



Page: 1 of 62

FCC SAR TEST REPORT

Application No.: KSCR2205000742AT(GZCR2205000598AT)

Applicant: DT Research, Inc.

Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI,

Taiwan

Manufacturer: DT Research, Inc.

Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA

Factory: DT Research, Inc. Taiwan Branch

Address of Factory: 6F., No. 36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan

Product Name: Mobile Tablet Model No.(EUT): 313T/MD

Series model: 313xxxxx(x=0.9, A-Z, - or null, or .,or /)

Trade mark: DT Research

 FCC ID:
 YE3600-AX210NG

 Standard(s):
 FCC 47CFR §2.1093

Date of Receipt: 2022-05-16

Date of Test: 2022-06-15 to 2022-06-18

Date of Issue: 2022-06-30

Test Result: Pass*

Eric Lin Laboratory Manager

Enia fri



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^{*} In the configuration tested, the EUT complied with the standards specified above.





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REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2022-06-30	1

Authorized for issue by:			
	Richard. Korg		
	Richard.Kong/ Project Engineer	-	
	Eria fri		
	Eric.Lin/Reviewer	-	



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR22050007421

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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
. ,	Body
WI-FI (2.4GHz)	1.42
WI-FI (5GHz)	1.33
Bluetooth	0.80
Simultaneous Transmission	1.60
SAR Limited(W/kg)	1.6

Note: Mobile Tablet and its below model (s) / item(s): 313xxxxx (x= 0-9, A-Z, - or null, or .,or /)

are identical on circuitry design, PCB layout, electrical components used, internal wiring and functions with the model/item No.: 313T/MD and only different on Model no.



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1 General Information

1.1 General Description of EUT

Product Phase:	ct Phase: Production unit			
Device Type:	Portable device			
Exposure Category:	Uncontrolled environm	Uncontrolled environment / General population		
SN:	3TTW12206V729			
Hardware Version:	R1.2			
Software Version:	Window 10			
Antenna Type:	PIFA Antenna			
		Antenna A	Antenna B	
	WIFI 2.4G	1.8	2.5	
Antenna Gain:	WIFI 5G	3.2	6.8	
	ВТ	1.8	•	
	(Provided by Manufact	urer)		
Device Operating Confi	gurations:			
	WIFI: DSSS, OFDM, OFDMA;			
Modulation Mode:	BT: GFSK, π/4DQPSK, 8DPSK;			
	BLE: GFSK			
	Band	Tx (MHz)	Rx (MHz)	
	WIFI 2.4G	2412~2472	2412~2472	
	U-NII-1	5150~5250	5150~5250	
Frequency Bands:	U-NII-2A	5250~5350	5250~5350	
	U-NII-2C	5470~5725	5470~5725	
	U-NII-3	5725~5850	5725~5850	
	Bluetooth	2402~2480	2402~2480	
	Model:	ACC-006-60K		
	Normal Voltage:	DC 11.4V		
Battery Information:	Rated capacity:	Rated capacity: 5400mAh		
	Battery Type :	Battery Type : Rechargeable lithium-Ion Polymer Battery		
	Manufacturer:	acturer: Guangdong Pow-Tech New Power Co., Ltd		



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1.2 DUT Antenna Locations

Please see the Appendix D



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1.3 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 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 802.11 Wi-Fi SAR v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 865664 D01 v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Compliance Reporting and Documentation Considerations
KDB 616217 D04 v01r02	SAR EVALUATION CONSIDERATIONS FOR LAPTOP, NOTEBOOK, NETBOOK AND TABLET COMPUTERS



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1.4 RF exposure limits

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

Notes:

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

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



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

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

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





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1.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

1.6 Test Facility

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

A2I A

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance $< 0.5 \Omega$	
Ambient noise is checked and found very low and in compliance with requirement of standards.	

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 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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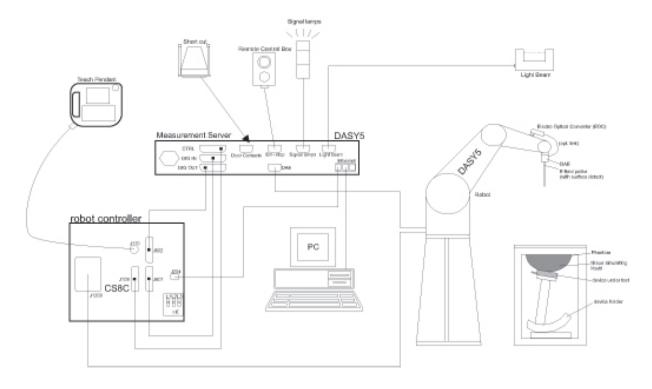
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F-1. SAR Measurement System Configuration

- 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 validat 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	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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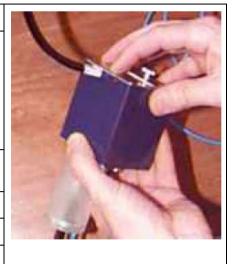




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3.3 Data Acquisition Electronics (DAE)

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



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 defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

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



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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 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 (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

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

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



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			≤ 3 GHz	> 3 GHz		
Maximum distance from (geometric center of pr		-	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm		
Maximum probe angle surface normal at the n			30° ± 1°	20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	$3 - 4 \text{ GHz}$: $\leq 12 \text{ mm}$ $4 - 6 \text{ GHz}$: $\leq 10 \text{ mm}$		
Maximum area scan sp	atial resoli	ntion: Δx _{Area} , Δy _{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*		
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface		Δz _{Zoom} (1): betwee 1 st two points clo to phantom surface		≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid \[\Delta z_{Z00m}(n>1): \] between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	1 X V 7			3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

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

Step 4: Power reference measurement (drift)

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



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





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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 ".DAE3". 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 ConvFiDiode compression point Dcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity ε

- Density p

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

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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



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E-field probes:

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

H-field probes:

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

With Vi = compensated signal of channel i

(i = x, y, z)

Normi = sensor sensitivity of channel I

(i – A, y

Normi = sensor sensitivity of channel

(i = x, y, z)

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

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

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

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 remounted 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.



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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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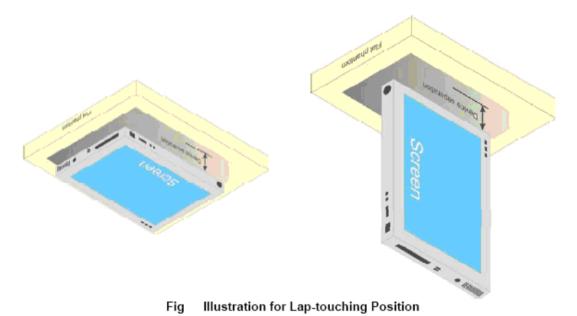


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5 Description of Test Position

5.1 The Test Position

This EUT was tested in three different positions. They are Edge 1, Edge 2, Edge 3, Edge 4 and Back side of tablet. In these positions, the surface of EUT is touching phantom with 0 mm. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.





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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		835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%
Mineral oil: 11-18%
Emulsifiers: 9-15%
Sodium salt: 2-3%

Table 2: Recipe of Tissue Simulate Liquid



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6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Во	ody
(MHz)	Er	σ (S/m)	Er	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ε_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)



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6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (°C)	Date
2450 Head	2450	1.82	39.15	1.80	39.20	1.33	-0.13	±5	22.1	2022/6/18
5250 Head	5250	4.78	36.76	4.71	35.95	1.57	2.24	±5	22.1	2022/6/15
5600 Head	5600	4.96	35.48	5.07	35.50	-2.25	-0.06	±5	22.1	2022/6/16
5750 Head	5750	5.21	35.41	5.22	35.35	-0.21	0.17	±5	22.1	2022/6/17



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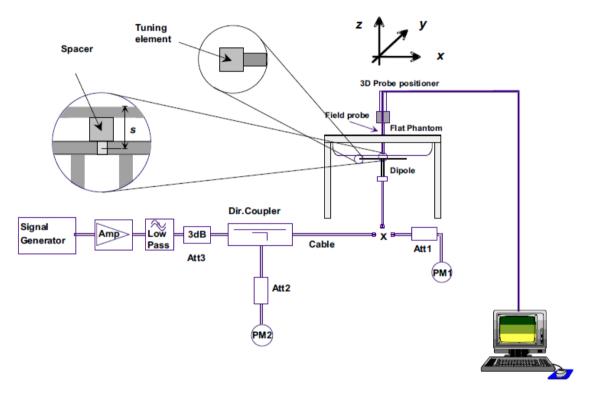




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6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. 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. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 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 verification



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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 Check Result(s)

Valida	Validation Kit		Measured SAR 250mW	Measured SAR (normalize d to 1w)	Measured SAR (normalize d to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liqui d Temp	Measure d Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	(℃)	Date
D2450 V2	Head	12.1	5.65	48.4	22.6	53 (47.70~58.30)	24.7 (22.23~27.17)	22.1	2022/6/18
Validation Kit		Measure d SAR 100mW	Measured SAR 100mW	Measured SAR (normalize d to 1w)	Measured SAR (normalize d to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liqui d Temp	Measure d Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	(℃)	Date
	Head (5.25GHz)	8.16	2.29	81.6	22.9	76.6 (68.94~84.26)	21.5 (19.35~23.65)	22.1	2022/6/15
D5GHzV 2	Head (5.6GHz)	8.29	2.16	82.9	21.6	79 (71.1~86.9)	22.0 (19.8~24.2)	22.1	2022/6/16
	Head (5.75GHz)	8.13	2.26	81.3	22.6	75.9 (68.31~83.49)	21.1 (18.99~23.21)	22.1	2022/6/17

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 Operation Configurations

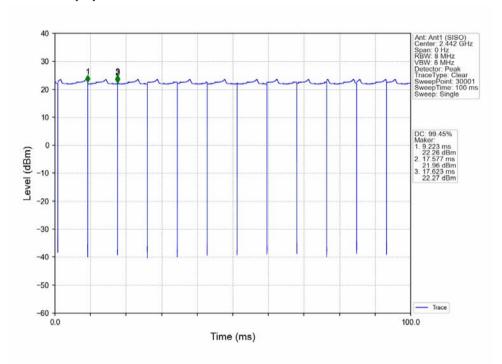
7.1.1 Wi-Fi Test Configuration

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

1) 2.4GHz Wi-Fi 802.11b:

WI-FI1 802.11b: Duty cycle=99.45%



2) 2.4GHz Wi-Fi 802.11n40:

WI-FI1 802.11n40: Duty cycle=85.08%



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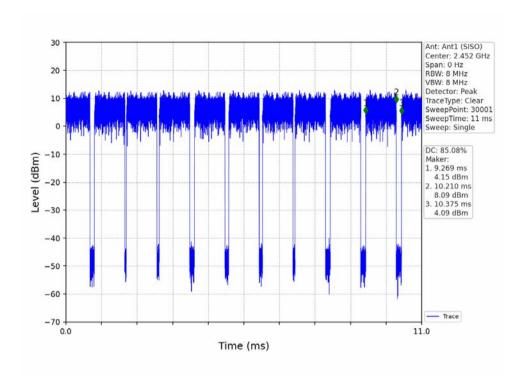
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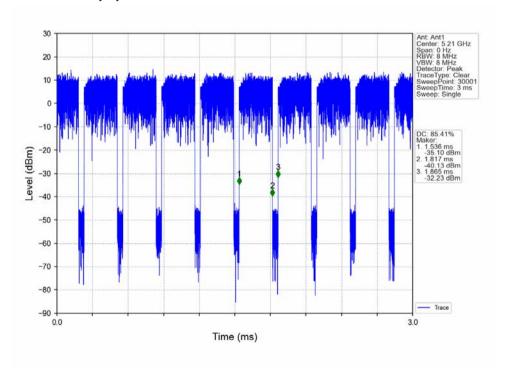


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3) 5GHz Wi-Fi 802.11a:

WI-FI1 802.11ac80: Duty cycle=85.41%





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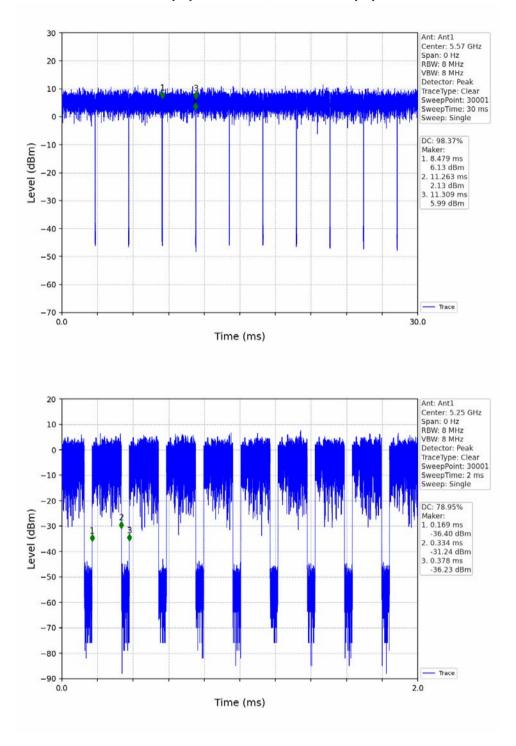
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WI-FI1 802.11ac160: 5570MHz Duty cycle=98.37%; 5250MHz Duty cycle=78.95%





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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:

- 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.



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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.
 - 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"

7.1.1.5 2.4 GHz Wi-Fi 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



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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.

7.1.1.6 5 GHz Wi-Fi 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.
- 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.

OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements



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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.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - The channel closest to mid-band frequency is selected for SAR measurement.
 - 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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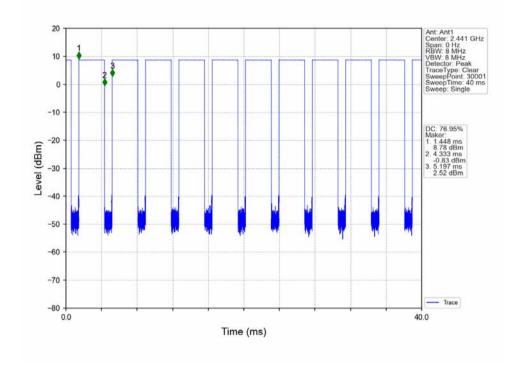
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7.1.2 Bluetooth Test Configuration

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, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

7.1.2.1 Duty cycle

Bluetooth duty cycle: 76.95%





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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of Wi-Fi

WIFI 2.4GHz										
Mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Average Power (dBm) Ant A	Tune up (dBm)	Average Power (dBm) Ant B	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)	
	1	2412		12.56	13	11.85	13			
802.11b	6	2437	1	12.57	13	12.05	13			
	11	2462		12.86	13	12.21	13	N1/A	N1/A	
	1	2412		12.21	13	11.77	13	N/A	N/A	
802.11g	6	2437	6	12.3	13	11.86	13			
	11	2462		12.54	13	11.87	13			
	1	2412		12.06	13	11.52	13	14.81	16	
802.11n HT20	6	2437	MCS0	12.15	13	11.66	13	14.92	16	
11120	11	2462		12.45	13	11.96	13	15.22	16	
	3	2422		12.71	13	12.15	13	15.45	16	
802.11n HT40	6	2437	MCS0	12.66	13	12.2	13	15.45	16	
11140	9	2452		12.73	13	12.29	13	15.53	16	
	1	2412		12.09	13	11.69	13	14.90	16	
802.11ax HT20	6	2437	MCS0	12.18	13	11.83	13	15.02	16	
11120	11	2462		12.56	13	12.08	13	15.34	16	
	3	2422		12.38	13	11.99	13	15.20	16	
802.11ax HT40	6	2437	MCS0	12.57	13	12.03	13	15.32	16	
П140	9	2452		12.72	13	12.14	13	15.45	16	

WIFI 5GHz											
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)	
		36	5180		9.77	10	8.98	10			
	U-NII-1	44	5220		9.72	10	9.02	10			
		48	5240		9.71	10	9.08	10			
		52	5260		9.65	10	9.13	10			
	U-NII-2A	60	5300		9.68	10	9.2	10			
802.11a		64	5320	6	9.59	10	9.17	10	N.	/ A	
602.11a		100	5500	6	9.37	10	9.06	10	IN.	A	
	U-NII-2C	116	5580		9.25	10	8.74	10			
		140	5700		9.22	10	8.84	10			
		149	5745		9.19	10	8.23	10			
	U-NII-3	157	5785		9.06	10	8.31	10			
		165	5825		8.7	10	8.49	10			



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5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
		36	5180		9.45	10	9.1	10	12.29	13
	U-NII-1	44	5220		9.49	10	8.94	10	12.23	13
		48	5240		9.66	10	8.68	10	12.21	13
		52	5260		9.35	10	8.78	10	12.08	13
	U-NII-2A	60	5300		9.18	10	9.01	10	12.11	13
802.11n20-HT0		64	5320	MCS0	9.16	10	8.86	10	12.02	13
002.111120-H10		100	5500	IVICSU	9.12	10	8.67	10	11.91	13
	U-NII-2C	116	5580		8.84	10	8.72	10	11.79	13
		140	5700		8.99	10	8.59	10	11.80	13
		149	5745		9.16	10	8.44	10	11.83	13
	U-NII-3	157	5785		8.86	10	8.62	10	11.75	13
		165	5825		8.73	10	8.7	10	11.73	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
	U-NII-1	38	5190		10.08	10.5	9.44	10	12.78	13
	O-INII- I	46	5230		10.02	10.5	9.46	10	12.76	13
	U-NII-2A	54	5270		10.05	10.5	9.54	10	12.81	13
	U-MII-ZA	62	5310		10.11	10.5	9.87	10	13.00	13
802.11n40-HT0		102	5510	MCS0	10.14	10.5	9.66	10	12.92	13
	U-NII-2C	110	5550		10.18	10.5	9.58	10	12.90	13
		134	5670		10.22	10.5	9.56	10	12.91	13
	11 11 0	151	5755		10.06	10.5	9.49	10	12.79	13
	U-NII-3	159	5795		9.21	10.5	9.34	10	12.29	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
		36	5180		9.46	10	8.75	10	12.13	13
	U-NII-1	44	5220		9.57	10	8.73	10	12.18	13
		48	5240		9.61	10	8.87	10	12.27	13
		52	5260		9.45	10	8.98	10	12.23	13
	U-NII-2A	60	5300		9.2	10	9.07	10	12.15	13
802.11ac20-HT0		64	5320	MCS0	9.21	10	8.89	10	12.06	13
002.114020-1110		100	5500	WICCO	9.14	10	8.84	10	12.00	13
	U-NII-2C	116	5580		8.84	10	8.48	10	11.67	13
		140	5700		9.06	10	8.56	10	11.83	13
		149	5745		9.19	10	8.46	10	11.85	13
	U-NII-3	157	5785		9.08	10	8.42	10	11.77	13
		165	5825		8.77	10	8.41	10	11.60	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
802.11ac40-HT0	U-NII-1	38	5190	MCS0	10.06	10.5	9.36	10	12.73	13



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	ĺ	46	5230		10.03	10.5	9.33	10	12.70	13
		54	5270		10.03	10.5	9.49	10	12.78	13
	U-NII-2A	62	5310		10.03	10.5	9.7	10	12.88	13
		102	5510		10.05	10.5	9.67	10	12.87	13
	U-NII-2C	110	5550		10.11	10.5	9.66	10	12.90	13
	0-1111-20	134	5670		10.11	10.5	9.53	10	12.93	13
		151	5755		10.27	10.5	9.58	10	12.85	13
	U-NII-3									
		159	5795		9.42	10.5	9.16	10	12.30	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
	U-NII-1	42	5210		10.09	10.5	9.43	10	12.78	13
	U-NII-2A	58	5290		9.96	10.5	9.42	10	12.71	13
802.11ac80-HT0	U-NII-2C	106	5530	MCS0	9.76	10.5	9.41	10	12.60	13
	U-MII-2C	122	5610		9.65	10.5	9.36	10	12.27	13
	U-NII-3	155	5775		9.15	10.5	9.37	10	12.78	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
	U-NII-1	/	/		/	/	/	/	/	/
000 44400 LITO	U-NII-2A	50	5250	MCCO	9.85	10	9.29	10	12.59	13
802.11ac160-HT0	U-NII-2C	114	5570	MCS0	9.78	10	9.24	10	12.53	13
	U-NII-3	/	/		/	/	/	/	/	/
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
		36	5180		9.48	10	8.75	10	12.14	13
	U-NII-1	44	5220		9.53	10	8.98	10	12.27	13
		48								
		40	5240		9.58	10	9.13	10	12.37	13
		52	5240 5260		9.58 9.43	10 10	9.13 9.24	10 10	12.37 12.35	13 13
	U-NII-2A	_								
	U-NII-2A	52	5260		9.43	10	9.24	10	12.35	13
802.11ax20-VHT0	U-NII-2A	52 60	5260 5300	MCS0	9.43 9.36	10 10	9.24 9.27	10	12.35 12.33	13 13
802.11ax20-VHT0	U-NII-2A U-NII-2C	52 60 64	5260 5300 5320	MCS0	9.43 9.36 9.45	10 10 10	9.24 9.27 9.25	10 10 10	12.35 12.33 12.36	13 13 13
802.11ax20-VHT0		52 60 64 100	5260 5300 5320 5500	MCS0	9.43 9.36 9.45 9.16	10 10 10 10	9.24 9.27 9.25 9.08	10 10 10 10	12.35 12.33 12.36 12.13	13 13 13 13
802.11ax20-VHT0		52 60 64 100 116	5260 5300 5320 5500 5580	MCS0	9.43 9.36 9.45 9.16 9.01	10 10 10 10 10	9.24 9.27 9.25 9.08 8.67	10 10 10 10 10	12.35 12.33 12.36 12.13 11.85	13 13 13 13 13
802.11ax20-VHT0		52 60 64 100 116 140	5260 5300 5320 5500 5580 5700	MCS0	9.43 9.36 9.45 9.16 9.01 9.08	10 10 10 10 10 10	9.24 9.27 9.25 9.08 8.67 8.72	10 10 10 10 10 10	12.35 12.33 12.36 12.13 11.85 11.91	13 13 13 13 13 13
802.11ax20-VHT0	U-NII-2C	52 60 64 100 116 140 149	5260 5300 5320 5500 5580 5700 5745 5785	MCS0	9.43 9.36 9.45 9.16 9.01 9.08 9.1 9.07	10 10 10 10 10 10 10 10	9.24 9.27 9.25 9.08 8.67 8.72 8.64 8.63	10 10 10 10 10 10 10 10	12.35 12.33 12.36 12.13 11.85 11.91 11.89 11.87	13 13 13 13 13 13 13
802.11ax20-VHT0	U-NII-2C	52 60 64 100 116 140	5260 5300 5320 5500 5580 5700 5745	MCS0 Data Rate (Mbps)	9.43 9.36 9.45 9.16 9.01 9.08 9.1	10 10 10 10 10 10 10	9.24 9.27 9.25 9.08 8.67 8.72 8.64	10 10 10 10 10 10 10	12.35 12.33 12.36 12.13 11.85 11.91 11.89	13 13 13 13 13 13 13 13
	U-NII-2C U-NII-3	52 60 64 100 116 140 149 157 165	5260 5300 5320 5500 5580 5700 5745 5785 5825	Data Rate	9.43 9.36 9.45 9.16 9.01 9.08 9.1 9.07 8.84 Average Power (dBm)	10 10 10 10 10 10 10 10 10	9.24 9.27 9.25 9.08 8.67 8.72 8.64 8.63 8.54 Average Power (dBm)	10 10 10 10 10 10 10 10 10	12.35 12.33 12.36 12.13 11.85 11.91 11.89 11.87 11.70 Average Power (dBm)	13 13 13 13 13 13 13 13 13
	U-NII-2C U-NII-3	52 60 64 100 116 140 149 157 165	5260 5300 5320 5500 5580 5700 5745 5785 5825 Frequency (MHz)	Data Rate	9.43 9.36 9.45 9.16 9.01 9.08 9.1 9.07 8.84 Average Power (dBm) Ant 0 9.76	10 10 10 10 10 10 10 10 10 Tune up (dBm)	9.24 9.27 9.25 9.08 8.67 8.72 8.64 8.63 8.54 Average Power (dBm) Ant 1 9.09	10 10 10 10 10 10 10 10 10 10 Tune up (dBm)	12.35 12.33 12.36 12.13 11.85 11.91 11.89 11.87 11.70 Average Power (dBm) MIMO 12.45	13 13 13 13 13 13 13 13 13 Tune up (dBm)
5GHz	U-NII-2C U-NII-3 mode U-NII-1	52 60 64 100 116 140 149 157 165 Channel	5260 5300 5320 5500 5580 5700 5745 5785 5825 Frequency (MHz) 5190 5230	Data Rate (Mbps)	9.43 9.36 9.45 9.16 9.01 9.08 9.1 9.07 8.84 Average Power (dBm) Ant 0 9.76 9.69	10 10 10 10 10 10 10 10 10 Tune up (dBm)	9.24 9.27 9.25 9.08 8.67 8.72 8.64 8.63 8.54 Average Power (dBm) Ant 1 9.09 9.18	10 10 10 10 10 10 10 10 10 10 Tune up (dBm) 10	12.35 12.33 12.36 12.13 11.85 11.91 11.89 11.87 11.70 Average Power (dBm) MIMO 12.45 12.45	13 13 13 13 13 13 13 13 13 13 13 13 13 1
	U-NII-2C U-NII-3	52 60 64 100 116 140 149 157 165 Channel	5260 5300 5320 5500 5580 5700 5745 5785 5825 Frequency (MHz)	Data Rate	9.43 9.36 9.45 9.16 9.01 9.08 9.1 9.07 8.84 Average Power (dBm) Ant 0 9.76	10 10 10 10 10 10 10 10 10 Tune up (dBm)	9.24 9.27 9.25 9.08 8.67 8.72 8.64 8.63 8.54 Average Power (dBm) Ant 1 9.09	10 10 10 10 10 10 10 10 10 10 Tune up (dBm)	12.35 12.33 12.36 12.13 11.85 11.91 11.89 11.87 11.70 Average Power (dBm) MIMO 12.45	13 13 13 13 13 13 13 13 13 13 13 13 13 1



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		110	5550		9.79	10	9.29	10	12.56	13
		134	5670		10	10	9.38	10	12.71	13
	U-NII-3	151	5755		9.89	10	9.16	10	12.55	13
	U-INII-3	159	5795		9.15	10	8.96	10	12.07	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
	U-NII-1	42	5210		9.77	10	9.16	10	12.49	13
	U-NII-2A	58	5290		9.57	10	9.11	10	12.36	13
802.11ax80-VHT0	11 111 00	106	5530	MCS0	9.42	10	9.02	10	12.23	13
	U-NII-2C	122	5610		9.36	10	9.07	10	12.02	13
	U-NII-3	155	5775		9	10	9.02	10	12.49	13
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm) Ant 0	Tune up (dBm)	Average Power (dBm) Ant 1	Tune up (dBm)	Average Power (dBm) MIMO	Tune up (dBm)
	U-NII-1	/	/		/	/	/	/	/	/
802.11ax160-	U-NII-2A	50	5250	MCS0	9.48	10	9.15	10	12.33	13
VHT0	U-NII-2C	114	5570	IVICSU	9.45	10	9.12	10	12.30	13
	U-NII-3	/	/		/	/	/	/	/	/

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.



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8.1.2 **Conducted Power Of BT**

	ВТ		Average Conducted Power	Tune up (dBm)
Modulation	Channel	Frequency(MHz)	(dBm)	rune up (ubin)
	0	2402	8.45	9
GFSK	39	2441	8.44	9
	78	2480	8.62	9
	0	2402	6.28	7
π/4DQPSK	39	2441	6.25	7
	78	2480	6.42	7
	0	2402	6.38	7
8DPSK	39	2441	6.34	7
	78	2480	6.51	7
	BLE		Average Conducted	
Modulation	Channel	Frequency(MHz)	Power (dBm)	Tune up (dBm)
	0	2402	4.27	5
GFSK 1M	19	2440	3.73	5
	39	2480	3.84	5
	0	2402	4.28	5
GFSK 2M	19	2440	3.75	5
	39	2480	3.82	5



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8.2 SAR-based Exemption

The following SAR test exclusion Thresholds based on KDB 447498 D04 Interim General RF Exposure Guidance v01 Appendix B B.4

- Appendix				Max	Antenna	Max	Antenna	Exclusion	
Freq.Band	Frequency	Position	Antenna	Power	Gain	Power	to user (mm)	Power	Exclusion
	(MHz)			(dBm)	(dBi)	(mW)		(mW)	(Yes/No)
	2450	Back side	Α	16	1.8	39.8	5	2.7	No
MUEL 0.40	2450	Edge 1	Α	16	1.8	39.8	5	2.7	No
WIFI 2.4G	2450	Edge 2	Α	16	1.8	39.8	64.2	352.39	Yes
	2450	Edge 3	Α	16	1.8	39.8	320	/	Yes
	2450	Edge 4	Α	16	1.8	39.8	140	1552.65	Yes
	2450	Back side	В	16	2.5	39.8	5	2.7	No
MUEL 0.40	2450	Edge 1	В	16	2.5	39.8	70	415.4	Yes
WIFI 2.4G	2450	Edge 2	В	16	2.5	39.8	5	2.7	No
	2450	Edge 3	В	16	2.5	39.8	225	/	Yes
	2450	Edge 4	В	16	2.5	39.8	205	/	Yes
	2450	Back side	А	9	1.8	7.9	5	2.7	No
рт	2450	Edge 1	Α	9	1.8	7.9	5	2.7	No
BT	2450	Edge 2	Α	9	1.8	7.9	64.2	352.39	Yes
	2450	Edge 3	Α	9	1.8	7.9	320	/	Yes
	2450	Edge 4	Α	9	1.8	7.9	140	1552.65	Yes
	5800	Back side	А	10.5	3.2	11.2	5	1.38	No
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5800	Edge 1	Α	10.5	3.2	11.2	5	1.38	No
WIFI 5G	5800	Edge 2	Α	10.5	3.2	11.2	64.2	284.89	Yes
	5800	Edge 3	Α	10.5	3.2	11.2	320	/	Yes
	5800	Edge 4	Α	10.5	3.2	11.2	140	1452.4	Yes
	5800	Back side	В	10	6.8	10.0	5	1.38	No
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5800	Edge 1	В	10	6.8	10.0	70	341.31	Yes
WIFI 5G	5800	Edge 2	В	10	6.8	10.0	5	1.38	No
	5800	Edge 3	В	10	6.8	10.0	225	/	Yes
	5800	Edge 4	В	10	6.8	10.0	205	/	Yes

Note:

- 1. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- 2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 3. Per KDB 447498 D04, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
- 4. Per KDB 447498 D04, the 1-g and 10-g SAR test exclusion thresholds for 300 MHz to 6 GHz This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



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$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm}}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

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

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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

5. when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.



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8.3 Measurement of SAR Data

8.3.1 SAR Result Of 2.4GHz Wi-Fi

Test position	Test mode	Antenna	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 (W/kg) 1-g	Liquid Temp.	SAR limit (W/kg) 1-g
				•	В	ody Test d	ata (Separ	ate 0mm)	•		•	•		
Edge 1	802.11n HT40 SISO	Ant A	9/2452	85.08%	1.175	1.03	0.472	-0.05	12.73	13	1.064	1.288	22.0	1.6
Edge 2	802.11n HT40 SISO	Ant A	9/2452	85.08%	1.175	0.302	0.164	0.02	12.73	13	1.064	0.378	22.0	1.6
Back side	802.11n HT40 SISO	Ant A	9/2452	85.08%	1.175	0.140	0.040	-0.16	12.73	13	1.064	0.175	22.0	1.6
Edge 1	802.11n HT40 SISO	Ant A	3/2422	85.08%	1.175	1.13	0.350	0.07	12.71	13	1.069	1.419	22.0	1.6
Edge 1	802.11n HT40 SISO	Ant A	6/2437	85.08%	1.175	0.970	0.290	-0.15	12.66	13	1.081	1.233	22.0	1.6
					В	ody Test d	ata (Separ	ate 0mm)						
Edge 1	802.11 b	Ant A	11/2462	99.45%	1.006	1.12	0.620	0.09	12.86	13	1.033	1.164	22.0	1.6
Edge 2	802.11 b	Ant A	11/2462	99.45%	1.006	0.316	0.172	0.11	12.86	13	1.033	0.328	22.0	1.6
Back side	802.11 b	Ant A	11/2462	99.45%	1.006	0.230	0.160	0.00	12.86	13	1.033	0.239	22.0	1.6
Edge 1	802.11 b	Ant A	1/2412	99.45%	1.006	1.24	0.480	0.15	12.56	13	1.107	1.380	22.0	1.6
Edge 1	802.11 b	Ant A	6/2437	99.45%	1.006	1.06	0.420	-0.06	12.57	13	1.104	1.177	22.0	1.6
					В	ody Test d	ata (Separ	ate 0mm)						
Edge 1	802.11n HT40 SISO	Ant B	9/2452	85.08%	1.175	0.129	0.071	0.01	12.29	13	1.178	0.178	22.0	1.6
Edge 2	802.11n HT40 SISO	Ant B	9/2452	85.08%	1.175	0.520	0.110	-0.14	12.29	13	1.178	0.720	22.0	1.6
Back side	802.11n HT40 SISO	Ant B	9/2452	85.08%	1.175	0.875	0.377	0.04	12.29	13	1.178	1.211	22.0	1.6
Back side	802.11n HT40 SISO	Ant B	3/2422	85.08%	1.175	0.570	0.160	-0.06	12.15	13	1.216	0.815	22.0	1.6
Back side	802.11n HT40 SISO	Ant B	6/2437	85.08%	1.175	0.610	0.240	-0.12	12.2	13	1.202	0.862	22.0	1.6
					В	ody Test d	ata (Separ	ate 0mm)						
Edge 1	802.11 b	Ant B	11/2462	99.45%	1.006	0.146	0.082	-0.09	12.21	13	1.199	0.176	22.0	1.6
Edge 2	802.11 b	Ant B	11/2462	99.45%	1.006	0.590	0.240	0.01	12.21	13	1.199	0.712	22.0	1.6
Back side	802.11 b	Ant B	11/2462	99.45%	1.006	1.01	0.52	0.18	12.21	13	1.199	1.219	22.0	1.6
Back side	802.11 b	Ant B	1/2412	99.45%	1.006	0.576	0.277	0.05	11.85	13	1.303	0.755	22.0	1.6
Back side	802.11 b	Ant B	6/2437	99.45%	1.006	0.680	0.360	0.01	12.05	13	1.245	0.851	22.0	1.6

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.



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4) Per KDB248227 D01, for Body SAR test of Wi-Fi2.4G, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure.

The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.



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8.3.2 SAR Result Of Bluetooth

Test position	Test mode	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 (W/kg) 1-g	Liquid Temp.	SAR limit (W/kg) 1-g
						Body Test	data (Sep	arate 0mn	n)					
Edge 1	GFSK	Ant A	78/2480	76.95%	1.3	0.567	0.228	-0.13	8.62	9	1.091	0.804	22.0	1.6
Edge 2	GFSK	Ant A	78/2480	76.95%	1.3	0.109	0.059	0.05	8.62	9	1.091	0.154	22.0	1.6
Back side	GFSK	Ant A	78/2480	76.95%	1.3	0.202	0.071	0.07	8.62	9	1.091	0.286	22.0	1.6
Edge 1	GFSK	Ant A	0/2402	76.95%	1.3	0.395	0.171	-0.11	8.45	9	1.135	0.583	22.0	1.6
Edge 1	GFSK	Ant A	39/2441	76.95%	1.3	0.497	0.197	0.15	8.44	9	1.138	0.735	22.0	1.6

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) The scaled SAR = Measured SAR(W/kg) * Duty Cycle Scaled factor * Scaled factor
- 3) Duty Cycle Scaled factor = 100% Duty Cycle / Measured Duty Cycle
- 4) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.



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8.3.3 SAR Result Of 5GHz Wi-Fi

Test position	Test mode	Test mode	Test Ch./Freq.	Duty Cycle %	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 1-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp.	SAR limit (W/kg) 1-g
					Body	Test data l	J-NII-1 (Se	parate 0m	m)					
Edge 1	802.11ac 80M	Ant A	42/5210	85.41	1.171	0.952	0.354	0.15	10.09	10.5	1.099	1.225	22.2	1.6
Edge 2	802.11ac 80M	Ant A	42/5210	85.41	1.171	0.118	0.074	-0.03	10.09	10.5	1.099	0.152	22.2	1.6
Back side	802.11ac 80M	Ant A	42/5210	85.41	1.171	0.378	0.127	0.04	10.09	10.5	1.099	0.486	22.2	1.6
Edge 1	802.11ac 80M	Ant A	58/5290	85.41	1.171	0.940	0.310	0.02	9.96	10.5	1.132	1.246	22.2	1.6
					Body	Test data l	J-NII-1 (Se	parate 0m	m)					
Edge 1	802.11ac 160M	Ant B	50/5250	78.95	1.267	0.115	0.062	0.04	9.29	10	1.178	0.172	22.2	1.6
Edge 2	802.11ac 160M	Ant B	50/5250	78.95	1.267	0.688	0.249	0.14	9.29	10	1.178	1.027	22.2	1.6
Back side	802.11ac 160M	Ant B	50/5250	78.95	1.267	0.783	0.343	-0.16	9.29	10	1.178	1.168	22.2	1.6
					Body T	est data U	-NII-2C (S	eparate 0m	nm)					
Edge 1	802.11ac 80M	Ant A	106/5530	85.41	1.171	0.940	0.327	-0.16	9.76	10.5	1.186	1.305	22.2	1.6
Edge 2	802.11ac 80M	Ant A	106/5530	85.41	1.171	0.127	0.068	0.01	9.76	10.5	1.186	0.176	22.2	1.6
Back side	802.11ac 80M	Ant A	106/5530	85.41	1.171	0.320	0.101	0.16	9.76	10.5	1.186	0.444	22.2	1.6
					Body T	est data U	-NII-2C (Se	eparate 0m	nm)					
Edge 1	802.11ac 160M	Ant B	114/5570	98.37	1.017	0.136	0.075	-0.02	9.24	10	1.191	0.165	22.2	1.6
Edge 2	802.11ac 160M	Ant B	114/5570	98.37	1.017	0.881	0.351	0	9.24	10	1.191	1.067	22.2	1.6
Back side	802.11ac 160M	Ant B	114/5570	98.37	1.017	0.913	0.375	0.17	9.24	10	1.191	1.106	22.2	1.6
	•	=	•		Body	Test data l	J-NII-3 (Se	parate 0m	m)				=	,
Edge 1	802.11ac 80M	Ant A	155/5775	85.41	1.171	0.830	0.371	-0.05	9.15	10.5	1.365	1.326	22.2	1.6
Edge 2	802.11ac 80M	Ant A	155/5775	85.41	1.171	0.122	0.065	0.02	9.15	10.5	1.365	0.195	22.2	1.6
Back side	802.11ac 80M	Ant A	155/5775	85.41	1.171	0.251	0.111	-0.13	9.15	10.5	1.365	0.401	22.2	1.6
					Body	Test data l	J-NII-3 (Se	parate 0m	m)					
Edge 1	802.11ac 80M	Ant B	155/5775	85.41	1.171	0.093	0.051	-0.05	9.37	10	1.156	0.126	22.2	1.6
Edge 2	802.11ac 80M	Ant B	155/5775	85.41	1.171	0.660	0.317	-0.16	9.37	10	1.156	0.894	22.2	1.6
Back side	802.11ac 80M	Ant B	155/5775	85.41	1.171	0.820	0.351	0	9.37	10	1.156	1.110	22.2	1.6

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) 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.
- 5) 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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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

Omnuntario Guo II		
NO.	Simultaneous Transmission Configuration	Body
1	WIFI 2.4G Ant B + BT	Yes
2	WIFI 5G Ant B + BT	Yes
3	WIFI 2.4G MIMO	Yes
4	WIFI 5G MIMO	Yes

8.4.1 Simultaneous Transmission SAR Summation Scenario for Body

Exposure position	①MAX. WLAN2.4G SAR (W/kg) Ant A	②MAX. WLAN2.4G SAR (W/kg) Ant B	③MAX. WLAN	WLAN 5G SAR (W/kg)	⑤MAX BT SAR (W/kg)	Summed SAR				
			5G SAR (W/kg) Ant A			0+2	3+4	2+5	4+5	Volume scan
Back side	0.239	1.219	0.486	1.168	0.286	1.458	1.654	1.505	1.454	NO
Edge1	1.419	0.178	1.326	0.172	0.804	1.597	1.498	0.982	0.976	NO
Edge2	0.378	0.712	0.195	1.067	0.154	1.090	1.262	0.866	1.221	NO

Note: $SPLSR=(SAR1+SAR2)^{1.5}/R=1.654^{1.5}/110=0.02 < 0.04$.



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9 Equipment list

Test Platform	SPEAG DASY5 Professional				
Location	Compliance Certification Services (Kunshan) Inc.				
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)				

Hardware Reference

	Equipment	Manufacturer Model		Serial Number	Calibration Date	Due date of calibration
	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A
	Signal Generator	Agilent	E5182A	MY50142015	2021/09/24	2022/09/23
	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2022/02/20	2023/02/19
	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A
	DAE	SPEAG	DAE4	1305	2022/04/27	2023/04/26
	E-field PROBE	SPEAG	EX3DV4	3801	2021/06/26	2022/06/27
	Dipole	SPEAG	D2450V2	817	2022/04/01	2025/03/31
	Dipole	SPEAG	D5GHzV2	1145	2022/02/15	2025/02/14
	Electro Thermometer	DTM	DTM3000	3030	2021/10/17	2022/10/16
\boxtimes	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A
	3db ATTENUATOR	MINI	MCL BW- S3W5	0533	N/A	N/A
	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A
	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A
	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A
\boxtimes	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A
	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A
	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D



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Appendix A: Detailed System Check Results

The plots are showing as followings.



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220500074201

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Date: 2022/06/18

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-Head D2450

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.824 \text{ S/m}$; $\epsilon_r = 39.15$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3801; ConvF(7.36, 7.36, 7.36); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305: Calibrated: 2022/04/27

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 18.4 W/kg

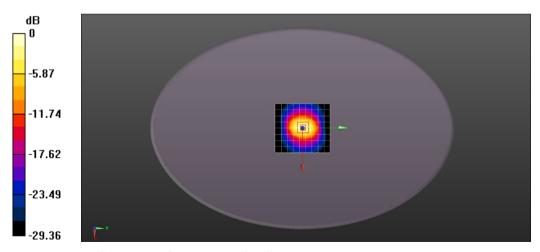
System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan

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

Reference Value = 105.1 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.65 W/kgMaximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg



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Date: 2022/06/15

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D5250

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1145

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5250 MHz; $\sigma = 4.582$ S/m; $\epsilon_r = 36.355$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3801; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2022/04/27

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

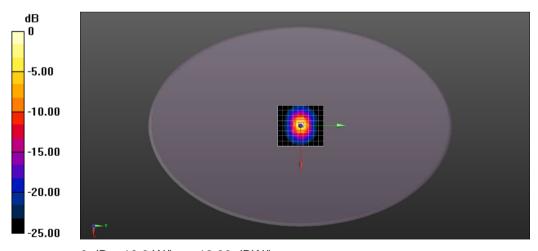
Maximum value of SAR (measured) = 16.7 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 71.58 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.29 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg



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Date: 2022/06/16

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D5600

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1145

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5600 MHz; $\sigma = 4.956$ S/m; $\varepsilon_r = 35.477$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3801; ConvF(4.65, 4.65, 4.65); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2022/04/27

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz 2/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

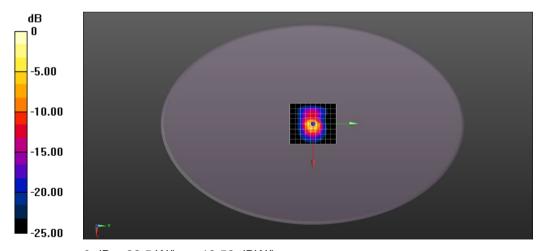
Maximum value of SAR (measured) = 20.5 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz 2/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

dz=1.4mm; Reference Value = 76.01 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 42.8 W/kg

SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.16 W/kg Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg



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Date: 2022/06/17

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

SystemPerformanceCheck-D5750

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1145

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; $\sigma = 5.291$ S/m; $\epsilon_r = 35.566$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

• Probe: EX3DV4 - SN3801; ConvF(4.93, 4.93, 4.93); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2022/04/27

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

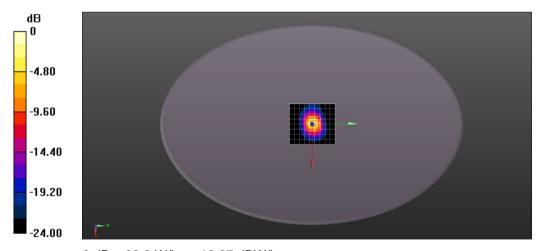
System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.2 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.70 V/m; Power Drift = 0.22 dB Peak SAR (extrapolated) = 40.8 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.26 W/kg Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg



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Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Date: 2022/06/18

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WLAN2.4GHz 802.11n40 Edge 1 Ch3 ANTA 0mm

DUT: Mobile Tablet; Type: 313T/MD

Communication System: UID 0, WiFi (0); Frequency: 2422 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2422 MHz; $\sigma = 1.789 \text{ S/m}$; $\varepsilon_r = 39.232$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3801; ConvF(7.36, 7.36, 7.36); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2022/04/27

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

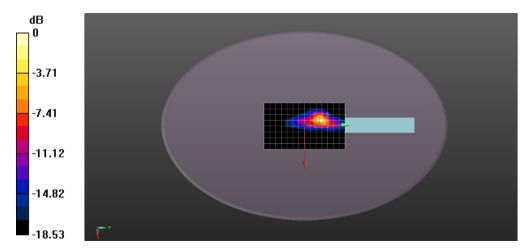
Configuration/Body/Area Scan (9x15x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.09 W/kg

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

Reference Value = 11.29 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.350 W/kgMaximum value of SAR (measured) = 2.43 W/kg



0 dB = 2.43 W/kg = 3.86 dBW/kg



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Date: 2022/06/14

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

Bluetooth GFSK Edge1 0mm Ch78

DUT: Mobile Tablet; Type: 313T/MD

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2480 MHz; $\sigma = 1.864$ S/m; $\epsilon_r = 39.845$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3801; ConvF(7.36, 7.36, 7.36); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2022/04/27

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

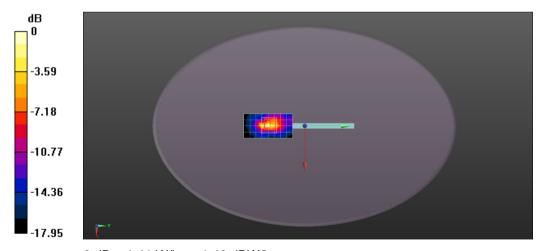
Configuration/Body/Area Scan (5x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 1.18 W/kg

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

Reference Value = 9.796 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.228 W/kg Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg



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Date: 2022/06/15

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WLAN5GHz 802.11ac80 Edge 1 Ch155 ANT A 0mm

DUT: Mobile Tablet; Type: 313T/MD

Communication System: UID 0, WiFi (0); Frequency: 5775 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5775 MHz; σ = 5.298 S/m; ϵ_r = 35.733; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3801; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/07/26;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2022/04/27

• Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

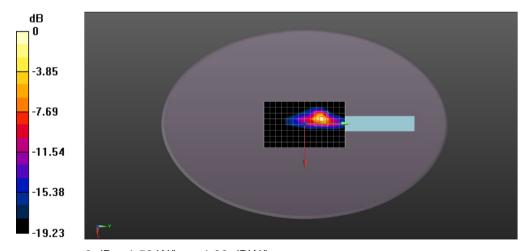
Configuration/Body/Area Scan (11x17x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 1.32 W/kg

Configuration/Body/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.097 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 9.45 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.371 W/kg Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg = 1.99 dBW/kg



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Appendix C: Calibration certificate

Appendix D: Photographs

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