

TEST REPORT

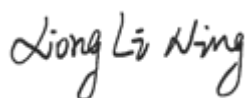
Applicant: Qualcomm Technologies, Inc.
Address: 5775 Morehouse Drive, San Diego, CA 92121-1714
Equipment Type: Qualcomm WiFi 7/BT Combo module
Model Name: QCNCM865
Brand Name: N/A
FCC ID: J9C-QCNCM865
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Body 2.4GHz(1 g): 0.90 W/kg
Body 5GHz(1 g): 1.11 W/kg
Maximum SAR: Body 6GHz(1 g): 0.65 W/kg
Limbs 2.4GHz(10 g): 0.59 W/kg
Limbs 5GHz(10 g): 0.35 W/kg
Limbs 6GHz(10 g): 0.31 W/kg
Sample Arrival Date: Dec. 12, 2024
Test Date: Dec. 17, 2024 - Jan. 08, 2025
Date of Issue: Feb. 05, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu

(Testing Director)



Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Feb. 05, 2025</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	Qualcomm Technologies, Inc.
Address	5775 Morehouse Drive, San Diego, CA 92121-1714

2.2 Manufacturer Information

Manufacturer	Qualcomm Technologies, Inc.
Address	5775 Morehouse Drive, San Diego, CA 92121-1714

2.3 General Description for Equipment under Test (EUT)

EUT Name	Qualcomm WiFi 7/BT Combo module
Model Name Under Test	QCNCM865
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 Name	Notebook Computer
Model Name	IdeaPad Slim 3 15Q8X10
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	DC330028N00	Luxshare-ict	PIFA	1.29	2.43	2.43	2.74	2.87	3.87	3.75	3.75	3.71
Auxiliary Antenna	DC330028N10		PIFA	2.33	2.91	2.93	2.80	2.28	3.71	4.16	4.17	3.44
Main Antenna	DC330028P00	ZTX	PIFA	1.91	2.82	3.02	3.52	3.41	3.22	3.12	3.47	3.03
Auxiliary Antenna	DC330028P10		PIFA	2.31	3.01	3.01	3.18	3.28	3.59	3.59	3.30	2.87

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, VHT, 802.11ac, 802.11ax and 802.11be
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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 ~ 2472 MHz
	VHT20/VHT40	2412 ~ 2472 MHz
	802.11ax(HE20/HE40)	2412 ~ 2472 MHz
	802.11be(EHT20/EHT40)	2412 ~ 2472 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ax(HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11be(EHT20/EHT40/EHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)/ 802.11be(EHT160)	5150 ~ 5250 MHz
		5470 ~ 5725 MHz
		5815 ~ 5885 MHz
	802.11a/ 802.11ax(HE20/HE40/HE80/ HE160) 802.11be(EHT20/EHT40/EHT80/ EHT160/EHT320)	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz

	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WLAN	PIFA
	Bluetooth	PIFA
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 D04 v01r02	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 WIFI	Aux.	0.90	1.11	
	2.4G WIFI	Main	0.59		
U-NII-2A	5.3G WIFI	Aux.	0.98		
	5.3G WIFI	Main	0.48		
U-NII-2C	5.6G WIFI	Aux.	1.11		
	5.6G WIFI	Main	0.51		
U-NII-3	5.8G WIFI	Aux.	0.96		
	5.8G WIFI	Main	0.53		
U-NII-4	5.9G WIFI	Aux.	0.87		
	5.9G WIFI	Main	0.55		
U-NII-5/6/7/8	6G WIFI	Aux.	0.65		
	6G WIFI	Main	0.32		
DSS	Bluetooth	Aux.	0.15		
Limit (W/kg)			1.60		
Verdict			Pass		

3.3.2 Highest Simultaneous Transmission SAR Values (1 g Value)

Equipment Class	Maximum Report SAR (W/kg)	SPLSR
	Body (0mm)	
DTS	2.29	0.04
NII	2.35	0.04
DSS	2.35	0.04
Limit (W/kg)	1.60	0.04
Verdict	Pass	Pass

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

3.3.3 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 WIFI	Aux.	0.56	0.59	
	2.4G WIFI	Main	0.59		
U-NII-2A	5.3G WIFI	Aux.	0.23		
	5.3G WIFI	Main	0.35		
U-NII-2C	5.6G WIFI	Aux.	0.27		
	5.6G WIFI	Main	0.35		
U-NII-3	5.8G WIFI	Aux.	0.23		
	5.8G WIFI	Main	0.29		
U-NII-4	5.9G WIFI	Aux.	0.22		
	5.9G WIFI	Main	0.32		
U-NII-5/6/7/8	6G WIFI	Aux.	0.25		
	6G WIFI	Main	0.31		
DSS	Bluetooth	Aux.	0.11		
Limit (W/kg)			4.00		
Verdict			Pass		

3.3.4 Highest Simultaneous Transmission SAR Values (10 g Value)

Equipment Class	Maximum Report SAR (W/kg)	SPLSR
	Limbs (0mm)	
DTS	1.53	/
NII	1.53	/
DSS	1.27	/
Limit (W/kg)	4.00	0.04
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 1.11 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 0.59 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

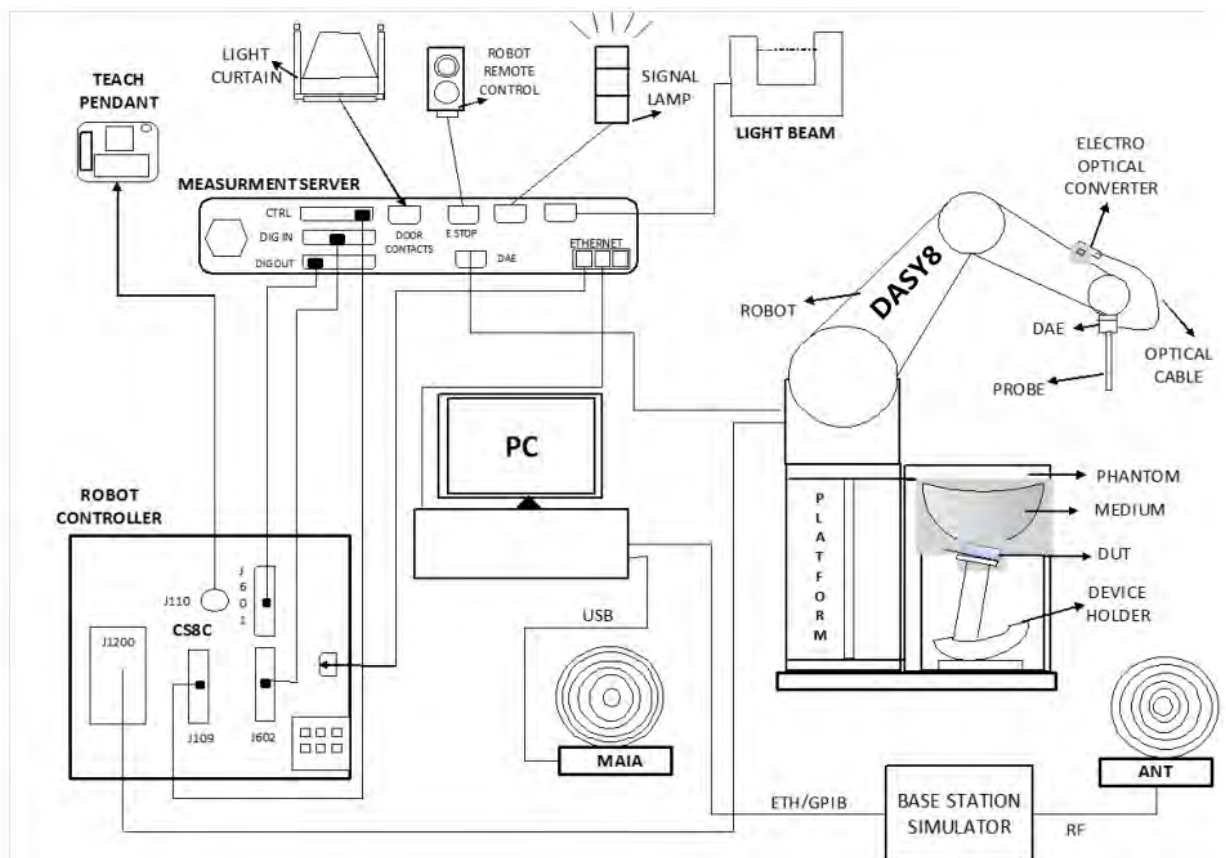
$$SAR = \frac{\sigma E^2}{\rho}$$

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: 7893 & EX3DV4 SN: 7510 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

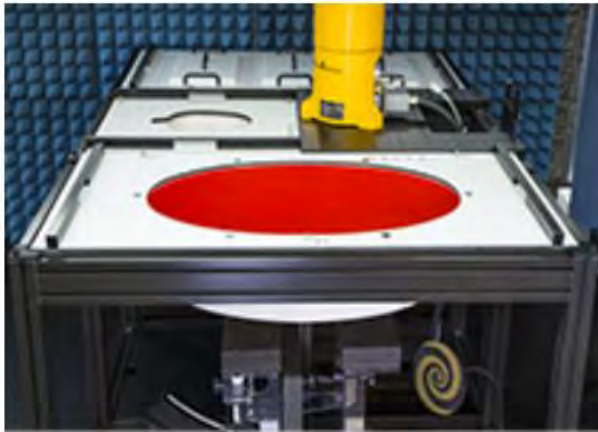
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through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



- Input Impedance: 200M Ω
- 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**Photo of Phantom SN2162**

Serial Number	Shell Thickness (mm)	Major ellipse axis (mm)	Minor axis(mm)
SN 2159 ELI V8.0	2.0 $\pm$ 0.2	600	400
SN 2162 ELI V8.0	2.0 $\pm$ 0.2	600	400

4.2.6 Device Holder

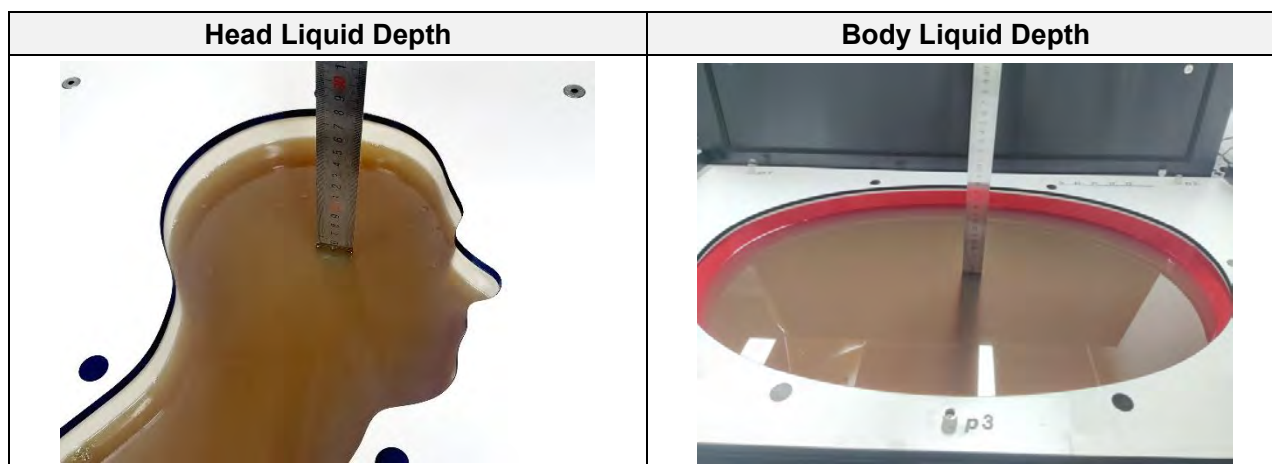
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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

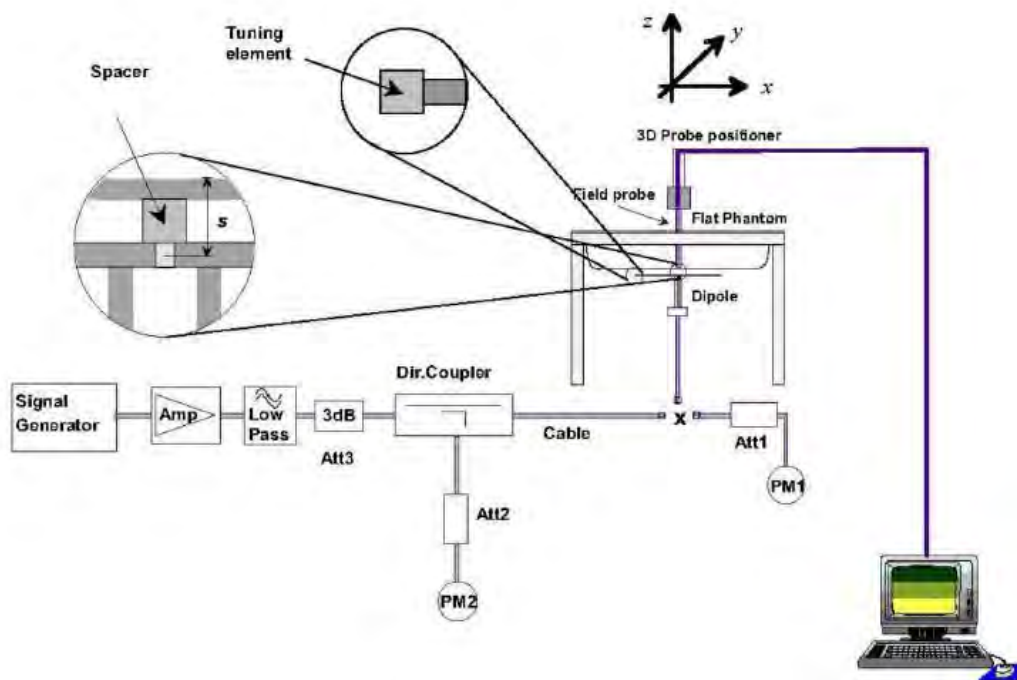
5 SYSTEM VERIFICATION

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

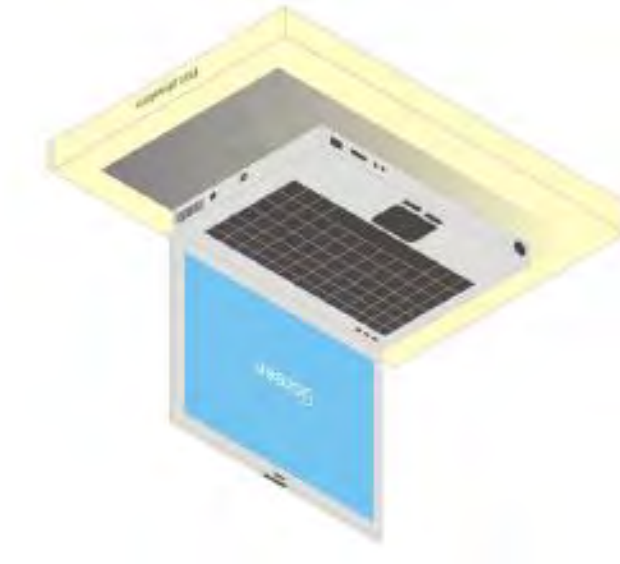
In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. 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.



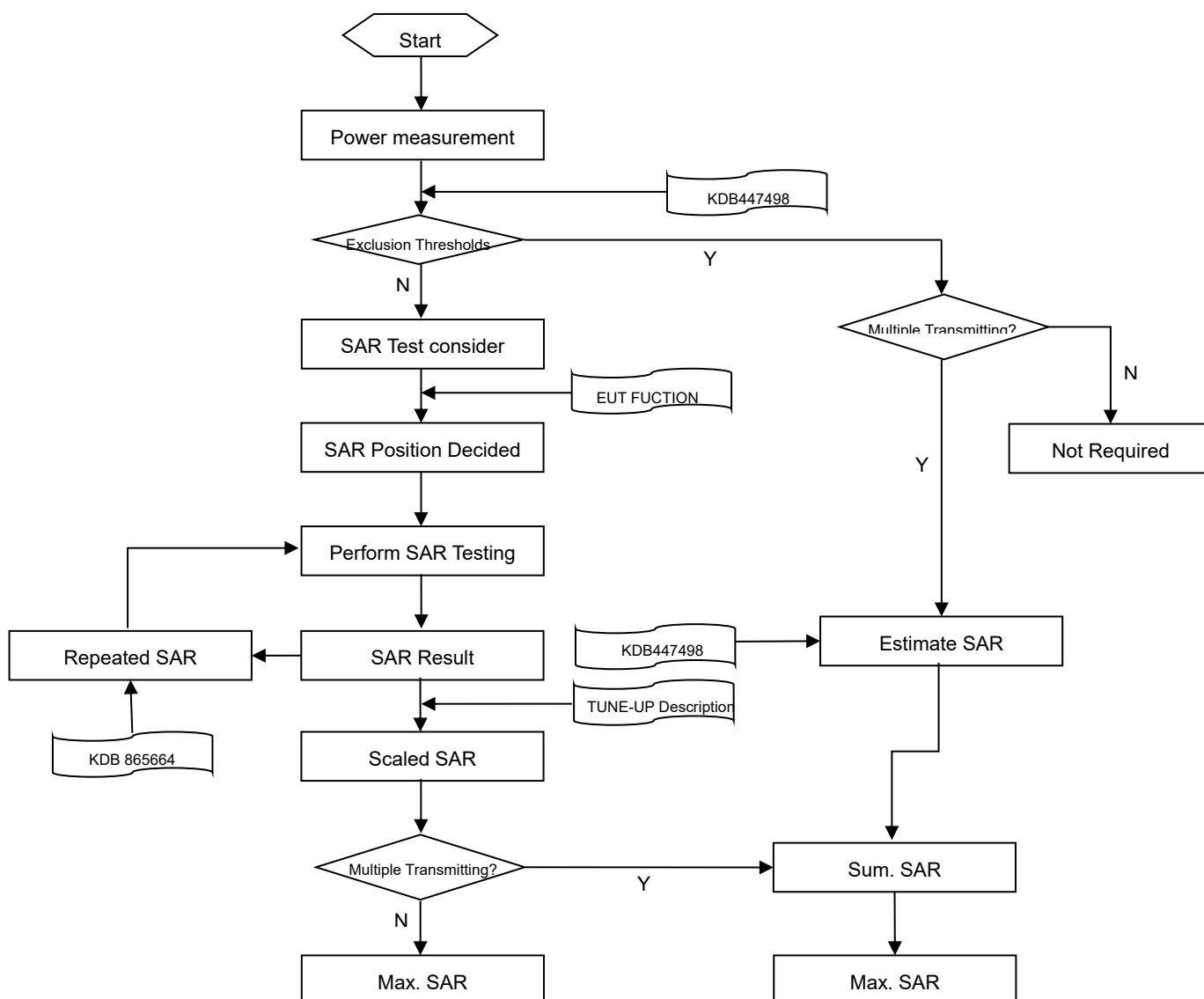
6.2 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

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	½·δ·ln(2)±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

- a. 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
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. 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.
- d. 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 WIFI 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:

- a. 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.
- b. 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 (Aux. Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	14.78	15.50	Yes
		6	2437	14.95	15.50	Yes
		11	2462	14.76	15.50	Yes
		12	2467	14.52	15.50	No
		13	2472	11.02	13.00	No
	802.11g	1	2412	14.69	15.50	No
		2	2417	14.94	15.50	No
		6	2437	14.66	15.50	No
		10	2457	14.87	15.50	No
		11	2462	12.84	13.50	No
		12	2467	10.96	11.50	No
		13	2472	-5.76	-5.50	No
	VHT20	1	2412	14.55	15.50	No
		2	2417	15.01	15.50	No
		6	2437	14.93	15.50	No
		10	2457	15.25	15.50	No
		11	2462	12.79	13.00	No
		12	2467	11.72	12.50	No
		13	2472	-5.88	-5.50	No
	VHT40	3	2422	12.44	13.00	No
		4	2427	13.35	14.00	No
		6	2437	14.64	15.00	No
		8	2447	13.26	15.00	No
		9	2452	12.46	13.00	No
		10	2457	11.17	11.50	No
		11	2462	-5.98	-5.50	No
	802.11ax(HE20) (SU)	1	2412	15.33	15.50	No
		2	2417	14.97	15.50	No
		6	2437	14.79	15.50	No
		10	2457	14.95	15.50	No
		11	2462	12.32	13.00	No
		12	2467	12.33	12.50	No
		13	2472	-6.05	-5.50	No
	802.11ax(HE40) (SU)	3	2422	12.17	13.00	No
		4	2427	13.79	14.00	No

		6	2437	14.21	15.00	No
		8	2447	13.65	15.00	No
		9	2452	12.55	13.00	No
		10	2457	10.92	11.50	No
		11	2462	-6.02	-5.50	No
	802.11be(EHT20) (SU)	1	2412	14.96	15.50	No
		2	2417	14.83	15.50	No
		6	2437	15.12	15.50	No
		10	2457	14.69	15.50	No
		11	2462	12.24	13.00	No
		12	2467	11.60	12.50	No
		13	2472	-5.96	-5.50	No
	802.11be(EHT40) (SU)	3	2422	12.20	13.00	No
		4	2427	13.62	14.00	No
		6	2437	14.85	15.00	No
		8	2447	13.74	15.00	No
		9	2452	12.43	13.00	No
		10	2457	11.31	11.50	No
		11	2462	-5.93	-5.50	No
	802.11be(EHT20) (RU26)/0	1	2412	11.00	11.50	No
	802.11be(EHT20) (RU26)/0	2	2417	12.98	13.50	No
	802.11be(EHT20) (RU26)/4	6	2437	13.29	13.50	No
	802.11be(EHT20) (RU26)/4	10	2457	13.04	13.50	No
	802.11be(EHT20) (RU26)/8	11	2462	7.56	8.50	No
	802.11be(EHT20) (RU26)/8	12	2467	3.64	4.50	No
	802.11be(EHT20) (RU26)/8	13	2472	-10.04	-9.50	No
	802.11be(EHT20) (RU52)/37	1	2412	11.13	11.50	No
	802.11be(EHT20) (RU52)/37	2	2417	13.16	13.50	No
	802.11be(EHT20) (RU52)/39	6	2437	13.35	13.50	No
	802.11be(EHT20) (RU52)/39	10	2457	13.14	13.50	No
	802.11be(EHT20) (RU52)/40	11	2462	8.03	8.50	No

	802.11be(EHT20) (RU52)/40	12	2467	3.92	4.50	No
	802.11be(EHT20) (RU52)/40	13	2472	-10.28	-9.50	No
	802.11be(EHT20) (RU106)/53	1	2412	11.27	11.50	No
	802.11be(EHT20) (RU106)/53	2	2417	13.32	13.50	No
	802.11be(EHT20) (RU106)/53	6	2437	12.72	13.50	No
	802.11be(EHT20) (RU106)/53	10	2457	13.00	13.50	No
	802.11be(EHT20) (RU106)/54	11	2462	8.23	8.50	No
	802.11be(EHT20) (RU106)/54	12	2467	3.72	4.50	No
	802.11be(EHT20) (RU106)/54	13	2472	-10.33	-9.50	No
	802.11be(EHT20) (RU242)/55	6	2437	8.07	8.50	No
	802.11be(EHT40) (RU484)/55	6	2437	5.30	5.50	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)) = 0.897 * (35.48mW/35.48mW) = 0.897 W/Kg, so the 2.4G OFDM SAR test is not required.						

8.1.2 2.4G WIFI (Main Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	15.33	15.50	Yes
		6	2437	15.18	15.50	Yes
		11	2462	15.01	15.50	Yes
		12	2467	14.60	15.50	No
		13	2472	12.01	13.00	No
	802.11g	1	2412	15.24	15.50	No
		2	2417	14.65	15.50	No
		6	2437	14.66	15.50	No
		10	2457	15.31	15.50	No
		11	2462	13.21	13.50	No
		12	2467	11.25	11.50	No
		13	2472	-5.70	-5.50	No
	VHT20	1	2412	15.17	15.50	No
		2	2417	14.91	15.50	No
		6	2437	14.88	15.50	No
		10	2457	15.18	15.50	No
		11	2462	12.64	13.00	No
		12	2467	12.24	12.50	No
		13	2472	-5.66	-5.50	No
	VHT40	3	2422	12.08	13.00	No
		4	2427	13.06	14.00	No
		6	2437	14.39	15.00	No
		8	2447	14.83	15.00	No
		9	2452	12.44	13.00	No
		10	2457	10.72	11.50	No
		11	2462	-6.40	-5.50	No
	802.11ax(HE20) (SU)	1	2412	14.88	15.50	No
		2	2417	15.02	15.50	No
		6	2437	15.15	15.50	No
		10	2457	15.18	15.50	No
		11	2462	12.61	13.00	No
		12	2467	12.01	12.50	No
		13	2472	-6.31	-5.50	No
	802.11ax(HE40) (SU)	3	2422	12.35	13.00	No
		4	2427	13.80	14.00	No
		6	2437	15.00	15.00	No
		8	2447	14.69	15.00	No
		9	2452	12.17	13.00	No
		10	2457	10.74	11.50	No

		11	2462	-6.41	-5.50	No
	802.11be(EHT20) (SU)	1	2412	15.07	15.50	No
		2	2417	15.11	15.50	No
		6	2437	14.92	15.50	No
		10	2457	15.23	15.50	No
		11	2462	12.57	13.00	No
		12	2467	11.72	12.50	No
		13	2472	-5.86	-5.50	No
	802.11be(EHT40) (SU)	3	2422	12.14	13.00	No
		4	2427	13.18	14.00	No
		6	2437	14.28	15.00	No
		8	2447	14.45	15.00	No
		9	2452	12.50	13.00	No
		10	2457	10.81	11.50	No
		11	2462	-6.22	-5.50	No
	802.11be(EHT20) (RU26)/0	1	2412	11.32	11.50	No
	802.11be(EHT20) (RU26)/0	2	2417	13.07	13.50	No
	802.11be(EHT20) (RU26)/4	6	2437	13.23	13.50	No
	802.11be(EHT20) (RU26)/4	10	2457	13.05	13.50	No
	802.11be(EHT20) (RU26)/8	11	2462	7.69	8.50	No
	802.11be(EHT20) (RU26)/8	12	2467	4.26	4.50	No
	802.11be(EHT20) (RU26)/8	13	2472	-9.72	-9.50	No
	802.11be(EHT20) (RU52)/37	1	2412	10.70	11.50	No
	802.11be(EHT20) (RU52)/37	2	2417	13.30	13.50	No
	802.11be(EHT20) (RU52)/39	6	2437	12.72	13.50	No
	802.11be(EHT20) (RU52)/39	10	2457	13.15	13.50	No
	802.11be(EHT20) (RU52)/40	11	2462	7.83	8.50	No
	802.11be(EHT20) (RU52)/40	12	2467	4.20	4.50	No
	802.11be(EHT20) (RU52)/40	13	2472	-9.86	-9.50	No

	802.11be(EHT20) (RU106)/53	1	2412	10.88	11.50	No
	802.11be(EHT20) (RU106)/53	2	2417	12.98	13.50	No
	802.11be(EHT20) (RU106)/53	6	2437	12.69	13.50	No
	802.11be(EHT20) (RU106)/53	10	2457	13.30	13.50	No
	802.11be(EHT20) (RU106)/54	11	2462	7.70	8.50	No
	802.11be(EHT20) (RU106)/54	12	2467	4.01	4.50	No
	802.11be(EHT20) (RU106)/54	13	2472	-10.09	-9.50	No
	802.11be(EHT20) (RU242)/55	6	2437	7.82	8.50	No
	802.11be(EHT40) (RU484)/55	6	2437	4.70	5.50	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)) = 0.587 * (35.48mW/35.48mW) = 0.587 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.3 2.4G WIFI (MIMO) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	14.59	15.50	No
		6	2437	14.61	15.50	No
		11	2462	14.75	15.50	No
		12	2467	15.14	15.50	No
		13	2472	11.33	13.00	No
	802.11g	1	2412	15.11	15.50	No
		2	2417	15.02	15.50	No
		6	2437	15.04	15.50	No
		10	2457	15.12	15.50	No
		11	2462	12.76	13.50	No
		12	2467	10.96	11.50	No
		13	2472	-6.38	-5.50	No
	VHT20	1	2412	14.88	15.50	No
		2	2417	15.31	15.50	No
		6	2437	14.87	15.50	No
		10	2457	14.75	15.50	No
		11	2462	12.25	13.00	No
		12	2467	12.08	12.50	No
		13	2472	-5.90	-5.50	No
	VHT40	3	2422	12.33	13.00	No
		4	2427	13.09	14.00	No
		6	2437	14.42	15.00	No
		8	2447	14.08	15.00	No
		9	2452	12.55	13.00	No
		10	2457	10.84	11.50	No
		11	2462	-6.24	-5.50	No
	802.11ax(HE20) (SU)	1	2412	14.89	15.50	No
		2	2417	14.63	15.50	No
		6	2437	15.15	15.50	No
		10	2457	14.80	15.50	No
		11	2462	12.12	13.00	No
		12	2467	12.27	12.50	No
		13	2472	-6.16	-5.50	No
	802.11ax(HE40) (SU)	3	2422	12.48	13.00	No
		4	2427	13.44	14.00	No
		6	2437	14.31	15.00	No
		8	2447	14.78	15.00	No
		9	2452	12.82	13.00	No
		10	2457	10.87	11.50	No

		11	2462	-5.80	-5.50	No
	802.11be(EHT20) (SU)	1	2412	14.73	15.50	No
		2	2417	15.35	15.50	No
		6	2437	14.74	15.50	No
		10	2457	14.99	15.50	No
		11	2462	12.75	13.00	No
		12	2467	11.71	12.50	No
		13	2472	-5.80	-5.50	No
	802.11be(EHT40) (SU)	3	2422	12.35	13.00	No
		4	2427	13.36	14.00	No
		6	2437	14.37	15.00	No
		8	2447	14.13	15.00	No
		9	2452	12.67	13.00	No
		10	2457	11.02	11.50	No
		11	2462	-6.13	-5.50	No
	802.11be(EHT20) (RU26)/0	1	2412	11.32	11.50	No
	802.11be(EHT20) (RU26)/0	2	2417	12.62	13.50	No
	802.11be(EHT20) (RU26)/4	6	2437	12.96	13.50	No
	802.11be(EHT20) (RU26)/4	10	2457	13.26	13.50	No
	802.11be(EHT20) (RU26)/8	11	2462	8.30	8.50	No
	802.11be(EHT20) (RU26)/8	12	2467	3.63	4.50	No
	802.11be(EHT20) (RU26)/8	13	2472	-9.91	-9.50	No
	802.11be(EHT20) (RU52)/37	1	2412	10.98	11.50	No
	802.11be(EHT20) (RU52)/37	2	2417	13.12	13.50	No
	802.11be(EHT20) (RU52)/39	6	2437	12.70	13.50	No
	802.11be(EHT20) (RU52)/39	10	2457	12.66	13.50	No
	802.11be(EHT20) (RU52)/40	11	2462	7.63	8.50	No
	802.11be(EHT20) (RU52)/40	12	2467	4.07	4.50	No
	802.11be(EHT20) (RU52)/40	13	2472	-10.42	-9.50	No

	802.11be(EHT20) (RU106)/53	1	2412	10.94	11.50	No
	802.11be(EHT20) (RU106)/53	2	2417	13.35	13.50	No
	802.11be(EHT20) (RU106)/53	6	2437	13.27	13.50	No
	802.11be(EHT20) (RU106)/53	10	2457	13.03	13.50	No
	802.11be(EHT20) (RU106)/54	11	2462	7.68	8.50	No
	802.11be(EHT20) (RU106)/54	12	2467	3.73	4.50	No
	802.11be(EHT20) (RU106)/54	13	2472	-9.90	-9.50	No
	802.11be(EHT20) (RU242)/55	6	2437	7.90	8.50	No
	802.11be(EHT40) (RU484)/55	6	2437	5.18	5.50	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, or the SPLSR value ≤0.04 the MIMO SAR test is not required.

8.1.4 2.4G WIFI (Aux. Antenna) (DBS) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	14.11	14.50	Yes
		6	2437	14.23	14.50	Yes
		11	2462	14.18	14.50	Yes
		12	2467	14.11	14.50	No
		13	2472	11.11	12.00	No
	802.11g	1	2412	14.02	14.50	No
		2	2417	13.71	14.50	No
		6	2437	14.05	14.50	No
		10	2457	13.76	14.50	No
		11	2462	12.84	13.50	No
		12	2467	10.96	11.50	No
		13	2472	-5.76	-5.50	No
	VHT20	1	2412	13.77	14.50	No
		2	2417	14.05	14.50	No
		6	2437	13.66	14.50	No
		10	2457	14.35	14.50	No
		11	2462	12.79	13.00	No
		12	2467	11.72	12.50	No
		13	2472	-5.88	-5.50	No
	VHT40	3	2422	12.44	13.00	No
		4	2427	13.35	14.00	No
		6	2437	14.10	14.50	No
		8	2447	13.62	14.50	No
		9	2452	12.46	13.00	No
		10	2457	11.17	11.50	No
		11	2462	-5.98	-5.50	No
	802.11ax(HE20) (SU)	1	2412	14.17	14.50	No
		2	2417	13.96	14.50	No
		6	2437	13.83	14.50	No
		10	2457	14.25	14.50	No
		11	2462	12.32	13.00	No
		12	2467	12.33	12.50	No
		13	2472	-6.05	-5.50	No
	802.11ax(HE40) (SU)	3	2422	12.17	13.00	No
		4	2427	13.79	14.00	No
		6	2437	14.21	14.50	No
		8	2447	13.65	14.50	No
		9	2452	12.55	13.00	No
		10	2457	10.92	11.50	No

		11	2462	-6.02	-5.50	No
	802.11be(EHT20) (SU)	1	2412	13.62	14.50	No
		2	2417	13.99	14.50	No
		6	2437	14.20	14.50	No
		10	2457	13.65	14.50	No
		11	2462	12.24	13.00	No
		12	2467	11.60	12.50	No
		13	2472	-5.96	-5.50	No
	802.11be(EHT40) (SU)	3	2422	12.20	13.00	No
		4	2427	13.62	14.00	No
		6	2437	13.73	14.50	No
		8	2447	13.55	14.50	No
		9	2452	12.43	13.00	No
		10	2457	11.31	11.50	No
		11	2462	-5.93	-5.50	No
	802.11be(EHT20) (RU26)/0	1	2412	11.00	11.50	No
	802.11be(EHT20) (RU26)/0	2	2417	12.98	13.50	No
	802.11be(EHT20) (RU26)/4	6	2437	13.29	13.50	No
	802.11be(EHT20) (RU26)/4	10	2457	13.04	13.50	No
	802.11be(EHT20) (RU26)/8	11	2462	7.56	8.50	No
	802.11be(EHT20) (RU26)/8	12	2467	3.64	4.50	No
	802.11be(EHT20) (RU26)/8	13	2472	-10.04	-9.50	No
	802.11be(EHT20) (RU52)/37	1	2412	11.13	11.50	No
	802.11be(EHT20) (RU52)/37	2	2417	13.16	13.50	No
	802.11be(EHT20) (RU52)/39	6	2437	13.35	13.50	No
	802.11be(EHT20) (RU52)/39	10	2457	13.14	13.50	No
	802.11be(EHT20) (RU52)/40	11	2462	8.03	8.50	No
	802.11be(EHT20) (RU52)/40	12	2467	3.92	4.50	No
	802.11be(EHT20) (RU52)/40	13	2472	-10.28	-9.50	No

	802.11be(EHT20) (RU106)/53	1	2412	11.27	11.50	No
	802.11be(EHT20) (RU106)/53	2	2417	13.32	13.50	No
	802.11be(EHT20) (RU106)/53	6	2437	12.72	13.50	No
	802.11be(EHT20) (RU106)/53	10	2457	13.00	13.50	No
	802.11be(EHT20) (RU106)/54	11	2462	8.23	8.50	No
	802.11be(EHT20) (RU106)/54	12	2467	3.72	4.50	No
	802.11be(EHT20) (RU106)/54	13	2472	-10.33	-9.50	No
	802.11be(EHT20) (RU242)/55	6	2437	8.07	8.50	No
	802.11be(EHT40) (RU484)/55	6	2437	5.30	5.50	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)) = 0.678 * (28.18mW/28.18mW) = 0.678 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.5 2.4G WIFI (Main Antenna) (DBS) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	14.28	14.50	Yes
		6	2437	13.66	14.50	Yes
		11	2462	13.62	14.50	Yes
		12	2467	13.82	14.50	No
		13	2472	12.06	13.00	No
	802.11g	1	2412	13.81	14.50	No
		2	2417	13.95	14.50	No
		6	2437	13.89	14.50	No
		10	2457	14.02	14.50	No
		11	2462	13.21	13.50	No
		12	2467	11.25	11.50	No
		13	2472	-5.70	-5.50	No
	VHT20	1	2412	13.79	14.50	No
		2	2417	13.62	14.50	No
		6	2437	13.81	14.50	No
		10	2457	13.58	14.50	No
		11	2462	12.64	13.00	No
		12	2467	12.24	12.50	No
		13	2472	-5.66	-5.50	No
	VHT40	3	2422	12.08	13.00	No
		4	2427	13.06	14.00	No
		6	2437	14.01	14.50	No
		8	2447	14.00	14.50	No
		9	2452	12.44	13.00	No
		10	2457	10.72	11.50	No
		11	2462	-6.40	-5.50	No
	802.11ax(HE20) (SU)	1	2412	13.76	14.50	No
		2	2417	13.98	14.50	No
		6	2437	14.01	14.50	No
		10	2457	13.78	14.50	No
		11	2462	12.61	13.00	No
		12	2467	12.01	12.50	No
		13	2472	-6.31	-5.50	No
	802.11ax(HE40) (SU)	3	2422	12.35	13.00	No
		4	2427	13.80	14.00	No
		6	2437	13.96	14.50	No
		8	2447	14.24	14.50	No
		9	2452	12.17	13.00	No
		10	2457	10.74	11.50	No

		11	2462	-6.41	-5.50	No
	802.11be(EHT20) (SU)	1	2412	13.99	14.50	No
		2	2417	14.17	14.50	No
		6	2437	14.17	14.50	No
		10	2457	14.12	14.50	No
		11	2462	12.57	13.00	No
		12	2467	11.72	12.50	No
		13	2472	-5.86	-5.50	No
	802.11be(EHT40) (SU)	3	2422	12.14	13.00	No
		4	2427	13.18	14.00	No
		6	2437	13.84	14.50	No
		8	2447	13.59	14.50	No
		9	2452	12.50	13.00	No
		10	2457	10.81	11.50	No
		11	2462	-6.22	-5.50	No
	802.11be(EHT20) (RU26)/0	1	2412	11.32	11.50	No
	802.11be(EHT20) (RU26)/0	2	2417	13.07	13.50	No
	802.11be(EHT20) (RU26)/4	6	2437	13.23	13.50	No
	802.11be(EHT20) (RU26)/4	10	2457	13.05	13.50	No
	802.11be(EHT20) (RU26)/8	11	2462	7.69	8.50	No
	802.11be(EHT20) (RU26)/8	12	2467	4.26	4.50	No
	802.11be(EHT20) (RU26)/8	13	2472	-9.72	-9.50	No
	802.11be(EHT20) (RU52)/37	1	2412	10.70	11.50	No
	802.11be(EHT20) (RU52)/37	2	2417	13.30	13.50	No
	802.11be(EHT20) (RU52)/39	6	2437	12.72	13.50	No
	802.11be(EHT20) (RU52)/39	10	2457	13.15	13.50	No
	802.11be(EHT20) (RU52)/40	11	2462	7.83	8.50	No
	802.11be(EHT20) (RU52)/40	12	2467	4.20	4.50	No
	802.11be(EHT20) (RU52)/40	13	2472	-9.86	-9.50	No

	802.11be(EHT20) (RU106)/53	1	2412	10.88	11.50	No
	802.11be(EHT20) (RU106)/53	2	2417	12.98	13.50	No
	802.11be(EHT20) (RU106)/53	6	2437	12.69	13.50	No
	802.11be(EHT20) (RU106)/53	10	2457	13.30	13.50	No
	802.11be(EHT20) (RU106)/54	11	2462	7.70	8.50	No
	802.11be(EHT20) (RU106)/54	12	2467	4.01	4.50	No
	802.11be(EHT20) (RU106)/54	13	2472	-10.09	-9.50	No
	802.11be(EHT20) (RU242)/55	6	2437	7.82	8.50	No
	802.11be(EHT40) (RU484)/55	6	2437	4.70	5.50	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)) = 0.505 * (28.18mW/28.18mW) = 0.505 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.6 2.4G WIFI (MIMO) (DBS) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	14.12	14.50	No
		6	2437	14.27	14.50	No
		11	2462	14.15	14.50	No
		12	2467	13.99	14.50	No
		13	2472	11.66	12.00	No
	802.11g	1	2412	13.87	14.50	No
		2	2417	13.77	14.50	No
		6	2437	13.87	14.50	No
		10	2457	13.96	14.50	No
		11	2462	12.76	13.50	No
		12	2467	10.96	11.50	No
		13	2472	-6.38	-5.50	No
	VHT20	1	2412	14.03	14.50	No
		2	2417	13.65	14.50	No
		6	2437	13.66	14.50	No
		10	2457	13.59	14.50	No
		11	2462	12.25	13.00	No
		12	2467	12.08	12.50	No
		13	2472	-5.90	-5.50	No
	VHT40	3	2422	12.33	13.00	No
		4	2427	13.09	14.00	No
		6	2437	13.87	14.50	No
		8	2447	14.19	14.50	No
		9	2452	12.55	13.00	No
		10	2457	10.84	11.50	No
		11	2462	-6.24	-5.50	No
	802.11ax(HE20) (SU)	1	2412	14.09	14.50	No
		2	2417	13.84	14.50	No
		6	2437	13.98	14.50	No
		10	2457	13.68	14.50	No
		11	2462	12.12	13.00	No
		12	2467	12.27	12.50	No
		13	2472	-6.16	-5.50	No
	802.11ax(HE40) (SU)	3	2422	12.48	13.00	No
		4	2427	13.44	14.00	No
		6	2437	13.75	14.50	No
		8	2447	14.31	14.50	No
		9	2452	12.82	13.00	No
		10	2457	10.87	11.50	No

		11	2462	-5.80	-5.50	No
	802.11be(EHT20) (SU)	1	2412	13.63	14.50	No
		2	2417	14.17	14.50	No
		6	2437	13.69	14.50	No
		10	2457	13.64	14.50	No
		11	2462	12.75	13.00	No
		12	2467	11.71	12.50	No
		13	2472	-5.80	-5.50	No
	802.11be(EHT40) (SU)	3	2422	12.35	13.00	No
		4	2427	13.36	14.00	No
		6	2437	13.94	14.50	No
		8	2447	13.84	14.50	No
		9	2452	12.67	13.00	No
		10	2457	11.02	11.50	No
		11	2462	-6.13	-5.50	No
	802.11be(EHT20) (RU26)/0	1	2412	11.32	11.50	No
	802.11be(EHT20) (RU26)/0	2	2417	12.62	13.50	No
	802.11be(EHT20) (RU26)/4	6	2437	12.96	13.50	No
	802.11be(EHT20) (RU26)/4	10	2457	13.26	13.50	No
	802.11be(EHT20) (RU26)/8	11	2462	8.30	8.50	No
	802.11be(EHT20) (RU26)/8	12	2467	3.63	4.50	No
	802.11be(EHT20) (RU26)/8	13	2472	-9.91	-9.50	No
	802.11be(EHT20) (RU52)/37	1	2412	10.98	11.50	No
	802.11be(EHT20) (RU52)/37	2	2417	13.12	13.50	No
	802.11be(EHT20) (RU52)/39	6	2437	12.70	13.50	No
	802.11be(EHT20) (RU52)/39	10	2457	12.66	13.50	No
	802.11be(EHT20) (RU52)/40	11	2462	7.63	8.50	No
	802.11be(EHT20) (RU52)/40	12	2467	4.07	4.50	No
	802.11be(EHT20) (RU52)/40	13	2472	-10.42	-9.50	No

	802.11be(EHT20) (RU106)/53	1	2412	10.94	11.50	No
	802.11be(EHT20) (RU106)/53	2	2417	13.35	13.50	No
	802.11be(EHT20) (RU106)/53	6	2437	13.27	13.50	No
	802.11be(EHT20) (RU106)/53	10	2457	13.03	13.50	No
	802.11be(EHT20) (RU106)/54	11	2462	7.68	8.50	No
	802.11be(EHT20) (RU106)/54	12	2467	3.73	4.50	No
	802.11be(EHT20) (RU106)/54	13	2472	-9.90	-9.50	No
	802.11be(EHT20) (RU242)/55	6	2437	7.90	8.50	No
	802.11be(EHT40) (RU484)/55	6	2437	5.18	5.50	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, or the SPLSR value ≤0.04 the MIMO SAR test is not required.

8.1.7 5G WIFI (Aux. Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	10.17	11.00	No
		40	5200	11.06	11.50	No
		48	5240	10.85	11.50	No
	802.11n(HT20)	36	5180	10.67	11.50	No
		40	5200	11.22	11.50	No
		48	5240	11.04	11.50	No
	802.11n(HT40)	38	5190	10.85	11.50	No
		46	5230	10.89	11.50	No
	802.11ac(VHT20)	36	5180	10.88	11.50	No
		40	5200	11.10	11.50	No
		48	5240	10.89	11.50	No
	802.11ac(VHT40)	38	5190	10.90	11.50	No
		46	5230	10.81	11.50	No
	802.11ac(VHT80)	42	5210	11.10	11.50	No
	802.11ac(VHT160)	50	5250	9.51	11.00	No
	802.11ax(HE20) (SU)	36	5180	11.22	11.50	No
		40	5200	11.32	11.50	No
		48	5240	10.83	11.50	No
	802.11ax(HE40) (SU)	38	5190	10.85	11.50	No
		46	5230	11.35	11.50	No
	802.11ax(HE80) (SU)	42	5210	11.28	11.50	No
	802.11ax(HE160) (SU)	50	5250	9.51	11.50	No
	802.11be(EHT20) (SU)	36	5180	10.74	11.50	No
		40	5200	11.30	11.50	No
		48	5240	10.72	11.50	No
	802.11be(EHT40) (SU)	38	5190	11.35	11.50	No
		46	5230	10.95	11.50	No
	802.11be(EHT80) (SU)	42	5210	10.60	11.50	No
	802.11be(EHT160) (SU)	50	5250	9.52	11.50	No
	802.11ax(HE20) (RU26)/0	36	5180	1.93	2.50	No
	802.11ax(HE20) (RU26)/4	40	5200	1.81	2.50	No
	802.11ax(HE20) (RU26)/8	48	5240	2.25	2.50	No
	802.11ax(HE20)	36	5180	1.78	2.50	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	4.92	5.50	No
	802.11ax(HE20) (RU52)/40	48	5240	5.12	5.50	No
	802.11ax(HE20) (RU106)/53	36	5180	2.10	2.50	No
	802.11ax(HE20) (RU106)/53	40	5200	5.31	5.50	No
	802.11ax(HE20) (RU106)/54	48	5240	4.68	5.50	No
	802.11be(EHT20) (RU26)/0	36	5180	2.01	2.50	No
	802.11be(EHT20) (RU26)/4	40	5200	1.87	2.50	No
	802.11be(EHT20) (RU26)/8	48	5240	1.66	2.50	No
	802.11be(EHT20) (RU52)/37	36	5180	1.78	2.50	No
	802.11be(EHT20) (RU52)/39	40	5200	4.81	5.50	No
	802.11be(EHT20) (RU52)/40	48	5240	4.99	5.50	No
	802.11be(EHT20) (RU106)/53	36	5180	2.04	2.50	No
	802.11be(EHT20) (RU106)/53	40	5200	4.94	5.50	No
	802.11be(EHT20) (RU106)/54	48	5240	5.34	5.50	No
	802.11be(EHT20) (RU242)/61	36	5180	9.88	10.50	No
	802.11be(EHT20) (RU242)/61	40	5200	9.93	10.50	No
	802.11be(EHT20) (RU242)/61	48	5240	9.89	10.50	No
	802.11be(EHT40) (RU484)/65	38	5190	10.57	11.50	No
	802.11be(EHT40) (RU484)/65	46	5230	11.29	11.50	No
	802.11be(EHT80) (RU996)/67	42	5210	8.83	9.50	No
	802.11be(EHT160) (RU1992)/68	50	5250	8.92	10.50	No

5.3	802.11a	52	5260	10.71	11.50	No
		60	5300	11.08	11.50	No
		64	5320	11.10	11.50	No
	802.11n(HT20)	52	5260	11.11	11.50	No
		60	5300	11.25	11.50	No
		64	5320	10.87	11.50	No
	802.11n(HT40)	54	5270	10.60	11.50	No
		62	5310	10.92	11.50	No
	802.11ac(VHT20)	52	5260	10.73	11.50	No
		60	5300	10.64	11.50	No
		64	5320	11.04	11.50	No
	802.11ac(VHT40)	54	5270	10.64	11.50	No
		62	5310	10.83	11.50	No
	802.11ac(VHT80)	58	5290	11.09	11.50	Yes
	802.11ax(HE20) (SU)	52	5260	10.99	11.50	No
		60	5300	10.90	11.50	No
		64	5320	11.19	11.50	No
	802.11ax(HE40) (SU)	54	5270	10.81	11.50	No
		62	5310	11.32	11.50	No
	802.11ax(HE80) (SU)	58	5290	10.71	11.50	No
	802.11be(EHT20) (SU)	52	5260	11.04	11.50	No
		60	5300	11.12	11.50	No
		64	5320	11.12	11.50	No
	802.11be(EHT40) (SU)	54	5270	11.04	11.50	No
		62	5310	11.33	11.50	No
	802.11be(EHT80) (SU)	58	5290	11.05	11.50	No
	802.11ax(HE20) (RU26)/0	52	5260	5.08	5.50	No
	802.11ax(HE20) (RU26)/4	60	5300	5.29	5.50	No
	802.11ax(HE20) (RU26)/8	64	5320	8.94	9.50	No
	802.11ax(HE20) (RU52)/37	52	5260	4.78	5.50	No
	802.11ax(HE20) (RU52)/39	60	5300	5.23	5.50	No
	802.11ax(HE20) (RU52)/40	64	5320	9.06	9.50	No
	802.11ax(HE20) (RU106)/53	52	5260	5.09	5.50	No
	802.11ax(HE20)	60	5300	5.02	5.50	No

	(RU106)/53					
	802.11ax(EHT20) (RU106)/54	64	5320	9.16	9.50	No
	802.11be(EHT20) (RU26)/0	52	5260	4.97	5.50	No
	802.11be(EHT20) (RU26)/4	60	5300	5.32	5.50	No
	802.11be(EHT20) (RU26)/8	64	5320	8.74	9.50	No
	802.11be(EHT20) (RU52)/37	52	5260	4.95	5.50	No
	802.11be(EHT20) (RU52)/39	60	5300	5.27	5.50	No
	802.11be(EHT20) (RU52)/40	64	5320	9.21	9.50	No
	802.11be(EHT20) (RU106)/53	52	5260	4.99	5.50	No
	802.11be(EHT20) (RU106)/53	60	5300	5.21	5.50	No
	802.11be(EHT20) (RU106)/54	64	5320	8.56	9.50	No
	802.11be(EHT20) (RU242)/61	52	5260	9.79	10.50	No
	802.11be(EHT20) (RU242)/61	60	5300	9.89	10.50	No
	802.11be(EHT20) (RU242)/61	64	5320	10.81	11.50	No
	802.11be(EHT40) (RU484)/65	54	5270	11.18	11.50	No
	802.11be(EHT40) (RU484)/65	62	5310	9.01	9.50	No
	802.11be(EHT80) (RU996)/67	58	5290	8.73	9.50	No
5.6	802.11a	100	5500	12.19	12.50	No
		116	5580	12.14	12.50	No
		144	5720	11.77	12.50	No
	802.11n(HT20)	100	5500	11.77	12.50	No
		116	5580	11.77	12.50	No
		140	5700	12.18	12.50	No
		144	5720	11.76	12.50	No
	802.11n(HT40)	102	5510	10.86	11.50	No
		110	5550	10.74	11.50	No
		134	5670	10.57	11.50	No

		142	5710	10.85	11.50	No
	802.11ac(VHT20)	100	5500	11.94	12.50	No
		116	5580	12.09	12.50	No
		140	5700	12.03	12.50	No
		144	5720	12.18	12.50	No
	802.11ac(VHT40)	102	5510	11.03	11.50	No
		110	5550	10.55	11.50	No
		134	5670	10.77	11.50	No
		142	5710	10.85	11.50	No
	802.11ac(VHT80)	106	5530	12.36	12.50	Yes
		122	5610	12.12	12.50	Yes
		138	5690	12.41	12.50	Yes
	802.11ac(VHT160)	114	5570	10.95	11.00	No
	802.11ax(HE20) (SU)	100	5500	11.61	12.50	No
		116	5580	12.16	12.50	No
		140	5700	11.66	12.50	No
		144	5720	11.66	12.50	No
	802.11ax(HE40) (SU)	102	5510	10.75	11.50	No
		110	5550	11.18	11.50	No
		134	5670	11.27	11.50	No
		142	5710	11.22	11.50	No
	802.11ax(HE80) (SU)	106	5530	11.80	12.50	No
		122	5610	11.59	12.50	No
		138	5690	11.55	12.50	No
	802.11ax(HE160) (SU)	114	5570	10.87	11.00	No
	802.11be(EHT20) (SU)	100	5500	12.07	12.50	No
		116	5580	12.10	12.50	No
		140	5700	11.65	12.50	No
		144	5720	12.13	12.50	No
	802.11be(EHT40) (SU)	102	5510	10.94	11.50	No
		110	5550	11.27	11.50	No
		134	5670	11.19	11.50	No
		142	5710	11.14	11.50	No
	802.11be(EHT80) (SU)	106	5530	11.65	12.50	No
		122	5610	11.81	12.50	No
		138	5690	11.81	12.50	No
	802.11be(EHT160) (SU)	114	5570	10.76	11.00	No
	802.11ax(HE20) (RU26)/0	100	5500	7.51	9.50	No
	802.11ax(HE20) (RU26)/4	116	5580	7.63	9.50	No

	802.11ax(HE20) (RU26)/8	140	5700	7.21	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	7.01	9.00	No
	802.11ax(HE20) (RU52)/37	100	5500	7.86	9.50	No
	802.11ax(HE20) (RU52)/39	116	5580	8.05	9.50	No
	802.11ax(HE20) (RU52)/40	140	5700	7.72	9.50	No
	802.11ax(HE20) (RU52)/40	144	5720	7.96	9.50	No
	802.11ax(HE20) (RU106)/53	100	5500	7.80	9.50	No
	802.11ax(HE20) (RU106)/53	116	5580	8.41	9.50	No
	802.11ax(HE20) (RU106)/54	140	5700	7.85	9.50	No
	802.11ax(HE20) (RU106)/54	144	5720	7.83	9.50	No
	802.11be(EHT20) (RU26)/0	100	5500	7.51	9.50	No
	802.11be(EHT20) (RU26)/4	116	5580	7.62	9.50	No
	802.11be(EHT20) (RU26)/8	140	5700	7.35	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	6.94	8.50	No
	802.11be(EHT20) (RU52)/37	100	5500	8.38	9.50	No
	802.11be(EHT20) (RU52)/39	116	5580	7.79	9.50	No
	802.11be(EHT20) (RU52)/39	140	5700	8.13	9.50	No
	802.11be(EHT20) (RU52)/40	144	5720	8.20	9.50	No
	802.11be(EHT20) (RU106)/53	100	5500	7.93	9.50	No
	802.11be(EHT20) (RU106)/53	116	5580	7.87	9.50	No
	802.11be(EHT20) (RU106)/54	140	5700	8.06	9.50	No
	802.11be(EHT20) (RU106)/54	144	5720	7.78	9.50	No

	802.11be(EHT20) (RU242)/61	100	5500	10.01	11.50	No
	802.11be(EHT20) (RU242)/61	116	5580	9.66	11.50	No
	802.11be(EHT20) (RU242)/61	140	5700	10.07	11.50	No
	802.11be(EHT20) (RU242)/61	144	5720	9.99	11.50	No
	802.11be(EHT40) (RU484)/65	102	5510	10.44	11.50	No
	802.11be(EHT40) (RU484)/65	110	5550	9.70	11.50	No
	802.11be(EHT40) (RU484)/65	134	5670	10.21	11.50	No
	802.11be(EHT40) (RU484)/65	142	5710	9.65	11.50	No
	802.11be(EHT80) (RU996)/67	106	5530	8.25	9.50	No
	802.11be(EHT80) (RU996)/67	122	5610	7.84	9.50	No
	802.11be(EHT80) (RU996)/67	138	5690	9.96	11.50	No
	802.11be(EHT160) (RU1992)/68	114	5570	9.12	10.50	No
5.8	802.11a	149	5745	11.73	12.50	No
		157	5785	12.11	12.50	No
		165	5825	12.12	12.50	No
	802.11n(HT20)	149	5745	11.78	12.50	No
		157	5785	11.61	12.50	No
		165	5825	11.81	12.50	No
	802.11n(HT40)	151	5755	12.05	12.50	No
		159	5795	12.07	12.50	No
	802.11ac(VHT20)	149	5745	12.00	12.50	No
		157	5785	11.63	12.50	No
		165	5825	11.83	12.50	No
	802.11ac(VHT40)	151	5755	12.18	12.50	No
		159	5795	11.66	12.50	No
	802.11ac(VHT80)	155	5775	11.92	12.50	Yes
	802.11ax(HE20) (SU)	149	5745	12.28	12.50	No
		157	5785	12.25	12.50	No
		165	5825	11.65	12.50	No
	802.11ax(HE40) (SU)	151	5755	11.66	12.50	No
		159	5795	11.68	12.50	No

	802.11ax(HE80) (SU)	155	5775	11.56	12.50	No
	802.11be(EHT20) (SU)	149	5745	12.13	12.50	No
		157	5785	11.78	12.50	No
		165	5825	11.77	12.50	No
	802.11be(EHT40) (SU)	151	5755	11.86	12.50	No
		159	5795	12.35	12.50	No
	802.11be(EHT80) (SU)	155	5775	12.15	12.50	No
	802.11ax(HE20) (RU26)/0	149	5745	8.00	9.50	No
	802.11ax(HE20) (RU26)/4	157	5785	7.80	9.50	No
	802.11ax(HE20) (RU26)/8	165	5825	7.95	9.50	No
	802.11ax(HE20) (RU52)/37	149	5745	8.04	9.50	No
	802.11ax(HE20) (RU52)/39	157	5785	7.88	9.50	No
	802.11ax(HE20) (RU52)/40	165	5825	8.37	9.50	No
	802.11ax(HE20) (RU106)/53	149	5745	7.73	9.50	No
	802.11ax(HE20) (RU106)/54	157	5785	7.89	9.50	No
	802.11ax(HE20) (RU106)/54	165	5825	8.06	9.50	No
	802.11be(EHT20) (RU26)/0	149	5745	8.20	9.50	No
	802.11be(EHT20) (RU26)/4	157	5785	7.82	9.50	No
	802.11be(EHT20) (RU26)/8	165	5825	8.04	9.50	No
	802.11be(EHT20) (RU52)/37	149	5745	8.41	9.50	No
	802.11be(EHT20) (RU52)/39	157	5785	8.04	9.50	No
	802.11be(EHT20) (RU52)/40	165	5825	8.45	9.50	No
	802.11be(EHT20) (RU106)/53	149	5745	8.23	9.50	No
	802.11be(EHT20) (RU106)/53	157	5785	7.97	9.50	No

	802.11be(EHT20) (RU106)/54	165	5825	8.09	9.50	No
	802.11be(EHT20) (RU242)/61	149	5745	9.93	11.50	No
	802.11be(EHT20) (RU242)/61	157	5785	10.36	11.50	No
	802.11be(EHT20) (RU242)/61	165	5825	9.73	11.50	No
	802.11be(EHT40) (RU484)/65	151	5755	11.11	12.50	No
	802.11be(EHT40) (RU484)/65	159	5795	10.74	12.50	No
	802.11be(EHT80) (RU996)/67	155	5775	9.65	11.50	No
5.9	802.11a	169	5845	12.12	12.50	No
		173	5865	11.86	12.50	No
		177	5885	11.64	12.50	No
	802.11n(HT20)	169	5845	11.62	12.50	No
		173	5865	11.91	12.50	No
		177	5885	12.35	12.50	No
	802.11n(HT40)	167	5835	11.78	12.50	No
		175	5875	11.68	12.50	No
	802.11ac(VHT20)	169	5845	11.88	12.50	No
		173	5865	11.98	12.50	No
		177	5885	12.28	12.50	No
	802.11ac(VHT40)	167	5835	11.71	12.50	No
		175	5875	12.11	12.50	No
	802.11ac(VHT80)	171	5855	12.15	12.50	Yes
	802.11ac(VHT160)	163	5815	9.78	11.00	No
	802.11ax(HE20) (SU)	169	5845	11.76	12.50	No
		173	5865	11.62	12.50	No
		177	5885	12.20	12.50	No
	802.11ax(HE40) (SU)	167	5835	11.60	12.50	No
		175	5875	11.92	12.50	No
	802.11ax(HE80) (SU)	171	5855	12.28	12.50	No
	802.11ax(HE160) (SU)	163	5815	9.31	11.00	No
	802.11be(EHT20) (SU)	169	5845	12.13	12.50	No
		173	5865	12.04	12.50	No
		177	5885	11.63	12.50	No
	802.11be(EHT40) (SU)	167	5835	11.93	12.50	No
		175	5875	12.26	12.50	No

	802.11be(EHT80) (SU)	171	5855	11.89	12.50	No
	802.11be(EHT160) (SU)	163	5815	9.22	11.00	No
	802.11be(EHT20) (RU26)/0	169	5845	5.12	6.00	No
	802.11be(EHT20) (RU26)/4	173	5865	5.08	6.00	No
	802.11be(EHT20) (RU26)/8	177	5885	4.63	6.00	No
	802.11be(EHT20) (RU52)/37	169	5845	8.01	10.00	No
	802.11be(EHT20) (RU52)/39	173	5865	8.11	10.00	No
	802.11be(EHT20) (RU52)/40	177	5885	8.03	10.00	No
	802.11be(EHT20) (RU106)/53	169	5845	11.02	12.00	No
	802.11be(EHT20) (RU106)/54	173	5865	11.27	12.00	No
	802.11be(EHT20) (RU106)/54	177	5885	9.12	11.00	No
	802.11be(EHT20) (RU242)/61	169	5845	9.96	11.50	No
	802.11be(EHT20) (RU242)/61	173	5865	10.04	11.50	No
	802.11be(EHT20) (RU242)/61	177	5885	9.89	11.50	No
	802.11be(EHT40) (RU484)/65	167	5835	10.88	12.50	No
	802.11be(EHT40) (RU484)/65	175	5875	11.44	12.50	No
	802.11be(EHT80) (RU996)/67	171	5855	9.81	11.50	No
	802.11be(EHT160) (RU1992)/68	163	5815	8.69	10.50	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.

8.1.8 5G WIFI (Main Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	10.09	11.00	No
		40	5200	10.76	11.50	No
		48	5240	10.60	11.50	No
	802.11n(HT20)	36	5180	11.25	11.50	No
		40	5200	10.80	11.50	No
		48	5240	11.09	11.50	No
	802.11n(HT40)	38	5190	11.31	11.50	No
		46	5230	11.34	11.50	No
	802.11ac(VHT20)	36	5180	11.09	11.50	No
		40	5200	10.73	11.50	No
		48	5240	10.78	11.50	No
	802.11ac(VHT40)	38	5190	10.70	11.50	No
		46	5230	11.27	11.50	No
	802.11ac(VHT80)	42	5210	11.34	11.50	No
	802.11ac(VHT160)	50	5250	9.02	11.00	No
	802.11ax(HE20) (SU)	36	5180	10.83	11.50	No
		40	5200	10.89	11.50	No
		48	5240	10.74	11.50	No
	802.11ax(HE40) (SU)	38	5190	10.67	11.50	No
		46	5230	10.77	11.50	No
	802.11ax(HE80) (SU)	42	5210	11.23	11.50	No
	802.11ax(HE160) (SU)	50	5250	9.03	11.00	No
	802.11be(EHT20) (SU)	36	5180	10.92	11.50	No
		40	5200	11.27	11.50	No
		48	5240	10.65	11.50	No
	802.11be(EHT40) (SU)	38	5190	11.35	11.50	No
		46	5230	11.08	11.50	No
	802.11be(EHT80) (SU)	42	5210	11.11	11.50	No
	802.11be(EHT160) (SU)	50	5250	9.01	11.00	No
	802.11ax(HE20) (RU26)/0	36	5180	1.55	2.50	No
	802.11ax(HE20) (RU26)/4	40	5200	2.18	2.50	No
	802.11ax(HE20) (RU26)/8	48	5240	2.20	2.50	No
	802.11ax(HE20)	36	5180	2.04	2.50	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	4.97	5.50	No
	802.11ax(HE20) (RU52)/40	48	5240	4.84	5.50	No
	802.11ax(HE20) (RU106)/53	36	5180	2.04	2.50	No
	802.11ax(HE20) (RU106)/53	40	5200	4.68	5.50	No
	802.11ax(HE20) (RU106)/54	48	5240	4.94	5.50	No
	802.11be(EHT20) (RU26)/0	36	5180	2.12	2.50	No
	802.11be(EHT20) (RU26)/4	40	5200	1.75	2.50	No
	802.11be(EHT20) (RU26)/8	48	5240	2.06	2.50	No
	802.11be(EHT20) (RU52)/37	36	5180	2.14	2.50	No
	802.11be(EHT20) (RU52)/39	40	5200	5.25	5.50	No
	802.11be(EHT20) (RU52)/40	48	5240	4.75	5.50	No
	802.11be(EHT20) (RU106)/53	36	5180	2.34	2.50	No
	802.11be(EHT20) (RU106)/53	40	5200	5.03	5.50	No
	802.11be(EHT20) (RU106)/54	48	5240	5.14	5.50	No
	802.11be(EHT20) (RU242)/61	36	5180	10.03	10.50	No
	802.11be(EHT20) (RU242)/61	40	5200	9.82	10.50	No
	802.11be(EHT20) (RU242)/61	48	5240	9.62	10.50	No
	802.11be(EHT40) (RU484)/65	38	5190	10.56	11.50	No
	802.11be(EHT40) (RU484)/65	46	5230	10.65	11.50	No
	802.11be(EHT80) (RU996)/67	42	5210	9.35	9.50	No
	802.11be(EHT160) (RU1992)/68	50	5250	8.97	10.50	No

5.3	802.11a	52	5260	10.55	11.50	No
		60	5300	11.28	11.50	No
		64	5320	10.72	11.50	No
	802.11n(HT20)	52	5260	10.55	11.50	No
		60	5300	11.23	11.50	No
		64	5320	11.04	11.50	No
	802.11n(HT40)	54	5270	10.99	11.50	No
		62	5310	10.74	11.50	No
	802.11ac(VHT20)	52	5260	11.26	11.50	No
		60	5300	10.92	11.50	No
		64	5320	11.26	11.50	No
	802.11ac(VHT40)	54	5270	11.06	11.50	No
		62	5310	10.63	11.50	No
	802.11ac(VHT80)	58	5290	11.21	11.50	Yes
	802.11ax(HE20) (SU)	52	5260	10.79	11.50	No
		60	5300	11.21	11.50	No
		64	5320	10.72	11.50	No
	802.11ax(HE40) (SU)	54	5270	10.92	11.50	No
		62	5310	10.92	11.50	No
	802.11ax(HE80) (SU)	58	5290	11.04	11.50	No
	802.11be(EHT20) (SU)	52	5260	11.28	11.50	No
		60	5300	10.62	11.50	No
		64	5320	10.72	11.50	No
	802.11be(EHT40) (SU)	54	5270	11.30	11.50	No
		62	5310	11.13	11.50	No
	802.11be(EHT80) (SU)	58	5290	11.14	11.50	No
	802.11ax(HE20) (RU26)/0	52	5260	4.81	5.50	No
	802.11ax(HE20) (RU26)/4	60	5300	5.27	5.50	No
	802.11ax(HE20) (RU26)/8	64	5320	8.77	9.50	No
	802.11ax(HE20) (RU52)/37	52	5260	4.94	5.50	No
	802.11ax(HE20) (RU52)/39	60	5300	5.32	5.50	No
	802.11ax(HE20) (RU52)/40	64	5320	8.63	9.50	No
	802.11ax(HE20) (RU106)/53	52	5260	4.56	5.50	No
	802.11ax(HE20)	60	5300	4.58	5.50	No

	(RU106)/53					
	802.11ax(EHT20) (RU106)/54	64	5320	8.63	9.50	No
	802.11be(EHT20) (RU26)/0	52	5260	4.81	5.50	No
	802.11be(EHT20) (RU26)/4	60	5300	5.04	5.50	No
	802.11be(EHT20) (RU26)/8	64	5320	8.86	9.50	No
	802.11be(EHT20) (RU52)/37	52	5260	4.99	5.50	No
	802.11be(EHT20) (RU52)/39	60	5300	5.34	5.50	No
	802.11be(EHT20) (RU52)/40	64	5320	9.26	9.50	No
	802.11be(EHT20) (RU106)/53	52	5260	5.16	5.50	No
	802.11be(EHT20) (RU106)/53	60	5300	4.58	5.50	No
	802.11be(EHT20) (RU106)/54	64	5320	9.11	9.50	No
	802.11be(EHT20) (RU242)/61	52	5260	10.24	10.50	No
	802.11be(EHT20) (RU242)/61	60	5300	9.60	10.50	No
	802.11be(EHT20) (RU242)/61	64	5320	11.01	11.50	No
	802.11be(EHT40) (RU484)/65	54	5270	10.64	11.50	No
	802.11be(EHT40) (RU484)/65	62	5310	8.67	9.50	No
	802.11be(EHT80) (RU996)/67	58	5290	8.91	9.50	No
5.6	802.11a	100	5500	11.72	12.50	No
		116	5580	12.10	12.50	No
		144	5720	11.93	12.50	No
	802.11n(HT20)	100	5500	11.83	12.50	No
		116	5580	12.12	12.50	No
		140	5700	12.14	12.50	No
		144	5720	11.87	12.50	No
	802.11n(HT40)	102	5510	10.62	11.50	No
		110	5550	10.64	11.50	No
		134	5670	11.29	11.50	No

		142	5710	11.31	11.50	No
	802.11ac(VHT20)	100	5500	12.23	12.50	No
		116	5580	11.64	12.50	No
		140	5700	12.26	12.50	No
		144	5720	11.58	12.50	No
	802.11ac(VHT40)	102	5510	11.22	11.50	No
		110	5550	10.94	11.50	No
		134	5670	11.01	11.50	No
		142	5710	11.00	11.50	No
	802.11ac(VHT80)	106	5530	12.30	12.50	Yes
		122	5610	12.31	12.50	Yes
		138	5690	12.34	12.50	Yes
	802.11ac(VHT160)	114	5570	10.70	11.00	No
	802.11ax(HE20) (SU)	100	5500	11.80	12.50	No
		116	5580	11.89	12.50	No
		140	5700	12.08	12.50	No
		144	5720	12.23	12.50	No
	802.11ax(HE40) (SU)	102	5510	11.05	11.50	No
		110	5550	10.61	11.50	No
		134	5670	10.89	11.50	No
		142	5710	10.89	11.50	No
	802.11ax(HE80) (SU)	106	5530	11.86	12.50	No
		122	5610	11.58	12.50	No
		138	5690	11.91	12.50	No
	802.11ax(HE160) (SU)	114	5570	10.62	11.00	No
	802.11be(EHT20) (SU)	100	5500	12.21	12.50	No
		116	5580	11.96	12.50	No
		140	5700	12.23	12.50	No
		144	5720	12.23	12.50	No
	802.11be(EHT40) (SU)	102	5510	10.60	11.50	No
		110	5550	11.25	11.50	No
		134	5670	11.27	11.50	No
		142	5710	10.94	11.50	No
	802.11be(EHT80) (SU)	106	5530	12.17	12.50	No
		122	5610	12.26	12.50	No
		138	5690	12.18	12.50	No
	802.11be(EHT160) (SU)	114	5570	10.62	11.00	No
	802.11ax(HE20) (RU26)/0	100	5500	7.52	9.50	No
	802.11ax(HE20) (RU26)/4	116	5580	7.66	9.50	No

	802.11ax(HE20) (RU26)/8	140	5700	7.01	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	7.01	9.00	No
	802.11ax(HE20) (RU52)/37	100	5500	7.65	9.50	No
	802.11ax(HE20) (RU52)/39	116	5580	7.92	9.50	No
	802.11ax(HE20) (RU52)/40	140	5700	8.09	9.50	No
	802.11ax(HE20) (RU52)/40	144	5720	7.72	9.50	No
	802.11ax(HE20) (RU106)/53	100	5500	7.76	9.50	No
	802.11ax(HE20) (RU106)/53	116	5580	8.29	9.50	No
	802.11ax(HE20) (RU106)/54	140	5700	7.95	9.50	No
	802.11ax(HE20) (RU106)/54	144	5720	7.90	9.50	No
	802.11be(EHT20) (RU26)/0	100	5500	7.52	9.50	No
	802.11be(EHT20) (RU26)/4	116	5580	7.52	9.50	No
	802.11be(EHT20) (RU26)/8	140	5700	7.10	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	6.97	8.50	No
	802.11be(EHT20) (RU52)/37	100	5500	8.27	9.50	No
	802.11be(EHT20) (RU52)/39	116	5580	7.85	9.50	No
	802.11be(EHT20) (RU52)/39	140	5700	7.71	9.50	No
	802.11be(EHT20) (RU52)/40	144	5720	7.79	9.50	No
	802.11be(EHT20) (RU106)/53	100	5500	8.27	9.50	No
	802.11be(EHT20) (RU106)/53	116	5580	7.74	9.50	No
	802.11be(EHT20) (RU106)/54	140	5700	7.74	9.50	No
	802.11be(EHT20) (RU106)/54	144	5720	7.72	9.50	No

	802.11be(EHT20) (RU242)/61	100	5500	10.30	11.50	No
	802.11be(EHT20) (RU242)/61	116	5580	9.93	11.50	No
	802.11be(EHT20) (RU242)/61	140	5700	10.00	11.50	No
	802.11be(EHT20) (RU242)/61	144	5720	10.00	11.50	No
	802.11be(EHT40) (RU484)/65	102	5510	9.88	11.50	No
	802.11be(EHT40) (RU484)/65	110	5550	10.38	11.50	No
	802.11be(EHT40) (RU484)/65	134	5670	9.97	11.50	No
	802.11be(EHT40) (RU484)/65	142	5710	9.98	11.50	No
	802.11be(EHT80) (RU996)/67	106	5530	7.90	9.50	No
	802.11be(EHT80) (RU996)/67	122	5610	7.70	9.50	No
	802.11be(EHT80) (RU996)/67	138	5690	10.02	11.50	No
	802.11be(EHT160) (RU1992)/68	114	5570	8.98	10.50	No
5.8	802.11a	149	5745	11.96	12.50	No
		157	5785	11.56	12.50	No
		165	5825	11.67	12.50	No
	802.11n(HT20)	149	5745	11.94	12.50	No
		157	5785	11.67	12.50	No
		165	5825	12.19	12.50	No
	802.11n(HT40)	151	5755	12.09	12.50	No
		159	5795	12.12	12.50	No
	802.11ac(VHT20)	149	5745	11.65	12.50	No
		157	5785	12.22	12.50	No
		165	5825	11.79	12.50	No
	802.11ac(VHT40)	151	5755	11.61	12.50	No
		159	5795	12.07	12.50	No
	802.11ac(VHT80)	155	5775	11.53	12.50	Yes
	802.11ax(HE20) (SU)	149	5745	12.32	12.50	No
		157	5785	11.70	12.50	No
		165	5825	11.99	12.50	No
	802.11ax(HE40) (SU)	151	5755	11.93	12.50	No
		159	5795	12.26	12.50	No

	802.11ax(HE80) (SU)	155	5775	12.32	12.50	No
	802.11be(EHT20) (SU)	149	5745	11.92	12.50	No
		157	5785	12.08	12.50	No
		165	5825	11.66	12.50	No
	802.11be(EHT40) (SU)	151	5755	12.32	12.50	No
		159	5795	12.35	12.50	No
	802.11be(EHT80) (SU)	155	5775	11.68	12.50	No
	802.11ax(HE20) (RU26)/0	149	5745	8.09	9.50	No
	802.11ax(HE20) (RU26)/4	157	5785	7.78	9.50	No
	802.11ax(HE20) (RU26)/8	165	5825	7.89	9.50	No
	802.11ax(HE20) (RU52)/37	149	5745	8.45	9.50	No
	802.11ax(HE20) (RU52)/39	157	5785	7.67	9.50	No
	802.11ax(HE20) (RU52)/40	165	5825	7.71	9.50	No
	802.11ax(HE20) (RU106)/53	149	5745	8.25	9.50	No
	802.11ax(HE20) (RU106)/54	157	5785	8.28	9.50	No
	802.11ax(HE20) (RU106)/54	165	5825	8.43	9.50	No
	802.11be(EHT20) (RU26)/0	149	5745	7.69	9.50	No
	802.11be(EHT20) (RU26)/4	157	5785	8.04	9.50	No
	802.11be(EHT20) (RU26)/8	165	5825	8.14	9.50	No
	802.11be(EHT20) (RU52)/37	149	5745	7.91	9.50	No
	802.11be(EHT20) (RU52)/39	157	5785	8.42	9.50	No
	802.11be(EHT20) (RU52)/40	165	5825	8.39	9.50	No
	802.11be(EHT20) (RU106)/53	149	5745	7.94	9.50	No
	802.11be(EHT20) (RU106)/53	157	5785	8.26	9.50	No

	802.11be(EHT20) (RU106)/54	165	5825	7.73	9.50	No
	802.11be(EHT20) (RU242)/61	149	5745	9.81	11.50	No
	802.11be(EHT20) (RU242)/61	157	5785	10.18	11.50	No
	802.11be(EHT20) (RU242)/61	165	5825	10.22	11.50	No
	802.11be(EHT40) (RU484)/65	151	5755	10.86	12.50	No
	802.11be(EHT40) (RU484)/65	159	5795	11.15	12.50	No
	802.11be(EHT80) (RU996)/67	155	5775	9.97	11.50	No
5.9	802.11a	169	5845	11.72	12.50	No
		173	5865	11.68	12.50	No
		177	5885	11.86	12.50	No
	802.11n(HT20)	169	5845	11.81	12.50	No
		173	5865	11.85	12.50	No
		177	5885	11.68	12.50	No
	802.11n(HT40)	167	5835	12.08	12.50	No
		175	5875	11.99	12.50	No
	802.11ac(VHT20)	169	5845	12.19	12.50	No
		173	5865	12.16	12.50	No
		177	5885	12.15	12.50	No
	802.11ac(VHT40)	167	5835	11.68	12.50	No
		175	5875	12.03	12.50	No
	802.11ac(VHT80)	171	5855	12.41	12.50	Yes
	802.11ac(VHT160)	163	5815	9.71	11.00	No
	802.11ax(HE20) (SU)	169	5845	11.97	12.50	No
		173	5865	11.80	12.50	No
		177	5885	11.58	12.50	No
	802.11ax(HE40) (SU)	167	5835	11.57	12.50	No
		175	5875	12.20	12.50	No
	802.11ax(HE80) (SU)	171	5855	11.76	12.50	No
	802.11ax(HE160) (SU)	163	5815	9.46	11.00	No
	802.11be(EHT20) (SU)	169	5845	12.04	12.50	No
		173	5865	12.19	12.50	No
		177	5885	11.87	12.50	No
	802.11be(EHT40) (SU)	167	5835	12.29	12.50	No
		175	5875	12.19	12.50	No

	802.11be(EHT80) (SU)	171	5855	11.95	12.50	No
	802.11be(EHT160) (SU)	163	5815	9.84	11.00	No
	802.11be(EHT20) (RU26)/0	169	5845	4.50	5.00	No
	802.11be(EHT20) (RU26)/4	173	5865	4.49	5.00	No
	802.11be(EHT20) (RU26)/8	177	5885	4.23	5.00	No
	802.11be(EHT20) (RU52)/37	169	5845	7.56	9.00	No
	802.11be(EHT20) (RU52)/39	173	5865	8.01	9.00	No
	802.11be(EHT20) (RU52)/40	177	5885	7.33	8.00	No
	802.11be(EHT20) (RU106)/53	169	5845	10.62	12.00	No
	802.11be(EHT20) (RU106)/54	173	5865	10.88	12.00	No
	802.11be(EHT20) (RU106)/54	177	5885	9.01	10.00	No
	802.11be(EHT20) (RU242)/61	169	5845	10.04	11.50	No
	802.11be(EHT20) (RU242)/61	173	5865	10.37	11.50	No
	802.11be(EHT20) (RU242)/61	177	5885	10.03	11.50	No
	802.11be(EHT40) (RU484)/65	167	5835	11.01	12.50	No
	802.11be(EHT40) (RU484)/65	175	5875	10.69	12.50	No
	802.11be(EHT80) (RU996)/67	171	5855	9.67	11.50	No
	802.11be(EHT160) (RU1992)/68	163	5815	9.37	10.50	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.

8.1.9 5G WIFI (MIMO) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	10.72	11.00	No
		40	5200	11.15	11.50	No
		48	5240	10.75	11.50	No
	802.11n(HT20)	36	5180	11.18	11.50	No
		40	5200	10.59	11.50	No
		48	5240	10.59	11.50	No
	802.11n(HT40)	38	5190	10.76	11.50	No
		46	5230	10.83	11.50	No
	802.11ac(VHT20)	36	5180	10.83	11.50	No
		40	5200	10.68	11.50	No
		48	5240	10.93	11.50	No
	802.11ac(VHT40)	38	5190	10.85	11.50	No
		46	5230	10.79	11.50	No
	802.11ac(VHT80)	42	5210	10.88	11.50	No
	802.11ac(VHT160)	50	5250	9.63	11.00	No
	802.11ax(HE20) (SU)	36	5180	10.87	11.50	No
		40	5200	10.71	11.50	No
		48	5240	11.13	11.50	No
	802.11ax(HE40) (SU)	38	5190	11.01	11.50	No
		46	5230	10.89	11.50	No
	802.11ax(HE80) (SU)	42	5210	11.27	11.50	No
	802.11ax(HE160) (SU)	50	5250	9.65	11.00	No
	802.11be(EHT20) (SU)	36	5180	10.69	11.50	No
		40	5200	10.80	11.50	No
		48	5240	10.84	11.50	No
	802.11be(EHT40) (SU)	38	5190	11.33	11.50	No
		46	5230	11.33	11.50	No
	802.11be(EHT80) (SU)	42	5210	11.22	11.50	No
	802.11be(EHT160) (SU)	50	5250	9.73	11.00	No
	802.11ax(HE20) (RU26)/0	36	5180	1.66	2.50	No
	802.11ax(HE20) (RU26)/4	40	5200	1.66	2.50	No
	802.11ax(HE20) (RU26)/8	48	5240	1.55	2.50	No
	802.11ax(HE20)	36	5180	1.75	2.50	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	4.96	5.50	No
	802.11ax(HE20) (RU52)/40	48	5240	5.16	5.50	No
	802.11ax(HE20) (RU106)/53	36	5180	2.27	2.50	No
	802.11ax(HE20) (RU106)/53	40	5200	5.24	5.50	No
	802.11ax(HE20) (RU106)/54	48	5240	4.55	5.50	No
	802.11be(EHT20) (RU26)/0	36	5180	2.19	2.50	No
	802.11be(EHT20) (RU26)/4	40	5200	1.88	2.50	No
	802.11be(EHT20) (RU26)/8	48	5240	1.84	2.50	No
	802.11be(EHT20) (RU52)/37	36	5180	2.19	2.50	No
	802.11be(EHT20) (RU52)/39	40	5200	4.63	5.50	No
	802.11be(EHT20) (RU52)/40	48	5240	5.01	5.50	No
	802.11be(EHT20) (RU106)/53	36	5180	1.97	2.50	No
	802.11be(EHT20) (RU106)/53	40	5200	4.89	5.50	No
	802.11be(EHT20) (RU106)/54	48	5240	5.20	5.50	No
	802.11be(EHT20) (RU242)/61	36	5180	9.86	10.50	No
	802.11be(EHT20) (RU242)/61	40	5200	9.60	10.50	No
	802.11be(EHT20) (RU242)/61	48	5240	10.01	10.50	No
	802.11be(EHT40) (RU484)/65	38	5190	11.21	11.50	No
	802.11be(EHT40) (RU484)/65	46	5230	10.74	11.50	No
	802.11be(EHT80) (RU996)/67	42	5210	9.12	9.50	No
	802.11be(EHT160) (RU1992)/68	50	5250	8.57	10.50	No

5.3	802.11a	52	5260	11.34	11.50	No
		60	5300	10.97	11.50	No
		64	5320	11.06	11.50	No
	802.11n(HT20)	52	5260	10.88	11.50	No
		60	5300	10.71	11.50	No
		64	5320	11.10	11.50	No
	802.11n(HT40)	54	5270	10.62	11.50	No
		62	5310	11.25	11.50	No
	802.11ac(VHT20)	52	5260	10.69	11.50	No
		60	5300	10.57	11.50	No
		64	5320	11.31	11.50	No
	802.11ac(VHT40)	54	5270	10.90	11.50	No
		62	5310	11.17	11.50	No
	802.11ac(VHT80)	58	5290	11.07	11.50	No
	802.11ax(HE20) (SU)	52	5260	10.88	11.50	No
		60	5300	10.88	11.50	No
		64	5320	10.68	11.50	No
	802.11ax(HE40) (SU)	54	5270	10.63	11.50	No
		62	5310	11.09	11.50	No
	802.11ax(HE80) (SU)	58	5290	10.80	11.50	No
	802.11be(EHT20) (SU)	52	5260	10.90	11.50	No
		60	5300	10.99	11.50	No
		64	5320	10.99	11.50	No
	802.11be(EHT40) (SU)	54	5270	11.02	11.50	No
		62	5310	10.63	11.50	No
	802.11be(EHT80) (SU)	58	5290	10.81	11.50	No
	802.11ax(HE20) (RU26)/0	52	5260	5.23	5.50	No
	802.11ax(HE20) (RU26)/4	60	5300	4.73	5.50	No
	802.11ax(HE20) (RU26)/8	64	5320	9.35	9.50	No
	802.11ax(HE20) (RU52)/37	52	5260	5.13	5.50	No
	802.11ax(HE20) (RU52)/39	60	5300	4.57	5.50	No
	802.11ax(HE20) (RU52)/40	64	5320	9.23	9.50	No
	802.11ax(HE20) (RU106)/53	52	5260	5.20	5.50	No
	802.11ax(HE20)	60	5300	4.76	5.50	No

	(RU106)/53					
	802.11ax(EHT20) (RU106)/54	64	5320	9.28	9.50	No
	802.11be(EHT20) (RU26)/0	52	5260	5.13	5.50	No
	802.11be(EHT20) (RU26)/4	60	5300	4.99	5.50	No
	802.11be(EHT20) (RU26)/8	64	5320	8.92	9.50	No
	802.11be(EHT20) (RU52)/37	52	5260	5.00	5.50	No
	802.11be(EHT20) (RU52)/39	60	5300	5.11	5.50	No
	802.11be(EHT20) (RU52)/40	64	5320	9.18	9.50	No
	802.11be(EHT20) (RU106)/53	52	5260	5.35	5.50	No
	802.11be(EHT20) (RU106)/53	60	5300	5.07	5.50	No
	802.11be(EHT20) (RU106)/54	64	5320	9.35	9.50	No
	802.11be(EHT20) (RU242)/61	52	5260	9.90	10.50	No
	802.11be(EHT20) (RU242)/61	60	5300	9.76	10.50	No
	802.11be(EHT20) (RU242)/61	64	5320	10.91	11.50	No
	802.11be(EHT40) (RU484)/65	54	5270	10.67	11.50	No
	802.11be(EHT40) (RU484)/65	62	5310	8.62	9.50	No
	802.11be(EHT80) (RU996)/67	58	5290	8.79	9.50	No
5.6	802.11a	100	5500	11.88	12.50	No
		116	5580	12.04	12.50	No
		144	5720	11.64	12.50	No
	802.11n(HT20)	100	5500	12.20	12.50	No
		116	5580	11.93	12.50	No
		140	5700	11.58	12.50	No
		144	5720	11.58	12.50	No
	802.11n(HT40)	102	5510	11.11	11.50	No
		110	5550	11.04	11.50	No
		134	5670	11.20	11.50	No

		142	5710	11.00	11.50	No
	802.11ac(VHT20)	100	5500	12.19	12.50	No
		116	5580	11.87	12.50	No
		140	5700	11.94	12.50	No
		144	5720	12.19	12.50	No
	802.11ac(VHT40)	102	5510	10.62	11.50	No
		110	5550	11.09	11.50	No
		134	5670	10.86	11.50	No
		142	5710	10.62	11.50	No
	802.11ac(VHT80)	106	5530	11.59	12.50	No
		122	5610	11.77	12.50	No
		138	5690	12.04	12.50	No
	802.11ac(VHT160)	114	5570	10.56	11.00	No
	802.11ax(HE20) (SU)	100	5500	11.82	12.50	No
		116	5580	11.55	12.50	No
		140	5700	12.23	12.50	No
		144	5720	12.13	12.50	No
	802.11ax(HE40) (SU)	102	5510	11.07	11.50	No
		110	5550	10.89	11.50	No
		134	5670	11.10	11.50	No
		142	5710	11.19	11.50	No
	802.11ax(HE80) (SU)	106	5530	11.91	12.50	No
		122	5610	12.24	12.50	No
		138	5690	11.75	12.50	No
	802.11ax(HE160) (SU)	114	5570	10.26	11.00	No
	802.11be(EHT20) (SU)	100	5500	11.99	12.50	No
		116	5580	12.19	12.50	No
		140	5700	12.31	12.50	No
		144	5720	11.75	12.50	No
	802.11be(EHT40) (SU)	102	5510	11.23	11.50	No
		110	5550	10.97	11.50	No
		134	5670	11.05	11.50	No
		142	5710	11.12	11.50	No
	802.11be(EHT80) (SU)	106	5530	12.28	12.50	No
		122	5610	11.84	12.50	No
		138	5690	11.59	12.50	No
	802.11be(EHT160) (SU)	114	5570	10.40	11.00	No
	802.11ax(HE20) (RU26)/0	100	5500	7.65	9.50	No
	802.11ax(HE20) (RU26)/4	116	5580	8.31	9.50	No

	802.11ax(HE20) (RU26)/8	140	5700	8.33	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	7.67	9.00	No
	802.11ax(HE20) (RU52)/37	100	5500	7.71	9.50	No
	802.11ax(HE20) (RU52)/39	116	5580	8.26	9.50	No
	802.11ax(HE20) (RU52)/40	140	5700	8.00	9.50	No
	802.11ax(HE20) (RU52)/40	144	5720	8.25	9.50	No
	802.11ax(HE20) (RU106)/53	100	5500	7.89	9.50	No
	802.11ax(HE20) (RU106)/53	116	5580	7.83	9.50	No
	802.11ax(HE20) (RU106)/54	140	5700	8.36	9.50	No
	802.11ax(HE20) (RU106)/54	144	5720	8.17	9.50	No
	802.11be(EHT20) (RU26)/0	100	5500	7.95	9.50	No
	802.11be(EHT20) (RU26)/4	116	5580	7.86	9.50	No
	802.11be(EHT20) (RU26)/8	140	5700	8.23	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	8.44	8.50	No
	802.11be(EHT20) (RU52)/37	100	5500	7.92	9.50	No
	802.11be(EHT20) (RU52)/39	116	5580	7.82	9.50	No
	802.11be(EHT20) (RU52)/39	140	5700	8.06	9.50	No
	802.11be(EHT20) (RU52)/40	144	5720	7.82	9.50	No
	802.11be(EHT20) (RU106)/53	100	5500	7.90	9.50	No
	802.11be(EHT20) (RU106)/53	116	5580	7.74	9.50	No
	802.11be(EHT20) (RU106)/54	140	5700	8.06	9.50	No
	802.11be(EHT20) (RU106)/54	144	5720	7.86	9.50	No

	802.11be(EHT20) (RU242)/61	100	5500	9.87	11.50	No
	802.11be(EHT20) (RU242)/61	116	5580	10.24	11.50	No
	802.11be(EHT20) (RU242)/61	140	5700	9.93	11.50	No
	802.11be(EHT20) (RU242)/61	144	5720	10.04	11.50	No
	802.11be(EHT40) (RU484)/65	102	5510	9.98	11.50	No
	802.11be(EHT40) (RU484)/65	110	5550	10.02	11.50	No
	802.11be(EHT40) (RU484)/65	134	5670	10.31	11.50	No
	802.11be(EHT40) (RU484)/65	142	5710	10.14	11.50	No
	802.11be(EHT80) (RU996)/67	106	5530	7.95	9.50	No
	802.11be(EHT80) (RU996)/67	122	5610	8.16	9.50	No
	802.11be(EHT80) (RU996)/67	138	5690	9.87	11.50	No
	802.11be(EHT160) (RU1992)/68	114	5570	9.39	10.50	No
5.8	802.11a	149	5745	11.62	12.50	No
		157	5785	11.74	12.50	No
		165	5825	11.67	12.50	No
	802.11n(HT20)	149	5745	12.02	12.50	No
		157	5785	11.59	12.50	No
		165	5825	11.58	12.50	No
	802.11n(HT40)	151	5755	11.77	12.50	No
		159	5795	12.01	12.50	No
	802.11ac(VHT20)	149	5745	12.23	12.50	No
		157	5785	11.83	12.50	No
		165	5825	11.64	12.50	No
	802.11ac(VHT40)	151	5755	12.26	12.50	No
		159	5795	12.13	12.50	No
	802.11ac(VHT80)	155	5775	12.32	12.50	No
	802.11ax(HE20) (SU)	149	5745	12.14	12.50	No
		157	5785	11.72	12.50	No
		165	5825	11.58	12.50	No
	802.11ax(HE40) (SU)	151	5755	12.23	12.50	No
		159	5795	12.05	12.50	No

	802.11ax(HE80) (SU)	155	5775	11.95	12.50	No
	802.11be(EHT20) (SU)	149	5745	11.56	12.50	No
		157	5785	12.21	12.50	No
		165	5825	12.01	12.50	No
	802.11be(EHT40) (SU)	151	5755	11.75	12.50	No
		159	5795	11.73	12.50	No
	802.11be(EHT80) (SU)	155	5775	11.87	12.50	No
	802.11ax(HE20) (RU26)/0	149	5745	7.95	9.50	No
	802.11ax(HE20) (RU26)/4	157	5785	7.65	9.50	No
	802.11ax(HE20) (RU26)/8	165	5825	7.85	9.50	No
	802.11ax(HE20) (RU52)/37	149	5745	7.80	9.50	No
	802.11ax(HE20) (RU52)/39	157	5785	8.14	9.50	No
	802.11ax(HE20) (RU52)/40	165	5825	8.18	9.50	No
	802.11ax(HE20) (RU106)/53	149	5745	7.77	9.50	No
	802.11ax(HE20) (RU106)/54	157	5785	7.67	9.50	No
	802.11ax(HE20) (RU106)/54	165	5825	8.10	9.50	No
	802.11be(EHT20) (RU26)/0	149	5745	8.34	9.50	No
	802.11be(EHT20) (RU26)/4	157	5785	7.95	9.50	No
	802.11be(EHT20) (RU26)/8	165	5825	7.94	9.50	No
	802.11be(EHT20) (RU52)/37	149	5745	8.21	9.50	No
	802.11be(EHT20) (RU52)/39	157	5785	8.45	9.50	No
	802.11be(EHT20) (RU52)/40	165	5825	8.23	9.50	No
	802.11be(EHT20) (RU106)/53	149	5745	8.34	9.50	No
	802.11be(EHT20) (RU106)/53	157	5785	7.93	9.50	No

	802.11be(EHT20) (RU106)/54	165	5825	8.11	9.50	No
	802.11be(EHT20) (RU242)/61	149	5745	9.84	11.50	No
	802.11be(EHT20) (RU242)/61	157	5785	10.36	11.50	No
	802.11be(EHT20) (RU242)/61	165	5825	9.97	11.50	No
	802.11be(EHT40) (RU484)/65	151	5755	11.38	12.50	No
	802.11be(EHT40) (RU484)/65	159	5795	11.16	12.50	No
	802.11be(EHT80) (RU996)/67	155	5775	9.71	11.50	No
5.9	802.11a	169	5845	11.68	12.50	No
		173	5865	12.15	12.50	No
		177	5885	11.57	12.50	No
	802.11n(HT20)	169	5845	12.02	12.50	No
		173	5865	11.80	12.50	No
		177	5885	11.88	12.50	No
	802.11n(HT40)	167	5835	12.12	12.50	No
		175	5875	11.71	12.50	No
	802.11ac(VHT20)	169	5845	12.13	12.50	No
		173	5865	12.35	12.50	No
		177	5885	11.83	12.50	No
	802.11ac(VHT40)	167	5835	11.65	12.50	No
		175	5875	12.35	12.50	No
	802.11ac(VHT80)	171	5855	12.32	12.50	No
	802.11ac(VHT160)	163	5815	9.57	11.00	No
	802.11ax(HE20) (SU)	169	5845	12.29	12.50	No
		173	5865	12.12	12.50	No
		177	5885	11.63	12.50	No
	802.11ax(HE40) (SU)	167	5835	12.07	12.50	No
		175	5875	12.34	12.50	No
	802.11ax(HE80) (SU)	171	5855	11.70	12.50	No
	802.11ax(HE160) (SU)	163	5815	9.41	11.00	No
	802.11be(EHT20) (SU)	169	5845	12.27	12.50	No
		173	5865	12.16	12.50	No
		177	5885	11.73	12.50	No
	802.11be(EHT40) (SU)	167	5835	12.31	12.50	No
		175	5875	11.55	12.50	No

	802.11be(EHT80) (SU)	171	5855	11.74	12.50	No
	802.11be(EHT160) (SU)	163	5815	9.39	11.00	No
	802.11be(EHT20) (RU26)/0	169	5845	4.29	5.00	No
	802.11be(EHT20) (RU26)/4	173	5865	4.85	5.00	No
	802.11be(EHT20) (RU26)/8	177	5885	4.65	5.00	No
	802.11be(EHT20) (RU52)/37	169	5845	8.79	9.00	No
	802.11be(EHT20) (RU52)/39	173	5865	8.85	9.00	No
	802.11be(EHT20) (RU52)/40	177	5885	7.82	8.00	No
	802.11be(EHT20) (RU106)/53	169	5845	11.66	12.00	No
	802.11be(EHT20) (RU106)/54	173	5865	11.44	12.00	No
	802.11be(EHT20) (RU106)/54	177	5885	9.39	10.00	No
	802.11be(EHT20) (RU242)/61	169	5845	10.40	11.50	No
	802.11be(EHT20) (RU242)/61	173	5865	10.24	11.50	No
	802.11be(EHT20) (RU242)/61	177	5885	10.19	11.50	No
	802.11be(EHT40) (RU484)/65	167	5835	11.13	12.50	No
	802.11be(EHT40) (RU484)/65	175	5875	11.24	12.50	No
	802.11be(EHT80) (RU996)/67	171	5855	10.35	11.50	No
	802.11be(EHT160) (RU1992)/68	163	5815	9.05	10.50	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, or the SPLSR value ≤0.04 the MIMO SAR test is not required.

8.1.10 6G WIFI (Aux. Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	2	5935	-4.78	-3.50	No
		1	5955	10.30	12.00	No
		45	6175	10.47	12.00	No
		93	6415	10.21	12.00	No
		97	6435	10.61	12.00	No
		105	6475	10.58	12.00	No
		113	6515	10.52	12.00	No
		117	6535	10.43	12.00	No
		149	6695	10.18	12.00	No
		181	6855	10.46	12.00	No
		185	6875	10.66	12.00	No
		209	6995	10.15	12.00	No
		233	7115	10.74	12.00	No
	802.11ax(HE20) (SU)	2	5935	-13.18	-12.00	No
		1	5955	10.05	12.00	No
		45	6175	10.52	12.00	No
		93	6415	10.13	12.00	No
		97	6435	10.72	12.00	No
		105	6475	10.34	12.00	No
		113	6515	10.28	12.00	No
		117	6535	10.47	12.00	No
		149	6695	10.46	12.00	No
		181	6855	10.10	12.00	No
		185	6875	10.47	12.00	No
		209	6995	10.32	12.00	No
		233	7115	10.44	12.00	No
	802.11ax(HE40) (SU)	3	5965	10.34	12.00	No
		43	6165	10.51	12.00	No
		91	6405	10.32	12.00	No
		99	6445	10.76	12.00	No
		107	6485	10.56	12.00	No
		115	6525	10.75	12.00	No
		123	6565	10.48	12.00	No
		155	6725	10.51	12.00	No
		179	6845	10.42	12.00	No
		187	6885	10.76	12.00	No
		211	7005	10.52	12.00	No
		227	7085	10.09	12.00	No
	802.11ax(HE80)	7	5985	10.19	12.00	No

	(SU)	39	6145	10.37	12.00	No
		87	6385	10.06	12.00	No
		103	6465	10.64	12.00	No
		119	6545	10.43	12.00	No
		151	6705	10.05	12.00	No
		183	6865	10.40	12.00	No
		199	6945	10.06	12.00	No
		215	7025	10.36	12.00	No
	802.11ax(HE160) (SU)	15	6025	10.06	12.00	No
		47	6185	10.37	12.00	No
		79	6345	10.72	12.00	No
		111	6505	10.22	12.00	No
		143	6665	10.47	12.00	No
		175	6825	10.77	12.00	No
		207	6985	10.79	12.00	No
	802.11be(EHT20) (SU)	2	5935	-13.78	-12.00	No
		1	5955	10.56	12.00	No
		45	6175	10.20	12.00	No
		93	6415	10.77	12.00	No
		97	6435	10.13	12.00	No
		105	6475	10.55	12.00	No
		113	6515	10.47	12.00	No
		117	6535	10.19	12.00	No
		149	6695	10.54	12.00	No
		181	6855	10.50	12.00	No
		185	6875	10.57	12.00	No
		209	6995	10.12	12.00	No
		233	7115	10.73	12.00	No
	802.11be(EHT40) (SU)	3	5965	10.10	12.00	No
		43	6165	10.31	12.00	No
		91	6405	10.38	12.00	No
		99	6445	10.57	12.00	No
		107	6485	10.83	12.00	No
		115	6525	10.58	12.00	No
		123	6565	10.64	12.00	No
		155	6725	10.58	12.00	No
		179	6845	10.15	12.00	No
		187	6885	10.60	12.00	No
		211	7005	10.16	12.00	No
		227	7085	10.19	12.00	No
	802.11be(EHT80) (SU)	7	5985	10.60	12.00	No
		39	6145	10.83	12.00	No
		87	6385	10.05	12.00	No

		103	6465	10.21	12.00	No
		119	6545	10.80	12.00	No
		151	6705	10.44	12.00	No
		183	6865	10.62	12.00	No
		199	6945	10.23	12.00	No
		215	7025	10.52	12.00	No
	802.11be(EHT160) (SU)	15	6025	10.72	12.00	No
		47	6185	10.14	12.00	No
		79	6345	10.19	12.00	No
		111	6505	10.47	12.00	No
		143	6665	10.19	12.00	No
		175	6825	10.59	12.00	No
		207	6985	10.81	12.00	No
	802.11be(EHT320) (SU)	31	6105	11.58	12.00	Yes
		63	6265	11.49	12.00	Yes
		95	6425	11.41	12.00	Yes
		127	6585	11.33	11.50	Yes
		159	6745	11.16	11.50	Yes
		191	6905	11.48	11.50	Yes
	802.11be(EHT20) (RU26)	2	5935	-20.10	-18.25	No
		1	5955	8.55	10.50	No
		45	6175	8.57	10.50	No
		93	6415	8.72	10.50	No
		97	6435	8.85	10.50	No
		105	6475	9.02	10.50	No
		113	6515	8.72	10.50	No
		117	6535	8.76	10.50	No
		149	6695	9.05	10.50	No
		181	6855	9.26	10.50	No
		185	6875	8.82	10.50	No
		209	6995	8.76	10.50	No
		233	7115	8.75	10.50	No
	802.11be(EHT20) (RU52)	2	5935	-19.81	-18.25	No
		1	5955	8.71	10.50	No
		45	6175	9.00	10.50	No
		93	6415	9.05	10.50	No
		97	6435	8.82	10.50	No
		105	6475	8.76	10.50	No
		113	6515	9.14	10.50	No
		117	6535	9.01	10.50	No
		149	6695	8.71	10.50	No
		181	6855	8.75	10.50	No
		185	6875	8.58	10.50	No

		209	6995	8.61	10.50	No
		233	7115	8.91	10.50	No
	802.11be(EHT20) (RU106)	2	5935	-19.57	-18.25	No
		1	5955	8.98	10.50	No
		45	6175	9.16	10.50	No
		93	6415	9.18	10.50	No
		97	6435	8.87	10.50	No
		105	6475	8.80	10.50	No
		113	6515	8.58	10.50	No
		117	6535	9.27	10.50	No
		149	6695	8.71	10.50	No
		181	6855	8.70	10.50	No
		185	6875	8.63	10.50	No
		209	6995	8.93	10.50	No
		233	7115	9.00	10.50	No
	802.11be(EHT20) (RU242)	2	5935	-12.35	-10.75	No
		1	5955	10.70	12.00	No
		45	6175	10.51	12.00	No
		93	6415	10.11	12.00	No
		97	6435	10.77	12.00	No
		105	6475	10.70	12.00	No
		113	6515	10.66	12.00	No
		117	6535	10.38	12.00	No
		149	6695	10.32	12.00	No
		181	6855	10.35	12.00	No
		185	6875	10.81	12.00	No
		209	6995	10.77	12.00	No
		233	7115	10.36	12.00	No
	802.11be(EHT40) (RU484)	3	5965	10.70	12.00	No
		43	6165	10.12	12.00	No
		91	6405	10.38	12.00	No
		99	6445	10.81	12.00	No
		107	6485	10.51	12.00	No
		115	6525	10.36	12.00	No
		123	6565	10.23	12.00	No
		155	6725	10.64	12.00	No
		179	6845	10.66	12.00	No
		187	6885	10.58	12.00	No
		211	7005	10.33	12.00	No
		227	7085	10.18	12.00	No
	802.11be(EHT80) (RU996)	7	5985	10.64	12.00	No
		39	6145	10.25	12.00	No
		87	6385	10.43	12.00	No

		103	6465	10.08	12.00	No
		119	6545	10.74	12.00	No
		151	6705	10.35	12.00	No
		183	6865	10.32	12.00	No
		199	6945	10.47	12.00	No
		215	7025	10.46	12.00	No
	802.11be(EHT160) (RU1992)	15	6025	10.17	12.00	No
		47	6185	10.26	12.00	No
		79	6345	10.68	12.00	No
		111	6505	10.09	12.00	No
		143	6665	10.57	12.00	No
		175	6825	10.08	12.00	No
		207	6985	10.05	12.00	No
	802.11be(EHT320) (RU3984)	31	6105	10.83	12.00	No
		63	6265	10.41	12.00	No
		95	6425	10.18	12.00	No
		127	6585	10.06	12.00	No
		159	6745	10.47	12.00	No
		191	6905	10.25	12.00	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 (Main Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	2	5935	-4.84	-3.50	No
		1	5955	10.55	12.00	No
		45	6175	10.84	12.00	No
		93	6415	10.65	12.00	No
		97	6435	10.21	12.00	No
		105	6475	10.85	12.00	No
		113	6515	10.37	12.00	No
		117	6535	10.78	12.00	No
		149	6695	10.77	12.00	No
		181	6855	10.58	12.00	No
		185	6875	10.58	12.00	No
		209	6995	10.54	12.00	No
		233	7115	10.18	12.00	No
	802.11ax(HE20) (SU)	2	5935	-13.82	-12.00	No
		1	5955	10.61	12.00	No
		45	6175	10.69	12.00	No
		93	6415	10.65	12.00	No
		97	6435	10.47	12.00	No
		105	6475	10.81	12.00	No
		113	6515	10.57	12.00	No
		117	6535	10.21	12.00	No
		149	6695	10.51	12.00	No
		181	6855	10.32	12.00	No
		185	6875	10.18	12.00	No
		209	6995	10.74	12.00	No
		233	7115	10.07	12.00	No
	802.11ax(HE40) (SU)	3	5965	10.39	12.00	No
		43	6165	10.52	12.00	No
		91	6405	10.33	12.00	No
		99	6445	10.25	12.00	No
		107	6485	10.15	12.00	No
		115	6525	10.30	12.00	No
		123	6565	10.60	12.00	No
		155	6725	10.43	12.00	No
		179	6845	10.25	12.00	No
		187	6885	10.55	12.00	No
		211	7005	10.24	12.00	No
		227	7085	10.70	12.00	No
	802.11ax(HE80)	7	5985	10.33	12.00	No

	(SU)	39	6145	10.07	12.00	No
		87	6385	10.35	12.00	No
		103	6465	10.82	12.00	No
		119	6545	10.13	12.00	No
		151	6705	10.36	12.00	No
		183	6865	10.12	12.00	No
		199	6945	10.41	12.00	No
		215	7025	10.20	12.00	No
	802.11ax(HE160) (SU)	15	6025	10.09	12.00	No
		47	6185	10.10	12.00	No
		79	6345	10.09	12.00	No
		111	6505	10.83	12.00	No
		143	6665	10.71	12.00	No
		175	6825	10.53	12.00	No
		207	6985	10.80	12.00	No
	802.11be(EHT20) (SU)	2	5935	-13.86	-12.00	No
		1	5955	10.36	12.00	No
		45	6175	10.07	12.00	No
		93	6415	10.52	12.00	No
		97	6435	10.19	12.00	No
		105	6475	10.74	12.00	No
		113	6515	10.65	12.00	No
		117	6535	10.49	12.00	No
		149	6695	10.84	12.00	No
		181	6855	10.39	12.00	No
		185	6875	10.13	12.00	No
		209	6995	10.55	12.00	No
		233	7115	10.47	12.00	No
	802.11be(EHT40) (SU)	3	5965	10.09	12.00	No
		43	6165	10.63	12.00	No
		91	6405	10.73	12.00	No
		99	6445	10.63	12.00	No
		107	6485	10.26	12.00	No
		115	6525	10.38	12.00	No
		123	6565	10.84	12.00	No
		155	6725	10.14	12.00	No
		179	6845	10.49	12.00	No
		187	6885	10.08	12.00	No
		211	7005	10.31	12.00	No
		227	7085	10.16	12.00	No
	802.11be(EHT80) (SU)	7	5985	10.15	12.00	No
		39	6145	10.31	12.00	No
		87	6385	10.81	12.00	No

		103	6465	10.72	12.00	No
		119	6545	10.60	12.00	No
		151	6705	10.77	12.00	No
		183	6865	10.19	12.00	No
		199	6945	10.53	12.00	No
		215	7025	10.15	12.00	No
	802.11be(EHT160) (SU)	15	6025	10.60	12.00	No
		47	6185	10.63	12.00	No
		79	6345	10.27	12.00	No
		111	6505	10.29	12.00	No
		143	6665	10.65	12.00	No
		175	6825	10.32	12.00	No
		207	6985	10.35	12.00	No
	802.11be(EHT320) (SU)	31	6105	11.67	12.00	Yes
		63	6265	11.54	12.00	Yes
		95	6425	11.42	12.00	Yes
		127	6585	10.76	11.50	Yes
		159	6745	10.70	11.50	Yes
		191	6905	10.71	11.50	Yes
	802.11be(EHT20) (RU26)	2	5935	-19.49	-18.25	No
		1	5955	8.88	10.50	No
		45	6175	8.85	10.50	No
		93	6415	8.63	10.50	No
		97	6435	9.27	10.50	No
		105	6475	9.06	10.50	No
		113	6515	8.82	10.50	No
		117	6535	9.29	10.50	No
		149	6695	8.77	10.50	No
		181	6855	8.68	10.50	No
		185	6875	8.98	10.50	No
		209	6995	8.81	10.50	No
		233	7115	8.64	10.50	No
	802.11be(EHT20) (RU52)	2	5935	-20.20	-18.25	No
		1	5955	8.77	10.50	No
		45	6175	8.71	10.50	No
		93	6415	8.69	10.50	No
		97	6435	8.70	10.50	No
		105	6475	8.81	10.50	No
		113	6515	9.28	10.50	No
		117	6535	8.97	10.50	No
		149	6695	8.96	10.50	No
		181	6855	9.13	10.50	No
		185	6875	9.35	10.50	No

		209	6995	9.14	10.50	No
		233	7115	9.04	10.50	No
	802.11be(EHT20) (RU106)	2	5935	-19.99	-18.25	No
		1	5955	8.90	10.50	No
		45	6175	9.34	10.50	No
		93	6415	8.93	10.50	No
		97	6435	8.90	10.50	No
		105	6475	8.88	10.50	No
		113	6515	9.07	10.50	No
		117	6535	9.00	10.50	No
		149	6695	9.14	10.50	No
		181	6855	8.92	10.50	No
		185	6875	8.57	10.50	No
		209	6995	9.05	10.50	No
		233	7115	9.33	10.50	No
	802.11be(EHT20) (RU242)	2	5935	-11.90	-10.75	No
		1	5955	10.07	12.00	No
		45	6175	10.74	12.00	No
		93	6415	10.12	12.00	No
		97	6435	10.78	12.00	No
		105	6475	10.31	12.00	No
		113	6515	10.52	12.00	No
		117	6535	10.51	12.00	No
		149	6695	10.20	12.00	No
		181	6855	10.84	12.00	No
		185	6875	10.72	12.00	No
		209	6995	10.51	12.00	No
		233	7115	10.73	12.00	No
	802.11be(EHT40) (RU484)	3	5965	10.70	12.00	No
		43	6165	10.30	12.00	No
		91	6405	10.06	12.00	No
		99	6445	10.09	12.00	No
		107	6485	10.54	12.00	No
		115	6525	10.51	12.00	No
		123	6565	10.66	12.00	No
		155	6725	10.79	12.00	No
		179	6845	10.58	12.00	No
		187	6885	10.77	12.00	No
		211	7005	10.66	12.00	No
		227	7085	10.44	12.00	No
	802.11be(EHT80) (RU996)	7	5985	10.32	12.00	No
		39	6145	10.30	12.00	No
		87	6385	10.61	12.00	No

		103	6465	10.48	12.00	No
		119	6545	10.30	12.00	No
		151	6705	10.31	12.00	No
		183	6865	10.72	12.00	No
		199	6945	10.79	12.00	No
		215	7025	10.61	12.00	No
	802.11be(EHT160) (RU1992)	15	6025	10.37	12.00	No
		47	6185	10.55	12.00	No
		79	6345	10.79	12.00	No
		111	6505	10.85	12.00	No
		143	6665	10.07	12.00	No
		175	6825	10.49	12.00	No
		207	6985	10.32	12.00	No
	802.11be(EHT320) (RU3984)	31	6105	10.67	12.00	No
		63	6265	10.28	12.00	No
		95	6425	10.85	12.00	No
		127	6585	10.16	12.00	No
		159	6745	10.23	12.00	No
		191	6905	10.10	12.00	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.

8.1.12 6G WIFI (MIMO) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	2	5935	-5.00	-3.50	No
		1	5955	10.19	12.00	No
		45	6175	10.59	12.00	No
		93	6415	10.59	12.00	No
		97	6435	10.67	12.00	No
		105	6475	10.45	12.00	No
		113	6515	10.31	12.00	No
		117	6535	10.63	12.00	No
		149	6695	10.71	12.00	No
		181	6855	10.66	12.00	No
		185	6875	10.68	12.00	No
		209	6995	10.45	12.00	No
		233	7115	10.70	12.00	No
	802.11ax(HE20) (SU)	2	5935	-13.57	-12.00	No
		1	5955	10.07	12.00	No
		45	6175	10.31	12.00	No
		93	6415	10.09	12.00	No
		97	6435	10.78	12.00	No
		105	6475	10.08	12.00	No
		113	6515	10.71	12.00	No
		117	6535	10.66	12.00	No
		149	6695	10.22	12.00	No
		181	6855	10.38	12.00	No
		185	6875	10.40	12.00	No
		209	6995	10.17	12.00	No
		233	7115	10.33	12.00	No
	802.11ax(HE40) (SU)	3	5965	10.59	12.00	No
		43	6165	10.06	12.00	No
		91	6405	10.12	12.00	No
		99	6445	10.42	12.00	No
		107	6485	10.42	12.00	No
		115	6525	10.36	12.00	No
		123	6565	10.53	12.00	No
		155	6725	10.41	12.00	No
		179	6845	10.19	12.00	No
		187	6885	10.62	12.00	No
		211	7005	10.31	12.00	No
		227	7085	10.71	12.00	No
	802.11ax(HE80)	7	5985	10.19	12.00	No

	(SU)	39	6145	10.65	12.00	No
		87	6385	10.65	12.00	No
		103	6465	10.16	12.00	No
		119	6545	10.23	12.00	No
		151	6705	10.08	12.00	No
		183	6865	10.68	12.00	No
		199	6945	10.80	12.00	No
		215	7025	10.78	12.00	No
	802.11ax(HE160) (SU)	15	6025	10.27	12.00	No
		47	6185	10.20	12.00	No
		79	6345	10.77	12.00	No
		111	6505	10.84	12.00	No
		143	6665	10.66	12.00	No
		175	6825	10.13	12.00	No
		207	6985	10.58	12.00	No
	802.11be(EHT20) (SU)	2	5935	-13.67	-12.00	No
		1	5955	10.55	12.00	No
		45	6175	10.78	12.00	No
		93	6415	10.24	12.00	No
		97	6435	10.57	12.00	No
		105	6475	10.51	12.00	No
		113	6515	10.50	12.00	No
		117	6535	10.34	12.00	No
		149	6695	10.44	12.00	No
		181	6855	10.62	12.00	No
		185	6875	10.05	12.00	No
		209	6995	10.17	12.00	No
		233	7115	10.14	12.00	No
	802.11be(EHT40) (SU)	3	5965	10.05	12.00	No
		43	6165	10.71	12.00	No
		91	6405	10.34	12.00	No
		99	6445	10.47	12.00	No
		107	6485	10.08	12.00	No
		115	6525	10.59	12.00	No
		123	6565	10.55	12.00	No
		155	6725	10.16	12.00	No
		179	6845	10.59	12.00	No
		187	6885	10.46	12.00	No
		211	7005	10.20	12.00	No
		227	7085	10.66	12.00	No
	802.11be(EHT80) (SU)	7	5985	10.45	12.00	No
		39	6145	10.58	12.00	No
		87	6385	10.18	12.00	No

		103	6465	10.72	12.00	No
		119	6545	10.21	12.00	No
		151	6705	10.51	12.00	No
		183	6865	10.59	12.00	No
		199	6945	10.14	12.00	No
		215	7025	10.26	12.00	No
	802.11be(EHT160) (SU)	15	6025	10.09	12.00	No
		47	6185	10.69	12.00	No
		79	6345	10.52	12.00	No
		111	6505	10.66	12.00	No
		143	6665	10.05	12.00	No
		175	6825	10.27	12.00	No
		207	6985	10.76	12.00	No
	802.11be(EHT320) (SU)	31	6105	10.54	12.00	No
		63	6265	10.33	12.00	No
		95	6425	10.27	12.00	No
		127	6585	10.41	11.50	No
		159	6745	10.14	11.50	No
		191	6905	10.64	11.50	No
	802.11be(EHT20) (RU26)	2	5935	-19.59	-18.25	No
		1	5955	8.88	10.50	No
		45	6175	8.74	10.50	No
		93	6415	8.56	10.50	No
		97	6435	8.59	10.50	No
		105	6475	9.26	10.50	No
		113	6515	8.74	10.50	No
		117	6535	8.93	10.50	No
		149	6695	8.91	10.50	No
		181	6855	9.18	10.50	No
		185	6875	8.84	10.50	No
		209	6995	9.27	10.50	No
		233	7115	9.28	10.50	No
	802.11be(EHT20) (RU52)	2	5935	-20.05	-18.25	No
		1	5955	9.15	10.50	No
		45	6175	8.55	10.50	No
		93	6415	8.98	10.50	No
		97	6435	8.61	10.50	No
		105	6475	9.34	10.50	No
		113	6515	8.56	10.50	No
		117	6535	8.95	10.50	No
		149	6695	8.63	10.50	No
		181	6855	8.93	10.50	No
		185	6875	8.86	10.50	No

		209	6995	8.98	10.50	No
		233	7115	8.68	10.50	No
	802.11be(EHT20) (RU106)	2	5935	-19.52	-18.25	No
		1	5955	8.90	10.50	No
		45	6175	9.13	10.50	No
		93	6415	9.32	10.50	No
		97	6435	9.25	10.50	No
		105	6475	8.81	10.50	No
		113	6515	8.71	10.50	No
		117	6535	8.64	10.50	No
		149	6695	9.07	10.50	No
		181	6855	8.78	10.50	No
		185	6875	9.34	10.50	No
		209	6995	8.82	10.50	No
		233	7115	8.63	10.50	No
	802.11be(EHT20) (RU242)	2	5935	-12.13	-10.75	No
		1	5955	10.51	12.00	No
		45	6175	10.58	12.00	No
		93	6415	10.60	12.00	No
		97	6435	10.57	12.00	No
		105	6475	10.28	12.00	No
		113	6515	10.83	12.00	No
		117	6535	10.61	12.00	No
		149	6695	10.34	12.00	No
		181	6855	10.70	12.00	No
		185	6875	10.33	12.00	No
		209	6995	10.34	12.00	No
		233	7115	10.65	12.00	No
	802.11be(EHT40) (RU484)	3	5965	10.19	12.00	No
		43	6165	10.66	12.00	No
		91	6405	10.48	12.00	No
		99	6445	10.18	12.00	No
		107	6485	10.75	12.00	No
		115	6525	10.22	12.00	No
		123	6565	10.71	12.00	No
		155	6725	10.18	12.00	No
		179	6845	10.32	12.00	No
		187	6885	10.75	12.00	No
		211	7005	10.72	12.00	No
		227	7085	10.80	12.00	No
	802.11be(EHT80) (RU996)	7	5985	10.05	12.00	No
		39	6145	10.46	12.00	No
		87	6385	10.49	12.00	No

		103	6465	10.30	12.00	No
		119	6545	10.09	12.00	No
		151	6705	10.60	12.00	No
		183	6865	10.39	12.00	No
		199	6945	10.49	12.00	No
		215	7025	10.11	12.00	No
	802.11be(EHT160) (RU1992)	15	6025	10.74	12.00	No
		47	6185	10.34	12.00	No
		79	6345	10.32	12.00	No
		111	6505	10.69	12.00	No
		143	6665	10.17	12.00	No
		175	6825	10.82	12.00	No
		207	6985	10.30	12.00	No
	802.11be(EHT320) (RU3984)	31	6105	10.29	12.00	No
		63	6265	10.28	12.00	No
		95	6425	10.07	12.00	No
		127	6585	10.50	12.00	No
		159	6745	10.77	12.00	No
		191	6905	10.61	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, or the SPLSR value ≤0.04 the 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)	7.57	7.72	7.85	7.23	7.54	7.40
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)	7.12	7.03	7.25	/	/	/
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)	7.60	7.38	7.43	7.36	7.29	7.11
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.						

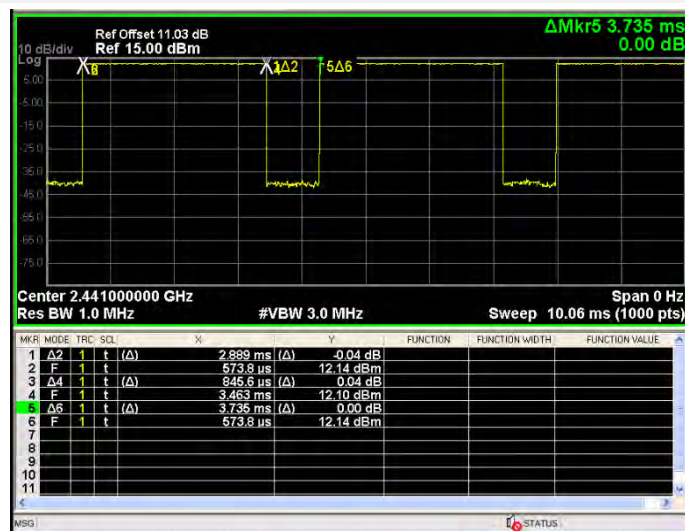
8.2.2 Bluetooth (Main Antenna)

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	7.26	7.33	7.17	7.17	7.30	7.63
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)	7.32	7.28	7.28	/	/	/
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)	7.82	7.33	7.15	7.20	7.27	7.38
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.						

The Bluetooth duty cycle is 77.35% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to 83.3% for Bluetooth reported SAR calculation.

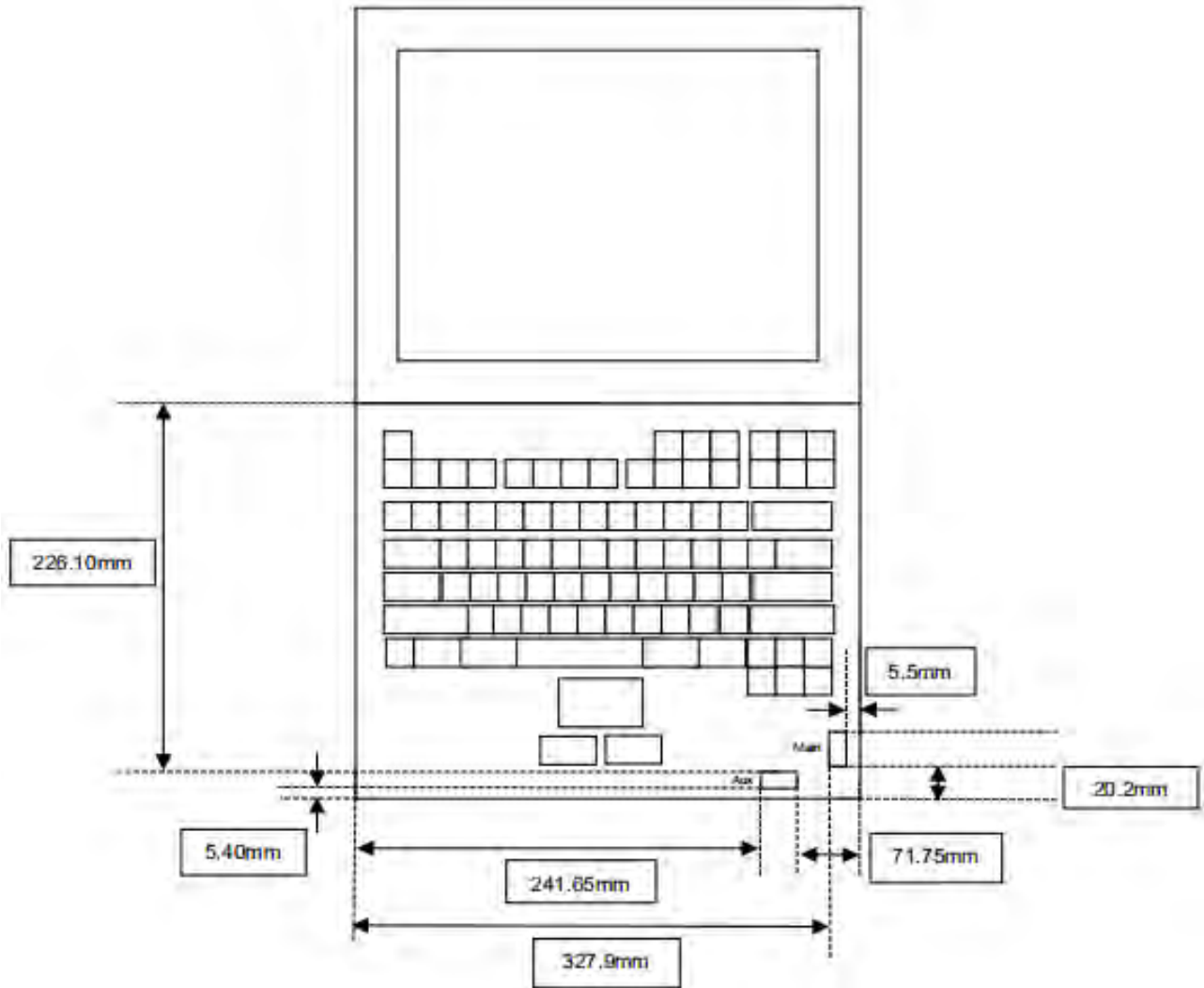
Duty Cycle

Bluetooth-GFSK



9 TEST EXCLUSION CONSIDERATION

9.1 Antenna Location Sketch





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

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
Front Edge	Body
Keyboard Side	Limbs
Left Edge	Limbs
Right Edge	Limbs

Aux. Antenna Body RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
	Calculated Frequency (MHz)	2480	2462	5320	5710	5825	5925	6000
Bottom Side	Distance to User (mm)	6.94						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	5.07	5.10	2.91	2.76	2.72	2.69	2.66
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front Edge	Distance to User (mm)	5.4						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	3.15	3.16	1.73	1.64	1.61	1.59	1.57
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Main Antenna Body RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
	Calculated Frequency (MHz)	2480	2462	5320	5710	5825	5925	6000
Bottom Side	Distance to User (mm)	6.94						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	5.07	5.10	2.91	2.76	2.72	2.69	2.66
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front Edge	Distance to User (mm)	20.2						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	38.83	38.97	26.55	25.64	25.38	25.17	25.01
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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	U-NII-5/6/7/8
Calculated Frequency (MHz)		2480	2462	5320	5710	5825	5925	6000
Keyboard Side	Distance to User (mm)	5						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35	1.34
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Left Edge	Distance to User (mm)	241.65						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	4387.46	4386.15	4527.20	4540.37	4544.09	4547.27	4549.62
	SAR Test Required	No	No	No	No	No	No	No
Right Edge	Distance to User (mm)	71.75						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	434.20	434.91	366.36	360.63	359.04	357.68	356.68
	SAR Test Required	No	No	No	No	No	No	No

Main 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	U-NII-5/6/7/8
Calculated Frequency (MHz)		2480	2462	5320	5710	5825	5925	6000
Keyboard Side	Distance to User (mm)	5						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	2.72	2.73	1.47	1.39	1.37	1.35	1.34
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Left Edge	Distance to User (mm)	327.9						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	7846.99	7840.85	8517.01	8581.94	8600.33	8616.06	8627.70
	SAR Test Required	No	No	No	No	No	No	No
Right Edge	Distance to User (mm)	5.5						
	Max. Peak Power (dBm)	8.00	15.50	11.50	12.50	12.50	12.50	12.00
	Max. Peak Power (mW)	6.31	35.48	14.13	17.78	17.78	17.78	15.85
	Exclusion Threshold (mW)	3.26	3.28	1.80	1.70	1.67	1.65	1.64
	SAR Test Required	Yes	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 P_{th} (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.

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 WIFI 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 WIFI/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

Mode	Antenna Manufacturer	Antenna	Test State	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	ZTX	Aux.	Laptop	Bottom Side	0	78	2480	-0.02	0.136	7.85	8.00	1.035	77.35	1.077	0.152	1#
	ZTX	Aux.	Laptop	Bottom Side	0	0	2402	0.05	0.112	7.57	8.00	1.104	77.35	1.077	0.133	/
	ZTX	Aux.	Laptop	Bottom Side	0	39	2441	0.09	0.131	7.72	8.00	1.067	77.35	1.077	0.151	/
	ICT	Aux.	Laptop	Bottom Side	0	78	2480	0.04	0.107	7.85	8.00	1.035	77.35	1.077	0.119	/
	ZTX	Aux.	Laptop	Front Edge	0	78	2480	0.02	0.062	7.85	8.00	1.035	77.35	1.077	0.069	/
	ICT	Aux.	Laptop	Front Edge	0	78	2480	-0.07	0.056	7.85	8.00	1.035	77.35	1.077	0.062	/
	ZTX	Main	Laptop	Bottom Side	0	39	2441	-0.03	0.094	7.33	8.00	1.167	77.35	1.077	0.118	/
	ICT	Main	Laptop	Bottom Side	0	39	2441	-0.06	0.087	7.33	8.00	1.167	77.35	1.077	0.109	/
	ZTX	Main	Laptop	Front Edge	0	39	2441	0.12	0.023	7.33	8.00	1.167	77.35	1.077	0.029	/
	ICT	Main	Laptop	Front Edge	0	39	2441	0.00	0.021	7.33	8.00	1.167	77.35	1.077	0.026	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Mode	Antenna Manufacturer	Antenna	Test State	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	ZTX	Aux.	Laptop	Keyboard Side	0	78	2480	0.11	0.084	7.85	8.00	1.035	77.35	1.077	0.094	/
	ZTX	Aux.	Laptop	Keyboard Side	0	0	2402	-0.08	0.089	7.57	8.00	1.104	77.35	1.077	0.106	/
	ZTX	Aux.	Laptop	Keyboard Side	0	39	2441	-0.04	0.095	7.72	8.00	1.067	77.35	1.077	0.109	14#
	ICT	Aux.	Laptop	Keyboard Side	0	78	2480	0.02	0.084	7.85	8.00	1.035	77.35	1.077	0.094	/
	ZTX	Main	Laptop	Keyboard Side	0	39	2441	-0.02	0.055	7.33	8.00	1.167	77.35	1.077	0.069	/
	ICT	Main	Laptop	Keyboard Side	0	39	2441	0.18	0.050	7.33	8.00	1.167	77.35	1.077	0.063	/
	ZTX	Main	Laptop	Right Edge	0	39	2441	0.13	0.012	7.33	8.00	1.167	77.35	1.077	0.015	/
	ICT	Main	Laptop	Right Edge	0	39	2441	0.09	0.010	7.33	8.00	1.167	77.35	1.077	0.013	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.2WIFI 2.4GHz

Mode	Antenna Manufacturer	Antenna	Test State	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 (No DBS)	ZTX	Aux.	Laptop	Bottom Side	0	6	2437	0.02	0.770	14.95	15.50	1.135	97.49	1.026	0.897	2#
	ZTX	Aux.	Laptop	Bottom Side	0	1	2412	0.07	0.732	14.78	15.50	1.180	97.49	1.026	0.886	/
	ZTX	Aux.	Laptop	Bottom Side	0	11	2462	-0.19	0.723	14.76	15.50	1.186	97.49	1.026	0.880	/
	ICT	Aux.	Laptop	Bottom Side	0	6	2437	0.06	0.568	14.95	15.50	1.135	97.49	1.026	0.661	/
	ZTX	Aux.	Laptop	Front Edge	0	6	2437	-0.17	0.319	14.95	15.50	1.135	97.49	1.026	0.371	/
	ICT	Aux.	Laptop	Front Edge	0	6	2437	0.15	0.298	14.95	15.50	1.135	97.49	1.026	0.347	/
	ZTX	Main	Laptop	Bottom Side	0	6	2437	-0.01	0.461	15.18	15.50	1.076	97.49	1.026	0.509	/
	ZTX	Main	Laptop	Bottom Side	0	1	2412	0.04	0.499	15.33	15.50	1.040	97.49	1.026	0.532	/
	ZTX	Main	Laptop	Bottom Side	0	11	2462	-0.05	0.511	15.01	15.50	1.119	97.49	1.026	0.587	3#
	ICT	Main	Laptop	Bottom Side	0	1	2412	-0.13	0.452	15.33	15.50	1.040	97.49	1.026	0.482	/
	ZTX	Main	Laptop	Front Edge	0	1	2412	-0.05	0.052	15.33	15.50	1.040	97.49	1.026	0.055	/
	ICT	Main	Laptop	Front Edge	0	1	2412	-0.15	0.059	15.33	15.50	1.040	97.49	1.026	0.063	/
802.11b (DBS)	ZTX	Aux.	Laptop	Bottom Side	0	6	2437	0.02	0.621	14.23	14.50	1.064	97.49	1.026	0.678	/
	ZTX	Aux.	Laptop	Bottom Side	0	1	2412	0.04	0.572	14.11	14.50	1.094	97.49	1.026	0.642	/
	ZTX	Aux.	Laptop	Bottom Side	0	11	2462	0.03	0.561	14.18	14.50	1.076	97.49	1.026	0.619	/
	ICT	Aux.	Laptop	Bottom Side	0	6	2437	-0.04	0.452	14.23	14.50	1.064	97.49	1.026	0.493	/
	ZTX	Aux.	Laptop	Front Edge	0	6	2437	0.16	0.241	14.23	14.50	1.064	97.49	1.026	0.263	/
	ICT	Aux.	Laptop	Front Edge	0	6	2437	0.05	0.229	14.23	14.50	1.064	97.49	1.026	0.250	/
	ZTX	Main	Laptop	Bottom Side	0	6	2437	0.02	0.354	13.66	14.50	1.213	97.49	1.026	0.441	/
	ZTX	Main	Laptop	Bottom Side	0	1	2412	-0.03	0.388	14.28	14.50	1.052	97.49	1.026	0.419	/
	ZTX	Main	Laptop	Bottom Side	0	11	2462	0.04	0.402	13.62	14.50	1.225	97.49	1.026	0.505	/
	ICT	Main	Laptop	Bottom Side	0	1	2412	0.05	0.354	14.28	14.50	1.052	97.49	1.026	0.382	/
	ZTX	Main	Laptop	Front Edge	0	1	2412	-0.09	0.038	14.28	14.50	1.052	97.49	1.026	0.041	/
	ICT	Main	Laptop	Front Edge	0	1	2412	-0.14	0.046	14.28	14.50	1.052	97.49	1.026	0.050	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Mode	Antenna Manufacturer	Antenna	Test State	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 (No DBS)	ZTX	Aux.	Laptop	Keyboard Side	0	6	2437	-0.01	0.425	14.95	15.50	1.135	97.49	1.026	0.495	/
	ZTX	Aux.	Laptop	Keyboard Side	0	1	2412	0.07	0.435	14.78	15.50	1.180	97.49	1.026	0.527	/
	ZTX	Aux.	Laptop	Keyboard Side	0	11	2462	-0.06	0.456	14.76	15.50	1.186	97.49	1.026	0.555	15#
	ICT	Aux.	Laptop	Keyboard Side	0	6	2437	0.15	0.424	14.95	15.50	1.135	97.49	1.026	0.494	/
	ZTX	Main	Laptop	Keyboard Side	0	6	2437	0.12	0.509	15.18	15.50	1.076	97.49	1.026	0.562	/
	ZTX	Main	Laptop	Keyboard Side	0	1	2412	0.11	0.509	15.33	15.50	1.040	97.49	1.026	0.543	/
	ZTX	Main	Laptop	Keyboard Side	0	11	2462	-0.03	0.514	15.01	15.50	1.119	97.49	1.026	0.590	16#
	ICT	Main	Laptop	Keyboard Side	0	1	2412	-0.08	0.493	15.33	15.50	1.040	97.49	1.026	0.526	/
	ZTX	Main	Laptop	Right Edge	0	1	2412	0.02	0.105	15.33	15.50	1.040	97.49	1.026	0.112	/
	ICT	Main	Laptop	Right Edge	0	1	2412	0.01	0.096	15.33	15.50	1.040	97.49	1.026	0.102	/
802.11b (DBS)	ZTX	Aux.	Laptop	Keyboard Side	0	6	2437	-0.06	0.312	14.23	14.50	1.064	97.49	1.026	0.341	/
	ZTX	Aux.	Laptop	Keyboard Side	0	1	2412	-0.15	0.339	14.11	14.50	1.094	97.49	1.026	0.381	/
	ZTX	Aux.	Laptop	Keyboard Side	0	11	2462	0.10	0.352	14.18	14.50	1.076	97.49	1.026	0.389	/
	ICT	Aux.	Laptop	Keyboard Side	0	6	2437	-0.03	0.324	14.23	14.50	1.064	97.49	1.026	0.354	/
	ZTX	Main	Laptop	Keyboard Side	0	6	2437	0.08	0.404	13.66	14.50	1.213	97.49	1.026	0.503	/
	ZTX	Main	Laptop	Keyboard Side	0	1	2412	0.03	0.389	14.28	14.50	1.052	97.49	1.026	0.420	/
	ZTX	Main	Laptop	Keyboard Side	0	11	2462	-0.19	0.419	13.62	14.50	1.225	97.49	1.026	0.527	/
	ICT	Main	Laptop	Keyboard Side	0	1	2412	-0.05	0.385	14.28	14.50	1.052	97.49	1.026	0.416	/
	ZTX	Main	Laptop	Right Edge	0	1	2412	0.16	0.076	14.28	14.50	1.052	97.49	1.026	0.082	/
	ICT	Main	Laptop	Right Edge	0	1	2412	-0.05	0.069	14.28	14.50	1.052	97.49	1.026	0.074	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.3WIFI 5GHz

Fre. Band	Mode	Antenna Manufacturer	Antenna	Test State	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																	
5.3G	802.11 ac80	ZTX	Aux.	Laptop	Bottom Side	0	58	5290	-0.13	0.430	11.09	11.50	1.099	98.11	1.019	0.482	/
		ICT	Aux.	Laptop	Bottom Side	0	58	5290	-0.16	0.312	11.09	11.50	1.099	98.11	1.019	0.349	/
		ZTX	Aux.	Laptop	Front Edge	0	58	5290	-0.07	0.877	11.09	11.50	1.099	98.11	1.019	0.982	4#
		ICT	Aux.	Laptop	Front Edge	0	58	5290	0.00	0.699	11.09	11.50	1.099	98.11	1.019	0.783	/
		ZTX	Main	Laptop	Bottom Side	0	58	5290	0.12	0.412	11.21	11.50	1.069	98.11	1.019	0.449	/
		ICT	Main	Laptop	Bottom Side	0	58	5290	-0.14	0.443	11.21	11.50	1.069	98.11	1.019	0.483	5#
		ZTX	Main	Laptop	Front Edge	0	58	5290	0.12	0.042	11.21	11.50	1.069	98.11	1.019	0.046	/
		ICT	Main	Laptop	Front Edge	0	58	5290	0.07	0.038	11.21	11.50	1.069	98.11	1.019	0.041	/
5.6G	802.11 ac80	ZTX	Aux.	Laptop	Bottom Side	0	138	5690	0.15	0.541	12.41	12.50	1.021	98.11	1.019	0.563	/
		ICT	Aux.	Laptop	Bottom Side	0	138	5690	0.14	0.532	12.41	12.50	1.021	98.11	1.019	0.553	/
		ZTX	Aux.	Laptop	Front Edge	0	138	5690	-0.11	1.070	12.41	12.50	1.021	98.11	1.019	1.113	6#
		ZTX	Aux.	Laptop	Front Edge	0	106	5530	-0.03	0.889	12.36	12.50	1.033	98.11	1.019	0.936	/
		ZTX	Aux.	Laptop	Front Edge	0	122	5610	-0.01	0.911	12.12	12.50	1.091	98.11	1.019	1.013	/
		ICT	Aux.	Laptop	Front Edge	0	138	5690	0.18	0.809	12.10	12.50	1.096	98.11	1.019	0.904	/
		ZTX	Main	Laptop	Bottom Side	0	138	5690	-0.17	0.482	12.34	12.50	1.038	98.11	1.019	0.510	7#
		ZTX	Main	Laptop	Bottom Side	0	106	5530	-0.16	0.412	12.30	12.50	1.047	98.11	1.019	0.440	/
		ZTX	Main	Laptop	Bottom Side	0	122	5610	-0.14	0.431	12.31	12.50	1.045	98.11	1.019	0.459	/
		ICT	Main	Laptop	Bottom Side	0	138	5690	0.10	0.452	12.34	12.50	1.038	98.11	1.019	0.478	/
		ZTX	Main	Laptop	Front Edge	0	138	5690	0.11	0.023	12.34	12.50	1.038	98.11	1.019	0.024	/
		ICT	Main	Laptop	Front Edge	0	138	5690	-0.05	0.028	12.34	12.50	1.038	98.11	1.019	0.030	/
5.8G	802.11 ac80	ZTX	Aux.	Laptop	Bottom Side	0	155	5775	-0.08	0.446	11.92	12.50	1.143	98.11	1.019	0.519	/
		ICT	Aux.	Laptop	Bottom Side	0	155	5775	0.01	0.452	11.92	12.50	1.143	98.11	1.019	0.526	/
		ZTX	Aux.	Laptop	Front Edge	0	155	5775	-0.04	0.751	11.92	12.50	1.143	98.11	1.019	0.875	/
		ZTX	Aux.	Laptop	Front Edge	0	155	5775	-0.06	0.827	11.92	12.50	1.143	98.11	1.019	0.963	8#
		ZTX	Main	Laptop	Bottom Side	0	155	5775	-0.06	0.415	11.53	12.50	1.250	98.11	1.019	0.529	9#
		ICT	Main	Laptop	Bottom Side	0	155	5775	0.17	0.389	11.53	12.50	1.250	98.11	1.019	0.495	/
		ZTX	Main	Laptop	Front Edge	0	155	5775	0.11	0.042	11.53	12.50	1.250	98.11	1.019	0.053	/
		ICT	Main	Laptop	Front Edge	0	155	5775	0.01	0.046	11.53	12.50	1.250	98.11	1.019	0.059	/
5.9G	802.11 ac80	ZTX	Aux.	Laptop	Bottom Side	0	171	5855	-0.01	0.456	12.15	12.50	1.084	98.11	1.019	0.504	/
		ICT	Aux.	Laptop	Bottom Side	0	171	5855	0.16	0.442	12.15	12.50	1.084	98.11	1.019	0.488	/
		ZTX	Aux.	Laptop	Front Edge	0	171	5855	-0.08	0.791	12.15	12.50	1.084	98.11	1.019	0.874	10#
		ICT	Aux.	Laptop	Front Edge	0	171	5855	-0.13	0.685	12.15	12.50	1.084	98.11	1.019	0.757	/
		ZTX	Main	Laptop	Bottom Side	0	171	5855	-0.18	0.526	12.41	12.50	1.021	98.11	1.019	0.547	11#

		ICT	Main	Laptop	Bottom Side	0	171	5855	-0.07	0.486	12.41	12.50	1.021	98.11	1.019	0.506	/
		ZTX	Main	Laptop	Front Edge	0	171	5855	0.03	0.028	12.41	12.50	1.021	98.11	1.019	0.029	/
		ICT	Main	Laptop	Front Edge	0	171	5855	-0.04	0.023	12.41	12.50	1.021	98.11	1.019	0.024	/

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

Fre. Band	Mode	Antenna Manufacturer	Antenna	Test State	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																	
5.3G	802.11 ac80	ZTX	Aux.	Laptop	Keyboard Side	0	58	5290	0.09	0.186	11.09	11.50	1.099	98.11	1.019	0.208	/
		ICT	Aux.	Laptop	Keyboard Side	0	58	5290	-0.03	0.208	11.09	11.50	1.099	98.11	1.019	0.233	17#
		ZTX	Main	Laptop	Keyboard Side	0	58	5290	-0.12	0.277	11.21	11.50	1.069	98.11	1.019	0.302	/
		ICT	Main	Laptop	Keyboard Side	0	58	5290	-0.05	0.280	11.21	11.50	1.069	98.11	1.019	0.305	/
		ZTX	Main	Laptop	Right Edge	0	58	5290	-0.13	0.320	11.21	11.50	1.069	98.11	1.019	0.349	18#
		ICT	Main	Laptop	Right Edge	0	58	5290	0.00	0.286	11.21	11.50	1.069	98.11	1.019	0.312	/
5.6G	802.11 ac80	ZTX	Aux.	Laptop	Keyboard Side	0	138	5690	0.03	0.255	12.41	12.50	1.021	98.11	1.019	0.265	19#
		ZTX	Aux.	Laptop	Keyboard Side	0	106	5530	0.19	0.234	12.36	12.50	1.033	98.11	1.019	0.246	/
		ZTX	Aux.	Laptop	Keyboard Side	0	122	5610	-0.02	0.225	12.12	12.50	1.091	98.11	1.019	0.250	/
		ICT	Aux.	Laptop	Keyboard Side	0	138	5690	-0.01	0.203	12.41	12.50	1.021	98.11	1.019	0.211	/
		ZTX	Main	Laptop	Keyboard Side	0	138	5690	-0.09	0.304	12.34	12.50	1.038	98.11	1.019	0.322	/
		ZTX	Main	Laptop	Keyboard Side	0	106	5530	-0.17	0.286	12.30	12.50	1.047	98.11	1.019	0.305	/
		ZTX	Main	Laptop	Keyboard Side	0	122	5610	-0.03	0.328	12.31	12.50	1.045	98.11	1.019	0.349	20#
		ICT	Main	Laptop	Keyboard Side	0	138	5690	-0.05	0.277	12.34	12.50	1.038	98.11	1.019	0.293	/
		ZTX	Main	Laptop	Right Edge	0	138	5690	-0.03	0.264	12.34	12.50	1.038	98.11	1.019	0.279	/
		ICT	Main	Laptop	Right Edge	0	138	5690	-0.16	0.255	12.34	12.50	1.038	98.11	1.019	0.270	/
5.8G	802.11 ac80	ZTX	Aux.	Laptop	Keyboard Side	0	155	5775	-0.14	0.199	11.92	12.50	1.143	98.11	1.019	0.232	21#
		ICT	Aux.	Laptop	Keyboard Side	0	155	5775	0.07	0.174	11.92	12.50	1.143	98.11	1.019	0.203	/
		ZTX	Main	Laptop	Keyboard Side	0	155	5775	0.12	0.211	11.53	12.50	1.250	98.11	1.019	0.269	/
		ICT	Main	Laptop	Keyboard Side	0	155	5775	-0.04	0.226	11.53	12.50	1.250	98.11	1.019	0.288	22#
		ZTX	Main	Laptop	Right Edge	0	155	5775	0.06	0.191	11.53	12.50	1.250	98.11	1.019	0.243	/
		ICT	Main	Laptop	Right Edge	0	155	5775	0.05	0.182	11.53	12.50	1.250	98.11	1.019	0.232	/
5.9G	802.11 ac80	ZTX	Aux.	Laptop	Keyboard Side	0	171	5855	0.02	0.196	12.15	12.50	1.084	98.11	1.019	0.217	23#
		ICT	Aux.	Laptop	Keyboard Side	0	171	5855	0.06	0.162	12.15	12.50	1.084	98.11	1.019	0.179	/
		ZTX	Main	Laptop	Keyboard Side	0	171	5855	0.01	0.306	12.41	12.50	1.021	98.11	1.019	0.318	24#
		ICT	Main	Laptop	Keyboard Side	0	171	5855	0.06	0.276	12.41	12.50	1.021	98.11	1.019	0.287	/
		ZTX	Main	Laptop	Right Edge	0	171	5855	-0.10	0.254	12.41	12.50	1.021	98.11	1.019	0.264	/
		ICT	Main	Laptop	Right Edge	0	171	5855	0.08	0.232	12.41	12.50	1.021	98.11	1.019	0.241	/

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

10.4WIFI 6GHz

Mode	Antenna Manufacturer	Antenna	Test Position	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 Factor	1g Scaled SAR (W/kg)	Measured APD 4cm ² [W/m ²]	Scaled APD [W/m ²]	Meas. No.
Body																		
802.11 be320	ZTX	Aux.	Laptop	Bottom Side	0	31	6105	0.02	0.441	11.58	12.00	1.102	98.70	1.013	0.492	2.780	3.103	/
	ICT	Aux.	Laptop	Bottom Side	0	31	6105	-0.05	0.412	11.58	12.00	1.102	98.70	1.013	0.460	2.600	2.902	/
	ZTX	Aux.	Laptop	Front Edge	0	31	6105	0.12	0.482	11.58	12.00	1.102	98.70	1.013	0.538	3.040	3.394	/
	ZTX	Aux.	Laptop	Front Edge	0	63	6265	-0.02	0.572	11.49	12.00	1.125	98.70	1.013	0.652	3.610	4.114	12#
	ZTX	Aux.	Laptop	Front Edge	0	95	6425	-0.07	0.403	11.41	12.00	1.146	98.70	1.013	0.468	2.540	2.949	/
	ZTX	Aux.	Laptop	Front Edge	0	127	6585	0.15	0.389	11.33	11.50	1.040	98.70	1.013	0.410	2.460	2.592	/
	ZTX	Aux.	Laptop	Front Edge	0	159	6745	-0.01	0.346	11.16	11.50	1.081	98.70	1.013	0.379	2.180	2.387	/
	ZTX	Aux.	Laptop	Front Edge	0	191	6905	-0.05	0.441	11.48	11.50	1.005	98.70	1.013	0.449	2.780	2.830	/
	ICT	Aux.	Laptop	Front Edge	0	31	6105	0.11	0.501	11.58	12.00	1.102	98.70	1.013	0.559	3.160	3.528	/
	ZTX	Main	Laptop	Bottom Side	0	31	6105	0.18	0.290	11.67	12.00	1.079	98.70	1.013	0.317	1.910	2.088	13#
	ZTX	Main	Laptop	Bottom Side	0	63	6265	-0.06	0.241	11.54	12.00	1.112	98.70	1.013	0.271	1.590	1.791	/
	ZTX	Main	Laptop	Bottom Side	0	95	6425	0.13	0.238	11.42	12.00	1.143	98.70	1.013	0.276	1.570	1.818	/
	ZTX	Main	Laptop	Bottom Side	0	127	6585	-0.01	0.201	10.76	11.50	1.186	98.70	1.013	0.241	1.320	1.586	/
	ZTX	Main	Laptop	Bottom Side	0	159	6745	-0.04	0.223	10.70	11.50	1.202	98.70	1.013	0.272	1.470	1.790	/
	ZTX	Main	Laptop	Bottom Side	0	191	6905	-0.08	0.245	10.71	11.50	1.199	98.70	1.013	0.298	1.610	1.955	/
	ICT	Main	Laptop	Bottom Side	0	31	6105	0.11	0.271	11.67	12.00	1.079	98.70	1.013	0.296	1.790	1.957	/
	ZTX	Main	Laptop	Front Edge	0	31	6105	0.08	0.012	11.67	12.00	1.079	98.70	1.013	0.013	0.080	0.087	/
	ICT	Main	Laptop	Front Edge	0	31	6105	0.07	0.018	11.67	12.00	1.079	98.70	1.013	0.020	0.120	0.131	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

Mode	Antenna Manufacturer	Antenna	Test Position	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 Factor	10g Scaled SAR (W/kg)	Measured APD 4cm² [W/m²]	Scaled APD [W/m²]	Meas. No.
Limbs																		
802.11 be320	ZTX	Aux.	Laptop	Keyboard Side	0	31	6105	0.08	0.226	11.58	12.00	1.102	98.70	1.013	0.252	5.150	5.749	25#
	ZTX	Aux.	Laptop	Keyboard Side	0	63	6265	-0.02	0.212	11.49	12.00	1.125	98.70	1.013	0.242	4.830	5.504	/
	ZTX	Aux.	Laptop	Keyboard Side	0	95	6425	0.00	0.177	11.41	12.00	1.146	98.70	1.013	0.205	4.030	4.678	/
	ZTX	Aux.	Laptop	Keyboard Side	0	127	6585	-0.02	0.176	11.33	11.50	1.040	98.70	1.013	0.185	4.010	4.225	/
	ZTX	Aux.	Laptop	Keyboard Side	0	159	6745	-0.04	0.143	11.16	11.50	1.081	98.70	1.013	0.157	3.260	3.570	/
	ZTX	Aux.	Laptop	Keyboard Side	0	191	6905	0.18	0.174	11.48	11.50	1.005	98.70	1.013	0.177	3.970	4.042	/
	ICT	Aux.	Laptop	Keyboard Side	0	31	6105	-0.04	0.200	11.58	12.00	1.102	98.70	1.013	0.223	4.560	5.090	/
	ZTX	Main	Laptop	Keyboard Side	0	31	6105	-0.05	0.282	11.67	12.00	1.079	98.70	1.013	0.308	6.510	7.116	26#
	ZTX	Main	Laptop	Keyboard Side	0	63	6265	-0.01	0.266	11.54	12.00	1.112	98.70	1.013	0.300	6.140	6.916	/
	ZTX	Main	Laptop	Keyboard Side	0	95	6425	0.06	0.255	11.42	12.00	1.143	98.70	1.013	0.295	5.890	6.820	/
	ZTX	Main	Laptop	Keyboard Side	0	127	6585	-0.09	0.214	10.76	11.50	1.186	98.70	1.013	0.257	4.940	5.935	/
	ZTX	Main	Laptop	Keyboard Side	0	159	6745	0.11	0.183	10.70	11.50	1.202	98.70	1.013	0.223	4.230	5.151	/
	ZTX	Main	Laptop	Keyboard Side	0	191	6905	-0.06	0.234	10.71	11.50	1.199	98.70	1.013	0.284	5.400	6.559	/
	ICT	Main	Laptop	Keyboard Side	0	31	6105	0.13	0.260	11.67	12.00	1.079	98.70	1.013	0.284	6.000	6.558	/
	ZTX	Main	Laptop	Right Edge	0	31	6105	-0.09	0.156	11.67	12.00	1.079	98.70	1.013	0.171	3.600	3.935	/
	ICT	Main	Laptop	Right Edge	0	31	6105	0.03	0.153	11.67	12.00	1.079	98.70	1.013	0.167	3.530	3.858	/
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 Mode	Antenna	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Largest to Smallest SAR Ratio
5290	802.11ac80	ZTX	Laptop	Aux.	Body	Front Edge	0.877	Yes	0.848	1.03
5690	802.11ac80	ZTX	Laptop	Aux.	Body	Front Edge	1.070	Yes	1.030	1.04
5530	802.11ac80	ZTX	Laptop	Aux.	Body	Front Edge	0.889	Yes	0.854	1.04
5610	802.11ac80	ZTX	Laptop	Aux.	Body	Front Edge	0.911	Yes	0.892	1.02
5690	802.11ac80	ICT	Laptop	Aux.	Body	Front Edge	0.809	Yes	0.784	1.03
5775	802.11ac80	ZTX	Laptop	Aux.	Body	Front Edge	0.827	Yes	0.801	1.03

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second 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	State
1	Bluetooth (Antenna Main) + Bluetooth (Auxiliary) + WLAN 5GHz (Antenna Main) + WLAN 5GHz (Antenna Auxiliary)	Yes	Non-DBS
2	Bluetooth (Antenna Main) + Bluetooth (Auxiliary) + WLAN 6GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	Yes	
3	WLAN 2.4GHz (Antenna Main) + WLAN 2.4GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes	DBS
4	WLAN 2.4GHz (Antenna Main) + WLAN 2.4GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes	
5	Bluetooth (Antenna Main) + Bluetooth (Auxiliary) + WLAN 5GHz (Antenna Main) (UNI1-2A) + WLAN 5GHz (Antenna Auxiliary) (UNI1-2A) + WLAN 5GHz (Antenna Main) (UN2C-4) + WLAN 5GHz (Antenna Auxiliary) (UN2C-4)	Yes	HBS
6	Bluetooth (Antenna Main) + Bluetooth (Auxiliary) + WLAN 5GHz (Antenna Main) (UNI1-2A) + WLAN 5GHz (Antenna Auxiliary) (UNI1-2A) + WLAN 6GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	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.			

12.2Body Simultaneous Transmission SAR Evaluation (No DBS)

State	Position	Standalone SAR						SUM SAR	
		1	2	3	4	5	6		
		Bluetooth (Antenna Auxiliary)	Bluetooth (Antenna Main)	WLAN 5GHz MAX (Antenna Auxiliary)	WLAN 5GHz MAX (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	Sum SAR (1+2+3+4)	Sum SAR (1+2+5+6)
Laptop	Bottom Side	0.152	0.118	0.563	0.547	0.492	0.317	1.380	1.079
Laptop	Front Edge	0.069	0.029	1.113	0.059	0.652	0.020	1.270	0.770
Note:									
1: The highest Summed 1g SAR is 1.380 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.									

12.3Body Simultaneous Transmission SAR Evaluation (DBS)

State	Position	Standalone SAR						SUM SAR		SPLSR SAR	
		1	2	3	4	5	6				
		WLAN 2.4GHz (Antenna Auxiliary)	WLAN 2.4GHz (Antenna Main)	WLAN 5GHz MAX (Antenna Auxiliary)	WLAN 5GHz MAX (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	Sum SAR (1+2+3+4)	Sum SAR (1+2+5+6)	Sum SAR (1+2+3+4)	Sum SAR (1+2+5+6)
Laptop	Bottom Side	0.678	0.505	0.563	0.547	0.492	0.317	2.293	1.992	0.04 ^{1#}	0.03 ^{2#}
Laptop	Front Edge	0.263	0.050	1.113	0.059	0.652	0.020	1.485	0.985	/	/
Note:											
1: The highest Summed 1g SAR is 2.293 W/Kg > 1.6 W/kg, so Simultaneous Transmission SAR test exclusion is determined by the SAR to peak location separation ratio.											
2: The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst SPLSR simultaneous transmission combinations is shown in this report.											
3: The SPLSR is < 0.04, so Simultaneous Transmission SAR test is not required.											

12.4Body Simultaneous Transmission SAR Evaluation (HBS)

State	Position	Standalone SAR								SUM SAR		SPLSR SAR	
		1	2	3	4	5	6	7	8				
		Bluetooth (Antenna Auxiliary)	Bluetooth (Antenna Main)	WLAN 5.2GHz MAX (Antenna Auxiliary)	WLAN 5.6/5.8/5.9G Hz MAX (Antenna Auxiliary)	WLAN 5.2GHz MAX (Antenna Main)	WLAN 5.6/5.8/5.9G Hz MAX (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	Sum SAR (1+2+3+4+5+6)	Sum SAR (1+2+3+5+7+8)	Sum SAR (1+2+3+4+5+6)	Sum SAR (1+2+3+5+7+8)
Laptop	Bottom Side	0.152	0.118	0.482	0.563	0.483	0.547	0.492	0.317	2.345	2.044	0.04 ^{3#}	0.03 ^{4#}
Laptop	Front Edge	0.069	0.029	0.982	1.113	0.046	0.059	0.652	0.020	2.298	1.798	0.04 ^{5#}	0.02 ^{6#}
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 simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst SPLSR simultaneous transmission combinations is shown in this report.													
3: The SPLSR is < 0.04, so Simultaneous Transmission SAR test is not required.													

12.5Limbs Simultaneous Transmission SAR Evaluation (No DBS)

State	Position	Standalone SAR						SUM SAR	
		1	2	3	4	5	6		
		Bluetooth (Antenna Auxiliary)	Bluetooth (Antenna Main)	WLAN 5GHz MAX (Antenna Auxiliary)	WLAN 5GHz MAX (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	Sum SAR (1+2+3+4)	Sum SAR (1+2+5+6)
Laptop	Keyboard Side	0.109	0.063	0.265	0.349	0.252	0.308	0.786	0.732
Laptop	Right Edge	0.000	0.012	0.000	0.349	0.000	0.171	0.361	0.183
Note:									
1: The highest Summed 10g SAR is 0.786 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.									

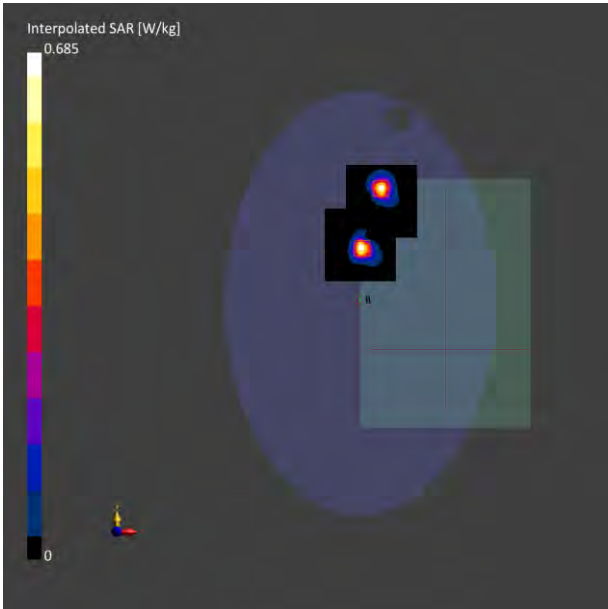
12.6Limbs Simultaneous Transmission SAR Evaluation (DBS)

State	Position	Standalone SAR						SUM SAR	
		1	2	3	4	5	6		
		WLAN 2.4GHz (Antenna Auxiliary)	WLAN 2.4GHz (Antenna Main)	WLAN 5GHz MAX (Antenna Auxiliary)	WLAN 5GHz MAX (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	Sum SAR (1+2+3+4)	Sum SAR (1+2+5+6)
Laptop	Keyboard Side	0.389	0.527	0.265	0.349	0.252	0.308	1.530	1.476
Laptop	Right Edge	0.000	0.082	0.000	0.349	0.000	0.171	0.431	0.253
Note:									
1: The highest Summed 10g SAR is 1.530 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.									

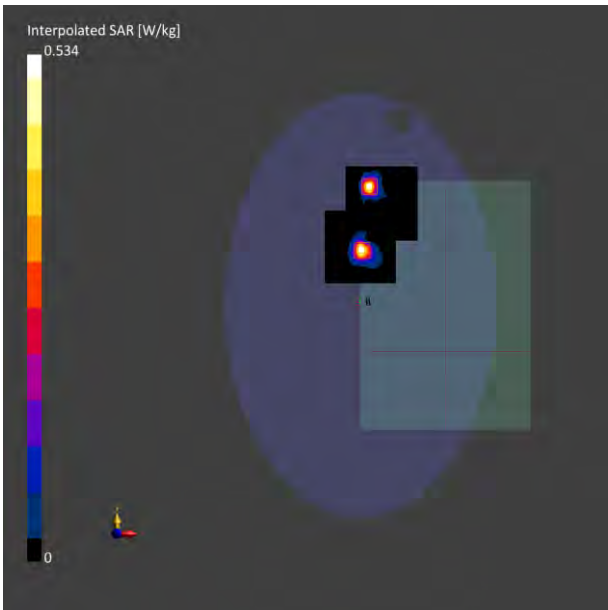
12.7Limbs Simultaneous Transmission SAR Evaluation (HBS)

State	Position	Standalone SAR								SUM SAR	
		1	2	3	4	5	6	7	8		
		Bluetooth (Antenna Auxiliary)	Bluetooth (Antenna Main)	WLAN 5.2GHz MAX (Antenna Auxiliary)	WLAN 5.6/5.8/5.9GHz MAX (Antenna Auxiliary)	WLAN 5.2GHz MAX (Antenna Main)	WLAN 5.6/5.8/5.9GHz MAX (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)	Sum SAR (1+2+3+4+5+6)	Sum SAR (1+2+3+5+7+8)
Laptop	Keyboard Side	0.109	0.063	0.233	0.265	0.305	0.349	0.252	0.308	1.324	1.270
Laptop	Right Edge	0.000	0.012	0.000	0.000	0.349	0.349	0.000	0.171	0.710	0.532
Note:											
1: The highest Summed 10g SAR is 1.324 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.											

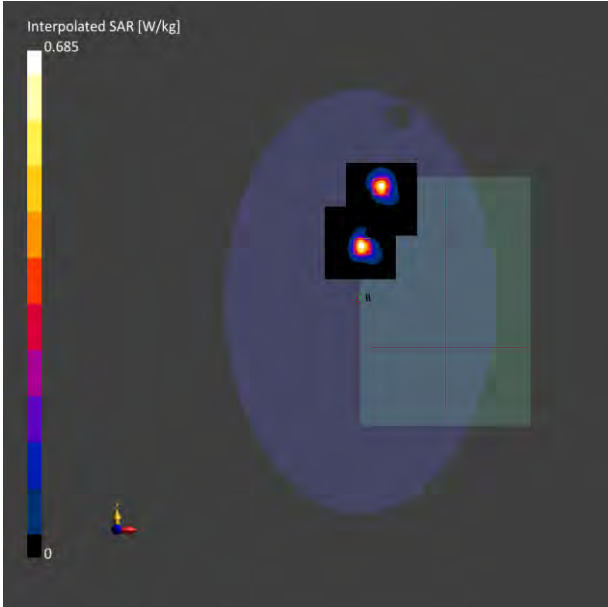
Case 1#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux+WLAN2.4G Ant.Main+WLAN5G Ant.Aux	Bottom	1.241	0.004998	0.077997	-0.175559	79.8	2.29	0.04	Not required
2	WLAN2.4G Ant.Main+WLAN5G Ant.Main	Side	1.046	2.60E-02	0.154994	-0.17559				



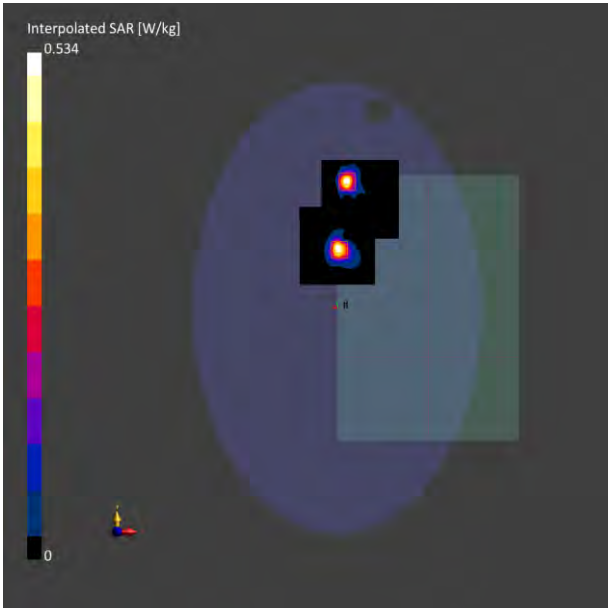
Case 2#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux+WLAN6G Ant.Aux	Bottom	1.170	0.007997	0.079997	-0.175543	82.1	1.99	0.03	Not required
2	WLAN2.4G Ant.Main+WLAN6G Ant.Main	Side	0.822	1.13E-02	0.162079	-0.175584				



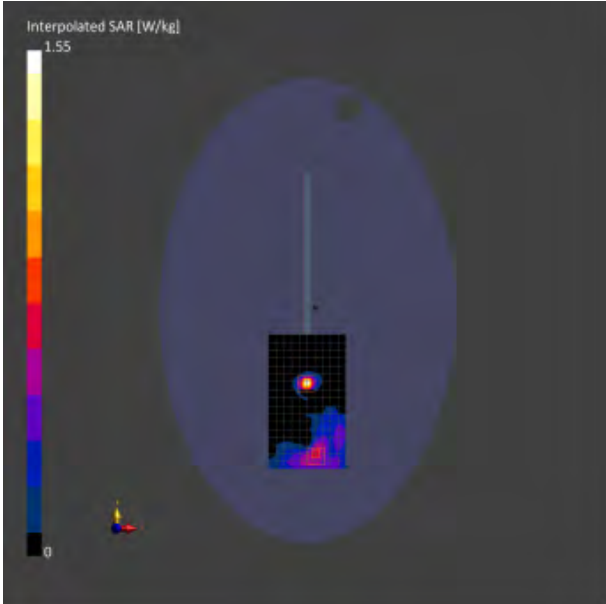
Case 3#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	BT AUX+WLAN5.3G Ant.Aux+WLAN5.6/5.8/5.9G Ant.Aux	Bottom	1.197	0.004998	0.077997	-0.175559	79.8	2.35	0.04	Not required
2	BT Main+WLAN5.3G Ant.Main+WLAN5.6/5.8/5.9G Ant.Main	Side	1.148	2.60E-02	0.154994	-0.17559				



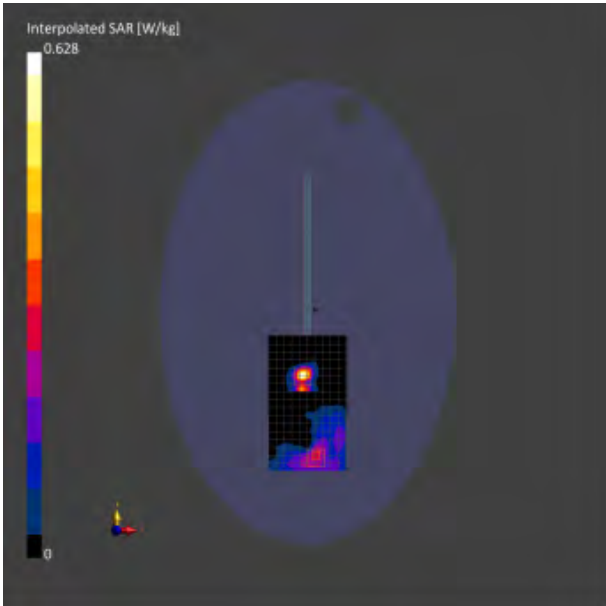
Case 4#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	BT AUX+WLAN5.3G Ant.Aux+WLAN6G Ant.Aux	Bottom	1.126	0.004998	0.077997	-0.175559	84.3	2.04	0.03	Not required
2	BT Main+WLAN5.3G Ant.Main+WLAN6G Ant.Main	Side	0.918	1.13E-02	0.162079	-0.175584				



Case 5#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	BT AUX+WLAN5.3G Ant.Aux+WLAN5.6/5.8/5.9G Ant.Aux	Front	2.164	-2.00E-06	-0.090995	-0.175596	90.3	2.30	0.04	Not required
2	BT Main+WLAN5.3G Ant.Main+WLAN5.6/5.8/5.9G Ant.Main	Edge	0.131	7.00E-03	-0.180999	-0.175594				



Case 6#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	BT AUX+WLAN5.3G Ant.Aux+WLAN6G Ant.Aux	Front	1.703	-0.005951	-0.07829	-0.175604	103.5	1.80	0.02	Not required
2	BT Main+WLAN5.3G Ant.Main+WLAN6G Ant.Main	Edge	0.092	7.00E-03	-0.180999	-0.175594				



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	DASY8	16.2.2.1588	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2024/05/28	2027/05/27
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2024/01/03	2025/01/02
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7893	2024/09/05	2025/09/04
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Network Analyzer	Agilent	E5071C	MY46103472	2024/09/11	2025/09/10
Thermometer	Elitech	RC-4HC	EF7216002985	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF720B004811	2024/10/31	2025/10/30
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	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
Phantom	Speag	ELI V8.0	SN: 2162	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 (%)
2024.12.30	Head	2450	21.4	1.80	40.72	1.80	39.20	0.00	3.88
2024.12.31	Head	2450	21.4	1.88	40.64	1.80	39.20	4.44	3.67
2025.12.17	Head	2450	21.6	1.76	39.95	1.80	39.20	-2.22	1.91
2025.01.01	Head	5250	21.1	4.73	35.92	4.71	35.93	0.42	-0.03
2025.12.18	Head	5250	21.3	4.65	36.76	4.71	35.93	-1.27	2.31
2025.01.02	Head	5600	21.1	5.11	35.17	5.07	35.53	0.79	-1.01
2025.12.19	Head	5600	21.1	5.12	35.04	5.07	35.53	0.99	-1.38
2025.01.07	Head	5750	21.7	5.27	35.06	5.22	35.36	0.96	-0.85
2025.01.08	Head	5750	21.4	5.25	34.92	5.22	35.36	0.57	-1.24
2025.12.20	Head	5750	21.1	5.29	35.33	5.22	35.36	1.34	-0.08
2025.12.26	Head	6500	21.3	6.08	33.61	6.07	34.46	0.16	-2.47
2025.12.22	Head	6500	21.4	6.06	34.14	6.07	34.46	-0.16	-0.93
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 %.

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.12.30	Head	2450	100	5.350	53.50	52.60	1.71
2024.12.31	Head	2450	100	5.210	52.10	52.60	-0.95
2025.12.17	Head	2450	100	5.280	52.80	52.60	0.38
2025.01.01	Head	5250	100	7.810	78.10	77.70	0.51
2025.12.18	Head	5250	100	7.610	76.10	77.70	-2.06
2025.01.02	Head	5600	100	7.820	78.20	81.30	-3.81
2025.12.19	Head	5600	100	7.690	76.90	81.30	-5.41
2025.01.07	Head	5750	100	7.920	79.20	77.60	2.06
2025.01.08	Head	5750	100	7.450	74.50	77.60	-3.99
2025.12.20	Head	5750	100	7.310	73.10	77.60	-5.80
2025.12.26	Head	6500	100	28.600	286.00	299.00	-4.35
2025.12.22	Head	6500	100	29.300	293.00	299.00	-2.01

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 (%)
2024.12.30	Head	2450	100	2.450	24.50	24.70	-0.81
2024.12.31	Head	2450	100	2.340	23.40	24.70	-5.26
2025.12.17	Head	2450	100	2.350	23.50	24.70	-4.86
2025.01.01	Head	5250	100	2.260	22.60	22.00	2.73
2025.12.18	Head	5250	100	2.150	21.50	22.00	-2.27
2025.01.02	Head	5600	100	2.400	24.00	23.10	3.90
2025.12.19	Head	5600	100	2.310	23.10	23.10	0.00
2025.01.07	Head	5750	100	2.230	22.30	21.90	1.83
2025.01.08	Head	5750	100	2.160	21.60	21.90	-1.37
2025.12.20	Head	5750	100	2.160	21.60	21.90	-1.37
2025.12.26	Head	6500	100	5.220	52.20	55.20	-5.43
2025.12.22	Head	6500	100	5.350	53.50	55.20	-3.08

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

System Performance Check Data (2450MHz)

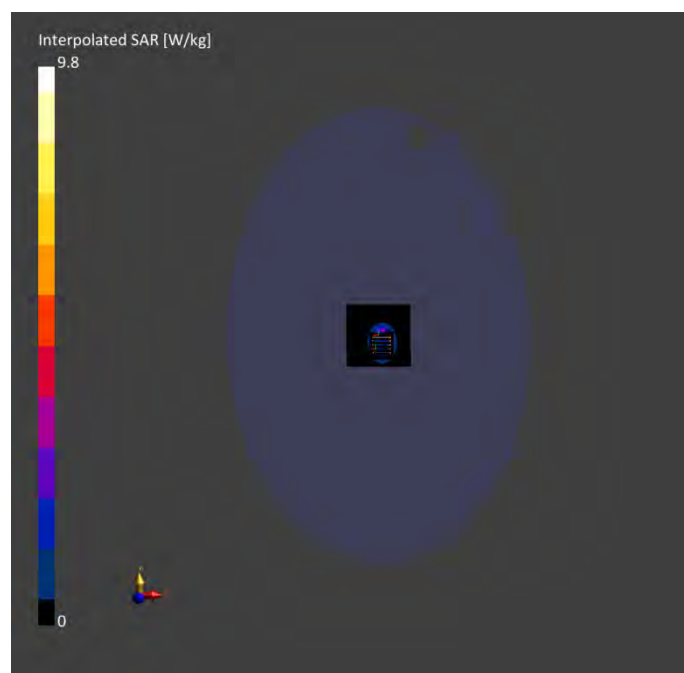
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	2450.0, 2450	6.98	1.80	40.7	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2024-12-30	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	30.0 x 30.0 x	Date	2024-12-30	2024-12-30
	[mm]		30.0	psSAR1g	5.15	5.35
Grid	Steps	8.0 x 10.0	5.0 x 5.0 x 1.5	[W/kg]		
	[mm]			psSAR10g	2.45	2.45
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.03	0.03
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		79.5
				Dist 3dB Peak		9.3
				[mm]		



System Performance Check Data (2450MHz)

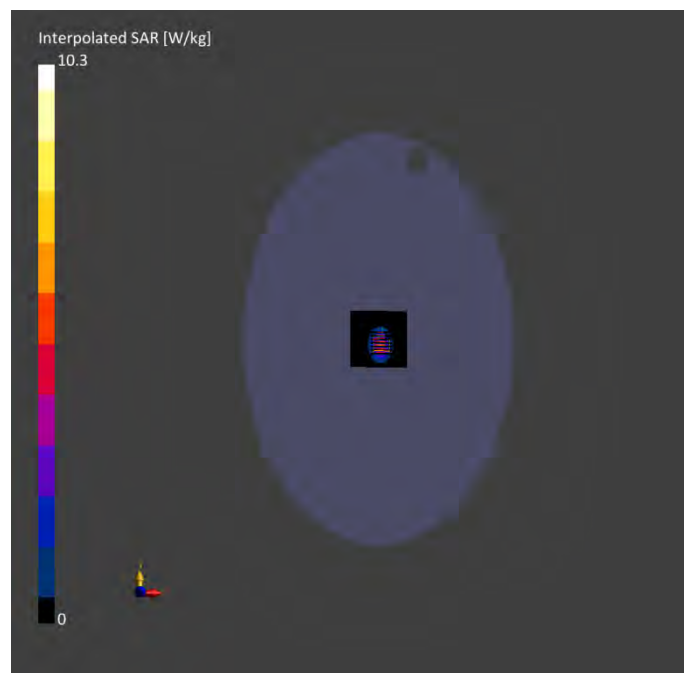
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	2450.0, 2450	6.98	1.88	40.6	22.5	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 31	2024-12-	EX3DV4 - SN7893, 2024-09- 05		DAE4 Sn1710, 2024-01- 03	

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	30.0 x 30.0 x	Date	2024-12-31	2024-12-31
	[mm]		30.0	psSAR1g	5.19	5.21
Grid	Steps	8.0 x 10.0	5.0 x 5.0 x 1.5	[W/kg]		
	[mm]			psSAR10g	2.35	2.34
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.12	0.02
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		80.2
				Dist 3dB Peak		9.6
				[mm]		



System Performance Check Data (2450MHz)

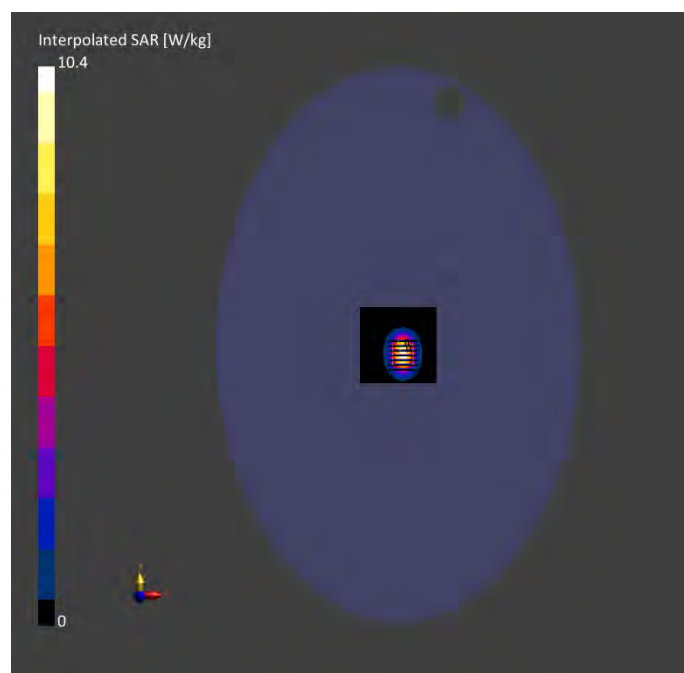
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	2450.0, 2450	6.98	1.76	39.9	22.3	21.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12-17	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1710, 2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	30.0 x 30.0 x	Date	2024-12-17	2024-12-17
	[mm]		30.0	psSAR1g	5.19	5.28
Grid	Steps	8.0 x 10.0	5.0 x 5.0 x 1.5	[W/kg]		
	[mm]			psSAR10g	2.32	2.35
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.11	0.04
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		80.1
				Dist 3dB Peak		9.5
				[mm]		



System Performance Check Data (5250MHz)

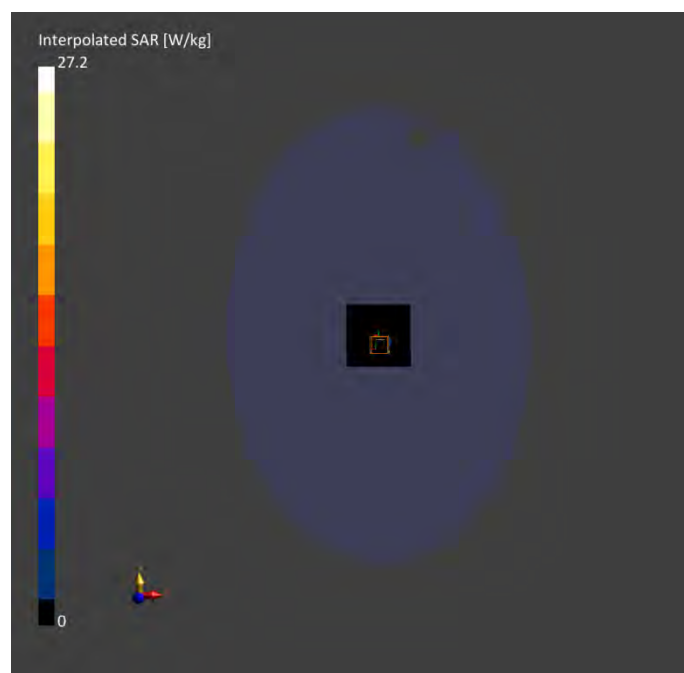
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5250.0, 5250	5.44	4.71	36.5	22.7	21.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12-18	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1710, 2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2024-12-18	2024-12-18
	[mm]		22.0	psSAR1g	7.12	7.61
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.01	2.15
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.02	-0.04
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		64.8
				Dist 3dB Peak		7.4
				[mm]		



System Performance Check Data (5250MHz)

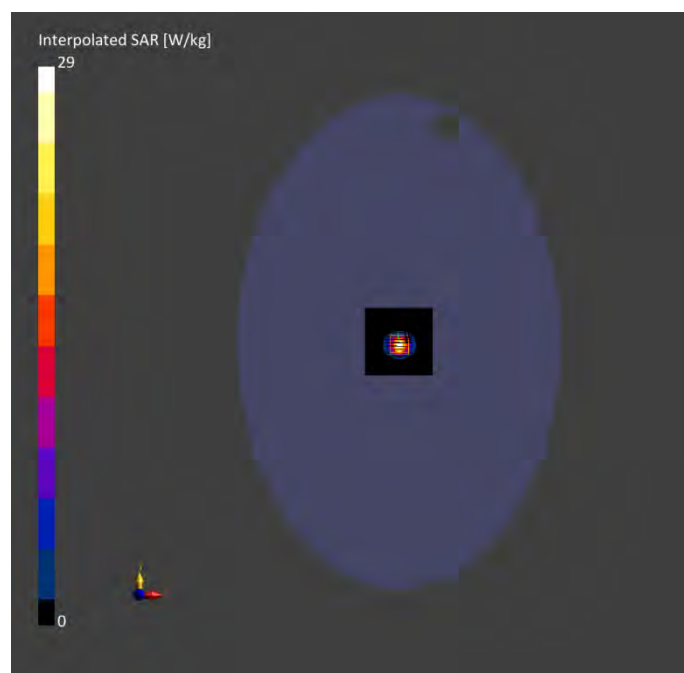
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5250.0, 5250	5.44	4.73	35.9	22.6	21.1

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2025-01-01	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2025-01-01	2025-01-01
	[mm]		22.0	psSAR1g	7.79	7.81
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.32	2.26
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.04	0.02
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		54.7
				Dist 3dB Peak		7.2
				[mm]		



System Performance Check Data (5600MHz)

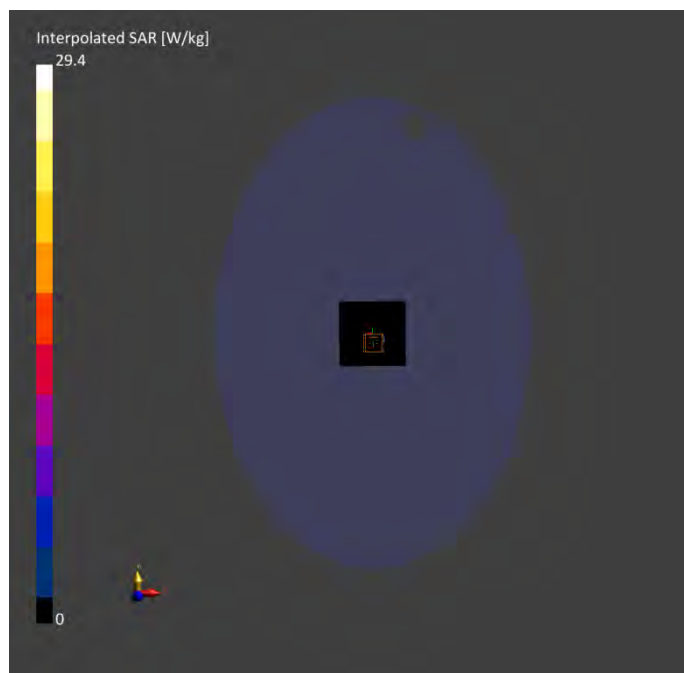
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5600.0, 5600	4.91	5.12	35.0	22.5	21.1

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-12-19	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2025-12-19	2025-12-19
	[mm]		22.0	psSAR1g	7.41	7.69
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.16	2.31
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.02	0.01
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		63.5
				Dist 3dB Peak		7.4
				[mm]		



System Performance Check Data (5600MHz)

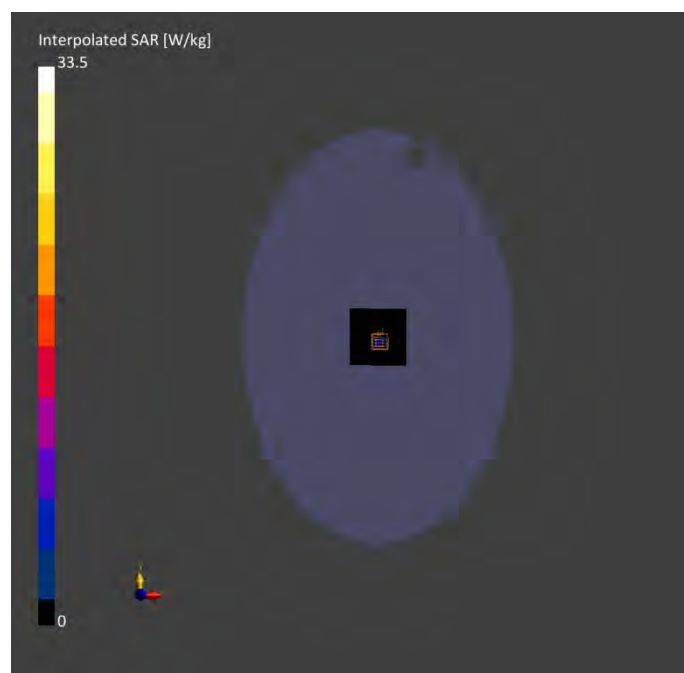
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5600.0, 5600	5.00	5.11	35.2	22.6	21.1

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 02	2025-01-	EX3DV4 - SN7510, 2024-06- 25		DAE4 Sn1711, 2024-03- 18	

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2025-01-02	2025-01-02
	[mm]		22.0	psSAR1g	7.61	7.82
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.33	2.40
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.04	0.01
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		62.7
				Dist 3dB Peak		7.1
				[mm]		



System Performance Check Data (5750MHz)

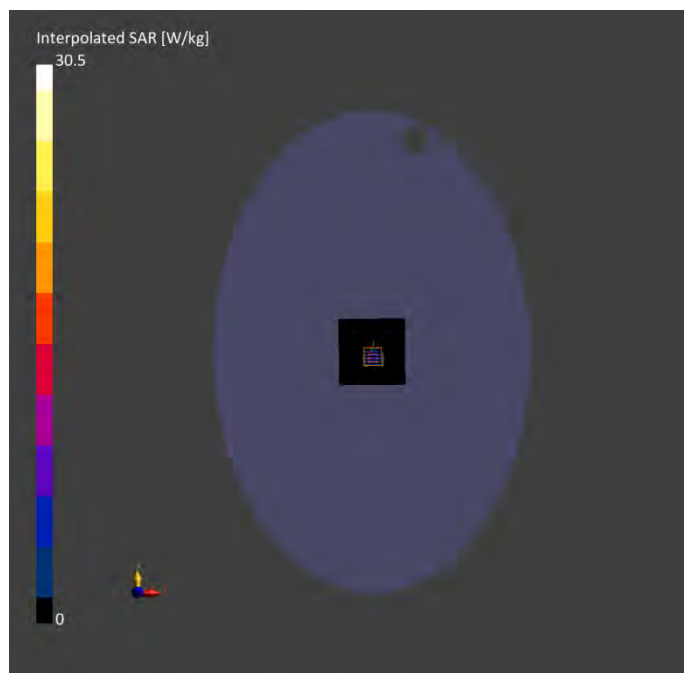
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5750.0, 5750	4.98	5.27	35.1	22.3	21.7

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-01-07	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711,	2024-03-18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2025-01-07	2025-01-07
	[mm]		22.0	psSAR1g	6.88	7.92
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.04	2.23
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.01	0.01
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		61.4
				Dist 3dB Peak		7.9
				[mm]		



System Performance Check Data (5750MHz)

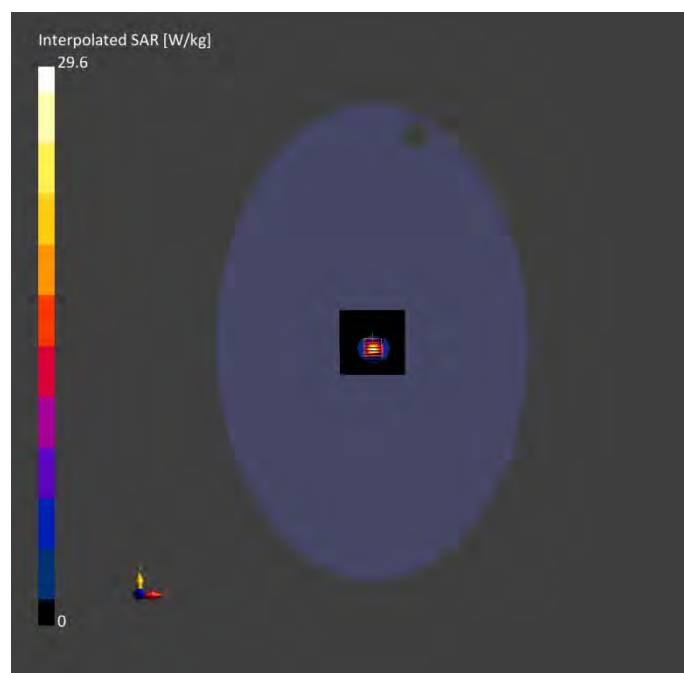
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5750.0, 5750	4.98	5.25	34.9	22.4	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-01-08	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711,	2024-03-18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2025-01-08	2025-01-08
	[mm]		22.0	psSAR1g	7.52	7.45
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.02	2.16
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.11	0.02
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		61.1
				Dist 3dB Peak		7.5
				[mm]		



System Performance Check Data (5750MHz)

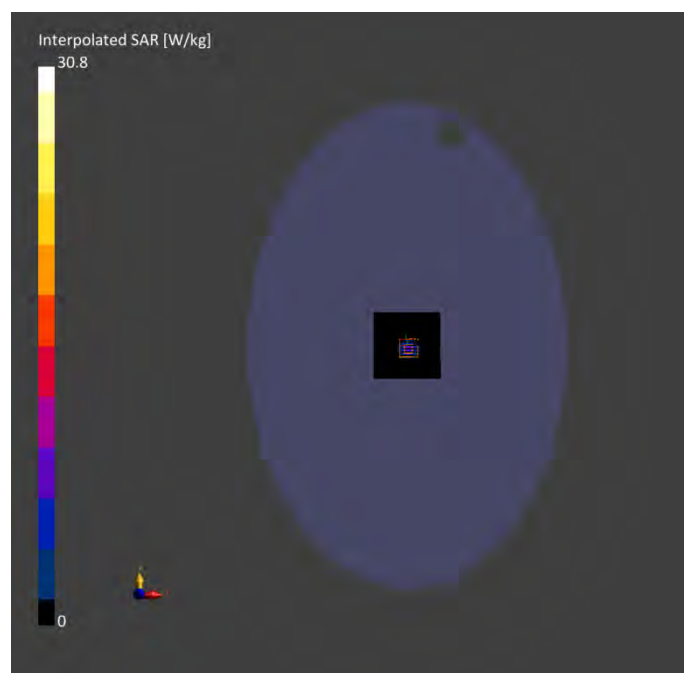
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5750.0, 5750	4.98	5.29	35.3	22.1	21.1

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2024-12-20	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2024-12-20	2024-12-20
	[mm]		22.0	psSAR1g	7.51	7.31
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.06	2.16
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.12	0.04
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		61.5
				Dist 3dB Peak		7.6
				[mm]		



System Performance Check Data (6500MHz)

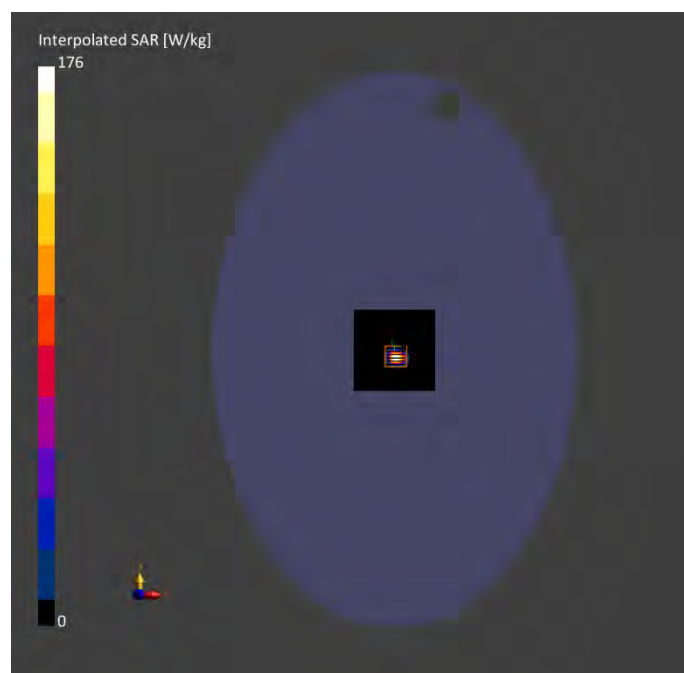
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	6500.0, 6500	5.11	6.08	33.6	22.5	21.3

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2024-12-26	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	85.0 x 85.0	22.0 x 22.0 x	Date	2024-12-26	2024-12-26
	[mm]		22.0	psSAR1g	27.6	28.6
Grid	Steps	8.5 x 8.5	3.4 x 3.4 x 1.4	[W/kg]		
	[mm]			psSAR10g	4.81	5.22
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				APD4cm ²		128
Graded Grid		Yes	Yes	[W/m ²]		
Grading Ratio		1.5	1.4	Power Drift	0.02	0.02
MAIA		N/A	N/A	[dB]		
Surface		All points	All points	Power Scaling	Disabled	Disabled
Detection				Scaling Factor		
Scan Method		Measured	Measured	[dB]		
				TSL	No correction	No correction
				Correction		
				M2/M1 [%]		49.2
				Dist 3dB Peak		4.3
				[mm]		



System Performance Check Data (6500MHz)

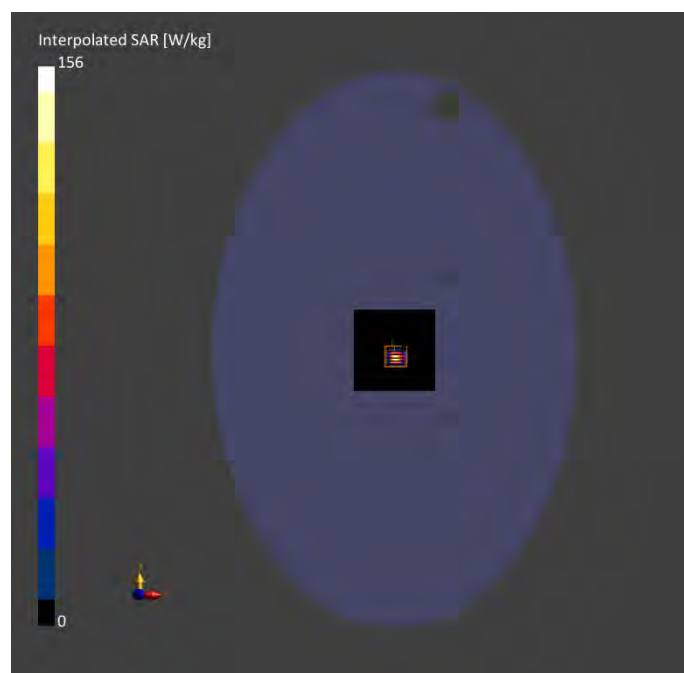
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	6500.0, 6500	5.11	6.06	34.1	22.2	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2024-12-22	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711,	2024-03-18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	85.0 x 85.0	22.0 x 22.0 x	Date	2024-12-22	2024-12-22
	[mm]		22.0	psSAR1g	19.8	29.3
Grid	Steps	8.5 x 8.5	3.4 x 3.4 x 1.4	[W/kg]		
	[mm]			psSAR10g	4.04	5.35
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				APD4cm ²		131
Graded Grid		Yes	Yes	[W/m ²]		
Grading Ratio		1.5	1.4	Power Drift	0.00	0.02
MAIA		N/A	N/A	[dB]		
Surface		All points	All points	Power Scaling	Disabled	Disabled
Detection				Scaling Factor		
Scan Method		Measured	Measured	[dB]		
				TSL	No correction	No correction
				Correction		
				M2/M1 [%]		49.5
				Dist 3dB Peak		4.4
				[mm]		



ANNEX C TEST DATA

Meas.1 Body Plane with Bottom Side 0mm on 78 Channel in Bluetooth mode with Antenna Auxiliary

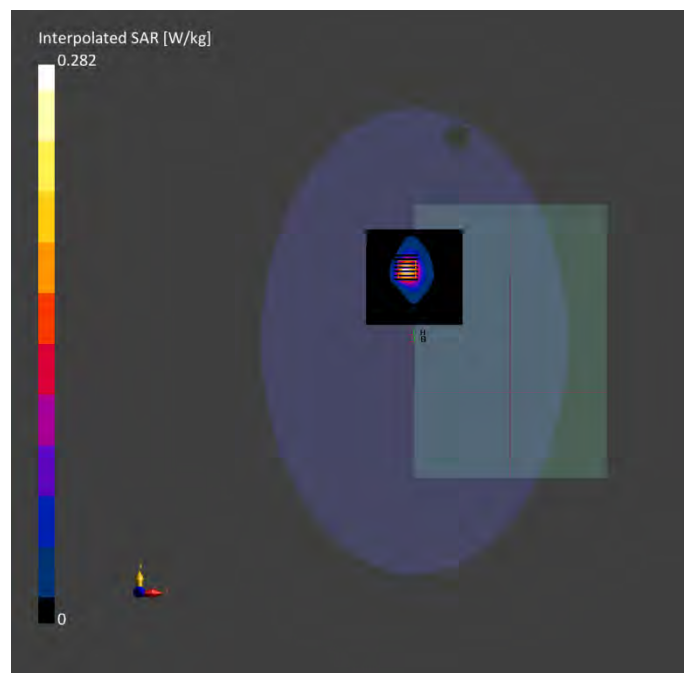
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	ISM 2.4 GHz Band	Bluetooth, 10032- CAA	2480.0, 78	6.98	1.89	40.6	22.5	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2024-12-31	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x	Date	2024-12-31	2024-12-31
	[mm]		30.0	psSAR1g	0.123	0.136
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]		
	[mm]			psSAR10g	0.058	0.063
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.06	-0.02
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		Y	Y	Scaling Factor		
Surface		VMS + 6p	VMS + 6p	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		47.3
				Dist 3dB Peak		9.8
				[mm]		



Meas.2 Body Plane with Bottom Side 0mm on 6 Channel in IEEE802.11b mode with Antenna Auxiliary
Exposure Conditions

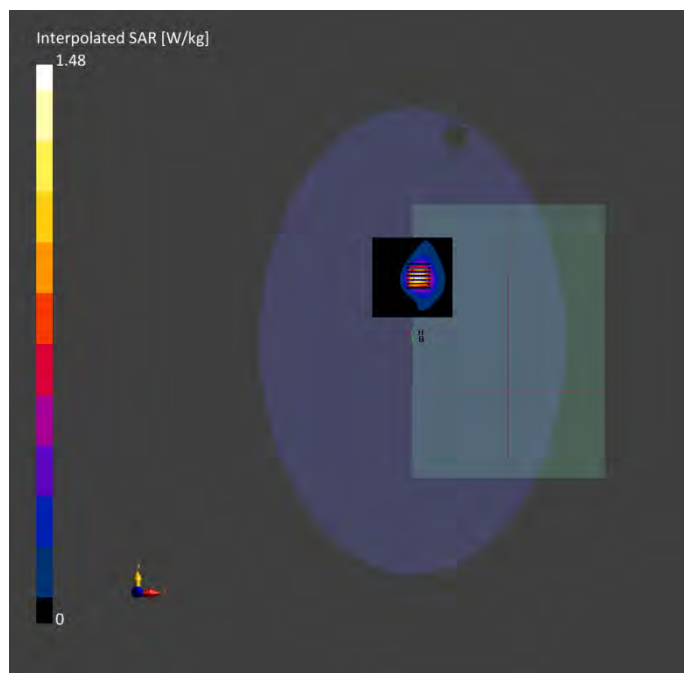
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	WLA N 2.4G Hz	WLAN, 10415- AAA	2437.0, 6	6.98	1.79	40.7	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12-30	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1710, 2024-01-03

Scan Setup
Measurement Results

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid	Extents	100.0 x 100.0	30.0 x 30.0 x	Date		2024-12-30	2024-12-30
	[mm]		30.0	psSAR1g		0.741	0.770
Grid	Steps	10.0 x 10.0	5.0 x 5.0 x 5.0	[W/kg]			
	[mm]			psSAR10g		0.354	0.367
Sensor		3.0	1.4	[W/kg]			
Surface [mm]				Power Drift		0.01	0.02
Graded Grid		Yes	Yes	[dB]			
Grading Ratio		1.5	1.5	Power Scaling	Disabled		Disabled
MAIA		N/A	N/A	Scaling Factor			
Surface		VMS + 6p	VMS + 6p	[dB]			
Detection				TSL	No correction		No correction
Scan Method		Measured	Measured	Correction			
				M2/M1 [%]			52.1
				Dist 3dB Peak			9.8
				[mm]			



Meas.3 Body Plane with Bottom Side 0mm on 11 Channel in IEEE802.11b mode with Antenna Main

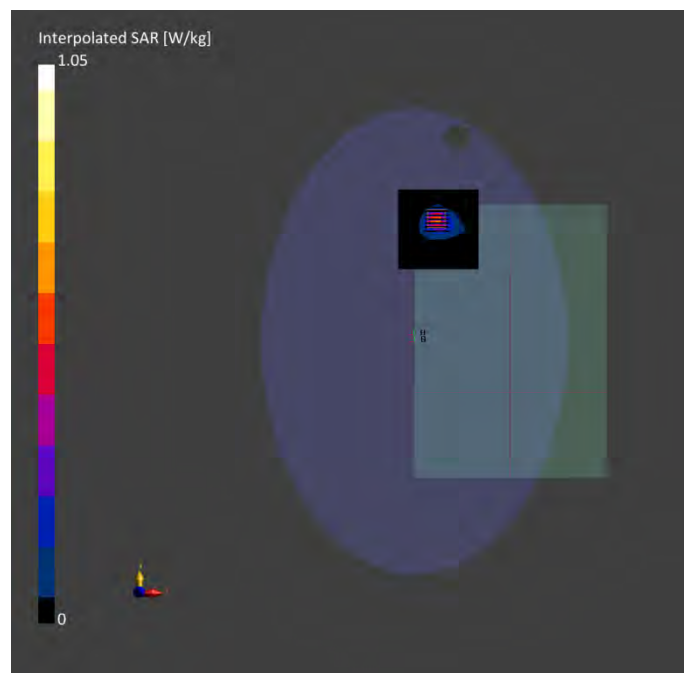
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	WLA N 2.4G Hz	WLAN, 10012- CAB	2462.0, 11	6.98	1.81	40.7	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2024-12-30	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1710,	2024-01-03

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	100.0 x 100.0	30.0 x 30.0 x	Date	2024-12-30	2024-12-30
	[mm]		30.0	psSAR1g	0.494	0.511
Grid	Steps	10.0 x 10.0	5.0 x 5.0 x 5.0	[W/kg]		
	[mm]			psSAR10g	0.228	0.226
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.03	-0.05
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		VMS + 6p	VMS + 6p	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		49.1
				Dist 3dB Peak		8.9
				[mm]		



Meas.4 Body Plane with Front Edge 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE FRONT, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5290.0, 58	5.44	4.79	35.9	22.6	21.1

Hardware Setup

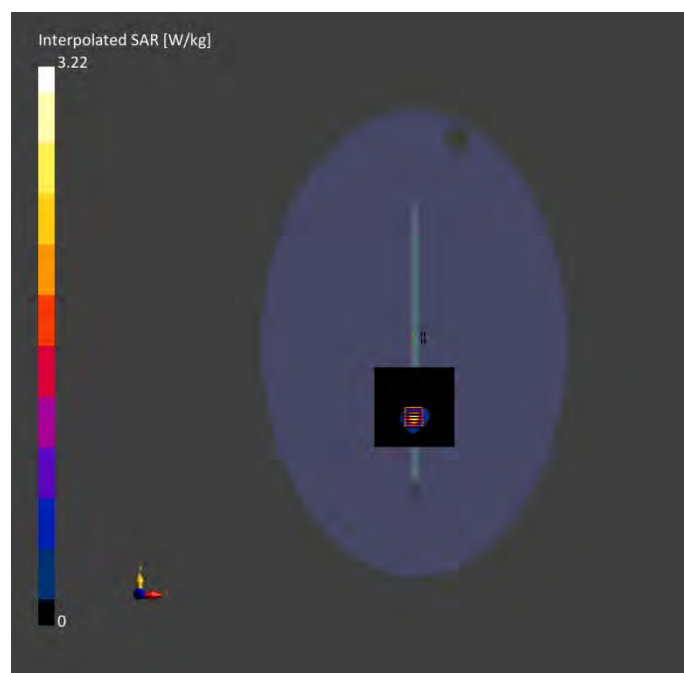
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-01-01	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn17110, 2024-01-03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-01	2025-01-01
psSAR1g [W/kg]	0.796	0.877
psSAR10g [W/kg]	0.230	0.249
Power Drift [dB]	-0.05	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		6.6



Meas.5 Body Plane with Bottom Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	WLA N 5GHz	WLAN, 10544- AAC	5290.0, 58	5.44	4.79	35.9	22.6	21.1

Hardware Setup

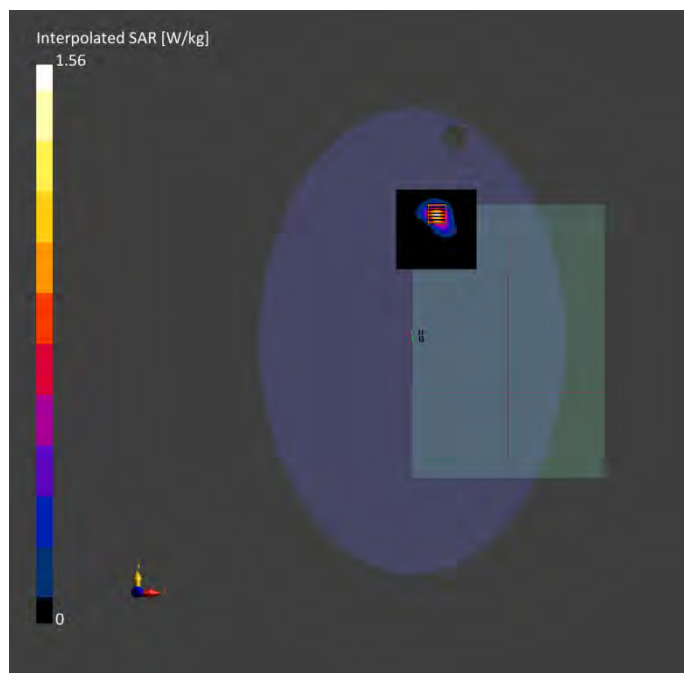
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 01 2025-01-	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1710, 2024-01- 03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-01	2025-01-01
psSAR1g [W/kg]	0.397	0.443
psSAR10g [W/kg]	0.131	0.143
Power Drift [dB]	-0.17	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		7.4



Meas.6 Body Plane with Front Edge 0mm on 138 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE FRONT, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5690.0, 138	5.00	5.22	34.8	22.6	21.1

Hardware Setup

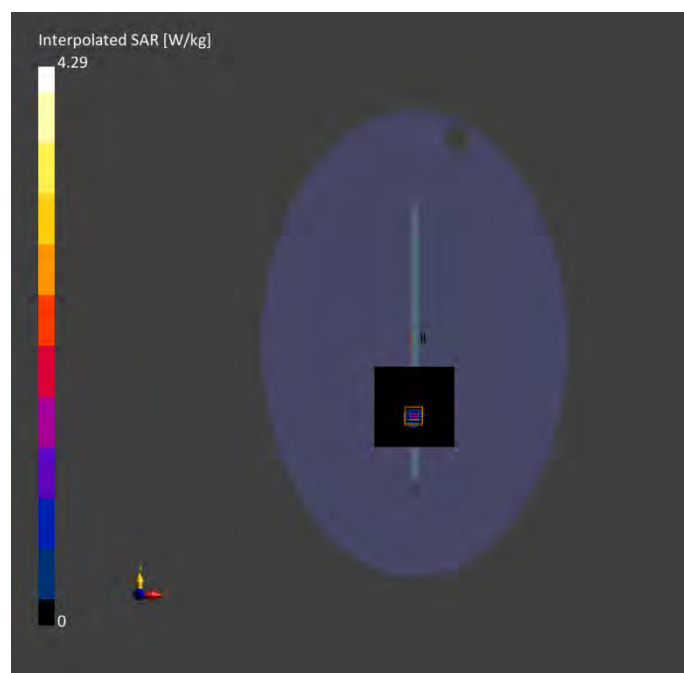
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-02	2025-01-02
psSAR1g [W/kg]	0.962	1.07
psSAR10g [W/kg]	0.271	0.299
Power Drift [dB]	-0.02	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		7.2



Meas.7 Body Plane with Bottom Side 0mm on 138 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	WLA N 5GHz	WLAN, 10544- AAC	5690.0, 138	5.00	5.22	34.8	22.6	21.1

Hardware Setup

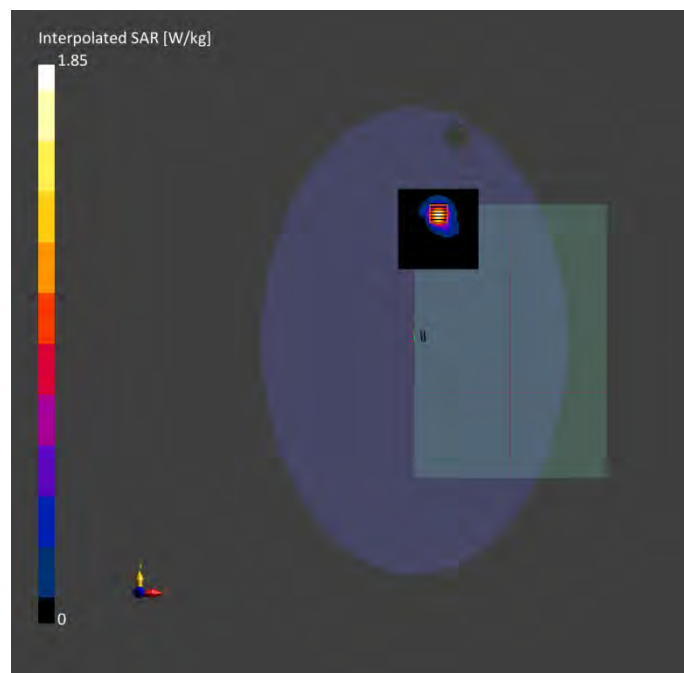
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-02	2025-01-02
psSAR1g [W/kg]	0.434	0.482
psSAR10g [W/kg]	0.145	0.155
Power Drift [dB]	-0.32	-0.17
Power Scaling	Disabled	Disabled
Scaling Factor		
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		7.5



Meas.8 Body Plane with Front Edge 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE FRONT, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5775.0, 155	4.98	5.30	35.0	22.3	21.7

Hardware Setup

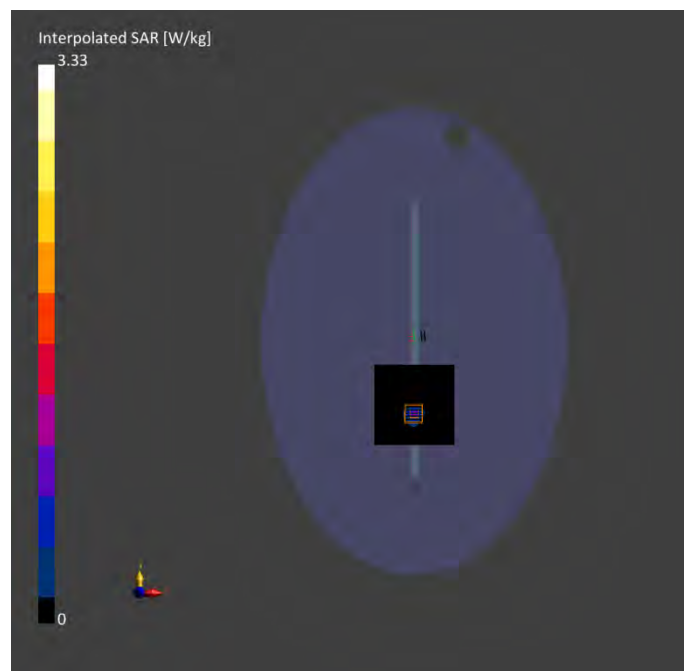
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-07	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-07	2025-01-07
psSAR1g [W/kg]	0.757	0.827
psSAR10g [W/kg]	0.212	0.231
Power Drift [dB]	-0.07	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		7.2



Meas.9 Body Plane with Bottom Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

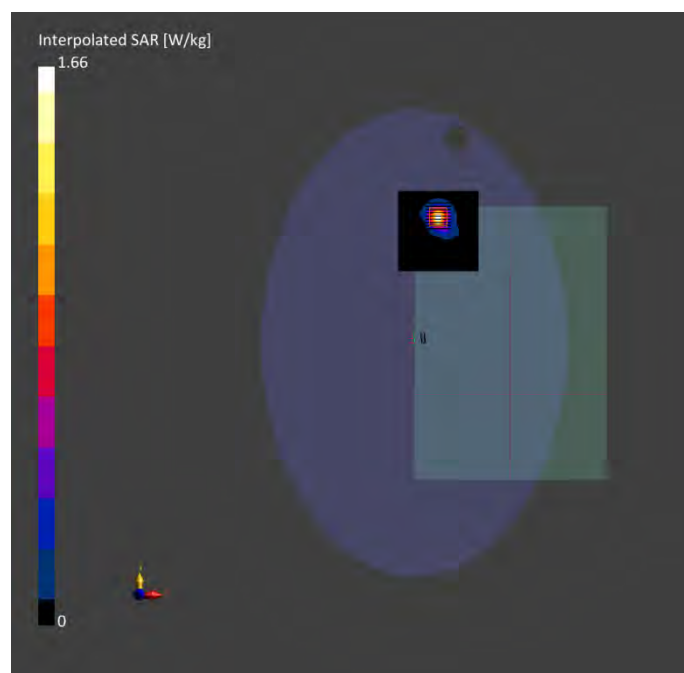
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	WLA N 5GHz	WLAN, 10544- AAC	5775.0, 155	4.98	5.30	35.0	22.3	21.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-07	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup
Measurement Results

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid	Extents	100.0 x 100.0	24.0 x 24.0 x	Date		2025-01-07	2025-01-07
	[mm]		22.0	psSAR1g		0.371	0.415
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 2.0	[W/kg]			
	[mm]			psSAR10g		0.123	0.133
Sensor		3.0	1.4	[W/kg]			
Surface [mm]				Power Drift		-0.04	-0.06
Graded Grid		Yes	Yes	[dB]			
Grading Ratio		1.5	1.4	Power Scaling		Disabled	Disabled
MAIA		Y	Y	Scaling Factor			
Surface		VMS + 6p	VMS + 6p	[dB]			
Detection				TSL		No correction	No correction
Scan Method		Measured	Measured	Correction			
				M2/M1 [%]			48.8
				Dist 3dB Peak			7.9
				[mm]			



Meas.10 Body Plane with Front Edge 0mm on 171 Channel in IEEE802.11ac80 mode with Antenna Auxiliary

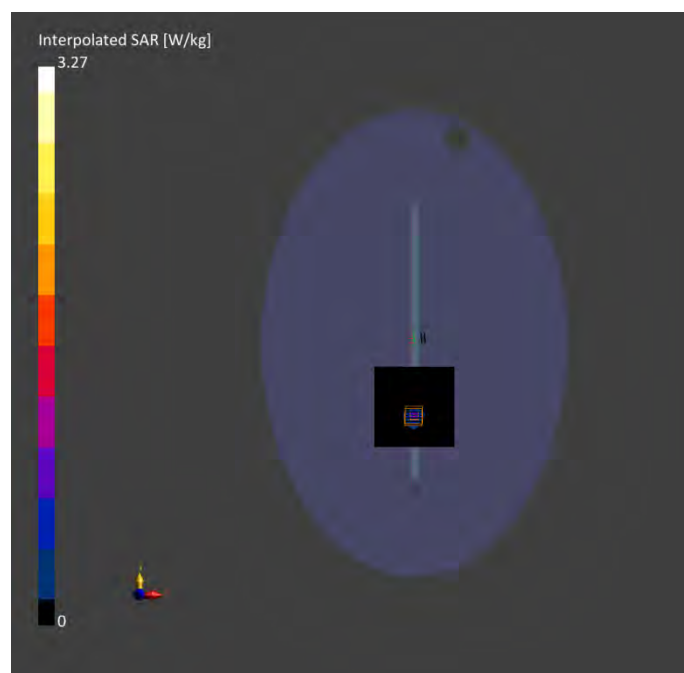
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE FRONT, 0.00	Custo m Band	CW, 10743- AAC	5855.0, 5855000	4.98	5.40	34.6	22.4	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	100.0 x 100.0	24.0 x 24.0 x	Date	2025-01-08	2025-01-08
			22.0	psSAR1g	0.732	0.791
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 2.0	[W/kg]		
				psSAR10g	0.206	0.222
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.07	-0.08
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		Y	N/A	Scaling Factor		
Surface		VMS + 6p	VMS + 6p	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		49.7
				Dist 3dB Peak		7.2
				[mm]		



Meas.11 Body Plane with Bottom Side 0mm on 171 Channel in IEEE802.11ac80 mode with Antenna Main

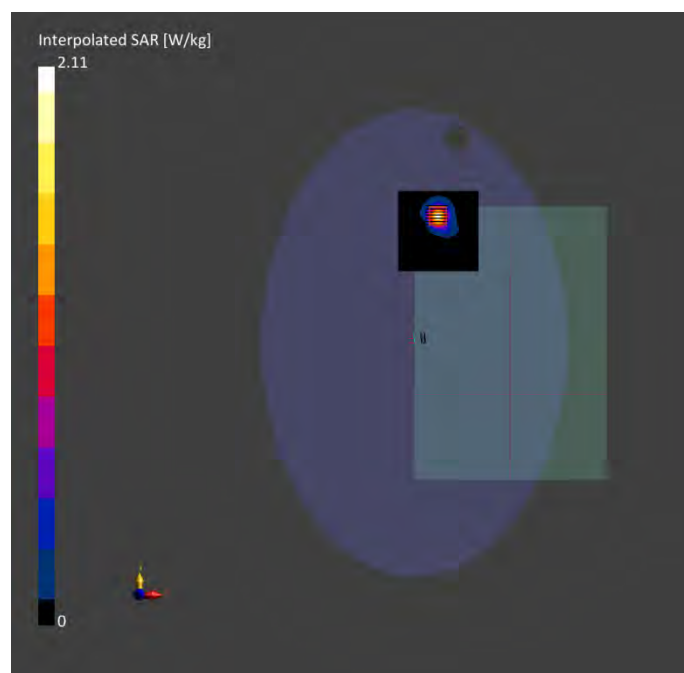
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	Custo m Band	CW, 10554- AAD	5855.0, 5855000	4.98	5.40	34.6	22.4	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-01-08	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711,	2024-03-18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	100.0 x 100.0	24.0 x 24.0 x	Date	2025-01-08	2025-01-08
	[mm]		22.0	psSAR1g	0.476	0.526
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 2.0	[W/kg]		
	[mm]			psSAR10g	0.158	0.168
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.16	-0.18
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		Y	Y	Scaling Factor		
Surface		VMS + 6p	VMS + 6p	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		48.5
				Dist 3dB Peak		7.4
				[mm]		



Meas.12 Body Plane with Front Edge 0mm on 63 Channel in IEEE802.11EHT320 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE FRONT, 0.00	U-NII- 5	WLAN, 11013- AAB	6265.0, 63	5.11	5.69	34.1	22.5	21.3

Hardware Setup

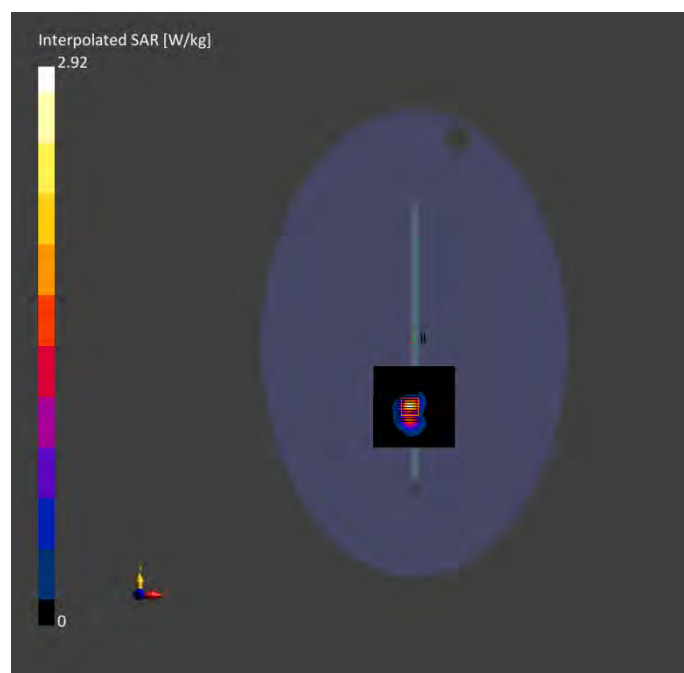
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12- 26	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn17110, 2024-01- 03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	23.8 x 23.8 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor	3.0	1.4
Surface [mm]		
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	2024-12-26	2024-12-26
psSAR1g [W/kg]	0.438	0.572
psSAR10g [W/kg]	0.132	0.157
APD4cm ² [W/m ²]		3.61
Power Drift [dB]	0.11	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		6.7



Meas.13 Body Plane with Bottom Side 0mm on 31 Channel in IEEE802.11EHT320 mode with Antenna Main

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	U-NII- 5	WLAN, 11026- AAB	6105.0, 31	5.11	5.55	34.3	22.5	21.3

Hardware Setup

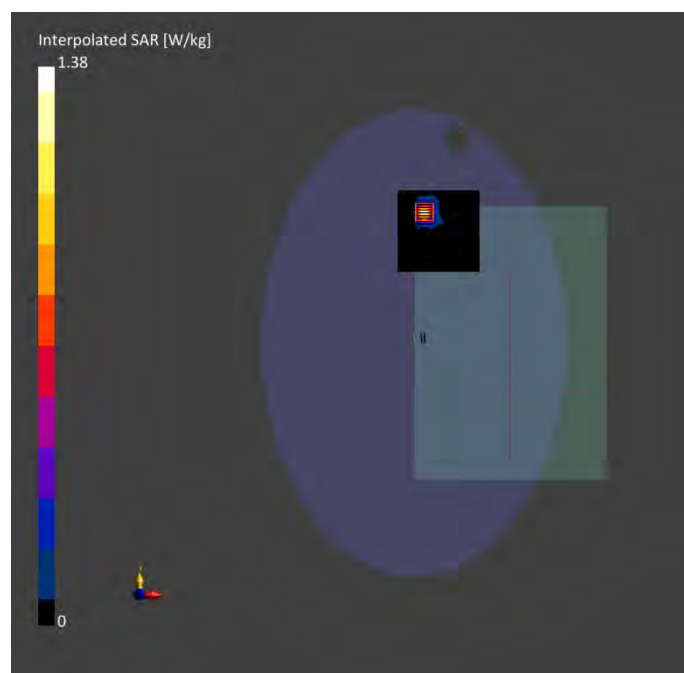
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2024-12- 26	EX3DV4 - SN7893, 2024-09- 05		DAE4 Sn1710, 2024-01- 03	

Scan Setup

		Area Scan	Zoom Scan
Grid	Extents	102.0 x 102.0	23.8 x 23.8 x
	[mm]		22.0
Grid	Steps	8.5 x 8.5	3.4 x 3.4 x 1.4
	[mm]		
Sensor		3.0	1.4
Surface [mm]			
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		Y	Y
Surface		VMS + 6p	VMS + 6p
Detection			
Scan Method		Measured	Measured

Measurement Results

		Area Scan	Zoom Scan
Date		2024-12-26	2024-12-26
psSAR1g		0.228	0.290
[W/kg]			
psSAR10g		0.071	0.082
[W/kg]			
APD4cm ²			1.91
[W/m ²]			
Power	Drift	1.04	0.18
[dB]			
Power Scaling		Disabled	Disabled
Scaling Factor			
[dB]			
TSL	No correction		No correction
Correction			
M2/M1 [%]			52.6
Dist 3dB Peak			6.7
[mm]			



Meas.14 Limbs Plane with Keyboard Side 0mm on 39 Channel in Bluetooth mode with Antenna Auxiliary
Exposure Conditions

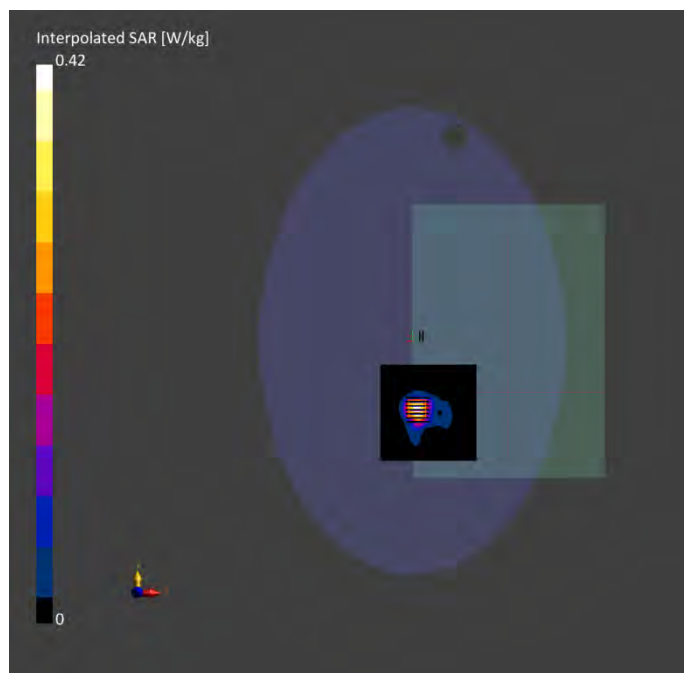
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032- CAA	2441.0, 39	6.98	1.87	40.7	22.5	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 31 2024-12-	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1710, 2024-01- 03

Scan Setup
Measurement Results

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x	Date		2024-12-31	2024-12-31
	[mm]		30.0	psSAR1g		0.200	0.206
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]			
	[mm]			psSAR10g		0.097	0.095
Sensor		3.0	1.4	[W/kg]			
Surface [mm]				Power Drift		-0.03	-0.04
Graded Grid		Yes	Yes	[dB]			
Grading Ratio		1.5	1.5	Power Scaling		Disabled	Disabled
MAIA		Y	Y	Scaling Factor			
Surface		VMS + 6p	VMS + 6p	[dB]			
Detection				TSL		No correction	No correction
Scan Method		Measured	Measured	Correction			
				M2/M1 [%]			49.3
				Dist 3dB Peak			9.4
				[mm]			



Meas.15 Limbs Plane with Keyboard Side 0mm on 11 Channel in IEEE802.11b mode with Antenna Auxiliary
Exposure Conditions

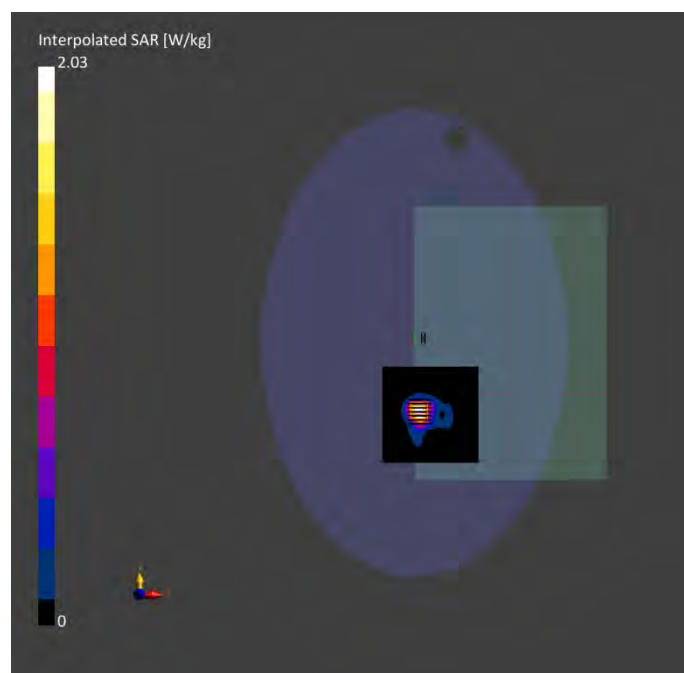
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 2.4G Hz	WLAN, 10012- CAB	2462.0, 11	6.98	1.81	40.7	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12-30	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1710, 2024-01-03

Scan Setup
Measurement Results

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x	Date		2024-12-30	2024-12-30
	[mm]		30.0	psSAR1g		0.972	0.996
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]			
	[mm]			psSAR10g		0.470	0.456
Sensor		3.0	1.4	[W/kg]			
Surface [mm]				Power Drift		-0.08	-0.06
Graded Grid		Yes	Yes	[dB]			
Grading Ratio		1.5	1.5	Power Scaling		Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor			
Surface		VMS + 6p	VMS + 6p	[dB]			
Detection				TSL		No correction	No correction
Scan Method		Measured	Measured	Correction			
				M2/M1 [%]			49.4
				Dist 3dB Peak			9.4
				[mm]			



Meas.16 Limbs Plane with Keyboard Side 0mm on 11 Channel in IEEE802.11b mode with Antenna Main
Exposure Conditions

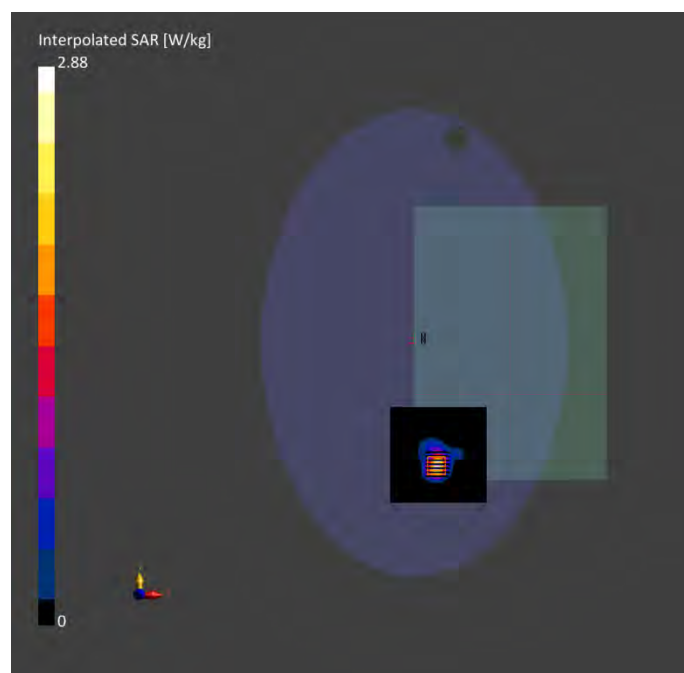
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 2.4G Hz	WLAN, 10012- CAB	2462.0, 11	6.98	1.81	40.7	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12-30	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1710, 2024-01-03

Scan Setup
Measurement Results

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x	Date		2024-12-30	2024-12-30
	[mm]		30.0	psSAR1g		1.02	1.27
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]			
	[mm]			psSAR10g		0.460	0.514
Sensor		3.0	1.4	[W/kg]			
Surface [mm]				Power Drift		-0.15	-0.03
Graded Grid		Yes	Yes	[dB]			
Grading Ratio		1.5	1.5	Power Scaling		Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor			
Surface		VMS + 6p	VMS + 6p	[dB]			
Detection				TSL		No correction	No correction
Scan Method		Measured	Measured	Correction			
				M2/M1 [%]			43.0
				Dist 3dB Peak			7.3
				[mm]			



Meas.17 Limbs Plane with Keyboard Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAD	5290.0, 58	5.44	4.79	35.9	22.6	21.1

Hardware Setup

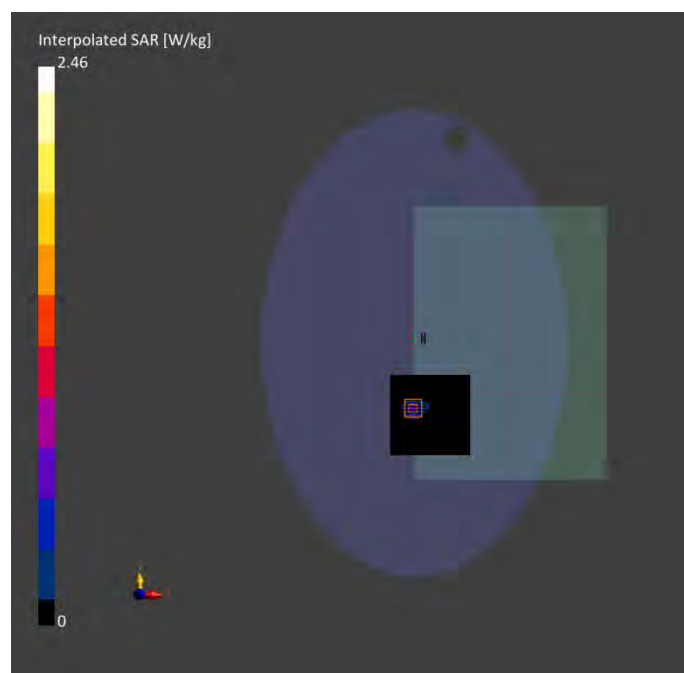
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-01-01	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn17110, 2024-01-03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-01	2025-01-01
psSAR1g [W/kg]	0.629	0.671
psSAR10g [W/kg]	0.203	0.208
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		7.4



Meas.18 Limbs Plane with Right Edge 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE RIGHT, 0.00	WLA N 5GHz	WLAN, 10544- AAD	5290.0, 58	5.44	4.79	35.9	22.6	21.1

Hardware Setup

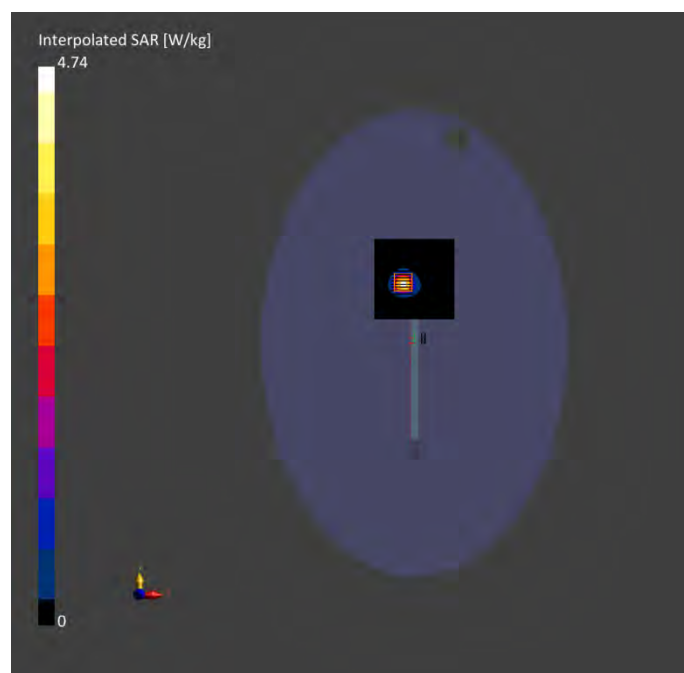
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-01-01	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1710, 2024-01-03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	All points
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-01	2025-01-01
psSAR1g [W/kg]	0.788	1.14
psSAR10g [W/kg]	0.257	0.320
Power Drift [dB]	-0.02	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		6.8



Meas.19 Limbs Plane with Keyboard Side 0mm on 138 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAD	5690.0, 138	5.00	5.22	34.8	22.6	21.1

Hardware Setup

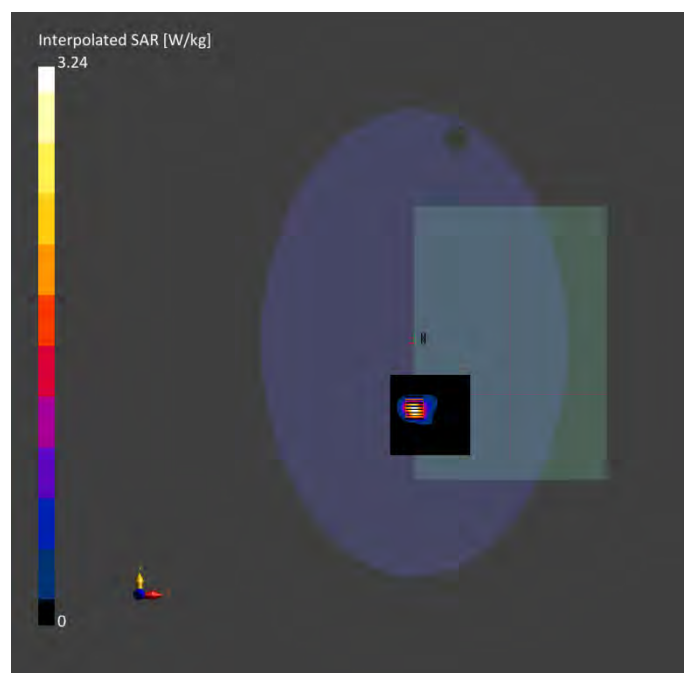
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-02	2025-01-02
psSAR1g [W/kg]	0.769	0.775
psSAR10g [W/kg]	0.254	0.255
Power Drift [dB]	-0.05	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		47.6
Dist 3dB Peak [mm]		5.6



Meas.20 Limbs Plane with Keyboard Side 0mm on 122 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAD	5610.0, 122	5.00	5.12	35.1	22.6	21.1

Hardware Setup

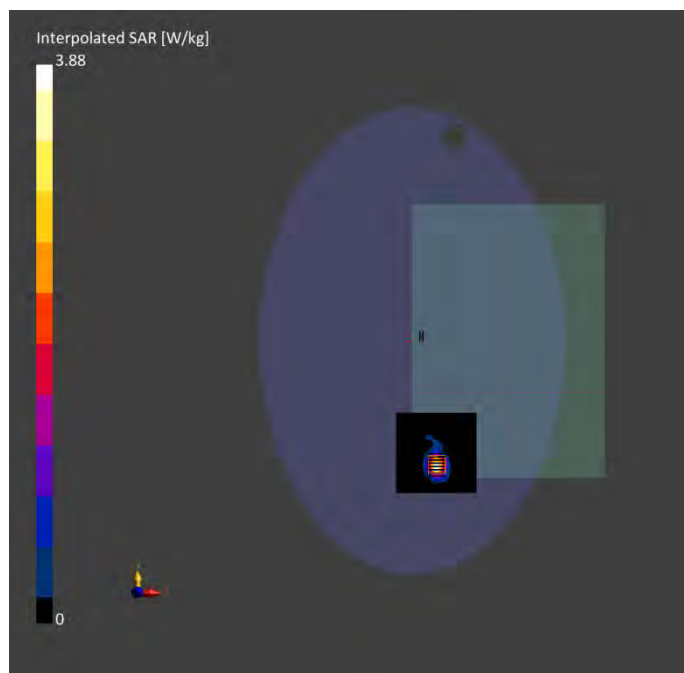
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-02	2025-01-02
psSAR1g [W/kg]	0.824	0.976
psSAR10g [W/kg]	0.268	0.328
Power Drift [dB]	-0.16	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		6.6



Meas.21 Limbs Plane with Keyboard Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAD	5775.0, 155	4.98	5.29	34.9	22.4	21.4

Hardware Setup

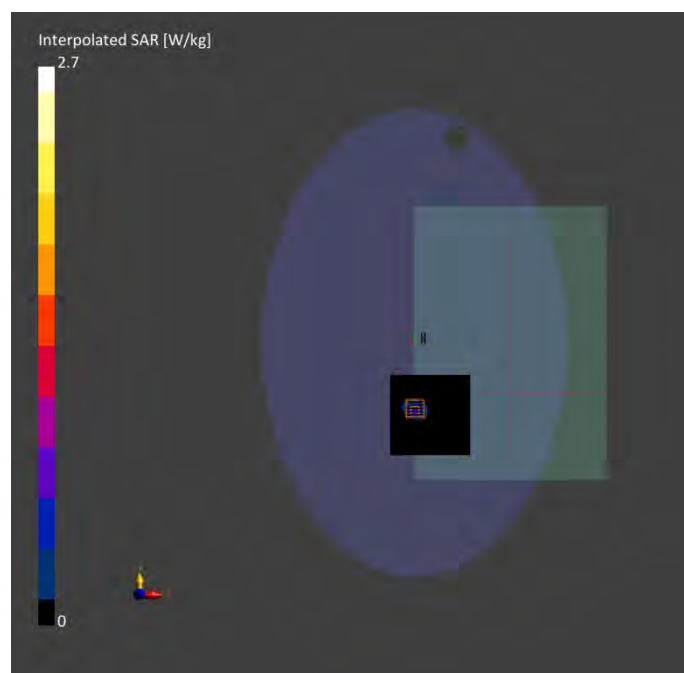
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-08	2025-01-08
psSAR1g [W/kg]	0.587	0.612
psSAR10g [W/kg]	0.194	0.199
Power Drift [dB]	0.05	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		47.5
Dist 3dB Peak [mm]		5.7



Meas.22 Limbs Plane with Keyboard Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAD	5775.0, 155	4.98	5.29	34.9	22.4	21.4

Hardware Setup

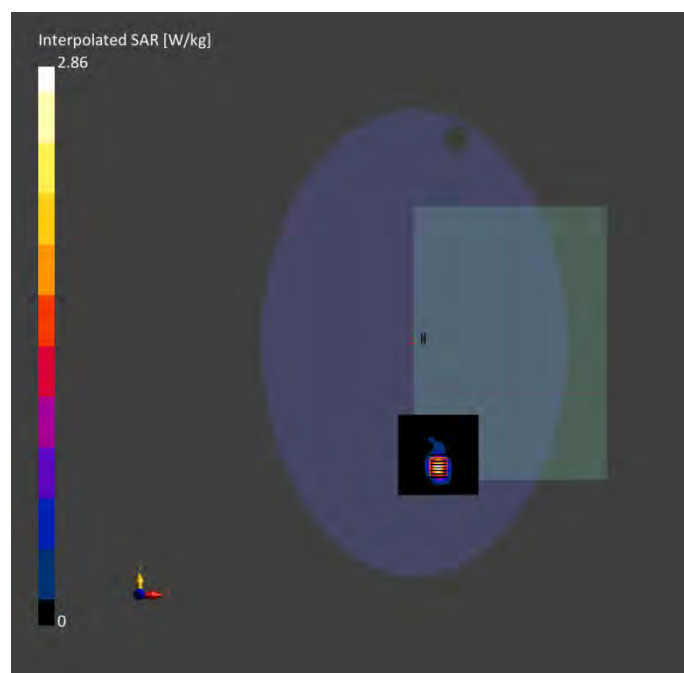
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-08	2025-01-08
psSAR1g [W/kg]	0.629	0.686
psSAR10g [W/kg]	0.204	0.226
Power Drift [dB]	-0.02	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		47.6
Dist 3dB Peak [mm]		6.1



Meas.23 Limbs Plane with Keyboard Side 0mm on 171 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	Custo m Band	CW, 10554- AAE	5855.0, 5855000	4.98	5.39	34.6	22.4	21.4

Hardware Setup

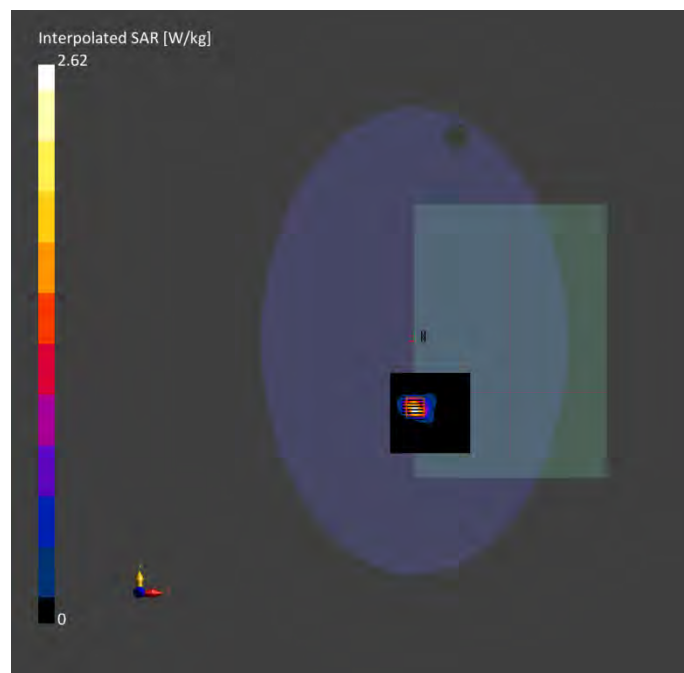
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-08	2025-01-08
psSAR1g [W/kg]	0.573	0.592
psSAR10g [W/kg]	0.189	0.196
Power Drift [dB]	-0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		47.3
Dist 3dB Peak [mm]		6.4



Meas.24 Limbs Plane with Keyboard Side 0mm on 171 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	Custo m Band	CW, 10554- AAE	5855.0, 5855000	4.98	5.39	34.6	22.4	21.4

Hardware Setup

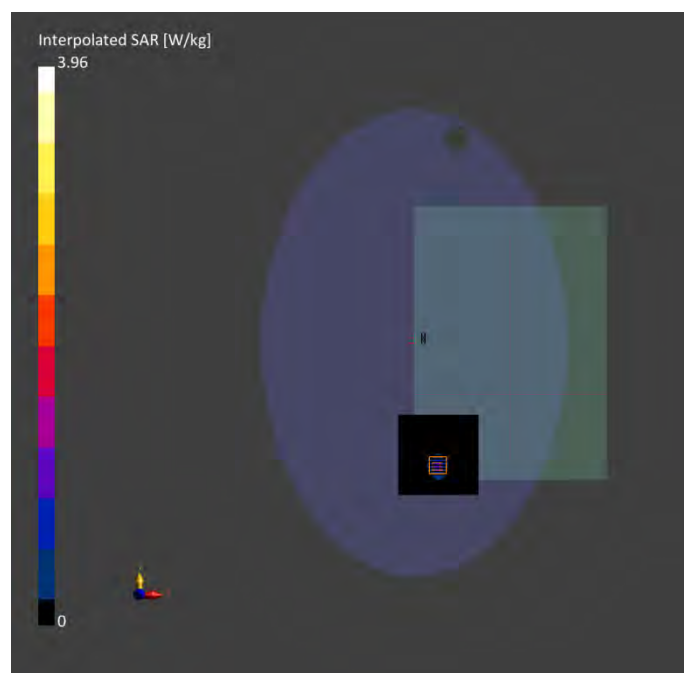
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-01-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	3.0	1.4
Surface [mm]		
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	2025-01-08	2025-01-08
psSAR1g [W/kg]	0.872	0.944
psSAR10g [W/kg]	0.285	0.306
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		6.1



Meas.25 Limbs Plane with Keyboard Side 0mm on 31 Channel in IEEE802.11EHT320 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	U-NII- 5	WLAN, 11026- AAB	6105.0, 31	5.11	5.55	34.3	22.5	21.3

Hardware Setup

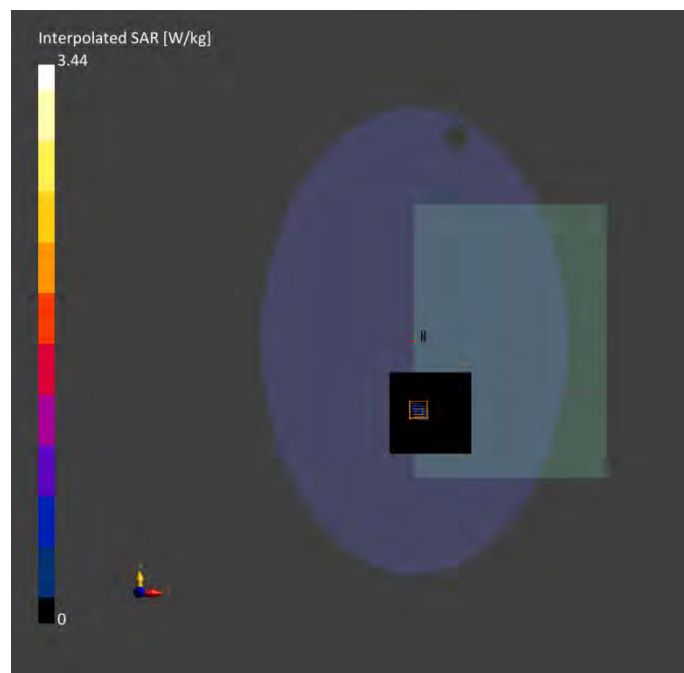
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12- 26	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1710, 2024-01- 03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	27.2 x 27.2 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	All points	All points
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-26	2024-12-26
psSAR1g [W/kg]	0.561	0.713
psSAR10g [W/kg]	0.185	0.226
APD4cm ² [W/m ²]		5.15
Power Drift [dB]	0.06	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.6
Dist 3dB Peak [mm]		5.8



Meas.26 Limbs Plane with Keyboard Side 0mm on 31 Channel in IEEE802.11EHT320 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	U-NII- 5	WLAN, 11026- AAB	6105.0, 31	5.11	5.55	34.3	22.5	21.3

Hardware Setup

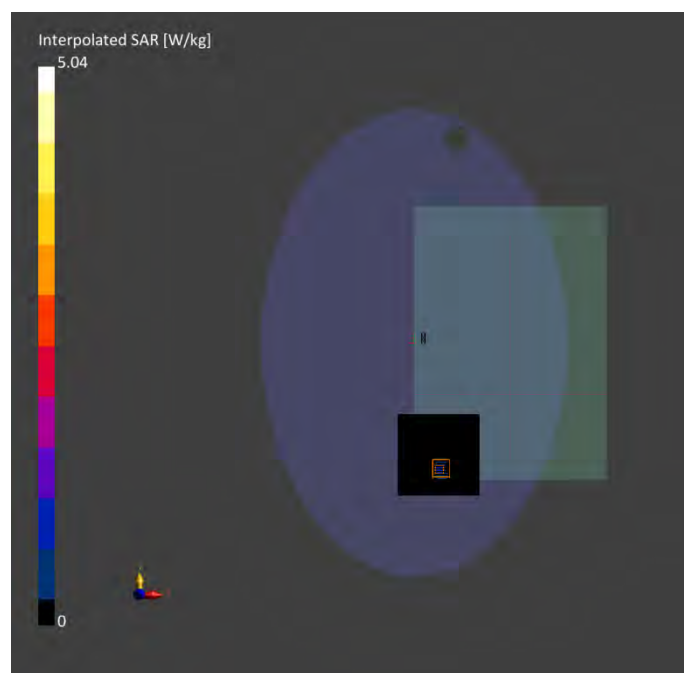
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2024-12- 26	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1710, 2024-01- 03

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	23.8 x 23.8 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor	3.0	1.4
Surface [mm]		
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	2024-12-26	2024-12-26
psSAR1g [W/kg]	0.761	0.998
psSAR10g [W/kg]	0.228	0.282
APD4cm ² [W/m ²]		6.51
Power Drift [dB]	0.04	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.9
Dist 3dB Peak [mm]		5.4



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24C0741-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ24C0741-AS-1.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ24C0741-AC-1.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ24C0741-AT-3.pdf”.

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