

TEST REPORT

Applicant: Xtra Technology LLC
Address: 3422 Old Capitol Trail, Suite 700, Wilmington, DE
19808-6124, USA
Equipment Type: XTRA EDGE PRO
Model Name: XCAMD01
Brand Name: Xtra
FCC ID: 2BQH2-XCAMD01
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Maximum SAR: Head&Body (1 g@5mm): 1.06 W/kg
Limbs (10 g@0mm): 1.46 W/kg
Sample Arrival Date: Jul. 10, 2025
Test Date: Jul. 23, 2025 - Jul. 26, 2025
Date of Issue: Jul. 31, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Guo Guangwei**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 31, 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	Xtra Technology LLC
Address	3422 Old Capitol Trail, Suite 700, Wilmington, DE 19808-6124, USA

2.2 Manufacturer Information

Manufacturer	Xtra Technology LLC
Address	3422 Old Capitol Trail, Suite 700, Wilmington, DE 19808-6124, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	XTRA EDGE PRO
Model Name Under Test	XCAMD01
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0.0
Software Version	01.00.00.00
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery 1	
	Brand Name	N/A
	Model No.	BC2501-1900-3.87
	Serial No.	N/A
	Capacity	1900mAh
	Rated Voltage	3.87V
	Max Charge Voltage	4.45V
Ancillary Equipment 2	Battery 2	
	Brand Name	N/A
	Model No.	ML414H IV01E
	Serial No.	N/A
	Capacity	1.0mAh
	Rated Voltage	3.0V
	Limit Charge Voltage	N/A

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WIFI, Bluetooth	
Frequency Range	802.11b/g	2412 ~ 2462 MHz
	802.11n(HT20)	2412 ~ 2462 MHz
	802.11ax(HE20)	2412 ~ 2462 MHz
	802.11a	5150 ~ 5250 MHz
		5725 ~ 5850 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5725 ~ 5850 MHz
	802.11ac (VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5725 ~ 5850 MHz
	802.11ax (HE20/HE40/HE80)	5150 ~ 5250 MHz
		5725 ~ 5850 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WIFI	Metal Shrapnel Antenna
	Bluetooth	Metal Shrapnel Antenna
DTM	N/A	
Hotspot Function	N/A	
Power Reduction	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/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	KDB 865664 D02 v01r02	RF Exposure Reporting
7	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

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 Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)	
		Head&Body		Limbs		Head&Body	Limbs
		(5mm)		(0mm)		(5mm)	(0mm)
		1g SAR		10g SAR		1g SAR	10g SAR
		Ant.0	Ant.1	Ant.0	Ant.1		
DTS	2.4G WIFI	0.94	0.74	1.16	1.46	1.06	1.46
NII	5.2G WIFI	0.91	0.54	0.57	0.39		
	5.8G WIFI	1.06	1.03	0.96	0.77		
DSS	Bluetooth	0.34	/	0.37	/		
Limit (W/kg)		1.60		4.00		1.60	4.00
Verdict		Pass					

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)	
	Head&Body	Limbs
	(5mm)	(0mm)
	1g SAR	10g SAR
DTS	1.54	2.14
NII	1.59	1.83
DSS	1.59	1.83
Limit (W/kg)	1.60	4.00
Verdict	Pass	

Note: The highest simultaneous SAR please refer section 12.2.

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 1.06 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

The maximum 10 g SAR for the EUT in this report is 1.46 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:

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

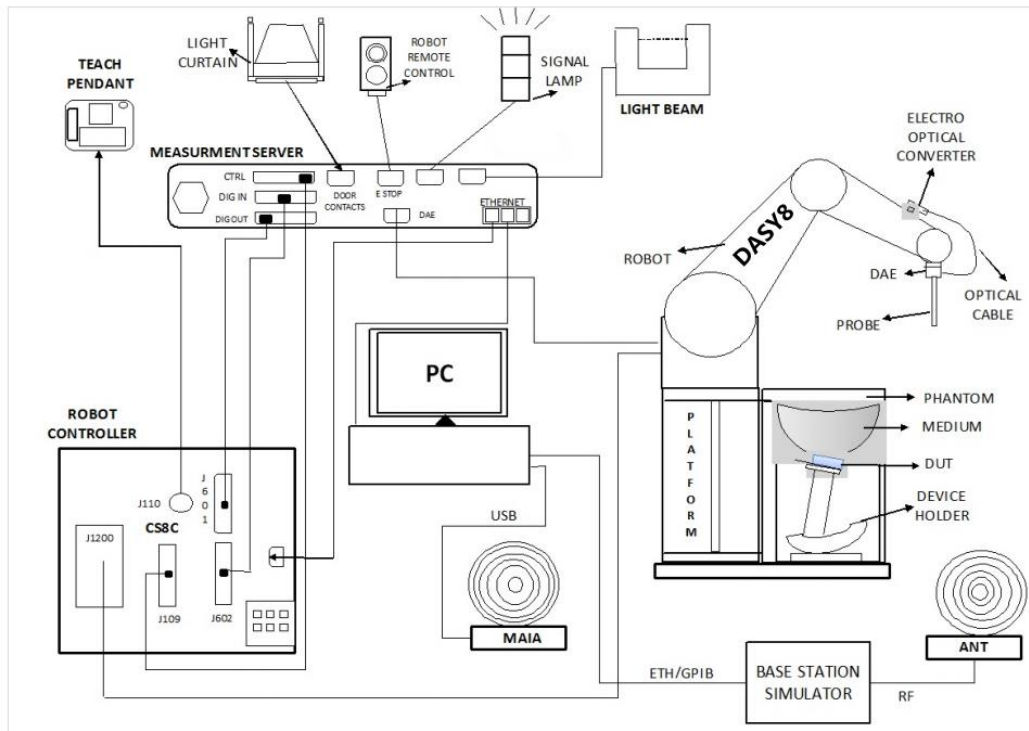
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY5 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. DASY5 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 with following specifications is used.

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

E-Field Probe Calibration Process

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

4.2.4 Data Acquisition Electronics

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



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom

Photo of Phantom SN1859



Serial Number	Material	Length	Height
SN 1859 SAM	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

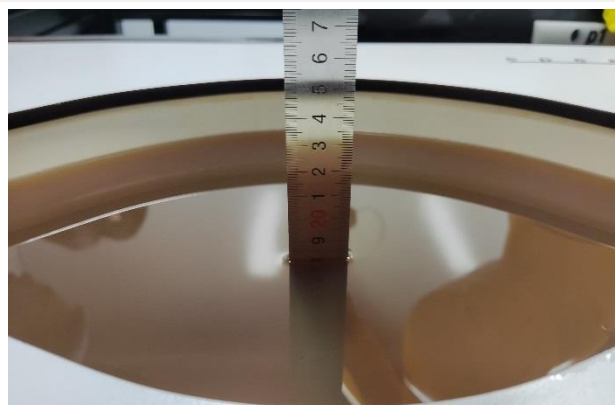
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for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

Head Liquid Depth**Body Liquid Depth**

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	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

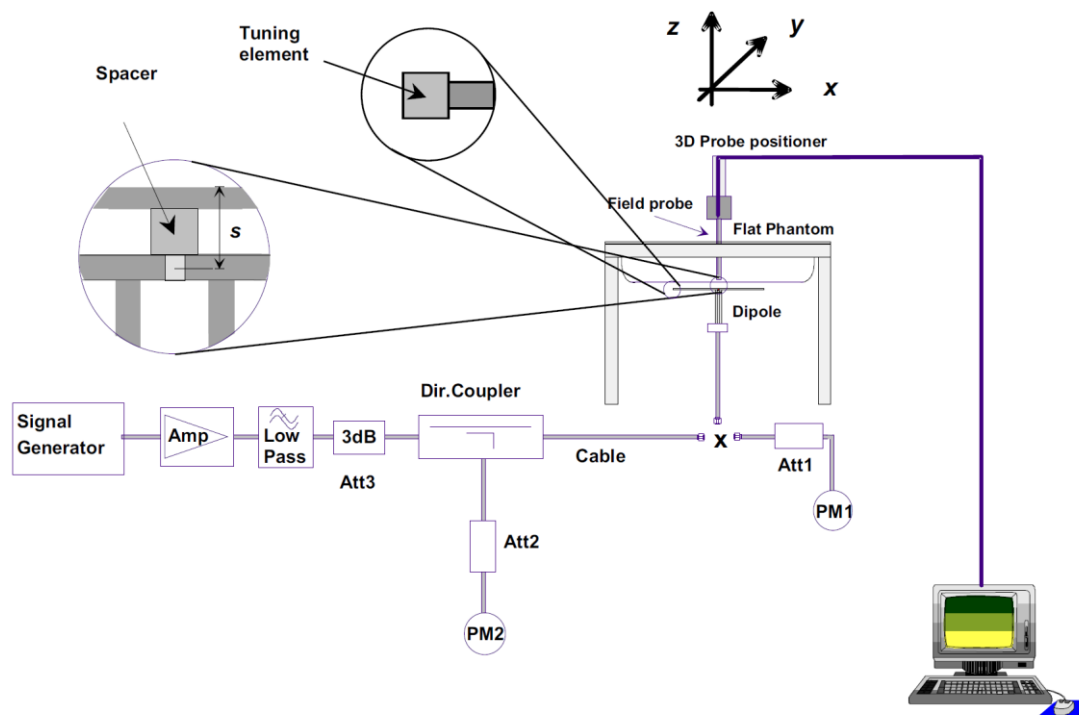
5 SYSTEM VERIFICATION

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

According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head&Body Position Condition

This DUT is a hand-held Sports Camera, it was tested in six different positions. It supports body wearing and use, and will be close to the face during use. So Head & Body SAR is tested SAR with 5mm.

6.2 Limb-Worn Position Condition

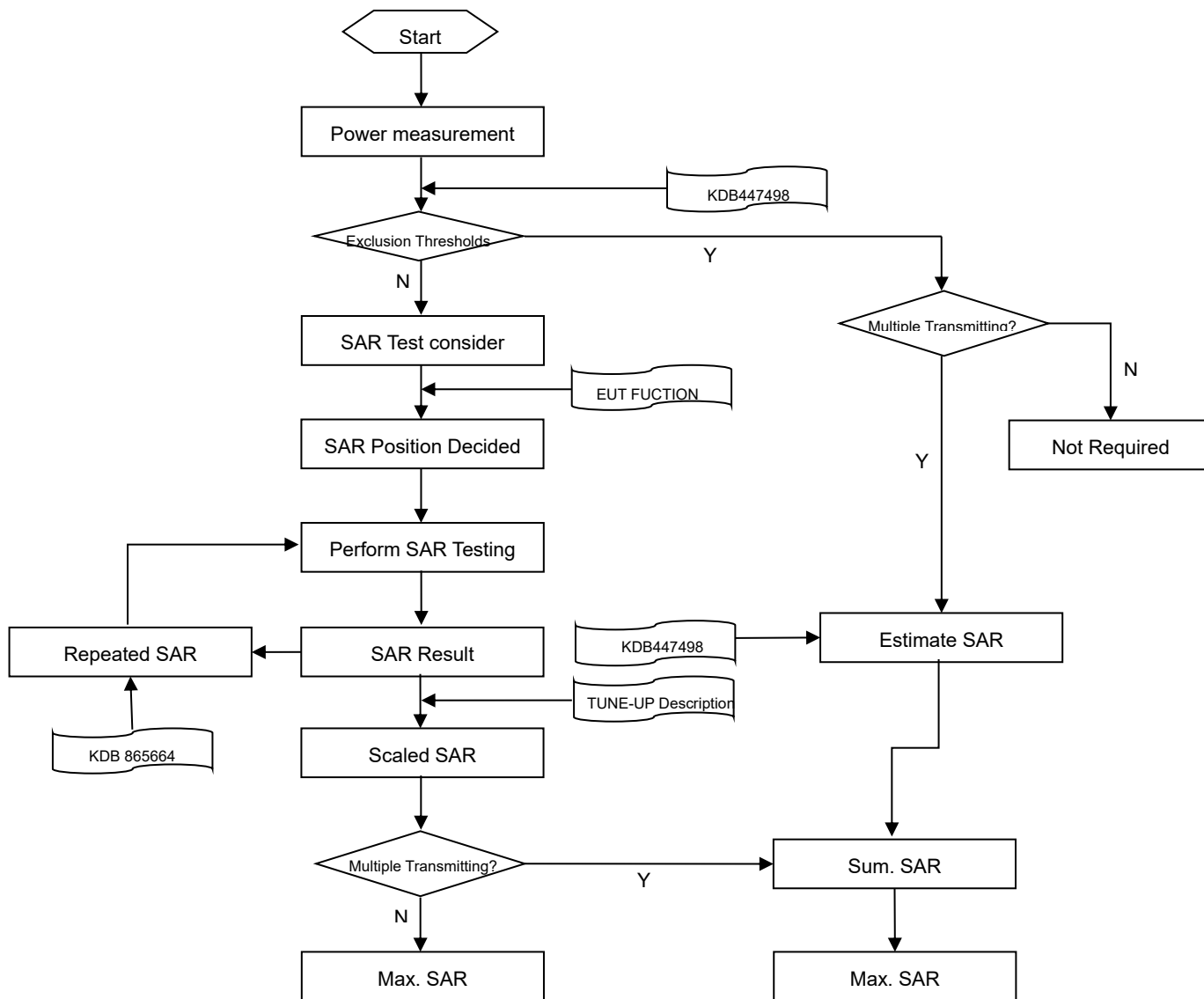
A limb-worn device is a unit whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode). It is similar to a body-worn device.

The strap shall be opened so that it is divided into two parts as shown in below Figure. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom

If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

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

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * 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

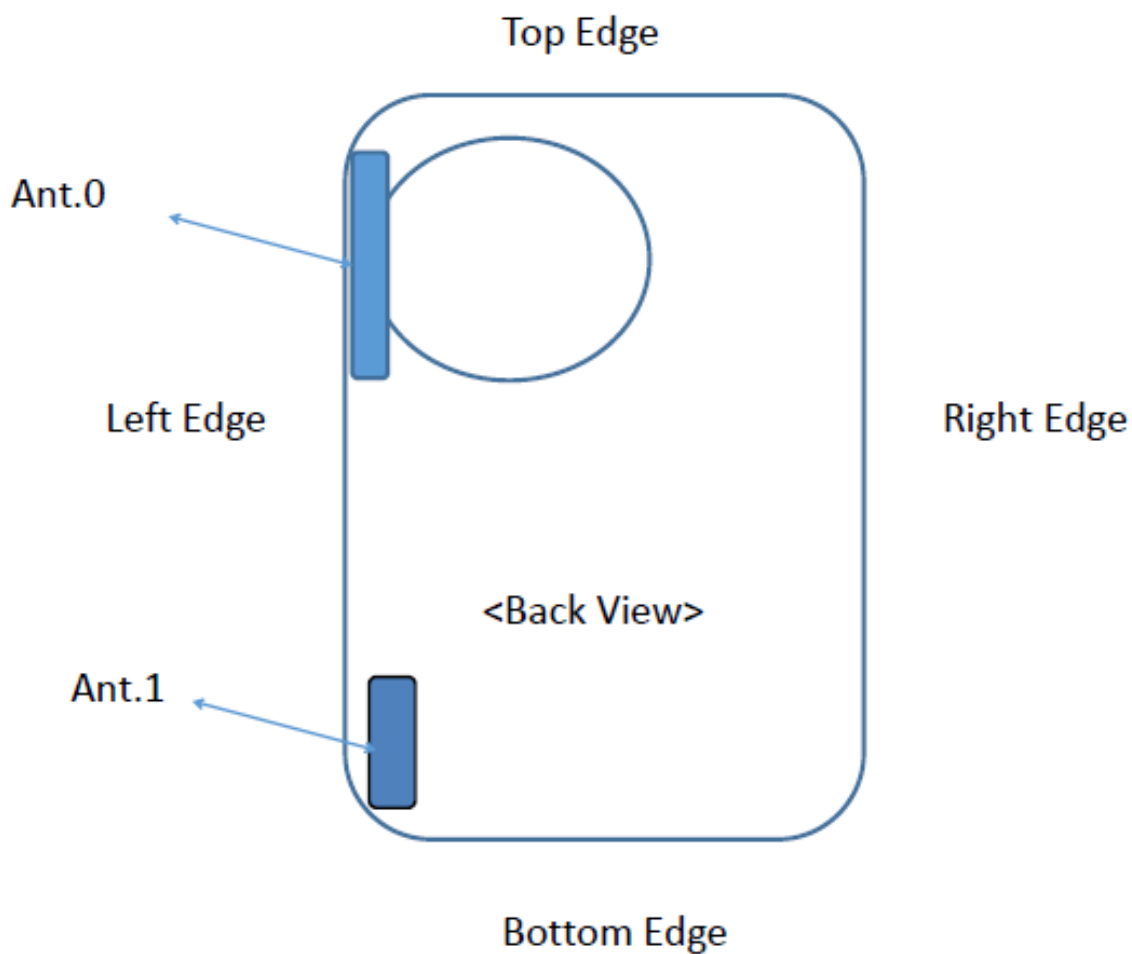
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan 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.

8 CONDUCTED RF OUPUT POWER

Please refer the document “BL-SZ2570543-AP.pdf”.

9 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
Ant.0	WiFi 2.4/5G; Bluetooth
Ant.1	WiFi 2.4/5G

10 TEST RESULT

10.1 Bluetooth

Mode	Antenn a	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&Head														
DH5	Ant.0	Front Side	5	78	2480	-0.16	0.014	12.46	13.00	1.133	76.30	1.311	0.021	/
		Back Side	5	78	2480	-0.18	0.005	12.46	13.00	1.133	76.30	1.311	0.007	/
		Left Edge	5	78	2480	0.06	0.229	12.46	13.00	1.133	76.30	1.311	0.340	1#
		Right Edge	5	78	2480	-0.12	0.006	12.46	13.00	1.133	76.30	1.311	0.009	/
		Top Edge	5	78	2480	-0.04	0.091	12.46	13.00	1.133	76.30	1.311	0.135	/
		Bottom Edge	5	78	2480	0.04	0.009	12.46	13.00	1.133	76.30	1.311	0.013	/
BLE- 1M	Ant.0	Front Side	5	0	2402	0.15	0.006	13.41	14.00	1.145	13.00	7.692	0.053	/
		Back Side	5	0	2402	-0.11	0.004	13.41	14.00	1.145	13.00	7.692	0.035	/
		Left Edge	5	0	2402	-0.14	0.011	13.41	14.00	1.145	13.00	7.692	0.097	/
		Right Edge	5	0	2402	0.16	0.008	13.41	14.00	1.145	13.00	7.692	0.070	/
		Top Edge	5	0	2402	0.18	0.004	13.41	14.00	1.145	13.00	7.692	0.035	/
		Bottom Edge	5	0	2402	-0.04	0.003	13.41	14.00	1.145	13.00	7.692	0.026	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Mode	Antenn a	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Limbs														
DH5	Ant.0	Front Side	0	78	2480	0.02	0.041	12.40	12.50	1.023	76.30	1.311	0.055	/
		Back Side	0	78	2480	0.10	0.024	12.40	12.50	1.023	76.30	1.311	0.032	/
		Left Edge	0	78	2480	0.01	0.273	12.40	12.50	1.023	76.30	1.311	0.366	2#
		Right Edge	0	78	2480	0.09	0.009	12.40	12.50	1.023	76.30	1.311	0.012	/
		Top Edge	0	78	2480	0.02	0.112	12.40	12.50	1.023	76.30	1.311	0.150	/
		Bottom Edge	0	78	2480	0.14	0.004	12.40	12.50	1.023	76.30	1.311	0.005	/
BLE- 1M	Ant.0	Front Side	0	0	2402	0.11	0.006	13.41	14.00	1.145	13.00	7.692	0.053	/
		Back Side	0	0	2402	-0.07	0.003	13.41	14.00	1.145	13.00	7.692	0.026	/
		Left Edge	0	0	2402	-0.14	0.033	13.41	14.00	1.145	13.00	7.692	0.291	/
		Right Edge	0	0	2402	0.09	0.002	13.41	14.00	1.145	13.00	7.692	0.018	/
		Top Edge	0	0	2402	-0.04	0.004	13.41	14.00	1.145	13.00	7.692	0.035	/
		Bottom Edge	0	0	2402	0.05	0.002	13.41	14.00	1.145	13.00	7.692	0.018	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.2WIFI 2.4GHz

Mode	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body&Head														
802.11 b	Ant.0	Front Side	5	1	2412	0.18	0.152	17.61	18.00	1.094	98.56	1.015	0.169	/
		Back Side	5	1	2412	-0.14	0.206	17.61	18.00	1.094	98.56	1.015	0.229	/
		Left Edge	5	1	2412	0.01	0.847	17.61	18.00	1.094	98.56	1.015	0.941	3#
		Right Edge	5	1	2412	-0.08	0.023	17.61	18.00	1.094	98.56	1.015	0.026	/
		Top Edge	5	1	2412	-0.01	0.374	17.61	18.00	1.094	98.56	1.015	0.415	/
		Bottom Edge	5	1	2412	-0.18	0.015	17.61	18.00	1.094	98.56	1.015	0.017	/
		Left Edge	5	6	2437	-0.06	0.722	17.22	18.00	1.197	98.56	1.015	0.877	/
		Left Edge	5	11	2462	-0.17	0.734	17.12	18.00	1.225	98.56	1.015	0.913	/
802.11 b	Ant.1	Front Side	5	1	2412	-0.17	0.163	20.62	21.00	1.091	98.56	1.015	0.181	/
		Back Side	5	1	2412	0.02	0.670	20.62	21.00	1.091	98.56	1.015	0.742	4#
		Left Edge	5	1	2412	-0.03	0.434	20.62	21.00	1.091	98.56	1.015	0.481	/
		Right Edge	5	1	2412	-0.06	0.051	20.62	21.00	1.091	98.56	1.015	0.056	/
		Top Edge	5	1	2412	0.10	0.083	20.62	21.00	1.091	98.56	1.015	0.092	/
		Bottom Edge	5	1	2412	0.16	0.375	20.62	21.00	1.091	98.56	1.015	0.415	/

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

Mode	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Limbs														
802.11 b	Ant.0	Front Side	0	1	2412	-0.10	0.131	17.61	18.00	1.094	98.56	1.015	0.145	/
		Back Side	0	1	2412	-0.15	0.075	17.61	18.00	1.094	98.56	1.015	0.083	/
		Left Edge	0	1	2412	-0.05	1.040	17.61	18.00	1.094	98.56	1.015	1.155	5#
		Right Edge	0	1	2412	0.09	0.026	17.61	18.00	1.094	98.56	1.015	0.029	/
		Top Edge	0	1	2412	-0.10	0.341	17.61	18.00	1.094	98.56	1.015	0.379	/
		Bottom Edge	0	1	2412	0.09	0.011	17.61	18.00	1.094	98.56	1.015	0.012	/
		Left Edge	0	6	2437	-0.02	0.911	17.22	18.00	1.197	98.56	1.015	1.107	/
		Left Edge	0	11	2462	-0.10	0.901	17.12	18.00	1.225	98.56	1.015	1.120	/
802.11 b	Ant.1	Front Side	0	1	2412	-0.08	0.121	20.62	21.00	1.091	98.56	1.015	0.134	/
		Back Side	0	1	2412	-0.08	1.320	20.62	21.00	1.091	98.56	1.015	1.462	6#
		Left Edge	0	1	2412	0.07	0.887	20.62	21.00	1.091	98.56	1.015	0.982	/
		Right Edge	0	1	2412	-0.05	0.067	20.62	21.00	1.091	98.56	1.015	0.074	/
		Top Edge	0	1	2412	-0.18	0.041	20.62	21.00	1.091	98.56	1.015	0.045	/
		Bottom Edge	0	1	2412	-0.06	0.802	20.62	21.00	1.091	98.56	1.015	0.888	/

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

10.3WIFI 5GHz

Fre. Band	Mode	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body&Head															
5.2G	802.11 ac80	Ant.0	Front Side	5	42	5210	0.16	0.028	14.35	15.50	1.303	76.75	1.303	0.048	/
			Back Side	5	42	5210	0.07	0.081	14.35	15.50	1.303	76.75	1.303	0.138	/
			Left Edge	5	42	5210	-0.08	0.598	14.35	15.50	1.303	76.75	1.303	1.015	7#
			Right Edge	5	42	5210	-0.19	0.004	14.35	15.50	1.303	76.75	1.303	0.007	/
			Top Edge	5	42	5210	0.02	0.212	14.35	15.50	1.303	76.75	1.303	0.360	/
			Bottom Edge	5	42	5210	0.13	0.013	14.35	15.50	1.303	76.75	1.303	0.022	/
5.2G	802.11 n40	Ant.1	Front Side	5	46	5230	-0.12	0.062	15.67	16.00	1.079	86.75	1.153	0.077	/
			Back Side	5	46	5230	-0.16	0.468	15.67	16.00	1.079	86.75	1.153	0.582	8#
			Left Edge	5	46	5230	-0.17	0.106	15.67	16.00	1.079	86.75	1.153	0.132	/
			Right Edge	5	46	5230	0.14	0.031	15.67	16.00	1.079	86.75	1.153	0.039	/
			Top Edge	5	46	5230	-0.12	0.004	15.67	16.00	1.079	86.75	1.153	0.005	/
			Bottom Edge	5	46	5230	-0.14	0.211	15.67	16.00	1.079	86.75	1.153	0.263	/
5.8G	802.11 ac80	Ant.0	Front Side	5	155	5775	-0.04	0.021	19.01	19.50	1.119	76.75	1.303	0.031	/
			Back Side	5	155	5775	-0.13	0.177	19.01	19.50	1.119	76.75	1.303	0.258	/
			Left Edge	5	155	5775	-0.09	0.728	19.01	19.50	1.119	76.75	1.303	1.061	9#
			Right Edge	5	155	5775	0.09	0.023	19.01	19.50	1.119	76.75	1.303	0.034	/
			Top Edge	5	155	5775	0.03	0.302	19.01	19.50	1.119	76.75	1.303	0.440	/
			Bottom Edge	5	155	5775	0.03	0.016	19.01	19.50	1.119	76.75	1.303	0.023	/
5.8G	802.11 ac80	Ant.1	Front Side	5	155	5775	0.02	0.078	14.50	15.50	1.259	76.75	1.303	0.128	/
			Back Side	5	155	5775	-0.02	0.626	14.50	15.50	1.259	76.75	1.303	1.027	10#
			Left Edge	5	155	5775	0.19	0.112	14.50	15.50	1.259	76.75	1.303	0.184	/
			Right Edge	5	155	5775	-0.17	0.043	14.50	15.50	1.259	76.75	1.303	0.071	/
			Top Edge	5	155	5775	-0.19	0.174	14.50	15.50	1.259	76.75	1.303	0.285	/
			Bottom Edge	5	155	5775	0.11	0.368	14.50	15.50	1.259	76.75	1.303	0.604	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Fre. Band	Mode	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Limbs															
5.2G	802.11 ac80	Ant.0	Front Side	0	42	5210	-0.01	0.028	14.35	15.50	1.303	76.75	1.303	0.048	/
			Back Side	0	42	5210	-0.01	0.021	14.35	15.50	1.303	76.75	1.303	0.036	/
			Left Edge	0	42	5210	0.15	0.377	14.35	15.50	1.303	76.75	1.303	0.640	11#
			Right Edge	0	42	5210	0.07	0.011	14.35	15.50	1.303	76.75	1.303	0.019	/
			Top Edge	0	42	5210	0.15	0.185	14.35	15.50	1.303	76.75	1.303	0.314	/
			Bottom Edge	0	42	5210	0.04	0.016	14.35	15.50	1.303	76.75	1.303	0.027	/
5.2G	802.11 n40	Ant.1	Front Side	0	46	5230	-0.03	0.039	15.67	16.00	1.079	86.75	1.153	0.049	/
			Back Side	0	46	5230	-0.10	0.334	15.67	16.00	1.079	86.75	1.153	0.416	12#
			Left Edge	0	46	5230	0.01	0.306	15.67	16.00	1.079	86.75	1.153	0.381	/
			Right Edge	0	46	5230	0.12	0.022	15.67	16.00	1.079	86.75	1.153	0.027	/
			Top Edge	0	46	5230	0.04	0.038	15.67	16.00	1.079	86.75	1.153	0.047	/
			Bottom Edge	0	46	5230	0.19	0.238	15.67	16.00	1.079	86.75	1.153	0.296	/
5.8G	802.11 ac80	Ant.0	Front Side	0	155	5775	0.16	0.051	19.01	19.50	1.119	76.75	1.303	0.074	/
			Back Side	0	155	5775	0.01	0.042	19.01	19.50	1.119	76.75	1.303	0.061	/
			Left Edge	0	155	5775	0.04	0.657	19.01	19.50	1.119	76.75	1.303	0.958	13#
			Right Edge	0	155	5775	-0.18	0.012	19.01	19.50	1.119	76.75	1.303	0.017	/
			Top Edge	0	155	5775	0.18	0.355	19.01	19.50	1.119	76.75	1.303	0.518	/
			Bottom Edge	0	155	5775	0.03	0.021	19.01	19.50	1.119	76.75	1.303	0.031	/
5.8G	802.11 ac80	Ant.1	Front Side	0	155	5775	0.02	0.053	14.50	15.50	1.259	76.75	1.303	0.087	/
			Back Side	0	155	5775	-0.03	0.472	14.50	15.50	1.259	76.75	1.303	0.774	14#
			Left Edge	0	155	5775	0.18	0.311	14.50	15.50	1.259	76.75	1.303	0.510	/
			Right Edge	0	155	5775	0.10	0.078	14.50	15.50	1.259	76.75	1.303	0.128	/
			Top Edge	0	155	5775	-0.19	0.133	14.50	15.50	1.259	76.75	1.303	0.218	/
			Bottom Edge	0	155	5775	-0.08	0.341	14.50	15.50	1.259	76.75	1.303	0.559	/
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	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Ratio
2412	802.11b	Ant.0	Body	Left Edge 5mm	0.847	Yes	0.822	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.

Note: For product specific 10g SAR, the highest measured 10g SAR is $1.32 < 2.0$ W/kg, repeated measurement is not required.

12 SIMULTANEOUS TRANSMISSION

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

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body	Limbs
1	WIFI2.4G(Ant.0)+WIFI2.4G(Ant.1)	Yes	Yes	Yes
2	WIFI2.4G(Ant.0)+WIFI5G(Ant.1)	Yes	Yes	Yes
3	WIFI2.4G(Ant.1)+WIFI5G(Ant.0)	Yes	Yes	Yes
4	WIFI5G(Ant.0)+WIFI5G(Ant.1)+BT	Yes	Yes	Yes

Note:

1. WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.

12.2Sum SAR of Simultaneous Transmission

12.2.1 Head&Body Simultaneous Transmission SAR Evaluation

Position	Stand alone SAR					SUM SAR			
	1	2	3	4	5				
	2.4G WIFI (Ant.0)	2.4G WIFI (Ant.1)	Max. 5G WIFI (Ant.0)	Max. 5G WIFI (Ant.1)	BT	1+2	1+4	2+3	3+4+5
Front Side 5mm	0.169	0.181	0.048	0.128	0.053	0.350	0.297	0.229	0.229
Back Side 5mm	0.229	0.742	0.258	1.027	0.035	0.971	1.256	1.000	1.320
Left Edge 5mm	0.941	0.481	1.061	0.184	0.340	1.422	1.125	1.542	1.585
Right Edge 5mm	0.026	0.056	0.034	0.071	0.070	0.082	0.097	0.090	0.175
Top Edge 5mm	0.415	0.092	0.440	0.285	0.135	0.507	0.700	0.532	0.860
Bottom Edge 5mm	0.017	0.415	0.023	0.604	0.026	0.432	0.621	0.438	0.653

Note:

1: The highest Summed 10g SAR is 1.585 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Limbs Simultaneous Transmission SAR Evaluation

Position	Stand alone SAR					SUM SAR			
	1	2	3	4	5				
	2.4G WIFI (Ant.0)	2.4G WIFI (Ant.1)	Max. 5G WIFI (Ant.0)	Max. 5G WIFI (Ant.1)	BT	1+2	1+4	2+3	3+4+5
Front Side 0mm	0.145	0.134	0.074	0.087	0.055	0.279	0.232	0.208	0.216
Back Side 0mm	0.083	1.462	0.061	0.774	0.032	1.545	0.857	1.523	0.867
Left Edge 0mm	1.155	0.982	0.958	0.510	0.366	2.137	1.665	1.940	1.834
Right Edge 0mm	0.029	0.074	0.019	0.128	0.018	0.103	0.157	0.093	0.165
Top Edge 0mm	0.379	0.045	0.518	0.218	0.150	0.424	0.597	0.563	0.886
Bottom Edge 0mm	0.012	0.888	0.031	0.559	0.018	0.900	0.571	0.919	0.608

Note:

1: The highest Summed 10g SAR is 2.137 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	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
Data Acquisition Electronics	Speag	DAE4	SN: 1710	2025/01/20	2026/01/19
E-Field Probe	Speag	EX3DV4	SN: 7664	2025/06/30	2026/06/29
Signal Generator	Keysight	N5173B	MY62150163	2024/08/12	2025/08/11
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	EF7239002655	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF7216002974	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	SAM	SN: 1859	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 DAK 3.5

Dielectric Probe Kit.

Head Liquid 1g

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 (%)
2025.07.23	Head	2450	21.2	1.80	39.19	1.80	39.20	0.00	-0.03
2025.07.24	Head	2450	21.3	1.79	39.30	1.80	39.20	-0.56	0.26
2025.07.25	Head	5250	21.3	4.75	34.87	4.71	35.93	0.85	-2.95
2025.07.26	Head	5750	21.2	5.13	35.51	5.22	35.36	-1.72	0.42

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

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

Head Liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.07.23	Head	2450	100	5.520	55.20	52.60	4.94
2025.07.24	Head	2450	100	5.310	53.10	52.60	0.95
2025.07.25	Head	5250	100	8.050	80.50	77.70	3.60
2025.07.26	Head	5750	100	7.630	76.30	77.60	-1.68

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 (%)
2025.07.23	Head	2450	100	2.420	24.20	24.70	-2.02
2025.07.24	Head	2450	100	2.430	24.30	24.70	-1.62
2025.07.25	Head	5250	100	2.090	20.90	22.00	-5.00
2025.07.26	Head	5750	100	2.050	20.50	21.90	-6.39

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

Please refer the document "BL-SZ2570543-ASC.pdf".

ANNEX C TEST DATA

Please refer the document “BL-SZ2570543-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2570543-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2570543-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2570543-AC.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ2570543-AT.pdf”.

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