

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-02 Rev. A/1

Report No.: FYCR260600009305

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SAR TEST REPORT

Application No.: FYCR2606000093AT
Applicant: Arashi Vision Inc.
Address of Applicant: 11th Floor, Building 2, Jinlitong Financial Center Bao'an District Shenzhen, Guangdong 518000 China
Manufacturer: Arashi Vision Inc.
Address of Manufacturer: 11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, Shenzhen, Guangdong, China.
EUT Description: Insta360 Ace Pro 3
Model No.: CINSABUA
Trade Mark: Insta360
FCC ID: 2AWWH-CINSABUA
Standards: FCC 47CFR §2.1093
Date of Receipt: 2026-06-10
Date of Test: 2026-07-07 to 2026-07-08
Date of Issue: 2026-07-20

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



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Revision Record

Version	Description	Date	Remark
01		2026-07-20	Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan / Reviewer		



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
	Body
WI-FI (2.4GHz)	0.59
WI-FI (5GHz)	1.18
BT	0.39
SAR Limited(W/kg)	1.6
Maximum Simultaneous Transmission SAR (W/kg)	
Scenario	Body
Sum SAR	1.58
SPLSR	/
SPLSR Limited	0.04



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1 General Information

1.1 General Description of EUT

Product Name:	Insta360 Ace Pro 3		
Model No.:	CINSABUA		
Trade Mark:	Insta360		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
SN:	BULA3ABDTQ7V5H		
Hardware Version:	V02		
Software Version:	V1.0.0		
Antenna Type:	FPC&Steel plate antenna		
Device Operating Configurations:			
Test Mode Configuration:	WIFI:DSSS,OFDM,OFDMA; BT:GFSK, $\pi/4$ DQPSK,8DPSK		
Frequency Bands:	Band	Tx(MHz)	
	WIFI 2.4G	2412~2462	
	WIFI 5G	5150~5250	
		5250~5350	
		5470~5725	
		5725~5850	
	BT	2402~2480	
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	AC4ATXY	
	Normal Voltage:	3.87V	
	Rated capacity:	2250mAh	
	Manufacturer:	Dongguan NVT Technology Co., Ltd	
Note: Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CCS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			



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1.2 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 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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1.3 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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1.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 Test Engineer

Test Engineer: Jim Wang

1.6 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
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.	



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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 DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

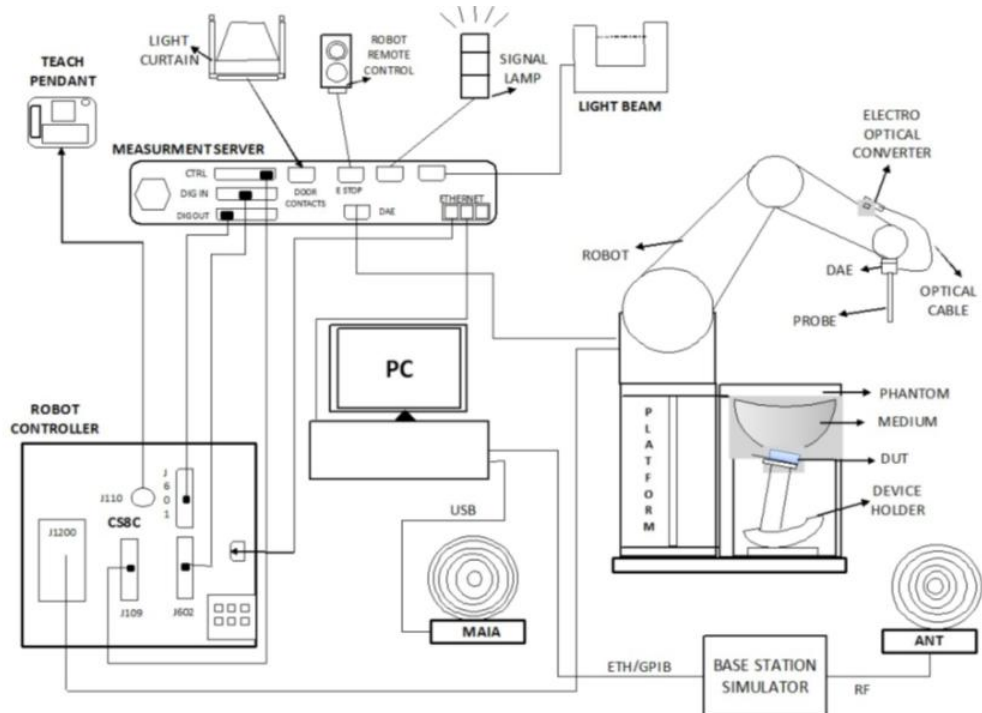
The DASY system for performing compliance tests consists of the following items:

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

- The function of the measurement server is to perform the time critical tasks such as signal filtering,

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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 system.
- DASY 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.



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3.2 Isotropic E-field Probe EX3DV4

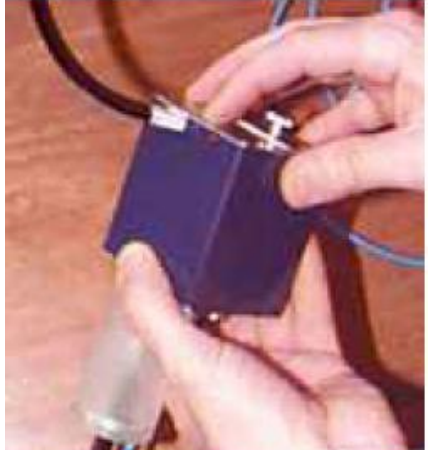
	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	4 MHz - 10 GHz Linearity: ± 0.2 dB (30 MHz - 10 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g - 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 9 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 10 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI



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3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY 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	

3.4 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. 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 Compatibility	Compatible with all SPEAG tissue 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 4 MHz to 10 GHz. 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 $\epsilon=3$ and loss tangent $\delta=0.02$. 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.

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 32mm*32mm*30mm ($f \leq 2\text{GHz}$), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points ($f \leq 2\text{GHz}$), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). 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.

If the zoom scan measured as specified in the preceding paragraphs complies with both i) and ii), or if the psSAR is below 0,1 W/kg, no additional measurements are needed.

i) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x- and y-directions (Δx , Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance zM1. The minimum distance shall be recorded in the SAR test report.

ii) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x-y location of the measured maximum SAR value shall be at least 30 %. This ratio (in %) shall be recorded in the SAR test report.



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

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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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	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:

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

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

U_i = input signal of channel I (I = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

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

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

Normi = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

E_{tot} = 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.

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

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

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

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



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 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 ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ 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 KDB 865664 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.



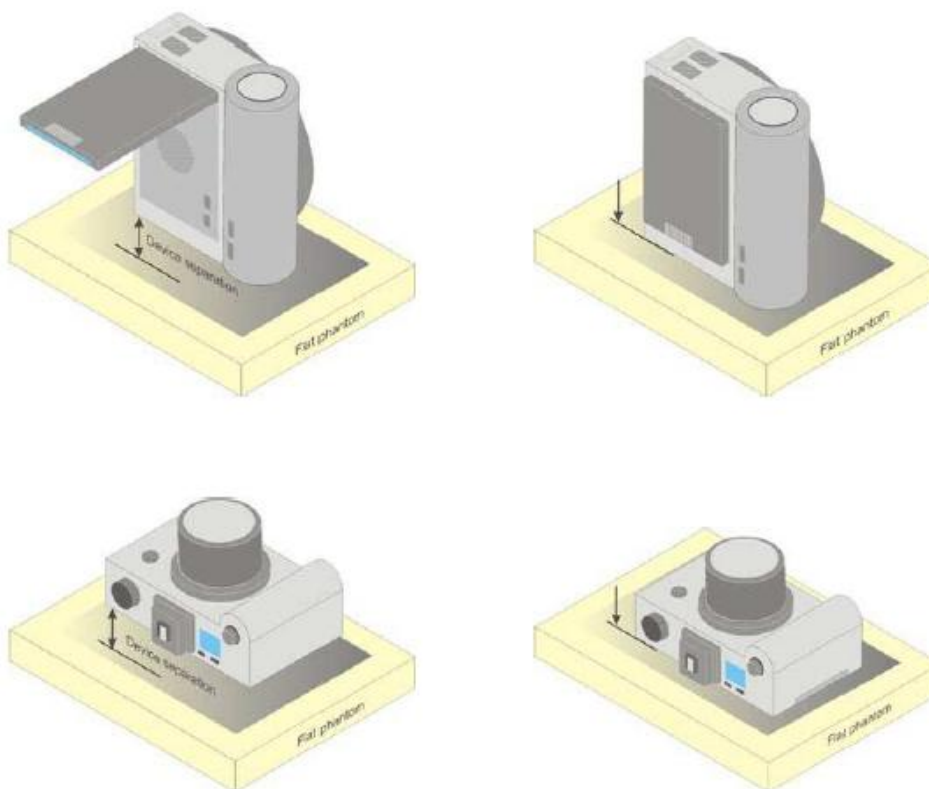
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5 Description of Test Position

5.1 Front-of-face device of Still cameras and video cameras

The devices that fall into this category include wireless-enabled still cameras and video cameras that can send data to a network or other device. In the case of a device whose intended use requires a separation distance from the user (e.g., device with a viewing screen), this shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 5 mm or less between the phantom surface and the device shall be used.



a) Still cameras and video cameras

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	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 Chloride Water: De-ionized, 16 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
Head Tissue Simulate Liquid (HBBL600-10000V6) is composed of the following ingredients: (Manufactured by SPEAG) 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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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Measurement for Tissue Simulate Liquid for System check									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
2450 Head	2450	40.410	1.797	39.20	1.80	3.09%	-0.17%	22.0	2026/7/7
5250 Head	5250	36.638	4.842	35.90	4.71	2.06%	2.80%	21.9	2026/7/8
5600 Head	5600	35.770	5.233	35.50	5.07	0.76%	3.21%	21.9	2026/7/8
5750 Head	5750	35.589	5.430	35.40	5.22	0.53%	4.02%	21.9	2026/7/8

Table 2 : Measurement result of Tissue electric parameters



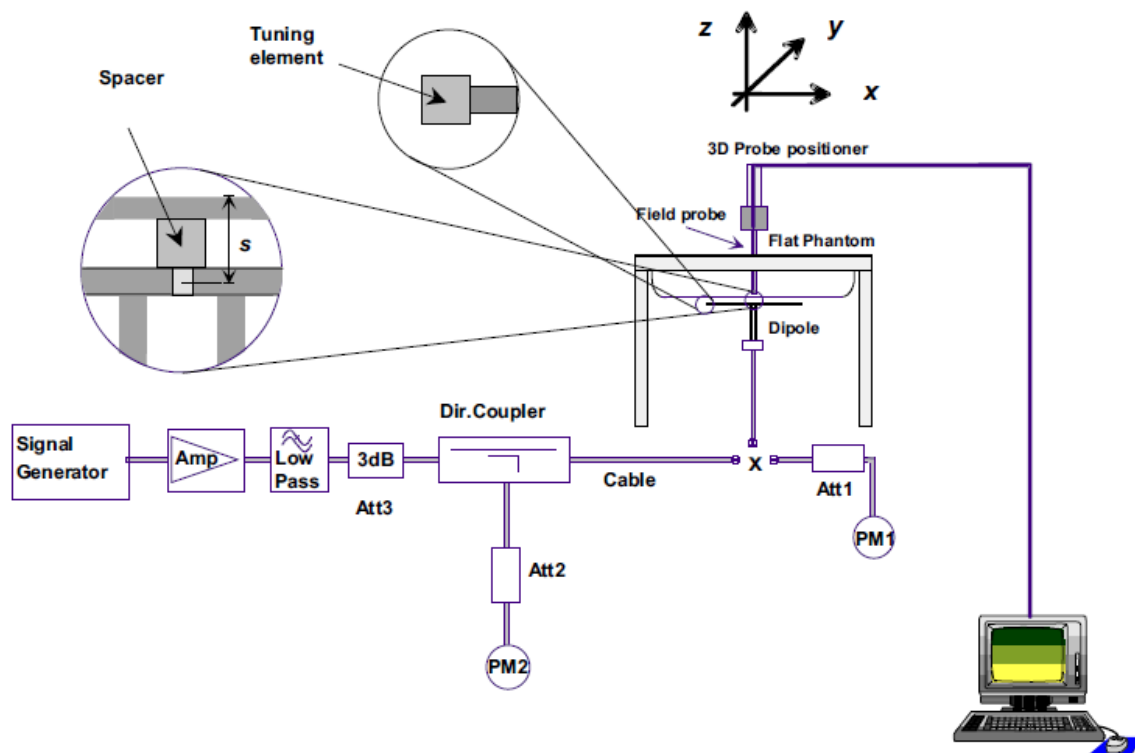
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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. 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 $\pm 10\%$ 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 (3GHz or higher) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ 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-12.The microwave circuit arrangement used for SAR system Check

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6.2.1 Justification for Extended SAR Dipole Calibrations

1) 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 20% 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 Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±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)	10- g(W/kg)		
D2450V2_Head	13.50	6.25	54.00	25.00	52.70	24.30	2.47%	2.88%	21.9	2026/7/7
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±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)	10- g(W/kg)		
D5GHzV2_5.25G_Head	7.80	2.28	78.00	22.80	77.60	21.50	0.52%	6.05%	21.9	2026/7/8
D5GHzV2_5.6G_Head	7.76	2.23	77.60	22.30	82.90	22.80	-6.39%	-2.19%	21.9	2026/7/8
D5GHzV2_5.75G_Head	7.93	2.28	79.30	22.80	78.30	21.20	1.28%	7.55%	21.9	2026/7/8

Table 3 : 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

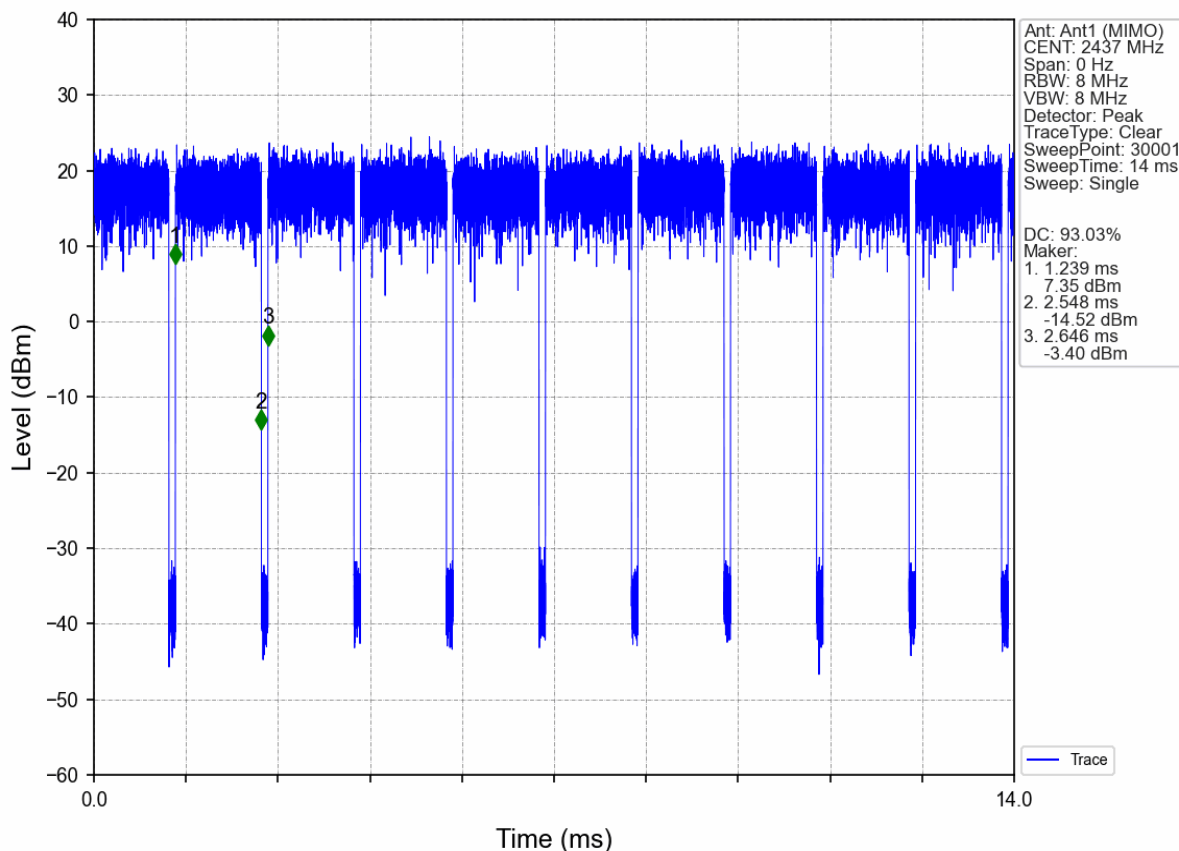
7.1.1 WIFI Test Configuration

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.

7.1.1.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11n HT20:

Duty cycle=93.03%



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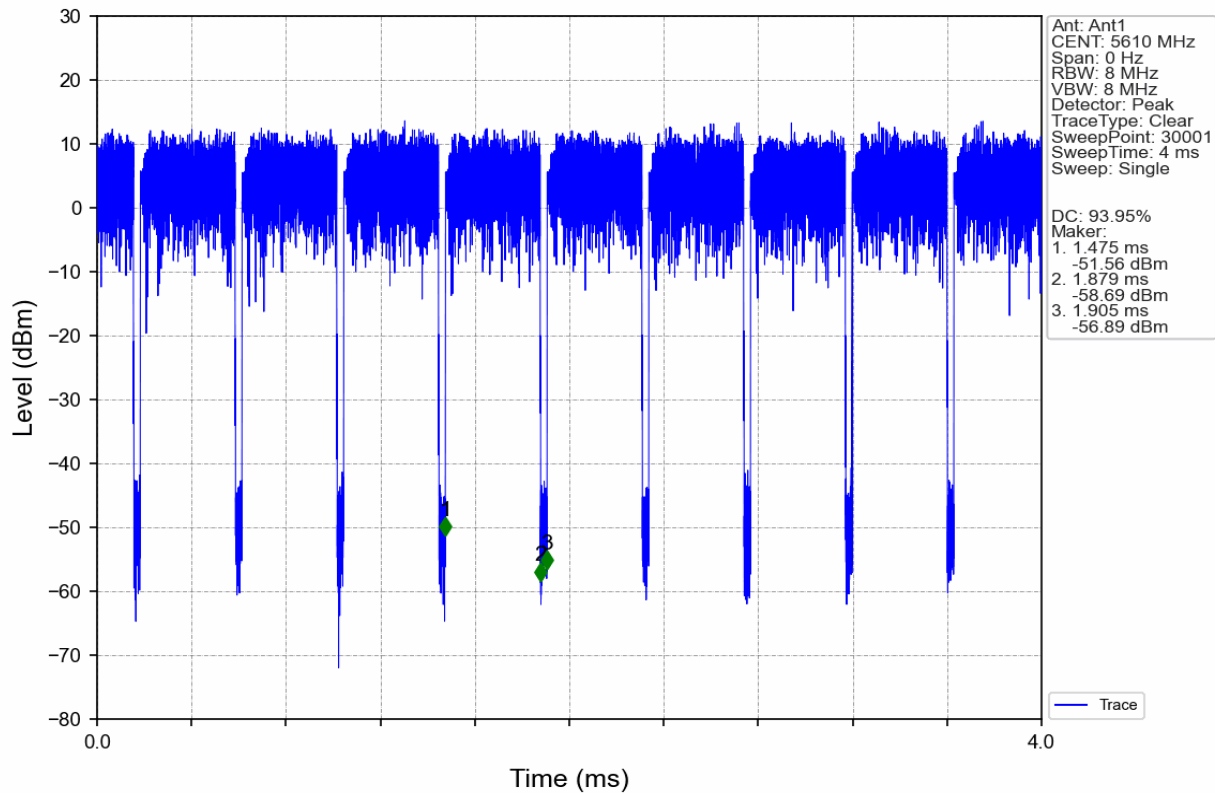
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2) Wi-Fi 5GHz 802.11ax HE80:

Duty cycle=93.95%



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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.



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7.1.1.3 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.

- 1) . 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.
- 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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7.1.1.4 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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7.1.1.5 5 GHz WiFi SAR Procedures

• 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:

- 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. 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.

• 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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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.

- 1) 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.
- 4) 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.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) 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.

• 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.



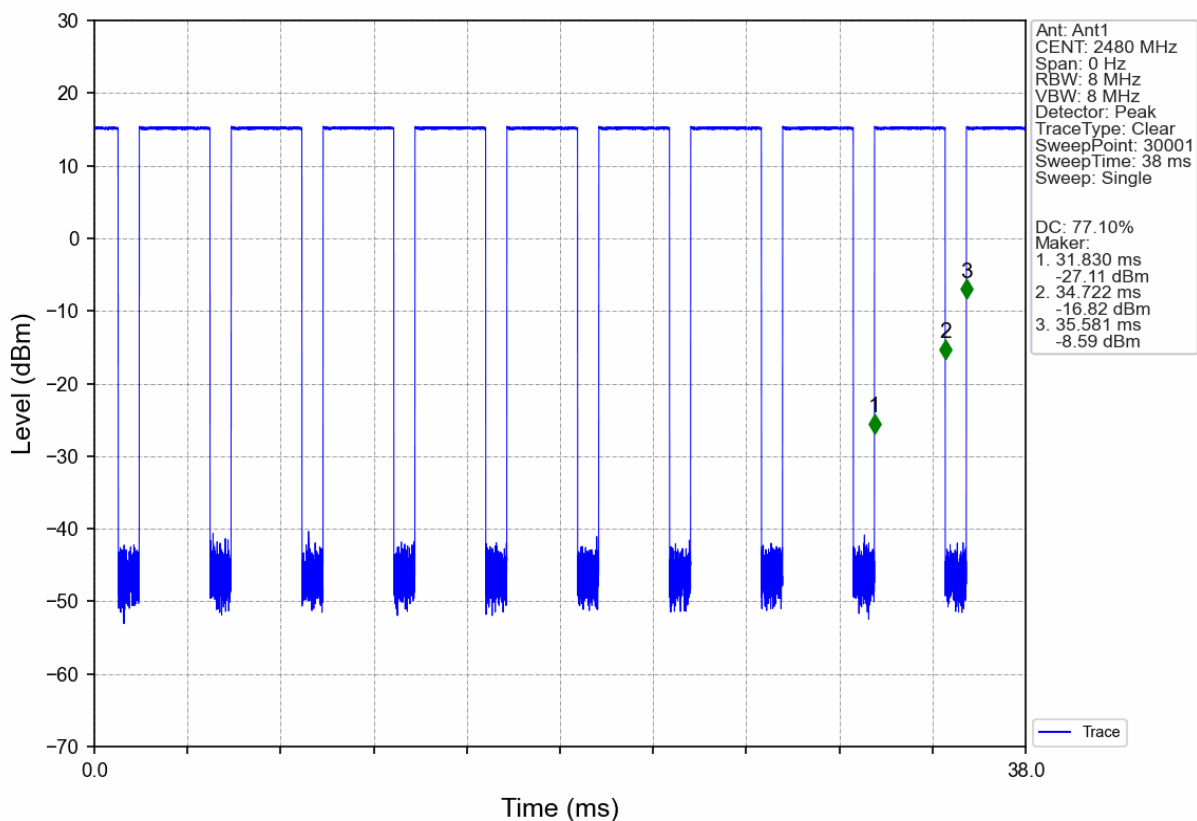
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7.1.2 BT Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, frequency hops at 1600 hops/second per the Bluetooth standard, the EUT is operated at the RF continuous emission mode.

BT DH5 Duty Cycle=77.10%



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8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D



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8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted Power Data of WIFI 2.4G

WIFI 2.4G Ant1					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	18.30	19.00
	6	2437		18.03	19.00
	11	2462		17.63	18.50
802.11g	1	2412	6	15.84	16.50
	6	2437		17.03	18.00
	11	2462		14.97	15.50
802.11n HT20	1	2412	6.5	16.70	17.50
	6	2437		17.26	18.00
	11	2462		13.52	14.50
802.11ax HE20	1	2412	MCS0	14.84	15.50
	6	2437		17.09	18.00
	11	2462		12.39	13.00

WIFI 2.4G Ant2					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	18.27	19.00
	6	2437		18.53	19.50
	11	2462		18.61	19.50
802.11g	1	2412	6	16.18	17.00
	6	2437		17.96	18.50
	11	2462		16.16	17.00
802.11n HT20	1	2412	6.5	17.04	18.00
	6	2437		18.23	19.00
	11	2462		14.74	15.50
802.11ax HE20	1	2412	MCS0	15.05	16.00
	6	2437		18.08	19.00
	11	2462		13.47	14.00



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WIFI 2.4G MIMO					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n HT20	1	2412	6.5	19.88	20.50
	6	2437		20.78	21.50
	11	2462		17.18	18.00
802.11ax HE20	1	2412	MCS0	17.96	18.50
	6	2437		20.62	21.50
	11	2462		15.97	16.50



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8.2.2 RF Conducted Power Data of WIFI 5G

WIFI 5G Ant 1					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	15.00	15.50
		40	5200	16.37	17.00
		44	5220	16.35	17.00
		48	5240	16.61	17.50
	802.11n HT20	36	5180	14.74	15.50
		40	5200	14.88	15.50
		44	5220	14.41	15.00
		48	5240	14.68	15.50
	802.11n HT40	38	5190	16.10	17.00
		46	5230	16.33	17.00
	802.11ac VHT20	36	5180	15.87	16.50
		40	5200	16.06	17.00
		44	5220	16.02	17.00
		48	5240	16.12	17.00
	802.11ac VHT40	38	5190	12.23	13.00
		46	5230	15.78	16.50
	802.11ac VHT80	42	5210	9.87	10.50
	802.11ax HE20	36	5180	16.40	17.00
		40	5200	16.31	17.00
		44	5220	16.11	17.00
		48	5240	16.19	17.00
	802.11ax HE40	38	5190	12.30	13.00
		46	5230	15.89	16.50
	802.11ax HE80	42	5210	11.25	12.00
5GHz U-NII-2A	802.11a	52	5260	16.13	17.00
		56	5280	16.37	17.00
		60	5300	16.34	17.00
		64	5320	16.42	17.00
	802.11n HT20	52	5260	15.62	16.50
		56	5280	16.01	17.00
		60	5300	16.08	17.00
		64	5320	16.41	17.00
	802.11n HT40	54	5270	16.03	17.00
		62	5310	16.31	17.00
	802.11ac VHT20	52	5260	16.68	17.50
		56	5280	15.86	16.50



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		60	5300	15.59	16.50
		64	5320	15.53	16.50
	802.11ac VHT40	54	5270	17.56	18.50
		62	5310	10.79	11.50
	802.11ac VHT80	58	5290	9.15	10.00
	802.11ax HE20	52	5260	17.02	18.00
		56	5280	15.59	16.50
		60	5300	15.14	16.00
		64	5320	15.53	16.50
	802.11ax HE40	54	5270	17.59	18.50
		62	5310	10.79	11.50
	802.11ax HE80	58	5290	10.68	11.50
5GHz UNII-2C	802.11a	100	5500	15.74	16.50
		104	5520	16.29	17.00
		108	5540	15.01	16.00
		112	5560	14.93	15.50
		116	5580	16.29	17.00
		120	5600	14.94	15.50
		124	5620	14.94	15.50
		128	5640	15.05	16.00
		132	5660	14.98	15.50
		136	5680	15.07	16.00
		140	5700	14.98	15.50
		144	5720	14.98	15.50
	802.11n HT20	100	5500	16.13	17.00
		104	5520	16.24	17.00
		108	5540	15.72	16.50
		112	5560	14.94	15.50
		116	5580	16.24	17.00
		120	5600	14.97	15.50
		124	5620	15.02	16.00
		128	5640	14.98	15.50
		132	5660	14.95	15.50
		136	5680	15.07	16.00
		140	5700	15.72	16.50
		144	5720	14.50	15.00
	802.11n HT40	102	5510	16.22	17.00
		110	5550	15.98	16.50
		118	5590	15.87	16.50
		126	5630	15.79	16.50



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	802.11ac VHT20	134	5670	16.11	17.00
		142	5710	15.80	16.50
		100	5500	14.34	15.00
		104	5520	15.58	16.50
		108	5540	16.63	17.50
		112	5560	14.96	15.50
		116	5580	15.64	16.50
		120	5600	15.07	16.00
		124	5620	14.96	15.50
		128	5640	15.05	16.00
		132	5660	15.09	16.00
		136	5680	14.94	15.50
		140	5700	11.22	12.00
		144	5720	16.45	17.00
	802.11ac VHT40	102	5510	9.63	10.50
		110	5550	15.59	16.50
		118	5590	15.74	16.50
		126	5630	15.07	16.00
		134	5670	15.38	16.00
		142	5710	16.27	17.00
	802.11ac VHT80	106	5530	9.19	10.00
		122	5610	13.09	14.00
		138	5690	15.25	16.00
	802.11ax HE20	100	5500	12.97	13.50
		104	5520	14.75	15.50
		108	5540	15.82	16.50
		112	5560	15.01	16.00
		116	5580	15.01	16.00
		120	5600	14.98	15.50
		124	5620	15.09	16.00
		128	5640	15.07	16.00
		132	5660	15.02	16.00
		136	5680	15.07	16.00
		140	5700	11.22	12.00
		144	5720	15.87	16.50
	802.11ax HE40	102	5510	9.63	10.50
		110	5550	15.49	16.00
		118	5590	15.38	16.00
		126	5630	15.18	16.00
		134	5670	15.13	16.00
		142	5710	15.55	16.50



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	802.11ax HE80	106	5530	9.51	10.50
		122	5610	8.94	9.50
		138	5690	15.89	16.50
5GHz UNII-3	802.11a	149	5745	14.84	15.50
		153	5765	14.61	15.50
		157	5785	14.68	15.50
		161	5805	14.66	15.50
		165	5825	15.11	16.00
	802.11n HT20	149	5745	14.89	15.50
		153	5765	15.00	15.50
		157	5785	15.64	16.50
		161	5805	15.41	16.00
		165	5825	15.50	16.00
	802.11n HT40	151	5755	15.28	16.00
		159	5795	14.52	15.50
	802.11ac VHT20	149	5745	16.30	17.00
		153	5765	16.12	17.00
		157	5785	16.48	17.00
		161	5805	16.14	17.00
		165	5825	16.75	17.50
	802.11ac VHT40	151	5755	10.39	11.00
		159	5795	17.16	18.00
	802.11ac VHT80	155	5775	14.18	15.00
	802.11ax HE20	149	5745	15.82	16.50
		153	5765	16.23	17.00
		157	5785	16.31	17.00
		161	5805	15.92	16.50
		165	5825	16.37	17.00
	802.11ax HE40	151	5755	16.58	17.50
		159	5795	17.23	18.00
	802.11ax HE80	155	5775	15.32	16.00

WIFI 5G Ant2					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	15.11	16.00
		40	5200	15.13	16.00
		44	5220	15.09	16.00
		48	5240	15.45	16.00
	802.11n HT20	36	5180	14.42	15.00
		40	5200	13.71	14.50



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		44	5220	13.65	14.50
		48	5240	13.79	14.50
	802.11n HT40	38	5190	15.72	16.50
		46	5230	15.64	16.50
	802.11ac VHT20	36	5180	15.50	16.00
		40	5200	14.91	15.50
		44	5220	14.67	15.50
		48	5240	14.38	15.00
	802.11ac VHT40	38	5190	11.00	11.50
		46	5230	14.40	15.00
	802.11ac VHT80	42	5210	8.98	9.50
	802.11ax HE20	36	5180	14.39	15.00
		40	5200	14.25	15.00
		44	5220	14.13	15.00
		48	5240	14.44	15.00
	802.11ax HE40	38	5190	11.40	12.00
		46	5230	14.41	15.00
	802.11ax HE80	42	5210	10.37	11.00
5GHz U-NII-2A	802.11a	52	5260	15.81	16.50
		56	5280	15.10	16.00
		60	5300	15.35	16.00
		64	5320	15.61	16.50
	802.11n HT20	52	5260	14.02	15.00
		56	5280	14.09	15.00
		60	5300	14.11	15.00
		64	5320	14.30	15.00
	802.11n HT40	54	5270	14.41	15.00
		62	5310	14.28	15.00
	802.11ac VHT20	52	5260	13.84	14.50
		56	5280	13.56	14.50
		60	5300	13.01	14.00
		64	5320	13.25	14.00
	802.11ac VHT40	54	5270	14.33	15.00
		62	5310	10.15	11.00
	802.11ac VHT80	58	5290	9.36	10.00
	802.11ax HE20	52	5260	14.34	15.00
		56	5280	13.15	14.00
		60	5300	13.26	14.00
		64	5320	13.40	14.00
	802.11ax	54	5270	14.45	15.00



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5GHz UNII-2C	HE40	62	5310	10.43	11.00
	802.11ax HE80	58	5290	10.60	11.50
	802.11a	100	5500	14.94	15.50
		104	5520	15.55	16.50
		108	5540	14.62	15.50
		112	5560	14.65	15.50
		116	5580	14.98	15.50
		120	5600	15.59	16.50
		124	5620	14.59	15.50
		128	5640	14.69	15.50
		132	5660	15.51	16.50
		136	5680	14.66	15.50
		140	5700	14.62	15.50
		144	5720	14.65	15.50
	802.11n HT20	100	5500	14.75	15.50
		104	5520	15.18	16.00
		108	5540	14.98	15.50
		112	5560	13.73	14.50
		116	5580	15.18	16.00
		120	5600	14.56	15.50
		124	5620	14.73	15.50
		128	5640	15.54	16.50
		132	5660	14.70	15.50
		136	5680	14.67	15.50
		140	5700	14.58	15.50
		144	5720	13.73	14.50
	802.11n HT40	102	5510	15.30	16.00
		110	5550	15.40	16.00
		118	5590	15.26	16.00
		126	5630	15.36	16.00
		134	5670	15.48	16.00
		142	5710	15.36	16.00
	802.11ac VHT20	100	5500	14.63	15.50
		104	5520	15.46	16.00
		108	5540	14.74	15.50
		112	5560	14.38	15.00
		116	5580	15.46	16.00
		120	5600	15.52	16.50
		124	5620	14.58	15.50
		128	5640	14.71	15.50
		132	5660	14.92	15.50
		136	5680	15.52	16.50



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		140	5700	11.60	12.50
		144	5720	14.38	15.00
	802.11ac VHT40	102	5510	10.48	11.00
		110	5550	15.97	16.50
		118	5590	15.45	16.00
		126	5630	15.56	16.50
		134	5670	15.54	16.50
		142	5710	15.45	16.00
	802.11ac VHT80	106	5530	10.91	11.50
		122	5610	14.48	15.00
		138	5690	15.09	16.00
	802.11ax HE20	100	5500	12.89	13.50
		104	5520	14.58	15.50
		108	5540	14.21	15.00
		112	5560	14.46	15.00
		116	5580	14.78	15.50
		120	5600	14.73	15.50
		124	5620	14.26	15.00
		128	5640	14.38	15.00
		132	5660	14.82	15.50
		136	5680	14.21	15.00
		140	5700	11.84	12.50
		144	5720	14.46	15.00
	802.11ax HE40	102	5510	10.63	11.50
		110	5550	15.38	16.00
		118	5590	15.21	16.00
		126	5630	14.81	15.50
		134	5670	15.21	16.00
		142	5710	14.88	15.50
	802.11ax HE80	106	5530	11.01	12.00
		122	5610	11.07	12.00
		138	5690	15.62	16.50
5GHz UNII-3	802.11a	149	5745	15.02	16.00
		153	5765	14.48	15.00
		157	5785	14.61	15.50
		161	5805	14.89	15.50
		165	5825	15.70	16.50
	802.11n HT20	149	5745	15.40	16.00
		153	5765	15.92	16.50
		157	5785	16.17	17.00
		161	5805	15.98	16.50
		165	5825	16.27	17.00



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	802.11n HT40	151	5755	15.61	16.50
		159	5795	14.95	15.50
	802.11ac VHT20	149	5745	15.09	16.00
		153	5765	14.42	15.00
		157	5785	14.66	15.50
		161	5805	14.21	15.00
		165	5825	14.80	15.50
	802.11ac VHT40	151	5755	10.52	11.50
		159	5795	15.18	16.00
	802.11ac VHT80	155	5775	13.51	14.50
	802.11ax HE20	149	5745	15.43	16.00
		153	5765	14.53	15.50
		157	5785	14.65	15.50
		161	5805	14.86	15.50
		165	5825	14.64	15.50
	802.11ax HE40	151	5755	15.23	16.00
		159	5795	15.03	16.00
	802.11ax HE80	155	5775	14.64	15.50

WIFI 5G MIMO					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11n HT20	36	5180	17.59	18.50
		40	5200	17.34	18.00
		44	5220	17.06	18.00
		48	5240	17.27	18.00
	802.11n HT40	38	5190	18.92	19.50
		46	5230	19.01	20.00
	802.11ac VHT20	36	5180	18.70	19.50
		40	5200	18.53	19.50
		44	5220	18.41	19.00
		48	5240	18.35	19.00
	802.11ac VHT40	38	5190	14.67	15.50
		46	5230	18.15	19.00
	802.11ac VHT80	42	5210	12.46	13.00
	802.11ax HE20	36	5180	18.52	19.50
		40	5200	18.41	19.00
		44	5220	18.24	19.00
		48	5240	18.41	19.00
	802.11ax HE40	38	5190	14.88	15.50
		46	5230	18.22	19.00



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	802.11ax HE80	42	5210	13.84	14.50
5GHz U-NII-2A	802.11n HT20	52	5260	17.90	18.50
		56	5280	18.17	19.00
		60	5300	18.22	19.00
		64	5320	18.49	19.00
	802.11n HT40	54	5270	18.31	19.00
		62	5310	18.42	19.00
	802.11ac VHT20	52	5260	18.50	19.00
		56	5280	17.87	18.50
		60	5300	17.50	18.00
		64	5320	17.55	18.50
	802.11ac VHT40	54	5270	19.25	20.00
		62	5310	13.49	14.00
	802.11ac VHT80	58	5290	12.27	13.00
	802.11ax HE20	52	5260	18.89	19.50
		56	5280	17.55	18.50
		60	5300	17.31	18.00
		64	5320	17.60	18.50
	802.11ax HE40	54	5270	18.93	19.50
		62	5310	13.62	14.50
	802.11ax HE80	58	5290	13.65	14.50
5GHz UNII-2C	802.11n HT20	100	5500	18.50	19.50
		104	5520	18.75	19.50
		108	5540	18.38	19.00
		112	5560	17.39	18.00
		116	5580	18.75	19.50
		120	5600	17.78	18.50
		124	5620	17.89	18.50
		128	5640	18.28	19.00
		132	5660	17.84	18.50
		136	5680	17.88	18.50
		140	5700	18.20	19.00
		144	5720	17.14	18.00
	802.11n HT40	102	5510	18.79	19.50
		110	5550	18.71	19.50
		118	5590	18.59	19.50
		126	5630	18.59	19.50
		134	5670	18.82	19.50
		142	5710	18.60	19.50
	802.11ac	100	5500	17.50	18.00



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5GHz UNII-3	VHT20	104	5520	18.53	19.50
		108	5540	18.80	19.50
		112	5560	17.69	18.50
		116	5580	18.56	19.50
		120	5600	18.31	19.00
		124	5620	17.78	18.50
		128	5640	17.89	18.50
		132	5660	18.02	19.00
		136	5680	18.25	19.00
		140	5700	14.42	15.00
		144	5720	18.55	19.50
	802.11ac VHT40	102	5510	13.09	14.00
		110	5550	18.79	19.50
		118	5590	18.61	19.50
		126	5630	18.33	19.00
		134	5670	18.47	19.00
		142	5710	18.89	19.50
	802.11ac VHT80	106	5530	13.14	14.00
		122	5610	16.85	17.50
		138	5690	18.18	19.00
	802.11ax HE20	100	5500	15.94	16.50
		104	5520	17.68	18.50
		108	5540	18.10	19.00
		112	5560	17.75	18.50
		116	5580	17.91	18.50
		120	5600	17.87	18.50
		124	5620	17.71	18.50
		128	5640	17.75	18.50
		132	5660	17.93	18.50
		136	5680	17.67	18.50
		140	5700	14.55	15.50
		144	5720	18.23	19.00
	802.11ax HE40	102	5510	13.17	14.00
		110	5550	18.45	19.00
		118	5590	18.31	19.00
		126	5630	18.01	19.00
		134	5670	18.18	19.00
		142	5710	18.24	19.00
	802.11ax HE80	106	5530	13.33	14.00
		122	5610	13.14	14.00
		138	5690	18.77	19.50
	802.11n	149	5745	18.16	19.00



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	HT20	153	5765	18.49	19.00
		157	5785	18.92	19.50
		161	5805	18.71	19.50
		165	5825	18.91	19.50
	802.11n HT40	151	5755	18.46	19.00
		159	5795	17.75	18.50
	802.11ac VHT20	149	5745	18.75	19.50
		153	5765	18.36	19.00
		157	5785	18.67	19.50
		161	5805	18.29	19.00
	802.11ac VHT40	151	5755	13.47	14.00
		159	5795	19.29	20.00
	802.11ac VHT80	155	5775	16.87	17.50
	802.11ax HE20	149	5745	18.64	19.50
		153	5765	18.47	19.00
		157	5785	18.57	19.50
		161	5805	18.43	19.00
		165	5825	18.60	19.50
	802.11ax HE40	151	5755	18.97	19.50
		159	5795	19.28	20.00
	802.11ax HE80	155	5775	18.00	19.00



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8.2.3 RF Conducted Power Data of BT

BT		Average Conducted Power(dBm)			Tune up
Band	Mode	0	39	78	
BT	GFSK	15.53	15.92	16.31	17.00
	$\pi/4$ DQPSK	13.10	13.44	13.08	14.00
	8DPSK	13.04	13.40	13.02	14.00
Band	Mode	0	19	39	Tune up
BLE 1M	GFSK	15.23	15.30	15.92	16.00
Band	Mode	1	19	38	Tune up
BLE 2M	GFSK	12.39	12.88	13.19	14.00



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8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) 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:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.



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8.3.1 SAR Result of WiFi 2.4G

Wi-Fi 2.4G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data (Separate 5mm)												
Front side	802.11n HT20	6/2437	93.03%	1.075	0.090	0.046	0.14	20.78	21.50	1.180	0.114	22
Back side	802.11n HT20	6/2437	93.03%	1.075	0.425	0.216	-0.13	20.78	21.50	1.180	0.539	22
Left side	802.11n HT20	6/2437	93.03%	1.075	0.203	0.101	-0.06	20.78	21.50	1.180	0.258	22
Right side	802.11n HT20	6/2437	93.03%	1.075	0.468	0.236	0.06	20.78	21.50	1.180	0.594	22
Top side	802.11n HT20	6/2437	93.03%	1.075	0.378	0.182	0.04	20.78	21.50	1.180	0.479	22
Bottom side	802.11n HT20	6/2437	93.03%	1.075	0.101	0.056	0.13	20.78	21.50	1.180	0.128	22
Right side	802.11n HT20	1/2412	93.03%	1.075	0.419	0.218	-0.16	19.88	20.50	1.153	0.519	22
Right side	802.11n HT20	11/2462	93.03%	1.075	0.387	0.199	-0.04	17.18	18.00	1.208	0.503	22



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8.3.2 SAR Result of WiFi 5G

Wi-Fi 5G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data of U-NII-2A (Separate 5mm)												
Front side	802.11ac VHT40	54/5270	86.75%	1.153	0.159	0.066	-0.10	19.25	20.00	1.189	0.218	21.9
Back side	802.11ac VHT40	54/5270	86.75%	1.153	0.288	0.112	0.04	19.25	20.00	1.189	0.395	21.9
Left side	802.11ac VHT40	54/5270	86.75%	1.153	0.087	0.032	0.18	19.25	20.00	1.189	0.119	21.9
Right side	802.11ac VHT40	54/5270	86.75%	1.153	0.431	0.162	0.09	19.25	20.00	1.189	0.591	21.9
Top side	802.11ac VHT40	54/5270	86.75%	1.153	0.862	0.231	0.04	19.25	20.00	1.189	1.182	21.9
Top side Repeated	802.11ac VHT40	54/5270	86.75%	1.153	0.842	0.225	0.02	19.25	20.00	1.189	1.154	21.9
Bottom side	802.11ac VHT40	54/5270	86.75%	1.153	0.083	0.018	-0.07	19.25	20.00	1.189	0.114	21.9
Top side	802.11ac VHT40	62/5310	86.75%	1.153	0.759	0.266	-0.06	13.49	14.00	1.125	0.985	21.9
Body Test data of U-NII-2C (Separate 5mm)												
Front side	802.11ax HE80	138/5690	93.95%	1.064	0.132	0.048	0.16	18.77	19.50	1.183	0.166	21.9
Back side	802.11ax HE80	138/5690	93.95%	1.064	0.305	0.103	0.13	18.77	19.50	1.183	0.384	21.9
Left side	802.11ax HE80	138/5690	93.95%	1.064	0.101	0.038	-0.16	18.77	19.50	1.183	0.127	21.9
Right side	802.11ax HE80	138/5690	93.95%	1.064	0.532	0.207	-0.05	18.77	19.50	1.183	0.670	21.9
Top side	802.11ax HE80	138/5690	93.95%	1.064	0.775	0.226	0.10	18.77	19.50	1.183	0.976	21.9
Bottom side	802.11ax HE80	138/5690	93.95%	1.064	0.151	0.061	-0.10	18.77	19.50	1.183	0.190	21.9
Top side	802.11ax HE80	106/5530	93.95%	1.064	0.745	0.216	-0.09	13.33	14.00	1.167	0.925	21.9
Top side	802.11ax HE80	122/5610	93.95%	1.064	0.725	0.211	-0.12	13.14	14.00	1.219	0.940	21.9
Body Test data of U-NII-3 (Separate 5mm)												
Front side	802.11ac VHT40	159/5795	86.75%	1.153	0.168	0.063	0.04	19.29	20.00	1.178	0.228	21.9
Back side	802.11ac VHT40	159/5795	86.75%	1.153	0.275	0.090	0.18	19.29	20.00	1.178	0.374	21.9
Left side	802.11ac VHT40	159/5795	86.75%	1.153	0.101	0.039	0.11	19.29	20.00	1.178	0.137	21.9
Right side	802.11ac VHT40	159/5795	86.75%	1.153	0.631	0.223	0.02	19.29	20.00	1.178	0.857	21.9
Top side	802.11ac VHT40	159/5795	86.75%	1.153	0.751	0.219	-0.10	19.29	20.00	1.178	1.020	21.9
Bottom side	802.11ac VHT40	159/5795	86.75%	1.153	0.125	0.049	-0.17	19.29	20.00	1.178	0.170	21.9
Top side	802.11ac VHT40	151/5755	86.75%	1.153	0.577	0.211	-0.07	17.73	18.50	1.194	0.794	21.9



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Top side	54/5270	0.862	0.842	1.024	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed 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 ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed 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						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						



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8.3.3 SAR Result of BT

Bluetooth SAR Test Record												
Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data (Separate 5mm)												
Front side	DH5	78/2480	77.10%	1.297	0.041	0.023	0.15	16.31	17.00	1.172	0.062	22
Back side	DH5	78/2480	77.10%	1.297	0.056	0.029	-0.09	16.31	17.00	1.172	0.085	22
Left side	DH5	78/2480	77.10%	1.297	0.147	0.078	0.13	16.31	17.00	1.172	0.223	22
Right side	DH5	78/2480	77.10%	1.297	0.019	0.010	-0.11	16.31	17.00	1.172	0.029	22
Top side	DH5	78/2480	77.10%	1.297	0.259	0.121	0.02	16.31	17.00	1.172	0.394	22
Bottom side	DH5	78/2480	77.10%	1.297	0.028	0.013	-0.05	16.31	17.00	1.172	0.043	22
Top side	DH5	0/2402	77.10%	1.297	0.203	0.097	-0.13	15.53	17.00	1.403	0.369	22
Top side	DH5	39/2441	77.10%	1.297	0.196	0.089	0.03	15.92	17.00	1.282	0.326	22



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Body
1	WIFI 5G MIMO + Bluetooth	Yes



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Sum Body 5mm:

Test position	SARmax (W/kg)		Summed SAR
	WiFi 5G MIMO	BT	
	1	2	
Front side	0.228	0.062	0.290
Back side	0.395	0.085	0.480
Left side	0.137	0.223	0.360
Right side	0.857	0.029	0.886
Top side	1.182	0.394	1.576
Bottom side	0.190	0.043	0.233



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9 Equipment list

Test Platform		SPEAG DASY Professional				
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
☒	Test Phantom	SPEAG	SAM Twin	SEM060-24	NCR	NCR
☒	DAE	SPEAG	DAE4	SEM060-48	2026/2/2	2027/2/1
☒	E-Field Probe	SPEAG	EX3DV4	SEM060-04	2025/12/19	2026/12/18
☒	Validation Kits	SPEAG	D2450V2	SEM060-14	2025/6/18	2028/6/17
☒	Validation Kits	SPEAG	D5GHzV2	SEM060-21	2025/6/17	2028/6/16
☒	Dielectric parameter probes	SPEAG	DAK-3.5	SEM060-59	2025/11/16	2026/11/15
☒	Radio Communication Analyzer	Rohde & Schwarz	CMW 500	SEM010-08	2026/2/3	2027/2/2
☒	Radio Communication Analyzer	Anritsu	MT8820C	SEM010-04	2026/2/4	2027/2/3
☒	Radio Communication Analyzer	Anritsu	MT8820C	SEM060-55	2026/4/1	2027/3/31
☒	Electro Thermometer	MITIR	TP3001	SEM002-30	2026/3/16	2027/3/15
☒	Humidity and Temperature Indicator	deli	8838	SEM002-43	2025/7/24	2026/7/23
☒	Speed reading thermometer	LKM electronic GmbH	DTM 3000	SEM060-49	2026/4/3	2027/4/2
☒	Humidity and Temperature Indicator	AS ONE	THA-02L	SEM060-50	2026/4/1	2027/3/31

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

--- End of report ---



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