FCC SAR TEST REPORT

FCC ID : RAS-MT7921

Equipment : 2TX 11ax (WiFi6) + BLE Combo Card

Brand Name : MediaTek
Model Name : MT7921

Applicant : MEDIATEK Inc.

No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu

City 30078 Taiwan

Standard : FCC 47 CFR Part 2 (2.1093)

The product was tested inside of Lenovo Notebook Computer.

The product was received on Jan. 06, 2022 and testing was started from Jan. 25, 2022 and completed on Jan. 25, 2022. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

lac-MRA



Report No.: FA1D2309-06

Sporton International Inc. EMC & Wireless Communications Laboratory

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History of this test report

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Report No.	Version	Description	Issued Date
FA1D2309-06	01	Initial issue of report	Feb. 07, 2022

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for MEDIATEK Inc., 2TX 11ax (WiFi6) + BLE Combo Card, MT7921, are as follows.

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Factorial	quipment Frequency Class Band		Highest SAR Summary	Highest Simultaneous
Equipment Class			Body	Transmission
Class		and	1g SAR (W/kg)	1g SAR (W/kg)
DTS	WLAN	2.4GHz WLAN	0.83	1.42
NII	WLAIN	5GHz WLAN	0.62	1.25
DSS	2.4GHz Band Bluetooth		0.08	1.42
Date of Testing:			2022/	1/25

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: <u>Jason Wang</u> Report Producer: <u>Carlie Tsai</u>

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

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3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification			
Equipment Name 2TX 11ax (WiFi6) + BLE Combo Card			
Brand Name	MediaTek		
Model Name	MT7921		
FCC ID RAS-MT7921			
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz		
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE		

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^{1.} There are four kind samples as below, Selected Sample 1 as the main testing and Sample 2, 3 and 4 will select worst case found in Sample 1 performs.

	Host Information			
Equipment Name	Notebook Computer			
Brand Name	Lenovo			
Model Name	ThinkBook 15 G4 ABA*********(*=0~9 , A~Z, a~z, "- " or blank, for marketing use only, with no impact on RF compliance of the product)			
Marketing Name	ThinkBook 15 G4 ABA			
EUT Stage	Identical Prototype			

Sample	Vendor	Material
Sample 1	нтк	Metal
Sample 2	Southstar	Metal
Sample 3	нтк	Plastic
Sample 4	Southstar	Plastic

	Antenna Information								
	Sample with Cover : Metal								
	Ant. Type	PIFA	connector	SpeedTeh C87P115-00002-H		Ant. Type	PIFA	connector	MHF-B13-N-01
	Model No.	Main: DC33002O300 (0ACCN021026N)	DC33	Aux: 002O310 N021027N)		Model No.	Main: DC33002O200 (N12-7953-R0A)	Aux: DC330020 (N12-7954	
1		Peak Ga	in (dBi)		2		Peak G	ain (dBi)	
	2400~2483.5MHz	Main: -1.5 Aux: -0.62	5470~5725MHz	Main: -1.4 Aux: -0.81	_	2400~2483.5MHz	Main: 1.03 Aux: 0.66	5470~5725MHz	Main: 2.34 Aux: 2.29
	5150~5250MHz	Main: -1.58 Aux: -1.72	5725~5850MHz	Main: -1.4 Aux: -0.81		5150~5250MHz	Main: 2.35 Aux: 2.05	5725~5850MHz	Main: 2.56 Aux: 2.29
	5250~5350MHz	Main: -1.59 Aux: -1.72				5250~5350MHz	Main: 2.35 Aux: 2.05		
				Sample with	Сс	over : Plastic			
	Ant. Type	PIFA	connector	SpeedTeh C87P115-00002-H		Ant. Type	PIFA	connector	MHF-B13-N-01
	Model No.	Main: DC33002O300 (0ACCN021026N)	DC33	Aux: DC33002O310 (0ACCN021027N)		Model No.	Main: DC33002O200 (N12-7953-R0A)	Aux: DC330020 (N12-7954	
1	Peak Gain (dBi)				2		Peak G	ain (dBi)	
	2400~2483.5MHz	Main: -1 Aux: -1.09	5470~5725MHz	Main: -1.38 Aux: -0.42	_	2400~2483.5MHz	Main: 1.32 Aux: 0.92	5470~5725MHz	Main: 2.55 Aux: 2.37
	5150~5250MHz	Aux: -1./3	5725~5850MHz	Main: -1.52 Aux: -0.06		5150~5250MHz	Main: 2.38 Aux: 2.42	5725~5850MHz	Main: 2.8 Aux: 2.35
	5250~5350MHz	Main: -1.19 Aux: -1.71				5250~5350MHz	Main: 2.38 Aux: 2.42		

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4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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4.2 Controlled Environment

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). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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5. Specific Absorption Rate (SAR)

5.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

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5.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (p). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

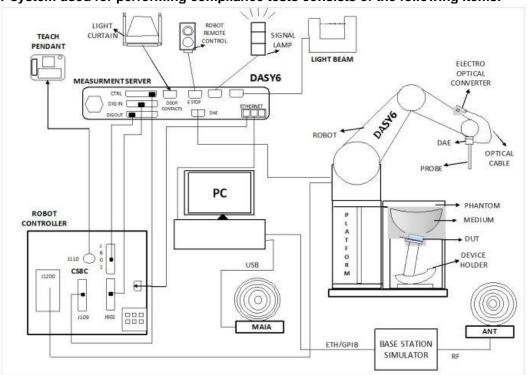
$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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6. System Description and Setup

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



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- The DASY system in DASY6/DASY5 V5.2 SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY5/DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Test Site	EMC & Wireless Comr	V	/ensan Laborato	ry			
	TW.		TW3786				
Test Site Location	No.52, Huaya 1st Rd.,	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan			hua 3rd, Rd.,		
	City 333, Taiwan			Guishan Dist., Taoyuan City 333010, Taiwan			
	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY		
Test Site No.	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY			
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY			

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6.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	5 μW/g – >100 mW/g; Linearity: ±0.2 dB
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm



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<EX3DV4 Probe>

Construction	Symmetric design with triangular core
	Built-in shielding against static charges
	PEEK enclosure material (resistant to organic
	solvents, e.g., DGBE)
Frequency	10 MHz – >6 GHz
	Linearity: ±0.2 dB (30 MHz – 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 – >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



6.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

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6.4 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	1
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 5
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

2 ± 0.2 mm (sagging: <1%)	
Approx. 30 liters	
Major ellipse axis: 600 mm Minor axis: 400 mm	
	Approx. 30 liters Major ellipse axis: 600 mm

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

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6.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





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Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

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7. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

7.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

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7.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

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7.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution in x or y dimension of the test of measurement point on the test	on, is smaller than the above, must be ≤ the corresponding levice with at least one

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7.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	$\Delta z_{Zoom}(1)$: between 1^{st} two points closest to phantom surface		≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid $\Delta z_{Z_{00m}}(n>1)$: between subsequent points		≤ 1.5·∆z	Zoom(n-1)
Minimum zoom scan volume	X V 7		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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

7.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

7.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

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When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> 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.

8. Test Equipment List

Manufacturer	Name of Equipment	Turno/Mandal	Serial Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Seriai Number	Last Cal.	Due Date
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	929	Nov. 21, 2019	Nov. 18, 2022
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1128	Dec. 16, 2019	Dec. 13, 2022
SPEAG	Data Acquisition Electronics	DAE4	376	Nov. 22, 2021	Nov. 21, 2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Apr. 23, 2021	Apr. 22, 2022
RCPTWN	Thermometer	HTC-1	TM560-2	Oct. 28, 2021	Oct. 27, 2022
R&S	BT Base Station	CBT	100815	Feb. 19, 2021	Feb. 18, 2022
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 24, 2021	Oct. 23, 2022
Keysight	ENA Network Analyzer	E5071C	MY46104758	Sep. 07, 2021	Sep. 06, 2022
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 24, 2021	Sep. 23, 2022
LINE SEIKI	Digital Thermometer	DTM3000-spezial	2942	Oct. 26, 2021	Oct. 25, 2022
Anritsu	Power Meter	ML2495A	1419002	Aug. 18, 2021	Aug. 17, 2022
Anritsu	Power Sensor	MA2411B	1911176	Aug. 18, 2021	Aug. 17, 2022
Anritsu	Power Meter	ML2496A	2119003	Jun. 09, 2021	Jun. 08, 2022
Anritsu	Power Sensor	MA2411B	1726150	Oct. 09, 2021	Oct. 08, 2022
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 16, 2021	Jul. 15, 2022
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 19, 2021	Aug. 18, 2022
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 12, 2021	Oct. 11, 2022
Mini-Circuits	Power Amplifier	ZVE-8G+	479102029	Sep. 06, 2021	Sep. 05, 2022
ATM	Dual Directional Coupler	C122H-10	P610410z-02	No	te 1
Woken	Attenuator 1	WK0602-XX	N/A	No	te 1
PE	Attenuator 2	PE7005-10	N/A	No	te 1
PE	Attenuator 3	PE7005- 3	N/A	No	te 1

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General Note:

- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- 2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

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9. System Verification

9.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18° C to 25° C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18° C to 25° C and within \pm 2° C of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
2450	22.5	1.797	39.322	1.80	39.20	-0.17	0.31	±5	2022/1/25
5250	22.5	4.609	36.209	4.71	35.95	-2.14	0.72	±5	2022/1/25
5600	22.5	4.959	35.782	5.07	35.50	-2.19	0.79	±5	2022/1/25
5750	22.5	5.132	35.618	5.22	35.35	-1.69	0.76	±5	2022/1/25

9.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
SAR03	2022/1/25	2450	50	D2450V2-929	EX3DV4 - SN3925	DAE4 Sn376	2.51	53.10	50.2	-5.46
SAR03	2022/1/25	5250	50	D5GHzV2-1128-5250	EX3DV4 - SN3925	DAE4 Sn376	3.76	80.00	75.2	-6.00
SAR03	2022/1/25	5600	50	D5GHzV2-1128-5600	EX3DV4 - SN3925	DAE4 Sn376	4.13	82.40	82.6	0.24
SAR03	2022/1/25	5750	50	D5GHzV2-1128-5750	EX3DV4 - SN3925	DAE4 Sn376	3.85	79.10	77	-2.65

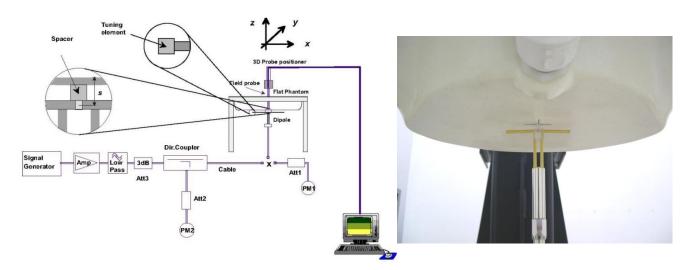


Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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10. WiFi/Bluetooth Output Power (Unit: dBm)

General Note:

For each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure
compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.

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- 2. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6W/kg and SAR peak to location ratio ≤ 0.04, no additional SAR measurements for MIMO.
- 3. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
- 4. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
- 5. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- 6. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band
- 7. 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.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - For all positions/configurations, 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.
- 8. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
- In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
- 10. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
- 11. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

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<2.4GHz WLAN>

	2.4GHz WLAN				Ant 1			Ant 2			Ant 1+2									
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune- Up Limit	Duty Cycle %	Average power (dBm)	Tune- Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %								
		1	2412	18.70	19.00		19.00	19.00			22.00									
		6	2437	18.80	19.00	99.70	19.00	19.00	99.70		22.00									
	802.11b 1Mbps	11	2462	18.90	19.00		18.90	19.00			22.00									
		12	2467			_	15.50			15.50			18.50							
		13	2472				9.00			9.00			12.00							
		1	2412		17.00			17.00			20.00									
		6	2437		18.50			18.50			21.50									
	802.11g 6Mbps	11	2462		17.00			17.00			20.00									
		12	2467		12.00			12.00			15.00									
		13	2472		7.00			7.00			10.00									
		1	2412		16.50			16.50			19.50									
		6	2437		18.00			18.00			21.00									
	802.11n-HT20 MCS0	11	2462		16.50			16.50			19.50									
		12	2467		10.00			10.00			13.00									
		13	2472		5.50			5.50				8.50								
		3	2422		15.00		15.00			18.00										
	802.11n-HT40 MCS0	6	2437		16.00			16.00			19.00									
2.4GHz		9	2452		15.00			15.00			18.00									
WLAN		10	2457								8.	8.50			8.50			11.50		
		11	2462		6.50			6.50		Not Required	9.50	Not Required								
		1	2412	Not Required	16.50 10.00	_						_				16.50		Not required	19.50	
		6	2437			18.00	Not Required	Not Required	18.00			21.00								
	802.11ac-VHT20 MCS0	11	2462							16.50			19.50							
		12	2467						10.00			13.00								
		13	2472		5.50			5.50			8.50									
		3	2422		15.00			15.00			18.00									
		6	2437		16.00			16.00			19.00									
	802.11ac-VHT40 MCS0	9	2452		15.00			15.00			18.00									
		10	2457		8.50			8.50			11.50									
		11	2462		6.50			6.50			9.50									
		1	2412		17.00			17.00			20.00									
		6	2437		18.00			18.00			21.00									
	802.11ax-HE20 MCS0	11	2462		16.50			16.50			19.50									
		12	2467		10.50			10.50			13.50									
		13	2472		6.00			6.00			9.00									
		3	2422		15.00			15.00			18.00									
		6	2437		16.00			16.00			19.00									
	802.11ax-HE40 MCS0	9	2452		15.00			15.00			18.00									
		10	2457		8.50			8.50			11.50									
		11	2462		6.50			6.50			9.50									

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<5GHz WLAN>

5.2GHz WLAN					Ant 1			Ant 2			Ant 1+2	
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		36	5180		15.00			15.00			18.00	
	802.11a 6Mbps	40	5200		15.00			15.00			18.00	
	002.11a divibps	44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
		36	5180		15.00			15.00			18.00	
	802.11n-HT20 MCS0	40	5200		15.00			15.00			18.00	
	002.1111-11120 WC30	44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
	802.11n-HT40 MCS0	38	5190		15.00			15.00			18.00	
	802.1111-11140 WC30	46	5230		15.00		15.00	15.00		18.00		
5.2GHz WLAN		36	5180		15.00			15.00			18.00	
	802.11ac-VHT20 MCS0	40	5200	Not Required	15.00	Not Poquirod	Not Required	15.00	Not Poquired	Not Required	18.00	Not Required
	002.11ac-V11120 WC30	44	5220	Not Kequileu	15.00	Not Kequileu	Not Kequileu	15.00	Not Required	Not Required	18.00	Not Required
		48	5240		15.00			15.00			18.00	
	802.11ac-VHT40 MCS0	38	5190		15.00			15.00			18.00	
	602.11ac-VH140 MC30	46	5230		15.00			15.00			18.00	
	802.11ac-VHT80 MCS0	42	5210		14.00			14.00			17.00	
		36	5180		15.00			15.00			18.00	
	802.11ax-HE20 MCS0	40	5200		15.00			15.00			18.00	
	002.11ax-11L20 WC30	44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
	802.11ax-HE40 MCS0	38	5190	-	15.00			15.00	1		18.00	
	002.11ax-11L40 IVIC30	46	5230		15.00			15.00			18.00	
	802.11ax-HE80 MCS0	42	5210		14.00			14.00			17.00	

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5.3GHz WLAN					Ant 1			Ant 2		Ant 1+2								
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %						
	802.11a 6Mbps	52	5260		15.00			15.00			18.00							
		56	5280		15.00			15.00			18.00							
	602.11a bivibps	60	5300		15.00			15.00			18.00							
		64	5320	Not Required	15.00	Not Beguired	Not Required	15.00	Not Required		18.00							
		52	5260	Not Required	15.00	Not Required	Not Required	15.00	Not Required		18.00							
	802.11n-HT20 MCS0	56	5280		15.00			15.00			18.00							
	602.1111-H120 MC30	60	5300		15.00			15.00			18.00							
		64	5320		15.00			15.00										18.00
	802.11n-HT40 MCS0	54	5270	15.00	15.00	15.00 95.00 14.80 15.00 95.00		18.00										
	802.1111-H140 MCS0	62	5310	15.00	15.00	93.00	14.90	15.00	95.00		18.00							
5.3GHz WLAN		52	5260		15.00	-		15.00		Not Required	18.00							
	802.11ac-VHT20 MCS0	56	5280		15.00			15.00			18.00	Not Required						
	002.11ac-V11120 WC30	60	5300		15.00			15.00			18.00	Not Required						
		64	5320		15.00			15.00			18.00							
	802.11ac-VHT40 MCS0	54	5270		15.00			15.00			18.00							
	802.11ac-V11140 MC30	62	5310		15.00			15.00			18.00							
	802.11ac-VHT80 MCS0	58	5290	Not Required	14.00	Not Required	Not Required	14.00	Not Required		17.00							
		52	5260	Not Required	15.00	Not Required	Not Required	15.00	Not Required		18.00							
	802.11ax-HE20 MCS0	56	5280		15.00			15.00			18.00							
	002.11ax-11L20 WC30	60	5300		15.00			15.00			18.00							
		64	5320		15.00			15.00			18.00							
	802.11ax-HE40 MCS0	54	5270		15.00			15.00			18.00							
	002.11ax-11L40 MC30	62	5310		15.00			15.00)		18.00							
	802.11ax-HE80 MCS0	58	5290		14.00			14.00			17.00							

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5.5GHz WLAN					Ant 1			Ant 2			Ant 1+2		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		100	5500		15.00			15.00			18.00		
		116	5580		15.00			15.00			18.00		
	802.11a 6Mbps	124	5620		15.00	-		15.00			18.00		
		132	5660		15.00			15.00			18.00		
		144 5720		15.00			15.00			18.00			
		100	5500		15.00)	15.00	15.00			18.00	
		116	5580		15.00			15.00			18.00		
	802.11n-HT20 MCS0	124	5620		15.00			15.00			18.00		
		132	5660		15.00			15.00			18.00		
		144	5720		15.00			15.00			18.00		
		102	5510		15.00			15.00			18.00		
		110	5550		15.00			15.00			18.00		
	802.11n-HT40 MCS0	126	5630	Not Required		Not Required	Not Required		Not Required		18.00		
		134	5670		15.00			15.00			18.00		
		142	5710		15.00			15.00			18.00		
		100	5500		15.00			15.00	- - - -		18.00		
	802.11ac-VHT20 MCS0	116	5580		15.00	_		15.00			18.00		
		124	5620		15.00			15.00			18.00		
5.5GHz		132	5660		15.00			15.00			18.00		
WLAN		144	5720		15.00			15.00			18.00		
		102	5510		15.00			15.00	_	Not Required		Not Required	
		110	5550		15.00			15.00			18.00		
	802.11ac-VHT40 MCS0	126	5630		15.00			15.00			18.00		
		134	5670		15.00			15.00			18.00		
		142	5710	44.00	15.00		44.00	15.00			18.00		
	000 44 \// IT00 M000	106	5530	14.20	14.50	00.50	14.30	14.50	00.50		17.50		
	802.11ac-VHT80 MCS0	122	5610	14.60	15.00	90.50	14.90	15.00	90.50		18.00		
		138 100	5690 5500	15.00	15.00 15.00		14.80	15.00			18.00		
		116	5580		15.00			15.00 15.00			18.00		
	802.11ax-HE20 MCS0	124	5620		15.00			15.00			18.00		
	002.1 Tax-11L20 IVIC30	132	5660		15.00			15.00			18.00		
		144	5720		15.00			15.00			18.00		
		102	5510		15.00			15.00			18.00		
		110		Not Required		Not Required	Not Required		Not Required		18.00		
	802.11ax-HE40 MCS0	126	5630	o. r.oquiiou	15.00	ot rtoquireu	ot rtoquileu	15.00			18.00		
	SSELTIAN TIETO WICOU	134	5670		15.00			15.00			18.00		
		142	5710		15.00			15.00			18.00		
		106	5530		14.50			14.50			17.50		
		122	5610		15.00			15.00			18.00		
	200000	138	5690		15.00			15.00			18.00		
		100	0000		10.00			10.00			10.00		

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5.8GHz WLAN Ant 1 Ant 2 Ant 1+2 Average power (dBm) Duty Cycle % Average power (dBm) Average power (dBm) Tune-Up Duty Cycle % Frequency (MHz) Tune-Up Tune-Up **Duty Cycle** Mode Channel Limit Limit Limit 149 5745 15.00 15.00 18.00 802.11a 6Mbps 157 5785 15.00 15.00 18.00 165 5825 15.00 15.00 18.00 149 5745 15.00 15.00 18.00 802.11n-HT20 MCS0 15.00 157 5785 15.00 18.00 165 5825 15.00 15.00 18.00 15.00 Not Required Not Required 15.00 Not Required 151 5755 Not Required 18.00 802.11n-HT40 MCS0 159 5795 15.00 15.00 18.00 5.8GHz WLAN 15.00 15.00 18.00 802.11ac-VHT20 MCS0 157 5785 15.00 15.00 18.00 Not Required Not Required 15.00 18.00 165 5825 15.00 151 5755 15.00 15.00 18.00 802.11ac-VHT40 MCS0 159 5795 15.00 15.00 18.00 802.11ac-VHT80 MCS0 155 5775 14.90 15.00 90.50 14.80 15.00 90.50 18.00 149 5745 15.00 15.00 18.00 802.11ax-HE20 MCS0 157 5785 15.00 15.00 18.00 165 5825 15.00 15.00 18.00 Not Required Not Required Not Required Not Required 151 5755 15.00 15.00 18.00 802.11ax-HE40 MCS0 159 5795 15.00 15.00 18.00 802.11ax-HE80 MCS0 155 5775 15.00 15.00 18.00

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<2.4GHz Bluetooth>

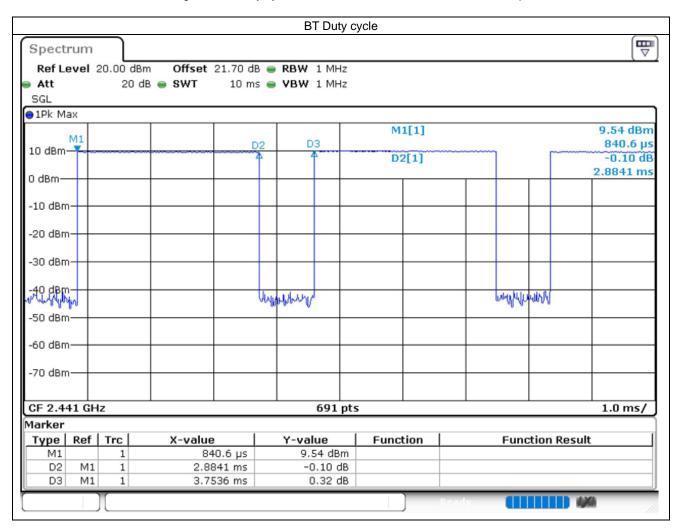
Mode	Channel	Frequency	Average power (dBm)						
Mode	Charmer	(MHz)	1Mbps	2Mbps	3Mbps				
	CH 00	2402	10.40						
BR / EDR	CH 39	2441	10.20	Not Required	Not Required				
	CH 78	2480	9.90						
	Tune-up Limit		11.50	8.50	8.50				

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I	Mode	Channel	Frequency	Average power (dBm)						
ı	Mode	Channel	(MHz) 2402 2440	1Mbps	2Mbps					
I		CH 00	2402							
ı	LE	CH 19	2440	Not Required	Not Required					
ı		CH 39	2480							
I		Tune-up Limit		11.50	11.50					

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.83% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.



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11. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.

WLAN Note:

- 1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required 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.
- 2. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
- 3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- For all positions / configurations, 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
- 5. For WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
- 6. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6W/kg and SAR peak to location ratio ≤ 0.04, no additional SAR measurements for MIMO.
- 7. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
- 8. Refer to tune-up procedure the channel 12 and 13 power is lower than others channel, therefore the SAR consideration is not necessary

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11.1 **Body SAR**

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Antenna	Ch.		Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cyclo	Duty Cycle Scaling Factor	Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 1	11	2462	18.90	19.00	1.023	99.7	1.003	-0.03	0.807	0.828
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 1	1	2412	18.70	19.00	1.072	99.7	1.003	0.07	0.718	0.772
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 1	6	2437	18.80	19.00	1.047	99.7	1.003	-0.13	0.767	0.806
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 2	Ant 1	11	2462	18.90	19.00	1.023	99.7	1.003	-0.09	0.613	0.629
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 3	Ant 1	11	2462	18.90	19.00	1.023	99.7	1.003	-0.06	0.567	0.582
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 4	Ant 1	11	2462	18.90	19.00	1.023	99.7	1.003	0.02	0.589	0.605
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 2	1	2412	19.00	19.00	1.000	99.7	1.003	0.15	0.512	0.514
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 2	6	2437	19.00	19.00	1.000	99.7	1.003	-0.11	0.495	0.496
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 2	11	2462	18.90	19.00	1.023	99.7	1.003	-0.19	0.504	0.517
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 2	Ant 2	11	2462	18.90	19.00	1.023	99.7	1.003	-0.19	0.449	0.461
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 3	Ant 2	11	2462	18.90	19.00	1.023	99.7	1.003	0.04	0.438	0.450
	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 4	Ant 2	11	2462	18.90	19.00	1.023	99.7	1.003	0.05	0.458	0.470

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SPORTON LAB. FCC SAR TEST REPORT

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 1	54	5270	15.00	15.00	1.000	95	1.053	-0.15	0.531	0.559
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 1	62	5310	15.00	15.00	1.000	95	1.053	0.14	0.526	0.554
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 2	Ant 1	54	5270	15.00	15.00	1.000	95	1.053	0.04	0.268	0.282
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 1	54	5270	15.00	15.00	1.000	95	1.053	0.03	0.522	0.550
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 1	54	5270	15.00	15.00	1.000	95	1.053	-0.08	0.452	0.476
02	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 2	62	5310	14.90	15.00	1.023	95	1.053	-0.02	0.571	0.615
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 2	54	5270	14.80	15.00	1.047	95	1.053	-0.19	0.461	0.508
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 2	Ant 2	62	5310	14.90	15.00	1.023	95	1.053	-0.05	0.303	0.326
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 2	62	5310	14.90	15.00	1.023	95	1.053	0.03	0.552	0.595
	WLAN5GHz	802.11n-HT40 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 2	62	5310	14.90	15.00	1.023	95	1.053	0.06	0.484	0.522
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 1	138	5690	15.00	15.00	1.000	90.5	1.105	0.04	0.191	0.211
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 1	106	5530	14.20	14.50	1.072	90.5	1.105	-0.01	0.145	0.172
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 1	122	5610	14.60	15.00	1.096	90.5	1.105	0.09	0.133	0.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 2	Ant 1	138	5690	15.00	15.00	1.000	90.5	1.105	-0.04	0.174	0.192
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 1	138	5690	15.00	15.00	1.000	90.5	1.105	0.09	0.181	0.200
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 1	138	5690	15.00	15.00	1.000	90.5	1.105	0.14	0.212	0.234
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 1	106	5530	14.20	14.50	1.072	90.5	1.105	0.09	0.178	0.211
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 1	122	5610	14.60	15.00	1.096	90.5	1.105	-0.12	0.163	0.198
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 2	122	5610	14.90	15.00	1.023	90.5	1.105	0.05	0.207	0.234
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 2	106	5530	14.30	14.50	1.047	90.5	1.105	-0.19	0.206	0.238
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 2	138	5690	14.80	15.00	1.047	90.5	1.105	0.11	0.243	0.281
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 2	Ant 2	138	5690	14.80	15.00	1.047	90.5	1.105	0.02	0.183	0.212
03	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 2	138	5690	14.80	15.00	1.047	90.5	1.105	0.12	0.299	0.346
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 2	106	5530	14.30	14.50	1.047	90.5	1.105	0.07	0.253	0.293
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 2	122	5610	14.90	15.00	1.023	90.5	1.105	-0.04	0.247	0.279
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 2	138	5690	14.80	15.00	1.047	90.5	1.105	0.09	0.234	0.271
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 1	155	5775	14.90	15.00	1.023	90.5	1.105	0.12	0.135	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 2	Ant 1	155	5775	14.90	15.00	1.023	90.5	1.105	0.11	0.154	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 1	155	5775	14.90	15.00	1.023	90.5	1.105	0.03	0.151	0.171
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 1	155	5775	14.90	15.00	1.023	90.5	1.105	-0.14	0.145	0.164
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 1	Ant 2	155	5775	14.80	15.00	1.047	90.5	1.105	-0.19	0.314	0.363
04	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 2	Ant 2	155	5775	14.80	15.00	1.047	90.5	1.105	0.1	0.350	0.405
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 3	Ant 2	155	5775	14.80	15.00	1.047	90.5	1.105	0.18	0.330	0.382
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom of Laptop	0mm	Sample 4	Ant 2	155	5775	14.80	15.00	1.047	90.5	1.105	-0.08	0.344	0.398

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 2	0	2402	10.40	11.50	1.288	76.83	1.084	0.15	0.050	0.070
	Bluetooth	1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 2	39	2441	10.20	11.50	1.349	76.83	1.084	0.1	0.048	0.070
05	Bluetooth	1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 2	78	2480	9.90	11.50	1.445	76.83	1.084	-0.1	0.049	0.077
	Bluetooth	1Mbps	Bottom of Laptop	0mm	Sample 2	Ant 2	78	2480	9.90	11.50	1.445	76.83	1.084	-0.11	0.040	0.063
	Bluetooth	1Mbps	Bottom of Laptop	0mm	Sample 3	Ant 2	78	2480	9.90	11.50	1.445	76.83	1.084	-0.14	0.047	0.074
	Bluetooth	1Mbps	Bottom of Laptop	0mm	Sample 4	Ant 2	78	2480	9.90	11.50	1.445	76.83	1.084	0.06	0.043	0.067

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11.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Sample	Antenna	Ch.		Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 1	11	2462	18.90	19.00	1.023	99.7	1.003	-0.03	0.807	-	0.828
2nd	WLAN2.4GHz	802.11b 1Mbps	Bottom of Laptop	0mm	Sample 1	Ant 1	11	2462	18.90	19.00	1.023	99.7	1.003	0.01	0.784	1.03	0.805

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General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated measured SAR.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

12. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	2.4GHz WLAN Ant 1 + 2.4GHz WLAN Ant 2 + Bluetooth Ant 2	Yes
2.	5GHz WLAN Ant 1 + 5GHz WLAN Ant 2 + Bluetooth Ant 2	Yes

General Note:

- The Scaled SAR summation is calculated based on the same configuration and test position.
- 2. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)² + (y1-y2)² + (z1-z2)²], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

12.1 Body Exposure Conditions

	1	1 2		4	5			
E 5 %	WLAN2.4GHz	WLAN2.4GHz	WLAN5GHz	WLAN5GHz	Bluetooth	1+2+5	3+4+5	
Exposure Position	Ant 1	Ant 2	Ant 1	Ant 2	Ant 2	Summed	Summed	
	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR (W/kg)	1g SAR (W/kg)	
	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)			
Bottom of Laptop at 0mm	0.828	0.517	0.559	0.615	0.077	1.422	1.251	

Test Engineer: EN Liu and Hank Chiang

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13. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\le 30\%$, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

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Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

14. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [8] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [9] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.

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