

TEST REPORT

Applicant: FlexSource
Address: 1250 Shames Drive, Westbury, NY 11590, USA
Equipment Type: smart phone
Model Name: SC6513
Brand Name: Sense Go
FCC ID: 2BWV2-SC6513
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Head (1 g@0mm): 0.21 W/kg
Body-worn (1 g@5mm): 1.28 W/kg
Hotspot (1 g@5mm): 1.28 W/kg
Sample Arrival Date: Jul. 07, 2026
Test Date: Jul. 12, 2026 - Aug. 19, 2026
Date of Issue: Sep. 02, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhang Jiwei**Checked by:** Xu Rui**Approved by:** Liao Jianming
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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 02, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong ☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
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	FlexSource
Address	1250 Shames Drive, Westbury, NY 11590, USA

2.2 Manufacturer Information

Manufacturer	FlexSource
Address	1250 Shames Drive, Westbury, NY 11590, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	smart phone
Model Name Under Test	SC6513
Series Model Name	Sense Go
Description of Model name differentiation	The only differences are appearance, trade name, and model number for trading purposes. (this information provided by the applicant)
Hardware Version	A306_M_V2.0
Software Version	SC6513_v1.0.0_20260609
Dimensions (Approx.)	165*76.8*10.2mm
Weight (Approx.)	193g
EUT ID	CC26050177-001: S01, S02, S09
SN or IMEI Number	CC26050177-001-S01 IMEI 990019122711874
	CC26050177-001-S02 IMEI 990019122711866
	CC26050177-001-S09 IMEI 990019122711825

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery	
	Brand Name	N/A
	Model No.	BTE-4003
	Serial No.	N/A
	Capacitance	Rated: 4000mAh Typical: 4050mAh
	Rated Voltage	3.85 V
	Limited Voltage	4.4 V
	Manufacturer	PHENIX NEW ENERGY(HUIZHOU)CO.,LTD.

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA+ Band 2/4/5 4G Network LTE FDD Band 2/4/5/12/13/17/25/26/66/71 LTE TDD Band 41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, LTE, WIFI, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 4	TX: 1710~1755 MHz	RX: 2110~2115 MHz
	LTE Band 25	TX: 1850~1915 MHz	RX: 1930~1995 MHz
	LTE Band 26	TX: 814~849 MHz	RX: 859~894 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40 /VHT80)	5150 ~ 5250 MHz	
		5725 ~ 5850 MHz	
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	FPC Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		
EUT Type	☒ Production unit	☐ Identical prototype	
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/4G transmitter for near to body exposure conditions.			

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 Std. 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 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

Note: Compared with the EUT of test report AGC16736250901FH01, the changes of the EUT of this report as below:

Changed mode name from SP656DA, SP656DV to SC6513.

RF band updated by hardware and software

----Removed LTE B14.

----Added RF Band: LTE B25, LTE B26, LTE B41.

Battery upgraded from 3000mAh to 4000mAh.

Memorv3G 32G changed to 4G 64G.

Therefore, tests were conducted for the above differences, other test data please refer to report AGC16736250901FH01, which was issued by Attestation of Global Compliance (Shenzhen) Co. Ltd. On Oct. 24,2025.

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 (0mm)	Body-worn (5mm)	Hotspot (5mm)	Head (0mm)	Body-worn (5mm)	Hotspot (5mm)
		1g SAR			1g SAR		
PCE	GSM 850	0.21	/	/	0.21	1.28	1.28
	LTE Band 4	/	1.28	1.28			
	LTE Band 25	0.07	1.19	1.19			
	LTE Band 26	0.12	0.58	0.58			
	LTE Band 41	0.17	0.67	0.67			
DTS	2.4G WIFI	0.05	0.10	0.10			
NII	5.2G WIFI	0.12	0.07	0.07			
	5.8G WIFI	0.09	0.04	0.04			
DSS	Bluetooth	0.03	0.09	0.09			
Limit (W/kg)		1.6			1.6		
Verdict		PASS					
Note: Other test data please refer to report AGC16736250901FH01, which was issued by Attestation of Global Compliance (Shenzhen) Co. Ltd. On Oct. 24,2025.							

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Simultaneous Transmission SAR		
	(W/kg)		
	Head 1g (0mm)	Body-worn 1g (5mm)	Hotspot 1g (5mm)
PCE	0.33	1.38	1.38
DTS	0.26	1.38	1.38
NII	0.33	1.33	1.33
DSS	0.24	1.37	1.37
Limit (W/Kg)		1.60	
Verdict		Pass	

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 1.28 W/kg, which is lower than 1.5 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

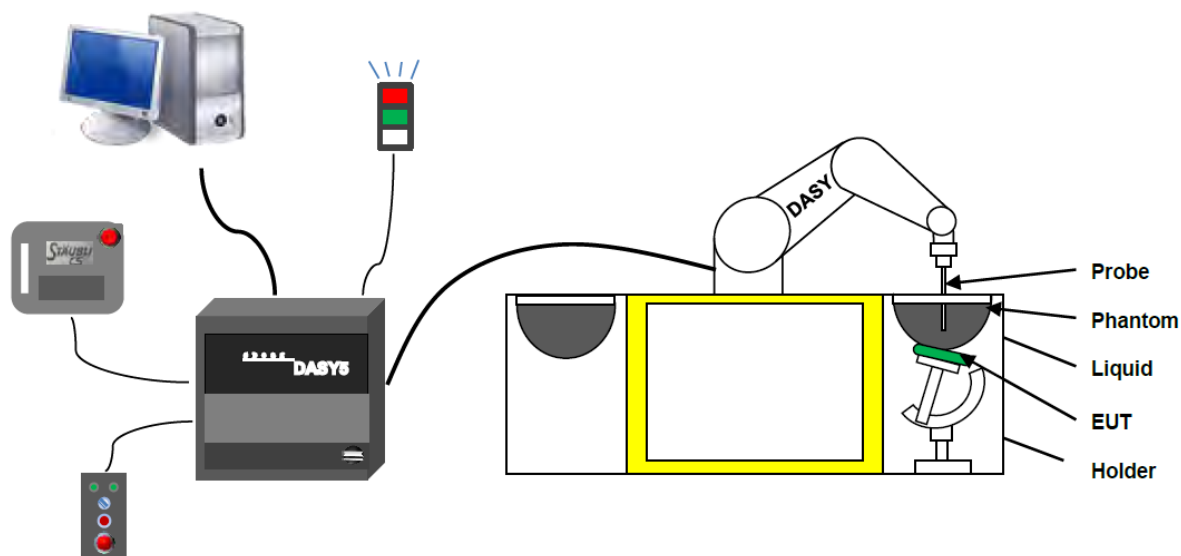
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY5 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 DASY5 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	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
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 CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 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
- 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



4.2.6 Device Holder

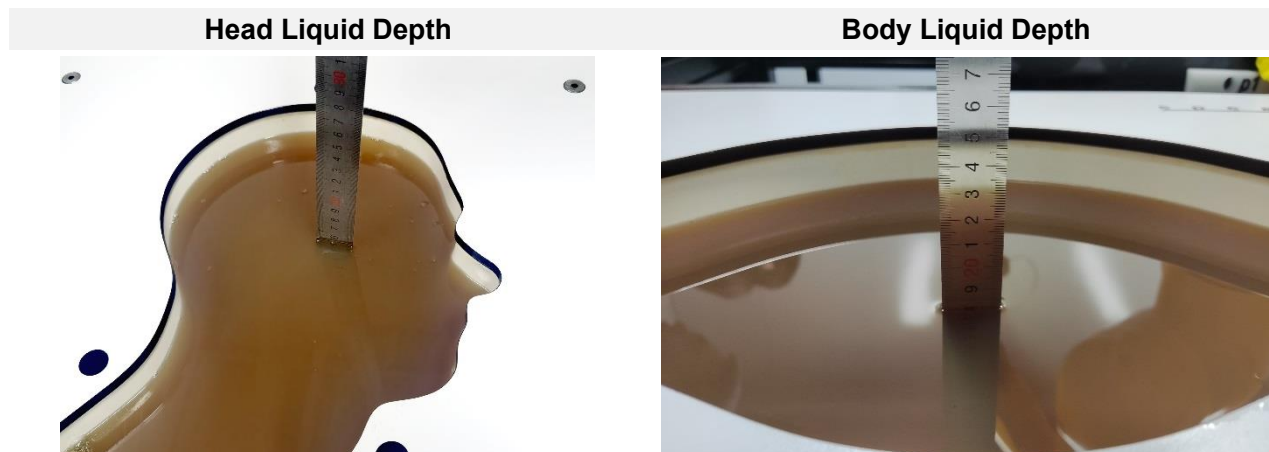
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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.

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

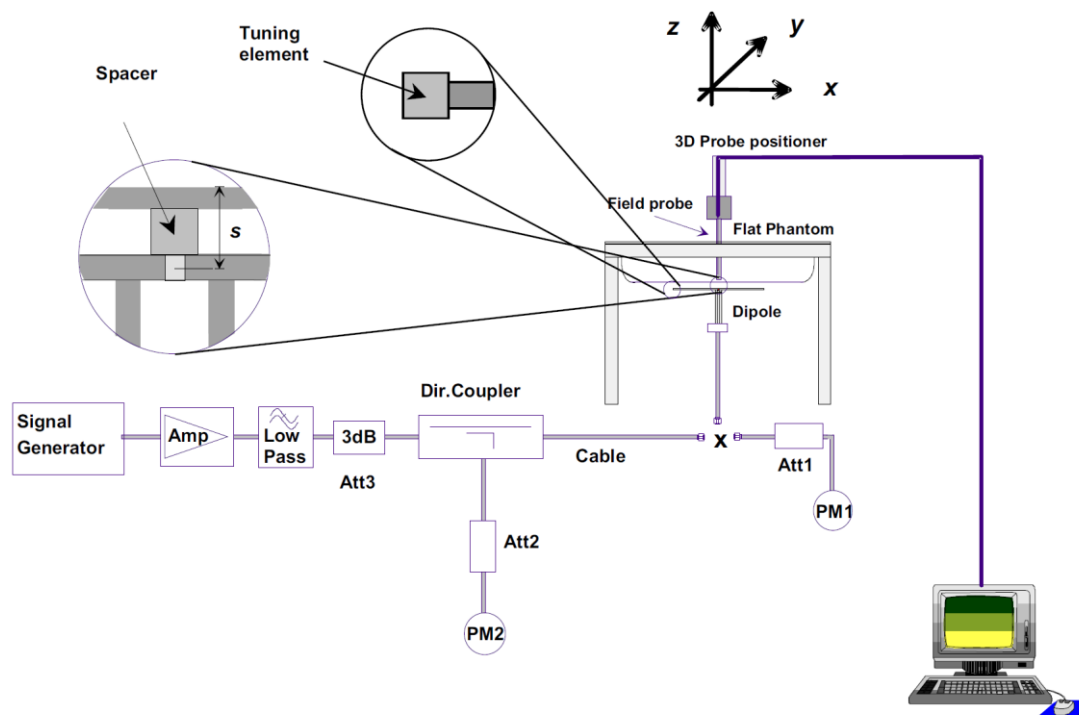
5 SYSTEM VERIFICATION

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

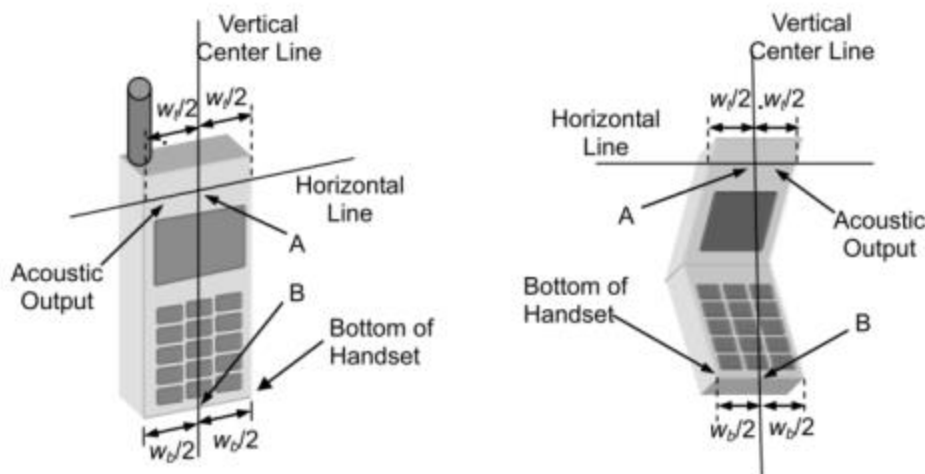
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

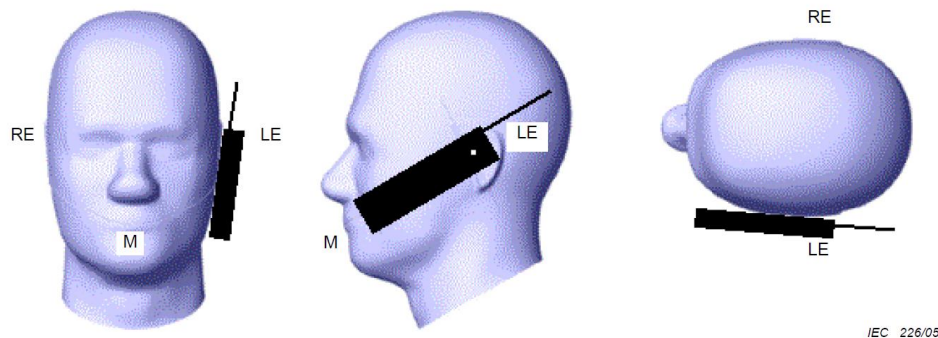
- The vertical center line passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek

of the phantom or until contact with the ear is lost.



IEC 226/05

6.1.3 Tilted Position

- To position the device in the "cheek" position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

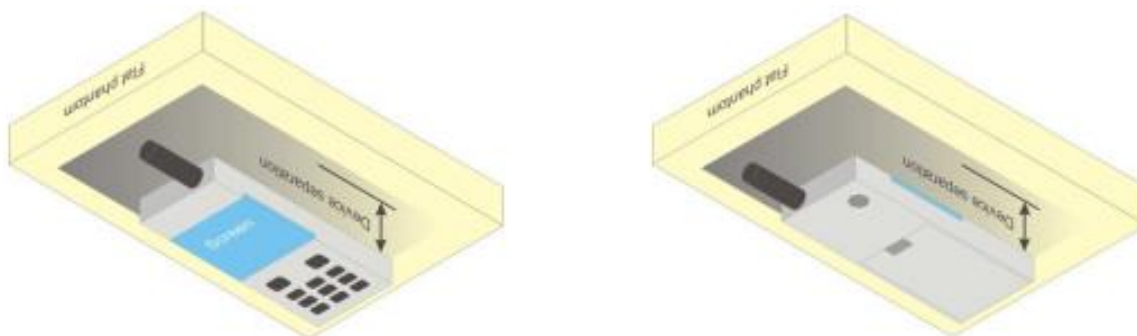


6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

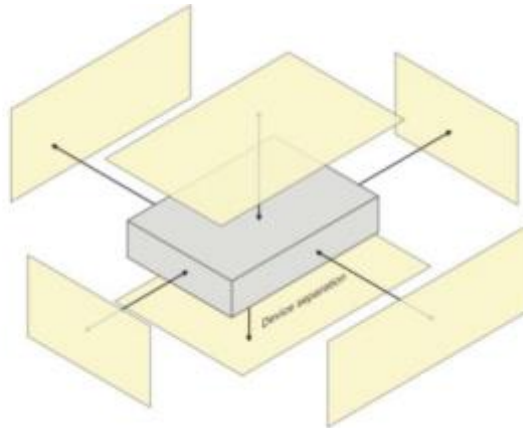
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



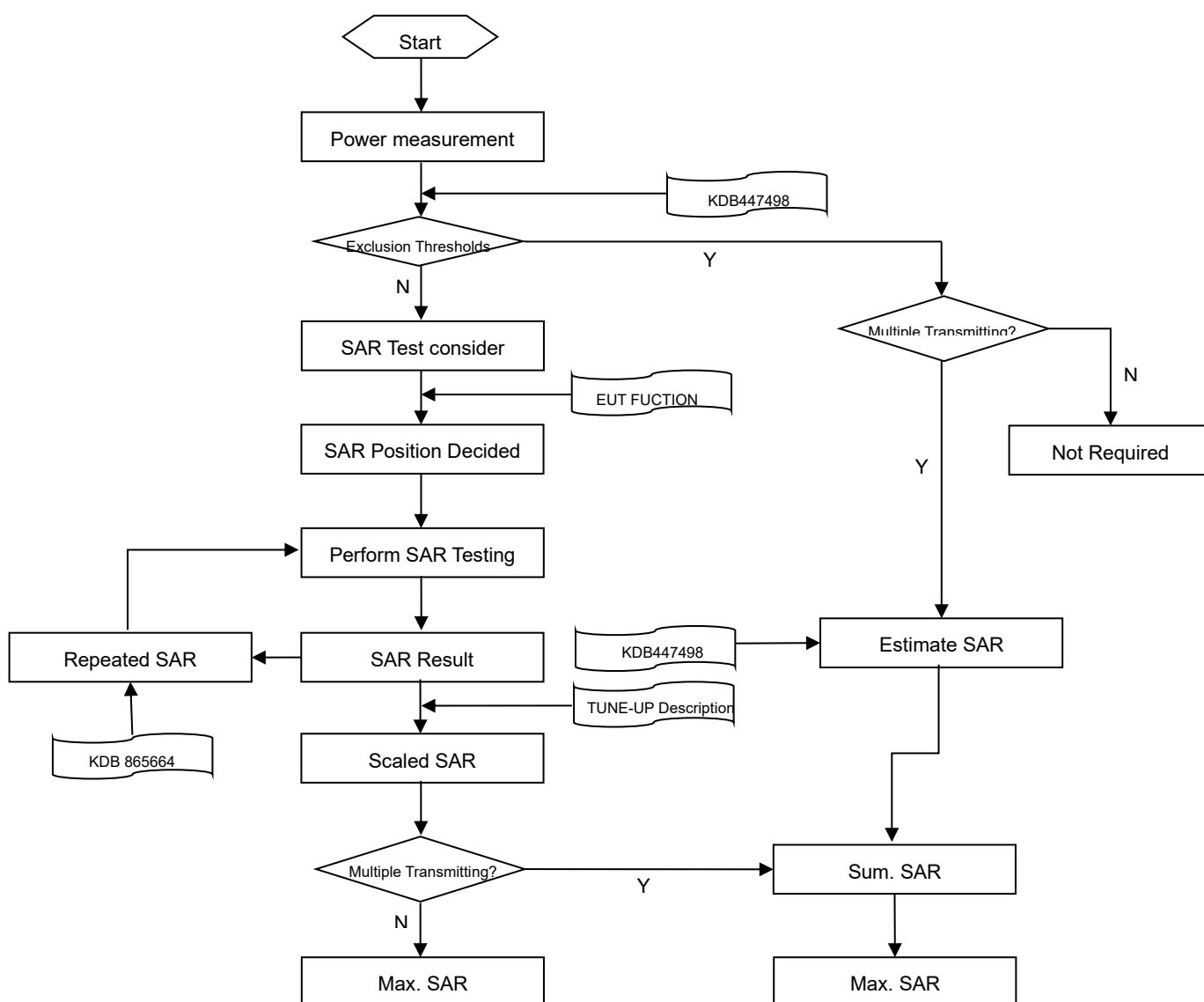
6.4 Product Specific 10g Exposure Consideration

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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
				5–6 GHz: ≤ 2 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

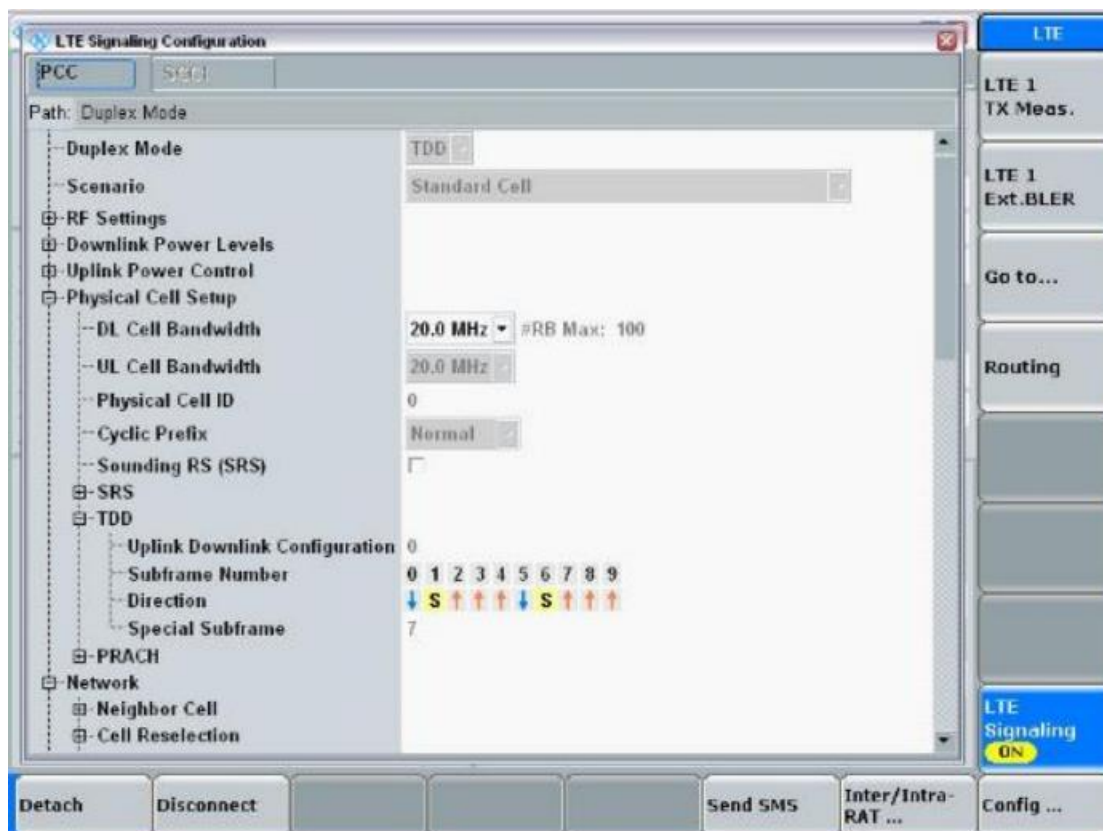
- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating 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

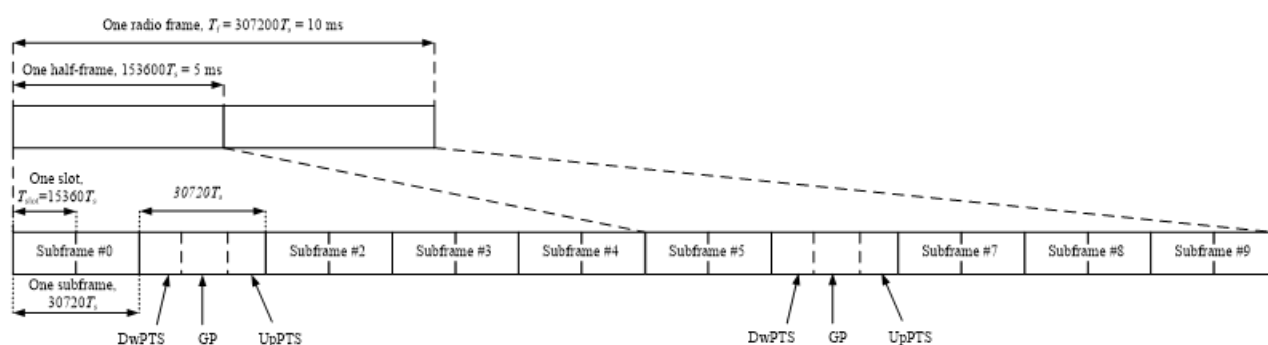
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan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

7.5 LTE (TDD) Considerations

During TDD-LTE SAR testing, the EUT was commanded to transmit on maximum output power and maximum transmitting bandwidth. The uplink and downlink slot configuration as below in one radio frame.



According to 3GPP Per 3GPP TS 36.211. Each radio frame of length ($T_f = 307200 \cdot T_s = 10\text{ms}$) of two half-frames of length ($153600 \cdot T_s = 5\text{ms}$). Each half-frame consists of five sub-frames of length ($30720 \cdot T_s = 1\text{ms}$)



And the special sub-frame with the three fields DwPTS, GP and UpPTS.

The length of DwPTS and UpPTS is given by below table subject to the total length of DwPTS, GP and UpPTS being equal to $30720 \cdot T_s = 1\text{ms}$.

Configuration of special sub-frame (lengths of DwPTS/GP/UpPTS)

Special sub-frame configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21592 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21592 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-	-	-

For special sub-frame uplink time we used the largest cyclic prefix for duty cycle calculate;

Maximum uplink time of one special sub-frame=(largest cyclic prefix)/(one sub-frame of length)* time of one sub-frame= $5120 \cdot T_s / 30720 \cdot T_s \cdot 1\text{ms} = 0.167\text{ms}$

One radio frame with 6 uplink sub-frames and two special sub-frame,

there for the maximum Uplink time in one radio frame is: **$6 \cdot 1\text{ ms} + 2 \cdot 0.167\text{ ms} = 6.334\text{ms}$**

So, the duty cycle for TDD-LTE is: **$6.334\text{ms} / 10\text{ms} = 1: 1.58$**

8 CONDUCTED RF OUTPUT POWER

8.1 Power Reduction List

- 1.This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head.
- 2.When device is making call in head, the power reduction will applied for SAR compliance.
- 3.When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body exposure conditions will trigger the body exposure reduced the power.
- 4.When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.

WWAN Reduced Power Level Table

Reduced level+A9:C12	Receiver state	Transmitting	Antenna	Position
		conditions		
DSI1	On (head scenario)	WWAN Use Only & WWAN + WLAN	Ant.1	Head
DSI2	Off (Body scenario)	WWAN Use Only & WWAN + WLAN	Ant.1	Front Side; Back Side; Left Edge; Right Edge; Top Edge; Bottom Edge

WWAN Antenna Power Table

Mode	Antenna	WWAN Antenna			
		Full Power	Receiver on	Receiver off	
			Head	Body-Worn	Hotspot
			Standalone & Simultaneous transmission	Standalone & Simultaneous transmission	Simultaneous transmission
		Off	DSI1	DSI2	DSI2
LTE Band25	Ant.1	24.00	24.00	18.00	18.00
LTE Band26	Ant.1	24.00	24.00	24.00	24.00
LTE Band41	Ant.1	25.00	25.00	21.50	21.50

8.2 LTE

Please refer the document “Ti-CC26050326-AP.pdf”.

8.3 WIFI

Please refer the document “Ti-CC26050326-AP.pdf”.

8.4 Bluetooth

Please refer the document “Ti-CC26050326-AP.pdf”.

9 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document "Ti-CC26050326-AI EUT internal photo.pdf.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
WWAN Ant.1	<25	<25	<25	<25	>25	<25
BT&WIFI	<25	<25	<25	>25	<25	>25

Note: 1. Per KDB 941225 D06, hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

10 TEST RESULT

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

10.1 Head

Band	DSI State	Antenna	Mode	Position	Dist.(mm)	Bandwidth	Ch.	Freq.(MHz)	RB Size	RB offset	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTE B25	DSI1	ANT1	QPSK	Left Cheek	0	20	26365	1882.5	1	49	0.17	0.058	23.17	24.00	1.211	0.070	1#
LTE B25	DSI1	ANT1	QPSK	Left Tilt	0	20	26365	1882.5	1	49	0.10	0.025	23.17	24.00	1.211	0.030	/
LTE B25	DSI1	ANT1	QPSK	Right Cheek	0	20	26365	1882.5	1	49	0.09	0.036	23.17	24.00	1.211	0.044	/
LTE B25	DSI1	ANT1	QPSK	Right Tilt	0	20	26365	1882.5	1	49	-0.08	0.026	23.17	24.00	1.211	0.031	/
LTE B25	DSI1	ANT1	QPSK	Left Cheek	0	20	26590	1905	50	0	-0.10	0.045	22.24	23.00	1.191	0.054	/
LTE B25	DSI1	ANT1	QPSK	Left Tilt	0	20	26590	1905	50	0	0.04	0.019	22.24	23.00	1.191	0.023	/
LTE B25	DSI1	ANT1	QPSK	Right Cheek	0	20	26590	1905	50	0	0.07	0.027	22.24	23.00	1.191	0.032	/
LTE B25	DSI1	ANT1	QPSK	Right Tilt	0	20	26590	1905	50	0	0.10	0.020	22.24	23.00	1.191	0.024	/
LTE B26	DSI1	ANT1	QPSK	Left Cheek	0	15	26765	821.5	1	37	0.14	0.076	22.91	24.00	1.285	0.098	/
LTE B26	DSI1	ANT1	QPSK	Left Tilt	0	15	26765	821.5	1	37	-0.09	0.038	22.91	24.00	1.285	0.049	/
LTE B26	DSI1	ANT1	QPSK	Right Cheek	0	15	26765	821.5	1	37	0.18	0.095	22.91	24.00	1.285	0.121	2#
LTE B26	DSI1	ANT1	QPSK	Right Tilt	0	15	26765	821.5	1	37	-0.08	0.035	22.91	24.00	1.285	0.045	/
LTE B26	DSI1	ANT1	QPSK	Left Cheek	0	15	26765	821.5	36	0	0.01	0.063	21.40	23.00	1.445	0.091	/
LTE B26	DSI1	ANT1	QPSK	Left Tilt	0	15	26765	821.5	36	0	0.02	0.029	21.40	23.00	1.445	0.042	/
LTE B26	DSI1	ANT1	QPSK	Right Cheek	0	15	26765	821.5	36	0	-0.02	0.073	21.40	23.00	1.445	0.105	/
LTE B26	DSI1	ANT1	QPSK	Right Tilt	0	15	26765	821.5	36	0	-0.09	0.028	21.40	23.00	1.445	0.040	/
LTE B41(PC3)	DSI1	ANT1	QPSK	Left Cheek	0	20	41490	2680	1	49	0.19	0.092	24.71	25.00	1.069	0.098	/
LTE B41(PC3)	DSI1	ANT1	QPSK	Left Tilt	0	20	41490	2680	1	49	0.02	0.043	24.71	25.00	1.069	0.046	/

LTE B41(PC3)	DSI1	ANT1	QPSK	Right Cheek	0	20	41490	2680	1	49	0.16	0.156	24.71	25.00	1.069	0.167	3#
LTE B41(PC3)	DSI1	ANT1	QPSK	Right Tilt	0	20	41490	2680	1	49	-0.03	0.052	24.71	25.00	1.069	0.056	/
LTE B41(PC3)	DSI1	ANT1	QPSK	Left Cheek	0	20	41490	2680	50	25	0.04	0.074	23.61	24.00	1.094	0.081	/
LTE B41(PC3)	DSI1	ANT1	QPSK	Left Tilt	0	20	41490	2680	50	25	0.07	0.033	23.61	24.00	1.094	0.036	/
LTE B41(PC3)	DSI1	ANT1	QPSK	Right Cheek	0	20	41490	2680	50	25	-0.04	0.124	23.61	24.00	1.094	0.136	/
LTE B41(PC3)	DSI1	ANT1	QPSK	Right Tilt	0	20	41490	2680	50	25	0.12	0.029	23.61	24.00	1.094	0.032	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Left Cheek	0	20	41490	2680	1	49	0.11	0.062	24.18	25.00	1.208	0.075	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Left Tilt	0	20	41490	2680	1	49	0.03	0.029	24.18	25.00	1.208	0.035	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Right Cheek	0	20	41490	2680	1	49	0.12	0.102	24.18	25.00	1.208	0.123	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Right Tilt	0	20	41490	2680	1	49	0.07	0.032	24.18	25.00	1.208	0.039	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Left Cheek	0	20	41490	2680	50	25	-0.05	0.052	23.01	24.00	1.256	0.065	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Left Tilt	0	20	41490	2680	50	25	0.04	0.020	23.01	24.00	1.256	0.025	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Right Cheek	0	20	41490	2680	50	25	-0.06	0.080	23.01	24.00	1.256	0.100	/
LTE B41(PC2)	DSI1	ANT1	QPSK	Right Tilt	0	20	41490	2680	50	25	-0.10	0.020	23.01	24.00	1.256	0.025	/

10.2 Body-Worn&Hotspot

Band	DSI State	Antenna	Mode	Position	Dist.(mm)	Bandwidth	Ch.	Freq.(MHz)	RB Size	RB offset	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body-Worn&Hotspot																	
LTE B25	DSI2	ANT1	QPSK	Front Side	5	20	26140	1860	1	49	0.14	0.232	17.89	18.00	1.026	0.238	/
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26140	1860	1	49	0.10	0.953	17.89	18.00	1.026	0.978	/
LTE B25	DSI2	ANT1	QPSK	Left Edge	5	20	26140	1860	1	49	-0.01	0.090	17.89	18.00	1.026	0.092	/
LTE B25	DSI2	ANT1	QPSK	Right Edge	5	20	26140	1860	1	49	-0.10	0.023	17.89	18.00	1.026	0.024	/
LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26140	1860	1	49	0.08	0.901	17.89	18.00	1.026	0.924	/
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26365	1882.5	1	49	-0.05	1.160	17.88	18.00	1.028	1.192	4#
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26590	1905	1	49	0.04	0.965	17.78	18.00	1.052	1.015	/
LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26365	1882.5	1	49	0.09	1.030	17.88	18.00	1.028	1.059	/
LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26590	1905	1	49	-0.11	0.891	17.78	18.00	1.052	0.937	/
LTE B25	DSI2	ANT1	QPSK	Front Side	5	20	26590	1905	50	0	-0.09	0.236	17.64	18.00	1.086	0.256	/
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26590	1905	50	0	-0.08	0.962	17.64	18.00	1.086	1.045	/
LTE B25	DSI2	ANT1	QPSK	Left Edge	5	20	26590	1905	50	0	0.07	0.085	17.64	18.00	1.086	0.092	/
LTE B25	DSI2	ANT1	QPSK	Right Edge	5	20	26590	1905	50	0	0.07	0.027	17.64	18.00	1.086	0.029	/
LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26590	1905	50	0	0.03	0.892	17.64	18.00	1.086	0.969	/
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26140	1860	50	25	-0.07	0.953	17.44	18.00	1.138	1.085	/
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26365	1882.5	50	0	-0.09	0.980	17.52	18.00	1.117	1.095	/
LTE B25	DSI2	ANT1	QPSK	Back Side	5	20	26590	1905	100	0	0.00	0.962	17.54	18.00	1.112	1.070	/
LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26140	1860	50	25	0.06	0.886	17.44	18.00	1.138	1.008	/

LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26365	1882.5	50	0	-0.01	0.910	17.52	18.00	1.117	1.016	/
LTE B25	DSI2	ANT1	QPSK	Bottom Edge	5	20	26590	1905	100	0	0.03	0.883	17.54	18.00	1.112	0.982	/
LTE B26	DSI2	ANT1	QPSK	Front Side	5	15	26765	821.5	1	37	0.03	0.191	22.91	24.00	1.285	0.245	/
LTE B26	DSI2	ANT1	QPSK	Back Side	5	15	26765	821.5	1	37	-0.03	0.450	22.91	24.00	1.285	0.578	5#
LTE B26	DSI2	ANT1	QPSK	Left Edge	5	15	26765	821.5	1	37	0.03	0.170	22.91	24.00	1.285	0.218	/
LTE B26	DSI2	ANT1	QPSK	Right Edge	5	15	26765	821.5	1	37	0.12	0.102	22.91	24.00	1.285	0.131	/
LTE B26	DSI2	ANT1	QPSK	Bottom Edge	5	15	26765	821.5	1	37	0.01	0.218	22.91	24.00	1.285	0.280	/
LTE B26	DSI2	ANT1	QPSK	Front Side	5	15	26765	821.5	36	0	0.10	0.132	21.40	23.00	1.445	0.191	/
LTE B26	DSI2	ANT1	QPSK	Back Side	5	15	26765	821.5	36	0	-0.05	0.321	21.40	23.00	1.445	0.464	/
LTE B26	DSI2	ANT1	QPSK	Left Edge	5	15	26765	821.5	36	0	-0.04	0.123	21.40	23.00	1.445	0.178	/
LTE B26	DSI2	ANT1	QPSK	Right Edge	5	15	26765	821.5	36	0	-0.08	0.074	21.40	23.00	1.445	0.107	/
LTE B26	DSI2	ANT1	QPSK	Bottom Edge	5	15	26765	821.5	36	0	-0.05	0.156	21.40	23.00	1.445	0.225	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Front Side	5	20	41490	2680	1	49	-0.05	0.247	21.27	21.50	1.054	0.260	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Back Side	5	20	41490	2680	1	49	0.07	0.493	21.27	21.50	1.054	0.520	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Left Edge	5	20	41490	2680	1	49	0.14	0.180	21.27	21.50	1.054	0.190	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Right Edge	5	20	41490	2680	1	49	0.02	0.015	21.27	21.50	1.054	0.016	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Bottom Edge	5	20	41490	2680	1	49	0.02	0.638	21.27	21.50	1.054	0.672	6#
LTE B41(PC3)	DSI2	ANT1	QPSK	Front Side	5	20	41490	2680	50	25	0.04	0.234	20.97	21.50	1.130	0.264	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Back Side	5	20	41490	2680	50	25	-0.06	0.478	20.97	21.50	1.130	0.540	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Left Edge	5	20	41490	2680	50	25	-0.07	0.169	20.97	21.50	1.130	0.191	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Right Edge	5	20	41490	2680	50	25	-0.11	0.013	20.97	21.50	1.130	0.015	/
LTE B41(PC3)	DSI2	ANT1	QPSK	Bottom Edge	5	20	41490	2680	50	25	0.04	0.581	20.97	21.50	1.130	0.657	/

LTE B41(PC2)	DSI2	ANT1	QPSK	Front Side	5	20	41490	2680	1	49	0.09	0.165	21.09	21.50	1.099	0.181	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Back Side	5	20	41490	2680	1	49	0.00	0.321	21.09	21.50	1.099	0.353	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Left Edge	5	20	41490	2680	1	49	0.10	0.116	21.09	21.50	1.099	0.127	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Right Edge	5	20	41490	2680	1	49	0.10	0.010	21.09	21.50	1.099	0.011	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Bottom Edge	5	20	41490	2680	1	49	0.04	0.420	21.09	21.50	1.099	0.462	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Front Side	5	20	41490	2680	50	50	-0.04	0.164	20.95	21.50	1.135	0.186	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Back Side	5	20	41490	2680	50	50	0.05	0.320	20.95	21.50	1.135	0.363	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Left Edge	5	20	41490	2680	50	50	0.09	0.115	20.95	21.50	1.135	0.131	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Right Edge	5	20	41490	2680	50	50	-0.02	0.010	20.95	21.50	1.135	0.011	/
LTE B41(PC2)	DSI2	ANT1	QPSK	Bottom Edge	5	20	41490	2680	50	50	0.00	0.401	20.95	21.50	1.135	0.455	/

10.3WIFI

WIFI 2.4GHz															
Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max. tune- power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.	
Head															
WIFI	802.11 b	Left Cheek	0	11	2462	-0.07	0.028	5.46	6.00	1.132	99.57	1.004	0.032	/	
	802.11 b	Left Tilt	0	11	2462	-0.11	0.020	5.46	6.00	1.132	99.57	1.004	0.023	/	
	802.11 b	Right Cheek	0	11	2462	0.09	0.045	5.46	6.00	1.132	99.57	1.004	0.051	7#	
	802.11 b	Right Tilt	0	11	2462	0.02	0.043	5.46	6.00	1.132	99.57	1.004	0.049	/	
Body-Worn&Hotspot															
WIFI	802.11 b	Front Side	5	11	2462	-0.03	0.016	5.46	6.00	1.132	99.57	1.004	0.018	/	
	802.11 b	Back Side	5	11	2462	0.08	0.091	5.46	6.00	1.132	99.57	1.004	0.103	8#	
	802.11 b	Left Edge	5	11	2462	-0.06	0.048	5.46	6.00	1.132	99.57	1.004	0.055	/	
	802.11 b	Top Edge	5	11	2462	0.11	0.031	5.46	6.00	1.132	99.57	1.004	0.035	/	
WIFI 5GHz															
Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max. tune- power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
WIFI	5.2G	802.11ac80	Left Cheek	0	42	5210	-0.06	0.078	6.06	7.00	1.242	88.08	1.135	0.110	/
	5.2G	802.11ac80	Left Tilt	0	42	5210	0.14	0.049	6.06	7.00	1.242	88.08	1.135	0.069	/
	5.2G	802.11ac80	Right Cheek	0	42	5210	0.05	0.083	6.06	7.00	1.242	88.08	1.135	0.117	9#
	5.2G	802.11ac80	Right Tilt	0	42	5210	0.03	0.053	6.06	7.00	1.242	88.08	1.135	0.075	/
WIFI	5.8G	802.11ac80	Left Cheek	0	155	5775	0.12	0.059	5.08	6.00	1.236	88.08	1.135	0.083	/
	5.8G	802.11ac80	Left Tilt	0	155	5775	-0.04	0.054	5.08	6.00	1.236	88.08	1.135	0.075	/
	5.8G	802.11ac80	Right Cheek	0	155	5775	0.09	0.065	5.08	6.00	1.236	88.08	1.135	0.090	10#
	5.8G	802.11ac80	Right Tilt	0	155	5775	0.06	0.048	5.08	6.00	1.236	88.08	1.135	0.068	/
Body-Worn&Hotspot															
WIFI	5.2G	802.11ac80	Front Side	5	42	5210	0.06	0.010	6.06	7.00	1.242	88.08	1.135	0.014	/

	5.2G	802.11ac80	Back Side	5	42	5210	0.09	0.041	6.06	7.00	1.242	88.08	1.135	0.058	/
	5.2G	802.11ac80	Left Edge	5	42	5210	-0.08	0.047	6.06	7.00	1.242	88.08	1.135	0.066	11#
	5.2G	802.11ac80	Top Edge	5	42	5210	0.13	0.028	6.06	7.00	1.242	88.08	1.135	0.039	/
WIFI	5.8G	802.11ac80	Front Side	5	155	5775	-0.02	0.010	5.08	6.00	1.236	88.08	1.135	0.014	/
	5.8G	802.11ac80	Back Side	5	155	5775	0.09	0.029	5.08	6.00	1.236	88.08	1.135	0.041	12#
	5.8G	802.11ac80	Left Edge	5	155	5775	-0.07	0.023	5.08	6.00	1.236	88.08	1.135	0.032	/
	5.8G	802.11ac80	Top Edge	5	155	5775	0.00	0.015	5.08	6.00	1.236	88.08	1.135	0.021	/

10.5Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max. tune- power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
BT	DH5	Left Cheek	0	78	2480	0.10	0.016	3.34	4.00	1.164	100.00	1.000	0.019	/
	DH5	Left Tilt	0	78	2480	-0.11	0.010	3.34	4.00	1.164	100.00	1.000	0.012	/
	DH5	Right Cheek	0	78	2480	0.03	0.024	3.34	4.00	1.164	100.00	1.000	0.027	13#
	DH5	Right Tilt	0	78	2480	0.05	0.021	3.34	4.00	1.164	100.00	1.000	0.024	/
Body-Worn&Hotspot														
BT	DH5	Front Side	5	78	2480	0.12	0.014	3.34	4.00	1.164	100.00	1.000	0.016	/
	DH5	Back Side	5	78	2480	-0.14	0.080	3.34	4.00	1.164	100.00	1.000	0.093	14#
	DH5	Left Edge	5	78	2480	0.01	0.049	3.34	4.00	1.164	100.00	1.000	0.057	/
	DH5	Top Edge	5	78	2480	0.13	0.026	3.34	4.00	1.164	100.00	1.000	0.030	/

10.6Worst Case

Band	Antenna	Mode	Position	Dist.(mm)	Bandwidth	Ch.	Freq.(MHz)	RB Size	RB offset	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
GSM 850	ANT1	Voice	Right Cheek	0	/	190	836.6	/	/	0.14	0.185	32.25	32.80	1.135	0.210	15#
Body-Worn&Hotspot																
LTE B4	ANT1	QPSK	Back Side	5	20	20300	1745	1	0	0.05	1.180	22.66	23.00	1.081	1.276	16#

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	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1th} Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1745	LTE band 4	Body-Worn&Hotspot	Back Side	1.18	Yes	1.16	1.02
1882.5	LTE band 25	Body-Worn&Hotspot	Back Side	1.16	Yes	1.13	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).

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot
1	WWAN+BT	Yes	Yes	Yes
2	WWAN+2.4GWIFI	Yes	Yes	Yes
3	WWAN+5GWIFI	Yes	Yes	Yes

Note:

1. WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
3. The maximum SAR summation is calculated based on the same configuration and test position.

12.2 Sum SAR of Simultaneous Transmission

Please refer the document "Ti-CC26050326-AST.pdf".

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	DASY5	52.8.8.1222	N/A	N/A
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2024/05/08	2027/05/07
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2024/05/08	2027/05/07
1950MHz Validation Dipole	Speag	D1950V3	SN: 1240	2024/08/22	2027/08/21
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2024/05/08	2027/05/07
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronics	Speag	DAE4	SN: 878	2026/03/23	2027/03/22
Data Acquisition Electronics	Speag	DAE4	SN: 1710	2026/01/12	2027/01/11
E-Field Probe	Speag	EX3DV4	SN: 7607	2025/08/06	2026/08/05
E-Field Probe	Speag	EX3DV4	SN: 7510	2025/11/11	2026/11/10
Signal Generator	Keysight	N5173B	MY62150163	2026/06/22	2027/06/21
Power Meter	R&S	NRVD-B2	835843/014	2026/06/23	2027/06/22
Power Sensor	R&S	NRV-Z4	100381	2026/06/23	2027/06/22
Power Sensor	R&S	NRV-Z2	100211	2026/06/23	2027/06/22
Wireless Communication Test Set	R&S	CMW500	104946	2026/03/24	2027/03/23
Network Analyzer	Agilent	E5071C	MY46103472	2025/08/13	2026/08/12
Network Analyzer	Agilent	E5071C	MY46103472	2026/07/14	2027/07/13
Thermometer	Elitech	RC-4HC	EF7216002985	2025/10/30	2026/10/29
Thermometer	Elitech	RC-4HC	EF720B004811	2025/09/16	2026/09/15
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: 1576	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 an SCLMP Dielectric Probe Kit.

Head Liquid

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 (%)
2026.07.12	Head	835	21.3	0.910	41.562	0.900	41.500	1.11	0.15
2026.07.13	Head	835	21.4	0.891	42.438	0.900	41.500	-1.00	2.26
2026.07.16	Head	1750	21.2	1.351	40.327	1.371	40.080	-1.46	0.62
2026.07.16	Head	1950	21.2	1.416	39.032	1.400	40.000	1.14	-2.42
2026.07.17	Head	1950	21.3	1.378	39.752	1.400	40.000	-1.57	-0.62
2026.07.30	Head	2450	21.3	1.810	39.378	1.800	39.200	0.56	0.45
2026.07.31	Head	2450	21.2	1.783	38.969	1.800	39.200	-0.94	-0.59
2026.08.09	Head	2600	21.4	1.976	38.948	1.964	39.010	0.61	-0.16
2026.08.10	Head	2600	21.3	1.939	39.369	1.964	39.010	-1.27	0.92
2026.08.11	Head	5250	21.2	4.710	35.828	4.706	35.930	0.09	-0.28
2026.08.19	Head	5750	21.3	5.273	35.290	5.219	35.360	1.03	-0.20
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 (%)
2026.07.12	Head	835	100	0.958	9.58	9.74	-1.64
2026.07.13	Head	835	100	0.968	9.68	9.74	-0.62
2026.07.16	Head	1750	100	3.520	35.20	37.00	-4.86
2026.07.16	Head	1950	100	3.980	39.80	41.70	-4.56
2026.07.17	Head	1950	100	4.110	41.10	41.70	-1.44
2026.07.30	Head	2450	100	5.120	51.20	52.60	-2.66
2026.07.31	Head	2450	100	5.350	53.50	52.60	1.71
2026.08.09	Head	2600	100	5.490	54.90	55.90	-1.79
2026.08.10	Head	2600	100	5.560	55.60	55.90	-0.54
2026.08.11	Head	5250	100	7.640	76.40	77.70	-1.67
2026.08.19	Head	5750	100	8.020	80.20	77.60	3.35

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

Please refer the document "Ti-CC26050326-ASC-1.pdf".

ANNEX C TEST DATA

Please refer the document "Ti-CC26050326-ATD.pdf".

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "Ti-CC26050326-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "Ti-CC26050326-AS-1.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "Ti-CC26050326-AC-1.pdf".

ANNEX G TUNE-UP PROCEDURE

Please refer the document "Ti-CC26050326-AT.pdf".

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