

TEST REPORT

Realme Chongging Mobile Telecommunications Applicant:

Corp., Ltd.

No.178 Yulong Avenue, Yufengshan, Yubei District, Address:

Chongqing, China

Equipment Type: Mobile Phone

Model Name: RMX3930

Brand Name: realme

FCC ID: 2AUYFRMX3930

FCC 47 CFR Part 2.1093 **Test Standard:**

(refer to section 3.1)

Head (1 g@0mm): 1.02 W/kg

Body-worn (1 g@15mm): 0.61 W/kg Maximum SAR:

Hotspot (1 g@10mm): 1.12 W/kg

Specific (10 g@0mm): 2.79 W/kg

Apr. 29, 2024 Sample Arrival Date:

Test Date: May 14, 2024 - May 15, 2024

Date of Issue: May 31, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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Revision History

VersionIssue DateRevisions ContentRev. 01May 22, 2024Initial Issue

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Section 3.1

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative	200/ 1- 700/
Humidity	30% to 70%



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.	
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China	

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.	
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China	

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone	
Model Name Under Test	RMX3930	
Series Model Name	N/A	
Description of Model	NI/A	
name differentiation	N/A	
Hardware Version	11	
Software Version	realme UI Android 14	
Dimensions (Approx.)	167.26*76.67*7.84mm	
Weight (Approx.)	188g	
EUT ID	S07	
IMEI Number	S07: IMEI1: 861694070019938; IMEI2: 861694070019920	

2.4 Ancillary Equipment

	Battery		
	Brand Name	SUPERVOOC	
	Model No.	BLPA75	
	Serial No.	N/A	
Ancillary Equipment 1	Capacitance	Rated: 4880mAh/19.09Wh	
		Typical: 5000mAh/19.55Wh	
	Rated Voltage	3.91V	
	Limited Voltage	4.5 V	
	Manufacturer	Dongguan NVT Technology Co., Ltd.	



2.5 Technical Information

	2G Network GSM/GPRS/EDGE 850/1900 MHz	
	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5	
	4G Network LTE FDD Band 2/4/5/7/13/66	
Network and Wireless	LTE TDD Band 38/41	
connectivity	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)	
	U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, SBAS, NFC	
	•	

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, 2.4G WLAN, 5G WLAN, Bluetooth		
	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 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
Frequency Range	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	802.11a/	5150 ~ 5250 MHz	
	/n(HT20/HT40)	5250 ~ 5350 MHz	
	/ac(VHT20/VHT40	5470 ~ 5725 MHz	
	/VHT80)	5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
	NFC	13.56 MHz	
	WWAN: PIFA Antenna		
	WLAN: PIFA Antenna		
Antenna Type	Bluetooth: PIFA Antenna		
	NFC: Coli Antenna		
DTM	N/A		
Hotspot Function	Support		
The second secon			



Power Reduction	Support	
Exposure	General Population/Uncontrolled exposure	
Category		
Product Type	Portable Device	
EUT Type		☐ Identical prototype



3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	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 BL-SZ2420300-701, the changes of the EUT of this report as below:

- 1. Changed model name from RMX3939 to RMX3930.
- 2. Removed the leather battery back cover.
- 3. With different weight and size.
- 4. Changed Front Camera from 8M to 5M.
- 5. Removed the rear camera Light sensor.
- 6. Changed Rear camera metal trim material from Metal Deco to Panel Deco.
- 7. Changed the charging power from 45W to 15W.
- 8. Changed Speaker from Super Linear Speaker to Large Magnetic Speaker.
- 9. Changed Battery Model from BLPA83 to BLPA75.
- 10. Added battery back cover suppliers and models.
- 11. Added LED suppliers and models.
- 12. Changed back cover color.

Other hardware circuit and software are the same as EUT referred in test report BL-SZ2420300-701.



Therefore, the worst case spot check was performed according to the original grant (test report BL-SZ2420300-701). Based on the measured results, the original grant with higher value. So the Maximum SAR remain unchanged.



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:

	SAR Valu	e (W/Kg)
Body Position	General Population/	Occupational/
	Uncontrolled Exposure	ControlledExposure
Whole-Body SAR	0.08	0.4
(averaged over the entire body)	0.08	0.4
Partial-Body SAR	1.60	8.0
(averaged over any 1 gram of tissue)	1.00	8.0
SAR for hands, wrists, feet and		
ankles	4.0	20.0
(averaged over any 10 grams of tissue)		

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

"N/A".

3.3.2 Highest Simultaneous Transmission SAR Values

"N/A".



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

The maximum 10 g SAR for the EUT in this report is 2.79 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.



4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

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

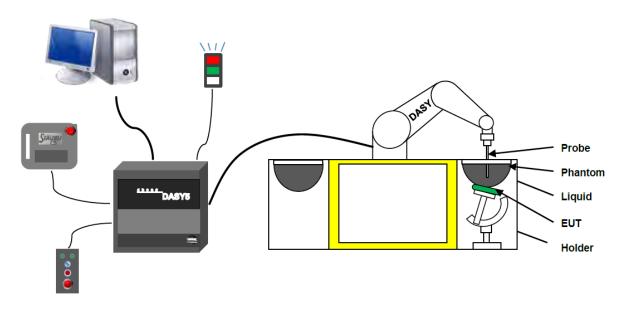
Where: σ is the conductivity of the tissue,

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



4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



The 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.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, ADconversion, 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-SN:7506&7607 with following specifications is used.

Construction Symmetrical design with triangular core Built-in optical fiber for surface detection

systemBuilt-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 $5 \mu W/g$ to > 100 mW/g; Linearity: $\pm 0.2 dB$

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: 200MOhm
- 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 SN1576



Serial Number	Material	Length	Height
SN 1576 SAM1	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.

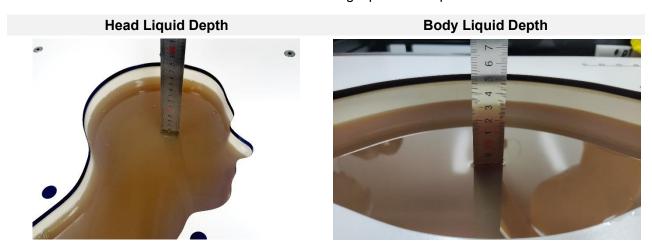


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



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%.



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



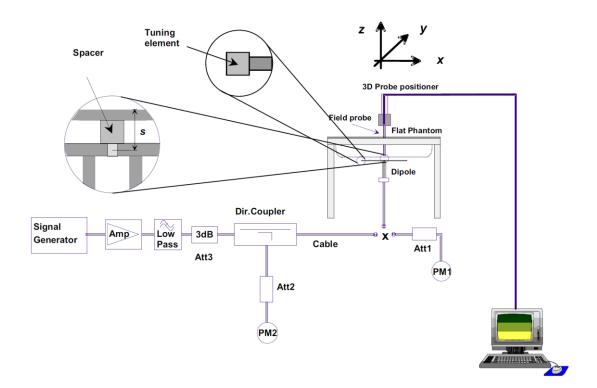
5 SYSTEM VERIFICATION

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

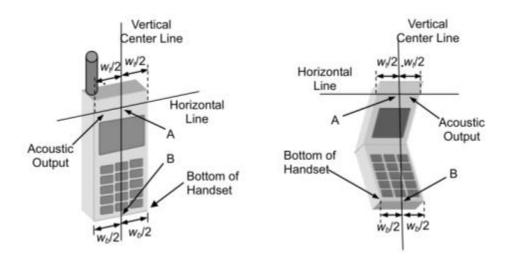
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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

- (a) 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.
- (b) 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.
- (c) 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.

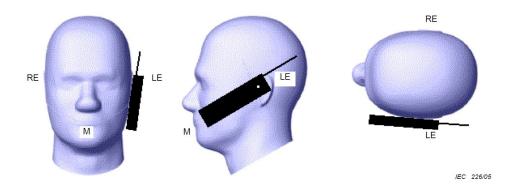


6.1.2 Cheek Position

- (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.

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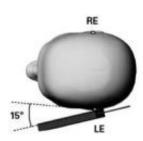


6.1.3 Tilted Position

- (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.







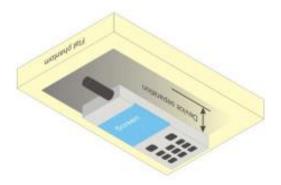


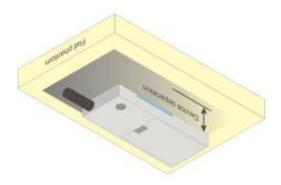
6.2 Body-worn Position Conditions

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.

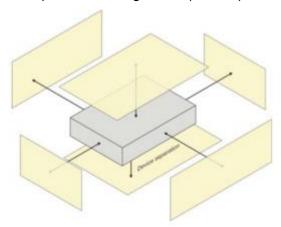






6.3 Hotspot Mode Exposure Position Conditions

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 bodyworn 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 \leq 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.

6

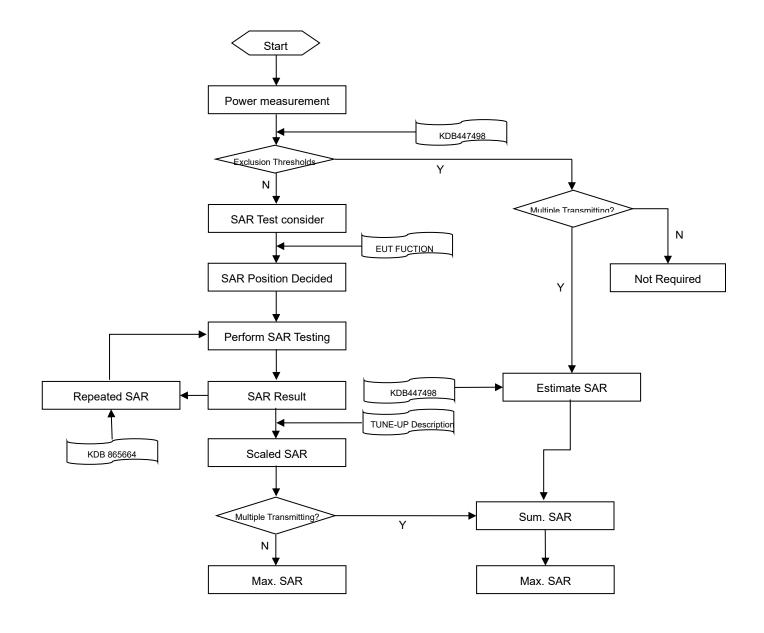
6.

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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. Boththe 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 o		•	5±1 mm	½·δ·ln(2)±0.5 mm	
(geometric center of prob Maximum probe angle fro normal at the measurement	om probe ax		30°±1°	20°±1°	
			\leq 2 GHz: \leq 15 mm 3–4 GHz: \leq 12 mm 2 – 3 GHz: \leq 12 mm 4 – 6 GHz: \leq 10 mm When the x or y dimension of the test device, in the		
Maximum area scan spat	tial resolution	n: Δx Area , Δy Area		n, is smaller than the above, ust be ≤ the corresponding x or with at least one measurement	
Maximum zoom scan spa	atial resolutio	on: Δx Zoom , Δy Zoom	≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	unifor	m grid: Δz Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm 4–5 GHz: ≤ 3 mm 5–6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	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	
grid Δz Zoom (n>1): between subsequent points			≤ 1.5·∆z 2	Zoom (n-1)	
Minimum zoom scan volume		x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm 4–5 GHz: ≥ 25 mm 5–6 GHz: ≥ 22 mm	

Note:

- 1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- 2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



7.3 Measurement Procedure

The following steps are used for each test position

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

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below. When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



8 TEST EXCLUSION CONSIDERATION

Please refer the document "BL-SZ2441470-AI EUT internal photo.pdf".



9 TEST RESULT

9.1 Worst Case for RMX3930 of WCDMA Band 2

Antenna Hotspot	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
Ant.1	State4	RMC	Top Edge	10	9538	1907.6	-0.08	0.891	19.56	20.00	1.107	0.986	1#

9.2 Worst Case for RMX3930 of LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State1&2	QPSK	Right Tilt	0	19100	1900	1	Low	-0.11	0.787	17.34	18.00	1.164	0.916	2#
Body-wor	rn														
Ant.1	State3	QPSK	Back Side	15	19100	1900	1	Mid	-0.18	0.476	20.99	21.50	1.125	0.536	3#
Note: Refe	er to ANNEX C	for the de	etailed test data	for each	est config	uration.									

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.1	State3	QPSK	Top Edge	0	18900	1880	1	Mid	0.09	2.100	20.39	21.00	1.151	2.417	4#
Note: Refe	er to ANNEX C	for the de	etailed test data fo	r each tes	t configura	ation.	•								

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10 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		RF		Highest	Repeated	Repeated1th	Largest to
Band	Wireless Band	Exposure	Test Position	Measured SAR	SAR	Measured SAR	Smallest SAR
(MHz)		Conditions		(W/kg)	(Yes/No)	(W/kg)	Radio
1900	WCDMA Band 2	Head	Right Tilt	0.819	Yes	0.808	1.01
1900	LTE Band 2	Head	Right Tilt	0.878	Yes	0.855	1.03
1900	LTE Band 2	Body	Top Edge 10mm	0.943	Yes	0.915	1.03
1900	LTE Band 2	Body	Top Edge 0mm	2.420	Yes	2.320	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.



11 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
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2021/05/20	2024/05/20
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/04
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2024/01/03	2025/01/03
Signal Generator	R&S	SMB100A	177746	2024/04/26	2025/04/26
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/05
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/05
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/05
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2023/06/29	2024/06/29
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4HC	EF5238001628	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	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 a DAK3.5 Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp.	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2022.05.14	Head	1900	21.5	1.37	40.12	1.40	40.00	-2.14	0.30
2022.05.15	Head	1900	21.7	1.38	40.47	1.40	40.00	-1.43	1.18

Note: The tolerance limit of Conductivity and Permittivity is± 5%.



ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Data	Liquid	Freq.	Power	Measured	Normalized	Dipole SAR	Tolerance					
Date	Туре	(MHz)	(mW)	SAR (W/kg)	SAR (W/kg)	(W/kg)	(%)					
2022.05.14	Head	1900	100	3.99	39.90	40.30	-0.99					
2022.05.15	Head	1900	100	3.95	39.50	40.30	-1.99					
Note: The toler	Note: The tolerance limit of System validation +10%											

Note: The tolerance limit of System validation ±10%.



Head liquid 10g

Date	Freq.	Power	Measured	Normalized SAR	Dipole SAR	Tolerance
	(MHz)	(mW)	SAR (W/kg)	(W/kg)	(W/kg)	(%)
2022.05.14	1900	100	2.050	20.50	20.30	0.99
2022.05.15	1900	100	2.100	21.00	20.30	3.45
Note: The tolerance limit of System validation ±10%.						



System Performance Check Data (1900MHz)

Date: 2024.05.14

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.368$ S/m; $\varepsilon_r = 40.118$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 ℃ Liquid Temperature:21.5 ℃

DASY5 Configuration:

- Probe: EX3DV4 SN7607; ConvF(7.98, 8.26, 8.14); Calibrated: 2023.07.04;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.65 W/kg

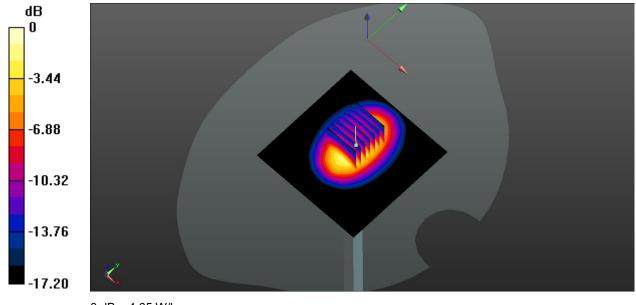
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.15 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.55 W/kg

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 4.65 W/kg



0 dB = 4.65 W/kg



System Performance Check Data (1900MHz)

Date: 2024.05.15

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.474$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 ℃ Liquid Temperature:21.7 ℃

DASY5 Configuration:

- Probe: EX3DV4 SN7607; ConvF(7.98, 8.26, 8.14); Calibrated: 2023.07.04;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.55 W/kg

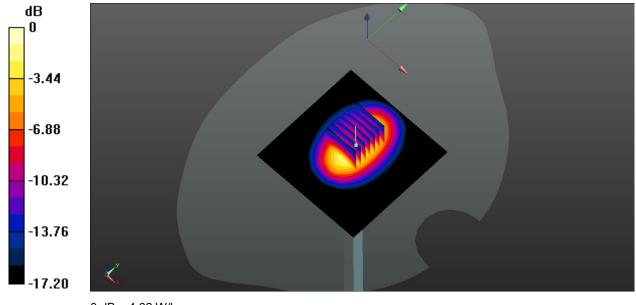
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.16 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 7.45 W/kg

SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.10 W/kg

Maximum value of SAR (measured) = 4.62 W/kg



0 dB = 4.62 W/kg



ANNEX C TEST DATA

Meas1.Body Plane with Top Edge 10mm on High Channel in WCDMA Band2 mode With Antenna 1

Date: 2024.05.14

Communication System Band: BAND 2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.371 S/m; ϵ_r = 39.877; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 ℃ Liquid Temperature:21.5 ℃

DASY5 Configuration:

Probe: EX3DV4 - SN7607; ConvF(7.98, 8.26, 8.14); Calibrated: 2023.07.04;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1710; Calibrated: 2024.01.03

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538 2/Area Scan (51x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

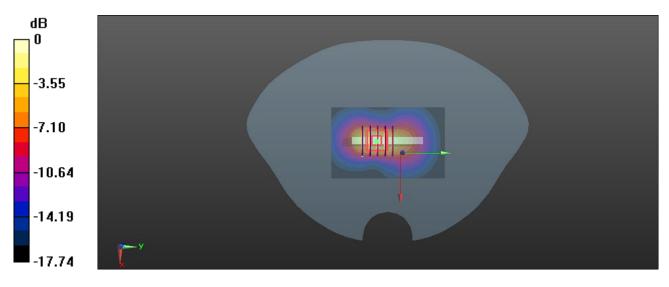
Ch9538 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.03 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.891 W/kg; SAR(10 g) = 0.435 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg

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Meas2.Right Head with Tilted on High Channel LTE Band2 mode with Antenna 1

Date: 2024.05.15

Communication System Band: BAND 2; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.376 S/m; ϵ_r = 40.474; ρ = 1000 kg/m³

Phantom section: Right Section

Ambient Temperature:22.3℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 SN7607; ConvF(7.98, 8.26, 8.14); Calibrated: 2023.07.04;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.872 W/kg

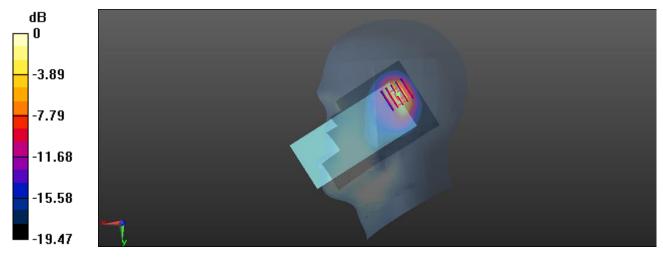
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.93 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.360 W/kg

Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.916 W/kg



Meas3.Body Plane with Back Side 15mm on High Channel in LTE Band2 mode With Antenna 1

Date: 2024.05.15

Communication System Band: BAND 2; Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.376 S/m; ϵ_r = 40.474; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 SN7607; ConvF(7.98, 8.26, 8.14); Calibrated: 2023.07.04;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

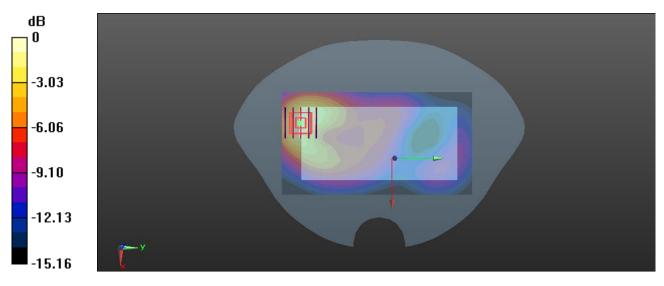
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.608 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.527 W/kg



0 dB = 0.527 W/kg



Meas4.Body Plane with Top Edge 0mm on Middle Channel in LTE Band2 mode With Antenna 1

Date: 2024.05.15

Communication System Band: BAND 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.373 S/m; ϵ_r = 40.677; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 SN7607; ConvF(7.98, 8.26, 8.14); Calibrated: 2023.07.04;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18900 2/Area Scan (51x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.99 W/kg

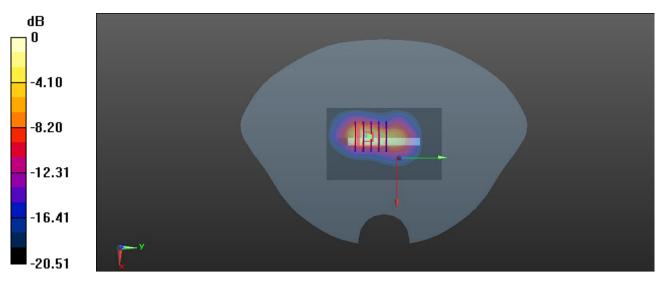
Ch18900 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 45.40 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 6.77 W/kg



0 dB = 6.77 W/kg



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ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2441470-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2441470-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "BL-SZ2441470-AC.pdf".



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