

TEST REPORT

Applicant: TECNO MOBILE LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL
CENTRE 19-25 SHAN MEI STREET FOTAN NT
HONGKONG
Equipment Type: Mobile Phone
Model Name: KO2
Brand Name: TECNO
FCC ID: 2ADYY-KO2
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Head (1 g@0mm): 0.88 W/kg
Body-worn (1 g@10mm): 0.47 W/kg
Hotspot (1 g@10mm): 0.47 W/kg
Sample Arrival Date: Aug. 19, 2026
Test Date: Aug. 20, 2026 - Aug. 29, 2026
Date of Issue: Sep. 10, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 10, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

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	TECNO MOBILE LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Manufacturer	TECNO MOBILE LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	KO2
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	CC26080161-001-S15 SAR Test CC26080161-001-S29 Worst case Test CC26080161-001-S13 Output power
Hardware Version	V1.1
Software Version	N/A
Dimensions (Approx.)	L: 167.72mm * W: 79.12mm* H: 7.7mm
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	TECNO
	Model No.	BL-51ET
	Serial No.	N/A
	Rated Capacity	5100 mAh
	Typical Capacity	5200 mAh
	Rated Voltage	3.85 V
	Limit Charge Voltage	4.45 V

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/17/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE1M&2M) 2.4G WIFI 802.11b, 802.11g, 802.11n HT20, 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80), FM, GPS
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM; WCDMA; LTE; WLAN; Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850~1910 MHz	RX: 1930~1990 MHz
	WCDMA Band 4	TX: 1710~1755 MHz	RX: 2110~2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850~1910 MHz	RX: 1930~1990 MHz
	LTE Band 4	TX: 1710~1755 MHz	RX: 2110~2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699-716 MHz	RX: 729~746 MHz
	LTE Band 17	TX: 704-716 MHz	RX: 734~746 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41(120M)	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	5G WIFI	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN	PIFA Antenna	
	WLAN	PIFA Antenna	
	Bluetooth	PIFA Antenna	
Exposure Category	General Population/Uncontrolled exposure		

EUT Type	Portable Device
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3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	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 D05A v01r02	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
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

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

Frequency Band		Maximum Scaled SAR			Maximum Report SAR (W/kg)		
		1 g(W/kg)			1 g(W/kg)		
		Head	Body-worn	Hotspot	Head	Body-worn	Hotspot
		(Separation 0 mm)	(Separation 10 mm)	(Separation 10 mm)	(Separation 0 mm)	(Separation 10 mm)	(Separation 10 mm)
PCE	GSM 850	0.19	0.02	0.02	0.88	0.47	0.47
	GSM 1900	0.79	0.28	0.46			
	WCDMA B2	0.17	0.06	0.08			
	WCDMA B4	0.76	0.23	0.32			
	WCDMA B5	0.14	0.07	0.14			
	LTE B2	0.32	0.10	0.14			
	LTE B5	0.88	0.29	0.34			
	LTE B7	0.69	0.47	0.47			
	LTE B12	0.56	0.17	0.17			
	LTE B66	0.31	0.13	0.15			
	LTE B41	0.51	0.29	0.35			
DTS	2.4G WIFI	0.41	0.21	0.23			
NII	5G WIFI	0.85	0.28	0.29			
DSS	Bluetooth	0.09	0.04	0.04			
Limits (W/kg)		1.6			1.6		
Test Verdict		Pass					
Note1: This device supports LTE B4/B17/B38 and LTE B66/B12/B41. Since the supported frequency span for LTE B4/B17/B38 falls completely within the supports frequency span for LTE B66/B12/B41, these LTE bands share the same transmission path, and LTE B4/B17/B38 have lower or the same target power as LTE B66/B12/B41; Therefore, SAR was only assessed for LTE B66/B12/B41. Note 2: The EUT has two different Memories. All test items were tested on Memory 1(S15), while Memory 2(S29) was validated the worst-case scenario for SAR.							

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)		
	Head	Body-worn	Hotspot
	1g (0mm)	1g (10mm)	1g (10mm)
PCE	1.59	0.79	0.79
Limit (W/Kg)	1.6	1.6	1.6
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 0.88 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

3.5 Decision Rule

- ☐ No Need
- ☒ Use General Conformity Decision Rule
- ☐ Use Special Conformity Decision Rule

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

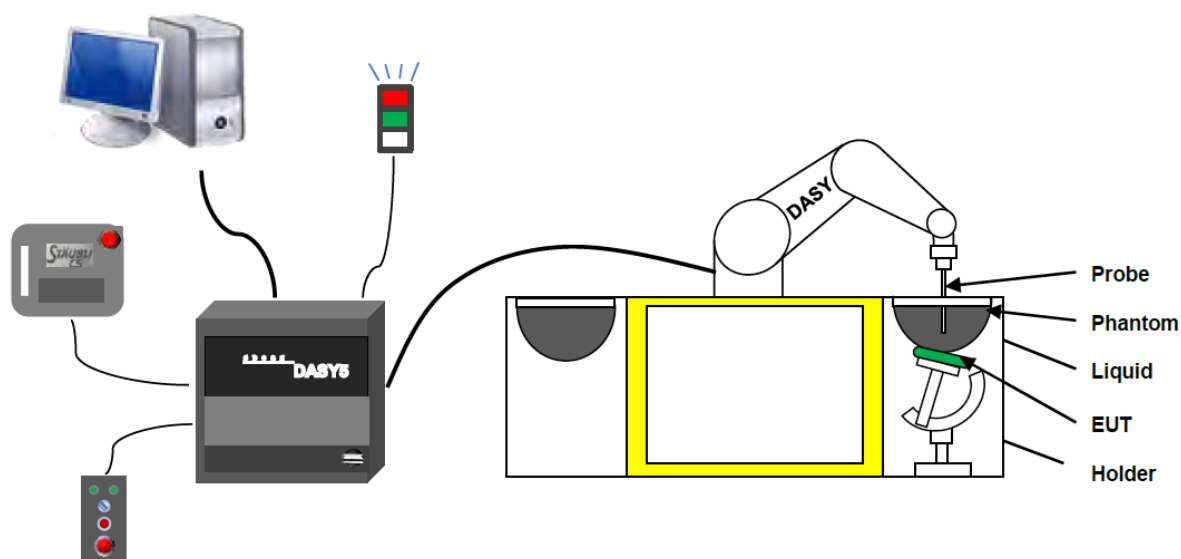
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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

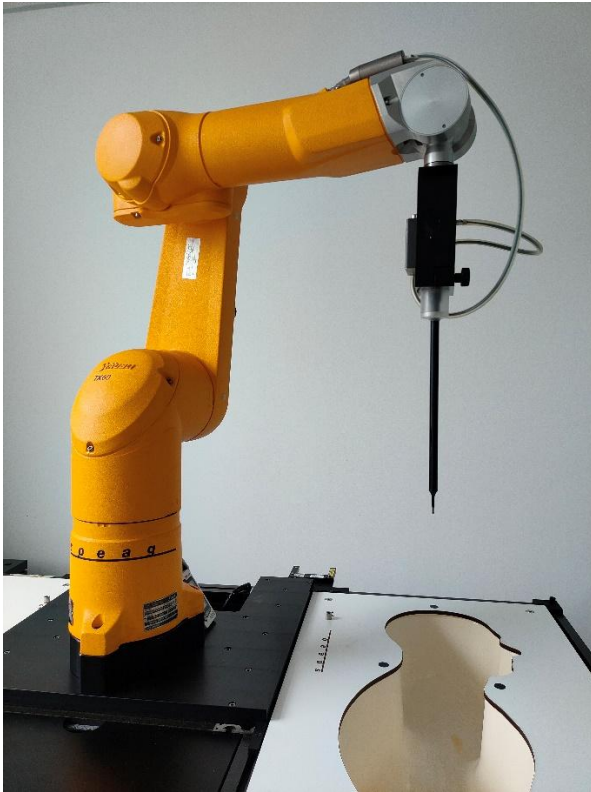


The DASY5 system for performing compliance tests consists of the following items:

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., glycoether)
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

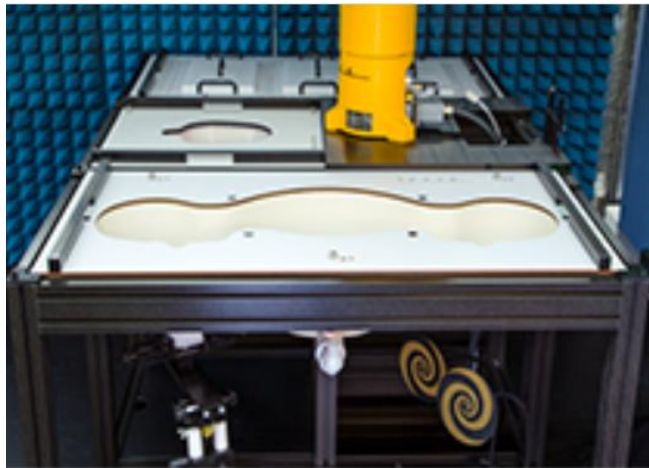
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



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

4.2.6 Device Holder

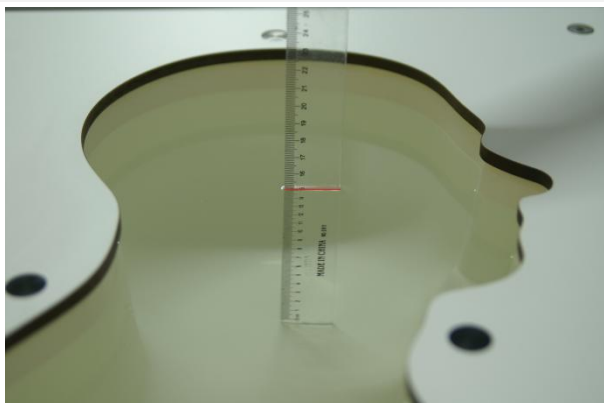
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for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

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

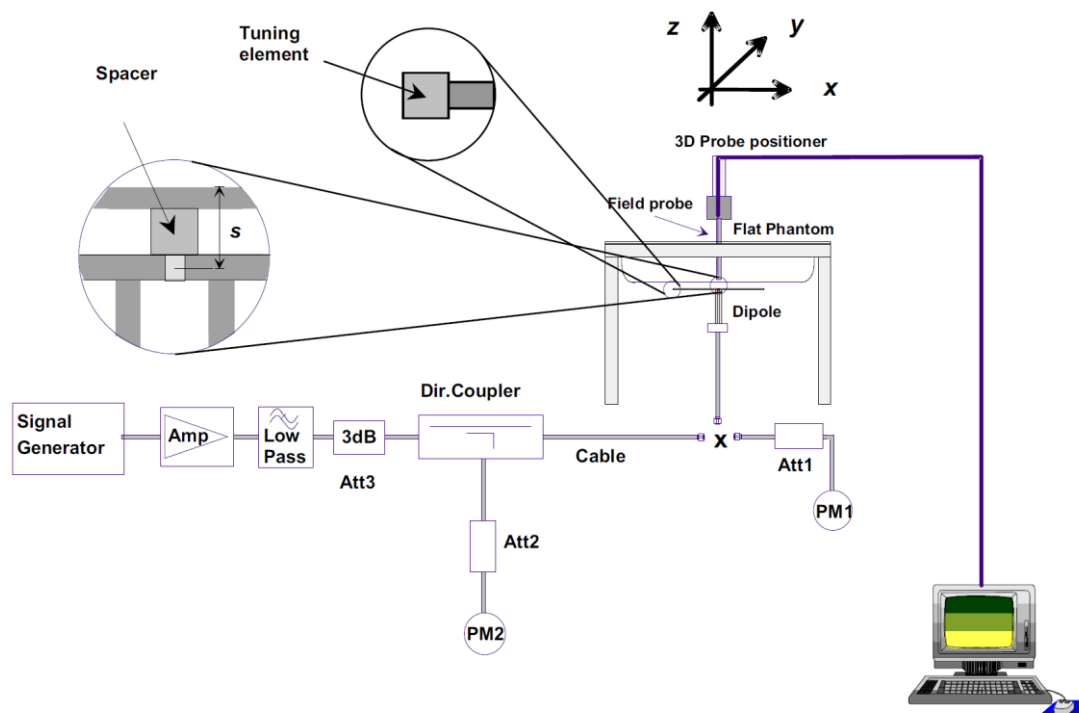
5 SYSTEM VERIFICATION

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

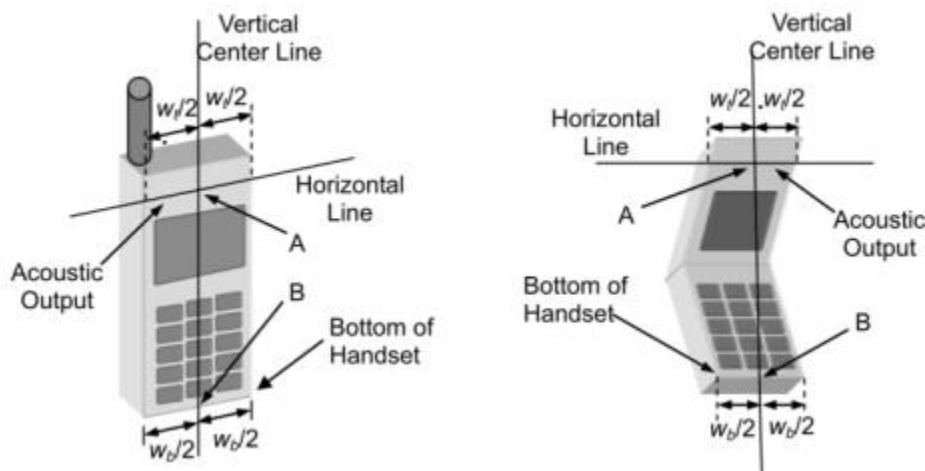
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head 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.

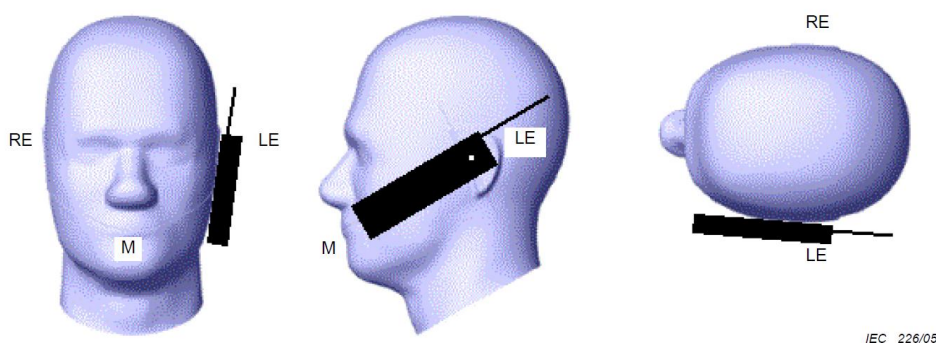
6.1.1 Two Imaginary Lines on the Handset

- 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

- (a) 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.
- (b) 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.



6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) 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.

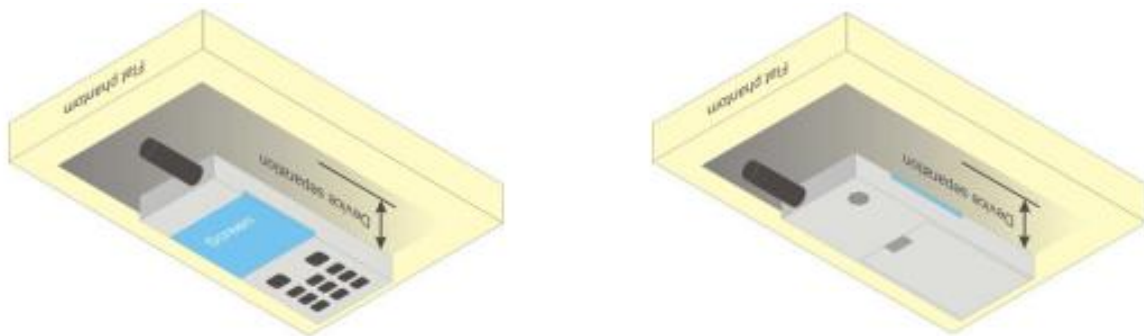


6.2 Body-worn Position Conditions

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.

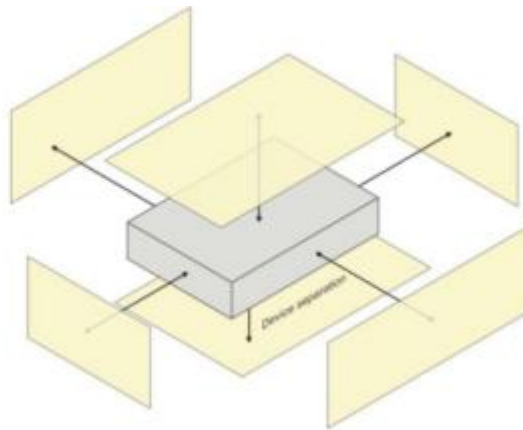
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



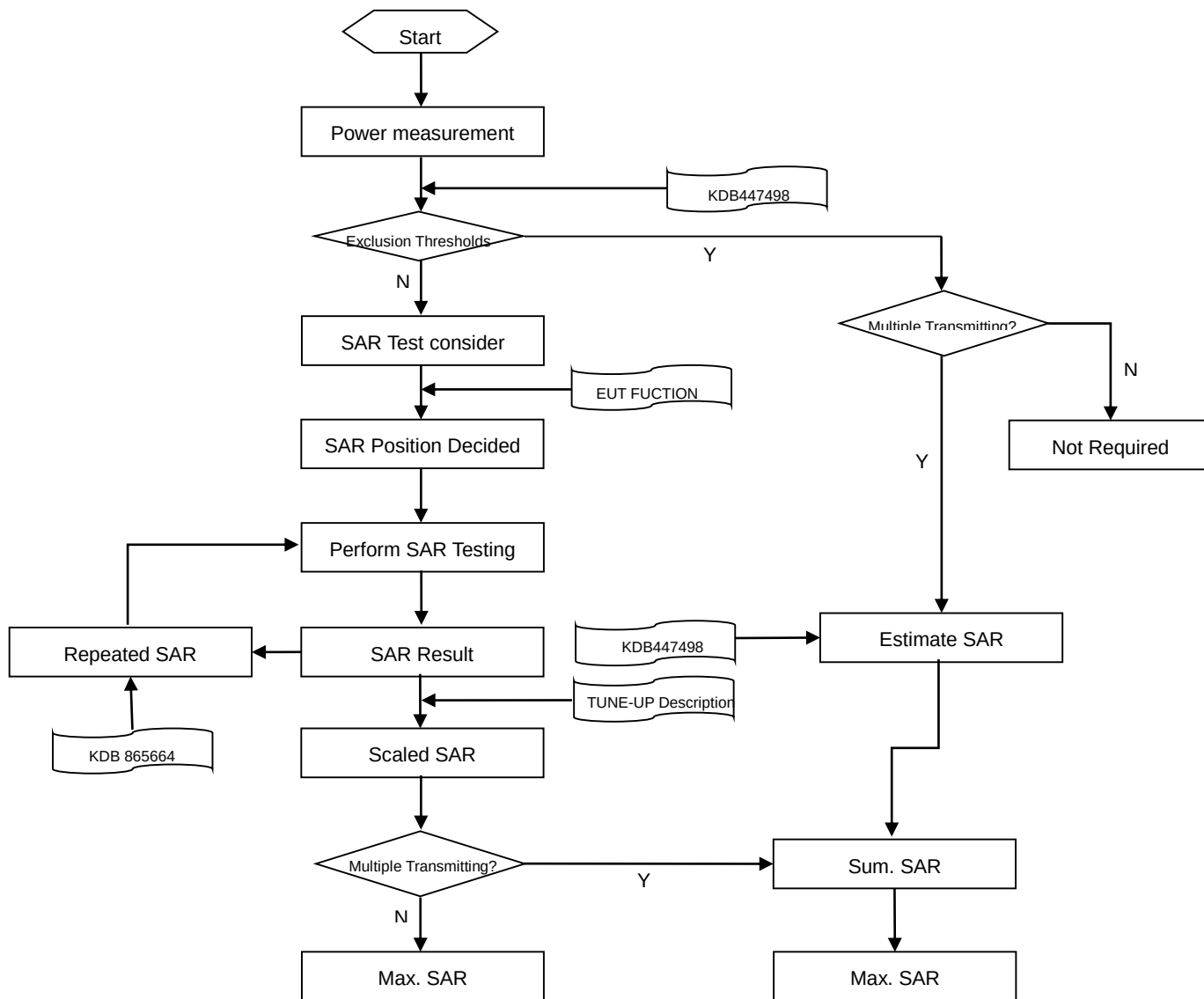
6.4 Product Specific 10g Exposure Consideration

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
		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.

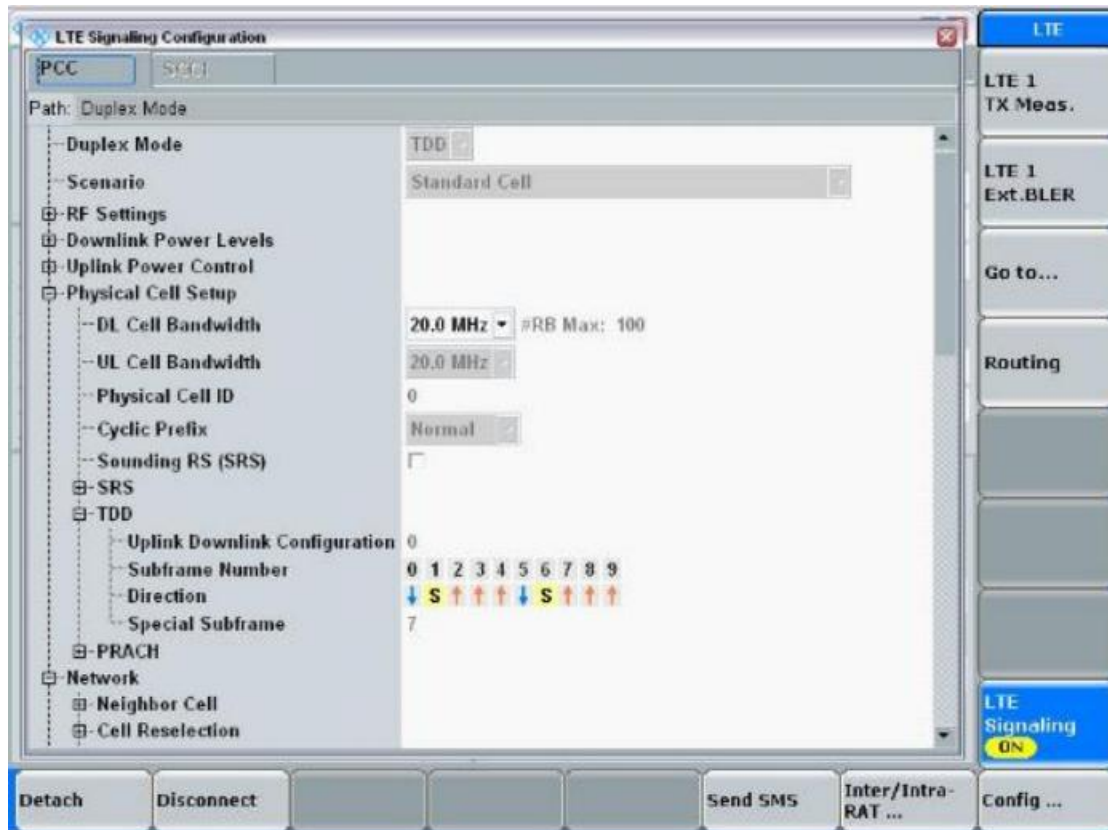
7.4 Area & Zoom Scan Procedure

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.

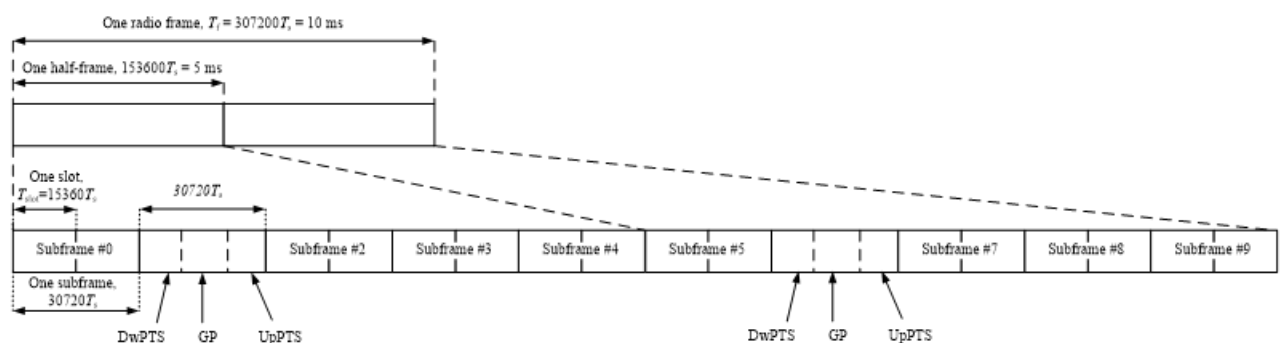
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

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 OUPUT POWER

8.1 GSM

Please refer the document "Ti-CC26080210-AP.pdf".

8.2 WCDMA

Please refer the document "Ti-CC26080210-AP.pdf".

8.3 LTE

Please refer the document "Ti-CC26080210-AP.pdf".

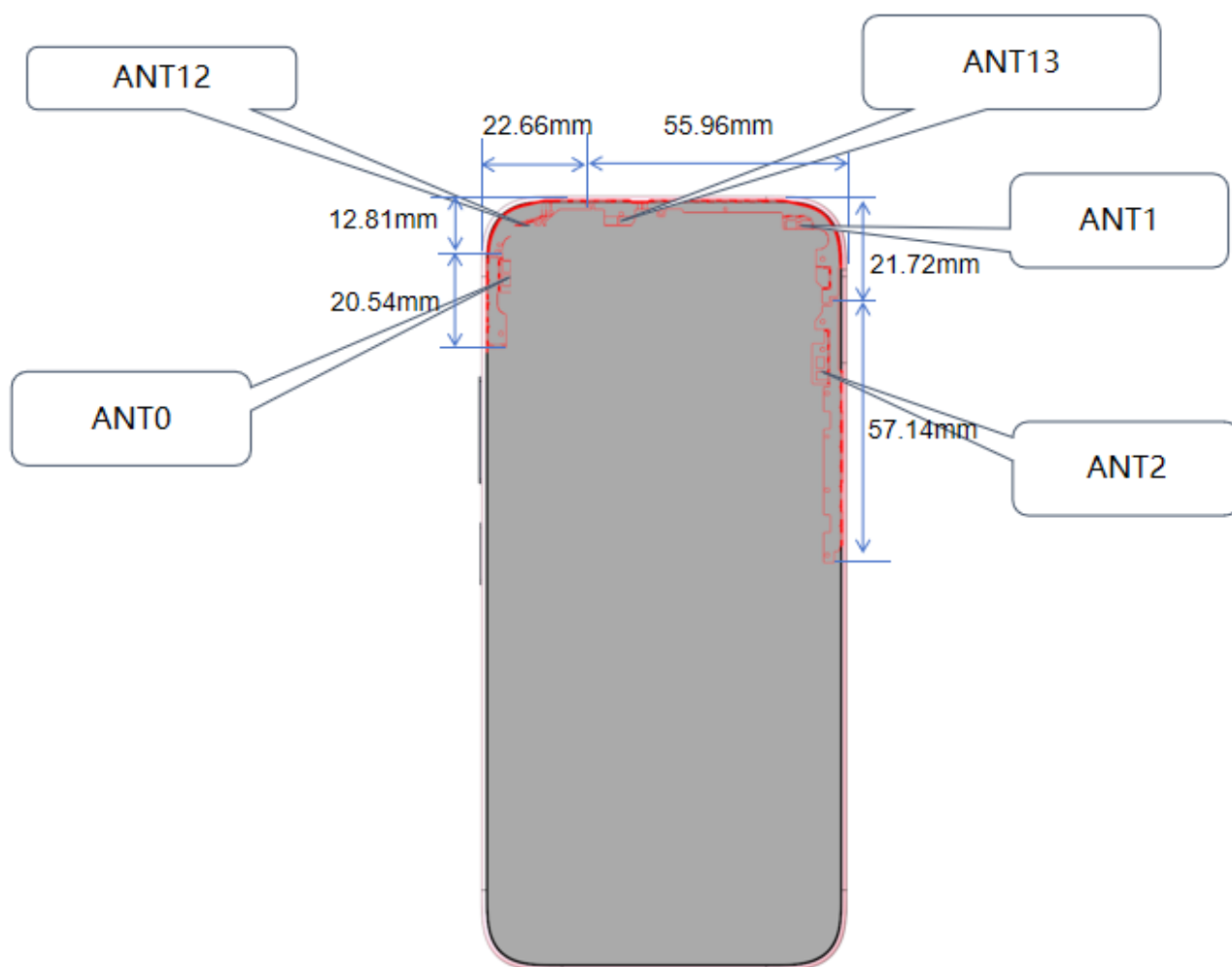
8.4 WIFI

Please refer the document "Ti-CC26080210-AP.pdf".

8.5 Bluetooth

Please refer the document "Ti-CC26080210-AP.pdf".

9 TEST EXCLUSION CONSIDERATION



Antenna	Support Band
ANT1	GSM850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/17/26/38/41/66
ANT0	RX Only
ANT2	RX Only
ANT12	GPS L1 & 2.4G WIFI & BT
ANT13	5G WIFI

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
ANT 1	<25	<25	<25	<25	<25	>25
ANT 12	<25	<25	<25	<25	<25	>25
ANT 13	<25	<25	<25	<25	<25	>25

Note: 1. Per KDB 941225 DO6, When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and 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.

9.1 10g Extremity 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.

Conclusion:

The EUT hotspot mode 1-g reported SAR is 0.88 W/kg, which is less than 1.2 W/kg, 10 g extremity SAR is not required.

10 TEST RESULT

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

10.1 GSM 850

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	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												
ANT1	Left cheek	0mm	GPRS 4TX	190	836.6	-0.11	0.114	28.46	29.50	1.271	0.145	/
ANT1	Left tilt	0mm		190	836.6	-0.01	0.104	28.46	29.50	1.271	0.132	/
ANT1	Right cheek	0mm		190	836.6	-0.16	0.149	28.46	29.50	1.271	0.189	1
ANT1	Right tilt	0mm		190	836.6	-0.04	0.100	28.46	29.50	1.271	0.127	/
Body-wron& Hotspot												
ANT1	Front side	10mm	GPRS 4TX	190	836.6	-0.03	0.018	28.46	29.50	1.271	0.023	2
ANT1	Back side	10mm		190	836.6	0.10	0.014	28.46	29.50	1.271	0.018	/
ANT1	Left side	10mm		190	836.6	0.04	0.014	28.46	29.50	1.271	0.018	/
ANT1	Right side	10mm		190	836.6	0.05	0.013	28.46	29.50	1.271	0.017	/
ANT1	Top side	10mm		190	836.6	-0.13	0.007	28.46	29.50	1.271	0.009	/

10.2 GSM 1900

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	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												
ANT1	Left cheek	0mm	GPRS 4TX	661	1880	0.02	0.320	26.73	27.50	1.194	0.382	/
ANT1	Left tilt	0mm		661	1880	-0.13	0.377	26.73	27.50	1.194	0.450	/
ANT1	Right cheek	0mm		661	1880	-0.14	0.455	26.73	27.50	1.194	0.543	/
ANT1	Right tilt	0mm		661	1880	0.03	0.662	26.73	27.50	1.194	0.790	3
Body-wron& Hotspot												
ANT1	Front side	10mm	GPRS 4TX	661	1880	0.15	0.129	26.73	27.50	1.194	0.154	/
ANT1	Back side	10mm		661	1880	0.16	0.230	26.73	27.50	1.194	0.275	/
ANT1	Left side	10mm		661	1880	-0.14	0.021	26.73	27.50	1.194	0.025	/
ANT1	Right side	10mm		661	1880	-0.08	0.034	26.73	27.50	1.194	0.041	/
ANT1	Top side	10mm		661	1880	0.08	0.385	26.73	27.50	1.194	0.460	4

10.3WCDMA Band 2

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	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												
ANT1	Left cheek	0mm	RMC	9400	1880	-0.18	0.051	18.79	20.00	1.321	0.067	/
ANT1	Left tilt	0mm		9400	1880	0.03	0.061	18.79	20.00	1.321	0.081	/
ANT1	Right cheek	0mm		9400	1880	0.01	0.087	18.79	20.00	1.321	0.115	/
ANT1	Right tilt	0mm		9400	1880	0.06	0.125	18.79	20.00	1.321	0.165	5
Body-wron& Hotspot												
ANT1	Front side	10mm	RMC	9400	1880	0.05	0.020	18.79	20.00	1.321	0.026	/
ANT1	Back side	10mm		9400	1880	0.16	0.042	18.79	20.00	1.321	0.055	/
ANT1	Left side	10mm		9400	1880	-0.04	0.015	18.79	20.00	1.321	0.020	/
ANT1	Right side	10mm		9400	1880	-0.14	0.010	18.79	20.00	1.321	0.013	/
ANT1	Top side	10mm		9400	1880	0.19	0.057	18.79	20.00	1.321	0.075	6

10.4WCDMA Band 4

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	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												
ANT1	Left cheek	0mm	RMC	1412	1732.4	-0.09	0.244	20.81	22.00	1.315	0.321	/
ANT1	Left tilt	0mm		1412	1732.4	0.16	0.278	20.81	22.00	1.315	0.366	/
ANT1	Right cheek	0mm		1412	1732.4	-0.16	0.516	20.81	22.00	1.315	0.679	/
ANT1	Right tilt	0mm		1412	1732.4	-0.18	0.577	20.81	22.00	1.315	0.759	7
Body-wron& Hotspot												
ANT1	Front side	10mm	RMC	1412	1732.4	-0.13	0.125	20.81	22.00	1.315	0.164	/
ANT1	Back side	10mm		1412	1732.4	-0.06	0.173	20.81	22.00	1.315	0.228	/
ANT1	Left side	10mm		1412	1732.4	0.08	0.025	20.81	22.00	1.315	0.033	/
ANT1	Right side	10mm		1412	1732.4	-0.05	0.013	20.81	22.00	1.315	0.017	/
ANT1	Top side	10mm		1412	1732.4	-0.12	0.242	20.81	22.00	1.315	0.318	8

10.5WCDMA Band 5

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	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												
ANT1	Left cheek	0mm	RMC	4183	836.6	0.04	0.082	21.71	23.00	1.346	0.110	/
ANT1	Left tilt	0mm		4183	836.6	0.09	0.078	21.71	23.00	1.346	0.105	/
ANT1	Right cheek	0mm		4183	836.6	0.01	0.100	21.71	23.00	1.346	0.135	9
ANT1	Right tilt	0mm		4183	836.6	0.06	0.080	21.71	23.00	1.346	0.108	/
Body-wron& Hotspot												
ANT1	Front side	10mm	RMC	4183	836.6	0.12	0.045	21.71	23.00	1.346	0.060	/
ANT1	Back side	10mm		4183	836.6	0.04	0.054	21.71	23.00	1.346	0.072	/
ANT1	Left side	10mm		4183	836.6	-0.13	0.078	21.71	23.00	1.346	0.105	/
ANT1	Right side	10mm		4183	836.6	0.17	0.005	21.71	23.00	1.346	0.007	/
ANT1	Top side	10mm		4183	836.6	0.11	0.100	21.71	23.00	1.346	0.135	10

10.6LTE Band 2

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	RB num.	RB Start	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															
ANT1	Left cheek	0mm	QPSK	18900	1880	20	1	0	-0.04	0.083	21.19	22.00	1.205	0.100	/
ANT1	Left tilt	0mm		18900	1880	20	1	0	-0.17	0.104	21.19	22.00	1.205	0.125	/
ANT1	Right cheek	0mm		18900	1880	20	1	0	-0.18	0.139	21.19	22.00	1.205	0.167	/
ANT1	Right tilt	0mm		18900	1880	20	1	0	-0.16	0.174	21.19	22.00	1.205	0.210	/
ANT1	Left cheek	0mm	QPSK	18900	1880	20	50	0	0.02	0.091	21.09	22.00	1.233	0.112	/
ANT1	Left tilt	0mm		18900	1880	20	50	0	-0.18	0.108	21.09	22.00	1.233	0.133	/
ANT1	Right cheek	0mm		18900	1880	20	50	0	-0.11	0.158	21.09	22.00	1.233	0.195	/
ANT1	Right tilt	0mm		18900	1880	20	50	0	0.01	0.260	21.09	22.00	1.233	0.321	11
Body-wron& Hotspot															
ANT1	Front side	10mm	QPSK	18900	1880	20	1	0	-0.12	0.050	21.19	22.00	1.205	0.060	/
ANT1	Back side	10mm		18900	1880	20	1	0	0.14	0.079	21.19	22.00	1.205	0.095	/
ANT1	Left side	10mm		18900	1880	20	1	0	-0.08	0.020	21.19	22.00	1.205	0.024	/
ANT1	Right side	10mm		18900	1880	20	1	0	-0.18	0.013	21.19	22.00	1.205	0.016	/
ANT1	Top side	10mm	QPSK	18900	1880	20	1	0	-0.13	0.117	21.19	22.00	1.205	0.141	12
ANT1	Front side	10mm		18900	1880	20	50	0	-0.11	0.041	21.09	22.00	1.233	0.051	/
ANT1	Back side	10mm		18900	1880	20	50	0	-0.15	0.072	21.09	22.00	1.233	0.089	/
ANT1	Left side	10mm		18900	1880	20	50	0	0.02	0.015	21.09	22.00	1.233	0.018	/
ANT1	Right side	10mm		18900	1880	20	50	0	0.09	0.011	21.09	22.00	1.233	0.014	/
ANT1	Top side	10mm		18900	1880	20	50	0	0.10	0.088	21.09	22.00	1.233	0.109	/

10.7LTE Band 5

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	RB num.	RB Start	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															
ANT1	Left cheek	0mm	QPSK	20525	836.5	10	1	0	0.01	0.673	21.22	21.50	1.067	0.717	/
ANT1	Left tilt	0mm		20525	836.5	10	1	0	0.02	0.610	21.22	21.50	1.067	0.651	/
ANT1	Right cheek	0mm		20525	836.5	10	1	0	-0.18	0.825	21.22	21.50	1.067	0.880	13
ANT1	Right tilt	0mm		20525	836.5	10	1	0	0.00	0.690	21.22	21.50	1.067	0.736	/
ANT1	Right cheek	0mm		20450	829	10	1	0	0.17	0.430	21.16	21.50	1.081	0.465	/
ANT1	Right cheek	0mm		20600	844	10	1	0	-0.16	0.597	21.14	21.50	1.086	0.649	/
ANT1	Left cheek	0mm	QPSK	20525	836.5	10	25	0	-0.04	0.564	20.99	21.50	1.125	0.635	/
ANT1	Left tilt	0mm		20525	836.5	10	25	0	-0.08	0.532	20.99	21.50	1.125	0.598	/
ANT1	Right cheek	0mm		20525	836.5	10	25	0	0.01	0.651	20.99	21.50	1.125	0.732	/
ANT1	Right tilt	0mm		20525	836.5	10	25	0	0.07	0.552	20.99	21.50	1.125	0.621	/
ANT1	Right cheek	0mm		20525	836.5	10	50	0	0.08	0.667	20.93	21.50	1.140	0.761	/
Body-wron& Hotspot															
ANT1	Front side	10mm	QPSK	20525	836.5	10	1	0	-0.07	0.160	21.22	21.50	1.067	0.171	/
ANT1	Back side	10mm		20525	836.5	10	1	0	0.00	0.269	21.22	21.50	1.067	0.287	/
ANT1	Left side	10mm		20525	836.5	10	1	0	-0.08	0.095	21.22	21.50	1.067	0.101	/
ANT1	Right side	10mm		20525	836.5	10	1	0	-0.11	0.103	21.22	21.50	1.067	0.110	/
ANT1	Top side	10mm	QPSK	20525	836.5	10	1	0	0.17	0.319	21.22	21.50	1.067	0.340	14
ANT1	Front side	10mm		20525	836.5	10	25	0	0.16	0.134	20.99	21.50	1.125	0.151	/
ANT1	Back side	10mm		20525	836.5	10	25	0	0.11	0.226	20.99	21.50	1.125	0.254	/
ANT1	Left side	10mm		20525	836.5	10	25	0	0.18	0.078	20.99	21.50	1.125	0.088	/
ANT1	Right side	10mm		20525	836.5	10	25	0	0.12	0.087	20.99	21.50	1.125	0.098	/
ANT1	Top side	10mm		20525	836.5	10	25	0	0.04	0.230	20.99	21.50	1.125	0.259	/

10.8LTE Band 7

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	RB num.	RB Start	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																
ANT1	Left cheek	0mm	QPSK	21100	2535	20	1	0	-0.11	0.187	20.86	21.50	1.159	0.217	/	
ANT1	Left tilt	0mm		21100	2535	20	1	0	0.05	0.257	20.86	21.50	1.159	0.298	/	
ANT1	Right cheek	0mm		21100	2535	20	1	0	-0.03	0.435	20.86	21.50	1.159	0.504	/	
ANT1	Right tilt	0mm		21100	2535	20	1	0	-0.13	0.545	20.86	21.50	1.159	0.632	/	
ANT1	Left cheek	0mm	QPSK	21100	2535	20	50	0	0.03	0.199	20.74	21.50	1.191	0.237	/	
ANT1	Left tilt	0mm		21100	2535	20	50	0	-0.07	0.264	20.74	21.50	1.191	0.314	/	
ANT1	Right cheek	0mm		21100	2535	20	50	0	0.19	0.483	20.74	21.50	1.191	0.575	/	
ANT1	Right tilt	0mm		21100	2535	20	50	0	0.06	0.581	20.74	21.50	1.191	0.692	15	
Body-wron& Hotspot																
ANT1	Front side	10mm	QPSK	21100	2535	20	1	0	0.11	0.145	20.86	21.50	1.159	0.168	/	
ANT1	Back side	10mm		21100	2535	20	1	0	-0.09	0.401	20.86	21.50	1.159	0.465	16	
ANT1	Left side	10mm		21100	2535	20	1	0	-0.15	0.101	20.86	21.50	1.159	0.117	/	
ANT1	Right side	10mm		21100	2535	20	1	0	-0.09	0.038	20.86	21.50	1.159	0.044	/	
ANT1	Top side	10mm	QPSK	21100	2535	20	1	0	-0.05	0.392	20.86	21.50	1.159	0.454	/	
ANT1	Front side	10mm		21100	2535	20	50	0	0.14	0.144	20.74	21.50	1.191	0.171	/	
ANT1	Back side	10mm		21100	2535	20	50	0	0.18	0.369	20.74	21.50	1.191	0.440	/	
ANT1	Left side	10mm		21100	2535	20	50	0	-0.13	0.100	20.74	21.50	1.191	0.119	/	
ANT1	Right side	10mm		21100	2535	20	50	0	-0.06	0.020	20.74	21.50	1.191	0.024	/	
ANT1	Top side	10mm		21100	2535	20	50	0	-0.12	0.356	20.74	21.50	1.191	0.425	/	

10.9LTE Band 12

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	RB num.	RB Start	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															
ANT1	Left cheek	0mm	QPSK	23095	707.5	10	1	0	-0.11	0.396	21.14	21.50	1.086	0.430	/
ANT1	Left tilt	0mm		23095	707.5	10	1	0	-0.02	0.362	21.14	21.50	1.086	0.393	/
ANT1	Right cheek	0mm		23095	707.5	10	1	0	0.05	0.513	21.14	21.50	1.086	0.557	17
ANT1	Right tilt	0mm		23095	707.5	10	1	0	0.04	0.385	21.14	21.50	1.086	0.418	/
ANT1	Left cheek	0mm	QPSK	23095	707.5	10	25	0	0.03	0.387	20.85	21.50	1.161	0.449	/
ANT1	Left tilt	0mm		23095	707.5	10	25	0	0.01	0.359	20.85	21.50	1.161	0.417	/
ANT1	Right cheek	0mm		23095	707.5	10	25	0	-0.15	0.413	20.85	21.50	1.161	0.480	/
ANT1	Right tilt	0mm		23095	707.5	10	25	0	-0.14	0.337	20.85	21.50	1.161	0.391	/
Body-wron& Hotspot															
ANT1	Front side	10mm	QPSK	23095	707.5	10	1	0	-0.10	0.124	21.14	21.50	1.086	0.135	/
ANT1	Back side	10mm		23095	707.5	10	1	0	-0.15	0.155	21.14	21.50	1.086	0.168	18
ANT1	Left side	10mm		23095	707.5	10	1	0	-0.13	0.094	21.14	21.50	1.086	0.102	/
ANT1	Right side	10mm		23095	707.5	10	1	0	0.18	0.056	21.14	21.50	1.086	0.061	/
ANT1	Top side	10mm	QPSK	23095	707.5	10	1	0	-0.07	0.114	21.14	21.50	1.086	0.124	/
ANT1	Front side	10mm		23095	707.5	10	25	0	-0.17	0.109	20.85	21.50	1.161	0.127	/
ANT1	Back side	10mm		23095	707.5	10	25	0	0.14	0.135	20.85	21.50	1.161	0.157	/
ANT1	Left side	10mm		23095	707.5	10	25	0	-0.09	0.104	20.85	21.50	1.161	0.121	/
ANT1	Right side	10mm		23095	707.5	10	25	0	-0.14	0.078	20.85	21.50	1.161	0.091	/
ANT1	Top side	10mm		23095	707.5	10	25	0	-0.02	0.112	20.85	21.50	1.161	0.130	/
ANT1	Front side	10mm		23095	707.5	10	25	0	-0.17	0.109	20.85	21.50	1.161	0.127	/
ANT1	Back side	10mm		23095	707.5	10	25	0	0.14	0.135	20.85	21.50	1.161	0.157	/

10.10 LTE Band 66

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	RB num.	RB Start	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															
ANT1	Left cheek	0mm	QPSK	132322	1745	20	1	0	0.16	0.081	21.02	22.00	1.253	0.102	/
ANT1	Left tilt	0mm		132322	1745	20	1	0	-0.03	0.105	21.02	22.00	1.253	0.132	/
ANT1	Right cheek	0mm		132322	1745	20	1	0	-0.15	0.136	21.02	22.00	1.253	0.170	/
ANT1	Right tilt	0mm		132322	1745	20	1	0	0.13	0.153	21.02	22.00	1.253	0.192	/
ANT1	Left cheek	0mm	QPSK	132322	1745	20	50	0	-0.19	0.077	20.84	22.00	1.306	0.101	/
ANT1	Left tilt	0mm		132322	1745	20	50	0	0.09	0.087	20.84	22.00	1.306	0.114	/
ANT1	Right cheek	0mm		132322	1745	20	50	0	0.06	0.125	20.84	22.00	1.306	0.163	/
ANT1	Right tilt	0mm		132322	1745	20	50	0	0.13	0.240	20.84	22.00	1.306	0.313	19
Body-wron& Hotspot															
ANT1	Front side	10mm	QPSK	132322	1745	20	1	0	-0.07	0.025	21.02	22.00	1.253	0.031	/
ANT1	Back side	10mm		132322	1745	20	1	0	-0.11	0.104	21.02	22.00	1.253	0.130	/
ANT1	Left side	10mm		132322	1745	20	1	0	-0.16	0.013	21.02	22.00	1.253	0.016	/
ANT1	Right side	10mm		132322	1745	20	1	0	-0.08	0.009	21.02	22.00	1.253	0.011	/
ANT1	Top side	10mm	QPSK	132322	1745	20	1	0	-0.17	0.117	21.02	22.00	1.253	0.147	/
ANT1	Front side	10mm		132322	1745	20	50	0	-0.07	0.021	20.84	22.00	1.306	0.027	/
ANT1	Back side	10mm		132322	1745	20	50	0	0.14	0.098	20.84	22.00	1.306	0.128	/
ANT1	Left side	10mm		132322	1745	20	50	0	0.02	0.011	20.84	22.00	1.306	0.014	/
ANT1	Right side	10mm		132322	1745	20	50	0	-0.08	0.005	20.84	22.00	1.306	0.007	/
ANT1	Top side	10mm		132322	1745	20	50	0	0.16	0.117	20.84	22.00	1.306	0.153	20
ANT1	Front side	10mm		132322	1745	20	50	0	-0.17	0.117	21.02	22.00	1.253	0.147	/
ANT1	Back side	10mm		132322	1745	20	50	0	0.14	0.098	20.84	22.00	1.306	0.128	/

10.11 LTE Band 41

Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	RB num.	RB Start	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															
ANT1	Left cheek	0mm	QPSK	40640	2595	20	1	0	0.12	0.145	20.29	21.00	1.178	0.171	/
ANT1	Left tilt	0mm		40640	2595	20	1	0	0.13	0.207	20.29	21.00	1.178	0.244	/
ANT1	Right cheek	0mm		40640	2595	20	1	0	0.18	0.347	20.29	21.00	1.178	0.409	/
ANT1	Right tilt	0mm		40640	2595	20	1	0	-0.18	0.397	20.29	21.00	1.178	0.468	/
ANT1	Left cheek	0mm	QPSK	40640	2595	20	50	0	0.19	0.154	20.04	21.00	1.247	0.192	/
ANT1	Left tilt	0mm		40640	2595	20	50	0	-0.04	0.208	20.04	21.00	1.247	0.259	/
ANT1	Right cheek	0mm		40640	2595	20	50	0	-0.13	0.287	20.04	21.00	1.247	0.358	/
ANT1	Right tilt	0mm		40640	2595	20	50	0	0.12	0.410	20.04	21.00	1.247	0.511	21
Body-wron& Hotspot															
ANT1	Front side	10mm	QPSK	40640	2595	20	1	0	-0.07	0.083	20.29	21.00	1.178	0.098	/
ANT1	Back side	10mm		40640	2595	20	1	0	-0.15	0.244	20.29	21.00	1.178	0.287	/
ANT1	Left side	10mm		40640	2595	20	1	0	0.14	0.062	20.29	21.00	1.178	0.073	/
ANT1	Right side	10mm		40640	2595	20	1	0	-0.17	0.018	20.29	21.00	1.178	0.021	/
ANT1	Top side	10mm	QPSK	40640	2595	20	1	0	-0.06	0.252	20.29	21.00	1.178	0.297	/
ANT1	Front side	10mm		40640	2595	20	50	0	0.13	0.087	20.04	21.00	1.247	0.109	/
ANT1	Back side	10mm		40640	2595	20	50	0	0.06	0.235	20.04	21.00	1.247	0.293	/
ANT1	Left side	10mm		40640	2595	20	50	0	-0.10	0.063	20.04	21.00	1.247	0.079	/
ANT1	Right side	10mm		40640	2595	20	50	0	-0.02	0.021	20.04	21.00	1.247	0.026	/
ANT1	Top side	10mm		40640	2595	20	50	0	0.18	0.284	20.04	21.00	1.247	0.354	22
ANT1	Front side	10mm		40640	2595	20	50	0	-0.17	0.117	21.02	22.00	1.253	0.147	/
ANT1	Back side	10mm		40640	2595	20	50	0	0.14	0.098	20.84	22.00	1.306	0.128	/

10.12 Bluetooth

Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT12	Left cheek	0mm	DH5	78	2480	0.19	0.062	12.45	13.00	1.135	76.94	1.300	0.091	23
ANT12	Left tilt	0mm		78	2480	0.15	0.058	12.45	13.00	1.135	76.94	1.300	0.086	/
ANT12	Right cheek	0mm		78	2480	0.06	0.039	12.45	13.00	1.135	76.94	1.300	0.058	/
ANT12	Right tilt	0mm		78	2480	0.19	0.042	12.45	13.00	1.135	76.94	1.300	0.062	/
Body-wron& Hotspot														
ANT12	Front side	10mm	DH5	78	2480	-0.01	0.019	12.45	13.00	1.135	76.94	1.300	0.028	/
ANT12	Back side	10mm		78	2480	-0.07	0.027	12.45	13.00	1.135	76.94	1.300	0.040	/
ANT12	Left side	10mm		78	2480	0.01	0.010	12.45	13.00	1.135	76.94	1.300	0.015	/
ANT12	Right side	10mm		78	2480	0.11	0.010	12.45	13.00	1.135	76.94	1.300	0.015	/
ANT12	Top side	10mm		78	2480	0.16	0.028	12.45	13.00	1.135	76.94	1.300	0.041	24

10.13 WIFI 2.4GHZ

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT12	Left cheek	0mm	802.11b	11	2462	0.13	0.353	16.37	17.00	1.156	100.00	1.000	0.408	25
ANT12	Left tilt	0mm		11	2462	-0.09	0.335	16.37	17.00	1.156	100.00	1.000	0.387	/
ANT12	Right cheek	0mm		11	2462	0.11	0.172	16.37	17.00	1.156	100.00	1.000	0.199	/
ANT12	Right tilt	0mm		11	2462	0.12	0.230	16.37	17.00	1.156	100.00	1.000	0.266	/
Body-wron& Hotspot														
ANT12	Front side	10mm	802.11b	11	2462	-0.09	0.087	16.37	17.00	1.156	100.00	1.000	0.101	/
ANT12	Back side	10mm		11	2462	0.02	0.185	16.37	17.00	1.156	100.00	1.000	0.214	/
ANT12	Left side	10mm		11	2462	-0.16	0.021	16.37	17.00	1.156	100.00	1.000	0.024	/
ANT12	Right side	10mm		11	2462	-0.19	0.055	16.37	17.00	1.156	100.00	1.000	0.064	/
ANT12	Top side	10mm		11	2462	-0.08	0.195	16.37	17.00	1.156	100.00	1.000	0.225	26

10.14 WIFI 5GHz

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
5.2G WIFI	ANT13	Left cheek	0mm	802.11n40	38	5190	0.05	0.589	15.21	15.50	1.069	92.34	1.083	0.682	/
	ANT13	Left tilt	0mm		38	5190	0.18	0.631	15.21	15.50	1.069	92.34	1.083	0.731	27
	ANT13	Right cheek	0mm		38	5190	0.10	0.475	15.21	15.50	1.069	92.34	1.083	0.550	/
	ANT13	Right tilt	0mm		38	5190	0.02	0.521	15.21	15.50	1.069	92.34	1.083	0.604	/
5.3G WIFI	ANT13	Left cheek	0mm	802.11ac80	58	5290	0.11	0.589	14.46	15.00	1.132	87.53	1.142	0.761	/
	ANT13	Left tilt	0mm		58	5290	0.12	0.657	14.46	15.00	1.132	87.53	1.142	0.849	28
	ANT13	Right cheek	0mm		58	5290	0.11	0.385	14.46	15.00	1.132	87.53	1.142	0.498	/
	ANT13	Right tilt	0mm		58	5290	0.04	0.471	14.46	15.00	1.132	87.53	1.142	0.609	/
5.6G WIFI	ANT13	Left cheek	0mm	802.11n20	100	5500	0.17	0.549	14.80	15.50	1.175	96.97	1.031	0.665	/
	ANT13	Left tilt	0mm		100	5500	-0.12	0.635	14.80	15.50	1.175	96.97	1.031	0.769	29
	ANT13	Right cheek	0mm		100	5500	0.15	0.407	14.80	15.50	1.175	96.97	1.031	0.493	/
	ANT13	Right tilt	0mm		100	5500	-0.19	0.400	14.80	15.50	1.175	96.97	1.031	0.485	/
5.8G WIFI	ANT13	Left cheek	0mm	802.11ac80	155	5775	-0.14	0.635	15.21	15.50	1.069	87.53	1.142	0.776	/
	ANT13	Left tilt	0mm		155	5775	0.05	0.688	15.21	15.50	1.069	87.53	1.142	0.840	30
	ANT13	Right cheek	0mm		155	5775	-0.15	0.445	15.21	15.50	1.069	87.53	1.142	0.543	/
	ANT13	Right tilt	0mm		155	5775	0.04	0.558	15.21	15.50	1.069	87.53	1.142	0.682	/
Body-wron& Hotspot															
5.2G WIFI	ANT13	Front side	10mm	802.11n40	38	5190	-0.09	0.133	15.21	15.50	1.069	92.34	1.083	0.154	/
	ANT13	Back side	10mm		38	5190	0.07	0.178	15.21	15.50	1.069	92.34	1.083	0.206	/
	ANT13	Left side	10mm		38	5190	-0.17	0.122	15.21	15.50	1.069	92.34	1.083	0.141	/
	ANT13	Right side	10mm		38	5190	0.12	0.087	15.21	15.50	1.069	92.34	1.083	0.101	/
5.3G WIFI	ANT13	Top side	10mm	802.11ac80	38	5190	-0.01	0.204	15.21	15.50	1.069	92.34	1.083	0.236	31
	ANT13	Front side	10mm		58	5290	0.11	0.168	14.46	15.00	1.132	87.53	1.142	0.217	/
	ANT13	Back side	10mm		58	5290	-0.19	0.217	14.46	15.00	1.132	87.53	1.142	0.281	/
	ANT13	Left side	10mm		58	5290	-0.14	0.147	14.46	15.00	1.132	87.53	1.142	0.190	/
5.6G WIFI	ANT13	Right side	10mm	802.11n20	58	5290	-0.09	0.086	14.46	15.00	1.132	87.53	1.142	0.111	/
	ANT13	Top side	10mm		58	5290	-0.03	0.220	14.46	15.00	1.132	87.53	1.142	0.285	32
	ANT13	Front side	10mm		100	5500	0.18	0.118	14.80	15.50	1.175	96.97	1.031	0.143	/
	ANT13	Back side	10mm		100	5500	-0.13	0.175	14.80	15.50	1.175	96.97	1.031	0.212	/
5.8G WIFI	ANT13	Left side	10mm	802.11ac80	100	5500	-0.12	0.061	14.80	15.50	1.175	96.97	1.031	0.074	/
	ANT13	Right side	10mm		100	5500	-0.13	0.074	14.80	15.50	1.175	96.97	1.031	0.090	/
	ANT13	Top side	10mm		100	5500	0.03	0.233	14.80	15.50	1.175	96.97	1.031	0.282	33
	ANT13	Front side	10mm		155	5775	0.14	0.129	15.21	15.50	1.069	87.53	1.142	0.157	/
5.8G WIFI	ANT13	Back side	10mm	802.11ac80	155	5775	0.11	0.200	15.21	15.50	1.069	87.53	1.142	0.244	/
	ANT13	Left side	10mm		155	5775	-0.08	0.135	15.21	15.50	1.069	87.53	1.142	0.165	/
	ANT13	Right side	10mm		155	5775	-0.05	0.104	15.21	15.50	1.069	87.53	1.142	0.127	/
	ANT13	Tgn side	10mm		155	5775	-0.10	0.231	15.21	15.50	1.069	87.53	1.142	0.282	34

10.15 Worst case for Memory

Test Band	Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	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 B5	ANT1	Right cheek	0mm	QPSK	20525	836.5	10	0.02	0.705	21.22	21.50	1.067	0.752	35

Test Band	Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Bandwidth	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-wron& Hotspot														
LTE B7	ANT1	Back side	10mm	QPSK	21100	2535	20	0.10	0.362	20.86	21.50	1.159	0.419	36

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 ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Radio
835	LTE B5	Head	Right Cheek	0.825	Yes	0.791	1.04
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+WIFI2.4G	Yes	Yes	Yes
2	WWAN+WIFI5G+BT	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.
4. 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.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Sum Head SAR of Simultaneous Transmission

Band	Position	Dist.	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI	5G WIFI	Bluetooth		
GSM 850	Left Cheek	0mm	0.145	0.408	0.776	0.091	0.553	1.012
GSM 850	Left Tilt	0mm	0.132	0.387	0.849	0.086	0.519	1.067
GSM 850	Right Cheek	0mm	0.189	0.199	0.550	0.058	0.388	0.797
GSM 850	Right Tilt	0mm	0.127	0.266	0.682	0.062	0.393	0.871
GSM 1900	Left Cheek	0mm	0.382	0.408	0.776	0.091	0.790	1.249
GSM 1900	Left Tilt	0mm	0.450	0.387	0.849	0.086	0.837	1.385
GSM 1900	Right Cheek	0mm	0.543	0.199	0.550	0.058	0.742	1.151
GSM 1900	Right Tilt	0mm	0.790	0.266	0.682	0.062	1.056	1.534
WCDMA B2	Left Cheek	0mm	0.067	0.408	0.776	0.091	0.475	0.934
WCDMA B2	Left Tilt	0mm	0.081	0.387	0.849	0.086	0.468	1.016
WCDMA B2	Right Cheek	0mm	0.115	0.199	0.550	0.058	0.314	0.723
WCDMA B2	Right Tilt	0mm	0.165	0.266	0.682	0.062	0.431	0.909
WCDMA B4	Left Cheek	0mm	0.321	0.408	0.776	0.091	0.729	1.188
WCDMA B4	Left Tilt	0mm	0.366	0.387	0.849	0.086	0.753	1.301
WCDMA B4	Right Cheek	0mm	0.679	0.199	0.550	0.058	0.878	1.287
WCDMA B4	Right Tilt	0mm	0.759	0.266	0.682	0.062	1.025	1.503
WCDMA B5	Left Cheek	0mm	0.110	0.408	0.776	0.091	0.518	0.977
WCDMA B5	Left Tilt	0mm	0.105	0.387	0.849	0.086	0.492	1.040
WCDMA B5	Right Cheek	0mm	0.135	0.199	0.550	0.058	0.334	0.743
WCDMA B5	Right Tilt	0mm	0.108	0.266	0.682	0.062	0.374	0.852
LTE B2	Left Cheek	0mm	0.112	0.408	0.776	0.091	0.520	0.979
LTE B2	Left Tilt	0mm	0.133	0.387	0.849	0.086	0.520	1.068
LTE B2	Right Cheek	0mm	0.195	0.199	0.550	0.058	0.394	0.803
LTE B2	Right Tilt	0mm	0.321	0.266	0.682	0.062	0.587	1.065
LTE B5	Left Cheek	0mm	0.717	0.408	0.776	0.091	1.125	1.584
LTE B5	Left Tilt	0mm	0.651	0.387	0.849	0.086	1.038	1.586
LTE B5	Right Cheek	0mm	0.880	0.199	0.550	0.058	1.079	1.488
LTE B5	Right Tilt	0mm	0.736	0.266	0.682	0.062	1.002	1.480
LTE B7	Left Cheek	0mm	0.237	0.408	0.776	0.091	0.645	1.104
LTE B7	Left Tilt	0mm	0.314	0.387	0.849	0.086	0.701	1.249
LTE B7	Right Cheek	0mm	0.575	0.199	0.550	0.058	0.774	1.183
LTE B7	Right Tilt	0mm	0.692	0.266	0.682	0.062	0.958	1.436
LTE B12	Left Cheek	0mm	0.449	0.408	0.776	0.091	0.857	1.316
LTE B12	Left Tilt	0mm	0.417	0.387	0.849	0.086	0.804	1.352
LTE B12	Right Cheek	0mm	0.557	0.199	0.550	0.058	0.756	1.165
LTE B12	Right Tilt	0mm	0.418	0.266	0.682	0.062	0.684	1.162
LTE B66	Left Cheek	0mm	0.102	0.408	0.776	0.091	0.510	0.969
LTE B66	Left Tilt	0mm	0.132	0.387	0.849	0.086	0.519	1.067
LTE B66	Right Cheek	0mm	0.170	0.199	0.550	0.058	0.369	0.778
LTE B66	Right Tilt	0mm	0.313	0.266	0.682	0.062	0.579	1.057
LTE B41	Left Cheek	0mm	0.192	0.408	0.776	0.091	0.600	1.059
LTE B41	Left Tilt	0mm	0.259	0.387	0.849	0.086	0.646	1.194
LTE B41	Right Cheek	0mm	0.409	0.199	0.550	0.058	0.608	1.017
LTE B41	Right Tilt	0mm	0.511	0.266	0.682	0.062	0.777	1.255

Note:
1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.
2: The highest Summed 1g SAR is 1.586 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Sum Body-worn SAR of Simultaneous Transmission

Band	Position	Dist.	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI	5G WIFI	Bluetooth		
GSM 850	Front Side	10mm	0.023	0.101	0.217	0.028	0.124	0.268
GSM 850	Back Side	10mm	0.018	0.214	0.281	0.040	0.232	0.339
GSM 1900	Front Side	10mm	0.154	0.101	0.217	0.028	0.255	0.399
GSM 1900	Back Side	10mm	0.275	0.214	0.281	0.040	0.489	0.596
WCDMA B2	Front Side	10mm	0.026	0.101	0.217	0.028	0.127	0.271
WCDMA B2	Back Side	10mm	0.055	0.214	0.281	0.040	0.269	0.376
WCDMA B4	Front Side	10mm	0.164	0.101	0.217	0.028	0.265	0.409
WCDMA B4	Back Side	10mm	0.228	0.214	0.281	0.040	0.442	0.549
WCDMA B5	Front Side	10mm	0.060	0.101	0.217	0.028	0.161	0.305
WCDMA B5	Back Side	10mm	0.072	0.214	0.281	0.040	0.286	0.393
LTE B2	Front Side	10mm	0.060	0.101	0.217	0.028	0.161	0.305
LTE B2	Back Side	10mm	0.095	0.214	0.281	0.040	0.309	0.416
LTE B5	Front Side	10mm	0.171	0.101	0.217	0.028	0.272	0.416
LTE B5	Back Side	10mm	0.287	0.214	0.281	0.040	0.501	0.608
LTE B7	Front Side	10mm	0.171	0.101	0.217	0.028	0.272	0.416
LTE B7	Back Side	10mm	0.465	0.214	0.281	0.040	0.679	0.786
LTE B12	Front Side	10mm	0.135	0.101	0.217	0.028	0.236	0.380
LTE B12	Back Side	10mm	0.168	0.214	0.281	0.040	0.382	0.489
LTE B66	Front Side	10mm	0.031	0.101	0.217	0.028	0.132	0.276
LTE B66	Back Side	10mm	0.130	0.214	0.281	0.040	0.344	0.451
LTE B41	Front Side	10mm	0.109	0.101	0.217	0.028	0.210	0.354
LTE B41	Back Side	10mm	0.293	0.214	0.281	0.040	0.507	0.614

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.786 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Sum Hotspot mode SAR of Simultaneous Transmission

Band	Position	Dist.	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI	5G WIFI	Bluetooth	1+2	1+3+4
GSM 850	Front Side	10mm	0.023	0.101	0.217	0.028	0.124	0.268
GSM 850	Back Side	10mm	0.018	0.214	0.281	0.040	0.232	0.339
GSM 850	Left Side	10mm	0.018	0.024	0.190	0.015	0.042	0.223
GSM 850	Right Side	10mm	0.017	0.064	0.127	0.015	0.081	0.159
GSM 850	Top Side	10mm	0.009	0.225	0.285	0.041	0.234	0.335
GSM 1900	Front Side	10mm	0.154	0.101	0.217	0.028	0.255	0.399
GSM 1900	Back Side	10mm	0.275	0.214	0.281	0.040	0.489	0.596
GSM 1900	Left Side	10mm	0.025	0.024	0.190	0.015	0.049	0.230
GSM 1900	Right Side	10mm	0.041	0.064	0.127	0.015	0.105	0.183
GSM 1900	Top Side	10mm	0.460	0.225	0.285	0.041	0.685	0.786
WCDMA B2	Front Side	10mm	0.026	0.101	0.217	0.028	0.127	0.271
WCDMA B2	Back Side	10mm	0.055	0.214	0.281	0.040	0.269	0.376
WCDMA B2	Left Side	10mm	0.020	0.024	0.190	0.015	0.044	0.225
WCDMA B2	Right Side	10mm	0.013	0.064	0.127	0.015	0.077	0.155
WCDMA B2	Top Side	10mm	0.075	0.225	0.285	0.041	0.300	0.401
WCDMA B4	Front Side	10mm	0.164	0.101	0.217	0.028	0.265	0.409
WCDMA B4	Back Side	10mm	0.228	0.214	0.281	0.040	0.442	0.549
WCDMA B4	Left Side	10mm	0.033	0.024	0.190	0.015	0.057	0.238
WCDMA B4	Right Side	10mm	0.017	0.064	0.127	0.015	0.081	0.159
WCDMA B4	Top Side	10mm	0.318	0.225	0.285	0.041	0.543	0.644
WCDMA B5	Front Side	10mm	0.060	0.101	0.217	0.028	0.161	0.305
WCDMA B5	Back Side	10mm	0.072	0.214	0.281	0.040	0.286	0.393
WCDMA B5	Left Side	10mm	0.105	0.024	0.190	0.015	0.129	0.310
WCDMA B5	Right Side	10mm	0.007	0.064	0.127	0.015	0.071	0.149
WCDMA B5	Top Side	10mm	0.135	0.225	0.285	0.041	0.360	0.461
LTE B2	Front Side	10mm	0.060	0.101	0.217	0.028	0.161	0.305
LTE B2	Back Side	10mm	0.095	0.214	0.281	0.040	0.309	0.416
LTE B2	Left Side	10mm	0.024	0.024	0.190	0.015	0.048	0.229
LTE B2	Right Side	10mm	0.016	0.064	0.127	0.015	0.080	0.158
LTE B2	Top Side	10mm	0.141	0.225	0.285	0.041	0.366	0.467
LTE B5	Front Side	10mm	0.171	0.101	0.217	0.028	0.272	0.416
LTE B5	Back Side	10mm	0.287	0.214	0.281	0.040	0.501	0.608
LTE B5	Left Side	10mm	0.101	0.024	0.190	0.015	0.125	0.306
LTE B5	Right Side	10mm	0.110	0.064	0.127	0.015	0.174	0.252
LTE B5	Top Side	10mm	0.340	0.225	0.285	0.041	0.565	0.666
LTE B7	Front Side	10mm	0.171	0.101	0.217	0.028	0.272	0.416
LTE B7	Back Side	10mm	0.465	0.214	0.281	0.040	0.679	0.786
LTE B7	Left Side	10mm	0.119	0.024	0.190	0.015	0.143	0.324
LTE B7	Right Side	10mm	0.044	0.064	0.127	0.015	0.108	0.186
LTE B7	Top Side	10mm	0.454	0.225	0.285	0.041	0.679	0.780
LTE B12	Front Side	10mm	0.135	0.101	0.217	0.028	0.236	0.380
LTE B12	Back Side	10mm	0.168	0.214	0.281	0.040	0.382	0.489
LTE B12	Left Side	10mm	0.121	0.024	0.190	0.015	0.145	0.326
LTE B12	Right Side	10mm	0.091	0.064	0.127	0.015	0.155	0.233
LTE B12	Top Side	10mm	0.130	0.225	0.285	0.041	0.355	0.456
LTE B66	Front Side	10mm	0.031	0.101	0.217	0.028	0.132	0.276
LTE B66	Back Side	10mm	0.130	0.214	0.281	0.040	0.344	0.451
LTE B66	Left Side	10mm	0.016	0.024	0.190	0.015	0.040	0.221
LTE B66	Right Side	10mm	0.011	0.064	0.127	0.015	0.075	0.153
LTE B66	Top Side	10mm	0.153	0.225	0.285	0.041	0.378	0.479
LTE B41	Front Side	10mm	0.109	0.101	0.217	0.028	0.210	0.354
LTE B41	Back Side	10mm	0.293	0.214	0.281	0.040	0.507	0.614
LTE B41	Left Side	10mm	0.079	0.024	0.190	0.015	0.103	0.284
LTE B41	Right Side	10mm	0.026	0.064	0.127	0.015	0.090	0.168
LTE B41	Top Side	10mm	0.354	0.225	0.285	0.041	0.579	0.680

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.786 W/Kg < 1.6 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	DASY5	52.10.4.1535	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	1201	2024/09/03	2027/09/03
835MHz Validation Dipole	Speag	D835V2	4d277	2024/08/30	2027/08/30
1750MHz Validation Dipole	Speag	D1750V2	1183	2024/09/03	2027/09/03
1900MHz Validation Dipole	Speag	D1900V2	5d155	2024/09/02	2027/09/02
2450MHz Validation Dipole	Speag	D2450V2	1065	2024/09/05	2027/09/05
2600MHz Validation Dipole	Speag	D2600V2	1184	2024/08/30	2027/08/30
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/04	2027/09/04
Data Acquisition Electronics	Speag	DAE4	1389	2026/05/08	2027/05/08
E-Field Probe	Speag	EX3DV4	7986	2026/04/07	2027/04/07
Signal Generator	R&S	SMB100A	182635	2026/02/03	2027/02/03
Power Meter	Agilent	E4419B	MY45104512	2026/02/03	2027/02/03
Power Sensor	Agilent	E9304A	MY41499059	2026/02/03	2027/02/03
Power Sensor	Agilent	E9304A	MY41499060	2026/02/03	2027/02/03
Wireless Communication Test Set	R&S	CMW500	165568	2026/02/04	2027/02/04
Network Analyzer	Agilent	E5071C	MY56301409	2026/02/03	2027/02/03
Test Software	Agilent	85070	E04.02.13	N/A	N/A
Dielectric Probe Kit	Keysight	85070E	MY44300524	N/A	N/A
Thermometer	CEM	DT-322	220718792	2026/01/28	2027/01/28
Thermometer	Elitech	RC-4HC	EF7247001260	2026/01/28	2027/01/28
Power Amplifier	COM-MW	PAO.4	201704001	N/A	N/A
Phantom	Speag	SAM	SN: 1473	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, Tejet 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 85070E 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 (%)
2026.08.23	Head	750	21.4	0.88	42.95	0.89	41.94	-1.12	2.41
2026.08.20	Head	835	21.3	0.91	42.71	0.90	41.50	1.11	2.92
2026.08.21	Head	1750	21.2	1.31	41.28	1.37	40.08	-4.38	2.99
2026.08.22	Head	1900	21.5	1.39	41.11	1.40	40.00	-0.71	2.78
2026.08.24	Head	2450	21.3	1.76	40.50	1.80	39.20	-2.22	3.32
2026.08.23	Head	2600	21.4	1.88	40.34	1.96	39.01	-4.08	3.41
2026.08.27	Head	5300	21.0	4.77	36.15	4.76	35.87	0.21	0.78
2026.08.28	Head	5600	21.2	5.10	35.44	5.07	35.53	0.59	-0.25
2026.08.28	Head	5800	21.2	5.35	34.97	5.27	35.30	1.52	-0.93
2026.08.29	Head	835	21.6	0.91	42.09	0.90	41.50	1.11	1.42
2026.08.29	Head	2600	21.6	1.91	39.97	1.96	39.01	-2.55	2.46
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 (%)
2026.08.23	Head	750	100	0.865	8.65	8.46	2.25
2026.08.20	Head	835	100	0.969	9.69	9.59	1.04
2026.08.21	Head	1750	100	3.500	35.00	36.50	-4.11
2026.08.22	Head	1900	100	4.050	40.50	39.90	1.50
2026.08.24	Head	2450	100	4.780	47.80	52.60	-9.13
2026.08.23	Head	2600	100	5.520	55.20	55.90	-1.25
2026.08.27	Head	5300	100	8.100	81.00	79.00	2.53
2026.08.28	Head	5600	100	8.520	85.20	82.80	2.90
2026.08.28	Head	5800	100	8.420	84.20	78.50	7.26
2026.08.29	Head	835	100	0.954	9.54	9.59	-0.52
2026.08.29	Head	2600	100	5.790	57.90	55.90	3.58

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

ANNEX C TEST DATA

Please refer the document “Ti-CC26080210-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26080210-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “Ti-CC26080210-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “Ti-CC26080210-AC.pdf”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--