 18.50 | 1.125 | 0.046 | 22.8 | |
| Right side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.022 | 0.12 | 17.99 | 18.50 | 1.125 | 0.025 | 22.8 | |
| Top side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.226 | -0.08 | 17.99 | 18.50 | 1.125 | 0.255 | 22.8 | |
| Bottom side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.023 | -0.13 | 17.99 | 18.50 | 1.125 | 0.026 | 22.8 | |
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) | |
| | Product specific 10g SAR Test data(Separate 0mm) | | | | | | | | | | | |
| Front side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.493 | -0.11 | 17.99 | 18.50 | 1.125 | 0.555 | 22.8 | |
| Back side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.066 | -0.01 | 17.99 | 18.50 | 1.125 | 0.074 | 22.8 | |
| Left side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.073 | 0.19 | 17.99 | 18.50 | 1.125 | 0.082 | 22.8 | |
| Right side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.035 | 0.18 | 17.99 | 18.50 | 1.125 | 0.039 | 22.8 | |
| Top side | 802.11b | 11/2462 | 99.84% | 1.00 | 1.460 | -0.05 | 17.99 | 18.50 | 1.125 | 1.645 | 22.8 | |
| Bottom side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.051 | -0.14 | 17.99 | 18.50 | 1.125 | 0.057 | 22.8 | |
| | | | | An | t1 Test R | ecord | | | | - | | |
| Test position | Test mode | Test ch./Freq. | | 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.(℃) | |
| | | | Head & | & Body SA | R Test da | ata(Separa | ate 10mm) | | | | | |
| Front side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.082 | -0.07 | 17.82 | 18.50 | 1.169 | 0.096 | 22.8 | |
| Back side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.073 | -0.11 | 17.82 | 18.50 | 1.169 | 0.086 | 22.8 | |
| Left side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.001 | -0.05 | 17.82 | 18.50 | 1.169 | 0.001 | 22.8 | |
| Right side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.114 | 0.03 | 17.82 | 18.50 | 1.169 | 0.134 | 22.8 | |
| Top side | 802.11b | 11/2462 | | 1.00 | 0.001 | 0.07 | 17.82 | 18.50 | 1.169 | 0.001 | 22.8 | |
| Bottom side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.067 | -0.12 | 17.82 | 18.50 | 1.169 | 0.078 | 22.8 | |
| Test position | Test mode | Test ch./Freq. | - | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(℃) | |
| | 1 | | | | | | parate 0mm) | | | - | | |
| Front side | 802.11b | 11/2462 | | 1.00 | 0.109 | 0.14 | 17.82 | 18.50 | 1.169 | 0.128 | 22.8 | |
| Back side | 802.11b | 11/2462 | | 1.00 | 0.084 | 0.10 | 17.82 | 18.50 | 1.169 | 0.098 | 22.8 | |
| Left side | 802.11b | 11/2462 | | 1.00 | 0.099 | -0.06 | 17.82 | 18.50 | 1.169 | 0.116 | 22.8 | |
| Right side | 802.11b | 11/2462 | | 1.00 | 0.395 | -0.10 | 17.82 | 18.50 | 1.169 | 0.463 | 22.8 | |
| Top side | 802.11b | 11/2462 | | 1.00 | 0.022 | 0.02 | 17.82 | 18.50 | 1.169 | 0.026 | 22.8 | |
| Bottom side | 802.11b | 11/2462 | 99.84% | 1.00 | 0.183 | 0.10 | 17.82 | 18.50 | 1.169 | 0.214 | 22.8 | |

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| | MIMO Test Record | | | | | | | | | | |
|---------------|--|-------------------|---------------|-----------------------------------|-----------------------|------------------------|-------------------------|-----------------------|---------------|---------------------------------|--------------------|
| 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.(℃) |
| | Head & Body SAR Test data(Separate 10mm) | | | | | | | | | | |
| Front side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.069 | -0.08 | 16.11 | 17.00 | 1.228 | 0.087 | 22.8 |
| Back side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.036 | 0.05 | 16.11 | 17.00 | 1.228 | 0.045 | 22.8 |
| Left side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.001 | -0.15 | 16.11 | 17.00 | 1.228 | 0.001 | 22.8 |
| Right side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.054 | -0.11 | 16.11 | 17.00 | 1.228 | 0.068 | 22.8 |
| Top side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.131 | -0.03 | 16.11 | 17.00 | 1.228 | 0.165 | 22.8 |
| Bottom side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.016 | 0.03 | 16.11 | 17.00 | 1.228 | 0.020 | 22.8 |
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(℃) |
| | | I | Product s | pecific 10g | SAR Te | st data(Se | parate 0mm) | , | | • | |
| Front side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.117 | -0.19 | 16.11 | 17.00 | 1.228 | 0.147 | 22.8 |
| Back side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.021 | 0.06 | 16.11 | 17.00 | 1.228 | 0.026 | 22.8 |
| Left side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.029 | 0.10 | 16.11 | 17.00 | 1.228 | 0.037 | 22.8 |
| Right side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.123 | -0.01 | 16.11 | 17.00 | 1.228 | 0.155 | 22.8 |
| Top side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.464 | 0.11 | 16.11 | 17.00 | 1.228 | 0.585 | 22.8 |
| Bottom side | 802.11n HT20 | 11/2462 | 97.47% | 1.03 | 0.029 | 0.09 | 16.11 | 17.00 | 1.228 | 0.037 | 22.8 |

Table 5: SAR of WIFI 2.4G for Head and Body.

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7.3.2 SAR Result of WIFI 5G

| | Wi-Fi 5G SAR Test Record | | | | | | | | | | |
|---------------|--------------------------|-------------------|---------------|-----------------------------------|-----------------------|------------------------|-------------------------|-----------------------|------------------|------------------------------|---------------------|
| | | | | Å | Ant0 Test R | lecord | | | | | |
| 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 SAR 1-g (W/kg) | Liquid Temp.(°C) |
| | | | Head & | Body Tes | t data of U | NII-1(Se | parate 10mm) | | | | |
| Front side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.391 | -0.08 | 16.33 | 17.00 | 1.167 | 0.488 | 23.1 |
| Back side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.074 | -0.06 | 16.33 | 17.00 | 1.167 | 0.092 | 23.1 |
| Left side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.179 | 0.10 | 16.33 | 17.00 | 1.167 | 0.223 | 23.1 |
| Right side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.075 | -0.05 | 16.33 | 17.00 | 1.167 | 0.094 | 23.1 |
| Top side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.502 | -0.12 | 16.33 | 17.00 | 1.167 | 0.626 | 23.1 |
| Bottom side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.086 | -0.11 | 16.33 | 17.00 | 1.167 | 0.107 | 23.1 |
| | | | Head & | Body Tes | st data of U- | -NII-3(Sep | parate 10mm) | | | | |
| Front side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.188 | 0.01 | 15.81 | 16.00 | 1.045 | 0.210 | 23.1 |
| Back side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.062 | 0.01 | 15.81 | 16.00 | 1.045 | 0.069 | 23.1 |
| Left side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.049 | -0.15 | 15.81 | 16.00 | 1.045 | 0.055 | 23.1 |
| Right side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.044 | 0.08 | 15.81 | 16.00 | 1.045 | 0.049 | 23.1 |
| Top side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.772 | -0.18 | 15.81 | 16.00 | 1.045 | 0.861 | 23.1 |
| Top side | 802.11a | 157/5785 | 93.64% | 1.068 | 0.756 | 0.04 | 15.73 | 16.00 | 1.064 | 0.859 | 23.1 |
| Top side | 802.11a | 149/5745 | 93.64% | 1.068 | 0.728 | -0.12 | 15.78 | 16.00 | 1.052 | 0.818 | 23.1 |
| Bottom side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.016 | -0.13 | 15.81 | 16.00 | 1.045 | 0.018 | 23.1 |
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(℃) |
| | | | | | | 1 | I-1(Separate 0 |)mm) | | | |
| Front side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.259 | -0.05 | 16.33 | 17.00 | 1.167 | 0.323 | 23.1 |
| Back side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.063 | 0.08 | 16.33 | 17.00 | 1.167 | 0.079 | 23.1 |
| Left side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.133 | 0.01 | 16.33 | 17.00 | 1.167 | 0.166 | 23.1 |
| Right side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.032 | -0.05 | 16.33 | 17.00 | 1.167 | 0.040 | 23.1 |
| Top side | 802.11a | 48/5240 | 93.58% | 1.069 | 1.250 | -0.14 | 16.33 | 17.00 | 1.167 | 1.559 | 23.1 |
| Bottom side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.027 | -0.15 | 16.33 | 17.00 | 1.167 | 0.034 | 23.1 |
| | | | | ific 10gS/ | AR Test dat | a of U-NI | I-3(Separate 0 |)mm) | | | |
| Front side | 802.11a | 165/5825 | | 1.068 | 0.135 | 0.12 | 15.81 | 16.00 | 1.045 | 0.151 | 23.1 |
| Back side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.035 | 0.03 | 15.81 | 16.00 | 1.045 | 0.039 | 23.1 |
| Left side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.057 | -0.13 | 15.81 | 16.00 | 1.045 | 0.064 | 23.1 |
| Right side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.034 | -0.05 | 15.81 | 16.00 | 1.045 | 0.038 | 23.1 |
| Top side | 802.11a | 165/5825 | 93.64% | 1.068 | 1.010 | -0.02 | 15.81 | 16.00 | 1.045 | 1.127 | 23.1 |
| Bottom side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.010 | 0.05 | 15.81 | 16.00 | 1.045 | 0.011 | 23.1 |

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| | | | | 1 | Ant1 Test F | Record | | | | | | |
|---|---|-------------------|---------------|-----------------------------------|-----------------------|------------------------|-------------------------|-----------------------|------------------|------------------------------|--------------------|--|
| 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 SAR 1-g (W/kg) | Liquid Temp.(℃) | |
| Head & Body Test data of U-NII-1(Separate 10mm) | | | | | | | | | | | | |
| Front side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.143 | 0.05 | 15.89 | 17.00 | 1.291 | 0.197 | 23.1 | |
| Back side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.095 | -0.04 | 15.89 | 17.00 | 1.291 | 0.131 | 23.1 | |
| Left side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.024 | -0.12 | 15.89 | 17.00 | 1.291 | 0.033 | 23.1 | |
| Right side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.254 | 0.05 | 15.89 | 17.00 | 1.291 | 0.350 | 23.1 | |
| Top side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.039 | -0.19 | 15.89 | 17.00 | 1.291 | 0.054 | 23.1 | |
| Bottom side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.276 | -0.07 | 15.89 | 17.00 | 1.291 | 0.381 | 23.1 | |
| | Head & Body Test data of U-NII-3(Separate 10mm) | | | | | | | | | | | |
| Front side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.404 | 0.01 | 15.98 | 16.00 | 1.005 | 0.433 | 23.1 | |
| Back side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.180 | -0.01 | 15.98 | 16.00 | 1.005 | 0.193 | 23.1 | |
| Left side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.055 | -0.02 | 15.98 | 16.00 | 1.005 | 0.059 | 23.1 | |
| Right side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.549 | -0.15 | 15.98 | 16.00 | 1.005 | 0.589 | 23.1 | |
| Top side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.034 | 0.19 | 15.98 | 16.00 | 1.005 | 0.036 | 23.1 | |
| Bottom side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.701 | -0.07 | 15.98 | 16.00 | 1.005 | 0.752 | 23.1 | |
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(℃) | |
| | | Prod | luct spec | cific 10gS | AR Test dat | a of U-NI | II-1(Separate (|)mm) | • | | | |
| Front side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.136 | 0.09 | 15.89 | 17.00 | 1.291 | 0.188 | 23.1 | |
| Back side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.173 | 0.04 | 15.89 | 17.00 | 1.291 | 0.239 | 23.1 | |
| Left side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.016 | -0.05 | 15.89 | 17.00 | 1.291 | 0.022 | 23.1 | |
| Right side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.388 | 0.12 | 15.89 | 17.00 | 1.291 | 0.535 | 23.1 | |
| Top side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.024 | -0.13 | 15.89 | 17.00 | 1.291 | 0.033 | 23.1 | |
| Bottom side | 802.11a | 48/5240 | 93.58% | 1.069 | 0.384 | 0.07 | 15.89 | 17.00 | 1.291 | 0.530 | 23.1 | |
| | | Prod | luct spec | cific 10gS | AR Test dat | a of U-NI | II-3(Separate 0 |)mm) | | | | |
| Front side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.329 | -0.10 | 15.98 | 16.00 | 1.005 | 0.353 | 23.1 | |
| Back side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.303 | -0.06 | 15.98 | 16.00 | 1.005 | 0.325 | 23.1 | |
| Left side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.028 | 0.04 | 15.98 | 16.00 | 1.005 | 0.030 | 23.1 | |
| Right side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.813 | 0.16 | 15.98 | 16.00 | 1.005 | 0.872 | 23.1 | |
| Top side | 802.11a | 165/5825 | 93.64% | 1.068 | 0.014 | 0.19 | 15.98 | 16.00 | 1.005 | 0.015 | 23.1 | |
| Bottom side | 802.11a | 165/5825 | 93.64% | 1.068 | 1.000 | 0.09 | 15.98 | 16.00 | 1.005 | 1.073 | 23.1 | |

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| MIMO Test Record | | | | | | | | | | | | |
|---|----------------|-------------------|---------------|-----------------------------------|-----------------------|------------------------|-------------------------|-----------|------------------|------------------------------|---------------------|--|
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) | |
| Head & Body Test data of U-NII-1(Separate 10mm) | | | | | | | | | | | | |
| Front side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.280 | -0.10 | 18.09 | 19.00 | 1.234 | 0.376 | 23.1 | |
| Back side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.094 | 0.01 | 18.09 | 19.00 | 1.234 | 0.126 | 23.1 | |
| Left side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.096 | -0.06 | 18.09 | 19.00 | 1.234 | 0.129 | 23.1 | |
| Right side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.207 | 0.15 | 18.09 | 19.00 | 1.234 | 0.278 | 23.1 | |
| Top side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.404 | 0.03 | 18.09 | 19.00 | 1.234 | 0.542 | 23.1 | |
| Bottom side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.281 | 0.16 | 18.09 | 19.00 | 1.234 | 0.377 | 23.1 | |
| | | | Head & | Body Te | st data of U | -NII-3(Se | parate 10mm) | | | | | |
| Front side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.103 | 0.14 | 17.81 | 18.50 | 1.173 | 0.131 | 23.1 | |
| Back side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.123 | -0.08 | 17.81 | 18.50 | 1.173 | 0.157 | 23.1 | |
| Left side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.118 | -0.16 | 17.81 | 18.50 | 1.173 | 0.151 | 23.1 | |
| Right side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.108 | 0.05 | 17.81 | 18.50 | 1.173 | 0.138 | 23.1 | |
| Top side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.222 | 0.16 | 17.81 | 18.50 | 1.173 | 0.283 | 23.1 | |
| Bottom side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.143 | 0.16 | 17.81 | 18.50 | 1.173 | 0.182 | 23.1 | |
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(℃) | |
| | • | Proc | luct spec | cific 10gS | AR Test dat | a of U-NI | II-1(Separate (|))mm) | • | | | |
| Front side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.365 | -0.04 | 18.09 | 19.00 | 1.234 | 0.490 | 23.1 | |
| Back side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.186 | 0.01 | 18.09 | 19.00 | 1.234 | 0.250 | 23.1 | |
| Left side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.140 | 0.15 | 18.09 | 19.00 | 1.234 | 0.188 | 23.1 | |
| Right side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.403 | -0.18 | 18.09 | 19.00 | 1.234 | 0.541 | 23.1 | |
| Top side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 1.470 | -0.01 | 18.09 | 19.00 | 1.234 | 1.973 | 23.1 | |
| Bottom side | 802.11ac VHT80 | 42/5210 | 91.98% | 1.087 | 0.457 | -0.05 | 18.09 | 19.00 | 1.234 | 0.613 | 23.1 | |
| | | Proc | luct spec | cific 10gS | AR Test dat | a of U-NI | II-3(Separate (|)mm) | | | | |
| Front side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.138 | 0.19 | 17.81 | 18.50 | 1.173 | 0.176 | 23.1 | |
| Back side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.061 | 0.09 | 17.81 | 18.50 | 1.173 | 0.078 | 23.1 | |
| Left side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.057 | 0.14 | 17.81 | 18.50 | 1.173 | 0.073 | 23.1 | |
| Right side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.139 | 0.10 | 17.81 | 18.50 | 1.173 | 0.177 | 23.1 | |
| Top side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.752 | -0.17 | 17.81 | 18.50 | 1.173 | 0.959 | 23.1 | |
| Bottom side | 802.11ac VHT80 | 155/5775 | 91.94% | 1.088 | 0.165 | -0.05 | 17.81 | 18.50 | 1.173 | 0.210 | 23.1 | |

Table 6: SAR of WIFI 5G for Head and Body.

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7.3.3 SAR Result of BT

| Bluetooth SAR Test Record | | | | | | | | | | | | | | | |
|--|------------------|-------------------|---------------|-----------------------------------|-----------------------|------------------------|-------------------------|-----------------------|---------------|------------------------------|---------------------|--|--|--|--|
| | Ant0 Test Record | | | | | | | | | | | | | | |
| 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.(°C) | | | | |
| Head & Body SAR Test data(Separate 10mm) | | | | | | | | | | | | | | | |
| Front side | DH5 | 78/2480 | 77.12% | 1.297 | 0.051 | 0.04 | 10.82 | 11.00 | 1.042 | 0.068 | 22.8 | | | | |
| Back side | DH5 | 78/2480 | 77.12% | 1.297 | 0.002 | -0.17 | 10.82 | 11.00 | 1.042 | 0.003 | 22.8 | | | | |
| Left side | DH5 | 78/2480 | 77.12% | 1.297 | 0.002 | -0.09 | 10.82 | 11.00 | 1.042 | 0.003 | 22.8 | | | | |
| Right side | DH5 | 78/2480 | 77.12% | 1.297 | 0.001 | -0.07 | 10.82 | 11.00 | 1.042 | 0.001 | 22.8 | | | | |
| Top side | DH5 | 78/2480 | 77.12% | 1.297 | 0.068 | -0.09 | 10.82 | 11.00 | 1.042 | 0.092 | 22.8 | | | | |
| Bottom side | DH5 | 78/2480 | 77.12% | 1.297 | 0.001 | 0.07 | 10.82 | 11.00 | 1.042 | 0.001 | 22.8 | | | | |
| Test position | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(℃) | | | | |
| | | | Prod | uct specific | 10g SAR | Test data | a(Separate On | nm) | | | | | | | |
| Front side | DH5 | 78/2480 | 77.12% | 1.297 | 0.072 | -0.04 | 10.82 | 11.00 | 1.042 | 0.097 | 22.8 | | | | |
| Back side | DH5 | 78/2480 | 77.12% | 1.297 | 0.017 | -0.03 | 10.82 | 11.00 | 1.042 | 0.023 | 22.8 | | | | |
| Left side | DH5 | 78/2480 | 77.12% | 1.297 | 0.027 | -0.08 | 10.82 | 11.00 | 1.042 | 0.036 | 22.8 | | | | |
| Right side | DH5 | 78/2480 | 77.12% | 1.297 | 0.008 | -0.09 | 10.82 | 11.00 | 1.042 | 0.011 | 22.8 | | | | |
| Top side | DH5 | 78/2480 | 77.12% | 1.297 | 0.285 | -0.03 | 10.82 | 11.00 | 1.042 | 0.385 | 22.8 | | | | |
| Bottom side | DH5 | 78/2480 | 77.12% | 1.297 | 0.011 | 0.07 | 10.82 | 11.00 | 1.042 | 0.015 | 22.8 | | | | |

Table 7: SAR of BT for Head and Body.

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7.4 Multiple Transmitter Evaluation

7.4.1 Simultaneous SAR test evaluation

Simultaneous Transmission Possibilities

| NO. | Simultaneous Transmission Configuration | Body |
|-----|---|------|
| 1 | WIFI5G+BT | Yes |

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7.4.2 Simultaneous Transmission SAR Summation Scenario

Head & Body 10mm:

| Test position | | WiFi 2.4G Ant0 | WiFi 2.4G Ant1 | WiFi 2.4G MIMO | WiFi 5G Ant0 | WiFi 5G Ant1 | WiFi 5G MIMO | ВТ | Summed SAR | |
|---------------|-------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-------|---------------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 6+7 | |
| | Front side | 0.302 | 0.096 | 0.087 | 0.488 | 0.433 | 0.376 | 0.068 | 0.444 | |
| | Back side | 0.028 | 0.086 | 0.045 | 0.092 | 0.193 | 0.157 | 0.003 | 0.160 | |
| | Left side | 0.046 | 0.001 | 0.001 | 0.223 | 0.059 | 0.151 | 0.003 | 0.154 | |
| WLAN | Right side | 0.025 | 0.134 | 0.068 | 0.094 | 0.589 | 0.278 | 0.001 | 0.279 | |
| | Top side | 0.255 | 0.001 | 0.165 | 0.861 | 0.054 | 0.542 | 0.092 | 0.634 | |
| | Bottom side | 0.026 | 0.078 | 0.020 | 0.107 | 0.752 | 0.377 | 0.001 | 0.378 | |

0mm:

| Test position | | WiFi 2.4G Ant0 | WiFi 2.4G Ant1 | WiFi 2.4G MIMO | WiFi 5G Ant0 | WiFi 5G Ant1 | WiFi 5G MIMO | BT | Summed SAR | |
|---------------|-------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-------|---------------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 6+7 | |
| | Front side | 0.555 | 0.128 | 0.147 | 0.323 | 0.353 | 0.490 | 0.097 | 0.587 | |
| | Back side | 0.074 | 0.098 | 0.026 | 0.079 | 0.325 | 0.250 | 0.023 | 0.273 | |
| WLAN | Left side | 0.082 | 0.116 | 0.037 | 0.166 | 0.030 | 0.188 | 0.036 | 0.224 | |
| WLAN | Right side | 0.039 | 0.463 | 0.155 | 0.040 | 0.872 | 0.541 | 0.011 | 0.552 | |
| | Top side | 1.645 | 0.026 | 0.585 | 1.559 | 0.033 | 1.973 | 0.385 | 2.358 | |
| | Bottom side | 0.057 | 0.214 | 0.037 | 0.034 | 1.073 | 0.613 | 0.015 | 0.628 | |

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8 Equipment list

| | Test Platform | SPEAG DASY5 Professional | | | | | | | | | | | |
|-------------|---|--------------------------|-------------|---------------|---------------------|----------------------------|--|--|--|--|--|--|--|
| | Description SAR Test System (Frequency range 300MHz-6GHz) | | | | | | | | | | | | |
| | Software Reference DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483) | | | | | | | | | | | | |
| | Hardware Reference | | | | | | | | | | | | |
| | Equipment | Manufacturer | Model | Inventory No. | Calibration Date | Due date of calibration | | | | | | | |
| \boxtimes | E-Field Probe | SPEAG | EX3DV4 | SUWI-01-30-01 | 2023-10-17 | 2024-10-16 | | | | | | | |
| \boxtimes | Twin Phantom | SPEAG | SAM 7 | SUWI-02-04-34 | NCR | NCR | | | | | | | |
| \boxtimes | DAE | SPEAG | DAE4 | SUWI-02-04-26 | 2024-06-05 | 2025-06-04 | | | | | | | |
| \square | Validation Kits | SPEAG | D2450V2 | SUWI-03-20-04 | 2023-08-28 | 2026-08-27 | | | | | | | |
| \boxtimes | Validation Kits | SPEAG | D5GHzV2 | SUWI-03-20-08 | 2023-08-23 | 2026-08-22 | | | | | | | |
| \square | DAK-3.5 probe | SPEAG | DAK-3.5 | SUWI-02-04-28 | NCR | NCR | | | | | | | |
| \boxtimes | Universal Radio Communication Tester | R&S | CMW500 | SUWI-01-27-01 | 2023-09-13 | 2024-09-12 | | | | | | | |
| \boxtimes | RF Bi-Directional Coupler | Agilent | 86205-60001 | SUWI-02-04-29 | NCR | NCR | | | | | | | |
| \boxtimes | Signal Generator | R&S | SMB100A | SUWI-01-08-01 | 2024-02-04 | 2025-02-03 | | | | | | | |
| \square | Preamplifier | Qiji | YX28980933 | SUWI-02-04-35 | NCR | NCR | | | | | | | |
| \square | Power Sensor | Keysight | U2002H | SUWI-01-40-02 | 2023-09-13 | 2024-09-12 | | | | | | | |
| \square | Attenuator | SHX | TS2-3dB | SUWI-02-04-30 | NCR | NCR | | | | | | | |
| \square | Coaxial low pass filter | Mini-Circuits | VLF-2500(+) | SUWI-02-04-31 | NCR | NCR | | | | | | | |
| \square | Coaxial low pass filter | Microlab Fxr | LA-F13 | SUWI-02-04-32 | NCR | NCR | | | | | | | |
| \square | DC POWER SUPPLY | SAKO | SK1730SL5A | SUWI-02-04-33 | NCR | NCR | | | | | | | |
| | Speed reading thermometer | LKM | DTM3000 | SUWI-01-30-01 | 2023-09-15 | 2024-09-14 | | | | | | | |
| \boxtimes | Humidity and Temperature Indicator | MingGao | MingGao | SUWI-01-01-10 | 2023-09-15 | 2024-09-14 | | | | | | | |

Note: Remark: NCR=No Calibration Requirement.

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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

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