

TEST REPORT

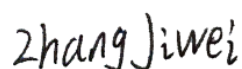
Applicant: Realtek Semiconductor Corp.
Address: No. 2, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan
Equipment Type: 11ax RTL8852CE Combo module
Model Name: RTL8852CE
Brand Name: N/A
FCC ID: TX2-RTL8852CE
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Maximum SAR: Body 2.4GHz(1 g): 1.18 W/kg
Body 5GHz(1 g): 1.01 W/kg
Body 6GHz(1 g): 1.17 W/kg
Limbs 2.4GHz(10 g): 1.14 W/kg
Limbs 5GHz(10 g): 0.83 W/kg
Limbs 6GHz(10 g): 0.54 W/kg
Sample Arrival Date: Nov. 07, 2023
Test Date: Dec. 01, 2023 - Dec. 05, 2023
Date of Issue: Dec. 22, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Jiwei**Checked by:** Xu Rui**Approved by:** Tolan Tu

(Testing Director)



Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 22, 2023</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realtek Semiconductor Corp.
Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

2.2 Manufacturer Information

Manufacturer	Realtek Semiconductor Corp.
Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	11ax RTL8852CE Combo module
Model Name Under Test	RTL8852CE
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.3.1 Host Information:

Product Description	Notebook Computer
Model Name	IdeaPad 5 2-in-1 14AHP9
Brand Name	Lenovo

2.3.2 Antenna Information:

Antenna Port	Model Name	Antenna Manufacturer	Antenna Type	Antenna Gain (dBi)								
				2.4 GHz	5.15 - 5.25 GHz	5.25 - 5.35 GHz	5.47 - 5.725 GHz	5.725 - 5.895 GHz	5.925 - 6.425 GHz	6.425 - 6.525 GHz	6.525 - 6.875 GHz	6.875 - 7.125 GHz
Main Antenna	AYP6Y-100467	AWAN	PIFA	1.69	3.15	2.42	2.38	3.04	2.76	3.88	3.16	3.27
Auxiliary Antenna	AYP6Y-100468		PIFA	2.22	2.68	2.16	3.21	3.66	3.95	3.46	3.25	3.45
Main Antenna	3.N201.0261	South Star	PIFA	1.89	2.42	2.48	2.96	3.17	2.88	3.17	2.79	2.28
Auxiliary Antenna	3.N201.0262		PIFA	2.29	2.37	2.61	2.22	3.08	3.18	2.62	2.89	2.18

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40 and 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160) and 802.11ax(HE20/40/80/160), U-NII-1/2A/2C/3/4 6G WIFI 802.11ax(HE20/40/80/160), U-NII-5/6/7/8
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WLAN, 5G WLAN, 6G WLAN, Bluetooth	
Frequency Range	802.11b/g	2412 MHz ~ 2472 MHz
	VHT20/VHT40	2412 MHz ~ 2472 MHz
	802.11ax(HE20/HE40)	2412 MHz ~ 2472 MHz
	802.11a	5150 MHz ~ 5250 MHz
		5250 MHz ~ 5350 MHz
		5470 MHz ~ 5725 MHz
		5725 MHz ~ 5850 MHz
		5850 MHz ~ 5895 MHz
	802.11n(HT20/HT40)	5150 MHz ~ 5250 MHz
		5250 MHz ~ 5350 MHz
		5470 MHz ~ 5725 MHz
		5725 MHz ~ 5850 MHz
		5850 MHz ~ 5895 MHz
	802.11ac(VHT20/VHT40/VHT80)	5150 MHz ~ 5250 MHz
		5250 MHz ~ 5350 MHz
		5470 MHz ~ 5725 MHz
		5725 MHz ~ 5850 MHz
		5850 MHz ~ 5895 MHz
	802.11ax(HE20/HE40/HE80)	5150 MHz ~ 5250 MHz
		5250 MHz ~ 5350 MHz
		5470 MHz ~ 5725 MHz
		5725 MHz ~ 5850 MHz
		5850 MHz ~ 5895 MHz
	802.11ac(VHT160)/ax(HE160)	5150 MHz ~ 5250 MHz
		5470 MHz ~ 5725 MHz
		5850 MHz ~ 5895 MHz
	802.11ax(HE20/HE40/HE80/HE160)	5925 MHz ~ 6425 MHz
		6425 MHz ~ 6525 MHz
		6525 MHz ~ 6875 MHz
		6875 MHz ~ 7125 MHz
	Bluetooth	2402 MHz ~ 2480 MHz
Antenna Type	WLAN: PIFA Antenna Bluetooth: PIFA Antenna	
Hotspot Function	N/A	

Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
4	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
5	KDB 865664 D02 v01r02	RF Exposure Reporting
6	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters
7	KDB 616217 D04v01r02	SAR for laptop and tablets
8	IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. 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.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. 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. This 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.

3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

Equipment Class	Band	Antenna	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)	
			Body (0mm)	Body (0mm)	
DTS	2.4G WLAN	SISO-Aux.	1.07	1.18	
	2.4G WLAN	SISO-Main	1.18		
U-NII-2A	5.3G WLAN	SISO-Aux.	0.63		
	5.3G WLAN	SISO-Main	0.69		
U-NII-2C	5.6G WLAN	SISO-Aux.	1.01		
	5.6G WLAN	SISO-Main	0.70		
U-NII-3	5.8G WLAN	SISO-Aux.	0.88		
	5.8G WLAN	SISO-Main	1.00		
U-NII-4	5.9G WLAN	SISO-Aux.	0.83		
	5.9G WLAN	SISO-Main	0.88		
U-NII-5/6/7/8	6G WLAN	SISO-Aux.	1.17		
	6G WLAN	SISO-Main	1.17		
DSSS	Bluetooth	Aux.	0.40		
Limit (W/kg)			1.60		
Verdict			Pass		

3.3.2 Highest SAR (10 g Value)

Equipment Class	Band	Antenna	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)	
			Limbs (0mm)	Limbs (0mm)	
DTS	2.4G WLAN	SISO-Aux.	1.11	1.14	
	2.4G WLAN	SISO-Main	1.14		
U-NII-2A	5.3G WLAN	SISO-Aux.	0.49		
	5.3G WLAN	SISO-Main	0.62		
U-NII-2C	5.6G WLAN	SISO-Aux.	0.59		
	5.6G WLAN	SISO-Main	0.51		
U-NII-3	5.8G WLAN	SISO-Aux.	0.68		
	5.8G WLAN	SISO-Main	0.81		
U-NII-4	5.9G WLAN	SISO-Aux.	0.80		
	5.9G WLAN	SISO-Main	0.83		
U-NII-5/6/7/8	6G WLAN	SISO-Aux.	0.54		
	6G WLAN	SISO-Main	0.44		
DSSS	Bluetooth	Aux.	0.35		
Limit (W/kg)			4.00		
Verdict			Pass		

3.3.3 Highest Simultaneous Transmission SAR Values (1 g Value)

Equipment Class	Maximum Report SAR (W/kg)	SPLSR
	Body(0mm)	
	1g SAR	
DTS	2.35	0.02
NII	2.35	0.02
DSSS	1.58	/
Limit (W/Kg)	1.6	0.04
Verdict	Pass	Pass

Note: The simultaneous transmission SAR detail please refer to section 12.

3.3.4 Highest Simultaneous Transmission SAR Values (10 g Value)

Equipment Class	Maximum Report SAR (W/kg)	SPLSR
	Limbs (0mm)	
	1g SAR	
DTS	2.25	/
NII	1.94	/
DSSS	1.49	/
Limit (W/Kg)	4.00	/
Verdict	Pass	Pass

Note: The simultaneous transmission SAR detail please refer to section 12.

3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.18 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

The maximum 10 g SAR for the EUT in this report is 1.14 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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.

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 (ρ). 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 measurement can be related to the electrical field in the tissue by

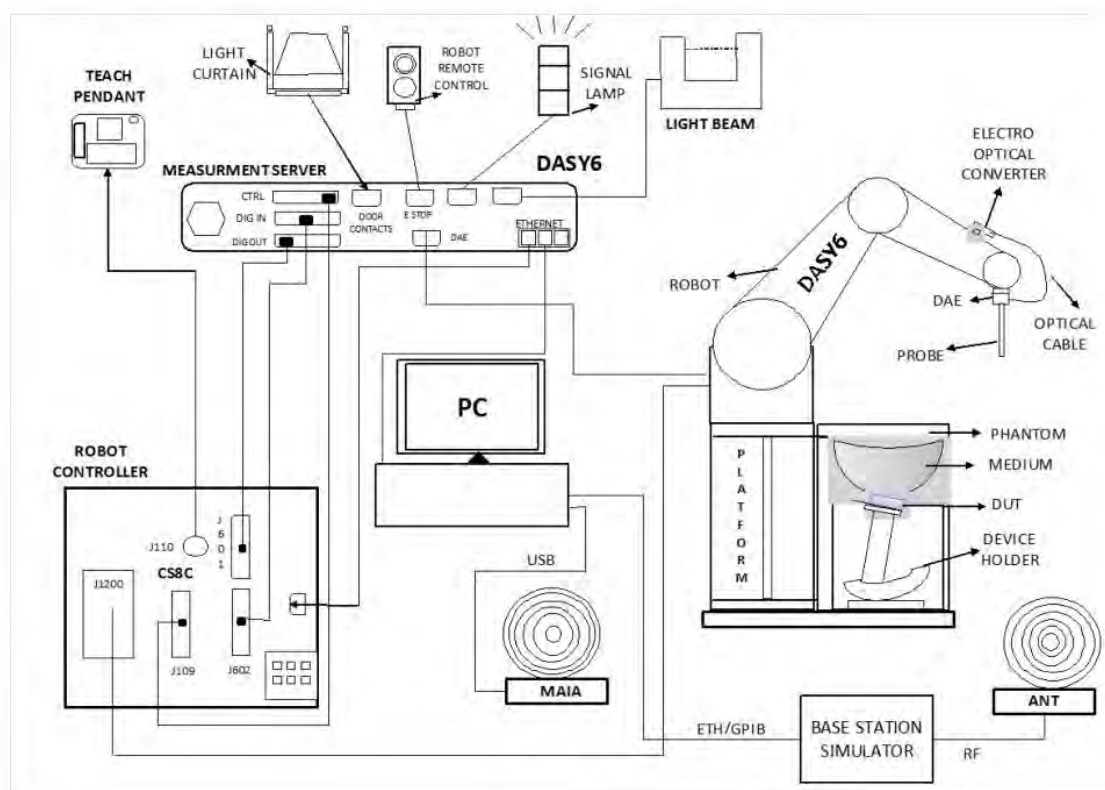
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. 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.
3. A data acquisition electronic (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.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4- SN: 7607 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

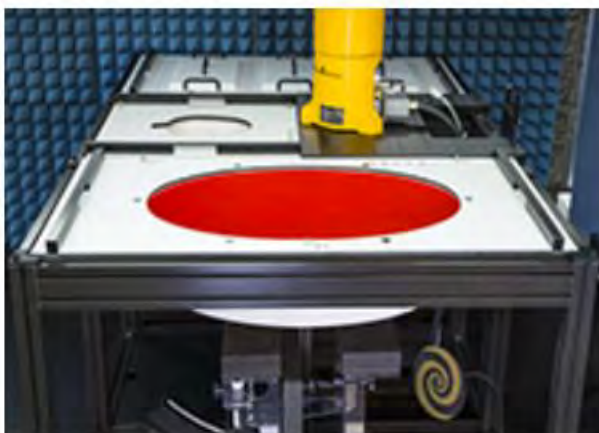
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200MΩ
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

4.2.5 Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI V8.0 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI V8.0 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.



· Flat phantom

Photo of Phantom SN2159



Serial Number	Shell Thickness (mm)	Major ellipse axis (mm)	Minor axis(mm)
SN 2159 ELI V8.0	2.0 ± 0.2	600	400

4.2.6 Device Holder

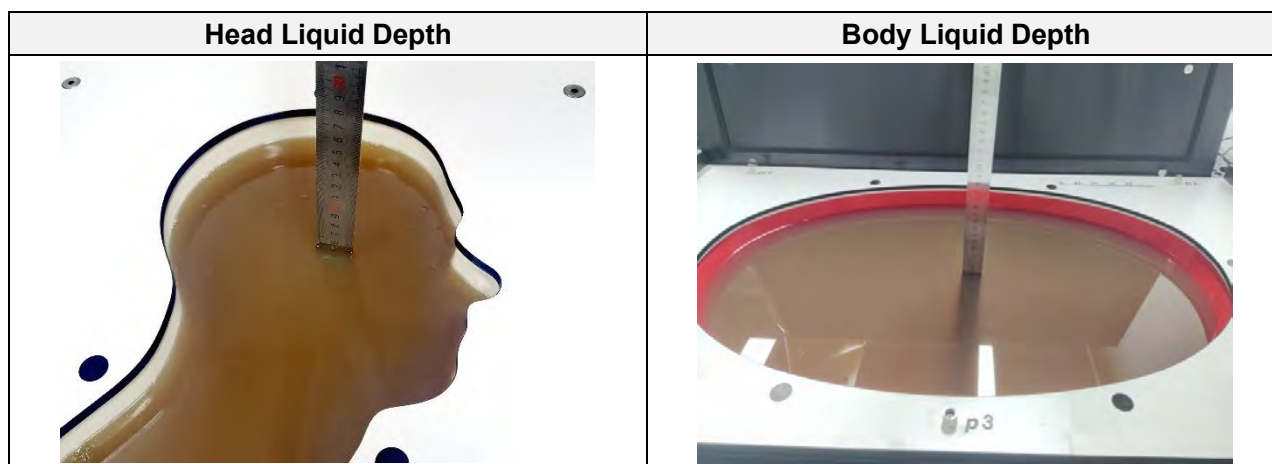
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

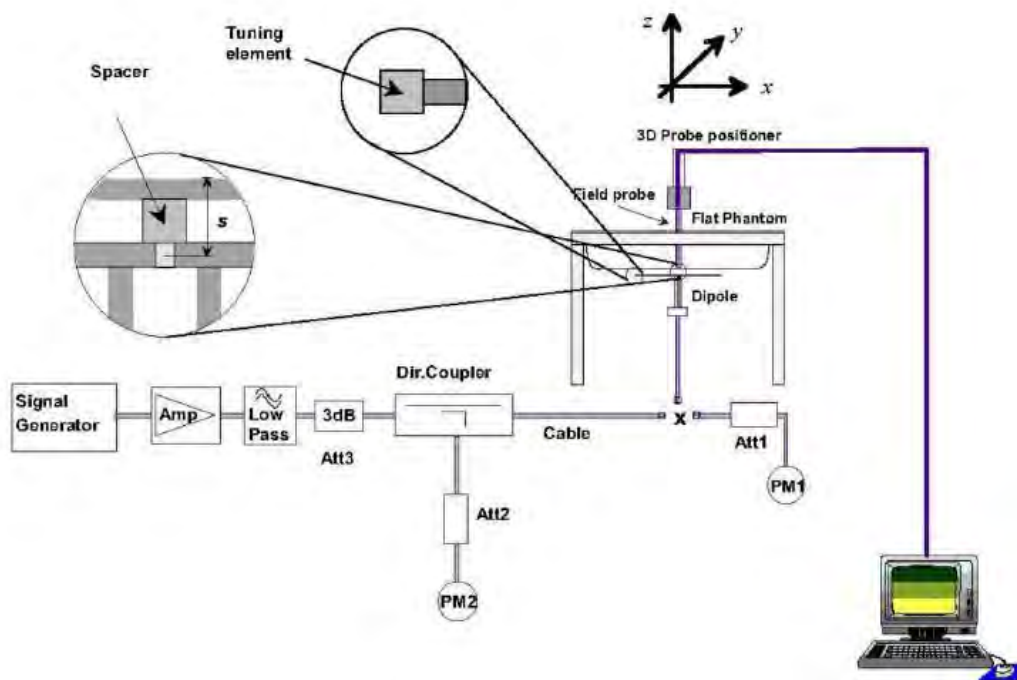
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

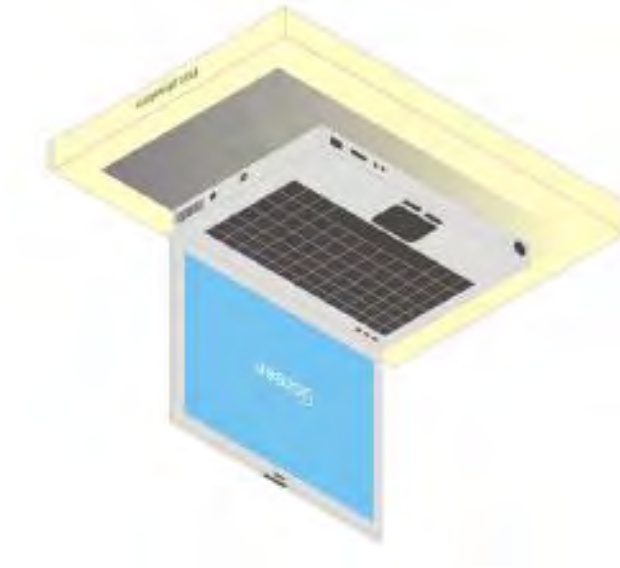
In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

6.1 Laptop Exposure Condition

This DUT should consider one position which is bottom of laptop touching with phantom 0 mm air gap and the screen portion of the device shall be an open position at a 90° angle.



6.2 Tablet Exposure Condition

This DUT was tested in two different positions. They are back side and top edge in these positions, the surface of DUT is touching with phantom 0mm.

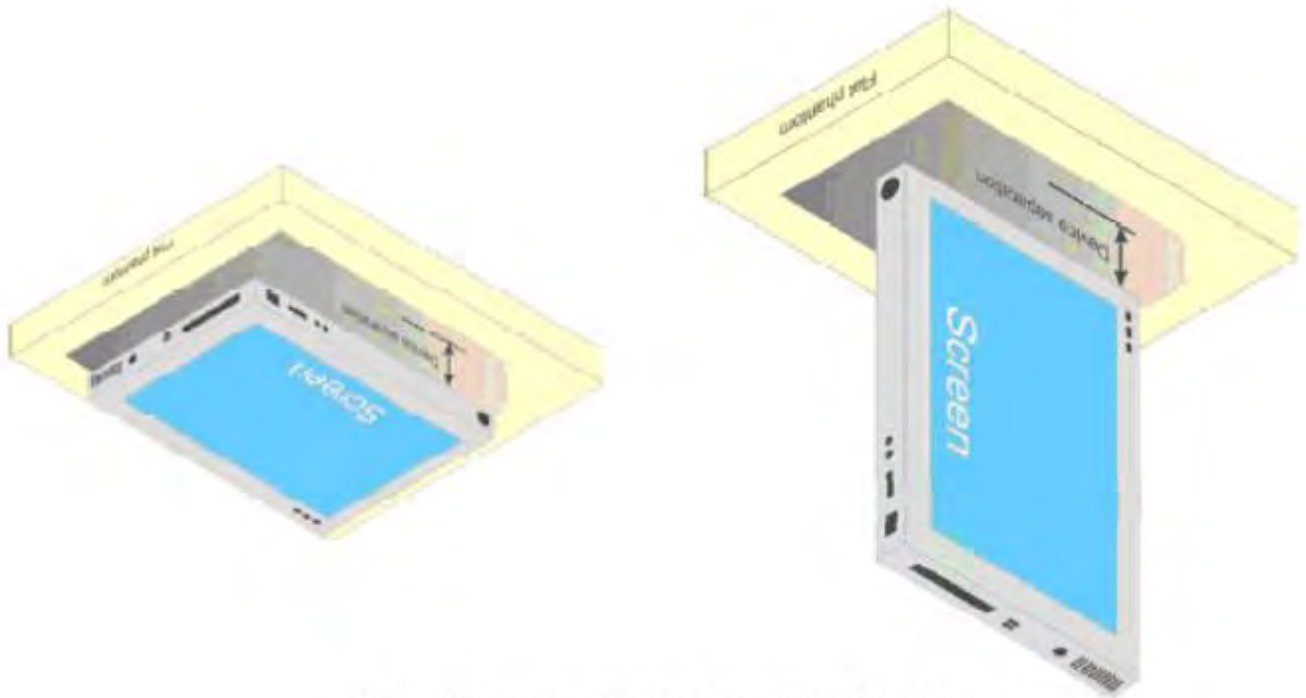
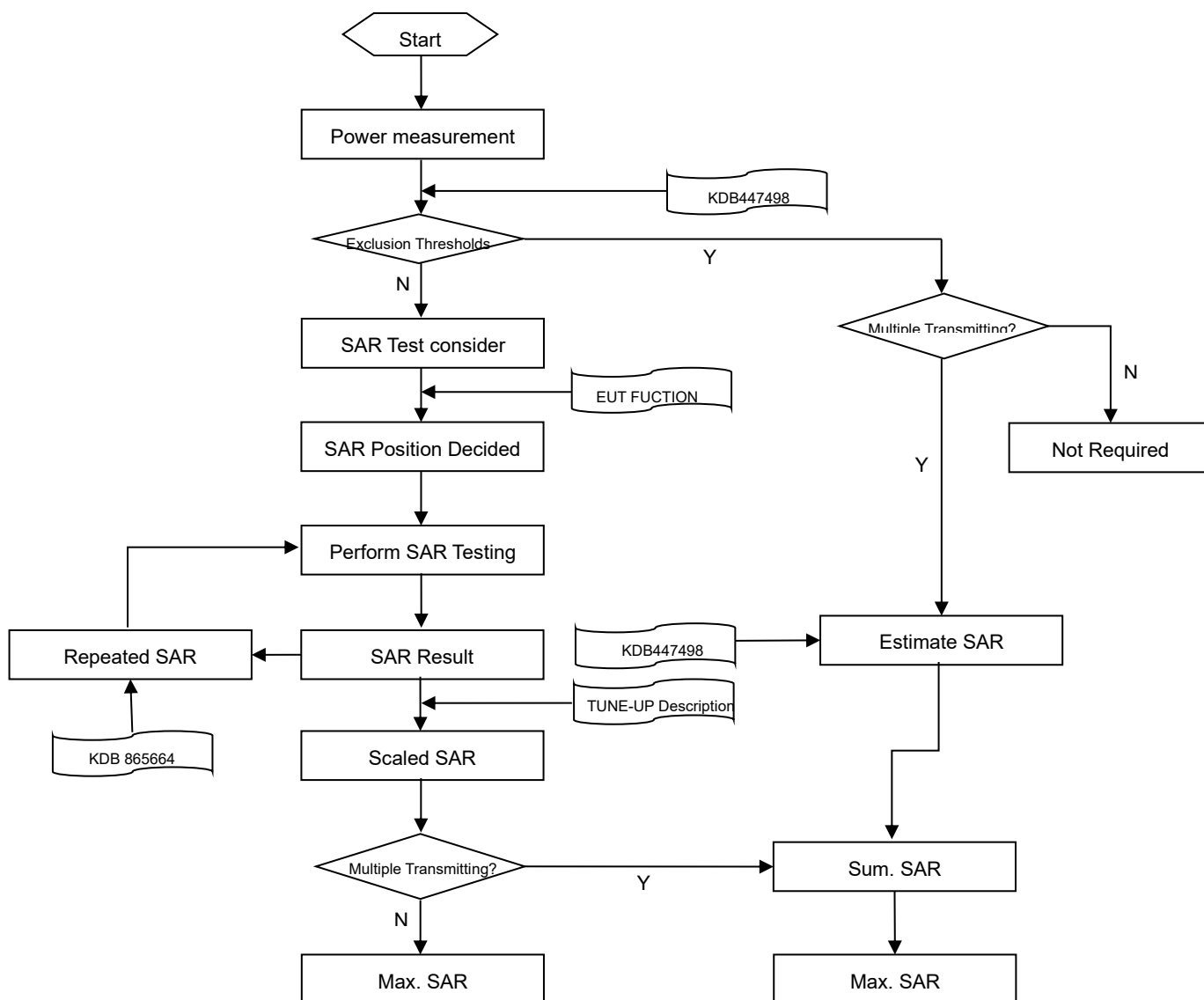


Fig Illustration for Lap-touching Position

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension 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 spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

- δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- * When zoom scan is required and the reported 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 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 Interim Procedures for WLAN 6E

Interim procedures for FCC radio frequency (RF) exposure evaluations of U-NII 6-7 GHz band portable devices have been made available during the TCB workshop in April 2021. The procedure is summarized below:

- Evaluate SAR / APD with DASY6 Module SAR V16.0 or higher. The configurations to be tested are defined in the relevant Knowledge Database (KDB). The psSAR and absorbed psPD are reported.
- For the configuration with the highest SAR, evaluate the incident power density with DASY6 Module mmWave V2.4.2 or higher. The incident psPD must be adjusted per amount that the measurement uncertainty exceeds 30% before it is included in the test report.

8 CONDUCTED RF OUTPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI (SISO-Main Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.17	15.50	Yes
		6	2437	15.40	15.50	Yes
		10	2457	15.16	15.50	No
		11	2462	15.14	15.50	Yes
		12	2467	14.76	15.50	No
		13	2472	12.00	13.00	No
	802.11g	1	2412	14.91	15.50	No
		2	2417	15.05	15.50	No
		6	2437	15.24	15.50	No
		10	2457	15.41	15.50	No
		11	2462	15.13	15.50	No
		12	2467	15.06	15.50	No
		13	2472	15.31	15.50	No
	VHT20	1	2412	15.06	15.50	No
		2	2417	15.44	15.50	No
		6	2437	15.09	15.50	No
		10	2457	15.01	15.50	No
		11	2462	15.28	15.50	No
		12	2467	15.46	15.50	No
		13	2472	10.32	11.00	No
	VHT40	3	2422	15.33	15.50	No
		6	2437	14.77	15.50	No
		9	2452	15.27	15.50	No
		10	2457	15.02	15.50	No
		11	2462	14.98	15.50	No
	802.11ax(HE20) (SU)	1	2412	15.37	15.50	No
		2	2417	15.28	15.50	No
		6	2437	15.36	15.50	No
		10	2457	15.30	15.50	No
		11	2462	15.15	15.50	No
		12	2467	15.08	15.50	No
		13	2472	10.49	11.00	No
	802.11ax(HE40)	3	2422	15.17	15.50	No

	(SU)	6	2437	15.35	15.50	No
		9	2452	15.30	15.50	No
		10	2457	15.09	15.50	No
		11	2462	14.78	15.50	No
	802.11ax(HE20) (RU26)	1	2412	15.38	15.50	No
		6	2437	14.99	15.50	No
		11	2462	12.39	13.00	No
		12	2467	8.02	9.00	No
		13	2472	-3.62	-3.00	No
	802.11ax(HE20) (RU52)	1	2412	15.11	15.50	No
		6	2437	15.16	15.50	No
		11	2462	14.64	15.50	No
		12	2467	10.52	11.00	No
		13	2472	2.20	3.00	No
	802.11ax(HE20) (RU106)	1	2412	15.06	15.50	No
		6	2437	15.13	15.50	No
		11	2462	14.77	15.50	No
		12	2467	13.42	14.00	No
		13	2472	5.42	6.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 0.732 * (35.48mW/35.48mW) = 0.732 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.2 2.4G WIFI (SISO-Aux. Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.74	16.00	Yes
		6	2437	15.62	16.00	Yes
		10	2457	15.78	16.00	No
		11	2462	15.76	16.00	Yes
		12	2467	15.69	16.00	No
		13	2472	12.61	13.00	No
	802.11g	1	2412	15.55	16.00	No
		2	2417	15.59	16.00	No
		6	2437	15.76	16.00	No
		10	2457	15.75	16.00	No
		11	2462	15.61	16.00	No
		12	2467	15.87	16.00	No
		13	2472	15.81	16.00	No
	VHT20	1	2412	15.42	16.00	No
		2	2417	15.58	16.00	No
		6	2437	15.59	16.00	No
		10	2457	15.52	16.00	No
		11	2462	15.44	16.00	No
		12	2467	15.93	16.00	No
		13	2472	10.11	11.00	No
	VHT40	3	2422	15.43	16.00	No
		6	2437	15.38	16.00	No
		9	2452	15.63	16.00	No
		10	2457	15.39	16.00	No
		11	2462	14.80	16.00	No
	802.11ax(HE20) (SU)	1	2412	15.45	16.00	No
		2	2417	15.08	16.00	No
		6	2437	15.35	16.00	No
		10	2457	15.56	16.00	No
		11	2462	15.29	16.00	No
		12	2467	15.67	16.00	No
		13	2472	10.11	11.00	No
	802.11ax(HE40) (SU)	3	2422	15.50	16.00	No
		6	2437	15.33	16.00	No
		9	2452	15.80	16.00	No
		10	2457	15.97	16.00	No

	802.11ax(HE20) (RU26)	11	2462	15.27	16.00	No
		1	2412	15.36	16.00	No
		6	2437	15.86	16.00	No
		11	2462	12.71	13.00	No
		12	2467	8.31	9.00	No
		13	2472	-3.35	-3.00	No
	802.11ax(HE20) (RU52)	1	2412	15.69	16.00	No
		6	2437	15.18	16.00	No
		11	2462	15.02	15.50	No
		12	2467	10.64	11.00	No
		13	2472	2.32	3.00	No
	802.11ax(HE20) (RU106)	1	2412	15.59	16.00	No
		6	2437	15.25	16.00	No
		11	2462	15.89	16.00	No
		12	2467	13.57	14.00	No
		13	2472	5.45	6.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 0.546 * (39.81mW/39.81mW) = 0.546 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.3 2.4G WIFI (MIMO-Main Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.15	15.50	No
		6	2437	15.12	15.50	No
		10	2457	15.33	15.50	No
		11	2462	15.07	15.50	No
		12	2467	11.78	13.00	No
		13	2472	5.36	6.00	No
	802.11g	1	2412	14.90	15.50	No
		2	2417	15.07	15.50	No
		6	2437	15.29	15.50	No
		10	2457	15.22	15.50	No
		11	2462	15.03	15.50	No
		12	2467	15.09	15.50	No
		13	2472	10.38	11.00	No
	VHT20	1	2412	15.23	15.50	No
		2	2417	15.14	15.50	No
		6	2437	14.83	15.50	No
		10	2457	15.05	15.50	No
		11	2462	15.18	15.50	No
		12	2467	14.93	15.50	No
		13	2472	5.18	6.00	No
	VHT40	3	2422	15.45	15.50	No
		6	2437	15.30	15.50	No
		9	2452	14.06	15.50	No
		10	2457	14.01	15.50	No
		11	2462	12.34	13.00	No
	802.11ax(HE20) (SU)	1	2412	15.11	15.50	No
		2	2417	14.96	15.50	No
		6	2437	15.21	15.50	No
		10	2457	15.30	15.50	No
		11	2462	14.79	15.50	No
		12	2467	14.96	15.50	No
		13	2472	5.01	6.00	No
	802.11ax(HE40) (SU)	3	2422	15.16	15.50	No
		6	2437	14.79	15.50	No
		9	2452	14.08	15.50	No
		10	2457	13.84	15.00	No

	802.11ax(HE20) (RU26)	11	2462	12.39	13.00	No
		1	2412	14.92	15.50	No
		6	2437	14.98	15.50	No
		11	2462	11.69	13.00	No
		12	2467	7.01	7.50	No
		13	2472	-6.44	-5.00	No
	802.11ax(HE20) (RU52)	1	2412	15.04	15.50	No
		6	2437	15.05	15.50	No
		11	2462	13.40	14.00	No
		12	2467	8.50	9.50	No
		13	2472	-0.33	0.50	No
	802.11ax(HE20) (RU106)	1	2412	14.88	15.50	No
		6	2437	15.39	15.50	No
		11	2462	15.17	15.50	No
		12	2467	12.62	13.50	No
		13	2472	2.69	4.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.4 2.4G WIFI (MIMO-Aux. Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.18	16.00	No
		6	2437	15.10	16.00	No
		10	2457	15.29	16.00	No
		11	2462	15.08	16.00	No
		12	2467	11.73	13.00	No
		13	2472	5.39	6.00	No
	802.11g	1	2412	14.88	16.00	No
		2	2417	15.13	16.00	No
		6	2437	15.25	16.00	No
		10	2457	15.22	16.00	No
		11	2462	15.08	16.00	No
		12	2467	15.07	16.00	No
		13	2472	10.33	11.00	No
	VHT20	1	2412	15.25	16.00	No
		2	2417	15.09	16.00	No
		6	2437	14.80	16.00	No
		10	2457	15.10	16.00	No
		11	2462	15.13	16.00	No
		12	2467	14.88	16.00	No
		13	2472	5.18	6.00	No
	VHT40	3	2422	15.49	16.00	No
		6	2437	15.27	16.00	No
		9	2452	14.08	16.00	No
		10	2457	14.25	16.00	No
		11	2462	12.39	13.00	No
	802.11ax(HE20) (SU)	1	2412	15.15	16.00	No
		2	2417	14.99	16.00	No
		6	2437	15.17	16.00	No
		10	2457	15.31	16.00	No
		11	2462	14.81	16.00	No
		12	2467	14.98	16.00	No
		13	2472	5.06	6.00	No
	802.11ax(HE40) (SU)	3	2422	15.22	16.00	No
		6	2437	14.83	16.00	No
		9	2452	14.06	16.00	No
		10	2457	13.84	15.00	No

	802.11ax(HE20) (RU26)	11	2462	12.38	13.00	No
		1	2412	14.91	16.00	No
		6	2437	14.96	16.00	No
		11	2462	11.75	13.00	No
		12	2467	6.99	7.50	No
		13	2472	-6.41	-5.00	No
	802.11ax(HE20) (RU52)	1	2412	15.02	16.00	No
		6	2437	15.01	16.00	No
		11	2462	13.35	14.00	No
		12	2467	8.53	9.50	No
		13	2472	-0.30	0.50	No
	802.11ax(HE20) (RU106)	1	2412	14.93	16.00	No
		6	2437	15.34	16.00	No
		11	2462	15.20	16.00	No
		12	2467	12.66	13.50	No
		13	2472	2.74	4.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.5 5G WIFI (SISO-Main Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.51	15.00	No
		40	5200	14.57	15.00	No
		48	5240	14.65	15.00	No
	802.11n(HT20)	36	5180	14.32	15.00	No
		40	5200	14.59	15.00	No
		48	5240	14.65	15.00	No
	802.11n(HT40)	38	5190	14.93	15.00	No
		46	5230	14.23	15.00	No
	802.11ac(VHT20)	36	5180	14.93	15.00	No
		40	5200	14.18	15.00	No
		48	5240	14.33	15.00	No
	802.11ac(VHT40)	38	5190	14.75	15.00	No
		46	5230	14.38	15.00	No
	802.11ac(VHT80)	42	5210	14.27	15.00	No
	802.11ac(VHT160)	50	5250	10.93	11.50	No
	802.11ax(HE20) (SU)	36	5180	14.33	15.00	No
		40	5200	14.44	15.00	No
		48	5240	14.19	15.00	No
	802.11ax(HE40) (SU)	38	5190	14.54	15.00	No
		46	5230	13.99	15.00	No
	802.11ax(HE80) (SU)	42	5210	14.39	15.00	No
	802.11ax(HE160) (SU)	50	5250	10.87	11.50	No
	802.11ax(HE20) (RU26)	36	5180	13.64	14.50	No
		40	5200	14.01	14.50	No
		48	5240	14.29	14.50	No
	802.11ax(HE20) (RU52)	36	5180	14.54	15.00	No
		40	5200	14.42	15.00	No
		48	5240	14.37	15.00	No
	802.11ax(HE20) (RU106)	36	5180	14.87	15.00	No
		40	5200	14.21	15.00	No
		48	5240	14.89	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	14.41	15.00	No
		60	5300	14.23	15.00	No
		64	5320	14.46	15.00	No
	802.11n(HT20)	52	5260	14.51	15.00	No
		60	5300	14.67	15.00	No
		64	5320	14.43	15.00	No
	802.11n(HT40)	54	5270	14.71	15.00	Yes

		62	5310	14.26	15.00	Yes
	802.11ac(VHT20)	52	5260	14.72	15.00	No
		60	5300	14.43	15.00	No
		64	5320	14.42	15.00	No
	802.11ac(VHT40)	54	5270	14.45	15.00	No
		62	5310	14.32	15.00	No
	802.11ac(VHT80)	58	5290	13.78	14.50	No
	802.11ax(HE20) (SU)	52	5260	14.59	15.00	No
		60	5300	14.80	15.00	No
		64	5320	14.45	15.00	No
	802.11ax(HE40) (SU)	54	5270	14.70	15.00	No
		62	5310	14.81	15.00	No
	802.11ax(HE80) (SU)	58	5290	14.01	14.50	No
	802.11ax(HE20) (RU26)	52	5260	13.34	15.00	No
		60	5300	14.50	15.00	No
		64	5320	14.20	15.00	No
	802.11ax(HE20) (RU52)	52	5260	14.65	15.00	No
		60	5300	14.61	15.00	No
		64	5320	14.32	15.00	No
	802.11ax(HE20) (RU106)	52	5260	14.21	15.00	No
		60	5300	14.13	15.00	No
		64	5320	14.77	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.55	16.00	No
		116	5580	15.47	16.00	No
		140	5700	15.59	16.00	No
		144	5720	15.17	16.00	No
	802.11n(HT20)	100	5500	15.48	16.00	No
		116	5580	15.77	16.00	No
		140	5700	15.01	16.00	No
		144	5720	15.49	16.00	No
	802.11n(HT40)	102	5510	15.54	16.00	No
		110	5550	15.20	16.00	No
		134	5670	15.35	16.00	No
		142	5710	15.74	16.00	No
	802.11ac(VHT20)	100	5500	15.65	16.00	No
		116	5580	15.34	16.00	No
		140	5700	15.24	16.00	No
		144	5720	15.83	16.00	No
	802.11ac(VHT40)	102	5510	15.82	16.00	No
		110	5550	15.54	16.00	No
		134	5670	15.62	16.00	No
		142	5710	15.42	16.00	No

	802.11ac(VHT80)	106	5530	15.71	16.00	Yes
		122	5610	15.49	16.00	Yes
		138	5690	15.59	16.00	Yes
	802.11ac(VHT160)	114	5570	11.74	12.50	No
	802.11ax(HE20) (SU)	100	5500	15.52	16.00	No
		116	5580	15.75	16.00	No
		140	5700	15.54	16.00	No
		144	5720	15.86	16.00	No
	802.11ax(HE40) (SU)	102	5510	15.76	16.00	No
		110	5550	15.51	16.00	No
		134	5670	15.33	16.00	No
		142	5710	15.01	16.00	No
	802.11ax(HE80) (SU)	106	5530	15.77	16.00	No
		122	5610	15.61	16.00	No
		138	5690	15.84	16.00	No
	802.11ax(HE160) (SU)	114	5570	11.79	12.50	No
	802.11ax(HE20) (RU26)	100	5500	14.45	15.00	No
		116	5580	14.15	15.00	No
		140	5700	11.93	12.50	No
		144	5720	14.59	15.00	No
	802.11ax(HE20) (RU52)	100	5500	15.52	16.00	No
		116	5580	15.88	16.00	No
		140	5700	15.44	16.00	No
		144	5720	15.27	16.00	No
	802.11ax(HE20) (RU106)	100	5500	15.10	16.00	No
		116	5580	15.61	16.00	No
		140	5700	15.31	16.00	No
		144	5720	15.48	16.00	No
5.8 (5.725~5.85)	802.11a	149	5745	15.47	16.00	No
		157	5785	15.76	16.00	No
		165	5825	15.26	16.00	No
	802.11n(HT20)	149	5745	15.13	16.00	No
		157	5785	15.55	16.00	No
		165	5825	15.27	16.00	No
	802.11n(HT40)	151	5755	15.36	16.00	No
		159	5795	15.89	16.00	No
	802.11ac(VHT20)	149	5745	15.23	16.00	No
		157	5785	15.70	16.00	No
		165	5825	15.46	16.00	No
	802.11ac(VHT40)	151	5755	15.50	16.00	No
		159	5795	15.96	16.00	No
	802.11ac(VHT80)	155	5775	15.63	16.00	Yes

	802.11ax(HE20) (SU)	149	5745	15.10	16.00	No
		157	5785	15.65	16.00	No
		165	5825	15.83	16.00	No
	802.11ax(HE40) (SU)	151	5755	15.57	16.00	No
		159	5795	15.85	16.00	No
	802.11ax(HE80) (SU)	155	5775	15.35	16.00	No
	802.11ax(HE20) (RU26)	149	5745	15.71	16.00	No
		157	5785	15.25	16.00	No
		165	5825	15.64	16.00	No
	802.11ax(HE20) (RU52)	149	5745	15.76	16.00	No
		157	5785	15.18	16.00	No
		165	5825	15.70	16.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	15.78	16.00	No
		157	5785	15.55	16.00	No
		165	5825	15.71	16.00	No
	802.11n(HT20)	169	5845	15.94	16.00	No
		173	5865	15.71	16.00	No
		177	5885	15.93	16.00	No
	802.11n(HT40)	169	5845	15.87	16.00	No
		173	5865	15.57	16.00	No
		177	5885	15.39	16.00	No
	802.11ac(VHT20)	167	5835	15.62	16.00	No
		175	5875	15.43	16.00	No
		169	5845	15.66	16.00	No
	802.11ac(VHT40)	173	5865	15.43	16.00	No
		177	5885	15.52	16.00	No
		167	5835	15.46	16.00	No
	802.11ac(VHT80)	175	5875	15.71	16.00	No
		171	5855	15.66	16.00	No
	802.11ac(VHT160)	163	5815	15.47	16.00	Yes
	802.11ax(HE20) (SU)	169	5845	15.60	16.00	No
		173	5865	15.49	16.00	No
		177	5885	15.37	16.00	No
	802.11ax(HE40) (SU)	167	5835	15.34	16.00	No
		175	5875	15.65	16.00	No
	802.11ax(HE80) (SU)	171	5855	15.69	16.00	No
	802.11ax(HE160) (SU)	163	5815	15.55	16.00	No
	802.11ax(HE20) (RU26)	169	5845	12.55	13.50	No
		173	5865	12.49	13.50	No
		177	5885	9.80	10.50	No

	802.11ax(HE20) (RU52)	169	5845	15.39	16.00	No
		173	5865	15.23	16.00	No
		177	5885	15.48	16.00	No
	802.11ax(HE20) (RU106)	169	5845	15.92	16.00	No
		173	5865	15.84	16.00	No
		177	5885	15.49	16.00	No
Note: 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, each band is tested independently for SAR.						

8.1.6 5G WIFI (SISO-Aux. Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.72	15.00	No
		40	5200	14.52	15.00	No
		48	5240	14.62	15.00	No
	802.11n(HT20)	36	5180	14.60	15.00	No
		40	5200	14.59	15.00	No
		48	5240	14.51	15.00	No
	802.11n(HT40)	38	5190	14.70	15.00	No
		46	5230	14.32	15.00	No
	802.11ac(VHT20)	36	5180	14.68	15.00	No
		40	5200	14.24	15.00	No
		48	5240	14.49	15.00	No
	802.11ac(VHT40)	38	5190	14.79	15.00	No
		46	5230	14.49	15.00	No
	802.11ac(VHT80)	42	5210	14.18	15.00	No
	802.11ac(VHT160)	50	5250	10.59	11.50	No
	802.11ax(HE20) (SU)	36	5180	14.39	15.00	No
		40	5200	14.47	15.00	No
		48	5240	14.78	15.00	No
	802.11ax(HE40) (SU)	38	5190	14.68	15.00	No
		46	5230	14.60	15.00	No
	802.11ax(HE80) (SU)	42	5210	14.33	15.00	No
	802.11ax(HE160) (SU)	50	5250	11.01	11.50	No
	802.11ax(HE20) (RU26)	36	5180	13.57	14.50	No
		40	5200	13.82	14.50	No
		48	5240	13.62	14.50	No
	802.11ax(HE20) (RU52)	36	5180	14.58	15.00	No
		40	5200	14.53	15.00	No
		48	5240	14.88	15.00	No
	802.11ax(HE20) (RU106)	36	5180	14.62	15.00	No
		40	5200	14.35	15.00	No
		48	5240	14.61	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	14.72	15.00	No
		60	5300	14.64	15.00	No
		64	5320	14.94	15.00	No
	802.11n(HT20)	52	5260	14.54	15.00	No
		60	5300	14.70	15.00	No
		64	5320	14.46	15.00	No
	802.11n(HT40)	54	5270	14.73	15.00	Yes

		62	5310	14.81	15.00	Yes
	802.11ac(VHT20)	52	5260	14.39	15.00	No
		60	5300	14.64	15.00	No
		64	5320	14.48	15.00	No
	802.11ac(VHT40)	54	5270	14.75	15.00	No
		62	5310	14.77	15.00	No
	802.11ac(VHT80)	58	5290	13.81	14.50	No
	802.11ax(HE20) (SU)	52	5260	14.86	15.00	No
		60	5300	14.40	15.00	No
		64	5320	14.25	15.00	No
	802.11ax(HE40) (SU)	54	5270	14.39	15.00	No
		62	5310	14.76	15.00	No
	802.11ax(HE80) (SU)	58	5290	13.71	14.50	No
	802.11ax(HE20) (RU26)	52	5260	13.89	15.00	No
		60	5300	14.40	15.00	No
		64	5320	14.03	15.00	No
	802.11ax(HE20) (RU52)	52	5260	14.70	15.00	No
		60	5300	14.66	15.00	No
		64	5320	14.38	15.00	No
	802.11ax(HE20) (RU106)	52	5260	14.93	15.00	No
		60	5300	14.48	15.00	No
		64	5320	14.52	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.32	16.00	No
		116	5580	15.14	16.00	No
		140	5700	15.79	16.00	No
		144	5720	15.42	16.00	No
	802.11n(HT20)	100	5500	15.36	16.00	No
		116	5580	15.80	16.00	No
		140	5700	15.57	16.00	No
		144	5720	15.80	16.00	No
	802.11n(HT40)	102	5510	15.99	16.00	No
		110	5550	15.80	16.00	No
		134	5670	15.91	16.00	No
		142	5710	15.76	16.00	No
	802.11ac(VHT20)	100	5500	15.53	16.00	No
		116	5580	15.73	16.00	No
		140	5700	15.38	16.00	No
		144	5720	15.45	16.00	No
	802.11ac(VHT40)	102	5510	15.72	16.00	No
		110	5550	15.73	16.00	No
		134	5670	15.93	16.00	No
		142	5710	15.52	16.00	No

	802.11ac(VHT80)	106	5530	15.78	16.00	Yes
		122	5610	15.65	16.00	Yes
		138	5690	15.61	16.00	Yes
	802.11ac(VHT160)	114	5570	11.84	12.50	No
	802.11ax(HE20) (SU)	100	5500	15.66	16.00	No
		116	5580	15.28	16.00	No
		140	5700	15.11	16.00	No
		144	5720	15.40	16.00	No
	802.11ax(HE40) (SU)	102	5510	15.89	16.00	No
		110	5550	15.94	16.00	No
		134	5670	15.81	16.00	No
		142	5710	15.76	16.00	No
	802.11ax(HE80) (SU)	106	5530	15.66	16.00	No
		122	5610	15.92	16.00	No
		138	5690	15.78	16.00	No
	802.11ax(HE160) (SU)	114	5570	11.92	12.50	No
	802.11ax(HE20) (RU26)	100	5500	14.16	15.00	No
		116	5580	14.45	15.00	No
		140	5700	12.01	12.50	No
		144	5720	14.34	15.00	No
	802.11ax(HE20) (RU52)	100	5500	15.48	16.00	No
		116	5580	15.35	16.00	No
		140	5700	15.30	16.00	No
		144	5720	15.35	16.00	No
	802.11ax(HE20) (RU106)	100	5500	15.38	16.00	No
		116	5580	15.35	16.00	No
		140	5700	15.74	16.00	No
		144	5720	15.92	16.00	No
5.8 (5.725~5.85)	802.11a	149	5745	15.51	16.00	No
		157	5785	15.52	16.00	No
		165	5825	15.89	16.00	No
	802.11n(HT20)	149	5745	15.80	16.00	No
		157	5785	15.56	16.00	No
		165	5825	15.59	16.00	No
	802.11n(HT40)	151	5755	15.75	16.00	No
		159	5795	15.64	16.00	No
	802.11ac(VHT20)	149	5745	15.88	16.00	No
		157	5785	15.38	16.00	No
		165	5825	15.68	16.00	No
	802.11ac(VHT40)	151	5755	15.42	16.00	No
		159	5795	15.73	16.00	No
	802.11ac(VHT80)	155	5775	15.47	16.00	Yes

	802.11ax(HE20) (SU)	149	5745	15.59	16.00	No
		157	5785	15.54	16.00	No
		165	5825	15.63	16.00	No
	802.11ax(HE40) (SU)	151	5755	15.34	16.00	No
		159	5795	15.40	16.00	No
	802.11ax(HE80) (SU)	155	5775	15.34	16.00	No
	802.11ax(HE20) (RU26)	149	5745	15.66	16.00	No
		157	5785	15.75	16.00	No
		165	5825	15.70	16.00	No
	802.11ax(HE20) (RU52)	149	5745	15.59	16.00	No
		157	5785	15.28	16.00	No
		165	5825	15.45	16.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	15.95	16.00	No
		157	5785	15.43	16.00	No
		165	5825	15.65	16.00	No
	802.11n(HT20)	169	5845	15.89	16.00	No
		173	5865	15.61	16.00	No
		177	5885	15.56	16.00	No
	802.11n(HT40)	169	5845	15.86	16.00	No
		173	5865	15.37	16.00	No
		177	5885	15.70	16.00	No
	802.11ac(VHT20)	167	5835	15.70	16.00	No
		175	5875	15.60	16.00	No
		177	5885	15.55	16.00	No
	802.11ac(VHT40)	169	5845	15.30	16.00	No
		173	5865	15.54	16.00	No
		177	5885	15.55	16.00	No
	802.11ac(VHT80)	167	5835	15.45	16.00	No
		175	5875	15.72	16.00	No
	802.11ac(VHT160)	171	5855	15.85	16.00	No
	802.11ax(HE20) (SU)	163	5815	15.59	16.00	Yes
	802.11ax(HE20) (SU)	169	5845	15.67	16.00	No
		173	5865	15.69	16.00	No
		177	5885	15.52	16.00	No
	802.11ax(HE40) (SU)	167	5835	15.31	16.00	No
		175	5875	15.41	16.00	No
	802.11ax(HE80) (SU)	171	5855	15.54	16.00	No
	802.11ax(HE160) (SU)	163	5815	15.51	16.00	No
	802.11ax(HE20) (RU26)	169	5845	13.06	13.50	No
		173	5865	12.19	13.50	No
		177	5885	9.57	10.50	No

	802.11ax(HE20) (RU52)	169	5845	15.22	16.00	No
		173	5865	15.61	16.00	No
		177	5885	15.62	16.00	No
	802.11ax(HE20) (RU106)	169	5845	15.63	16.00	No
		173	5865	15.45	16.00	No
		177	5885	15.74	16.00	No

Note: 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, each band is tested independently for SAR.

8.1.7 5G WIFI (MIMO-Main Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.30	15.00	No
		40	5200	14.56	15.00	No
		48	5240	14.44	15.00	No
	802.11n(HT20)	36	5180	14.60	15.00	No
		40	5200	14.75	15.00	No
		48	5240	14.70	15.00	No
	802.11n(HT40)	38	5190	13.35	15.00	No
		46	5230	14.76	15.00	No
	802.11ac(VHT20)	36	5180	14.63	15.00	No
		40	5200	14.42	15.00	No
		48	5240	14.54	15.00	No
	802.11ac(VHT40)	38	5190	13.49	15.00	No
		46	5230	14.59	15.00	No
	802.11ac(VHT80)	42	5210	12.81	13.50	No
	802.11ac(VHT160)	50	5250	8.70	9.50	No
	802.11ax(HE20) (SU)	36	5180	14.59	15.00	No
		40	5200	14.74	15.00	No
		48	5240	14.26	15.00	No
	802.11ax(HE40) (SU)	38	5190	13.32	15.00	No
		46	5230	14.64	15.00	No
	802.11ax(HE80) (SU)	42	5210	12.56	13.50	No
	802.11ax(HE160) (SU)	50	5250	9.00	10.00	No
	802.11ax(HE20) (RU26)	36	5180	8.79	10.00	No
		40	5200	9.04	10.00	No
		48	5240	8.97	10.00	No
	802.11ax(HE20) (RU52)	36	5180	12.05	13.00	No
		40	5200	12.35	13.00	No
		48	5240	12.57	13.00	No
	802.11ax(HE20) (RU106)	36	5180	14.05	14.50	No
		40	5200	13.63	14.50	No
		48	5240	13.66	14.50	No
5.3 (5.25~5.35)	802.11a	52	5260	14.56	15.00	No
		60	5300	14.32	15.00	No
		64	5320	14.54	15.00	No
	802.11n(HT20)	52	5260	14.67	15.00	No
		60	5300	14.23	15.00	No
		64	5320	14.31	15.00	No
	802.11n(HT40)	54	5270	14.72	15.00	No

		62	5310	13.69	15.00	No
	802.11ac(VHT20)	52	5260	14.23	15.00	No
		60	5300	14.55	15.00	No
		64	5320	14.88	15.00	No
	802.11ac(VHT40)	54	5270	14.67	15.00	No
		62	5310	13.27	15.00	No
	802.11ac(VHT80)	58	5290	10.88	11.50	No
	802.11ax(HE20) (SU)	52	5260	14.57	15.00	No
		60	5300	14.75	15.00	No
		64	5320	14.57	15.00	No
	802.11ax(HE40) (SU)	54	5270	14.59	15.00	No
		62	5310	14.61	15.00	No
	802.11ax(HE80) (SU)	58	5290	10.68	11.50	No
	802.11ax(HE20) (RU26)	52	5260	8.54	9.50	No
		60	5300	7.85	9.50	No
		64	5320	8.42	9.50	No
	802.11ax(HE20) (RU52)	52	5260	12.30	13.00	No
		60	5300	11.95	13.00	No
		64	5320	12.10	13.00	No
	802.11ax(HE20) (RU106)	52	5260	13.64	14.50	No
		60	5300	13.36	14.50	No
		64	5320	13.53	14.50	No
5.6 (5.47~5.725)	802.11a	100	5500	15.87	16.00	No
		116	5580	15.46	16.00	No
		140	5700	14.76	16.00	No
		144	5720	15.54	16.00	No
	802.11n(HT20)	100	5500	15.65	16.00	No
		116	5580	15.54	16.00	No
		140	5700	12.83	13.50	No
		144	5720	15.48	16.00	No
	802.11n(HT40)	102	5510	14.80	16.00	No
		110	5550	15.54	16.00	No
		134	5670	14.94	16.00	No
		142	5710	15.72	16.00	No
	802.11ac(VHT20)	100	5500	15.46	16.00	No
		116	5580	15.35	16.00	No
		140	5700	12.65	13.50	No
		144	5720	15.97	16.00	No
	802.11ac(VHT40)	102	5510	14.79	16.00	No
		110	5550	15.59	16.00	No
		134	5670	14.76	16.00	No
		142	5710	15.48	16.00	No

	802.11ac(VHT80)	106	5530	13.69	15.00	No
		122	5610	14.42	16.00	No
		138	5690	15.54	16.00	No
	802.11ac(VHT160)	114	5570	9.35	10.50	No
	802.11ax(HE20) (SU)	100	5500	15.66	16.00	No
		116	5580	15.58	16.00	No
		140	5700	12.95	14.00	No
		144	5720	15.55	16.00	No
	802.11ax(HE40) (SU)	102	5510	15.12	16.00	No
		110	5550	15.52	16.00	No
		134	5670	14.91	16.00	No
		142	5710	15.77	16.00	No
	802.11ax(HE80) (SU)	106	5530	13.92	15.00	No
		122	5610	14.28	15.00	No
		138	5690	15.40	16.00	No
	802.11ax(HE160) (SU)	114	5570	9.54	10.50	No
	802.11ax(HE20) (RU26)	100	5500	9.15	10.00	No
		116	5580	9.15	10.00	No
		140	5700	8.91	10.00	No
		144	5720	9.59	10.00	No
	802.11ax(HE20) (RU52)	100	5500	12.22	13.00	No
		116	5580	12.60	13.00	No
		140	5700	10.79	11.50	No
		144	5720	12.58	13.50	No
	802.11ax(HE20) (RU106)	100	5500	13.80	15.00	No
		116	5580	13.84	15.00	No
		140	5700	13.31	14.00	No
		144	5720	14.20	15.00	No
5.8 (5.725~5.85)	802.11a	149	5745	15.61	16.00	No
		157	5785	15.21	16.00	No
		165	5825	15.44	16.00	No
	802.11n(HT20)	149	5745	15.84	16.00	No
		157	5785	15.18	16.00	No
		165	5825	15.25	16.00	No
	802.11n(HT40)	151	5755	15.97	16.00	No
		159	5795	15.18	16.00	No
	802.11ac(VHT20)	149	5745	15.70	16.00	No
		157	5785	15.19	16.00	No
		165	5825	15.73	16.00	No
	802.11ac(VHT40)	151	5755	15.80	16.00	No
		159	5795	15.15	16.00	No
	802.11ac(VHT80)	155	5775	15.49	16.00	No

	802.11ax(HE20) (SU)	149	5745	15.57	16.00	No
		157	5785	15.47	16.00	No
		165	5825	15.38	16.00	No
	802.11ax(HE40) (SU)	151	5755	15.84	16.00	No
		159	5795	15.34	16.00	No
	802.11ax(HE80) (SU)	155	5775	15.64	16.00	No
	802.11ax(HE20) (RU26)	149	5745	15.63	16.00	No
		157	5785	15.46	16.00	No
		165	5825	15.30	16.00	No
	802.11ax(HE20) (RU52)	149	5745	15.65	16.00	No
		157	5785	15.54	16.00	No
		165	5825	15.87	16.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	15.45	16.00	No
		157	5785	15.72	16.00	No
		165	5825	15.62	16.00	No
	802.11n(HT20)	169	5845	13.59	14.00	No
		173	5865	13.43	14.00	No
		177	5885	13.29	14.00	No
	802.11n(HT40)	169	5845	13.30	14.00	No
		173	5865	13.49	14.00	No
		177	5885	13.20	14.00	No
	802.11ac(VHT20)	167	5835	15.49	16.00	No
		175	5875	15.49	16.00	No
		169	5845	13.15	14.00	No
	802.11ac(VHT40)	173	5865	13.61	14.00	No
		177	5885	13.31	14.00	No
		167	5835	15.82	16.00	No
	802.11ac(VHT80)	175	5875	15.50	16.00	No
		171	5855	15.76	16.00	No
	802.11ac(VHT160)	163	5815	12.27	13.00	No
	802.11ax(HE20) (SU)	169	5845	13.63	14.00	No
		173	5865	13.43	14.00	No
		177	5885	13.54	14.00	No
	802.11ax(HE40) (SU)	167	5835	15.24	16.00	No
		175	5875	15.86	16.00	No
	802.11ax(HE80) (SU)	171	5855	15.72	16.00	No
	802.11ax(HE160) (SU)	163	5815	12.11	13.00	No
	802.11ax(HE20) (RU26)	169	5845	6.18	7.50	No
		173	5865	6.66	7.50	No
		177	5885	3.37	4.00	No

	802.11ax(HE20) (RU52)	169	5845	9.73	10.50	No
		173	5865	9.94	10.50	No
		177	5885	8.51	9.50	No
	802.11ax(HE20) (RU106)	169	5845	11.41	12.00	No
		173	5865	11.13	12.00	No
		177	5885	11.04	12.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.8 5G WIFI (MIMO-Aux. Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.54	15.00	No
		40	5200	14.86	15.00	No
		48	5240	14.39	15.00	No
	802.11n(HT20)	36	5180	14.38	15.00	No
		40	5200	14.64	15.00	No
		48	5240	14.63	15.00	No
	802.11n(HT40)	38	5190	13.49	15.00	No
		46	5230	14.67	15.00	No
	802.11ac(VHT20)	36	5180	14.65	15.00	No
		40	5200	14.27	15.00	No
		48	5240	14.41	15.00	No
	802.11ac(VHT40)	38	5190	13.46	15.00	No
		46	5230	14.68	15.00	No
	802.11ac(VHT80)	42	5210	12.72	13.50	No
	802.11ac(VHT160)	50	5250	8.97	9.50	No
	802.11ax(HE20) (SU)	36	5180	14.34	15.00	No
		40	5200	14.20	15.00	No
		48	5240	14.42	15.00	No
	802.11ax(HE40) (SU)	38	5190	13.92	15.00	No
		46	5230	14.58	15.00	No
	802.11ax(HE80) (SU)	42	5210	12.82	13.50	No
	802.11ax(HE160) (SU)	50	5250	9.59	10.00	No
	802.11ax(HE20) (RU26)	36	5180	8.99	10.00	No
		40	5200	9.19	10.00	No
		48	5240	8.75	10.00	No
	802.11ax(HE20) (RU52)	36	5180	12.61	13.00	No
		40	5200	12.12	13.00	No
		48	5240	12.80	13.00	No
	802.11ax(HE20) (RU106)	36	5180	13.41	14.50	No
		40	5200	13.81	14.50	No
		48	5240	13.76	14.50	No
5.3 (5.25~5.35)	802.11a	52	5260	14.75	15.00	No
		60	5300	14.53	15.00	No
		64	5320	14.45	15.00	No
	802.11n(HT20)	52	5260	14.44	15.00	No
		60	5300	14.50	15.00	No
		64	5320	14.68	15.00	No
	802.11n(HT40)	54	5270	14.54	15.00	No

		62	5310	13.94	15.00	No
	802.11ac(VHT20)	52	5260	14.40	15.00	No
		60	5300	14.17	15.00	No
		64	5320	14.49	15.00	No
	802.11ac(VHT40)	54	5270	14.84	15.00	No
		62	5310	13.68	15.00	No
	802.11ac(VHT80)	58	5290	10.60	11.50	No
	802.11ax(HE20) (SU)	52	5260	14.74	15.00	No
		60	5300	14.29	15.00	No
		64	5320	14.53	15.00	No
	802.11ax(HE40) (SU)	54	5270	14.40	15.00	No
		62	5310	14.64	15.00	No
	802.11ax(HE80) (SU)	58	5290	10.92	11.50	No
	802.11ax(HE20) (RU26)	52	5260	8.81	9.50	No
		60	5300	8.59	9.50	No
		64	5320	8.77	9.50	No
	802.11ax(HE20) (RU52)	52	5260	12.18	13.00	No
		60	5300	12.27	13.00	No
		64	5320	12.15	13.00	No
	802.11ax(HE20) (RU106)	52	5260	13.89	14.50	No
		60	5300	13.65	14.50	No
		64	5320	13.33	14.50	No
5.6 (5.47~5.725)	802.11a	100	5500	15.28	16.00	No
		116	5580	15.62	16.00	No
		140	5700	14.92	16.00	No
		144	5720	15.74	16.00	No
	802.11n(HT20)	100	5500	15.51	16.00	No
		116	5580	15.74	16.00	No
		140	5700	13.31	13.50	No
		144	5720	15.32	16.00	No
	802.11n(HT40)	102	5510	15.13	16.00	No
		110	5550	15.63	16.00	No
		134	5670	14.92	16.00	No
		142	5710	15.53	16.00	No
	802.11ac(VHT20)	100	5500	15.72	16.00	No
		116	5580	15.64	16.00	No
		140	5700	12.94	13.50	No
		144	5720	15.48	16.00	No
	802.11ac(VHT40)	102	5510	15.18	16.00	No
		110	5550	15.20	16.00	No
		134	5670	15.24	16.00	No
		142	5710	15.40	16.00	No

	802.11ac(VHT80)	106	5530	13.82	15.00	No
		122	5610	14.65	16.00	No
		138	5690	15.58	16.00	No
	802.11ac(VHT160)	114	5570	10.11	10.50	No
	802.11ax(HE20) (SU)	100	5500	15.83	16.00	No
		116	5580	15.69	16.00	No
		140	5700	13.24	14.00	No
		144	5720	15.37	16.00	No
	802.11ax(HE40) (SU)	102	5510	14.89	16.00	No
		110	5550	15.69	16.00	No
		134	5670	14.87	16.00	No
		142	5710	15.36	16.00	No
	802.11ax(HE80) (SU)	106	5530	13.73	15.00	No
		122	5610	14.38	15.00	No
		138	5690	15.76	16.00	No
	802.11ax(HE160) (SU)	114	5570	9.97	10.50	No
	802.11ax(HE20) (RU26)	100	5500	9.21	10.00	No
		116	5580	8.87	10.00	No
		140	5700	8.87	10.00	No
		144	5720	9.35	10.00	No
	802.11ax(HE20) (RU52)	100	5500	12.43	13.00	No
		116	5580	12.42	13.00	No
		140	5700	10.86	11.50	No
		144	5720	13.04	13.50	No
	802.11ax(HE20) (RU106)	100	5500	14.35	15.00	No
		116	5580	13.83	15.00	No
		140	5700	13.41	14.00	No
		144	5720	14.19	15.00	No
5.8 (5.725~5.85)	802.11a	149	5745	15.31	16.00	No
		157	5785	15.85	16.00	No
		165	5825	15.86	16.00	No
	802.11n(HT20)	149	5745	14.95	16.00	No
		157	5785	15.41	16.00	No
		165	5825	15.53	16.00	No
	802.11n(HT40)	151	5755	15.09	16.00	No
		159	5795	15.45	16.00	No
	802.11ac(VHT20)	149	5745	15.09	16.00	No
		157	5785	15.55	16.00	No
		165	5825	15.47	16.00	No
	802.11ac(VHT40)	151	5755	15.48	16.00	No
		159	5795	15.43	16.00	No
	802.11ac(VHT80)	155	5775	15.61	16.00	No

	802.11ax(HE20) (SU)	149	5745	14.89	16.00	No
		157	5785	15.14	16.00	No
		165	5825	15.41	16.00	No
	802.11ax(HE40) (SU)	151	5755	15.33	16.00	No
		159	5795	15.37	16.00	No
	802.11ax(HE80) (SU)	155	5775	15.62	16.00	No
	802.11ax(HE20) (RU26)	149	5745	15.67	16.00	No
		157	5785	15.82	16.00	No
		165	5825	15.46	16.00	No
	802.11ax(HE20) (RU52)	149	5745	15.38	16.00	No
		157	5785	15.70	16.00	No
		165	5825	15.64	16.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	15.70	16.00	No
		157	5785	15.95	16.00	No
		165	5825	15.65	16.00	No
	802.11n(HT20)	169	5845	13.51	14.00	No
		173	5865	13.30	14.00	No
		177	5885	13.57	14.00	No
	802.11n(HT40)	169	5845	13.33	14.00	No
		173	5865	13.73	14.00	No
		177	5885	13.35	14.00	No
	802.11ac(VHT20)	167	5835	15.37	16.00	No
		175	5875	15.81	16.00	No
		169	5845	13.34	14.00	No
	802.11ac(VHT40)	173	5865	13.65	14.00	No
		177	5885	13.28	14.00	No
		167	5835	15.55	16.00	No
	802.11ac(VHT80)	175	5875	15.73	16.00	No
		171	5855	15.63	16.00	No
	802.11ac(VHT160)	163	5815	12.31	13.00	No
	802.11ax(HE20) (SU)	169	5845	13.54	14.00	No
		173	5865	13.76	14.00	No
		177	5885	13.67	14.00	No
	802.11ax(HE40) (SU)	167	5835	15.52	16.00	No
		175	5875	15.85	16.00	No
	802.11ax(HE80) (SU)	171	5855	15.40	16.00	No
	802.11ax(HE160) (SU)	163	5815	12.78	13.00	No
	802.11ax(HE20) (RU26)	169	5845	6.18	7.50	No
		173	5865	6.37	7.50	No
		177	5885	3.19	4.00	No

	802.11ax(HE20) (RU52)	169	5845	10.01	10.50	No
		173	5865	10.12	10.50	No
		177	5885	9.19	9.50	No
	802.11ax(HE20) (RU106)	169	5845	11.46	12.00	No
		173	5865	11.21	12.00	No
		177	5885	11.03	12.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.9 6G WIFI (SISO-Main Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	6.77	7.50	No
		49	6195	7.01	7.50	No
		93	6415	6.79	7.50	No
		97	6435	6.55	7.50	No
		105	6475	7.03	7.50	No
		113	6515	6.76	7.50	No
		117	6535	6.62	7.50	No
		149	6695	6.88	7.50	No
		181	6855	6.85	7.50	No
		185	6875	6.87	7.50	No
		189	6895	6.87	7.50	No
		209	6995	6.37	7.50	No
		229	7095	6.99	7.50	No
		233	7115	7.29	7.50	No
	802.11ax(HE40) (SU)	3	5965	9.83	11.00	No
		51	6205	9.78	11.00	No
		91	6405	10.06	11.00	No
		99	6445	9.95	11.00	No
		107	6485	9.87	11.00	No
		115	6525	9.65	11.00	No
		123	6565	9.60	11.00	No
		147	6685	9.50	11.00	No
		179	6845	9.46	11.00	No
		187	6885	9.65	11.00	No
		195	6925	10.17	11.00	No
		211	7005	9.46	11.00	No
		227	7085	9.70	11.00	No
	802.11ax(HE80) (SU)	7	5985	12.17	13.00	No
		55	6225	12.37	13.00	No
		87	6385	12.47	13.00	No
		103	6465	12.40	13.00	No
		119	6545	12.55	13.00	No
		135	6625	12.43	13.00	No
		151	6705	12.54	13.00	No
		167	6785	12.77	13.00	No
		183	6865	12.60	13.00	No
		199	6945	12.60	13.00	No
		215	7025	12.12	13.00	No
	802.11ax(HE160)	15	6025	12.46	13.00	Yes

	(SU)	47	6185	12.94	13.00	Yes
		79	6345	12.42	13.00	Yes
		111	6505	12.83	13.00	Yes
		143	6665	12.59	13.00	Yes
		175	6825	12.50	13.00	Yes
		207	6985	12.48	13.00	Yes
	802.11ax(HE20) (RU26)	1	5955	-2.74	-2.00	No
		49	6195	-3.16	-2.00	No
		93	6415	-2.54	-2.00	No
		97	6435	-2.65	-2.00	No
		105	6475	-3.33	-2.00	No
		113	6515	-2.75	-2.00	No
		117	6535	-3.43	-2.00	No
		149	6695	-2.80	-2.00	No
		181	6855	-3.02	-2.00	No
		185	6875	-2.60	-2.00	No
		189	6895	-2.54	-2.00	No
		209	6995	-2.48	-2.00	No
		229	7095	-1.65	-1.00	No
		233	7115	-1.60	-1.00	No
	802.11ax(HE20) (RU52)	1	5955	0.72	2.00	No
		49	6195	0.12	2.00	No
		93	6415	0.72	2.00	No
		97	6435	0.58	2.00	No
		105	6475	0.39	2.00	No
		113	6515	0.09	2.00	No
		117	6535	0.43	2.00	No
		149	6695	0.33	2.00	No
		181	6855	0.52	2.00	No
		185	6875	0.58	2.00	No
		189	6895	0.71	2.00	No
		209	6995	0.82	2.00	No
		229	7095	1.23	2.00	No
		233	7115	1.87	2.50	No
	802.11ax(HE20) (RU106)	1	5955	3.37	4.00	No
		49	6195	3.34	4.00	No
		93	6415	2.91	4.00	No
		97	6435	2.93	4.00	No
		105	6475	3.38	4.00	No
		113	6515	3.25	4.00	No
		117	6535	3.15	4.00	No
		149	6695	3.55	4.00	No
		181	6855	3.04	4.00	No

		185	6875	3.13	4.00	No
		189	6895	3.18	4.00	No
		209	6995	3.46	4.00	No
		229	7095	4.36	5.00	No
		233	7115	4.51	5.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.10 6G WIFI (SISO-Aux. Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	6.99	7.50	No
		49	6195	6.54	7.50	No
		93	6415	6.68	7.50	No
		97	6435	6.58	7.50	No
		105	6475	7.03	7.50	No
		113	6515	6.82	7.50	No
		117	6535	6.85	7.50	No
		149	6695	7.15	7.50	No
		181	6855	6.64	7.50	No
		185	6875	6.81	7.50	No
		189	6895	6.87	7.50	No
		209	6995	6.04	7.50	No
		229	7095	7.18	7.50	No
		233	7115	7.03	7.50	No
	802.11ax(HE40) (SU)	3	5965	9.98	11.00	No
		51	6205	9.79	11.00	No
		91	6405	9.99	11.00	No
		99	6445	9.90	11.00	No
		107	6485	9.81	11.00	No
		115	6525	10.01	11.00	No
		123	6565	10.08	11.00	No
		147	6685	9.72	11.00	No
		179	6845	9.32	11.00	No
		187	6885	9.75	11.00	No
		195	6925	10.20	11.00	No
		211	7005	9.26	11.00	No
		227	7085	10.24	11.00	No
	802.11ax(HE80) (SU)	7	5985	12.16	13.00	No
		55	6225	12.41	13.00	No
		87	6385	12.20	13.00	No
		103	6465	12.44	13.00	No
		119	6545	12.25	13.00	No
		135	6625	12.41	13.00	No
		151	6705	12.86	13.00	No
		167	6785	12.73	13.00	No
		183	6865	12.75	13.00	No
		199	6945	12.87	13.00	No
		215	7025	12.13	13.00	No
	802.11ax(HE160)	15	6025	12.37	13.00	Yes

	(SU)	47	6185	12.88	13.00	Yes
		79	6345	12.77	13.00	Yes
		111	6505	12.53	13.00	Yes
		143	6665	12.53	13.00	Yes
		175	6825	12.42	13.00	Yes
		207	6985	12.51	13.00	Yes
	802.11ax(HE20) (RU26)	1	5955	-2.73	-2.00	No
		49	6195	-2.98	-2.00	No
		93	6415	-3.17	-2.00	No
		97	6435	-3.09	-2.00	No
		105	6475	-3.11	-2.00	No
		113	6515	-2.47	-2.00	No
		117	6535	-3.23	-2.00	No
		149	6695	-3.00	-2.00	No
		181	6855	-3.07	-2.00	No
		185	6875	-2.69	-2.00	No
		189	6895	-2.40	-2.00	No
		209	6995	-2.96	-2.00	No
		229	7095	-2.00	-1.00	No
		233	7115	-1.82	-1.00	No
	802.11ax(HE20) (RU52)	1	5955	0.39	2.00	No
		49	6195	0.57	2.00	No
		93	6415	0.33	2.00	No
		97	6435	0.44	2.00	No
		105	6475	0.50	2.00	No
		113	6515	0.29	2.00	No
		117	6535	0.58	2.00	No
		149	6695	0.33	2.00	No
		181	6855	0.57	2.00	No
		185	6875	0.11	2.00	No
		189	6895	0.60	2.00	No
		209	6995	0.34	2.00	No
		229	7095	1.22	2.00	No
		233	7115	1.80	2.50	No
	802.11ax(HE20) (RU106)	1	5955	3.12	4.00	No
		49	6195	3.06	4.00	No
		93	6415	2.60	4.00	No
		97	6435	2.76	4.00	No
		105	6475	3.27	4.00	No
		113	6515	3.35	4.00	No
		117	6535	3.34	4.00	No
		149	6695	3.43	4.00	No
		181	6855	3.30	4.00	No

		185	6875	3.15	4.00	No
		189	6895	3.15	4.00	No
		209	6995	2.90	4.00	No
		229	7095	3.97	5.00	No
		233	7115	4.68	5.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.11 6G WIFI (MIMO-Main Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	0.61	1.00	No
		49	6195	0.04	1.00	No
		93	6415	0.12	1.00	No
		97	6435	0.36	1.00	No
		105	6475	0.06	1.00	No
		113	6515	0.74	1.00	No
		117	6535	0.74	1.00	No
		149	6695	0.62	1.00	No
		181	6855	0.46	1.00	No
		185	6875	0.33	1.00	No
		189	6895	0.18	1.00	No
		209	6995	0.39	1.00	No
		229	7095	1.14	2.00	No
		233	7115	1.28	2.00	No
	802.11ax(HE40) (SU)	3	5965	3.88	5.00	No
		51	6205	3.87	5.00	No
		91	6405	3.91	5.00	No
		99	6445	3.76	5.00	No
		107	6485	3.63	5.00	No
		115	6525	3.49	5.00	No
		123	6565	3.99	5.00	No
		147	6685	3.51	5.00	No
		179	6845	3.81	5.00	No
		187	6885	3.33	5.00	No
		195	6925	3.97	5.00	No
		211	7005	3.74	5.00	No
		227	7085	3.87	5.00	No
	802.11ax(HE80) (SU)	7	5985	6.92	7.50	No
		55	6225	6.01	7.50	No
		87	6385	6.62	7.50	No
		103	6465	6.57	7.50	No
		119	6545	6.21	7.50	No
		135	6625	6.34	7.50	No
		151	6705	6.22	7.50	No
		167	6785	6.22	7.50	No
		183	6865	5.91	7.50	No
		199	6945	6.69	7.50	No
		215	7025	6.72	7.50	No
	802.11ax(HE160)	15	6025	8.95	10.00	No

	(SU)	47	6185	8.36	10.00	No
		79	6345	8.98	10.00	No
		111	6505	9.13	10.00	No
		143	6665	8.69	10.00	No
		175	6825	8.65	10.00	No
		207	6985	4.59	6.00	No
	802.11ax(HE20) (RU26)	1	5955	-8.66	-8.00	No
		49	6195	-8.89	-8.00	No
		93	6415	-9.02	-8.00	No
		97	6435	-8.57	-8.00	No
		105	6475	-8.81	-8.00	No
		113	6515	-9.01	-8.00	No
		117	6535	-8.63	-8.00	No
		149	6695	-8.10	-8.00	No
		181	6855	-8.93	-8.00	No
		185	6875	-8.51	-8.00	No
		189	6895	-8.07	-8.00	No
		209	6995	-8.15	-8.00	No
		229	7095	-7.44	-6.00	No
		233	7115	-7.35	-6.00	No
	802.11ax(HE20) (RU52)	1	5955	-5.88	-5.00	No
		49	6195	-5.73	-5.00	No
		93	6415	-5.87	-5.00	No
		97	6435	-5.61	-5.00	No
		105	6475	-5.48	-5.00	No
		113	6515	-5.26	-5.00	No
		117	6535	-6.08	-5.00	No
		149	6695	-5.66	-5.00	No
		181	6855	-5.55	-5.00	No
		185	6875	-5.59	-5.00	No
		189	6895	-5.55	-5.00	No
		209	6995	-4.93	-4.00	No
		229	7095	-3.67	-3.00	No
		233	7115	-4.34	-3.00	No
	802.11ax(HE20) (RU106)	1	5955	-2.56	-2.00	No
		49	6195	-2.42	-2.00	No
		93	6415	-2.54	-2.00	No
		97	6435	-2.43	-2.00	No
		105	6475	-2.75	-2.00	No
		113	6515	-2.93	-2.00	No
		117	6535	-2.85	-2.00	No
		149	6695	-2.85	-2.00	No
		181	6855	-3.14	-2.00	No

		185	6875	-2.54	-2.00	No
		189	6895	-2.42	-2.00	No
		209	6995	-2.59	-2.00	No
		229	7095	-1.62	-1.00	No
		233	7115	-1.41	-1.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.12 6G WIFI (MIMO-Aux. Antenna) (Laptop)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	0.13	1.50	No
		49	6195	0.58	1.50	No
		93	6415	0.86	1.50	No
		97	6435	0.67	1.50	No
		105	6475	0.79	1.50	No
		113	6515	0.98	1.50	No
		117	6535	1.25	1.50	No
		149	6695	0.54	1.50	No
		181	6855	0.36	1.50	No
		185	6875	0.95	1.50	No
		189	6895	0.67	1.50	No
		209	6995	0.63	1.50	No
		229	7095	1.04	2.00	No
		233	7115	1.38	2.00	No
	802.11ax(HE40) (SU)	3	5965	3.58	5.00	No
		51	6205	3.74	5.00	No
		91	6405	3.92	5.00	No
		99	6445	4.23	5.00	No
		107	6485	3.82	5.00	No
		115	6525	3.87	5.00	No
		123	6565	4.07	5.00	No
		147	6685	3.66	5.00	No
		179	6845	3.69	5.00	No
		187	6885	3.53	5.00	No
		195	6925	4.11	5.00	No
		211	7005	3.95	5.00	No
		227	7085	4.05	5.00	No
	802.11ax(HE80) (SU)	7	5985	6.78	7.50	No
		55	6225	6.29	7.50	No
		87	6385	6.55	7.50	No
		103	6465	6.34	7.50	No
		119	6545	6.43	7.50	No
		135	6625	6.04	7.50	No
		151	6705	5.80	7.50	No
		167	6785	6.17	7.50	No
		183	6865	6.40	7.50	No
		199	6945	6.28	7.50	No
		215	7025	7.01	7.50	No
	802.11ax(HE160)	15	6025	9.05	10.00	No

	(SU)	47	6185	8.18	10.00	No
		79	6345	8.85	10.00	No
		111	6505	8.97	10.00	No
		143	6665	8.66	10.00	No
		175	6825	8.79	10.00	No
		207	6985	4.55	6.00	No
	802.11ax(HE20) (RU26)	1	5955	-8.75	-8.00	No
		49	6195	-8.95	-8.00	No
		93	6415	-8.39	-8.00	No
		97	6435	-8.81	-8.00	No
		105	6475	-9.14	-8.00	No
		113	6515	-8.85	-8.00	No
		117	6535	-8.71	-8.00	No
		149	6695	-8.18	-8.00	No
		181	6855	-8.37	-8.00	No
		185	6875	-8.63	-8.00	No
		189	6895	-8.31	-8.00	No
		209	6995	-8.20	-8.00	No
		229	7095	-7.31	-6.00	No
		233	7115	-7.14	-6.00	No
	802.11ax(HE20) (RU52)	1	5955	-5.15	-5.00	No
		49	6195	-5.51	-5.00	No
		93	6415	-5.78	-5.00	No
		97	6435	-5.13	-5.00	No
		105	6475	-5.29	-5.00	No
		113	6515	-5.43	-5.00	No
		117	6535	-5.19	-5.00	No
		149	6695	-5.10	-5.00	No
		181	6855	-5.12	-5.00	No
		185	6875	-5.25	-5.00	No
		189	6895	-5.44	-5.00	No
		209	6995	-5.28	-4.00	No
		229	7095	-3.96	-3.00	No
		233	7115	-3.88	-3.00	No
	802.11ax(HE20) (RU106)	1	5955	-2.76	-2.00	No
		49	6195	-3.04	-2.00	No
		93	6415	-2.48	-2.00	No
		97	6435	-2.94	-2.00	No
		105	6475	-2.74	-2.00	No
		113	6515	-2.73	-2.00	No
		117	6535	-2.63	-2.00	No
		149	6695	-2.60	-2.00	No
		181	6855	-2.87	-2.00	No

		185	6875	-2.73	-2.00	No
		189	6895	-2.57	-2.00	No
		209	6995	-2.24	-2.00	No
		229	7095	-1.17	-1.00	No
		233	7115	-1.27	-1.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.13 2.4G WIFI (SISO-Main Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.67	12.00	Yes
		6	2437	11.82	12.00	Yes
		10	2457	11.95	12.00	No
		11	2462	11.61	12.00	Yes
		12	2467	11.16	12.00	No
		13	2472	11.03	12.00	No
	802.11g	1	2412	11.34	12.00	No
		2	2417	11.53	12.00	No
		6	2437	11.88	12.00	No
		10	2457	11.58	12.00	No
		11	2462	11.52	12.00	No
		12	2467	11.78	12.00	No
		13	2472	11.68	12.00	No
	VHT20	1	2412	11.53	12.00	No
		2	2417	11.92	12.00	No
		6	2437	11.42	12.00	No
		10	2457	11.68	12.00	No
		11	2462	11.81	12.00	No
		12	2467	11.52	12.00	No
		13	2472	10.38	11.00	No
	VHT40	3	2422	11.81	12.00	No
		6	2437	11.40	12.00	No
		9	2452	11.85	12.00	No
		10	2457	11.62	12.00	No
		11	2462	11.50	12.00	No
	802.11ax(HE20) (SU)	1	2412	11.94	12.00	No
		2	2417	11.88	12.00	No
		6	2437	11.97	12.00	No
		10	2457	11.75	12.00	No
		11	2462	11.54	12.00	No
		12	2467	11.79	12.00	No
		13	2472	10.59	11.00	No
	802.11ax(HE40) (SU)	3	2422	11.89	12.00	No
		6	2437	11.91	12.00	No
		9	2452	12.00	12.00	No
		10	2457	11.89	12.00	No

	802.11ax(HE20) (RU26)	11	2462	11.49	12.00	No
		1	2412	11.99	12.00	No
		6	2437	11.68	12.00	No
		11	2462	10.96	11.00	No
		12	2467	7.97	9.00	No
		13	2472	-3.59	-3.00	No
	802.11ax(HE20) (RU52)	1	2412	11.73	12.00	No
		6	2437	11.62	12.00	No
		11	2462	11.88	12.00	No
		12	2467	10.52	11.00	No
		13	2472	2.29	3.00	No
	802.11ax(HE20) (RU106)	1	2412	11.53	12.00	No
		6	2437	11.74	12.00	No
		11	2462	11.58	12.00	No
		12	2467	11.54	12.00	No
		13	2472	5.31	6.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 1.180 * (15.85mW/15.85mW) = 1.180 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.14 2.4G WIFI (SISO-Aux. Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.83	12.00	Yes
		6	2437	11.87	12.00	Yes
		10	2457	11.64	12.00	No
		11	2462	11.98	12.00	Yes
		12	2467	11.64	12.00	No
		13	2472	11.51	12.00	No
	802.11g	1	2412	11.55	12.00	No
		2	2417	11.75	12.00	No
		6	2437	11.87	12.00	No
		10	2457	11.52	12.00	No
		11	2462	11.71	12.00	No
		12	2467	11.56	12.00	No
		13	2472	11.61	12.00	No
	VHT20	1	2412	11.58	12.00	No
		2	2417	11.69	12.00	No
		6	2437	11.55	12.00	No
		10	2457	11.90	12.00	No
		11	2462	11.81	12.00	No
		12	2467	11.53	12.00	No
		13	2472	10.27	11.00	No
	VHT40	3	2422	11.49	12.00	No
		6	2437	11.41	12.00	No
		9	2452	11.75	12.00	No
		10	2457	11.60	12.00	No
		11	2462	11.33	12.00	No
	802.11ax(HE20) (SU)	1	2412	11.39	12.00	No
		2	2417	11.40	12.00	No
		6	2437	11.61	12.00	No
		10	2457	11.78	12.00	No
		11	2462	11.63	12.00	No
		12	2467	11.87	12.00	No
		13	2472	10.31	11.00	No
	802.11ax(HE40) (SU)	3	2422	11.41	12.00	No
		6	2437	11.45	12.00	No
		9	2452	11.93	12.00	No
		10	2457	11.57	12.00	No

	802.11ax(HE20) (RU26)	11	2462	11.58	12.00	No
		1	2412	11.74	12.00	No
		6	2437	12.00	12.00	No
		11	2462	11.84	12.00	No
		12	2467	8.19	9.00	No
		13	2472	-3.40	-3.00	No
	802.11ax(HE20) (RU52)	1	2412	11.61	12.00	No
		6	2437	11.46	12.00	No
		11	2462	11.00	12.00	No
		12	2467	10.50	11.00	No
		13	2472	2.37	3.00	No
	802.11ax(HE20) (RU106)	1	2412	11.78	12.00	No
		6	2437	11.38	12.00	No
		11	2462	11.95	12.00	No
		12	2467	11.74	12.00	No
		13	2472	5.64	6.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 1.074 * (15.85mW/15.85mW) = 1.074 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.15 2.4G WIFI (MIMO-Main Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.73	12.00	No
		6	2437	11.72	12.00	No
		10	2457	11.82	12.00	No
		11	2462	11.63	12.00	No
		12	2467	11.80	12.00	No
		13	2472	5.41	6.00	No
	802.11g	1	2412	11.70	12.00	No
		2	2417	11.51	12.00	No
		6	2437	11.83	12.00	No
		10	2457	11.79	12.00	No
		11	2462	11.76	12.00	No
		12	2467	11.48	12.00	No
		13	2472	10.36	11.00	No
	VHT20	1	2412	12.00	12.00	No
		2	2417	11.85	12.00	No
		6	2437	11.40	12.00	No
		10	2457	11.62	12.00	No
		11	2462	11.79	12.00	No
		12	2467	11.58	12.00	No
		13	2472	5.22	6.00	No
	VHT40	3	2422	11.59	12.00	No
		6	2437	11.81	12.00	No
		9	2452	11.51	12.00	No
		10	2457	11.58	12.00	No
		11	2462	11.47	12.00	No
	802.11ax(HE20) (SU)	1	2412	11.89	12.00	No
		2	2417	11.66	12.00	No
		6	2437	11.71	12.00	No
		10	2457	11.82	12.00	No
		11	2462	11.28	12.00	No
		12	2467	11.60	12.00	No
		13	2472	4.99	6.00	No
	802.11ax(HE40) (SU)	3	2422	11.82	12.00	No
		6	2437	11.20	12.00	No
		9	2452	11.80	12.00	No
		10	2457	11.70	12.00	No

	802.11ax(HE20) (RU26)	11	2462	10.54	12.00	No
		1	2412	11.72	12.00	No
		6	2437	11.53	12.00	No
		11	2462	11.14	12.00	No
		12	2467	7.01	7.50	No
		13	2472	-6.43	-5.00	No
	802.11ax(HE20) (RU52)	1	2412	11.64	12.00	No
		6	2437	11.53	12.00	No
		11	2462	11.45	12.00	No
		12	2467	8.50	9.50	No
		13	2472	-0.35	0.50	No
	802.11ax(HE20) (RU106)	1	2412	11.32	12.00	No
		6	2437	11.50	12.00	No
		11	2462	11.97	12.00	No
		12	2467	10.68	12.00	No
		13	2472	2.72	4.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.16 2.4G WIFI (MIMO-Aux. Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.87	12.00	No
		6	2437	11.65	12.00	No
		10	2457	11.52	12.00	No
		11	2462	11.84	12.00	No
		12	2467	11.75	12.00	No
		13	2472	5.61	6.00	No
	802.11g	1	2412	11.68	12.00	No
		2	2417	11.68	12.00	No
		6	2437	11.96	12.00	No
		10	2457	11.72	12.00	No
		11	2462	11.67	12.00	No
		12	2467	11.79	12.00	No
		13	2472	10.67	11.00	No
	VHT20	1	2412	11.83	12.00	No
		2	2417	11.49	12.00	No
		6	2437	11.29	12.00	No
		10	2457	11.87	12.00	No
		11	2462	11.61	12.00	No
		12	2467	11.91	12.00	No
		13	2472	5.52	6.00	No
	VHT40	3	2422	11.82	12.00	No
		6	2437	11.50	12.00	No
		9	2452	11.92	12.00	No
		10	2457	11.56	12.00	No
		11	2462	11.58	12.00	No
	802.11ax(HE20) (SU)	1	2412	11.53	12.00	No
		2	2417	11.57	12.00	No
		6	2437	11.50	12.00	No
		10	2457	11.43	12.00	No
		11	2462	11.53	12.00	No
		12	2467	11.35	12.00	No
		13	2472	5.34	6.00	No
	802.11ax(HE40) (SU)	3	2422	11.85	12.00	No
		6	2437	11.80	12.00	No
		9	2452	11.82	12.00	No
		10	2457	11.68	12.00	No

	802.11ax(HE20) (RU26)	11	2462	10.42	12.00	No
		1	2412	11.75	12.00	No
		6	2437	11.58	12.00	No
		11	2462	10.99	12.00	No
		12	2467	7.02	7.50	No
		13	2472	-6.24	-5.00	No
	802.11ax(HE20) (RU52)	1	2412	11.59	12.00	No
		6	2437	11.46	12.00	No
		11	2462	11.89	12.00	No
		12	2467	8.61	9.50	No
		13	2472	-0.08	0.50	No
	802.11ax(HE20) (RU106)	1	2412	11.76	12.00	No
		6	2437	11.57	12.00	No
		11	2462	11.73	12.00	No
		12	2467	10.99	12.00	No
		13	2472	2.87	4.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.17 5G WIFI (SISO-Main Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.54	11.00	No
		40	5200	10.82	11.00	No
		48	5240	10.68	11.00	No
	802.11n(HT20)	36	5180	10.74	11.00	No
		40	5200	10.77	11.00	No
		48	5240	10.85	11.00	No
	802.11n(HT40)	38	5190	10.74	11.00	No
		46	5230	9.99	11.00	No
	802.11ac(VHT20)	36	5180	10.79	11.00	No
		40	5200	10.14	11.00	No
		48	5240	10.63	11.00	No
	802.11ac(VHT40)	38	5190	10.75	11.00	No
		46	5230	10.42	11.00	No
	802.11ac(VHT80)	42	5210	10.50	11.00	No
	802.11ac(VHT160)	50	5250	9.83	11.00	No
	802.11ax(HE20) (SU)	36	5180	10.15	11.00	No
		40	5200	10.19	11.00	No
		48	5240	10.46	11.00	No
	802.11ax(HE40) (SU)	38	5190	10.51	11.00	No
		46	5230	10.32	11.00	No
	802.11ax(HE80) (SU)	42	5210	10.32	11.00	No
	802.11ax(HE160) (SU)	50	5250	10.17	11.00	No
	802.11ax(HE20) (RU26)	36	5180	10.54	11.00	No
		40	5200	10.26	11.00	No
		48	5240	10.55	11.00	No
	802.11ax(HE20) (RU52)	36	5180	10.81	11.00	No
		40	5200	10.28	11.00	No
		48	5240	10.25	11.00	No
	802.11ax(HE20) (RU106)	36	5180	10.59	11.00	No
		40	5200	10.49	11.00	No
		48	5240	10.46	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	10.52	11.00	No
		60	5300	10.34	11.00	No
		64	5320	10.60	11.00	No
	802.11n(HT20)	52	5260	10.71	11.00	No
		60	5300	10.72	11.00	No
		64	5320	10.46	11.00	No
	802.11n(HT40)	54	5270	10.79	11.00	No

		62	5310	10.42	11.00	No
	802.11ac(VHT20)	52	5260	10.49	11.00	No
		60	5300	10.68	11.00	No
		64	5320	10.33	11.00	No
	802.11ac(VHT40)	54	5270	10.71	11.00	No
		62	5310	10.29	11.00	No
	802.11ac(VHT80)	58	5290	10.76	11.00	Yes
	802.11ax(HE20) (SU)	52	5260	10.56	11.00	No
		60	5300	10.86	11.00	No
		64	5320	10.66	11.00	No
	802.11ax(HE40) (SU)	54	5270	10.97	11.00	No
		62	5310	10.85	11.00	No
	802.11ax(HE80) (SU)	58	5290	10.52	11.00	No
	802.11ax(HE20) (RU26)	52	5260	10.55	11.00	No
		60	5300	10.67	11.00	No
		64	5320	10.20	11.00	No
	802.11ax(HE20) (RU52)	52	5260	10.62	11.00	No
		60	5300	10.69	11.00	No
		64	5320	10.51	11.00	No
	802.11ax(HE20) (RU106)	52	5260	10.20	11.00	No
		60	5300	10.44	11.00	No
		64	5320	10.95	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.71	11.00	No
		116	5580	10.48	11.00	No
		140	5700	10.49	11.00	No
		144	5720	10.08	11.00	No
	802.11n(HT20)	100	5500	10.22	11.00	No
		116	5580	10.79	11.00	No
		140	5700	10.29	11.00	No
		144	5720	10.56	11.00	No
	802.11n(HT40)	102	5510	10.66	11.00	No
		110	5550	10.39	11.00	No
		134	5670	10.59	11.00	No
		142	5710	10.57	11.00	No
	802.11ac(VHT20)	100	5500	10.69	11.00	No
		116	5580	10.45	11.00	No
		140	5700	10.79	11.00	No
		144	5720	10.84	11.00	No
	802.11ac(VHT40)	102	5510	10.61	11.00	No
		110	5550	10.23	11.00	No
		134	5670	10.73	11.00	No
		142	5710	10.68	11.00	No

	802.11ac(VHT80)	106	5530	10.71	11.00	No
		122	5610	10.59	11.00	No
		138	5690	10.20	11.00	No
	802.11ac(VHT160)	114	5570	10.84	11.00	Yes
	802.11ax(HE20) (SU)	100	5500	10.29	11.00	No
		116	5580	10.96	11.00	No
		140	5700	10.28	11.00	No
		144	5720	10.83	11.00	No
	802.11ax(HE40) (SU)	102	5510	10.75	11.00	No
		110	5550	10.57	11.00	No
		134	5670	10.73	11.00	No
		142	5710	10.04	11.00	No
	802.11ax(HE80) (SU)	106	5530	10.69	11.00	No
		122	5610	10.85	11.00	No
		138	5690	10.90	11.00	No
	802.11ax(HE160) (SU)	114	5570	10.64	11.00	No
	802.11ax(HE20) (RU26)	100	5500	10.33	11.00	No
		116	5580	10.30	11.00	No
		140	5700	10.65	11.00	No
		144	5720	10.74	11.00	No
	802.11ax(HE20) (RU52)	100	5500	10.63	11.00	No
		116	5580	10.75	11.00	No
		140	5700	10.48	11.00	No
		144	5720	10.03	11.00	No
	802.11ax(HE20) (RU106)	100	5500	10.11	11.00	No
		116	5580	10.51	11.00	No
		140	5700	10.69	11.00	No
		144	5720	10.69	11.00	No
5.8 (5.725~5.85)	802.11a	149	5745	10.43	11.00	No
		157	5785	10.54	11.00	No
		165	5825	10.64	11.00	No
	802.11n(HT20)	149	5745	10.44	11.00	No
		157	5785	10.63	11.00	No
		165	5825	10.56	11.00	No
	802.11n(HT40)	151	5755	10.61	11.00	No
		159	5795	10.52	11.00	No
	802.11ac(VHT20)	149	5745	10.38	11.00	No
		157	5785	10.64	11.00	No
		165	5825	10.40	11.00	No
	802.11ac(VHT40)	151	5755	10.79	11.00	No
		159	5795	10.81	11.00	No
	802.11ac(VHT80)	155	5775	10.43	11.00	Yes

	802.11ax(HE20) (SU)	149	5745	9.92	11.00	No
		157	5785	10.48	11.00	No
		165	5825	10.60	11.00	No
	802.11ax(HE40) (SU)	151	5755	10.39	11.00	No
		159	5795	10.60	11.00	No
	802.11ax(HE80) (SU)	155	5775	10.49	11.00	No
	802.11ax(HE20) (RU26)	149	5745	10.76	11.00	No
		157	5785	10.15	11.00	No
		165	5825	10.94	11.00	No
	802.11ax(HE20) (RU52)	149	5745	10.44	11.00	No
		157	5785	10.01	11.00	No
		165	5825	10.72	11.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	10.71	11.00	No
		157	5785	10.65	11.00	No
		165	5825	10.52	11.00	No
	802.11n(HT20)	169	5845	10.78	11.00	No
		173	5865	10.75	11.00	No
		177	5885	10.92	11.00	No
	802.11n(HT40)	169	5845	10.83	11.00	No
		173	5865	10.71	11.00	No
		177	5885	10.67	11.00	No
	802.11ac(VHT20)	167	5835	10.56	11.00	No
		175	5875	10.41	11.00	No
		177	5885	10.56	11.00	No
	802.11ac(VHT40)	169	5845	10.89	11.00	No
		173	5865	10.59	11.00	No
		177	5885	10.56	11.00	No
	802.11ac(VHT80)	167	5835	10.71	11.00	No
		175	5875	10.61	11.00	No
	802.11ac(VHT160)	171	5855	10.70	11.00	No
	802.11ax(HE20) (SU)	163	5815	10.59	11.00	Yes
		169	5845	10.56	11.00	No
		173	5865	10.44	11.00	No
	802.11ax(HE40) (SU)	177	5885	10.60	11.00	No
		167	5835	10.77	11.00	No
		175	5875	10.27	11.00	No
	802.11ax(HE80) (SU)	171	5855	10.86	11.00	No
	802.11ax(HE160) (SU)	163	5815	10.61	11.00	No
		169	5845	10.78	11.00	No
		173	5865	10.96	11.00	No
	802.11ax(HE20) (RU26)	177	5885	9.17	11.00	No

	802.11ax(HE20) (RU52)	169	5845	10.85	11.00	No
		173	5865	10.49	11.00	No
		177	5885	10.34	11.00	No
	802.11ax(HE20) (RU106)	169	5845	10.65	11.00	No
		173	5865	10.90	11.00	No
		177	5885	10.53	11.00	No

Note: 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, each band is tested independently for SAR.

8.1.18 5G WIFI (SISO-Aux. Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	9.77	10.00	No
		40	5200	9.70	10.00	No
		48	5240	9.73	10.00	No
	802.11n(HT20)	36	5180	9.84	10.00	No
		40	5200	9.69	10.00	No
		48	5240	9.67	10.00	No
	802.11n(HT40)	38	5190	9.55	10.00	No
		46	5230	9.46	10.00	No
	802.11ac(VHT20)	36	5180	9.52	10.00	No
		40	5200	9.32	10.00	No
		48	5240	9.71	10.00	No
	802.11ac(VHT40)	38	5190	9.58	10.00	No
		46	5230	9.70	10.00	No
	802.11ac(VHT80)	42	5210	9.53	10.00	No
	802.11ac(VHT160)	50	5250	8.80	10.00	No
	802.11ax(HE20) (SU)	36	5180	9.65	10.00	No
		40	5200	9.68	10.00	No
		48	5240	9.94	10.00	No
	802.11ax(HE40) (SU)	38	5190	9.87	10.00	No
		46	5230	9.88	10.00	No
	802.11ax(HE80) (SU)	42	5210	9.48	10.00	No
	802.11ax(HE160) (SU)	50	5250	9.14	10.00	No
	802.11ax(HE20) (RU26)	36	5180	9.52	10.00	No
		40	5200	9.89	10.00	No
		48	5240	9.68	10.00	No
	802.11ax(HE20) (RU52)	36	5180	9.72	10.00	No
		40	5200	9.65	10.00	No
		48	5240	9.54	10.00	No
	802.11ax(HE20) (RU106)	36	5180	9.76	10.00	No
		40	5200	9.53	10.00	No
		48	5240	9.70	10.00	No
5.3 (5.25~5.35)	802.11a	52	5260	9.90	10.00	No
		60	5300	9.83	10.00	No
		64	5320	9.98	10.00	No
	802.11n(HT20)	52	5260	9.40	10.00	No
		60	5300	9.94	10.00	No
		64	5320	9.52	10.00	No
	802.11n(HT40)	54	5270	9.91	10.00	No

		62	5310	9.85	10.00	No
	802.11ac(VHT20)	52	5260	9.68	10.00	No
		60	5300	9.77	10.00	No
		64	5320	9.87	10.00	No
	802.11ac(VHT40)	54	5270	9.53	10.00	No
		62	5310	9.94	10.00	No
	802.11ac(VHT80)	58	5290	9.84	10.00	Yes
	802.11ax(HE20) (SU)	52	5260	9.90	10.00	No
		60	5300	9.53	10.00	No
		64	5320	9.52	10.00	No
	802.11ax(HE40) (SU)	54	5270	9.66	10.00	No
		62	5310	9.70	10.00	No
	802.11ax(HE80) (SU)	58	5290	9.77	10.00	No
	802.11ax(HE20) (RU26)	52	5260	9.54	10.00	No
		60	5300	9.30	10.00	No
		64	5320	9.13	10.00	No
	802.11ax(HE20) (RU52)	52	5260	9.71	10.00	No
		60	5300	9.50	10.00	No
		64	5320	9.76	10.00	No
	802.11ax(HE20) (RU106)	52	5260	9.97	10.00	No
		60	5300	9.52	10.00	No
		64	5320	9.79	10.00	No
5.6 (5.47~5.725)	802.11a	100	5500	9.49	10.00	No
		116	5580	9.78	10.00	No
		140	5700	9.91	10.00	No
		144	5720	9.54	10.00	No
	802.11n(HT20)	100	5500	9.84	10.00	No
		116	5580	9.62	10.00	No
		140	5700	9.78	10.00	No
		144	5720	9.97	10.00	No
	802.11n(HT40)	102	5510	9.62	10.00	No
		110	5550	9.64	10.00	No
		134	5670	9.81	10.00	No
		142	5710	9.84	10.00	No
	802.11ac(VHT20)	100	5500	9.68	10.00	No
		116	5580	9.54	10.00	No
		140	5700	9.61	10.00	No
		144	5720	9.70	10.00	No
	802.11ac(VHT40)	102	5510	9.79	10.00	No
		110	5550	9.92	10.00	No
		134	5670	9.64	10.00	No
		142	5710	9.73	10.00	No

	802.11ac(VHT80)	106	5530	9.76	10.00	No
		122	5610	9.31	10.00	No
		138	5690	9.27	10.00	No
	802.11ac(VHT160)	114	5570	9.82	10.00	Yes
	802.11ax(HE20) (SU)	100	5500	9.44	10.00	No
		116	5580	9.52	10.00	No
		140	5700	9.34	10.00	No
		144	5720	9.89	10.00	No
	802.11ax(HE40) (SU)	102	5510	9.83	10.00	No
		110	5550	9.71	10.00	No
		134	5670	9.71	10.00	No
		142	5710	9.84	10.00	No
	802.11ax(HE80) (SU)	106	5530	9.61	10.00	No
		122	5610	9.80	10.00	No
		138	5690	9.58	10.00	No
	802.11ax(HE160) (SU)	114	5570	9.88	10.00	No
	802.11ax(HE20) (RU26)	100	5500	9.44	10.00	No
		116	5580	9.65	10.00	No
		140	5700	9.82	10.00	No
		144	5720	9.54	10.00	No
	802.11ax(HE20) (RU52)	100	5500	9.36	10.00	No
		116	5580	9.55	10.00	No
		140	5700	9.50	10.00	No
		144	5720	9.41	10.00	No
	802.11ax(HE20) (RU106)	100	5500	9.70	10.00	No
		116	5580	9.48	10.00	No
		140	5700	9.68	10.00	No
		144	5720	9.80	10.00	No
5.8 (5.725~5.85)	802.11a	149	5745	9.20	10.00	No
		157	5785	9.74	10.00	No
		165	5825	9.74	10.00	No
	802.11n(HT20)	149	5745	9.97	10.00	No
		157	5785	9.98	10.00	No
		165	5825	9.61	10.00	No
	802.11n(HT40)	151	5755	9.79	10.00	No
		159	5795	9.99	10.00	No
	802.11ac(VHT20)	149	5745	9.54	10.00	No
		157	5785	9.78	10.00	No
		165	5825	9.48	10.00	No
	802.11ac(VHT40)	151	5755	9.82	10.00	No
		159	5795	9.87	10.00	No
	802.11ac(VHT80)	155	5775	9.60	10.00	Yes

	802.11ax(HE20) (SU)	149	5745	9.53	10.00	No
		157	5785	9.42	10.00	No
		165	5825	9.54	10.00	No
	802.11ax(HE40) (SU)	151	5755	9.37	10.00	No
		159	5795	9.86	10.00	No
	802.11ax(HE80) (SU)	155	5775	9.32	10.00	No
	802.11ax(HE20) (RU26)	149	5745	10.00	10.00	No
		157	5785	9.75	10.00	No
		165	5825	9.93	10.00	No
	802.11ax(HE20) (RU52)	149	5745	9.92	10.00	No
		157	5785	9.65	10.00	No
		165	5825	9.05	10.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	9.89	10.00	No
		157	5785	9.32	10.00	No
		165	5825	9.84	10.00	No
	802.11n(HT20)	169	5845	9.88	10.00	No
		173	5865	9.74	10.00	No
		177	5885	9.70	10.00	No
	802.11n(HT40)	169	5845	9.97	10.00	No
		173	5865	9.51	10.00	No
		177	5885	9.75	10.00	No
	802.11ac(VHT20)	167	5835	9.44	10.00	No
		175	5875	9.65	10.00	No
		169	5845	9.38	10.00	No
	802.11ac(VHT40)	173	5865	9.47	10.00	No
		177	5885	9.65	10.00	No
		167	5835	9.24	10.00	No
	802.11ac(VHT80)	175	5875	9.51	10.00	No
		171	5855	9.65	10.00	No
		163	5815	9.77	10.00	Yes
	802.11ax(HE20) (SU)	169	5845	9.85	10.00	No
		173	5865	9.71	10.00	No
		177	5885	9.51	10.00	No
	802.11ax(HE40) (SU)	167	5835	9.66	10.00	No
		175	5875	9.87	10.00	No
	802.11ax(HE80) (SU)	171	5855	9.67	10.00	No
	802.11ax(HE160) (SU)	163	5815	9.87	10.00	No
	802.11ax(HE20) (RU26)	169	5845	9.72	10.00	No
		173	5865	9.90	10.00	No
		177	5885	8.59	10.00	No

	802.11ax(HE20) (RU52)	169	5845	9.43	10.00	No
		173	5865	9.38	10.00	No
		177	5885	9.83	10.00	No
	802.11ax(HE20) (RU106)	169	5845	9.66	10.00	No
		173	5865	9.75	10.00	No
		177	5885	9.93	10.00	No

Note: 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, each band is tested independently for SAR.

8.1.19 5G WIFI (MIMO-Main Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.58	11.00	No
		40	5200	10.87	11.00	No
		48	5240	10.87	11.00	No
	802.11n(HT20)	36	5180	10.56	11.00	No
		40	5200	10.54	11.00	No
		48	5240	10.94	11.00	No
	802.11n(HT40)	38	5190	10.41	11.00	No
		46	5230	10.78	11.00	No
	802.11ac(VHT20)	36	5180	10.71	11.00	No
		40	5200	10.48	11.00	No
		48	5240	10.70	11.00	No
	802.11ac(VHT40)	38	5190	10.62	11.00	No
		46	5230	10.66	11.00	No
	802.11ac(VHT80)	42	5210	10.86	11.00	No
	802.11ac(VHT160)	50	5250	8.81	9.50	No
	802.11ax(HE20) (SU)	36	5180	10.67	11.00	No
		40	5200	10.81	11.00	No
		48	5240	10.68	11.00	No
	802.11ax(HE40) (SU)	38	5190	10.59	11.00	No
		46	5230	10.68	11.00	No
	802.11ax(HE80) (SU)	42	5210	10.69	11.00	No
	802.11ax(HE160) (SU)	50	5250	9.00	10.00	No
	802.11ax(HE20) (RU26)	36	5180	8.88	10.00	No
		40	5200	9.09	10.00	No
		48	5240	9.09	10.00	No
	802.11ax(HE20) (RU52)	36	5180	10.30	11.00	No
		40	5200	10.74	11.00	No
		48	5240	10.85	11.00	No
	802.11ax(HE20) (RU106)	36	5180	10.60	11.00	No
		40	5200	10.80	11.00	No
		48	5240	10.61	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	10.60	11.00	No
		60	5300	10.29	11.00	No
		64	5320	10.56	11.00	No
	802.11n(HT20)	52	5260	10.90	11.00	No
		60	5300	10.13	11.00	No
		64	5320	10.53	11.00	No
	802.11n(HT40)	54	5270	10.57	11.00	No

		62	5310	9.61	11.00	No
	802.11ac(VHT20)	52	5260	10.46	11.00	No
		60	5300	10.52	11.00	No
		64	5320	10.93	11.00	No
	802.11ac(VHT40)	54	5270	10.82	11.00	No
		62	5310	10.80	11.00	No
	802.11ac(VHT80)	58	5290	10.43	11.00	No
	802.11ax(HE20) (SU)	52	5260	10.98	11.00	No
		60	5300	10.88	11.00	No
		64	5320	10.53	11.00	No
	802.11ax(HE40) (SU)	54	5270	10.77	11.00	No
		62	5310	10.66	11.00	No
	802.11ax(HE80) (SU)	58	5290	9.85	11.00	No
	802.11ax(HE20) (RU26)	52	5260	8.53	9.50	No
		60	5300	7.93	9.50	No
		64	5320	8.51	9.50	No
	802.11ax(HE20) (RU52)	52	5260	10.36	11.00	No
		60	5300	10.27	11.00	No
		64	5320	10.28	11.00	No
	802.11ax(HE20) (RU106)	52	5260	10.81	11.00	No
		60	5300	10.26	11.00	No
		64	5320	10.83	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.89	11.00	No
		116	5580	10.92	11.00	No
		140	5700	9.87	11.00	No
		144	5720	10.93	11.00	No
	802.11n(HT20)	100	5500	10.91	11.00	No
		116	5580	10.68	11.00	No
		140	5700	10.27	11.00	No
		144	5720	10.55	11.00	No
	802.11n(HT40)	102	5510	9.84	11.00	No
		110	5550	10.32	11.00	No
		134	5670	9.86	11.00	No
		142	5710	10.61	11.00	No
	802.11ac(VHT20)	100	5500	10.47	11.00	No
		116	5580	10.40	11.00	No
		140	5700	10.64	11.00	No
		144	5720	10.64	11.00	No
	802.11ac(VHT40)	102	5510	10.02	11.00	No
		110	5550	10.75	11.00	No
		134	5670	9.80	11.00	No
		142	5710	10.89	11.00	No

	802.11ac(VHT80)	106	5530	10.52	11.00	No
		122	5610	10.78	11.00	No
		138	5690	10.40	11.00	No
	802.11ac(VHT160)	114	5570	8.76	10.00	No
	802.11ax(HE20) (SU)	100	5500	10.65	11.00	No
		116	5580	10.57	11.00	No
		140	5700	9.91	11.00	No
		144	5720	10.65	11.00	No
	802.11ax(HE40) (SU)	102	5510	10.53	11.00	No
		110	5550	10.87	11.00	No
		134	5670	10.20	11.00	No
		142	5710	10.81	11.00	No
	802.11ax(HE80) (SU)	106	5530	10.46	11.00	No
		122	5610	10.43	11.00	No
		138	5690	10.69	11.00	No
	802.11ax(HE160) (SU)	114	5570	9.21	10.00	No
	802.11ax(HE20) (RU26)	100	5500	9.13	10.00	No
		116	5580	9.36	10.00	No
		140	5700	8.84	10.00	No
		144	5720	9.51	10.00	No
	802.11ax(HE20) (RU52)	100	5500	10.50	11.00	No
		116	5580	10.46	11.00	No
		140	5700	9.93	11.00	No
		144	5720	10.86	11.00	No
	802.11ax(HE20) (RU106)	100	5500	10.15	11.00	No
		116	5580	10.50	11.00	No
		140	5700	10.60	11.00	No
		144	5720	10.52	11.00	No
5.8 (5.725~5.85)	802.11a	149	5745	10.51	11.00	No
		157	5785	10.38	11.00	No
		165	5825	10.56	11.00	No
	802.11n(HT20)	149	5745	10.81	11.00	No
		157	5785	10.26	11.00	No
		165	5825	10.13	11.00	No
	802.11n(HT40)	151	5755	10.86	11.00	No
		159	5795	10.60	11.00	No
	802.11ac(VHT20)	149	5745	10.92	11.00	No
		157	5785	10.40	11.00	No
		165	5825	10.62	11.00	No
	802.11ac(VHT40)	151	5755	10.96	11.00	No
		159	5795	10.52	11.00	No
	802.11ac(VHT80)	155	5775	10.84	11.00	No

	802.11ax(HE20) (SU)	149	5745	10.75	11.00	No
		157	5785	10.82	11.00	No
		165	5825	10.49	11.00	No
	802.11ax(HE40) (SU)	151	5755	10.82	11.00	No
		159	5795	10.41	11.00	No
	802.11ax(HE80) (SU)	155	5775	10.64	11.00	No
	802.11ax(HE20) (RU26)	149	5745	10.67	11.00	No
		157	5785	10.55	11.00	No
		165	5825	10.06	11.00	No
	802.11ax(HE20) (RU52)	149	5745	10.63	11.00	No
		157	5785	10.83	11.00	No
		165	5825	10.96	11.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	10.25	11.00	No
		157	5785	10.92	11.00	No
		165	5825	10.57	11.00	No
	802.11n(HT20)	169	5845	10.58	11.00	No
		173	5865	10.63	11.00	No
		177	5885	10.21	11.00	No
	802.11n(HT40)	169	5845	10.53	11.00	No
		173	5865	10.83	11.00	No
		177	5885	10.34	11.00	No
	802.11ac(VHT20)	167	5835	10.44	11.00	No
		175	5875	10.60	11.00	No
		177	5885	10.70	11.00	No
	802.11ac(VHT40)	169	5845	10.32	11.00	No
		173	5865	10.76	11.00	No
		177	5885	10.70	11.00	No
	802.11ac(VHT80)	167	5835	10.90	11.00	No
		175	5875	10.80	11.00	No
	802.11ac(VHT160)	171	5855	10.95	11.00	No
	802.11ax(HE20) (SU)	163	5815	10.35	11.00	No
		169	5845	10.34	11.00	No
		173	5865	10.58	11.00	No
	802.11ax(HE40) (SU)	177	5885	10.58	11.00	No
		167	5835	10.64	11.00	No
	802.11ax(HE80) (SU)	175	5875	10.93	11.00	No
		171	5855	10.92	11.00	No
	802.11ax(HE160) (SU)	163	5815	10.41	11.00	No
	802.11ax(HE20) (RU26)	169	5845	6.18	7.50	No
		173	5865	6.58	7.50	No
		177	5885	3.38	4.00	No

	802.11ax(HE20) (RU52)	169	5845	9.72	10.00	No
		173	5865	9.90	10.00	No
		177	5885	8.50	9.50	No
	802.11ax(HE20) (RU106)	169	5845	10.25	11.00	No
		173	5865	10.03	11.00	No
		177	5885	10.18	11.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.20 5G WIFI (MIMO-Aux. Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	9.46	10.00	No
		40	5200	9.45	10.00	No
		48	5240	9.54	10.00	No
	802.11n(HT20)	36	5180	9.44	10.00	No
		40	5200	9.83	10.00	No
		48	5240	9.63	10.00	No
	802.11n(HT40)	38	5190	9.42	10.00	No
		46	5230	9.52	10.00	No
	802.11ac(VHT20)	36	5180	9.56	10.00	No
		40	5200	9.47	10.00	No
		48	5240	9.71	10.00	No
	802.11ac(VHT40)	38	5190	9.68	10.00	No
		46	5230	9.59	10.00	No
	802.11ac(VHT80)	42	5210	9.75	10.00	No
	802.11ac(VHT160)	50	5250	8.98	9.50	No
	802.11ax(HE20) (SU)	36	5180	9.73	10.00	No
		40	5200	9.57	10.00	No
		48	5240	9.41	10.00	No
	802.11ax(HE40) (SU)	38	5190	9.87	10.00	No
		46	5230	9.45	10.00	No
	802.11ax(HE80) (SU)	42	5210	9.68	10.00	No
	802.11ax(HE160) (SU)	50	5250	9.56	10.00	No
	802.11ax(HE20) (RU26)	36	5180	9.08	10.00	No
		40	5200	9.12	10.00	No
		48	5240	8.90	10.00	No
	802.11ax(HE20) (RU52)	36	5180	9.83	10.00	No
		40	5200	9.38	10.00	No
		48	5240	9.78	10.00	No
	802.11ax(HE20) (RU106)	36	5180	9.43	10.00	No
		40	5200	9.76	10.00	No
		48	5240	9.48	10.00	No
5.3 (5.25~5.35)	802.11a	52	5260	9.91	10.00	No
		60	5300	9.74	10.00	No
		64	5320	9.84	10.00	No
	802.11n(HT20)	52	5260	9.37	10.00	No
		60	5300	9.72	10.00	No
		64	5320	9.76	10.00	No
	802.11n(HT40)	54	5270	9.74	10.00	No

		62	5310	9.03	10.00	No
	802.11ac(VHT20)	52	5260	9.64	10.00	No
		60	5300	9.29	10.00	No
		64	5320	9.66	10.00	No
	802.11ac(VHT40)	54	5270	9.83	10.00	No
		62	5310	9.72	10.00	No
	802.11ac(VHT80)	58	5290	8.63	10.00	No
	802.11ax(HE20) (SU)	52	5260	9.82	10.00	No
		60	5300	9.27	10.00	No
		64	5320	9.64	10.00	No
	802.11ax(HE40) (SU)	54	5270	9.41	10.00	No
		62	5310	9.78	10.00	No
	802.11ax(HE80) (SU)	58	5290	9.09	10.00	No
	802.11ax(HE20) (RU26)	52	5260	9.02	9.50	No
		60	5300	8.70	9.50	No
		64	5320	8.80	9.50	No
	802.11ax(HE20) (RU52)	52	5260	9.39	10.00	No
		60	5300	9.32	10.00	No
		64	5320	9.48	10.00	No
	802.11ax(HE20) (RU106)	52	5260	9.53	10.00	No
		60	5300	9.65	10.00	No
		64	5320	9.64	10.00	No
5.6 (5.47~5.725)	802.11a	100	5500	9.68	10.00	No
		116	5580	9.72	10.00	No
		140	5700	9.02	10.00	No
		144	5720	9.63	10.00	No
	802.11n(HT20)	100	5500	9.58	10.00	No
		116	5580	9.66	10.00	No
		140	5700	9.54	10.00	No
		144	5720	9.60	10.00	No
	802.11n(HT40)	102	5510	9.33	10.00	No
		110	5550	9.54	10.00	No
		134	5670	9.17	10.00	No
		142	5710	9.79	10.00	No
	802.11ac(VHT20)	100	5500	9.44	10.00	No
		116	5580	9.42	10.00	No
		140	5700	9.40	10.00	No
		144	5720	9.61	10.00	No
	802.11ac(VHT40)	102	5510	9.46	10.00	No
		110	5550	9.38	10.00	No
		134	5670	9.45	10.00	No
		142	5710	9.70	10.00	No

	802.11ac(VHT80)	106	5530	9.82	10.00	No
		122	5610	9.41	10.00	No
		138	5690	9.53	10.00	No
	802.11ac(VHT160)	114	5570	9.93	10.00	No
	802.11ax(HE20) (SU)	100	5500	9.59	10.00	No
		116	5580	9.77	10.00	No
		140	5700	9.36	10.00	No
		144	5720	9.76	10.00	No
	802.11ax(HE40) (SU)	102	5510	9.35	10.00	No
		110	5550	9.76	10.00	No
		134	5670	9.58	10.00	No
		142	5710	9.71	10.00	No
	802.11ax(HE80) (SU)	106	5530	9.60	10.00	No
		122	5610	9.91	10.00	No
		138	5690	9.98	10.00	No
	802.11ax(HE160) (SU)	114	5570	9.82	10.00	No
	802.11ax(HE20) (RU26)	100	5500	9.62	10.00	No
		116	5580	9.09	10.00	No
		140	5700	9.06	10.00	No
		144	5720	9.96	10.00	No
	802.11ax(HE20) (RU52)	100	5500	9.83	10.00	No
		116	5580	9.13	10.00	No
		140	5700	9.03	10.00	No
		144	5720	9.95	10.00	No
	802.11ax(HE20) (RU106)	100	5500	9.42	10.00	No
		116	5580	9.91	10.00	No
		140	5700	9.69	10.00	No
		144	5720	9.33	10.00	No
5.8 (5.725~5.85)	802.11a	149	5745	9.88	10.00	No
		157	5785	9.77	10.00	No
		165	5825	9.87	10.00	No
	802.11n(HT20)	149	5745	9.44	10.00	No
		157	5785	9.40	10.00	No
		165	5825	9.74	10.00	No
	802.11n(HT40)	151	5755	9.60	10.00	No
		159	5795	9.70	10.00	No
	802.11ac(VHT20)	149	5745	9.45	10.00	No
		157	5785	9.52	10.00	No
		165	5825	9.36	10.00	No
	802.11ac(VHT40)	151	5755	9.26	10.00	No
		159	5795	9.32	10.00	No
	802.11ac(VHT80)	155	5775	9.54	10.00	No

	802.11ax(HE20) (SU)	149	5745	8.85	10.00	No
		157	5785	9.43	10.00	No
		165	5825	9.28	10.00	No
	802.11ax(HE40) (SU)	151	5755	9.36	10.00	No
		159	5795	9.62	10.00	No
	802.11ax(HE80) (SU)	155	5775	9.83	10.00	No
	802.11ax(HE20) (RU26)	149	5745	9.54	10.00	No
		157	5785	9.46	10.00	No
		165	5825	9.60	10.00	No
	802.11ax(HE20) (RU52)	149	5745	9.62	10.00	No
		157	5785	9.74	10.00	No
		165	5825	9.91	10.00	No
5.9 (5.805~5.89 5)	802.11a	149	5745	10.00	10.00	No
		157	5785	9.93	10.00	No
		165	5825	9.49	10.00	No
	802.11n(HT20)	169	5845	9.61	10.00	No
		173	5865	9.66	10.00	No
		177	5885	9.63	10.00	No
	802.11n(HT40)	169	5845	9.74	10.00	No
		173	5865	9.83	10.00	No
		177	5885	9.17	10.00	No
	802.11ac(VHT20)	167	5835	9.43	10.00	No
		175	5875	9.79	10.00	No
		169	5845	9.55	10.00	No
	802.11ac(VHT40)	173	5865	9.82	10.00	No
		177	5885	9.35	10.00	No
		167	5835	9.96	10.00	No
	802.11ac(VHT80)	175	5875	9.68	10.00	No
		171	5855	9.79	10.00	No
		163	5815	9.68	10.00	No
	802.11ax(HE20) (SU)	169	5845	9.62	10.00	No
		173	5865	9.83	10.00	No
		177	5885	9.70	10.00	No
	802.11ax(HE40) (SU)	167	5835	9.76	10.00	No
		175	5875	9.96	10.00	No
	802.11ax(HE80) (SU)	171	5855	9.82	10.00	No
	802.11ax(HE160) (SU)	163	5815	9.57	10.00	No
	802.11ax(HE20) (RU26)	169	5845	6.22	7.50	No
		173	5865	6.40	7.50	No
		177	5885	3.43	4.00	No

	802.11ax(HE20) (RU52)	169	5845	9.16	10.00	No
		173	5865	8.99	10.00	No
		177	5885	9.31	9.50	No
	802.11ax(HE20) (RU106)	169	5845	9.79	10.00	No
		173	5865	9.28	10.00	No
		177	5885	9.27	10.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.21 6G WIFI (SISO-Main Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	6.77	7.50	No
		49	6195	7.01	7.50	No
		93	6415	6.79	7.50	No
		97	6435	6.55	7.50	No
		105	6475	7.03	7.50	No
		113	6515	6.76	7.50	No
		117	6535	6.62	7.50	No
		149	6695	6.88	7.50	No
		181	6855	6.85	7.50	No
		185	6875	6.87	7.50	No
		189	6895	6.87	7.50	No
		209	6995	6.37	7.50	No
		229	7095	6.99	7.50	No
		233	7115	7.29	7.50	No
	802.11ax(HE40) (SU)	3	5965	9.83	10.50	No
		51	6205	9.78	10.50	No
		91	6405	10.06	10.50	No
		99	6445	9.95	10.50	No
		107	6485	9.87	10.50	No
		115	6525	9.65	10.50	No
		123	6565	9.60	10.50	No
		147	6685	9.50	10.50	No
		179	6845	9.46	10.50	No
		187	6885	9.65	10.50	No
		195	6925	10.17	10.50	No
		211	7005	9.46	10.50	No
		227	7085	9.70	10.50	No
	802.11ax(HE80) (SU)	7	5985	9.60	10.50	No
		55	6225	9.89	10.50	No
		87	6385	10.06	10.50	No
		103	6465	9.83	10.50	No
		119	6545	10.01	10.50	No
		135	6625	9.89	10.50	No
		151	6705	9.96	10.50	No
		167	6785	10.32	10.50	No
		183	6865	10.08	10.50	No
		199	6945	10.08	10.50	No
		215	7025	9.69	10.50	No
	802.11ax(HE160)	15	6025	9.99	10.50	Yes

	(SU)	47	6185	10.48	10.50	Yes
		79	6345	9.84	10.50	Yes
		111	6505	10.29	10.50	Yes
		143	6665	10.16	10.50	Yes
		175	6825	10.08	10.50	Yes
		207	6985	9.90	10.50	Yes
	802.11ax(HE20) (RU26)	1	5955	-2.74	-2.00	No
		49	6195	-3.16	-2.00	No
		93	6415	-2.54	-2.00	No
		97	6435	-2.65	-2.00	No
		105	6475	-3.33	-2.00	No
		113	6515	-2.75	-2.00	No
		117	6535	-3.43	-2.00	No
		149	6695	-2.80	-2.00	No
		181	6855	-3.02	-2.00	No
		185	6875	-2.60	-2.00	No
		189	6895	-2.54	-2.00	No
		209	6995	-2.48	-2.00	No
		229	7095	-1.65	-1.00	No
		233	7115	-1.60	-1.00	No
	802.11ax(HE20) (RU52)	1	5955	0.72	2.00	No
		49	6195	0.12	2.00	No
		93	6415	0.72	2.00	No
		97	6435	0.58	2.00	No
		105	6475	0.39	2.00	No
		113	6515	0.09	2.00	No
		117	6535	0.43	2.00	No
		149	6695	0.33	2.00	No
		181	6855	0.52	2.00	No
		185	6875	0.58	2.00	No
		189	6895	0.71	2.00	No
		209	6995	0.82	2.00	No
		229	7095	1.23	2.00	No
		233	7115	1.87	2.50	No
	802.11ax(HE20) (RU106)	1	5955	3.37	4.00	No
		49	6195	3.34	4.00	No
		93	6415	2.91	4.00	No
		97	6435	2.93	4.00	No
		105	6475	3.38	4.00	No
		113	6515	3.25	4.00	No
		117	6535	3.15	4.00	No
		149	6695	3.55	4.00	No
		181	6855	3.04	4.00	No

		185	6875	3.13	4.00	No
		189	6895	3.18	4.00	No
		209	6995	3.46	4.00	No
		229	7095	4.36	5.00	No
		233	7115	4.51	5.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.22 6G WIFI (SISO-Aux. Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	6.99	7.50	No
		49	6195	6.54	7.50	No
		93	6415	6.68	7.50	No
		97	6435	6.58	7.50	No
		105	6475	7.03	7.50	No
		113	6515	6.82	7.50	No
		117	6535	6.85	7.50	No
		149	6695	7.15	7.50	No
		181	6855	6.64	7.50	No
		185	6875	6.81	7.50	No
		189	6895	6.87	7.50	No
		209	6995	6.04	7.50	No
		229	7095	7.18	7.50	No
		233	7115	7.03	7.50	No
	802.11ax(HE40) (SU)	3	5965	9.98	10.50	No
		51	6205	9.79	10.50	No
		91	6405	9.99	10.50	No
		99	6445	9.90	10.50	No
		107	6485	9.81	10.50	No
		115	6525	10.01	10.50	No
		123	6565	10.08	10.50	No
		147	6685	9.72	10.50	No
		179	6845	9.32	10.50	No
		187	6885	9.75	10.50	No
		195	6925	10.20	10.50	No
		211	7005	9.26	10.50	No
		227	7085	10.24	10.50	No
	802.11ax(HE80) (SU)	7	5985	9.70	10.50	No
		55	6225	9.89	10.50	No
		87	6385	9.75	10.50	No
		103	6465	9.92	10.50	No
		119	6545	9.80	10.50	No
		135	6625	9.85	10.50	No
		151	6705	10.43	10.50	No
		167	6785	10.30	10.50	No
		183	6865	10.33	10.50	No
		199	6945	10.39	10.50	No
		215	7025	9.59	10.50	No
	802.11ax(HE160)	15	6025	9.85	10.50	Yes

	(SU)	47	6185	10.42	10.50	Yes
		79	6345	10.34	10.50	Yes
		111	6505	10.01	10.50	Yes
		143	6665	10.09	10.50	Yes
		175	6825	9.83	10.50	Yes
		207	6985	10.10	10.50	Yes
	802.11ax(HE20) (RU26)	1	5955	-2.73	-2.00	No
		49	6195	-2.98	-2.00	No
		93	6415	-3.17	-2.00	No
		97	6435	-3.09	-2.00	No
		105	6475	-3.11	-2.00	No
		113	6515	-2.47	-2.00	No
		117	6535	-3.23	-2.00	No
		149	6695	-3.00	-2.00	No
		181	6855	-3.07	-2.00	No
		185	6875	-2.69	-2.00	No
		189	6895	-2.40	-2.00	No
		209	6995	-2.96	-2.00	No
		229	7095	-2.00	-1.00	No
		233	7115	-1.82	-1.00	No
	802.11ax(HE20) (RU52)	1	5955	0.39	2.00	No
		49	6195	0.57	2.00	No
		93	6415	0.33	2.00	No
		97	6435	0.44	2.00	No
		105	6475	0.50	2.00	No
		113	6515	0.29	2.00	No
		117	6535	0.58	2.00	No
		149	6695	0.33	2.00	No
		181	6855	0.57	2.00	No
		185	6875	0.11	2.00	No
		189	6895	0.60	2.00	No
		209	6995	0.34	2.00	No
		229	7095	1.22	2.00	No
		233	7115	1.80	2.50	No
	802.11ax(HE20) (RU106)	1	5955	3.12	4.00	No
		49	6195	3.06	4.00	No
		93	6415	2.60	4.00	No
		97	6435	2.76	4.00	No
		105	6475	3.27	4.00	No
		113	6515	3.35	4.00	No
		117	6535	3.34	4.00	No
		149	6695	3.43	4.00	No
		181	6855	3.30	4.00	No

		185	6875	3.15	4.00	No
		189	6895	3.15	4.00	No
		209	6995	2.90	4.00	No
		229	7095	3.97	5.00	No
		233	7115	4.68	5.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.23 6G WIFI (MIMO-Main Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	0.61	1.00	No
		49	6195	0.04	1.00	No
		93	6415	0.12	1.00	No
		97	6435	0.36	1.00	No
		105	6475	0.06	1.00	No
		113	6515	0.74	1.00	No
		117	6535	0.74	1.00	No
		149	6695	0.62	1.00	No
		181	6855	0.46	1.00	No
		185	6875	0.33	1.00	No
		189	6895	0.18	1.00	No
		209	6995	0.39	1.00	No
		229	7095	1.14	2.00	No
		233	7115	1.28	2.00	No
	802.11ax(HE40) (SU)	3	5965	3.88	5.00	No
		51	6205	3.87	5.00	No
		91	6405	3.91	5.00	No
		99	6445	3.76	5.00	No
		107	6485	3.63	5.00	No
		115	6525	3.49	5.00	No
		123	6565	3.99	5.00	No
		147	6685	3.51	5.00	No
		179	6845	3.81	5.00	No
		187	6885	3.33	5.00	No
		195	6925	3.97	5.00	No
		211	7005	3.74	5.00	No
		227	7085	3.87	5.00	No
	802.11ax(HE80) (SU)	7	5985	6.92	7.50	No
		55	6225	6.01	7.50	No
		87	6385	6.62	7.50	No
		103	6465	6.57	7.50	No
		119	6545	6.21	7.50	No
		135	6625	6.34	7.50	No
		151	6705	6.22	7.50	No
		167	6785	6.22	7.50	No
		183	6865	5.91	7.50	No
		199	6945	6.69	7.50	No
		215	7025	6.72	7.50	No
	802.11ax(HE160)	15	6025	8.95	10.00	No

	(SU)	47	6185	8.36	10.00	No
		79	6345	8.98	10.00	No
		111	6505	9.13	10.00	No
		143	6665	8.69	10.00	No
		175	6825	8.65	10.00	No
		207	6985	4.59	6.00	No
	802.11ax(HE20) (RU26)	1	5955	-8.66	-8.00	No
		49	6195	-8.89	-8.00	No
		93	6415	-9.02	-8.00	No
		97	6435	-8.57	-8.00	No
		105	6475	-8.81	-8.00	No
		113	6515	-9.01	-8.00	No
		117	6535	-8.63	-8.00	No
		149	6695	-8.10	-8.00	No
		181	6855	-8.93	-8.00	No
		185	6875	-8.51	-8.00	No
		189	6895	-8.07	-8.00	No
		209	6995	-8.15	-8.00	No
		229	7095	-7.44	-6.00	No
		233	7115	-7.35	-6.00	No
	802.11ax(HE20) (RU52)	1	5955	-5.88	-5.00	No
		49	6195	-5.73	-5.00	No
		93	6415	-5.87	-5.00	No
		97	6435	-5.61	-5.00	No
		105	6475	-5.48	-5.00	No
		113	6515	-5.26	-5.00	No
		117	6535	-6.08	-5.00	No
		149	6695	-5.66	-5.00	No
		181	6855	-5.55	-5.00	No
		185	6875	-5.59	-5.00	No
		189	6895	-5.55	-5.00	No
		209	6995	-4.93	-4.00	No
		229	7095	-3.67	-3.00	No
		233	7115	-4.34	-3.00	No
	802.11ax(HE20) (RU106)	1	5955	-2.56	-2.00	No
		49	6195	-2.42	-2.00	No
		93	6415	-2.54	-2.00	No
		97	6435	-2.43	-2.00	No
		105	6475	-2.75	-2.00	No
		113	6515	-2.93	-2.00	No
		117	6535	-2.85	-2.00	No
		149	6695	-2.85	-2.00	No
		181	6855	-3.14	-2.00	No

		185	6875	-2.54	-2.00	No
		189	6895	-2.42	-2.00	No
		209	6995	-2.59	-2.00	No
		229	7095	-1.62	-1.00	No
		233	7115	-1.41	-1.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.1.24 6G WIFI (MIMO-Aux. Antenna) (Tablet)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
6 (5.925~7.125)	802.11ax(HE20) (SU)	1	5955	0.13	1.50	No
		49	6195	0.58	1.50	No
		93	6415	0.86	1.50	No
		97	6435	0.67	1.50	No
		105	6475	0.79	1.50	No
		113	6515	0.98	1.50	No
		117	6535	1.25	1.50	No
		149	6695	0.54	1.50	No
		181	6855	0.36	1.50	No
		185	6875	0.95	1.50	No
		189	6895	0.67	1.50	No
		209	6995	0.63	1.50	No
		229	7095	1.04	2.00	No
		233	7115	1.38	2.00	No
	802.11ax(HE40) (SU)	3	5965	3.58	5.00	No
		51	6205	3.74	5.00	No
		91	6405	3.92	5.00	No
		99	6445	4.23	5.00	No
		107	6485	3.82	5.00	No
		115	6525	3.87	5.00	No
		123	6565	4.07	5.00	No
		147	6685	3.66	5.00	No
		179	6845	3.69	5.00	No
		187	6885	3.53	5.00	No
		195	6925	4.11	5.00	No
		211	7005	3.95	5.00	No
		227	7085	4.05	5.00	No
	802.11ax(HE80) (SU)	7	5985	6.78	7.50	No
		55	6225	6.29	7.50	No
		87	6385	6.55	7.50	No
		103	6465	6.34	7.50	No
		119	6545	6.43	7.50	No
		135	6625	6.04	7.50	No
		151	6705	5.80	7.50	No
		167	6785	6.17	7.50	No
		183	6865	6.40	7.50	No
		199	6945	6.28	7.50	No
		215	7025	7.01	7.50	No
	802.11ax(HE160)	15	6025	9.05	10.00	No

	(SU)	47	6185	8.18	10.00	No
		79	6345	8.85	10.00	No
		111	6505	8.97	10.00	No
		143	6665	8.66	10.00	No
		175	6825	8.79	10.00	No
		207	6985	4.55	6.00	No
	802.11ax(HE20) (RU26)	1	5955	-8.75	-8.00	No
		49	6195	-8.95	-8.00	No
		93	6415	-8.39	-8.00	No
		97	6435	-8.81	-8.00	No
		105	6475	-9.14	-8.00	No
		113	6515	-8.85	-8.00	No
		117	6535	-8.71	-8.00	No
		149	6695	-8.18	-8.00	No
		181	6855	-8.37	-8.00	No
		185	6875	-8.63	-8.00	No
		189	6895	-8.31	-8.00	No
		209	6995	-8.20	-8.00	No
		229	7095	-7.31	-6.00	No
		233	7115	-7.14	-6.00	No
	802.11ax(HE20) (RU52)	1	5955	-5.15	-5.00	No
		49	6195	-5.51	-5.00	No
		93	6415	-5.78	-5.00	No
		97	6435	-5.13	-5.00	No
		105	6475	-5.29	-5.00	No
		113	6515	-5.43	-5.00	No
		117	6535	-5.19	-5.00	No
		149	6695	-5.10	-5.00	No
		181	6855	-5.12	-5.00	No
		185	6875	-5.25	-5.00	No
		189	6895	-5.44	-5.00	No
		209	6995	-5.28	-4.00	No
		229	7095	-3.96	-3.00	No
		233	7115	-3.88	-3.00	No
	802.11ax(HE20) (RU106)	1	5955	-2.76	-2.00	No
		49	6195	-3.04	-2.00	No
		93	6415	-2.48	-2.00	No
		97	6435	-2.94	-2.00	No
		105	6475	-2.74	-2.00	No
		113	6515	-2.73	-2.00	No
		117	6535	-2.63	-2.00	No
		149	6695	-2.60	-2.00	No
		181	6855	-2.87	-2.00	No

		185	6875	-2.73	-2.00	No
		189	6895	-2.57	-2.00	No
		209	6995	-2.24	-2.00	No
		229	7095	-1.17	-1.00	No
		233	7115	-1.27	-1.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

8.2 Bluetooth

8.2.1 Bluetooth (Aux. Antenna)

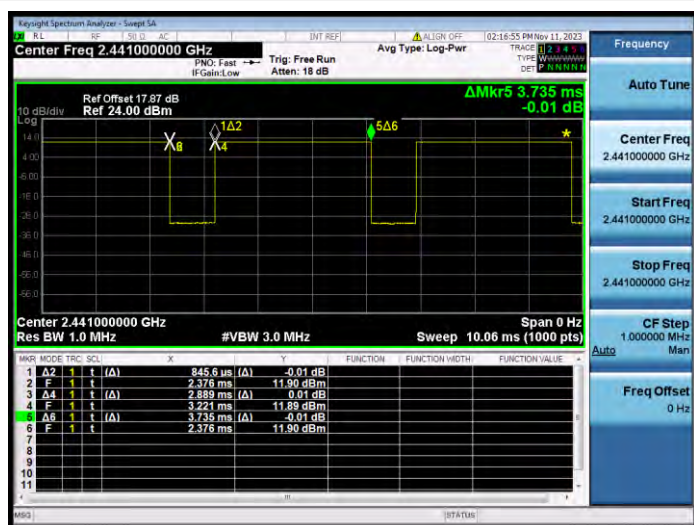
Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	7.31	7.41	7.33	7.03	7.39	7.37
Tune-Up Limit (dBm)	8.00	8.00	8.00	8.00	8.00	8.00
SAR Test Require	Yes	Yes	Yes	No	No	No
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	7.09	7.13	7.17	/	/	/
Tune-Up Limit (dBm)	8.00	8.00	8.00	/	/	/
SAR Test Require	No	No	No	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Average Power (dBm)	7.10	7.02	7.35	7.09	7.38	7.09
Tune-Up Limit (dBm)	8.00	8.00	8.00	8.00	8.00	8.00
SAR Test Require	No	No	No	No	No	No

Note: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 77.36% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

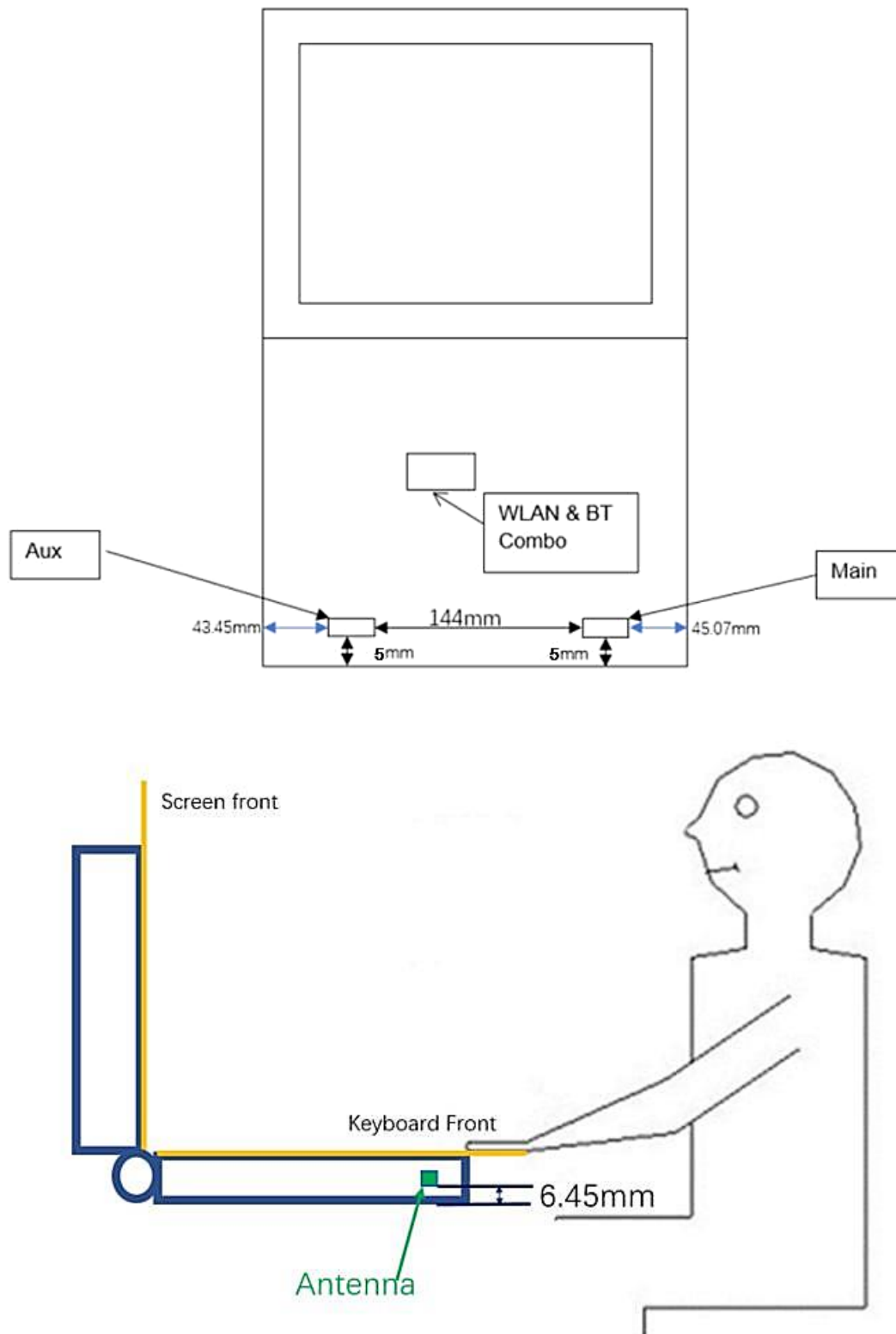
Bluetooth-GFSK



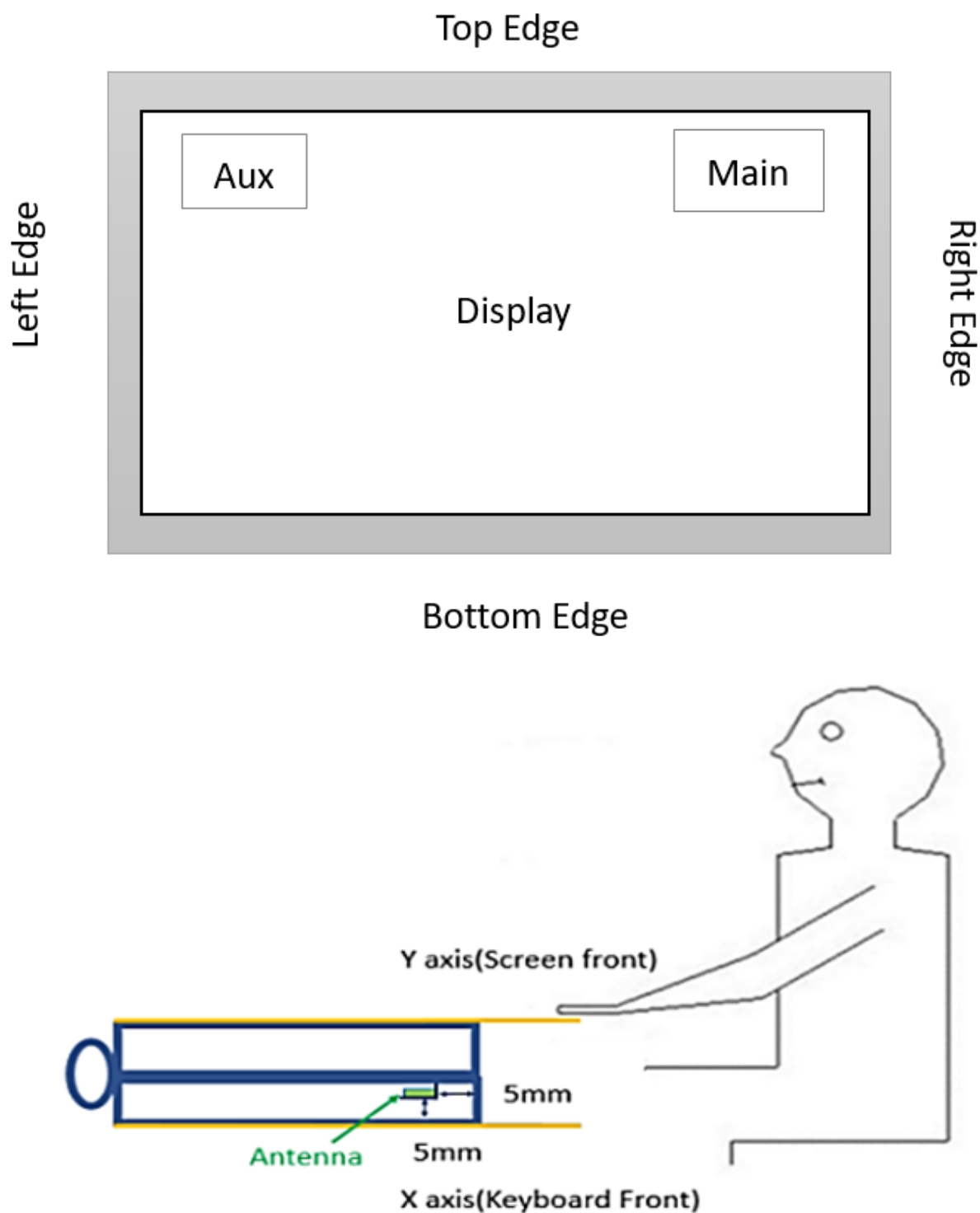
9 TEST EXCLUSION CONSIDERATION

9.1 EUT Antenna Location Sketch

9.1.1 NB Mode SAR dimensioned photo:



9.1.2 Tablet Mode SAR dimensioned photo:



Antenna	Support Bands
Antenna Aux.	BT、WLAN 2.4G/5G/6G
Antenna Main	WLAN 2.4G/5G/6G

9.2 SAR Test Consideration Table

According with FCC KDB 447498 D04, Appendix B, The SAR-based exemption formula applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

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). The following table shows the power threshold from 5mm to 50mm.

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

9.2.1 SAR Test Consideration

This host is a notebook computer, under normal use the RF exposure scenarios are shown in the table below:

RF exposure Position	RF exposure scenarios
Bottom Side	Body
Back Side	Body
Left Edge	Body
Right Edge	Body
Top Edge	Body
Bottom Edge	Body

SISO-Main Antenna Body RF exposure scenarios

Test Position Configurations	Mode	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4
Calculated Frequency(MHz)		2462	5320	5710	5825	5885
Bottom Side	Distance to User (mm)	6.45				
	Max. Peak Power (dBm)	15.50	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	35.48	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	4.44	2.50	2.37	2.33	2.31
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Back Side	Distance to User (mm)	5.00				
	Max. Peak Power (dBm)	12.00	11.00	11.00	11.00	11.00
	Max. Peak Power (mW)	15.85	12.59	12.59	12.59	12.59
	Exclusion Threshold (mW)	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Left Edge	Distance to User (mm)	187.45				
	Max. Peak Power (dBm)	12.00	11.00	11.00	11.00	11.00
	Max. Peak Power (mW)	15.85	12.59	12.59	12.59	12.59
	Exclusion Threshold (mW)	2704.93	2675.76	2673.10	2672.35	2671.71
	SAR Test Required	No	No	No	No	No
Right Edge	Distance to User (mm)	45.07				
	Max. Peak Power (dBm)	12.00	11.00	11.00	11.00	11.00
	Max. Peak Power (mW)	15.85	12.59	12.59	12.59	12.59
	Exclusion Threshold (mW)	179.50	139.89	136.73	135.85	135.10
	SAR Test Required	No	No	No	No	No
Top Edge	Distance to User (mm)	5.00				
	Max. Peak Power (dBm)	12.00	11.00	11.00	11.00	11.00
	Max. Peak Power (mW)	15.85	12.59	12.59	12.59	12.59
	Exclusion Threshold (mW)	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Distance to User (mm)	212.00				
	Max. Peak Power (dBm)	12.00	11.00	11.00	11.00	11.00
	Max. Peak Power (mW)	15.85	12.59	12.59	12.59	12.59
	Exclusion Threshold (mW)	3418.88	3452.37	3455.47	3456.34	3457.08
	SAR Test Required	No	No	No	No	No

SISO-Aux. Antenna Body RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4
Calculated Frequency(MHz)		2480	2462	5320	5710	5825	5885
Bottom Side	Distance to User (mm)	6.45					
	Max. Peak Power (dBm)	8.00	16.00	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	6.31	39.81	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	4.41	4.44	2.50	2.37	2.33	2.31
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Back Side	Distance to User (mm)	5.00					
	Max. Peak Power (dBm)	8.00	12.00	10.00	10.00	10.00	10.00
	Max. Peak Power (mW)	6.31	15.85	10.00	10.00	10.00	10.00
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Left Edge	Distance to User (mm)	43.45					
	Max. Peak Power (dBm)	8.00	12.00	10.00	10.00	10.00	10.00
	Max. Peak Power (mW)	6.31	15.85	10.00	10.00	10.00	10.00
	Exclusion Threshold (mW)	167.02	167.42	129.68	126.68	125.84	125.13
	SAR Test Required	No	No	No	No	No	No
Right Edge	Distance to User (mm)	189.07					
	Max. Peak Power (dBm)	8.00	12.00	10.00	10.00	10.00	10.00
	Max. Peak Power (mW)	6.31	15.85	10.00	10.00	10.00	10.00
	Exclusion Threshold (mW)	2749.35	2749.60	2723.86	2721.51	2720.85	2720.29
	SAR Test Required	No	No	No	No	No	No
Top Edge	Distance to User (mm)	5.00					
	Max. Peak Power (dBm)	8.00	12.00	10.00	10.00	10.00	10.00
	Max. Peak Power (mW)	6.31	15.85	10.00	10.00	10.00	10.00
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Distance to User (mm)	212.00					
	Max. Peak Power (dBm)	8.00	12.00	10.00	10.00	10.00	10.00
	Max. Peak Power (mW)	6.31	15.85	10.00	10.00	10.00	10.00
	Exclusion Threshold (mW)	3419.20	3418.88	3452.37	3455.47	3456.34	3457.08
	SAR Test Required	No	No	No	No	No	No

RF exposure Position	RF exposure scenarios
Front Edge of Keyboard	Limbs
Back Edge of Keyboard	Limbs
Left Edge of Keyboard	Limbs
Right Edge of Keyboard	Limbs
Palm rest Side of Keyboard	Limbs

SISO-Main Antenna Limbs RF exposure scenarios

Test Position Configurations	Mode	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4
Calculated Frequency(MHz)		2462	5320	5710	5825	5885
Front Edge of Keyboard	Distance to User (mm)	5.00				
	Max. Peak Power (dBm)	15.50	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	35.48	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes
Back Edge of Keyboard	Distance to User (mm)	212.00				
	Max. Peak Power (dBm)	15.50	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	35.48	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	3418.88	3452.37	3455.47	3456.34	3457.08
	SAR Test Required	No	No	No	No	No
Left Edge of Keyboard	Distance to User (mm)	187.45				
	Max. Peak Power (dBm)	15.50	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	35.48	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	2704.93	2675.76	2673.10	2672.35	2671.71
	SAR Test Required	No	No	No	No	No
Right Edge of Keyboard	Distance to User (mm)	45.07				
	Max. Peak Power (dBm)	15.50	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	35.48	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	179.50	139.89	136.73	135.85	135.10
	SAR Test Required	No	No	No	No	No
Palm rest Side of Keyboard	Distance to User (mm)	5.00				
	Max. Peak Power (dBm)	15.50	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	35.48	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes

SISO-Aux. Antenna Limbs RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4
Calculated Frequency(MHz)		2480	2462	5320	5710	5825	5885
Front Edge of Keyboard	Distance to User (mm)	5.00					
	Max. Peak Power (dBm)	8.00	16.00	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	6.31	39.81	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Back Edge of Keyboard	Distance to User (mm)	212.00					
	Max. Peak Power (dBm)	8.00	16.00	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	6.31	39.81	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	3419.20	3418.88	3452.37	3455.47	3456.34	3457.08
	SAR Test Required	No	No	No	No	No	No
Left Edge of Keyboard	Distance to User (mm)	43.45					
	Max. Peak Power (dBm)	8.00	16.00	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	6.31	39.81	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	167.02	167.42	129.68	126.68	125.84	125.13
	SAR Test Required	No	No	No	No	No	No
Right Edge of Keyboard	Distance to User (mm)	189.07					
	Max. Peak Power (dBm)	8.00	16.00	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	6.31	39.81	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	2749.35	2749.60	2723.86	2721.51	2720.85	2720.29
	SAR Test Required	No	No	No	No	No	No
Palm rest Side of Keyboard	Distance to User (mm)	5.00					
	Max. Peak Power (dBm)	8.00	16.00	15.00	16.00	16.00	16.00
	Max. Peak Power (mW)	6.31	39.81	31.62	39.81	39.81	39.81
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance 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, for separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive), the threshold Pth (mW) is given by Following:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \leq 20cm \\ ERP_{20cm} & 20cm < d \leq 40cm \end{cases}$$

where

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

- a. f(GHz) is the RF channel transmit frequency in GHz
- b. d is the separation distance (cm), The result is rounded to one decimal place for comparison
- c. ERP_{20cm} are determined by:

$$ERP_{20cm}(mW) = f(x) = \begin{cases} 2040f & 0.3GHz \leq f < 1.5GHz \\ 3060 & 1.5GHz \leq f \leq 6GHz \end{cases}$$

5. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
6. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D04 SAR test exclusion applies to the OFDM configuration.
 - b. 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. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. 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, each band is tested independently for SAR.
 - b. 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, each band is tested independently for SAR.
8. For Limbs SAR, SAR test exemption considered by applying a factor of 2.5 to the applicable power level thresholds.

10 TEST RESULT

1. 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.
 - 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. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
3. Per KDB 447498 D04, 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
4. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg

10.1 Bluetooth (Aux. Antenna)

10.1.1 Bluetooth Body SAR

Mode	Antenna Manufacturer	Test State	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
DH5	AWAN	Laptop	Aux.	Bottom Side	0	39	2441	0.12	0.159	7.41	8.00	1.146	77.36	1.293	0.236	/
		Tablet	Aux.	Back Side	0	39	2441	-0.06	0.203	7.41	8.00	1.146	77.36	1.293	0.301	/
				Top Edge	0	39	2441	-0.15	0.058	7.41	8.00	1.146	77.36	1.293	0.086	/
	South Star	Laptop	Aux.	Bottom Side	0	39	2441	0.10	0.186	7.41	8.00	1.146	77.36	1.293	0.276	/
		Tablet	Aux.	Back Side	0	39	2441	0.19	0.228	7.41	8.00	1.146	77.36	1.293	0.338	/
				Top Edge	0	39	2441	0.00	0.065	7.41	8.00	1.146	77.36	1.293	0.096	/
				Back Side	0	0	2402	-0.01	0.261	7.31	8.00	1.172	77.36	1.293	0.396	1#
				Back Side	0	78	2480	0.13	0.226	7.33	8.00	1.167	77.36	1.293	0.341	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.1.2 Bluetooth Limbs SAR

Mode	Antenna Manufa cturer	Test State	Anten na	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Limbs																
DH5	AWAN	Laptop	Aux.	Front Edge of Keyboard	0	39	2441	0.17	0.063	7.41	8.00	1.146	77.36	1.293	0.093	/
				Palm rest Side of Keyboard	0	39	2441	0.03	0.239	7.41	8.00	1.146	77.36	1.293	0.354	2#
					0	0	2402	0.18	0.228	7.31	8.00	1.172	77.36	1.293	0.346	/
					0	78	2480	0.01	0.234	7.33	8.00	1.167	77.36	1.293	0.353	/
	South Star	Laptop	Aux.	Front Edge of Keyboard	0	39	2441	-0.17	0.061	7.41	8.00	1.146	77.36	1.293	0.090	/
				Palm rest Side of Keyboard	0	39	2441	0.14	0.208	7.41	8.00	1.146	77.36	1.293	0.308	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.2WIFI 2.4GHz

10.2.1 WIFI 2.4GHz Body SAR

Mode	Antenna Manufa cturer	Test State	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
802.11b	AWAN	Laptop	Aux.	Bottom Side	0	11	2462	0.18	0.482	15.76	16.00	1.057	99.73	1.003	0.511	/
		Tablet		Back Side	0	11	2462	-0.17	0.936	11.98	12.00	1.005	99.73	1.003	0.944	/
				Top Edge	0	11	2462	-0.03	0.219	11.98	12.00	1.005	99.73	1.003	0.221	/
				Back Side	0	1	2412	0.09	0.903	11.83	12.00	1.040	99.73	1.003	0.942	/
				Back Side	0	6	2437	-0.07	1.010	11.87	12.00	1.030	99.73	1.003	1.043	/
	South Star	Laptop	Aux.	Bottom Side	0	11	2462	0.03	0.515	15.76	16.00	1.057	99.73	1.003	0.546	/
		Tablet		Back Side	0	11	2462	-0.18	0.856	11.98	12.00	1.005	99.73	1.003	0.863	/
				Top Edge	0	11	2462	-0.17	0.236	11.98	12.00	1.005	99.73	1.003	0.238	/
				Back Side	0	1	2412	0.08	1.030	11.83	12.00	1.040	99.73	1.003	1.074	3#
				Back Side	0	6	2437	0.00	0.952	11.87	12.00	1.030	99.73	1.003	0.984	/
	AWAN	Laptop	Main	Bottom Side	0	6	2437	-0.06	0.713	15.40	15.50	1.023	99.73	1.003	0.732	/
		Tablet		Back Side	0	6	2437	-0.15	0.958	11.82	12.00	1.042	99.73	1.003	1.001	/
				Top Edge	0	6	2437	0.04	0.201	11.82	12.00	1.042	99.73	1.003	0.210	/
				Back Side	0	1	2412	0.04	1.090	11.67	12.00	1.079	99.73	1.003	1.180	4#
				Back Side	0	11	2462	0.07	0.975	11.61	12.00	1.094	99.73	1.003	1.070	/
	South Star	Laptop	Main	Bottom Side	0	6	2437	0.10	0.385	15.40	15.50	1.023	99.73	1.003	0.395	/
		Tablet		Back Side	0	6	2437	0.12	0.354	11.82	12.00	1.042	99.73	1.003	0.370	/
				Top Edge	0	6	2437	-0.07	0.126	11.82	12.00	1.042	99.73	1.003	0.132	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.2.2 WIFI 2.4GHz Limbs SAR

Mode	Antenna Manufa cturer	Test State	Anten na	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Limbs																
802.11b	AWAN	Laptop	Aux.	Front Edge of Keyboard	0	11	2462	0.01	0.324	15.85	16.00	1.035	99.73	1.003	0.336	/
				Palm rest Side of Keyboard	0	11	2462	-0.02	1.070	15.85	16.00	1.035	99.73	1.003	1.111	5#
					0	1	2412	-0.04	0.958	15.76	16.00	1.057	99.73	1.003	1.016	/
					0	6	2437	0.10	1.010	15.74	16.00	1.062	99.73	1.003	1.076	/
	South Star	Laptop	Aux.	Front Edge of Keyboard	0	11	2462	-0.16	0.248	15.62	16.00	1.091	99.73	1.003	0.271	/
				Palm rest Side of Keyboard	0	11	2462	0.04	0.879	15.85	16.00	1.035	99.73	1.003	0.912	/
	AWAN	Laptop	Main	Front Edge of Keyboard	0	6	2437	-0.02	0.238	15.40	15.50	1.023	99.73	1.003	0.244	/
				Palm rest Side of Keyboard	0	6	2437	0.05	1.110	15.40	15.50	1.023	99.73	1.003	1.139	6#
					0	1	2412	0.18	0.950	15.17	15.50	1.079	99.73	1.003	1.028	/
					0	11	2462	-0.04	1.000	15.14	15.50	1.086	99.73	1.003	1.089	/
	South Star	Laptop	Main	Front Edge of Keyboard	0	6	2437	0.04	0.172	15.40	15.50	1.023	99.73	1.003	0.176	/
				Palm rest Side of Keyboard	0	6	2437	-0.10	0.758	15.40	15.50	1.023	99.73	1.003	0.778	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.3 WIFI 5GHZ

10.3.1 WIFI 5GHz Body SAR

Mode	Antenna Manufac turer	Test State	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body-U-NII-2A																
802.11n40	AWAN	Laptop	Aux.	Bottom Side	0	62	5310	-0.13	0.308	14.81	15.00	1.045	97.62	1.024	0.330	/
802.11 ac80		Tablet		Back Side	0	58	5290	0.02	0.576	9.84	10.00	1.038	95.18	1.051	0.628	7#
				Top Edge	0	58	5290	0.12	0.158	9.84	10.00	1.038	95.18	1.051	0.172	/
802.11n40	South Star	Laptop	Aux.	Bottom Side	0	62	5310	0.06	0.485	14.81	15.00	1.045	97.62	1.024	0.519	/
802.11 ac80		Tablet		Back Side	0	58	5290	-0.09	0.460	9.84	10.00	1.038	95.18	1.051	0.502	/
				Top Edge	0	58	5290	0.18	0.147	9.84	10.00	1.038	95.18	1.051	0.160	/
802.11n40	AWAN	Laptop	Main	Bottom Side	0	54	5270	0.19	0.378	14.71	15.00	1.069	97.62	1.024	0.414	/
802.11 ac80		Tablet		Back Side	0	58	5290	-0.10	0.506	10.76	11.00	1.057	95.18	1.051	0.562	/
				Top Edge	0	58	5290	-0.11	0.281	10.76	11.00	1.057	95.18	1.051	0.312	/
802.11n40	South Star	Laptop	Main	Bottom Side	0	54	5270	0.07	0.456	14.71	15.00	1.069	97.62	1.024	0.499	/
802.11 ac80		Tablet		Back Side	0	58	5290	0.07	0.621	10.76	11.00	1.057	95.18	1.051	0.690	8#
				Top Edge	0	58	5290	-0.01	0.320	10.76	11.00	1.057	95.18	1.051	0.355	/
Body-U-NII-2C																
802.11 ac80	AWAN	Laptop	Aux.	Bottom Side	0	106	5530	0.10	0.356	15.78	16.00	1.052	95.18	1.051	0.394	/
802.11 ac160		Tablet		Back Side	0	114	5570	-0.02	0.612	9.82	10.00	1.042	91.73	1.090	0.695	/
				Top Edge	0	114	5570	-0.16	0.204	9.82	10.00	1.042	91.73	1.090	0.232	/
802.11 ac80	South Star	Laptop	Aux.	Bottom Side	0	106	5530	0.03	0.561	15.78	16.00	1.052	95.18	1.051	0.620	/
802.11 ac160		Tablet		Back Side	0	114	5570	0.06	0.888	9.82	10.00	1.042	91.73	1.090	1.009	11#
				Top Edge	0	114	5570	0.14	0.184	9.82	10.00	1.042	91.73	1.090	0.209	/
802.11 ac80	AWAN	Laptop	Main	Bottom Side	0	106	5530	0.03	0.396	15.71	16.00	1.069	95.18	1.051	0.445	/
802.11 ac160		Tablet		Back Side	0	114	5570	-0.17	0.611	10.84	11.00	1.038	91.73	1.090	0.691	/
				Top Edge	0	114	5570	-0.06	0.218	10.84	11.00	1.038	91.73	1.090	0.247	/
802.11 ac80	South Star	Laptop	Main	Bottom Side	0	106	5530	0.09	0.486	15.71	16.00	1.069	95.18	1.051	0.546	/
802.11 ac160		Tablet		Back Side	0	114	5570	-0.07	0.619	10.84	11.00	1.038	91.73	1.090	0.700	12#
				Top Edge	0	114	5570	0.07	0.235	10.84	11.00	1.038	91.73	1.090	0.266	/
Body-U-NII-3																
802.11ac80	AWAN	Laptop	Aux.	Bottom Side	0	155	5775	-0.09	0.358	15.47	16.00	1.130	95.18	1.051	0.425	/
		Tablet		Back Side	0	155	5775	0.00	0.620	9.60	10.00	1.096	95.18	1.051	0.714	/
				Top Edge	0	155	5775	0.02	0.218	9.60	10.00	1.096	95.18	1.051	0.251	/
	South Star	Laptop	Aux.	Bottom Side	0	155	5775	0.01	0.744	15.47	16.00	1.130	95.18	1.051	0.884	15#
		Tablet		Back Side	0	155	5775	0.02	0.648	9.60	10.00	1.096	95.18	1.051	0.746	/
				Top Edge	0	155	5775	-0.17	0.226	9.60	10.00	1.096	95.18	1.051	0.260	/
	AWAN	Laptop	Main	Bottom Side	0	155	5775	0.13	0.385	15.63	16.00	1.089	95.18	1.051	0.441	/
		Tablet		Back Side	0	155	5775	-0.02	0.838	10.43	11.00	1.140	95.18	1.051	1.004	16#
				Top Edge	0	155	5775	0.06	0.296	10.43	11.00	1.140	95.18	1.051	0.355	/

	South Star	Laptop	Main	Bottom Side	0	155	5775	0.00	0.598	15.63	16.00	1.089	95.18	1.051	0.684	/
		Tablet		Back Side	0	155	5775	-0.03	0.591	10.43	11.00	1.140	95.18	1.051	0.708	/
		Top Edge		0	155	5775	0.02	0.285	10.43	11.00	1.140	95.18	1.051	0.341	/	
Body-U-NII-4																
802.11ac160	AWAN	Laptop	Aux.	Bottom Side	0	163	5815	-0.17	0.419	15.59	16.00	1.099	91.73	1.090	0.502	/
		Tablet		Back Side	0	163	5815	-0.13	0.560	9.77	10.00	1.054	91.73	1.090	0.643	/
		Top Edge		0	163	5815	-0.19	0.184	9.77	10.00	1.054	91.73	1.090	0.211	/	
	South Star	Laptop	Aux.	Bottom Side	0	163	5815	0.05	0.662	15.59	16.00	1.099	91.73	1.090	0.793	/
		Tablet		Back Side	0	163	5815	-0.10	0.719	9.77	10.00	1.054	91.73	1.090	0.826	19#
		Top Edge		0	163	5815	-0.01	0.205	9.77	10.00	1.054	91.73	1.090	0.236	/	
	AWAN	Laptop	Main	Bottom Side	0	163	5815	-0.04	0.254	15.47	16.00	1.130	91.73	1.090	0.313	/
		Tablet		Back Side	0	163	5815	0.11	0.730	10.59	11.00	1.099	91.73	1.090	0.874	/
		Top Edge		0	163	5815	-0.11	0.223	10.59	11.00	1.099	91.73	1.090	0.267	/	
	South Star	Laptop	Main	Bottom Side	0	163	5815	0.05	0.427	15.47	16.00	1.130	91.73	1.090	0.526	/
		Tablet		Back Side	0	163	5815	-0.04	0.732	10.59	11.00	1.099	91.73	1.090	0.877	20#
		Top Edge		0	163	5815	0.10	0.254	10.59	11.00	1.099	91.73	1.090	0.304	/	
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.3.2 WIFI 5GHz Limbs SAR

Mode	Antenna Manufac turer	Test State	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Limbs-U-NII-2A																
802.11n40	AWAN	Laptop	Aux.	Front Edge of Keyboard	0	62	5310	-0.06	0.203	14.81	15.00	1.045	97.62	1.024	0.217	/
				Palm rest Side of Keyboard	0	62	5310	-0.01	0.457	14.81	15.00	1.045	97.62	1.024	0.489	9#
					0	54	5270	0.03	0.432	14.73	15.00	1.064	97.62	1.024	0.471	/
	South Star	Laptop	Aux.	Front Edge of Keyboard	0	62	5310	-0.09	0.189	14.81	15.00	1.045	97.62	1.024	0.202	/
				Palm rest Side of Keyboard	0	62	5310	0.02	0.440	14.81	15.00	1.045	97.62	1.024	0.471	/
	AWAN	Laptop	Main	Front Edge of Keyboard	0	54	5270	0.06	0.301	14.71	15.00	1.069	97.62	1.024	0.329	/
				Palm rest Side of Keyboard	0	54	5270	-0.08	0.511	14.71	15.00	1.069	97.62	1.024	0.559	/
	South Star	Laptop	Main	Front Edge of Keyboard	0	54	5270	0.00	0.364	14.71	15.00	1.069	97.62	1.024	0.398	/
				Palm rest Side of Keyboard	0	54	5270	0.03	0.570	14.71	15.00	1.069	97.62	1.024	0.624	10#
					0	62	5310	-0.07	0.506	14.26	15.00	1.186	97.62	1.024	0.615	/
Limbs-U-NII-2C																
802.11ac80	AWAN	Laptop	Aux.	Front Edge of Keyboard	0	106	5530	0.19	0.236	15.78	16.00	1.052	95.18	1.051	0.261	/
				Palm rest Side of Keyboard	0	106	5530	0.00	0.533	15.78	16.00	1.052	95.18	1.051	0.589	13#
					0	122	5610	0.10	0.500	15.65	16.00	1.084	95.18	1.051	0.570	/
					0	138	5690	-0.09	0.504	15.61	16.00	1.094	95.18	1.051	0.579	/
	South Star	Laptop	Aux.	Front Edge of Keyboard	0	106	5530	0.14	0.210	15.78	16.00	1.052	95.18	1.051	0.232	/
				Palm rest Side of Keyboard	0	106	5530	0.11	0.451	15.78	16.00	1.052	95.18	1.051	0.499	/
	AWAN	Laptop	Main	Front Edge of Keyboard	0	106	5530	0.06	0.312	15.71	16.00	1.069	95.18	1.051	0.351	/
				Palm rest Side of Keyboard	0	106	5530	-0.03	0.452	15.71	16.00	1.069	95.18	1.051	0.508	14#
					0	122	5610	-0.16	0.403	15.49	16.00	1.125	95.18	1.051	0.476	/
					0	138	5690	-0.16	0.428	15.59	16.00	1.099	95.18	1.051	0.494	/
	South Star	Laptop	Main	Front Edge of Keyboard	0	106	5530	-0.19	0.286	15.71	16.00	1.069	95.18	1.051	0.321	/
				Palm rest Side of Keyboard	0	106	5530	-0.17	0.405	15.71	16.00	1.069	95.18	1.051	0.455	/
Limbs-U-NII-3																
802.11ac80	AWAN	Laptop	Aux.	Front Edge of	0	155	5775	-0.19	0.206	15.76	16.00	1.057	95.18	1.051	0.229	/

				Keyboard													
				Palm rest Side of Keyboard	0	155	5775	0.13	0.512	15.76	16.00	1.057	95.18	1.051	0.569	/	
	South Star	Laptop	Aux.	Front Edge of Keyboard	0	155	5775	-0.02	0.235	15.76	16.00	1.057	95.18	1.051	0.261	/	
				Palm rest Side of Keyboard	0	155	5775	0.01	0.613	15.76	16.00	1.057	95.18	1.051	0.681	17#	
	AWAN	Laptop	Main	Front Edge of Keyboard	0	155	5775	0.18	0.247	15.40	16.00	1.148	95.18	1.051	0.298	/	
				Palm rest Side of Keyboard	0	155	5775	0.16	0.535	15.40	16.00	1.148	95.18	1.051	0.646	/	
	South Star	Laptop	Main	Front Edge of Keyboard	0	155	5775	-0.18	0.260	15.40	16.00	1.148	95.18	1.051	0.314	/	
				Palm rest Side of Keyboard	0	155	5775	0.09	0.672	15.40	16.00	1.148	95.18	1.051	0.811	18#	
	Limbs-U-NII-4																
	802.11ac160	AWAN	Laptop	Aux.	Front Edge of Keyboard	0	163	5815	0.18	0.203	15.59	16.00	1.099	91.73	1.090	0.243	/
Palm rest Side of Keyboard					0	163	5815	0.19	0.650	15.59	16.00	1.099	91.73	1.090	0.779	/	
South Star		Laptop	Aux.	Front Edge of Keyboard	0	163	5815	-0.11	0.247	15.59	16.00	1.099	91.73	1.090	0.296	/	
				Palm rest Side of Keyboard	0	163	5815	0.12	0.667	15.59	16.00	1.099	91.73	1.090	0.799	21#	
AWAN		Laptop	Main	Front Edge of Keyboard	0	163	5815	-0.02	0.251	15.47	16.00	1.130	91.73	1.090	0.309	/	
				Palm rest Side of Keyboard	0	163	5815	0.14	0.663	15.47	16.00	1.130	91.73	1.090	0.817	/	
South Star		Laptop	Main	Front Edge of Keyboard	0	163	5815	0.04	0.314	15.47	16.00	1.130	91.73	1.090	0.387	/	
				Palm rest Side of Keyboard	0	163	5815	-0.02	0.674	15.47	16.00	1.130	91.73	1.090	0.830	22#	
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

10.4WIFI 6GHz

10.4.1 WIFI 6GHz Body SAR

Mode	Antenna Manufact urer	Test State	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Measured APD (W/m ²)	Scaled APD (W/m ²)	Meas. No.
Body																		
802.11 ax160	AWAN	Laptop	Aux.	Bottom Side	0	47	6185	0.19	0.205	12.88	13.00	1.028	91.73	1.090	0.230	1.350	1.513	/
		Tablet		Back Side	0	47	6185	-0.19	0.815	10.42	10.50	1.019	91.73	1.090	0.905	5.310	5.898	/
				Top Edge	0	47	6185	-0.04	0.156	10.42	10.50	1.019	91.73	1.090	0.173	1.040	1.155	/
				Back Side	0	15	6025	0.19	0.454	9.85	10.50	1.161	91.73	1.090	0.575	3.350	4.239	/
				Back Side	0	79	6345	0.10	0.799	10.34	10.50	1.038	91.73	1.090	0.904	5.430	6.144	/
				Back Side	0	111	6505	-0.14	0.556	10.01	10.50	1.119	91.73	1.090	0.678	4.100	5.001	/
				Back Side	0	143	6665	-0.11	0.597	10.09	10.50	1.099	91.73	1.090	0.715	4.250	5.091	/
				Back Side	0	175	6825	-0.08	0.675	9.83	10.50	1.167	91.73	1.090	0.859	5.050	6.424	/
				Back Side	0	207	6985	0.08	0.482	10.10	10.50	1.096	91.73	1.090	0.576	3.490	4.169	/
	South Star	Laptop	Aux.	Bottom Side	0	47	6185	0.13	0.484	12.88	13.00	1.028	91.73	1.090	0.542	3.170	3.552	/
		Tablet		Back Side	0	47	6185	0.05	0.690	10.42	10.50	1.019	91.73	1.090	0.766	4.630	5.143	/
				Top Edge	0	47	6185	0.01	0.169	10.42	10.50	1.019	91.73	1.090	0.188	1.130	1.255	/
				Back Side	0	15	6025	-0.08	0.593	9.85	10.50	1.161	91.73	1.090	0.750	4.470	5.657	/
				Back Side	0	79	6345	-0.08	0.914	10.34	10.50	1.038	91.73	1.090	1.034	6.020	6.811	/
				Back Side	0	111	6505	-0.08	0.609	10.01	10.50	1.119	91.73	1.090	0.743	4.480	5.464	/
				Back Side	0	143	6665	-0.17	0.807	10.09	10.50	1.099	91.73	1.090	0.967	5.750	6.888	/
				Back Side	0	175	6825	0.05	0.916	9.83	10.50	1.167	91.73	1.090	1.165	7.030	8.942	23#
				Back Side	0	207	6985	0.15	0.838	10.10	10.50	1.096	91.73	1.090	1.001	6.020	7.192	/
	AWAN	Laptop	Main	Bottom Side	0	47	6185	-0.17	0.229	12.94	13.00	1.014	91.73	1.090	0.253	1.760	1.945	/
		Tablet		Back Side	0	111	6505	-0.09	0.901	10.48	10.50	1.005	91.73	1.090	0.987	6.710	7.350	/
				Top Edge	0	111	6505	0.12	0.211	10.48	10.50	1.005	91.73	1.090	0.231	1.580	1.731	/
				Back Side	0	15	6025	-0.09	0.495	9.99	10.50	1.125	91.73	1.090	0.607	4.130	5.064	/
				Back Side	0	47	6185	0.05	0.582	9.84	10.50	1.164	91.73	1.090	0.738	5.000	6.344	/
				Back Side	0	79	6345	-0.16	0.710	10.29	10.50	1.050	91.73	1.090	0.813	5.540	6.341	/
				Back Side	0	143	6665	-0.14	0.906	10.16	10.50	1.081	91.73	1.090	1.068	7.280	8.578	/
				Back Side	0	175	6825	0.05	0.970	10.08	10.50	1.102	91.73	1.090	1.165	8.130	9.766	24#
				Back Side	0	207	6985	-0.13	0.835	9.90	10.50	1.148	91.73	1.090	1.045	7.140	8.934	/
	South Star	Laptop	Main	Bottom Side	0	47	6185	0.10	0.338	12.94	13.00	1.014	91.73	1.090	0.374	2.560	2.829	/
		Tablet		Back Side	0	111	6505	0.16	0.795	10.48	10.50	1.005	91.73	1.090	0.871	5.910	6.474	/
				Top Edge	0	111	6505	-0.01	0.185	10.48	10.50	1.005	91.73	1.090	0.203	1.400	1.534	/
				Back Side	0	15	6025	-0.07	0.701	9.99	10.50	1.125	91.73	1.090	0.860	5.970	7.321	/
				Back Side	0	47	6185	-0.03	0.743	9.84	10.50	1.164	91.73	1.090	0.943	6.520	8.272	/
				Back Side	0	79	6345	-0.15	0.914	10.29	10.50	1.050	91.73	1.090	1.046	7.130	8.160	/
				Back Side	0	143	6665	-0.05	0.953	10.16	10.50	1.081	91.73	1.090	1.123	7.730	9.108	/
				Back Side	0	175	6825	0.01	0.902	10.08	10.50	1.102	91.73	1.090	1.083	7.420	8.913	/

				Back Side	0	207	6985	0.08	0.724	9.90	10.50	1.148	91.73	1.090	0.906	6.360	7.958	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

10.4.2 WIFI 6GHz Limbs SAR

Mode	Antenna Manufact urer	Test State	Antenn a	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Measured APD (W/m ²)	Scaled APD (W/m ²)	Meas. No.
Limbs																		
802.11 ax160	AWAN	Laptop	Aux.	Front Edge of Keyboard	0	47	6185	0.06	0.186	12.88	13.00	1.064	91.73	1.090	0.216	9.890	11.470	/
				Palm rest Side of Keyboard	0	47	6185	-0.19	0.428	12.88	13.00	1.064	91.73	1.090	0.496	4.510	5.231	/
	South Star	Laptop	Aux.	Front Edge of Keyboard	0	47	6185	-0.01	0.195	12.88	13.00	1.064	91.73	1.090	0.226	10.770	12.491	/
				Palm rest Side of Keyboard	0	47	6185	0.00	0.467	12.37	13.00	1.064	91.73	1.090	0.542	10.800	12.525	25#
					0	15	6025	-0.16	0.430	12.77	13.00	1.064	91.73	1.090	0.499	9.170	10.635	/
					0	79	6345	-0.16	0.401	12.53	13.00	1.064	91.73	1.090	0.465	8.910	10.333	/
					0	111	6505	-0.16	0.390	12.53	13.00	1.064	91.73	1.090	0.452	8.910	10.333	/
					0	143	6665	-0.16	0.385	12.42	13.00	1.064	91.73	1.090	0.447	7.020	8.142	/
					0	175	6825	-0.16	0.306	12.51	13.00	1.064	91.73	1.090	0.355	6.820	7.910	/
					0	207	6985	-0.16	0.296	12.73	13.00	1.064	91.73	1.090	0.343	4.310	4.999	/
	AWAN	Laptop	Main	Front Edge of Keyboard	0	47	6185	0.08	0.190	12.86	13.00	1.033	91.73	1.090	0.214	8.730	9.830	/
				Palm rest Side of Keyboard	0	47	6185	0.05	0.389	12.86	13.00	1.033	91.73	1.090	0.438	8.950	10.077	26#
					0	15	6025	-0.16	0.370	12.77	13.00	1.064	91.73	1.090	0.429	8.160	9.464	/
					0	79	6345	-0.16	0.310	12.53	13.00	1.064	91.73	1.090	0.360	7.170	8.315	/
					0	111	6505	-0.16	0.373	12.53	13.00	1.064	91.73	1.090	0.433	8.630	10.009	/
					0	143	6665	-0.16	0.359	12.42	13.00	1.064	91.73	1.090	0.416	8.330	9.661	/
					0	175	6825	-0.16	0.316	12.51	13.00	1.064	91.73	1.090	0.366	7.360	8.536	/
					0	207	6985	-0.16	0.364	12.73	13.00	1.064	91.73	1.090	0.422	8.470	9.823	/
	South Star	Laptop	Main	Front Edge of Keyboard	0	47	6185	0.10	0.174	12.86	13.00	1.033	91.73	1.090	0.196	3.930	4.425	/
				Palm rest Side of Keyboard	0	47	6185	0.18	0.341	12.86	13.00	1.033	91.73	1.090	0.384	7.680	8.647	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. 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, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	Antenna manufacturer	Test State	Antenna	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Largest to Smallest SAR Radio
2412	802.11b	South Star	Tablet	Aux.	Body	Back Side	1.030	Yes	1.010	1.02
2412	802.11b	AWAN	Tablet	Main	Body	Back Side	1.090	Yes	1.040	1.05
5570	802.11ac160	South Star	Tablet	Aux.	Body	Back Side	0.888	Yes	0.860	1.03
5775	802.11ac80	South Star	Tablet	Main	Body	Back Side	0.838	Yes	0.824	1.02
6825	802.11ax160	South Star	Tablet	Aux.	Body	Back Side	0.916	Yes	0.908	1.01
6825	802.11ax160	AWAN	Tablet	Main	Body	Back Side	0.970	Yes	0.954	1.02

Note 1: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement is not required.

Note 2: For product specific 10g SAR, the highest measured 10g SAR is $1.11 < 2.00$ W/kg, repeated measurement is not required.

12 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

According KDB 447498 D04, simultaneous transmission:

- a) $SPLSR = (SAR1 + SAR2)^{1.5} / R_i$ (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.
SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.
SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition as the first.
- b) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
- c) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

12.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Tx Combination	Body&Limbs
1	Bluetooth + WLAN 2.4GHz (Antenna Main)	Yes
2	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 2.4GHz (Antenna Main)	Yes
3	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
4	WLAN 2.4GHz (Antenna Main) + WLAN 5GHz (Antenna Auxiliary)	Yes
5	WLAN 5GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
6	Bluetooth + WLAN 5GHz (Antenna Auxiliary)	Yes
7	Bluetooth + WLAN 5GHz (Antenna Main)	Yes
8	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
9	WLAN 2.4GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	Yes
10	WLAN 6GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
11	Bluetooth + WLAN 6GHz (Antenna Auxiliary)	Yes
12	Bluetooth + WLAN 6GHz (Antenna Main)	Yes

Note:

1. The EUT supports the Antenna Auxiliary with TX/RX diversity function for WLAN and Bluetooth, the Antenna Main with TX/RX diversity function for WLAN.
2. WLAN 2.4GHz and Bluetooth will not be transmitting from the Antenna Auxiliary at same time.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Body Simultaneous Transmission SAR Evaluation for WLAN Antenna with Bluetooth

Test Mode	Position	Simultaneous Mode	Mode	Max. 1g SAR	1g Sum SAR	SPLSR	SPLSR	Limit 1g (W/Kg)
				(W/kg)	(W/kg)	(Yes/No)	Num.	
Body (0 mm)								
Laptop	Bottom Side	2.4 G WLAN (Auxiliary Antenna) + 2.4 G WLAN (Main Antenna)	2.4 G WLAN (Auxiliary Antenna)	0.546	1.278	No	/	1.6
			2.4 G WLAN (Main Antenna)	0.732				
		2.4 G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	2.4 G WLAN (Main Antenna)	0.732	1.008	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		2.4G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.546	1.045	No	/	
			5.3G WLAN (Main Antenna)	0.499				
		2.4G WLAN (Main Antenna) + 5.3G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.732	1.251	No	/	
			5.3G WLAN (Auxiliary Antenna)	0.519				
		5.3G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	5.3G WLAN (Auxiliary Antenna)	0.519	1.018	No	/	
			5.3G WLAN (Main Antenna)	0.499				
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Auxiliary Antenna)	0.519	0.795	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Main Antenna)	0.499	0.775	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		2.4G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.546	1.092	No	/	
			5.6G WLAN (Main Antenna)	0.546				
		2.4G WLAN (Main Antenna) + 5.6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.732	1.352	No	/	
			5.6G WLAN (Auxiliary Antenna)	0.620				
		5.6G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	5.6G WLAN (Auxiliary Antenna)	0.620	1.166	No	/	
			5.6G WLAN (Main Antenna)	0.546				
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Auxiliary Antenna)	0.620	0.896	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Main Antenna)	0.546	0.822	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		2.4G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.546	1.230	No	/	
			5.8G WLAN (Main Antenna)	0.684				
		2.4G WLAN (Main Antenna) + 5.8G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.732	1.616	Yes	1#	
			5.8G WLAN (Auxiliary Antenna)	0.884				
		5.8G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Auxiliary Antenna)	0.884	1.568	No	/	
			5.8G WLAN (Main Antenna)	0.684				
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Auxiliary Antenna)	0.884	1.160	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Main Antenna)	0.684	0.960	No	/	
			Bluetooth (Auxiliary Antenna)	0.276				
		2.4G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.546	1.072	No	/	
			5.9G WLAN (Main Antenna)	0.526				

		2.4G WLAN (Main Antenna) + 5.9G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.732	1.525	No	/
			5.9G WLAN (Auxiliary Antenna)	0.793			
		5.9G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	5.9G WLAN (Auxiliary Antenna)	0.793	1.319	No	/
			5.9G WLAN (Main Antenna)	0.526			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Auxiliary Antenna)	0.793	1.069	No	/
			Bluetooth (Auxiliary Antenna)	0.276			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Main Antenna)	0.526	0.802	No	/
			Bluetooth (Auxiliary Antenna)	0.276			
		2.4G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.546	0.920	No	/
			6G WLAN (Main Antenna)	0.374			
		2.4G WLAN (Main Antenna) + 6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.732	1.274	No	/
			6G WLAN (Auxiliary Antenna)	0.542			
		6G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	6G WLAN (Auxiliary Antenna)	0.542	0.916	No	/
			6G WLAN (Main Antenna)	0.374			
		6G WLAN (Auxiliary Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Auxiliary Antenna)	0.542	0.818	No	/
			Bluetooth (Auxiliary Antenna)	0.276			
Tablet	Back Side	2.4 G WLAN (Auxiliary Antenna) + 2.4 G WLAN (Main Antenna)	2.4 G WLAN (Auxiliary Antenna)	1.074	2.254	Yes	2#
			2.4 G WLAN (Main Antenna)	1.180			
		2.4 G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	2.4 G WLAN (Main Antenna)	1.180	1.576	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		2.4G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.074	1.764	Yes	3#
			5.3G WLAN (Main Antenna)	0.690			
		2.4G WLAN (Main Antenna) + 5.3G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.180	1.808	Yes	4#
			5.3G WLAN (Auxiliary Antenna)	0.628			
		5.3G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	5.3G WLAN (Auxiliary Antenna)	0.628	1.318	No	/
			5.3G WLAN (Main Antenna)	0.690			
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Auxiliary Antenna)	0.628	1.024	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Main Antenna)	0.690	1.086	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		2.4G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.074	1.774	Yes	5#
			5.6G WLAN (Main Antenna)	0.700			
		2.4G WLAN (Main Antenna) + 5.6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.180	2.189	Yes	6#
			5.6G WLAN (Auxiliary Antenna)	1.009			
		5.6G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	5.6G WLAN (Auxiliary Antenna)	1.009	1.709	Yes	7#
			5.6G WLAN (Main Antenna)	0.700			
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Auxiliary Antenna)	1.009	1.405	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Main Antenna)	0.700	1.096	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
			2.4G WLAN (Auxiliary Antenna)	1.074	2.078	Yes	8#

		2.4G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Main Antenna)	1.004			
		2.4G WLAN (Main Antenna) + 5.8G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.180	1.926	Yes	9#
			5.8G WLAN (Auxiliary Antenna)	0.746			
		5.8G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Auxiliary Antenna)	0.746	1.750	Yes	10#
			5.8G WLAN (Main Antenna)	1.004			
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Auxiliary Antenna)	0.746	1.142	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Main Antenna)	1.004	1.400	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		2.4G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.074	1.951	Yes	11#
			5.9G WLAN (Main Antenna)	0.877			
		2.4G WLAN (Main Antenna) + 5.9G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.180	2.006	Yes	12#
			5.9G WLAN (Auxiliary Antenna)	0.826			
		5.9G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	5.9G WLAN (Auxiliary Antenna)	0.826	1.703	Yes	13#
			5.9G WLAN (Main Antenna)	0.877			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Auxiliary Antenna)	0.826	1.222	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Main Antenna)	0.877	1.273	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		2.4G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.074	2.239	Yes	14#
			6G WLAN (Main Antenna)	1.165			
		2.4G WLAN (Main Antenna) + 6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.180	2.345	Yes	15#
			6G WLAN (Auxiliary Antenna)	1.165			
		6G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	6G WLAN (Auxiliary Antenna)	1.165	2.330	Yes	16#
			6G WLAN (Main Antenna)	1.165			
		6G WLAN (Auxiliary Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Auxiliary Antenna)	1.165	1.561	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
		6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Main Antenna)	1.165	1.561	No	/
			Bluetooth (Auxiliary Antenna)	0.396			
Tablet	Top Edge	2.4 G WLAN (Auxiliary Antenna) + 2.4 G WLAN (Main Antenna)	2.4 G WLAN (Auxiliary Antenna)	0.238	0.448	No	/
			2.4 G WLAN (Main Antenna)	0.210			
		2.4 G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	2.4 G WLAN (Main Antenna)	0.210	0.306	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		2.4G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.238	0.593	No	/
			5.3G WLAN (Main Antenna)	0.355			
		2.4G WLAN (Main Antenna) + 5.3G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.210	0.382	No	/
			5.3G WLAN (Auxiliary Antenna)	0.172			
		5.3G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	5.3G WLAN (Auxiliary Antenna)	0.172	0.527	No	/
			5.3G WLAN (Main Antenna)	0.355			
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Auxiliary Antenna)	0.172	0.268	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
			5.3G WLAN (Main Antenna)	0.355	0.451	No	/

		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	Bluetooth (Auxiliary Antenna)	0.096			
		2.4G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.238	0.504	No	/
			5.6G WLAN (Main Antenna)	0.266			
		2.4G WLAN (Main Antenna) + 5.6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.210	0.442	No	/
			5.6G WLAN (Auxiliary Antenna)	0.232			
		5.6G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	5.6G WLAN (Auxiliary Antenna)	0.232	0.498	No	
			5.6G WLAN (Main Antenna)	0.266			
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Auxiliary Antenna)	0.232	0.328	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Main Antenna)	0.266	0.362	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		2.4G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.238	0.593	No	/
			5.8G WLAN (Main Antenna)	0.355			
		2.4G WLAN (Main Antenna) + 5.8G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.210	0.470	No	/
			5.8G WLAN (Auxiliary Antenna)	0.260			
		5.8G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Auxiliary Antenna)	0.260	0.615	No	/
			5.8G WLAN (Main Antenna)	0.355			
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Auxiliary Antenna)	0.260	0.356	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Main Antenna)	0.355	0.451	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		2.4G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.238	0.542	No	/
			5.9G WLAN (Main Antenna)	0.304			
		2.4G WLAN (Main Antenna) + 5.9G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.210	0.446	No	/
			5.9G WLAN (Auxiliary Antenna)	0.236			
		5.9G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	5.9G WLAN (Auxiliary Antenna)	0.236	0.540	No	/
			5.9G WLAN (Main Antenna)	0.304			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Auxiliary Antenna)	0.236	0.332	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Main Antenna)	0.304	0.400	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		2.4G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.238	0.469	No	/
			6G WLAN (Main Antenna)	0.231			
		2.4G WLAN (Main Antenna) + 6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.210	0.398	No	/
			6G WLAN (Auxiliary Antenna)	0.188			
		6G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	6G WLAN (Auxiliary Antenna)	0.188	0.419	No	/
			6G WLAN (Main Antenna)	0.231			
		6G WLAN (Auxiliary Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Auxiliary Antenna)	0.188	0.284	No	/
			Bluetooth (Auxiliary Antenna)	0.096			
		6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Main Antenna)	0.231	0.327	No	/
			Bluetooth (Auxiliary Antenna)	0.096			

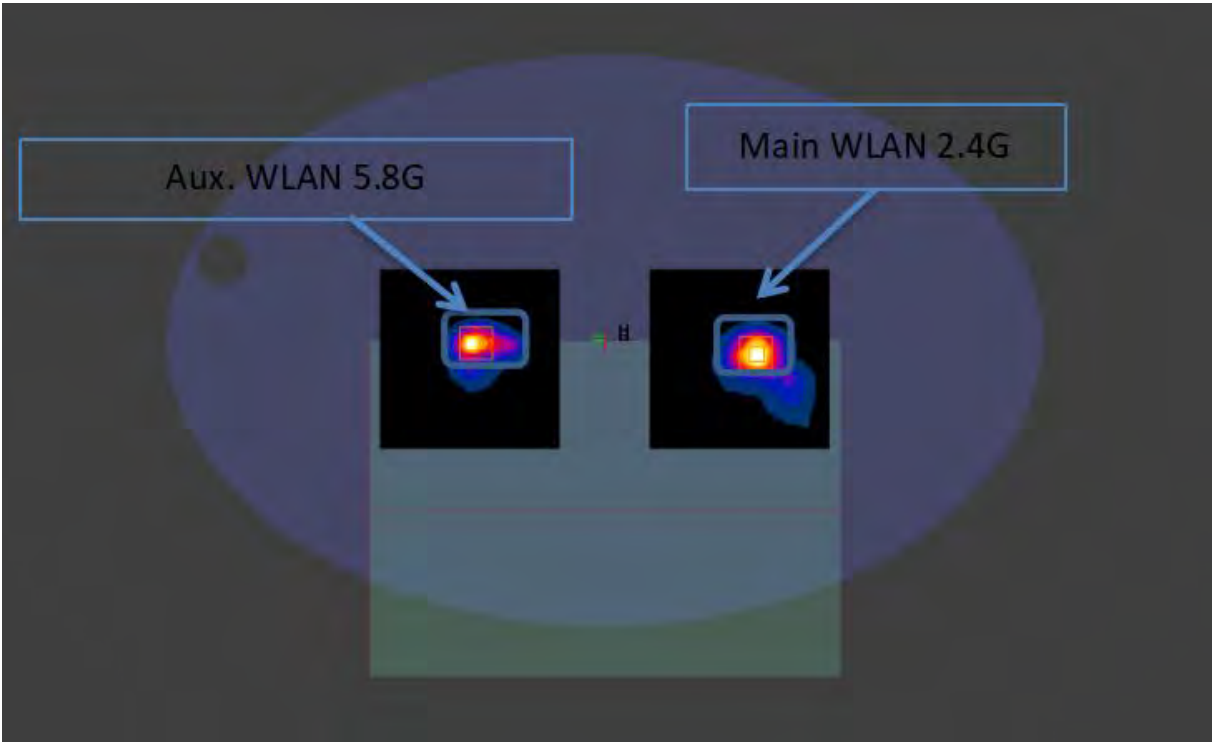
Note:

1: The highest Summed 1g SAR is 2.345 W/Kg > 1.6 W/kg, so Simultaneous Transmission SAR test exclusion is determined by the SAR to peak location separation ratio.

2: The SPLSR is 0.02 < 0.04, so Simultaneous Transmission SAR test is required.

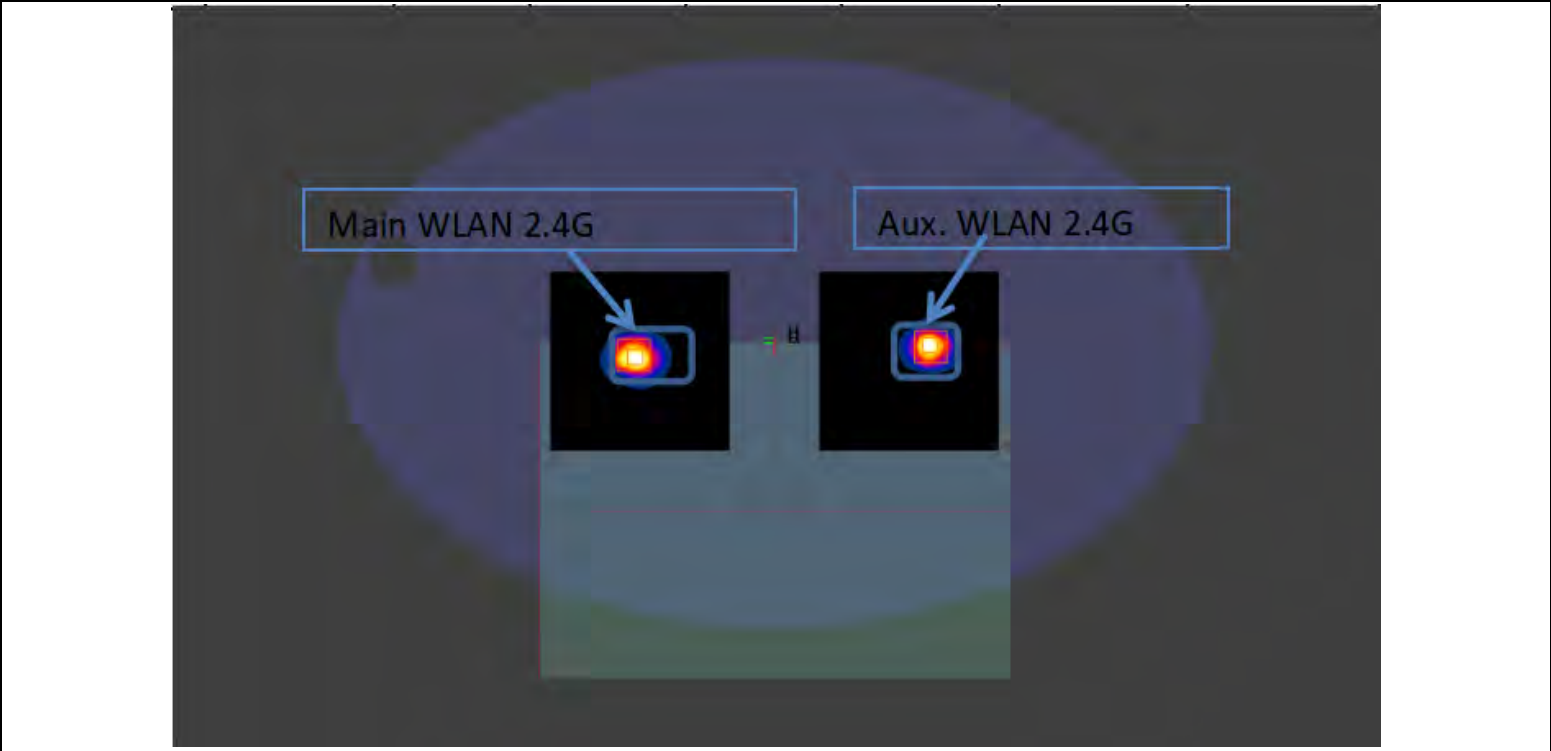
SPLSR Analysis 1#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Laptop	Bottom Side	Aux. WLAN 5.8G	0.884	-0.0025	0.090	-0.174024	192.30	1.62	0.01	No
		Main WLAN 2.4G	0.732	-0.0125	-0.102	-0.174017				



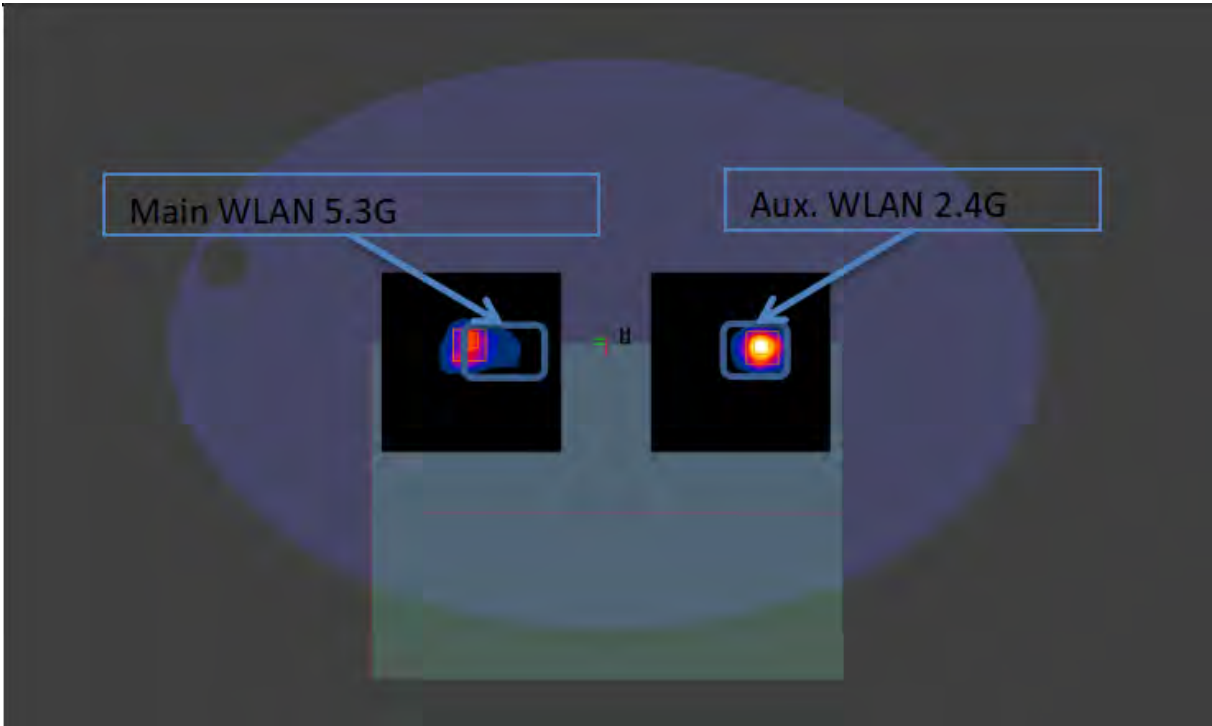
SPLSR Analysis 2#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 2.4G	1.074	-0.0005	-0.102	-0.174018	192.40	2.25	0.02	No
		Main WLAN 2.4G	1.180	-0.0125	0.090	-0.174024				



SPLSR Analysis 3#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 2.4G	1.074	-0.0005	-0.102	-0.174018	192.20	1.76	0.01	No
		Main WLAN 5.3G	0.690	0.0075	0.090	-0.174023				



SPLSR Analysis 4#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.3G	0.628	-0.0225	-0.11	-0.174014	200.20	1.81	0.01	No
		Main WLAN 2.4G	1.180	-0.0125	0.09	-0.174024				

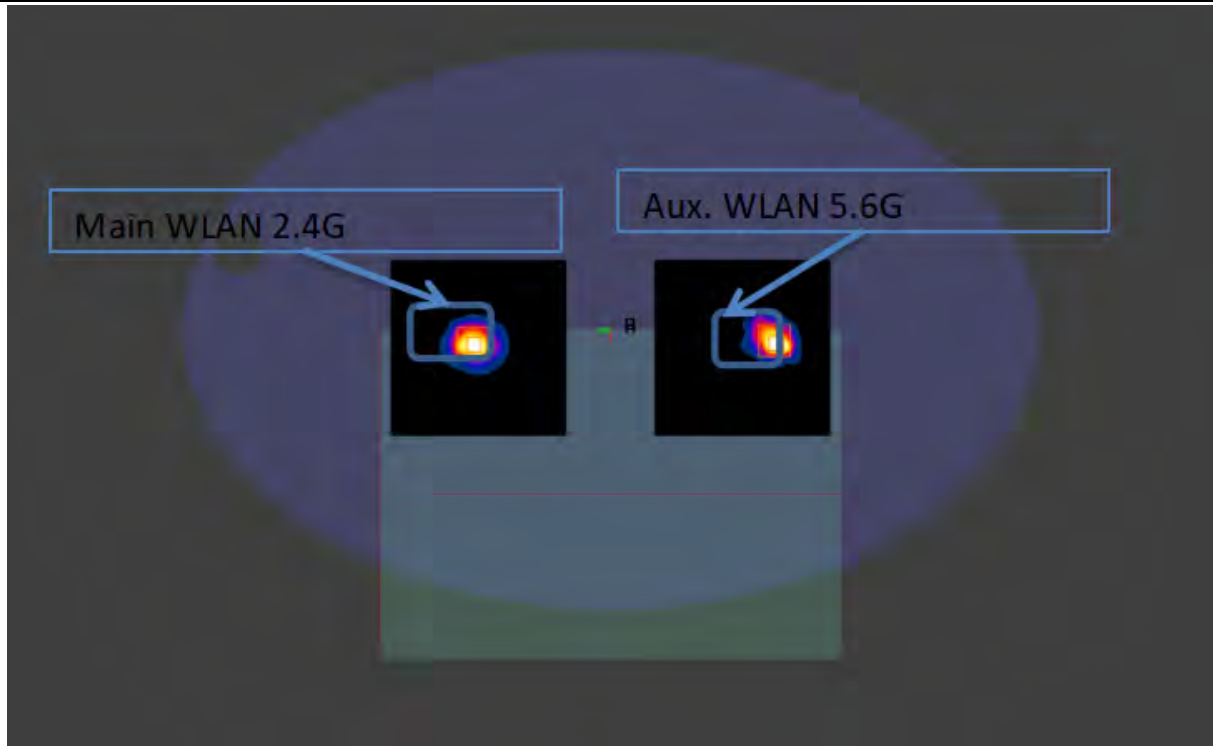
SPLSR Analysis 5#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 2.4G	1.074	-0.0005	-0.102	-0.174018	192.00	1.77	0.01	No
		Main WLAN 5.6G	0.700	-0.0025	0.090	-0.174024				



SPLSR Analysis 6#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.6G	1.009	-0.0125	-0.11	-0.174016	200.00	2.19	0.02	No
		Main WLAN 2.4G	1.180	-0.0125	0.09	-0.174024				



SPLSR Analysis 7#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.6G	1.009	-0.0125	-0.11	-0.174016	200.20	1.71	0.01	No
		Main WLAN 5.6G	0.700	-0.0025	0.09	-0.174024				



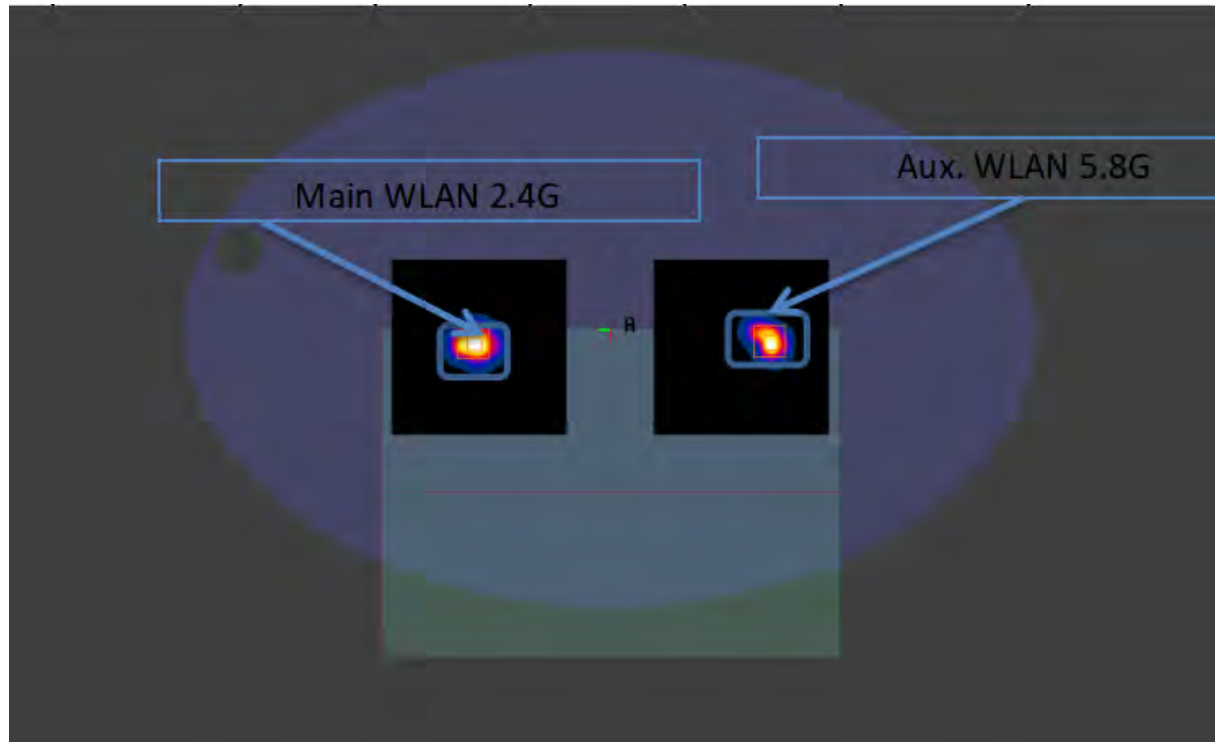
SPLSR Analysis 8#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 2.4G	1.074	-0.0005	-0.102	-0.174018	192.00	2.08	0.02	No
		Main WLAN 5.8G	1.004	-0.0025	0.090	-0.174024				



SPLSR Analysis 9#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.8G	0.746	-0.0125	-0.11	-0.174016	200.00	1.93	0.01	No
		Main WLAN 2.4G	1.180	-0.0125	0.09	-0.174024				



SPLSR Analysis 10#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.8G	0.746	-0.0125	-0.11	-0.174016	200.20	1.75	0.01	No
		Main WLAN 5.8G	1.004	-0.0025	0.09	-0.174024				



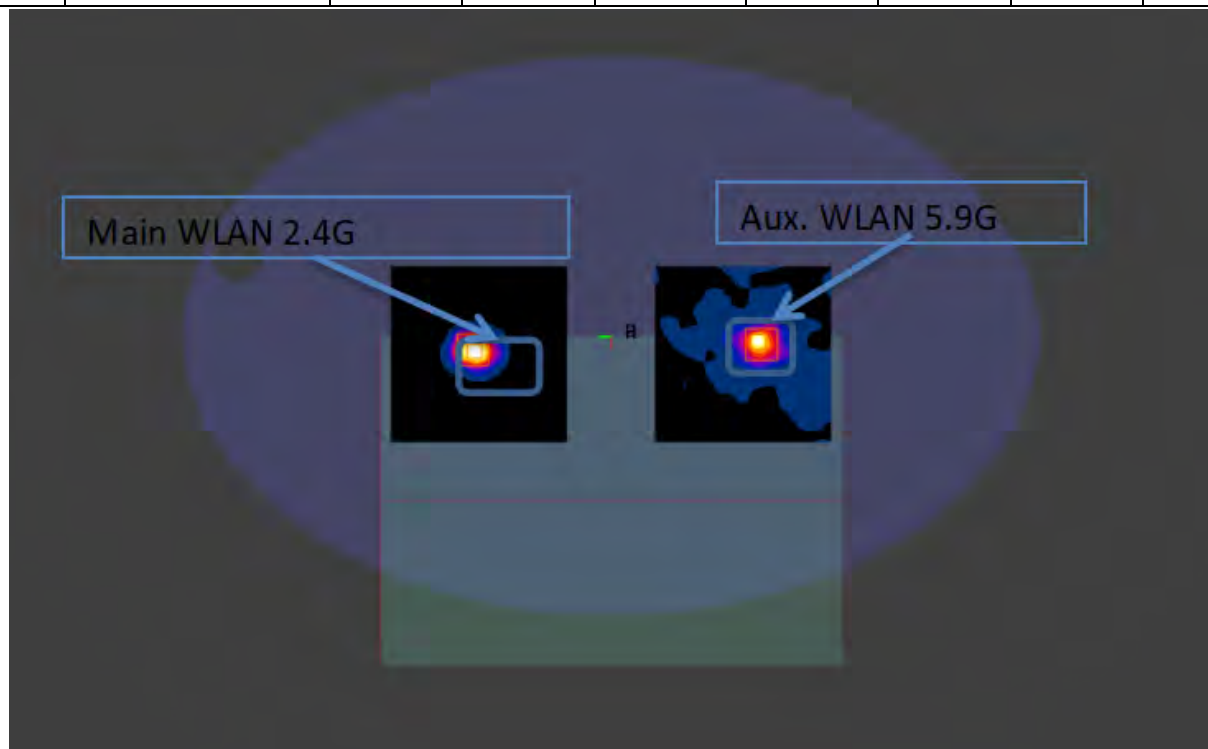
SPLSR Analysis 11#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 2.4G	1.074	-0.0005	-0.102	-0.174018	192.40	1.95	0.01	No
		Main WLAN 5.9G	0.877	-0.0125	0.090	-0.174025				



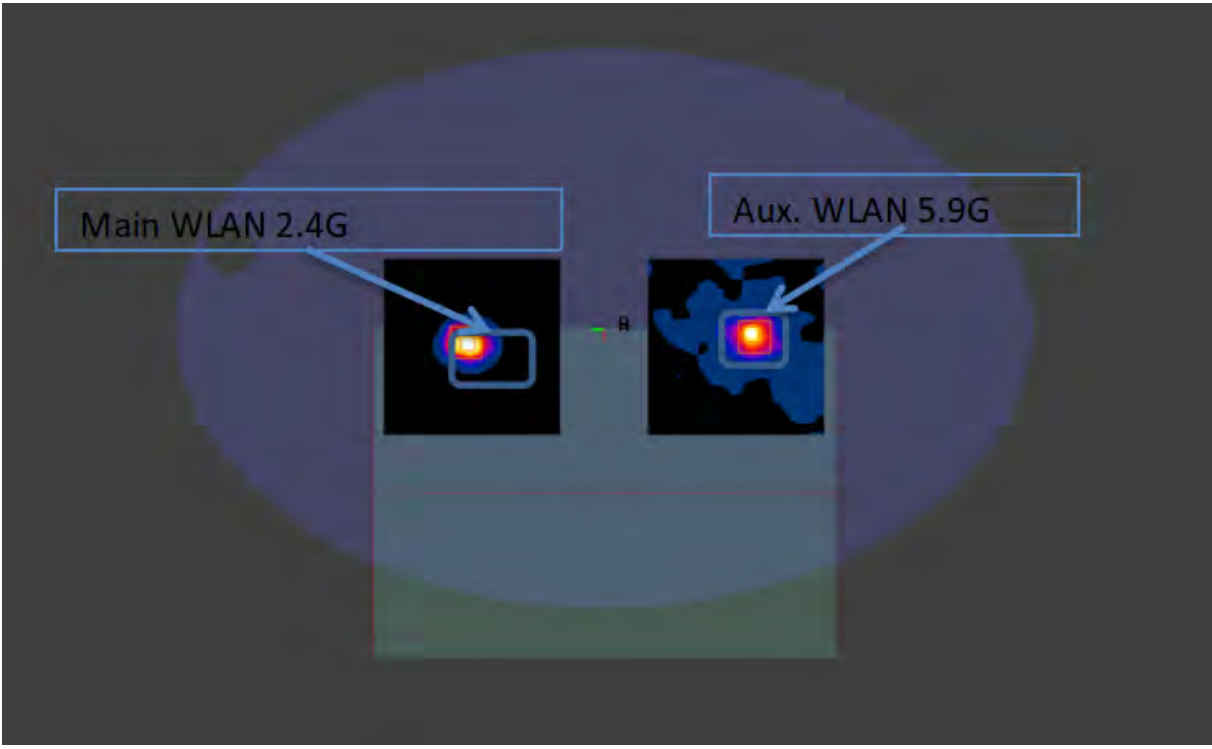
SPLSR Analysis 12#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.9G	0.826	-0.0025	-0.10	-0.174019	190.30	2.01	0.01	No
		Main WLAN 2.4G	1.180	-0.0125	0.09	-0.174024				



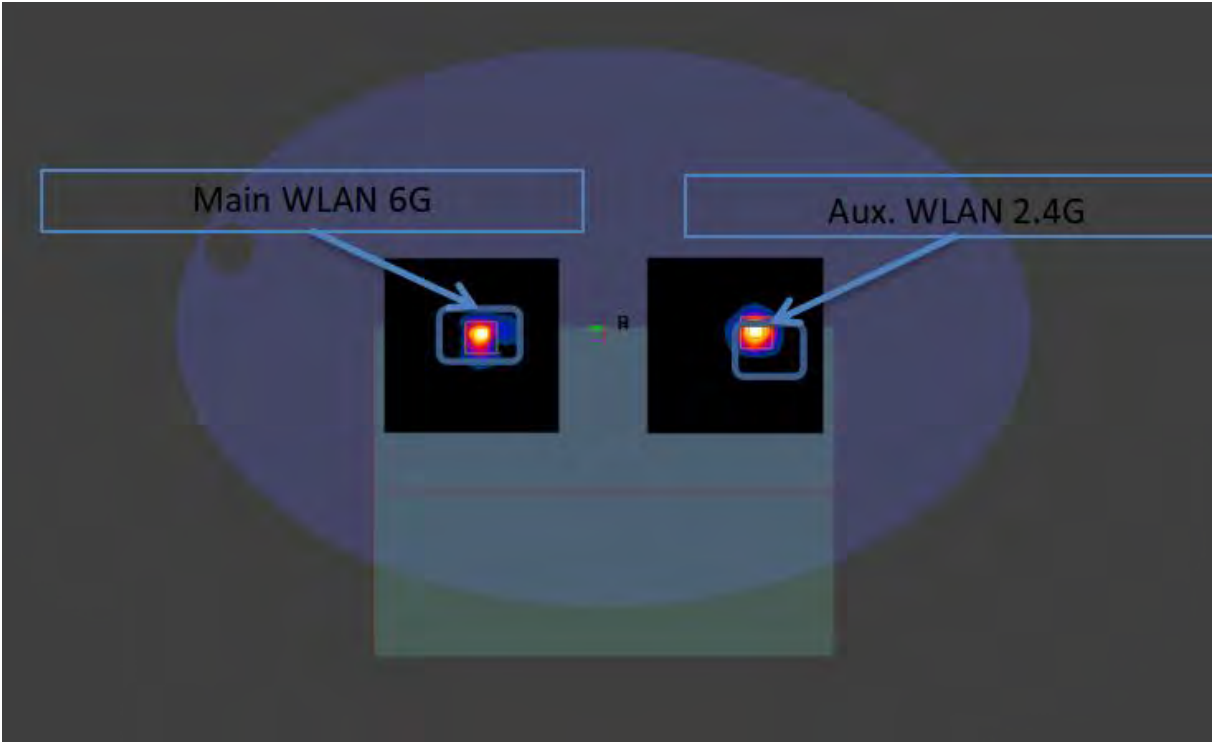
SPLSR Analysis 13#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 5.9G	0.826	-0.0025	-0.10	-0.174019	190.30	1.70	0.01	No
		Main WLAN 5.9G	0.877	-0.0125	0.09	-0.174025				



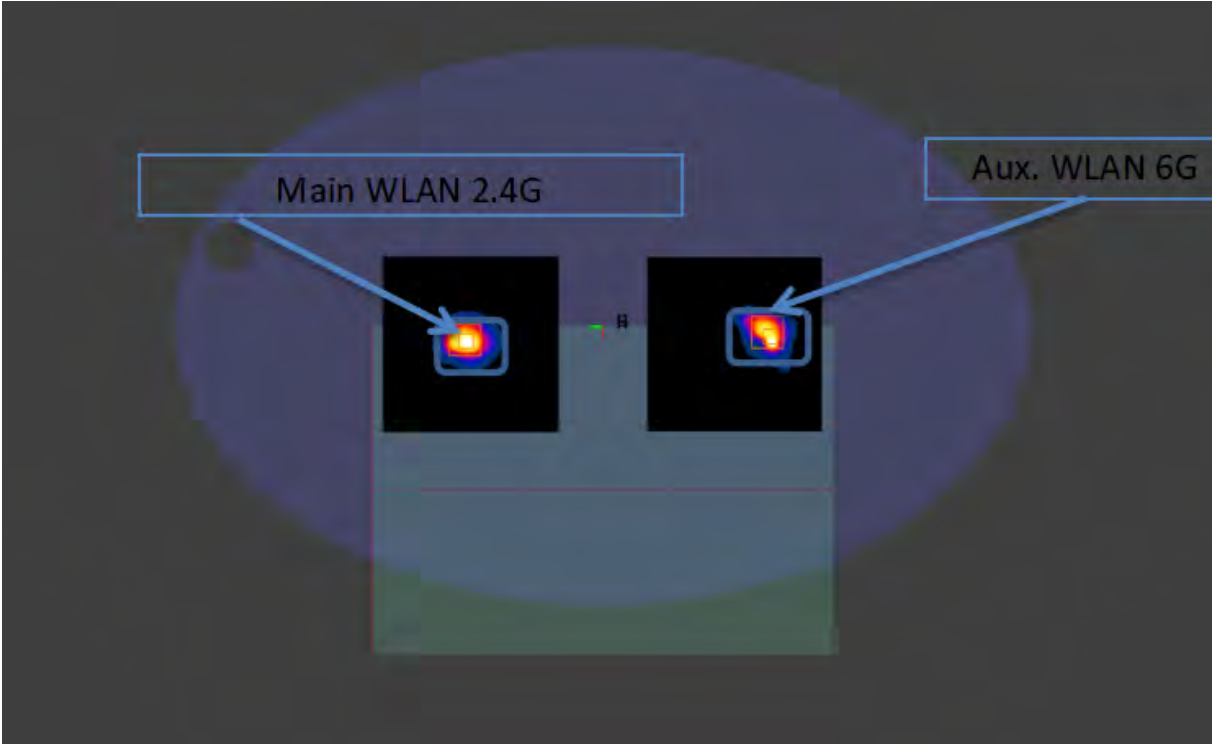
SPLSR Analysis 14#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 2.4G	1.074	-0.0005	-0.1020	-0.174018	183.50	2.24	0.02	No
		Main WLAN 6G	1.165	-0.0040	0.0815	-0.174025				



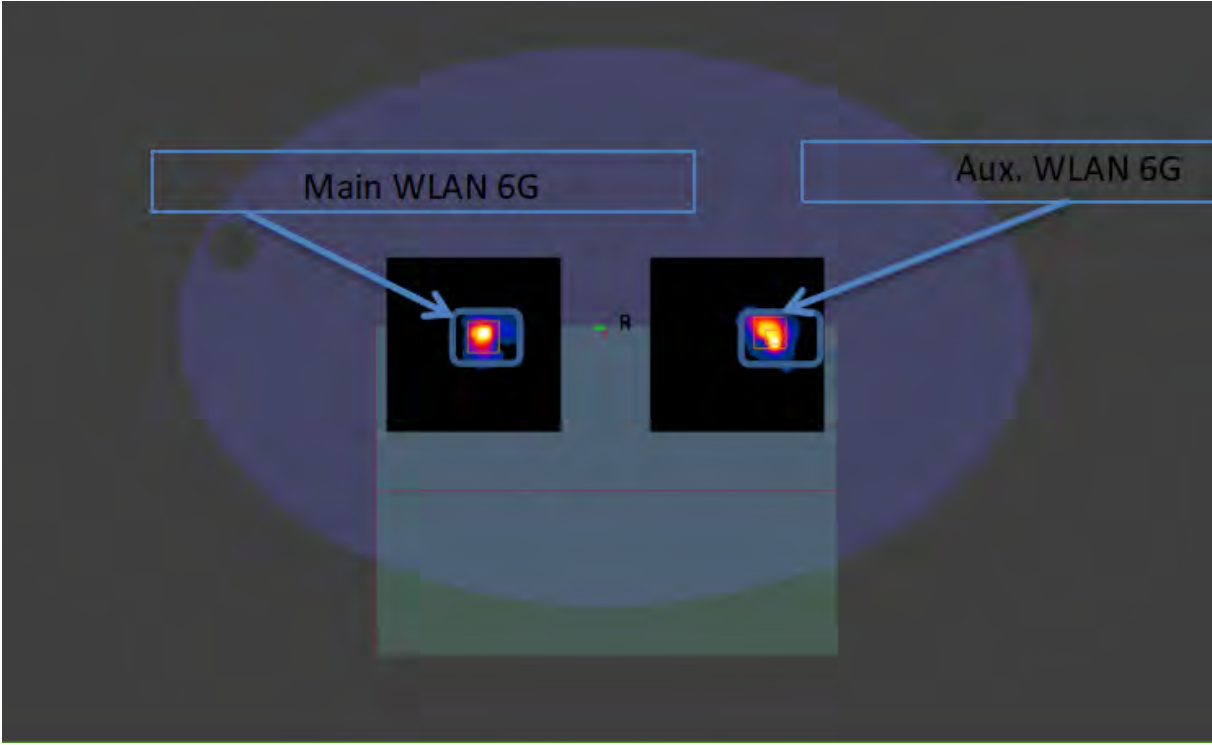
SPLSR Analysis 15#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 6G	1.165	-0.0125	-0.1155	-0.174015	205.50	2.35	0.02	No
		Main WLAN 2.4G	1.180	-0.0125	0.0900	-0.174024				



SPLSR Analysis 16#

Test Mode	Position	Antenna	Reported 1g Max. SAR (W/kg)	Coordinates (m)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR Test (Yes/No)
				X	Y	Z				
Tablet	Back Side	Aux. WLAN 6G	1.165	-0.0125	-0.1155	-0.174015	197.20	2.33	0.02	No
		Main WLAN 6G	1.165	-0.004	0.0815	-0.174025				



12.2.2 Limbs Simultaneous Transmission SAR Evaluation for WLAN Antenna with Bluetooth

Test Mode	Position	Simultaneous Mode	Mode	Max. 10g SAR	10g Sum SAR	SPLSR	SPLSR	Limit 10g (W/Kg)
				(W/kg)	(W/kg)	(Yes/No)	Num.	
Limbs (0 mm)								
Laptop	Front Edge of Keyboard	2.4 G WLAN (Auxiliary Antenna) + 2.4 G WLAN (Main Antenna)	2.4 G WLAN (Auxiliary Antenna)	0.336	0.580	No	/	4
			2.4 G WLAN (Main Antenna)	0.244				
		2.4 G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	2.4 G WLAN (Main Antenna)	0.244	0.337	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		2.4G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.336	0.734	No	/	
			5.3G WLAN (Main Antenna)	0.398				
		2.4G WLAN (Main Antenna) + 5.3G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.244	0.461	No	/	
			5.3G WLAN (Auxiliary Antenna)	0.217				
		5.3G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	5.3G WLAN (Auxiliary Antenna)	0.217	0.615	No	/	
			5.3G WLAN (Main Antenna)	0.398				
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Auxiliary Antenna)	0.217	0.310	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Main Antenna)	0.398	0.491	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		2.4G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.336	0.687	No	/	
			5.6G WLAN (Main Antenna)	0.351				
		2.4G WLAN (Main Antenna) + 5.6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.244	0.505	No	/	
			5.6G WLAN (Auxiliary Antenna)	0.261				
		5.6G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	5.6G WLAN (Auxiliary Antenna)	0.261	0.612	No	/	
			5.6G WLAN (Main Antenna)	0.351				
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Auxiliary Antenna)	0.261	0.354	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Main Antenna)	0.351	0.444	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		2.4G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.336	0.650	No	/	
			5.8G WLAN (Main Antenna)	0.314				
		2.4G WLAN (Main Antenna) + 5.8G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.244	0.505	No	/	
			5.8G WLAN (Auxiliary Antenna)	0.261				
		5.8G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Auxiliary Antenna)	0.261	0.575	No	/	
			5.8G WLAN (Main Antenna)	0.314				
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Auxiliary Antenna)	0.261	0.354	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Main Antenna)	0.314	0.407	No	/	
			Bluetooth (Auxiliary Antenna)	0.093				
		2.4G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.336	0.723	No	/	
			5.9G WLAN (Main Antenna)	0.387				
				2.4G WLAN (Main Antenna)	0.244	0.540	No	

		2.4G WLAN (Main Antenna) + 5.9G WLAN (Auxiliary Antenna)	5.9G WLAN (Auxiliary Antenna)	0.296			
		5.9G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	5.9G WLAN (Auxiliary Antenna)	0.296	0.683	No	/
			5.9G WLAN (Main Antenna)	0.387			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Auxiliary Antenna)	0.296	0.389	No	/
			Bluetooth (Auxiliary Antenna)	0.093			
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Main Antenna)	0.387	0.480	No	/
			Bluetooth (Auxiliary Antenna)	0.093			
		2.4G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	0.336	0.550	No	/
			6G WLAN (Main Antenna)	0.214			
		2.4G WLAN (Main Antenna) + 6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	0.244	0.470	No	/
			6G WLAN (Auxiliary Antenna)	0.226			
Laptop	Palm rest Side of Keyboard	6G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	6G WLAN (Auxiliary Antenna)	0.226	0.440	No	/
			6G WLAN (Main Antenna)	0.214			
		6G WLAN (Auxiliary Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Auxiliary Antenna)	0.226	0.319	No	/
			Bluetooth (Auxiliary Antenna)	0.093			
		6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Main Antenna)	0.214	0.307	No	/
			Bluetooth (Auxiliary Antenna)	0.093			
		2.4 G WLAN (Auxiliary Antenna) + 2.4 G WLAN (Main Antenna)	2.4 G WLAN (Auxiliary Antenna)	1.111	2.250	No	/
			2.4 G WLAN (Main Antenna)	1.139			
		2.4 G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	2.4 G WLAN (Main Antenna)	1.139	1.493	No	/
			Bluetooth (Auxiliary Antenna)	0.354			
		2.4G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.111	1.735	No	/
			5.3G WLAN (Main Antenna)	0.624			
		2.4G WLAN (Main Antenna) + 5.3G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.139	1.628	No	/
			5.3G WLAN (Auxiliary Antenna)	0.489			
		5.3G WLAN (Auxiliary Antenna) + 5.3G WLAN (Main Antenna)	5.3G WLAN (Auxiliary Antenna)	0.489	1.113	No	/
			5.3G WLAN (Main Antenna)	0.624			
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Auxiliary Antenna)	0.489	0.843	No	/
			Bluetooth (Auxiliary Antenna)	0.354			
		5.3G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.3G WLAN (Main Antenna)	0.624	0.978	No	/
			Bluetooth (Auxiliary Antenna)	0.354			
		2.4G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.111	1.619	No	/
			5.6G WLAN (Main Antenna)	0.508			
		2.4G WLAN (Main Antenna) + 5.6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.139	1.728	No	/
			5.6G WLAN (Auxiliary Antenna)	0.589			
		5.6G WLAN (Auxiliary Antenna) + 5.6G WLAN (Main Antenna)	5.6G WLAN (Auxiliary Antenna)	0.589	1.097	No	/
			5.6G WLAN (Main Antenna)	0.508			
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Auxiliary Antenna)	0.589	0.943	No	/
			Bluetooth (Auxiliary Antenna)	0.354			
		5.6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.6G WLAN (Main Antenna)	0.508	0.862	No	/
			Bluetooth (Auxiliary Antenna)	0.354			
			2.4G WLAN (Auxiliary Antenna)	1.111	1.922	No	/

		2.4G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Main Antenna)	0.811				
		2.4G WLAN (Main Antenna) + 5.8G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.139	1.820	No	/	
			5.8G WLAN (Auxiliary Antenna)	0.681				
		5.8G WLAN (Auxiliary Antenna) + 5.8G WLAN (Main Antenna)	5.8G WLAN (Auxiliary Antenna)	0.681	1.492	No	/	
			5.8G WLAN (Main Antenna)	0.811				
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Auxiliary Antenna)	0.681	1.035	No	/	
			Bluetooth (Auxiliary Antenna)	0.354				
		5.8G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.8G WLAN (Main Antenna)	0.811	1.165	No	/	
			Bluetooth (Auxiliary Antenna)	0.354				
		2.4G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.111	1.941	No	/	
			5.9G WLAN (Main Antenna)	0.830				
		2.4G WLAN (Main Antenna) + 5.9G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.139	1.938	No	/	
			5.9G WLAN (Auxiliary Antenna)	0.799				
		5.9G WLAN (Auxiliary Antenna) + 5.9G WLAN (Main Antenna)	5.9G WLAN (Auxiliary Antenna)	0.799	1.629	No	/	
			5.9G WLAN (Main Antenna)	0.830				
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Auxiliary Antenna)	0.799	1.153	No	/	
			Bluetooth (Auxiliary Antenna)	0.354				
		5.9G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	5.9G WLAN (Main Antenna)	0.830	1.184	No	/	
			Bluetooth (Auxiliary Antenna)	0.354				
		2.4G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	2.4G WLAN (Auxiliary Antenna)	1.111	1.549	No	/	
			6G WLAN (Main Antenna)	0.438				
		2.4G WLAN (Main Antenna) + 6G WLAN (Auxiliary Antenna)	2.4G WLAN (Main Antenna)	1.139	1.681	No	/	
			6G WLAN (Auxiliary Antenna)	0.542				
		6G WLAN (Auxiliary Antenna) + 6G WLAN (Main Antenna)	6G WLAN (Auxiliary Antenna)	0.542	0.980	No	/	
			6G WLAN (Main Antenna)	0.438				
		6G WLAN (Auxiliary Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Auxiliary Antenna)	0.542	0.896	No	/	
			Bluetooth (Auxiliary Antenna)	0.354				
		6G WLAN (Main Antenna) + Bluetooth (Auxiliary Antenna)	6G WLAN (Main Antenna)	0.438	0.792	No	/	
			Bluetooth (Auxiliary Antenna)	0.354				

Note:

1: The highest Summed 10g SAR is 2.250 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is required.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY6	16.0.0.116	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/18
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/17
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2021/07/01	2024/07/01
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/03
Data Acquisition Electronicsr	Speag	DAE4	SN: 878	2023/03/23	2024/03/22
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/09
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/04
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4	EF5238001629	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002655	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2159	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2023.12.01	Head	2450	21.2	1.82	39.20	1.80	39.20	1.17	0.00
2023.12.02	Head	5250	21.3	4.70	35.97	4.71	35.93	-0.21	0.11
2023.12.03	Head	5600	21.5	5.06	35.19	5.07	35.53	-0.28	-0.96
2023.12.04	Head	5750	21.8	5.18	35.54	5.22	35.36	-0.84	0.51
2022.12.05	Head	6500	21.5	6.17	34.35	6.07	34.46	1.58	-0.33
Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 % (for 1 g).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2023.12.01	Head	2450	100	5.25	52.50	53.00	-0.94
2023.12.02	Head	5250	100	7.73	77.30	77.80	-0.64
2023.12.03	Head	5600	100	8.22	82.20	81.20	1.23
2023.12.04	Head	5750	100	7.62	76.20	77.20	-1.30
2022.12.05	Head	6500	100	27.30	273.00	286.00	-4.55

Note: The tolerance limit of System validation $\pm 10\%$.

Head liquid 10g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2023.12.01	Head	2450	100	2.37	23.70	24.10	-1.66
2023.12.02	Head	5250	100	2.26	22.60	22.10	2.26
2023.12.03	Head	5600	100	2.20	22.00	23.10	-4.76
2023.12.04	Head	5750	100	2.17	21.70	21.70	0.00
2022.12.05	Head	6500	100	5.05	50.50	52.60	-3.99

Note: The tolerance limit of System validation $\pm 10\%$.

System Performance Check Data (2450MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D2450V2, SPEAG	40.0 x 8.0 x 8.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D2450	CW, 0--	2450.0, 2450	7.47	1.82	39.2	22.1	21.2

Hardware Setup

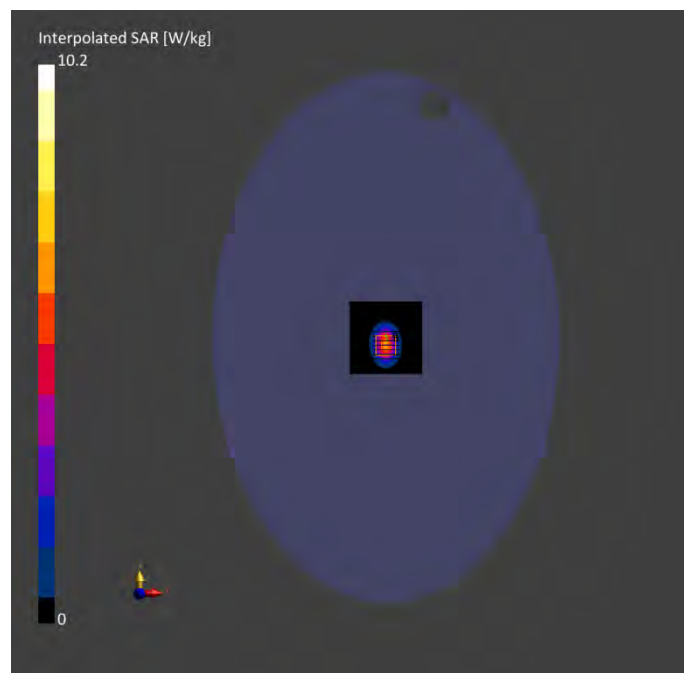
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	5.21	5.25
psSAR10g [W/kg]	2.38	2.37
Power Drift [dB]	0.06	0.13
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.4
Dist 3dB Peak [mm]		8.8



System Performance Check Data (5250MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D5GHz	CW, 0--	5250.0, 5250	5.41	4.70	36.0	22.3	21.3

Hardware Setup

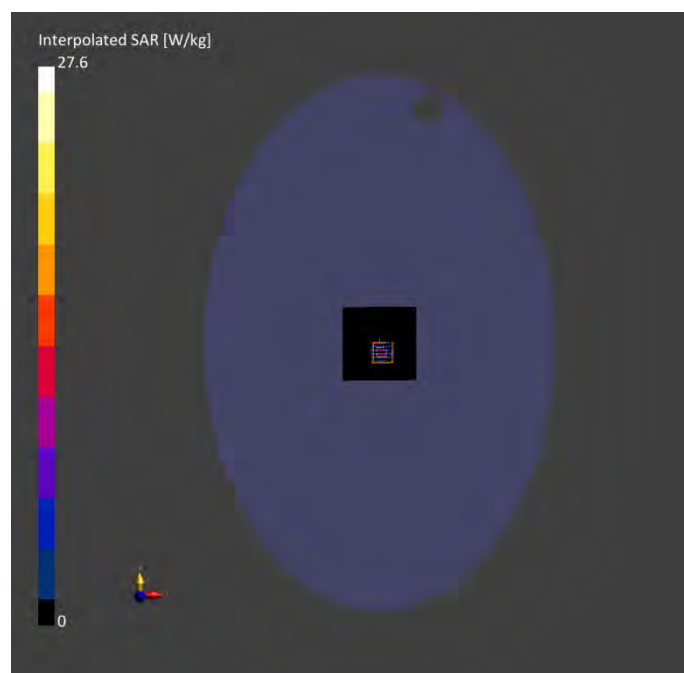
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2023-12-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-02	2023-12-02
psSAR1g [W/kg]	7.55	7.73
psSAR10g [W/kg]	2.18	2.26
Power Drift [dB]	-0.14	0.06
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		8.5



System Performance Check Data (5600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHzV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom	Position, Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D5GHz	CW, 0--	5600.0, 5600	4.58	5.06	35.2	22.3	21.5

Hardware Setup

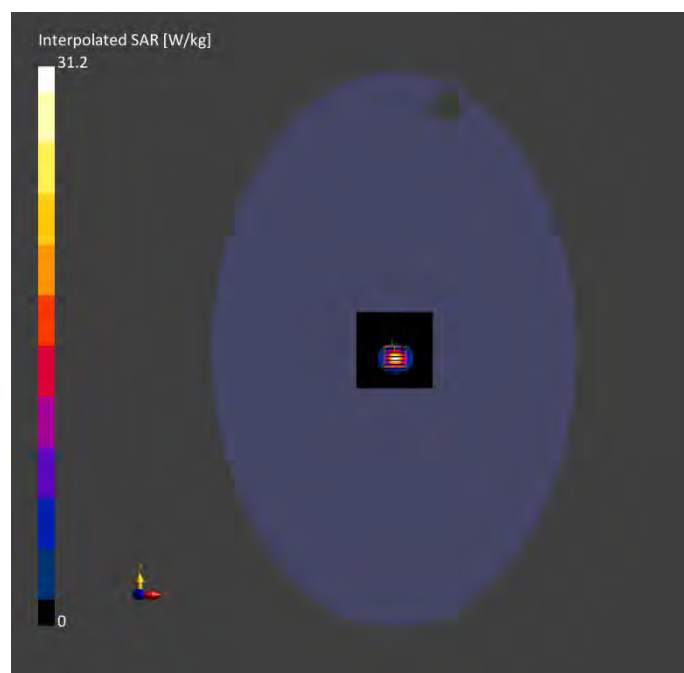
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2023-12-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-03	2023-12-03
psSAR1g [W/kg]	8.07	8.22
psSAR10g [W/kg]	2.16	2.20
Power Drift [dB]	-0.03	0.16
Power Scaling	Disabled	Disabled
Scaling Factor		
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		7.4



System Performance Check Data (5750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHzV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D5GHz	CW, 0--	5750.0, 5750	4.78	5.18	35.5	22.2	21.8

Hardware Setup

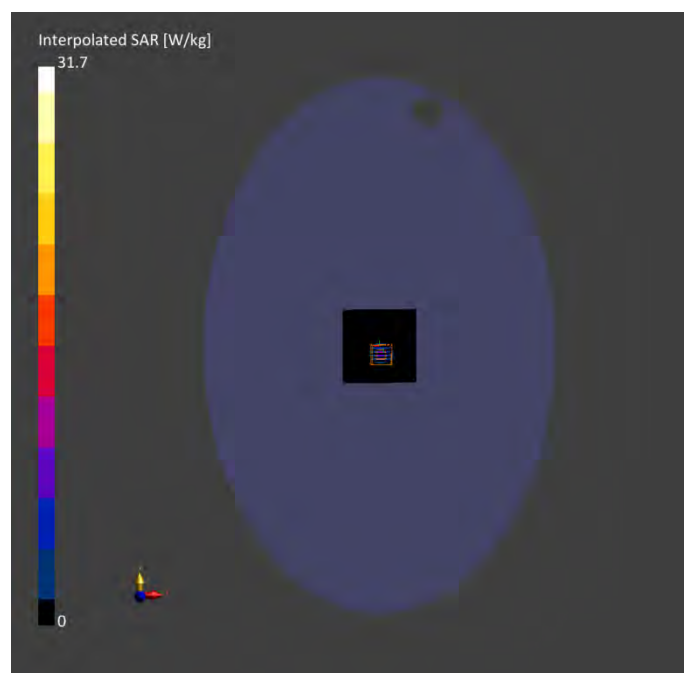
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	6.98	7.62
psSAR10g [W/kg]	1.96	2.17
Power Drift [dB]	0.05	0.08
Power Scaling	Disabled	Disabled
Scaling Factor		
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		8.1



System Performance Check Data (6500MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D6.5GHzV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom	Position, Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		Validation band	CW, 0--	6500.0, 6500	5.38	6.17	34.3	22.5	21.5

Hardware Setup

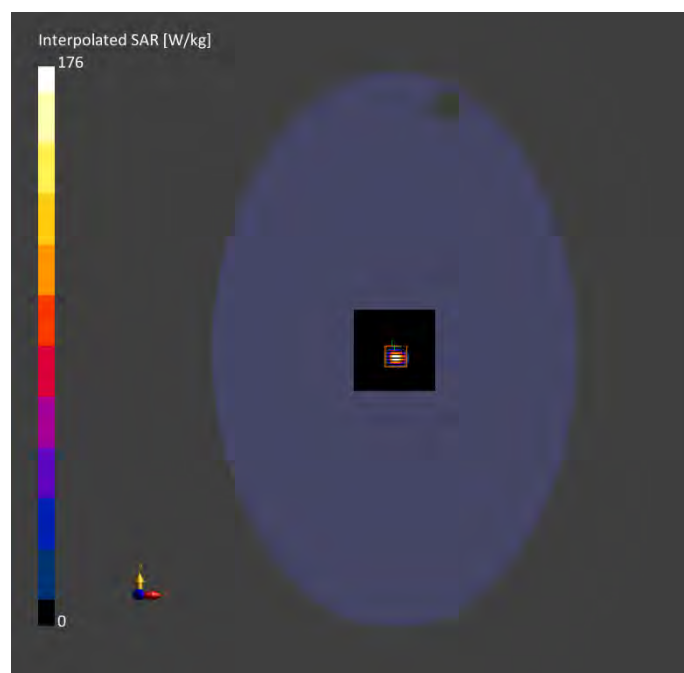
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2023-12-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-05	2023-12-05
psSAR1g [W/kg]	24.9	27.3
psSAR10g [W/kg]	4.88	5.05
APD 4cm ² [W/m ²]		133
Power Drift [dB]	0.12	0.17
Power Scaling	Disabled	Disabled
Scaling Factor		
TSL Correction	No correction	No correction
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		4.9



ANNEX C TEST DATA

Meas.1 Body Plane with Back Side 0mm on 39 Channel in Bluetooth mode with Antenna Auxiliary Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2402.0, 0	7.47	1.77	40.0	22.1	21.2

Hardware Setup

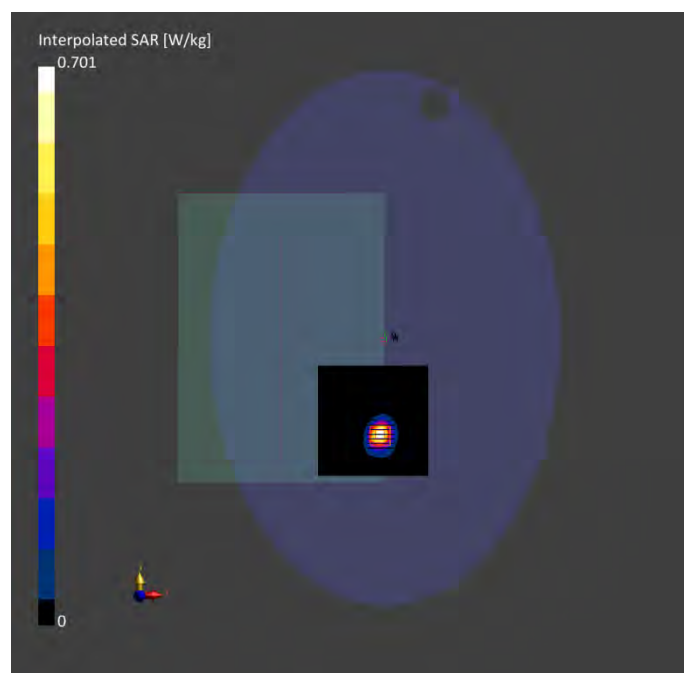
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	0.246	0.261
psSAR10g [W/kg]	0.114	0.119
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		9.4



Meas.2 Limbs Plane with Palm rest Side 0mm on 39 Channel in Bluetooth mode with Antenna Auxiliary Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth , 10032-CAA	2441.0, 39	7.47	1.81	39.4	22.1	21.2

Hardware Setup

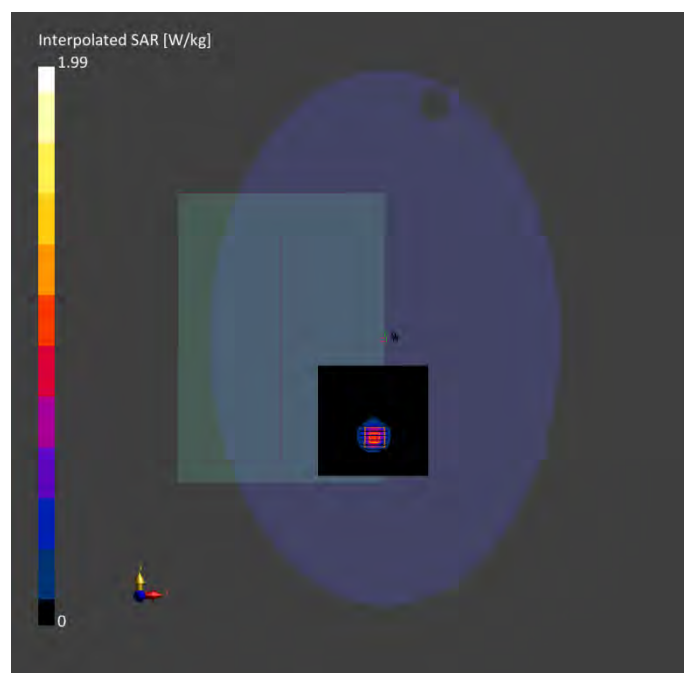
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 , 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	0.486	0.505
psSAR10g [W/kg]	0.214	0.239
Power Drift [dB]	0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.7
Dist 3dB Peak [mm]		8.0



Meas.3 Body Plane with Back Side 0mm on 1 Channel in IEEE802.11b mode with Antenna Auxiliary Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2412.0, 1	7.47	1.78	39.8	22.1	21.2

Hardware Setup

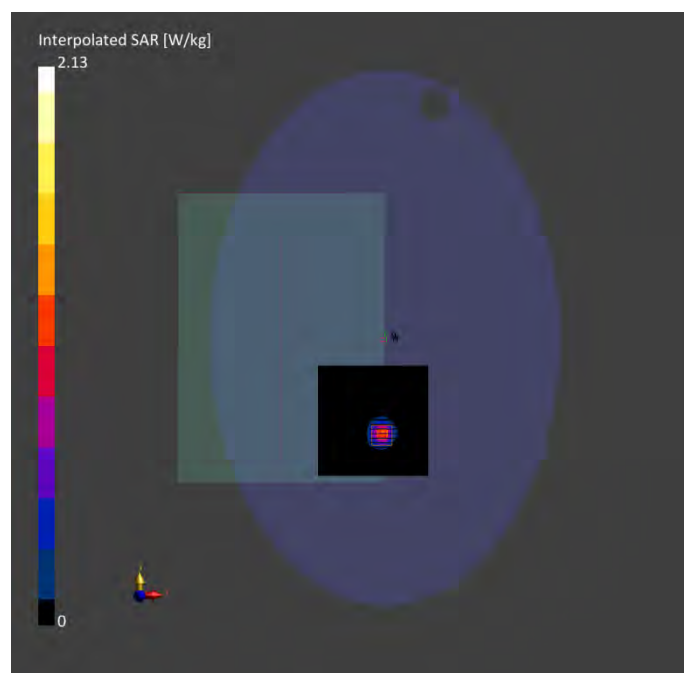
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	0.947	1.03
psSAR10g [W/kg]	0.405	0.435
Power Drift [dB]	-0.02	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.9
Dist 3dB Peak [mm]		7.8



Meas.4 Body Plane with Back Side 0mm on 1 Channel in IEEE802.11b mode with Antenna Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2412.0, 1	7.47	1.78	39.8	22.1	21.2

Hardware Setup

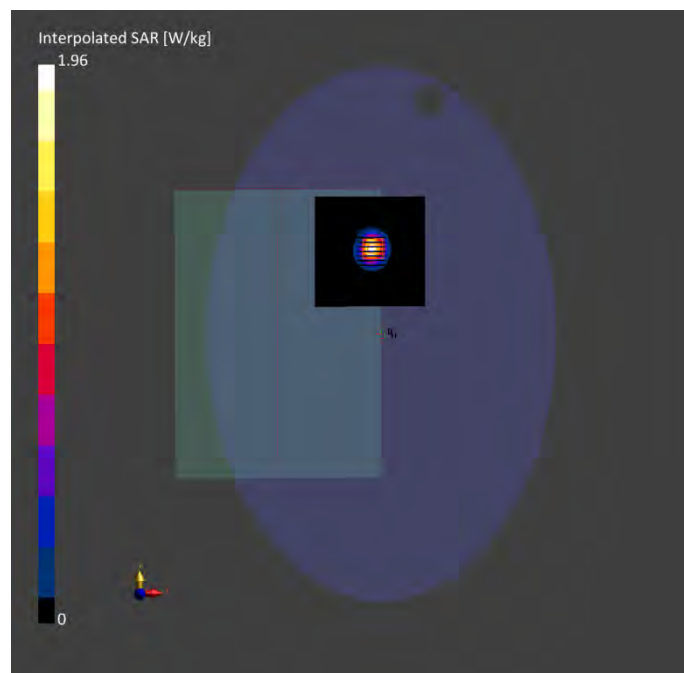
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	1.02	1.09
psSAR10g [W/kg]	0.460	0.489
Power Drift [dB]	0.04	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		9.9



Meas.5 Limbs Plane with Palm rest Side 0mm on 11 Channel in IEEE802.11b mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN 10012-CAB	2462.0, 11	7.47	1.84	39.0	22.1	21.2

Hardware Setup

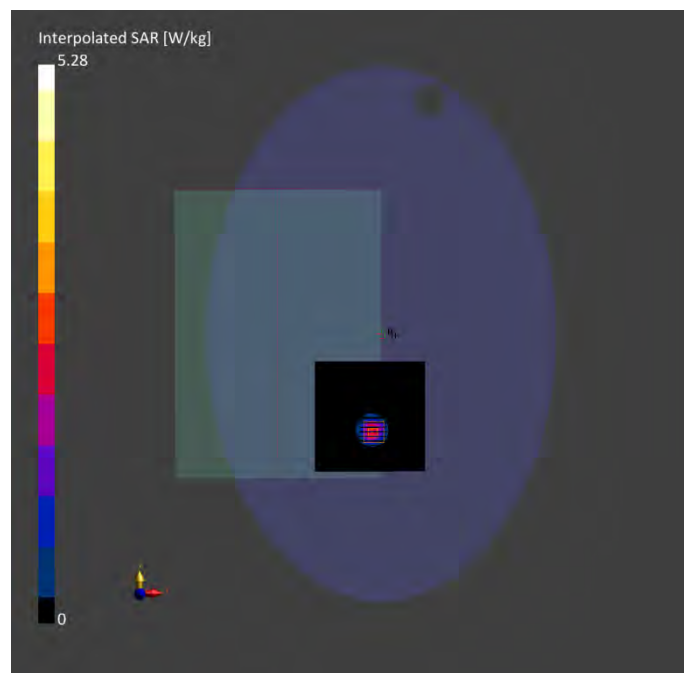
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 , 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	2.19	2.51
psSAR10g [W/kg]	0.990	1.07
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		8.1



Meas.6 Limbs Plane with Palm rest Side 0mm on 6 Channel in IEEE802.11b mode with Antenna Main Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.0, 6	7.47	1.80	39.6	22.1	21.2

Hardware Setup

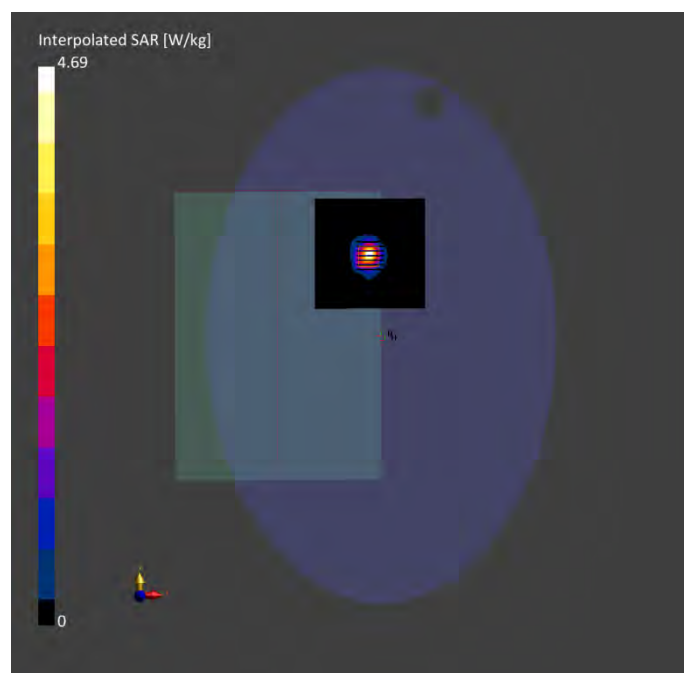
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-01	2023-12-01
psSAR1g [W/kg]	2.50	2.48
psSAR10g [W/kg]	1.08	1.11
Power Drift [dB]	0.03	0.05
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		9.4



Meas.7 Body Plane with Back Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10545- AAC	5290.0, 58	5.41	4.79	35.5	22.3	21.3

Hardware Setup

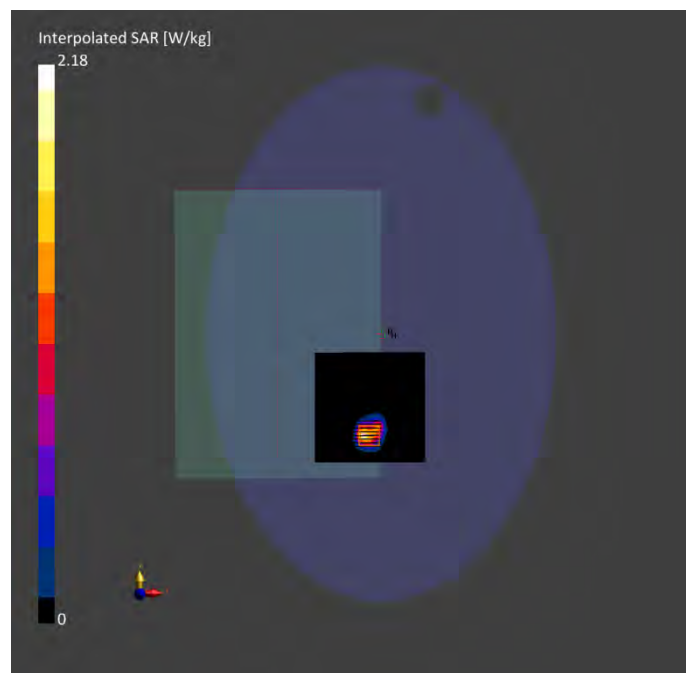
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-02	2023-12-02
psSAR1g [W/kg]	0.452	0.576
psSAR10g [W/kg]	0.158	0.177
Power Drift [dB]	-0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		6.2



Meas.8 Body Plane with Back Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Main Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN, 5GHz	WLAN, 10544-AAC	5290.0, 58	5.41	4.79	35.5	22.3	21.3

Hardware Setup

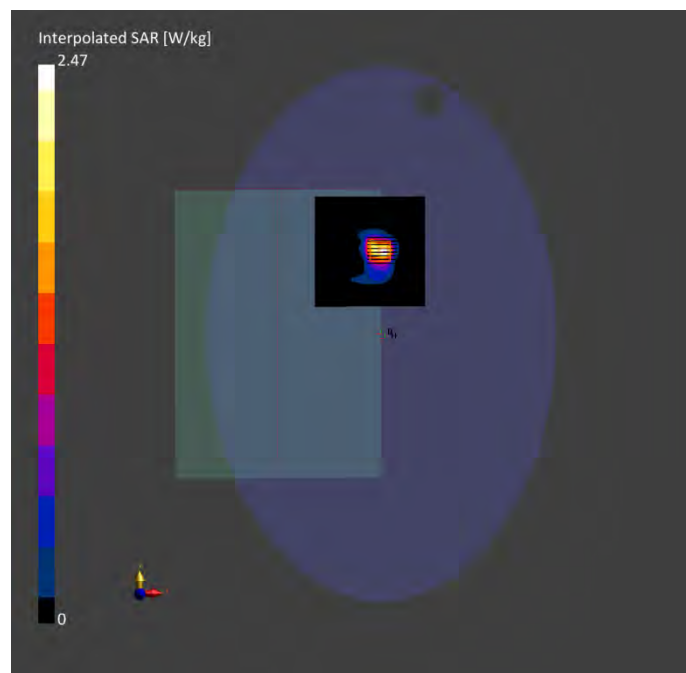
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-02	2023-12-02
psSAR1g [W/kg]	0.512	0.621
psSAR10g [W/kg]	0.199	0.209
Power Drift [dB]	-0.05	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		6.2



Meas.9 Limbs Plane with Palm rest Side 0mm on 62 Channel in IEEE802.11n40 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10534- AAC	5310.0, 62	5.41	4.83	35.2	22.3	21.3

Hardware Setup

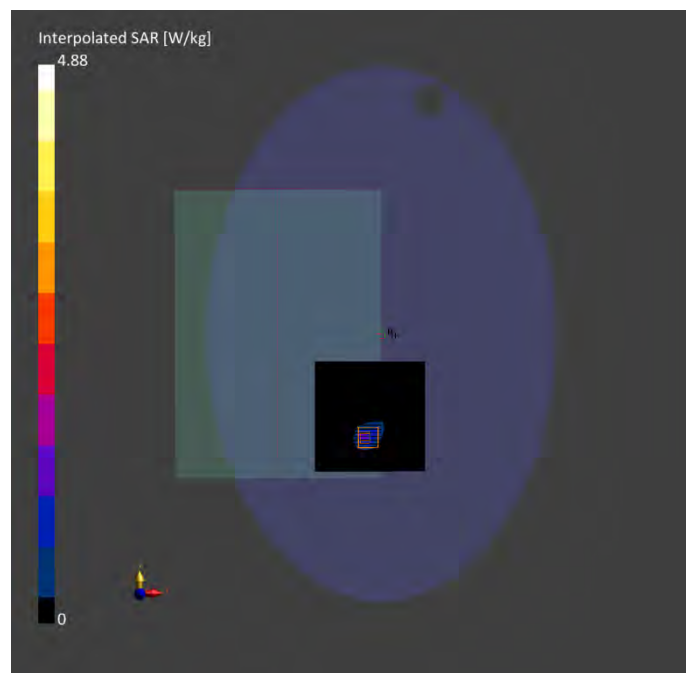
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-02	2023-12-02
psSAR1g [W/kg]	1.01	1.33
psSAR10g [W/kg]	0.364	0.457
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		6.1



Meas.10 Limbs Plane with Palm rest Side 0mm on 54 Channel in IEEE802.11n40 mode with Antenna Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10534- AAC	5270.0, 54	5.41	4.74	35.7	22.3	21.3

Hardware Setup

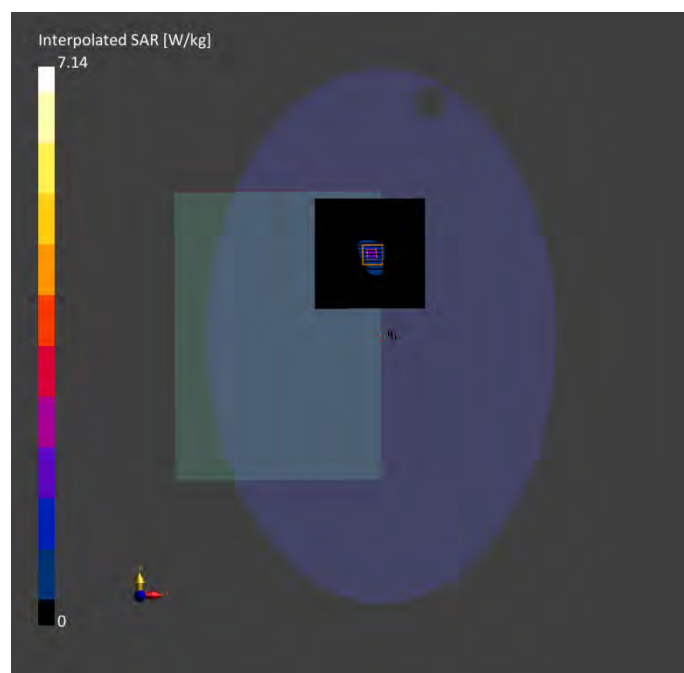
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-02	2023-12-02
psSAR1g [W/kg]	1.61	1.81
psSAR10g [W/kg]	0.537	0.570
Power Drift [dB]	0.02	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		5.7



Meas.11 Body Plane with Back Side 0mm on 114 Channel in IEEE802.11ac160 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10554- AAD	5570.0, 114	4.58	5.0	35.9	22.3	21.5

Hardware Setup

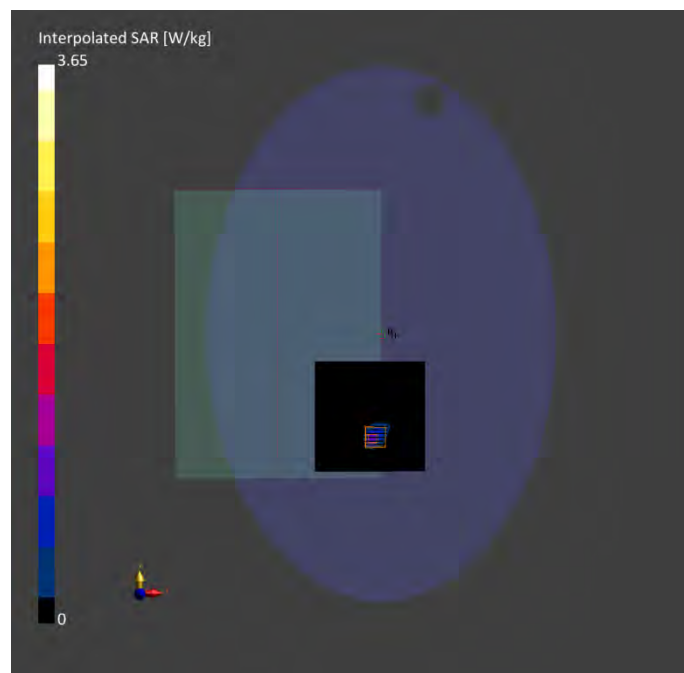
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-03	2023-12-03
psSAR1g [W/kg]	0.781	0.888
psSAR10g [W/kg]	0.263	0.279
Power Drift [dB]	0.04	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		4.7



Meas.12 Body Plane with Back Side 0mm on 114 Channel in IEEE802.11ac160 mode with Antenna Main Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN, 5GHz	WLAN, 10554-AAD	5570.0, 114	4.58	5.0	35.9	22.3	21.5

Hardware Setup

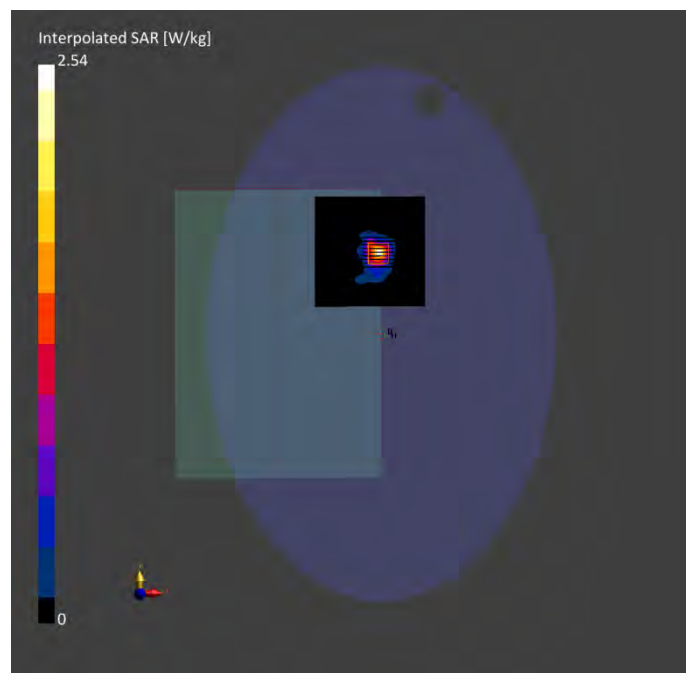
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-03	2023-12-03
psSAR1g [W/kg]	0.548	0.619
psSAR10g [W/kg]	0.183	0.187
Power Drift [dB]	0.07	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		6.4



Meas.13 Limbs Plane with Palm rest Side 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10544- AAC	5530.0, 106	4.58	4.95	36.0	22.3	21.5

Hardware Setup

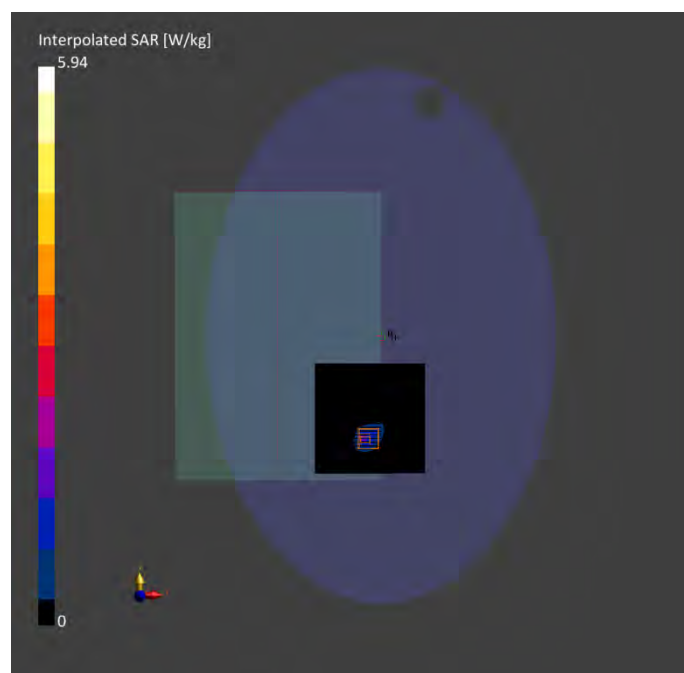
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-03	2023-12-03
psSAR1g [W/kg]	1.20	1.56
psSAR10g [W/kg]	0.429	0.533
Power Drift [dB]	-0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		5.7



Meas.14 Limbs Plane with Palm rest Side 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10544- AAC	5530.0, 106	4.58	4.95	36.0	22.3	21.5

Hardware Setup

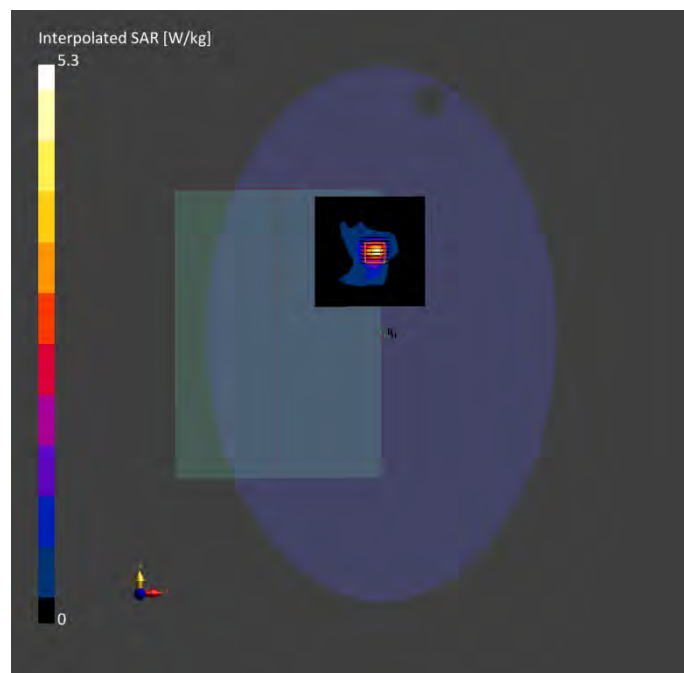
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 , 2023-12-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-03	2023-12-03
psSAR1g [W/kg]	1.21	1.32
psSAR10g [W/kg]	0.392	0.452
Power Drift [dB]	-0.06	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		6.4



Meas.15 Body Plane with Bottom Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10544- AAC	5775.0, 155	4.78	5.22	35.2	22.5	21.8

Hardware Setup

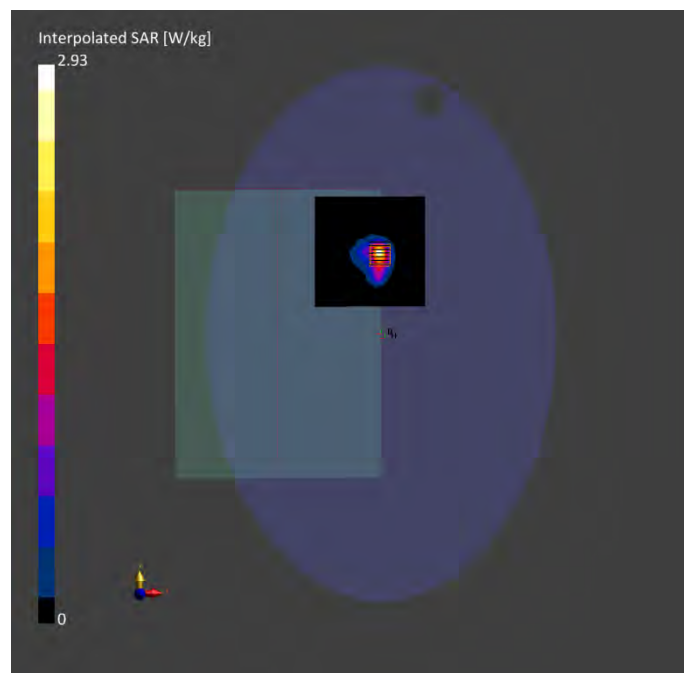
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	0.674	0.744
psSAR10g [W/kg]	0.213	0.225
Power Drift [dB]	-0.06	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		7.4



Meas.16 Body Plane with Back Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Main Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN, 5GHz	WLAN, 10544-AAC	5775.0, 155	4.78	5.22	35.2	22.5	21.8

Hardware Setup

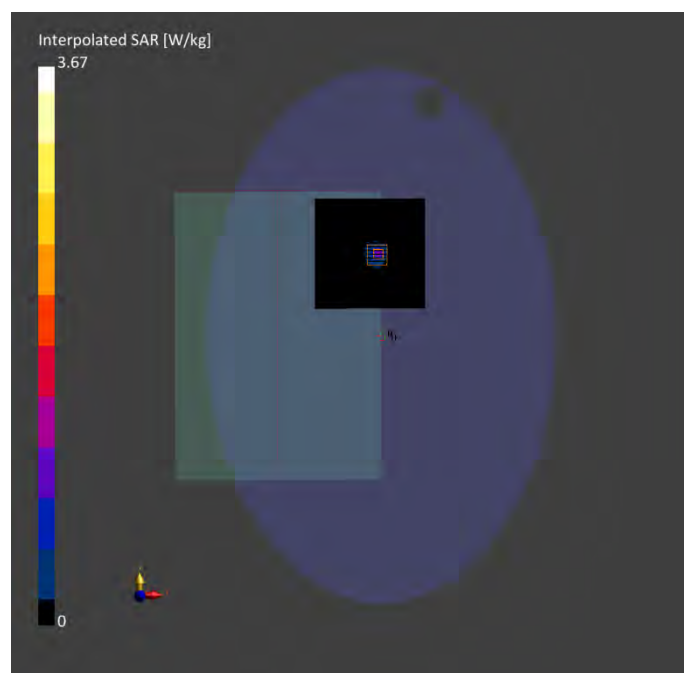
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	0.780	0.838
psSAR10g [W/kg]	0.230	0.239
Power Drift [dB]	-0.10	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.7
Dist 3dB Peak [mm]		6.4



Meas.17 Limbs Plane with Palm rest Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10402- AAE	5775.0, 155	4.78	5.22	35.2	22.5	21.8

Hardware Setup

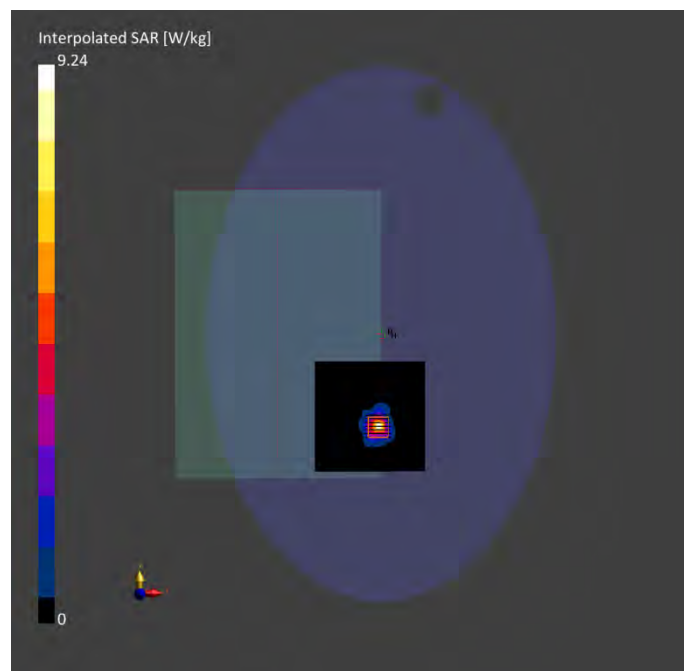
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	1.91	2.07
psSAR10g [W/kg]	0.584	0.613
Power Drift [dB]	0.13	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.9
Dist 3dB Peak [mm]		5.8



Meas.18 Limbs Plane with Palm rest Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLA N	WLAN, 10544- AAC	5775.0, 155	4.78	5.22	35.2	22.5	21.8

Hardware Setup

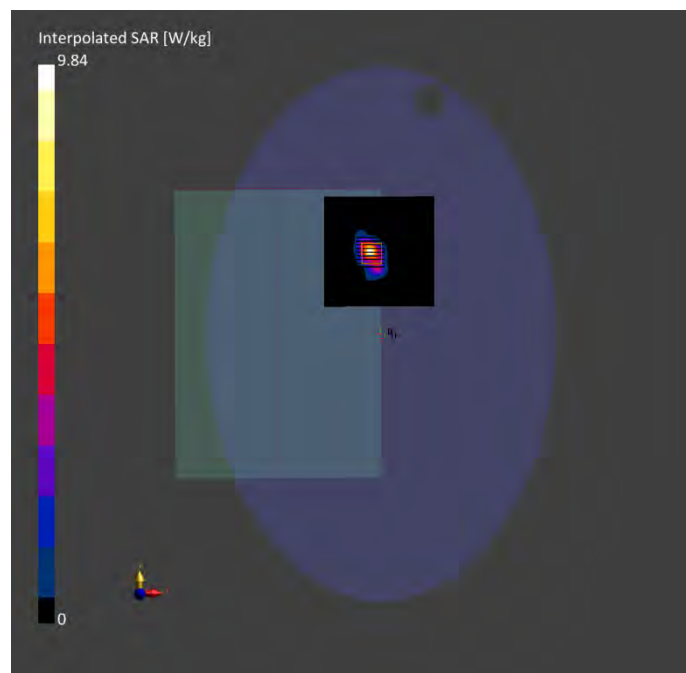
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 , 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g	2.02	2.26
[W/kg]		
psSAR10g	0.630	0.672
[W/kg]		
Power Drift [dB]	-0.02	0.09
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.7
Dist 3dB Peak [mm]		5.8



Meas.19 Body Plane with Back Side 0mm on 163 Channel in IEEE802.11ac160 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	CUSTOM	CW, 10554-Band AAD	5815.0, 5815000	4.78	5.29	35.0	22.5	21.8

Hardware Setup

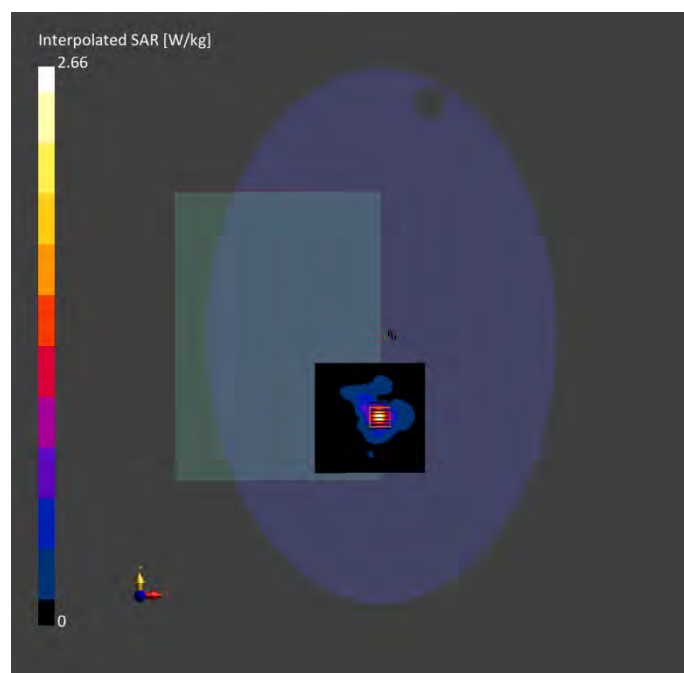
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	0.599	0.719
psSAR10g [W/kg]	0.183	0.281
Power Drift [dB]	0.15	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		6.8



Meas.20 Body Plane with Back Side 0mm on 163 Channel in IEEE802.11ac160 mode with Antenna Main Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Device,	315.0 x 225.0 x 10.0	Tablet

Exposure Conditions

Phantom	Position	Band	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Section, TSL	Distance [mm]		UID	Channel Number					
Flat, HSL	BACK, 0.00	CUSTOM	CW, 10456-Band AAC	5815.0, 5815000	4.78	5.29	35.0	22.5	21.8

Hardware Setup

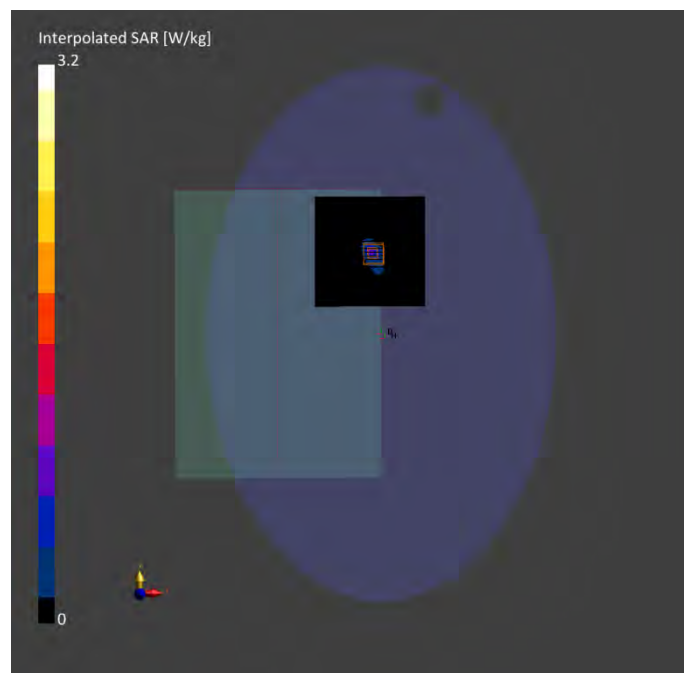
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 , 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	0.633	0.732
psSAR10g [W/kg]	0.204	0.215
Power Drift [dB]	-0.09	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		5.8



Meas.21 Limbs Plane with Back Side 0mm on 163 Channel in IEEE802.11ac160 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	Custo m	CW, 10456-Band AAC	5815.0, 5815000	4.78	5.29	35.0	22.5	21.8

Hardware Setup

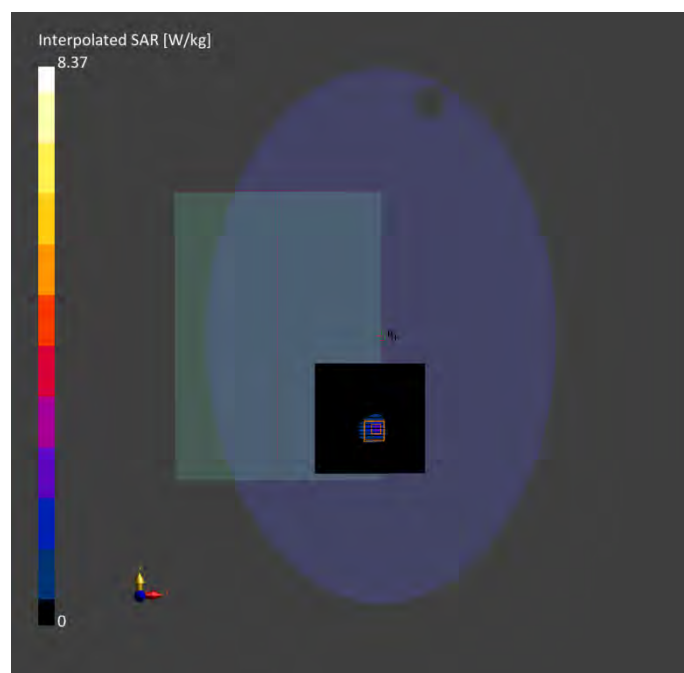
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 , 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g	1.69	1.94
[W/kg]		
psSAR10g	0.573	0.667
[W/kg]		
Power Drift [dB]	0.03	0.12
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.5
Dist 3dB Peak [mm]		6.2



Meas.22 Limbs Plane with Back Side 0mm on 163 Channel in IEEE802.11ac160 mode with Antenna Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	Custo m	CW, 10456-Band AAC	5815.0, 5815000	4.78	5.29	35.0	22.5	21.8

Hardware Setup

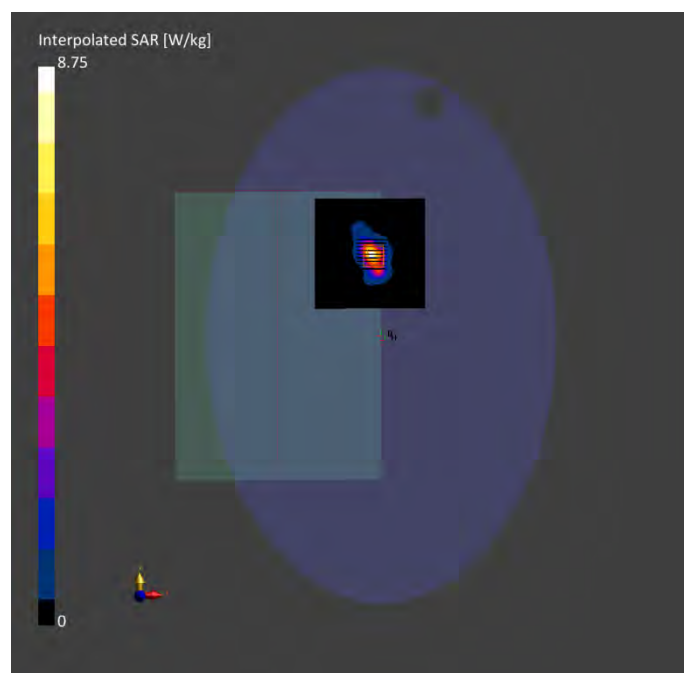
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-04	2023-12-04
psSAR1g [W/kg]	1.73	2.08
psSAR10g [W/kg]	0.573	0.674
Power Drift [dB]	0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		5.8



Meas.23 Body Plane with Back Side 0mm on 175 Channel in IEEE802.11ax160 mode with Antenna Auxiliary

Device under Test Properties DAE4 Sn878

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature
Flat, HSL	BACK, 0.00	U-NII-7	WLAN, 10743-AAC	6825.0, 175	5.38	6.62	33.1	22.5	21.5

Hardware Setup

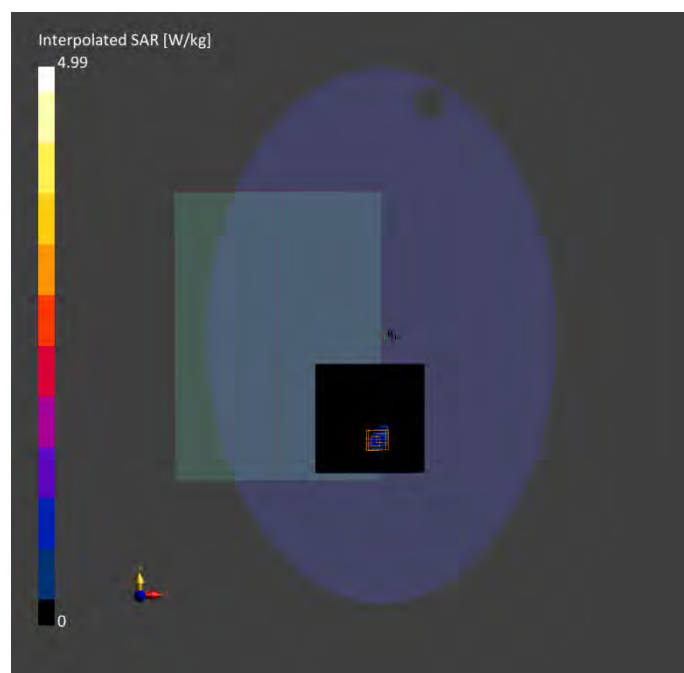
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-05	EX3DV4 - SN7607, 2023-07-04	, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	119.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-05	2023-12-05
psSAR1g [W/kg]	0.909	0.916
psSAR10g [W/kg]	0.307	0.310
APD 4cm ² [W/m ²]		7.03
Power Drift [dB]	0.03	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		4.8



Meas.24 Body Plane with Back Side 0mm on 175 Channel in IEEE802.11ax160 mode with Antenna Main Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature
Flat, HSL	BACK, 0.00	U-NII-7	WLAN, 10743-AAC	6825.0, 175	5.38	6.62	33.1	22.5	21.5

Hardware Setup

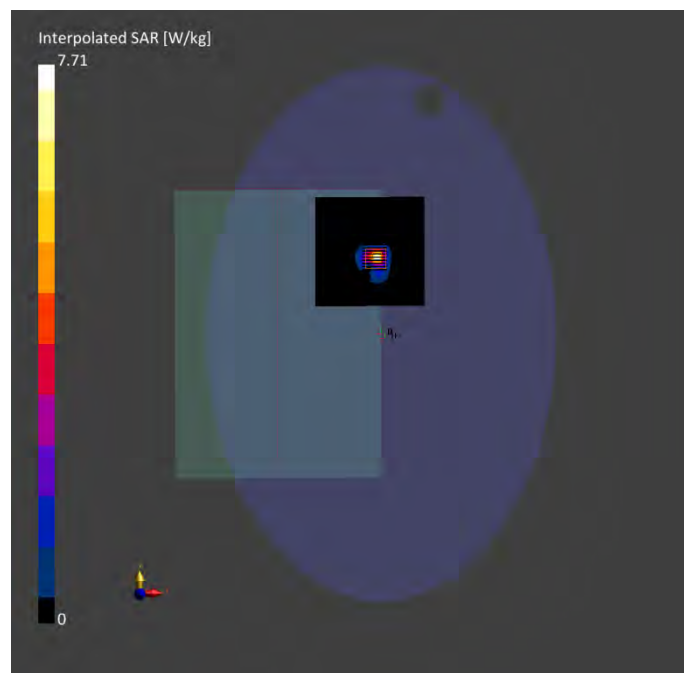
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	119.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-05	2023-12-05
psSAR1g [W/kg]	0.958	0.970
psSAR10g [W/kg]	0.252	0.269
APD 4cm ² [W/m ²]		8.13
Power Drift [dB]	-0.05	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.9
Dist 3dB Peak [mm]		5.8



Meas.25 Limbs Plane with Palm rest Side 0mm on 47 Channel in IEEE802.11ax160 mode with Antenna Auxiliary

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature
Flat, HSL	BACK, 0.00	U-NII-5	WLAN, 10743-AAC	6185.0, 47	5.38	5.64	35.5	22.5	21.5

Hardware Setup

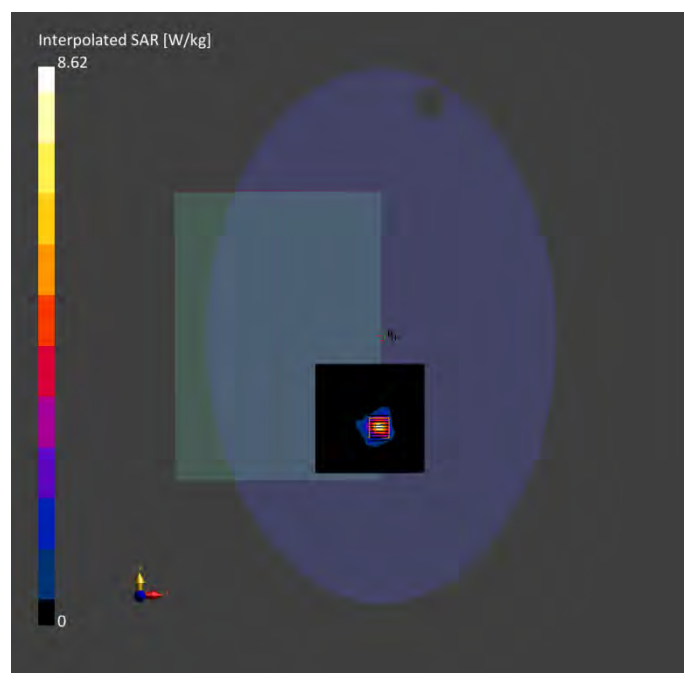
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	119.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-05	2023-12-05
psSAR1g [W/kg]	1.49	1.69
psSAR10g [W/kg]	0.443	0.467
APD 4cm ² [W/m ²]		10.8
Power Drift [dB]	0.07	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		6.1



Meas.26 Limbs Plane with Palm rest Side 0mm on 47 Channel in IEEE802.11ax160 mode with Antenna Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C590-14 AMD	315.0 x 225.0 x 10.0	Laptop

Exposure Conditions

Phantom	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature
Flat, HSL	BACK, 0.00	U-NII-5	WLAN, 10743-AAC	6185.0, 47	5.38	5.64	35.5	22.5	21.5

Hardware Setup

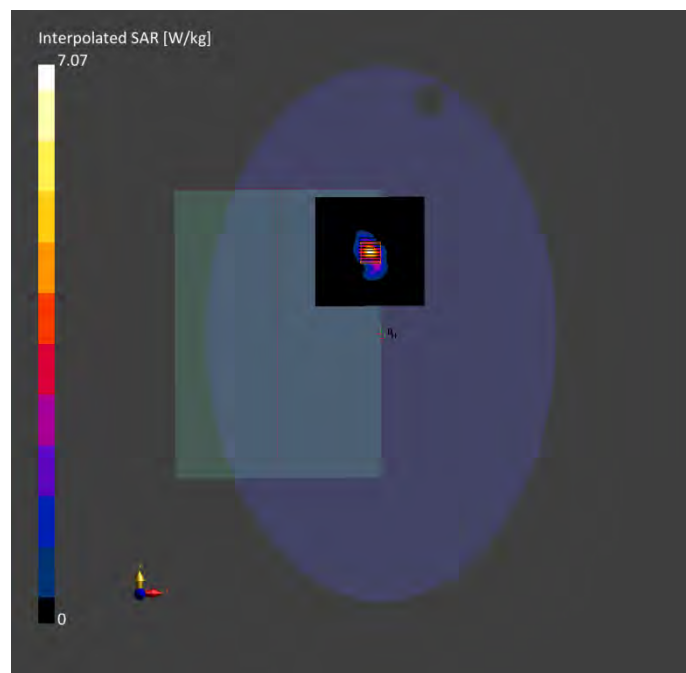
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000, 2023-12-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	119.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-12-05	2023-12-05
psSAR1g [W/kg]	1.25	1.36
psSAR10g [W/kg]	0.376	0.389
APD 4cm ² [W/m ²]		8.95
Power Drift [dB]	0.02	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		5.4



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ23B0223-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ23B0223-AS-2.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ23B0223-AC-2.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ23B0223-AT-7.pdf”.

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