

FCC SAR EVALUATION REPORT

In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013

Product Name : Smartphone

Brand Name : HOTWAV, iHunt, 

Model Name : T7

Family Model : T7E, T7S, T7 Pro, T7 Plus, T7 Ultra,
T7 Max, T8, T8 Max, T8 Plus, T8 Ultra,
T9, T9 Pro, T9 Max, T10, T10 Pro, T10 Max,
Titan P8000 Ultra Carbon

Report No. : S23122504406001

FCC ID : 2AOKUT7

Prepared for

SHENZHEN TUGAO INTELLIGENT CO.,LTD

8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong,
Bao'an District, Shenzhen, China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,
Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090

Website: <http://www.ntek.org.cn>

TEST RESULT CERTIFICATION**Applicant's name** SHENZHEN TUGAO INTELLIGENT CO.,LTD

Address 8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China

Manufacturer's Name . SHENZHEN TUGAO INTELLIGENT CO.,LTD

Address 8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China

Product description

Product name Smartphone

Brand Name HOTWAV, iHunt, Model and/or type
reference T7Family Model T7E, T7S, T7 Pro, T7 Plus, T7 Ultra, T7 Max, T8, T8 Max, T8 Plus, T8 Ultra, T9, T9 Pro, T9 Max, T10, T10 Pro, T10 Max, Titan P8000 Ultra Carbon
FCC 47 CFR Part 2(2.1093)

ANSI/IEEE C95.1-1992

Standards IEEE Std 1528-2013

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

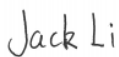
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Test Sample Number S231225044007

Date of Test

Date (s) of performance of tests.. Jan. 02, 2024 ~ Jan. 19, 2024

Date of Issue..... Mar. 04, 2024

Test Result..... **Pass**Prepared By : 
By : Jack Li
(Project Engineer)Reviewed By : 
By : Aaron Cheng
(Supervisor)Approved By : 
By : Alex Li
(Manager)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Mar. 04, 2024	Jack Li

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1. General Information

1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

General Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

NOTE

Localized Head, Neck and Trunk LIMIT

1.6 W/kg

APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for T7 are as follows.

RF Exposure Conditions		Max Reported SAR Value(W/kg)
1-g Head		0.174
1-g Body-Worn (Separation distance of 10mm)		0.414
1-g Hotspot (Separation distance of 10mm)		0.414
Max Simultaneous Tx	Head	0.337
	Body-Worn	0.505
	Hotspot	0.505

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information			
Product Name	Smartphone		
Brand Name	HOTWAV, iHunt, 		
Model Name	T7		
Family Model	T7E, T7S, T7 Pro, T7 Plus, T7 Ultra, T7 Max, T8, T8 Max, T8 Plus, T8 Ultra, T9, T9 Pro, T9 Max, T10, T10 Pro, T10 Max, Titan P8000 Ultra Carbon		
Model Difference	All models are the same circuit and RF module, except for model names.		
FCC ID	2AOKUT7		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	PIFA Antenna		
Battery Information	DC 3.87V,6280mAh, 24.30Wh		
HW Version	N/A		
SW Version	N/A		
Device Operating Configurations			
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7/12/13/17/26A/26B/41/66, WLAN 2.4G/5G, Bluetooth,NFC		
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK), NFC(ASK)		
Device Class	B		
Operating Frequency	Band	Tx (MHz)	Rx (MHz)

Range(s)	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 26A	814-824	859-869
	LTE Band 26B	824-849	869-894
	LTE Band 41	2535-2655	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
	NFC	13.56	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 26A)		

	3, tested with power control all Max.(LTE Band 26B)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(LTE Band 66)

1.4. Test specification(s)

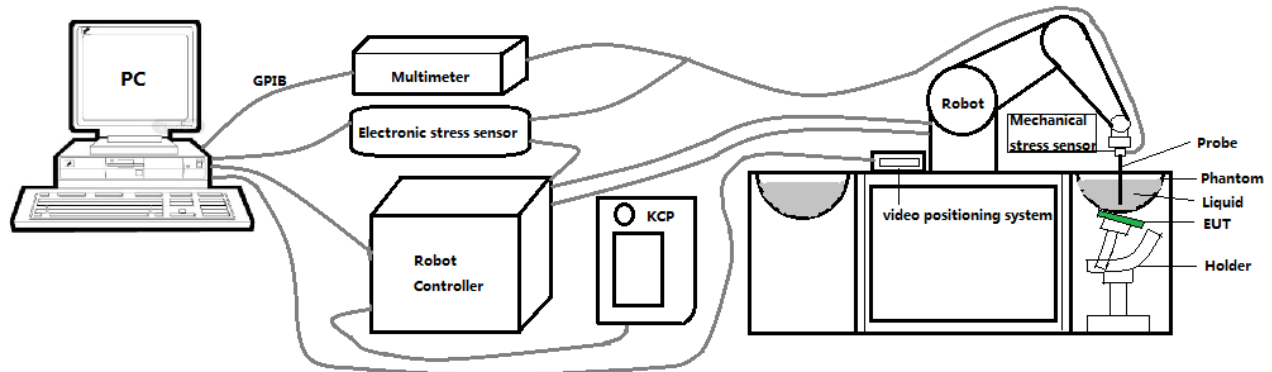
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR
KDB 648474 D04 Handset SAR

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 3423-EPGO-426 with following specifications is used



- Dynamic range: 0.01-100 W/kg
 - Tip Diameter : 2.5 mm
 - Distance between probe tip and sensor center: 1 mm
 - Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
 - Probe linearity: ± 0.06 dB
 - Axial isotropy: ± 0.01 dB
 - Hemispherical Isotropy: ± 0.01 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 8mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. SAM phantoms

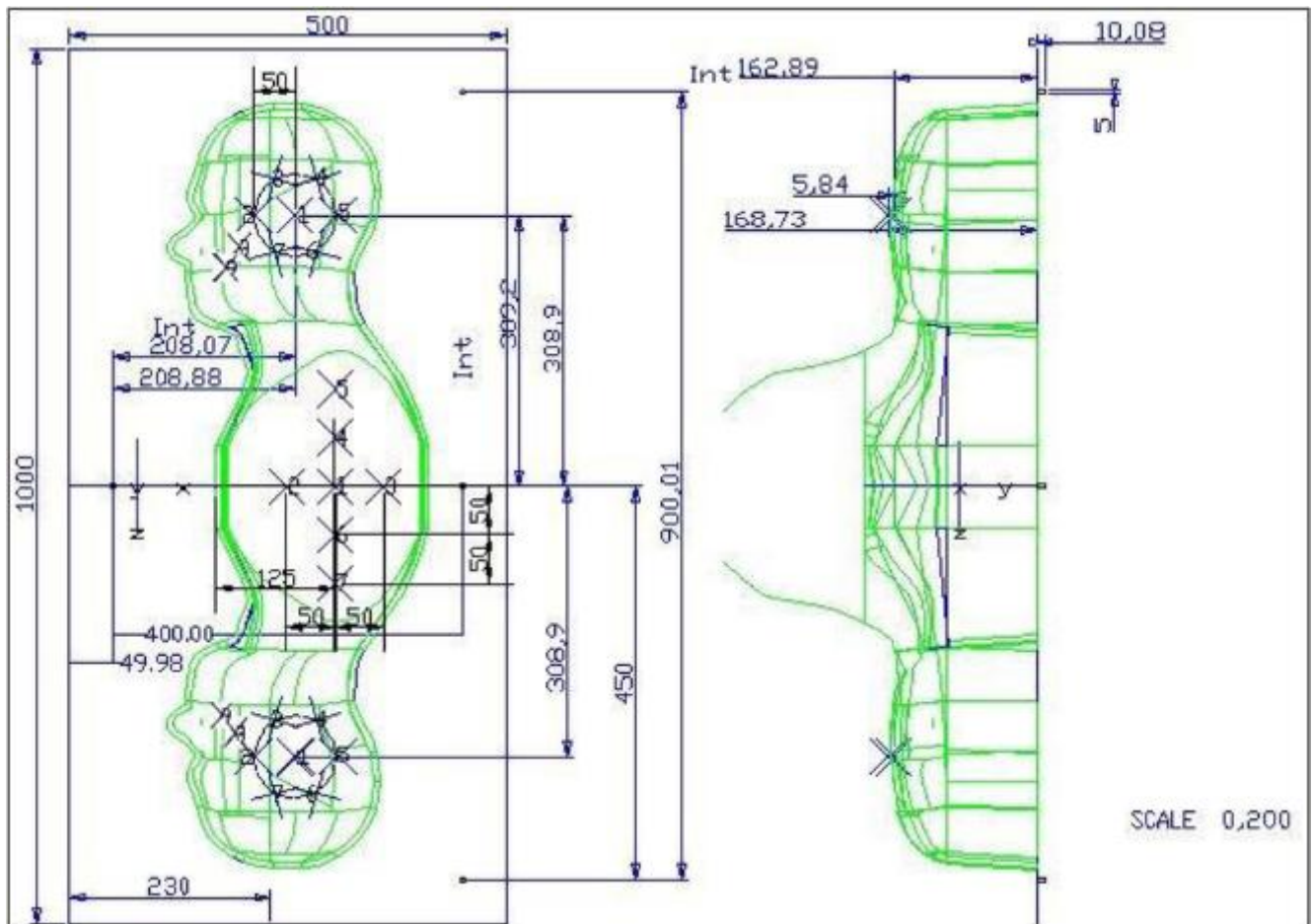
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Smart Phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm $\pm$ 0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

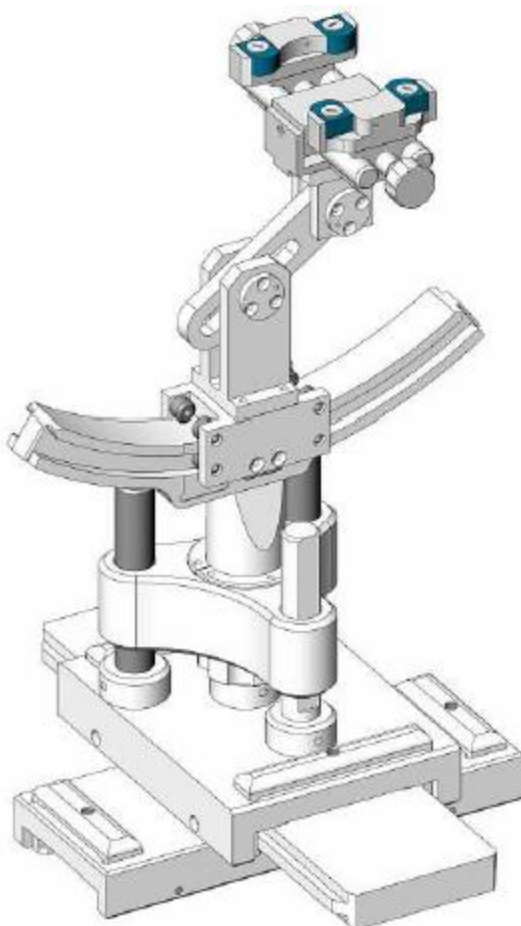


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 μ m.

2.5. Device Holder

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



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	3423-EPGO-426	Sep. 18, 2023	Sep. 17, 2024
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
☒	R&S	Universal radio communication tester	CMU200	117858	May 29, 2023	May 28, 2024
☒	R&S	Wideband radio communication	CMW500	103917	May 29, 2023	May 28, 2024

		tester				
☒	HP	Network Analyzer	8753D	3410J01136	May 29, 2023	May 28, 2024
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	May 29, 2023	May 28, 2024
☒	Agilent	Power meter	E4419B	MY45102538	May 29, 2023	May 28, 2024
☒	Agilent	Power sensor	E9301A	MY41495644	May 29, 2023	May 28, 2024
☒	Agilent	Power sensor	E9301A	US39212148	May 29, 2023	May 28, 2024
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 04, 2023	Jul. 03, 2024
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 750	Head 750	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 835	Head 835	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1800	Head 1800	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1900	Head 1900	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 2450	Head 2450	NCR	NCR

	Co., Ltd.					
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 2600	Head 2600	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 5200	Head 5200	NCR	NCR
☒	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 5800	Head 5800	NCR	NCR

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 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. 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.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
			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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

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

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

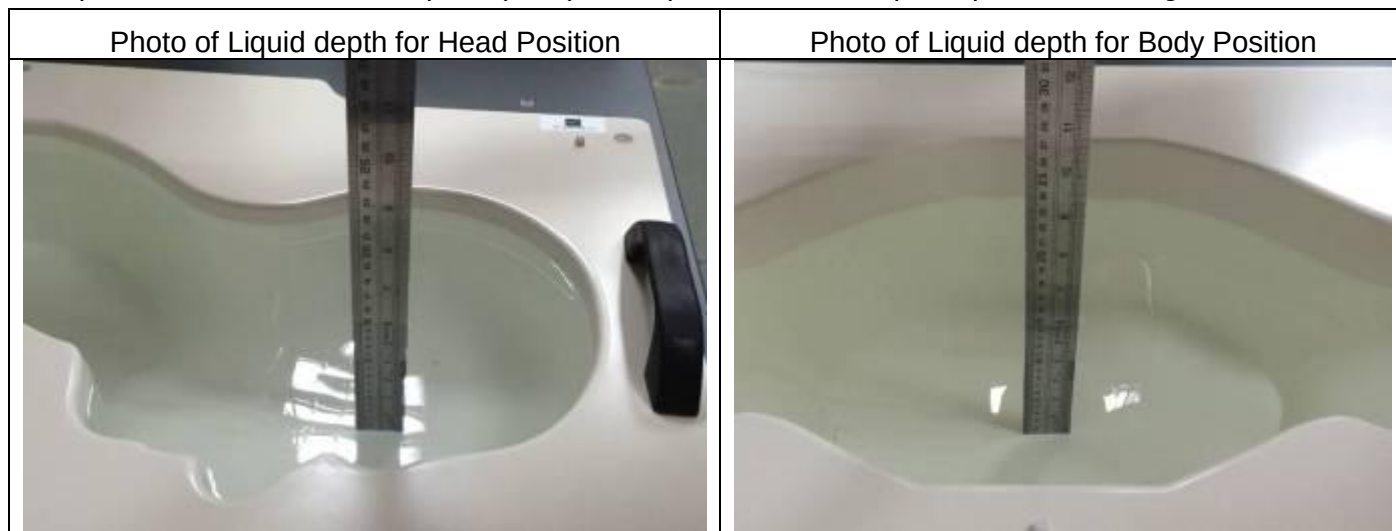
4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
Frequency Band (MHz)										
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

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 depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.



4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

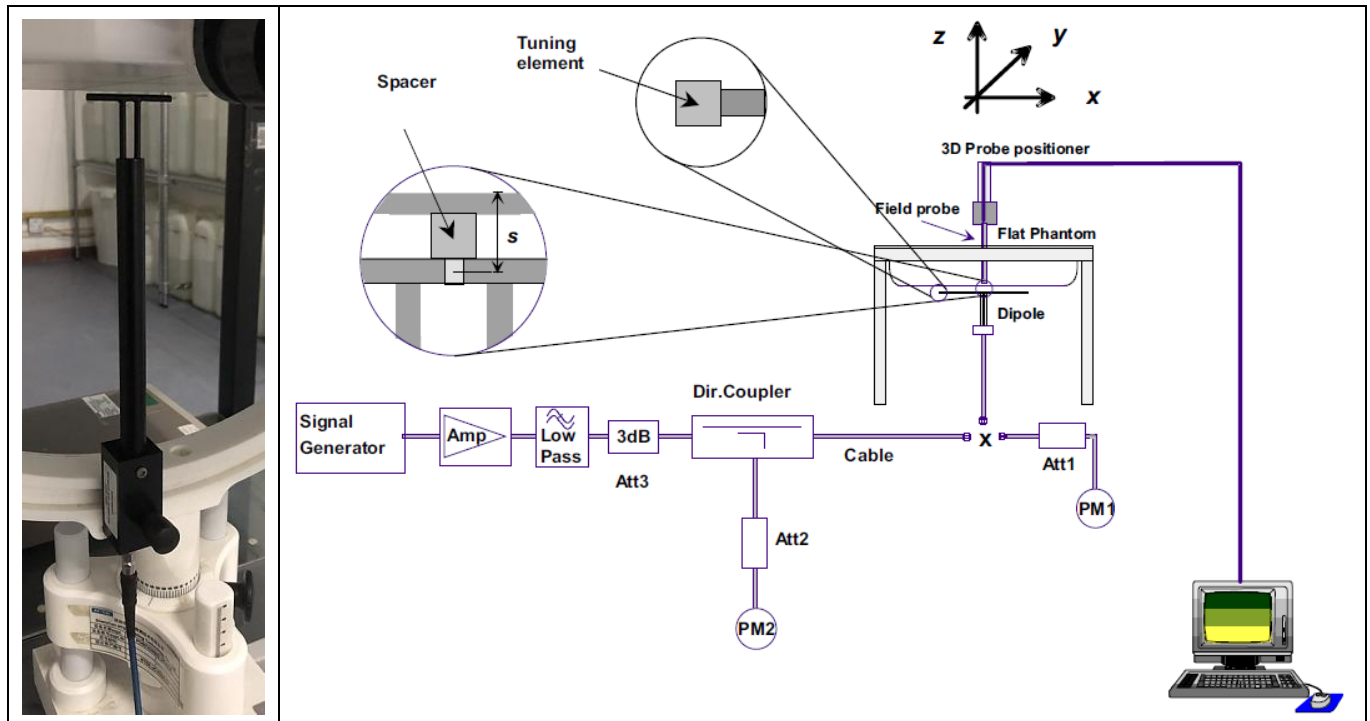
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.55	0.91	21.2 °C	Jan. 19, 2024
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.26	0.89	21.5 °C	Jan. 10, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.54	1.39	21.1 °C	Jan. 08, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.13	1.46	21.3 °C	Jan. 11, 2024
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.16	1.77	21.1 °C	Jan. 09, 2024
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.67	1.94	21.4 °C	Jan. 18, 2024
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.22	4.51	21.6 °C	Jan. 02, 2024
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.65	5.20	21.6 °C	Jan. 15, 2024

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100mW (below 5GHz) or 100mW (above 5GHz). To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of $\pm 10\%$. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Target SAR (1W)		Measured SAR		Liquid Temp.	Delta (%)		Test Date
	(±10%)		(Normalized to 1W)			1-g (±10%)	10-g (±10%)	
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)				
750MHz	8.53 (7.68~9.38)	5.56 (5.01~6.11)	7.76	5.30	21.2 °C	-9.03%	-4.68%	Jan. 19, 2024
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	10.35	5.93	21.5 °C	5.18%	-4.66%	Jan. 10, 2024
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	37.53	19.93	21.1 °C	-1.13%	0.61%	Jan. 08, 2024
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	38.82	21.60	21.3 °C	-3.84%	5.47%	Jan. 11, 2024
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	55.46	26.02	21.1 °C	3.30%	8.69%	Jan. 09, 2024
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	50.89	22.87	21.4 °C	-8.85%	-5.46%	Jan. 18, 2024
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	156.88	56.76	21.6 °C	-3.36%	2.42%	Jan. 02, 2024
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	166.38	62.20	21.6 °C	-6.99%	4.86%	Jan. 15, 2024

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The 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.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only 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 ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Ear and handset reference point

Figure 6.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M”, the left ear reference point (ERP) is marked “LE”, and the right ERP is marked “RE”.

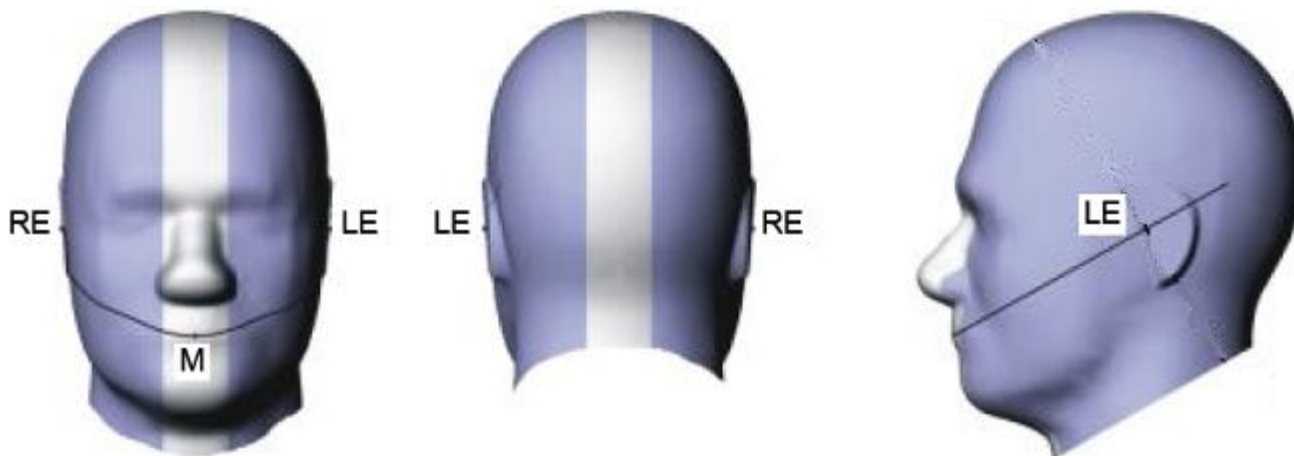


Fig 6.1.1 Front, back, and side views of SAM phantom

6.2. Definition of the cheek position

1. Define two imaginary lines on the handset, the vertical centerline and the horizontal line. The vertical centerline 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 (point A in Figure 6.2.1 and Figure 6.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 6.2.1). 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 centerline is not necessarily parallel to the front face of the handset (see Figure 6.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
2. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
3. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP
4. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
5. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.

6. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 6.2.3. The actual rotation angles should be documented in the test report.

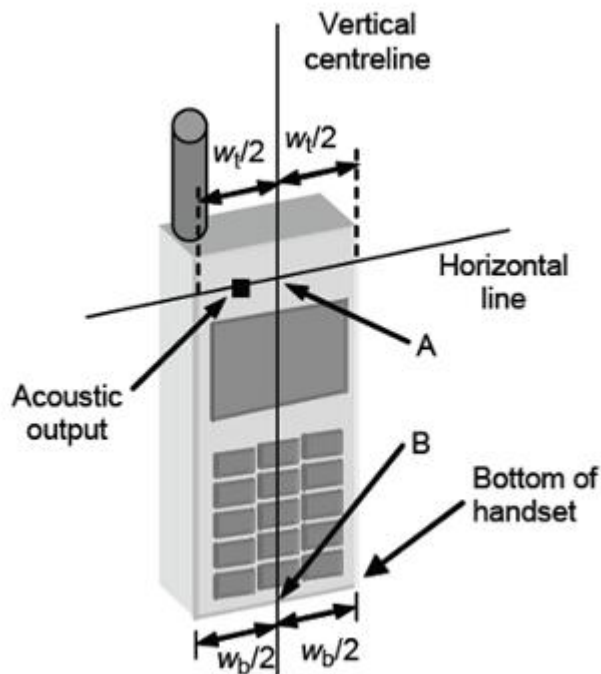


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

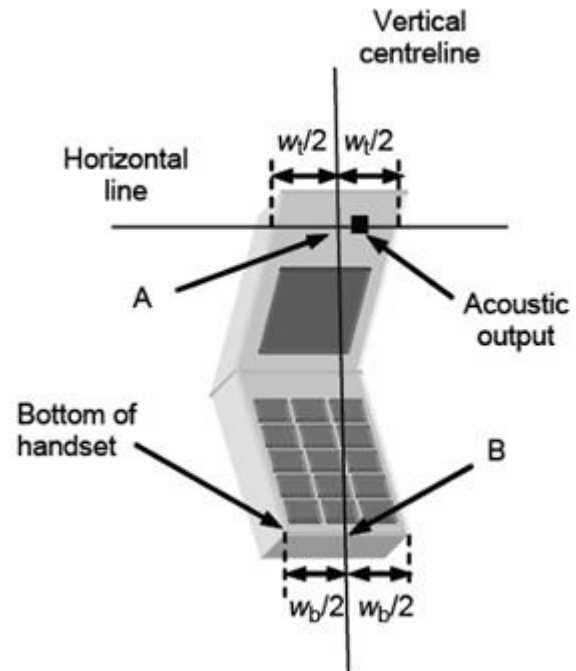


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

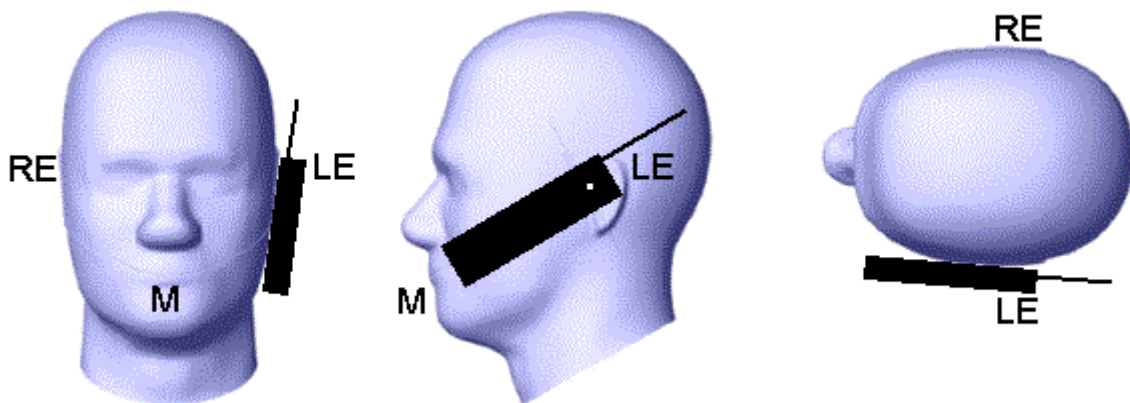


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

1. While maintaining the orientation of the handset, retract the handset parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15 degree.
2. Rotate the Handset around the horizontal line by 15 degree (see Figure 6.3.1).
3. While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g., the antenna with the back of the phantom head, the angle of the handset shall be reduced. In this case, the tilt position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is in contact with the phantom, e.g., the antenna with the back of the head.

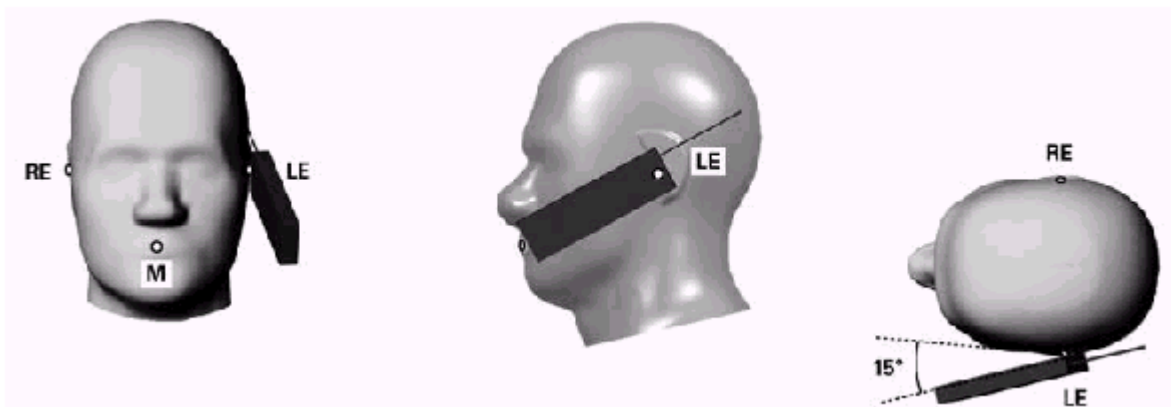


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, 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 FCC KDB 447498 D01 should be 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 applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $< 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest

spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

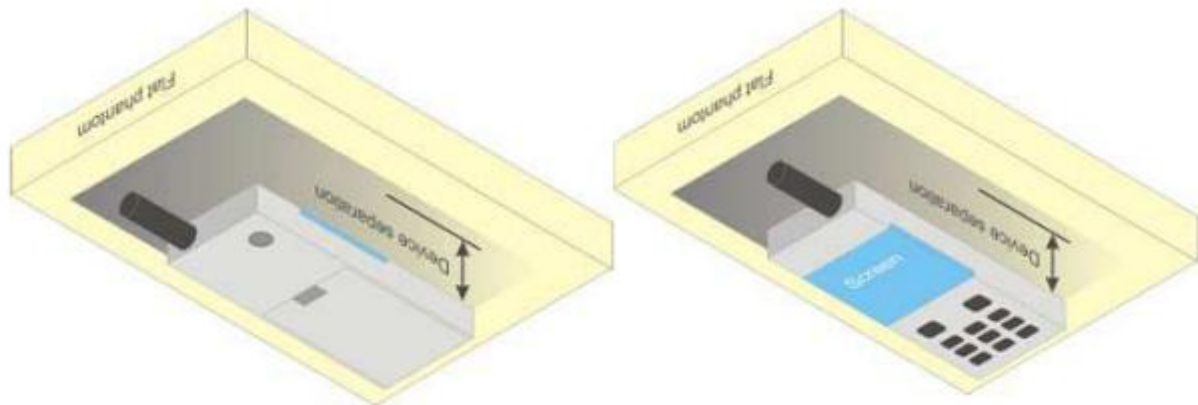


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251	Tune-up	128	189	251
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8
GSM (GMSK)	33.00	32.49	32.60	32.61	23.97	23.46	23.57	23.58
GPRS(GMSK,1 Tx slot)	33.00	32.42	32.24	32.56	23.97	23.39	23.21	23.53
GPRS(GMSK,2 Tx slot)	32.00	31.59	31.60	31.63	25.98	25.57	25.58	25.61
GPRS(GMSK,3 Tx slot)	30.00	29.71	29.70	29.74	25.74	25.45	25.44	25.48
GPRS(GMSK,4 Tx slot)	28.50	28.36	28.45	28.47	25.49	25.35	25.44	25.46
EGPRS(8PSK,1 Tx slot)	27.50	27.10	26.66	26.67	18.47	18.07	17.63	17.64
EGPRS(8PSK,2 Tx slot)	26.50	26.17	25.58	25.79	20.48	20.15	19.56	19.77
EGPRS(8PSK,3 Tx slot)	24.00	23.95	23.79	23.50	19.74	19.69	19.53	19.24
EGPRS(8PSK,4 Tx slot)	23.00	22.69	22.16	22.48	19.99	19.68	19.15	19.47

Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810	Tune-up	512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	30.50	30.19	30.26	30.14	21.47	21.16	21.23	21.11
GPRS(GMSK,1 Tx slot)	30.50	30.05	30.14	30.06	21.47	21.02	21.11	21.03
GPRS(GMSK,2 Tx slot)	29.50	29.12	29.14	29.04	23.48	23.10	23.12	23.02
GPRS(GMSK,3 Tx slot)	27.50	27.20	27.23	27.08	23.24	22.94	22.97	22.82
GPRS(GMSK,4 Tx slot)	26.50	26.05	25.99	25.88	23.49	23.04	22.98	22.87
EGPRS(8PSK,1 Tx slot)	27.00	26.25	26.46	26.70	17.97	17.22	17.43	17.67
EGPRS(8PSK,2 Tx slot)	25.50	24.81	25.10	25.05	19.48	18.79	19.08	19.03
EGPRS(8PSK,3 Tx slot)	23.00	22.42	22.44	22.58	18.74	18.16	18.18	18.32
EGPRS(8PSK,4 Tx slot)	21.50	21.40	21.26	21.38	18.49	18.39	18.25	18.37

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	24.50	24.08	24.15	24.13
HSDPA Sub 1	23.50	23.10	23.22	23.21

HSDPA Sub 2	23.00	22.69	22.79	22.91
HSDPA Sub 3	22.50	21.64	22.05	21.70
HSDPA Sub 4	22.00	21.58	21.73	21.73
HSUPA Sub 1	23.00	22.10	22.96	22.87
HSUPA Sub 2	23.50	22.90	23.05	22.86
HSUPA Sub 3	22.00	21.24	21.97	21.77
HSUPA Sub 4	23.50	23.04	23.15	23.15
HSUPA Sub 5	23.00	21.63	22.43	22.50
WCDMA Band 4	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	24.50	24.21	24.11	23.99
HSDPA Sub 1	23.50	23.29	23.15	23.06
HSDPA Sub 2	23.00	22.96	22.55	22.65
HSDPA Sub 3	21.50	21.42	21.40	21.26
HSDPA Sub 4	22.00	21.78	21.73	21.46
HSUPA Sub 1	23.00	22.28	22.95	22.90
HSUPA Sub 2	23.50	23.08	22.96	22.87
HSUPA Sub 3	22.00	21.40	21.77	21.78
HSUPA Sub 4	23.50	23.24	23.12	23.03
HSUPA Sub 5	22.50	21.91	22.34	22.48
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	23.50	23.06	23.16	23.12
HSDPA Sub 1	22.50	22.13	22.23	22.17
HSDPA Sub 2	22.00	21.80	21.86	21.59
HSDPA Sub 3	21.00	20.82	20.44	20.70
HSDPA Sub 4	21.00	20.50	20.65	20.22
HSUPA Sub 1	22.50	21.11	22.10	22.00
HSUPA Sub 2	22.50	22.09	22.07	22.04
HSUPA Sub 3	21.00	20.52	20.98	20.81
HSUPA Sub 4	22.50	22.13	22.24	22.19
HSUPA Sub 5	22.00	20.83	21.53	21.54

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.78	23.62	23.69
			1	2	24.00	23.91	23.75	23.80
			1	5	24.00	23.80	23.65	23.69
			3	0	24.00	23.90	23.73	23.81
			3	1	24.00	23.92	23.78	23.83
			3	2	24.00	23.90	23.74	23.82
			6	0	23.00	22.93	22.78	22.84
		16QAM	1	0	23.50	22.99	22.95	22.91
			1	2	23.50	23.11	23.07	23.08
			1	5	23.50	22.98	22.82	22.95
			3	0	23.00	22.81	22.68	22.72
			3	1	23.00	22.77	22.77	22.75
			3	2	23.00	22.83	22.68	22.75
			6	0	22.00	21.96	21.81	21.89
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.00	23.91	23.75	23.80
			1	7	24.00	23.92	23.78	23.85
			1	14	24.00	23.89	23.79	23.84
			8	0	23.00	22.94	22.83	22.86
			8	4	23.00	22.97	22.86	22.89
			8	7	23.00	22.94	22.84	22.87
			15	0	23.00	22.98	22.86	22.91
		16QAM	1	0	23.50	23.06	22.95	22.95
			1	7	23.50	23.12	23.02	23.01
			1	14	23.50	23.00	23.04	23.09
			8	0	22.00	21.97	21.89	21.92
			8	4	22.00	21.97	21.89	21.93
			8	7	22.00	21.98	21.89	21.91
			15	0	22.00	21.93	21.82	21.87
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	24.00	23.71	23.59	23.61
			1	12	24.00	23.83	23.71	23.76
			1	24	24.00	23.67	23.62	23.67
			12	0	23.00	22.85	22.73	22.80
			12	6	23.00	22.92	22.80	22.84
			12	11	23.00	22.83	22.73	22.79
			25	0	23.00	22.87	22.74	22.81
		16QAM	1	0	23.50	22.92	22.88	22.88
			1	12	23.50	23.04	22.97	23.01
			1	24	23.50	22.86	22.93	22.88
			12	0	22.00	21.77	21.70	21.78
			12	6	22.00	21.86	21.76	21.82
			12	11	22.00	21.78	21.71	21.77
			25	0	22.00	21.81	21.74	21.80
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.00	23.79	23.63	23.62
			1	24	24.00	23.94	23.85	23.83
			1	49	24.00	23.68	23.66	23.72
			25	0	23.00	22.94	22.80	22.89
			25	12	23.00	22.96	22.84	22.85
			25	24	23.00	22.90	22.81	22.79
			50	0	23.00	22.95	22.83	22.87
		16QAM	1	0	23.50	23.01	22.86	22.80
			1	24	23.50	23.14	23.06	23.06
			1	49	23.50	22.92	22.82	23.01
			25	0	22.00	21.89	21.80	21.89
			25	12	22.00	21.91	21.84	21.84
			25	24	22.00	21.87	21.82	21.78
			50	0	22.00	21.90	21.80	21.84
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band	15MHz	QPSK	1	0	24.00	23.68	23.45	23.51
			1	37	24.00	23.79	23.73	23.67

2			1	74	24.00	23.46	23.56	23.60
			36	0	23.00	22.84	22.73	22.78
			36	18	23.00	22.86	22.80	22.77
			36	37	23.00	22.74	22.74	22.70
			75	0	23.00	22.80	22.73	22.75
		16QAM	1	0	23.00	22.90	22.72	22.73
			1	37	23.00	22.98	22.97	22.86
			1	74	23.00	22.60	22.81	22.84
			36	0	22.00	21.78	21.68	21.70
			36	18	22.00	21.79	21.77	21.73
			36	37	22.00	21.68	21.69	21.63
			75	0	22.00	21.74	21.74	21.71
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.00	23.54	23.33	23.46
			1	49	24.00	23.77	23.79	23.78
			1	99	24.00	23.32	23.45	23.49
			50	0	23.00	22.81	22.75	22.84
			50	24	23.00	22.84	22.80	22.79
			50	49	23.00	22.71	22.78	22.57
			100	0	23.00	22.73	22.72	22.68
		16QAM	1	0	23.50	22.75	22.57	22.68
			1	49	23.50	23.00	23.08	22.88
			1	99	23.50	22.58	22.57	22.69
			50	0	22.00	21.79	21.73	21.79
			50	24	22.00	21.79	21.77	21.76
			50	49	22.00	21.68	21.73	21.54
			100	0	22.00	21.67	21.69	21.64

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	24.50	24.28	24.09	23.87
			1	2	24.50	24.43	24.25	23.98
			1	5	24.50	24.31	24.11	23.88
			3	0	24.50	24.39	24.21	23.99
			3	1	24.50	24.47	24.25	24.01

				3	2	24.50	24.42	24.20	23.97
				6	0	23.50	23.45	23.25	22.99
				1	0	24.00	23.55	23.45	23.00
				1	2	24.00	23.67	23.46	23.21
				1	5	24.00	23.48	23.47	23.07
				3	0	23.50	23.28	23.22	22.90
				3	1	23.50	23.41	23.28	22.98
				3	2	23.50	23.39	23.24	22.92
				6	0	22.50	22.49	22.35	22.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5	
LTE Band 4	3MHz	QPSK	1	0	24.50	24.42	24.25	24.01	
			1	7	24.50	24.40	24.23	24.05	
			1	14	24.50	24.42	24.24	24.00	
			8	0	24.00	23.49	23.31	23.05	
			8	4	24.00	23.53	23.33	23.07	
			8	7	24.00	23.52	23.29	23.03	
			15	0	24.00	23.53	23.32	23.08	
		16QAM	1	0	24.00	23.60	23.53	23.12	
			1	7	24.00	23.60	23.52	23.12	
			1	14	24.00	23.65	23.56	23.20	
			8	0	23.00	22.53	22.39	22.09	
			8	4	23.00	22.58	22.42	22.12	
			8	7	23.00	22.56	22.38	22.09	
			15	0	23.00	22.52	22.34	22.08	
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5	
LTE Band 4	5MHz	QPSK	1	0	24.50	24.21	24.08	23.83	
			1	12	24.50	24.33	24.19	23.97	
			1	24	24.50	24.24	24.09	23.83	
			12	0	23.50	23.40	23.23	23.00	
			12	6	23.50	23.49	23.28	23.05	
			12	11	23.50	23.42	23.20	22.96	
			25	0	23.50	23.44	23.23	23.00	
		16QAM	1	0	24.00	23.43	23.33	22.97	
			1	12	24.00	23.62	23.40	23.22	

			1	24	24.00	23.58	23.34	23.10
			12	0	23.00	22.38	22.20	21.94
			12	6	23.00	22.50	22.28	21.99
			12	11	23.00	22.40	22.20	21.94
			25	0	22.50	22.42	22.25	21.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	25.00	24.28	24.14	23.99
			1	24	25.00	24.50	24.29	24.07
			1	49	25.00	24.24	24.12	23.87
			25	0	24.00	23.49	23.30	23.13
			25	12	24.00	23.52	23.32	23.11
			25	24	24.00	23.51	23.31	23.04
			50	0	24.00	23.50	23.33	23.11
		16QAM	1	0	24.00	23.58	23.38	23.22
			1	24	24.00	23.72	23.53	23.35
			1	49	24.00	23.54	23.36	23.09
			25	0	23.00	22.47	22.30	22.12
			25	12	23.00	22.50	22.35	22.08
			25	24	23.00	22.51	22.31	22.05
			50	0	23.00	22.50	22.30	22.07
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	24.50	24.16	24.02	23.88
			1	37	24.50	24.33	24.18	23.99
			1	74	24.50	24.08	23.92	23.74
			36	0	23.50	23.39	23.23	23.10
			36	18	23.50	23.46	23.27	23.11
			36	37	23.50	23.37	23.19	22.99
			75	0	23.50	23.39	23.23	23.06
		16QAM	1	0	24.00	23.37	23.37	23.12
			1	37	24.00	23.57	23.45	23.16
			1	74	24.00	23.30	23.24	22.93
			36	0	22.50	22.34	22.20	22.06
			36	18	22.50	22.41	22.26	22.05
			36	37	22.50	22.33	22.16	21.94

			75	0	22.50	22.36	22.21	22.02
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	24.50	24.00	23.90	23.83
			1	49	24.50	24.36	24.25	24.12
			1	99	24.50	23.90	23.79	23.63
			50	0	23.50	23.34	23.22	23.14
			50	24	23.50	23.40	23.27	23.15
			50	49	23.50	23.31	23.20	23.01
			100	0	23.50	23.31	23.23	23.07
		16QAM	1	0	24.00	23.29	23.16	23.07
			1	49	24.00	23.72	23.60	23.36
			1	99	24.00	23.27	23.10	22.79
			50	0	22.50	22.32	22.23	22.11
			50	24	22.50	22.38	22.27	22.13
			50	49	22.50	22.29	22.19	21.99
			100	0	22.50	22.31	22.19	22.03

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	24.00	23.44	23.56	23.57
			1	2	24.00	23.55	23.65	23.66
			1	5	24.00	23.41	23.52	23.52
			3	0	24.00	23.52	23.62	23.65
			3	1	24.00	23.54	23.66	23.65
			3	2	24.00	23.49	23.64	23.64
			6	0	23.00	22.55	22.64	22.71
		16QAM	1	0	23.00	22.66	22.72	22.76
			1	2	23.00	22.72	22.86	22.89
			1	5	23.00	22.62	22.75	22.66
			3	0	23.00	22.46	22.58	22.58
			3	1	23.00	22.53	22.60	22.59
			3	2	23.00	22.38	22.61	22.59
			6	0	22.00	21.57	21.73	21.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	24.00	23.52	23.62	23.77
			1	7	24.00	23.51	23.67	23.73
			1	14	24.00	23.51	23.67	23.63
			8	0	23.00	22.56	22.65	22.80
			8	4	23.00	22.58	22.72	22.79
			8	7	23.00	22.53	22.70	22.71
			15	0	23.00	22.55	22.71	22.78
		16QAM	1	0	23.50	22.71	22.92	23.05
			1	7	23.50	22.72	22.99	22.99
			1	14	23.50	22.79	22.82	22.77
			8	0	22.00	21.60	21.71	21.88
			8	4	22.00	21.64	21.80	21.87
			8	7	22.00	21.58	21.77	21.79
			15	0	22.00	21.55	21.71	21.78
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	24.00	23.33	23.42	23.60
			1	12	24.00	23.44	23.58	23.71
			1	24	24.00	23.34	23.50	23.49
			12	0	23.00	22.47	22.57	22.72
			12	6	23.00	22.49	22.67	22.74
			12	11	23.00	22.43	22.60	22.64
			25	0	23.00	22.45	22.59	22.71
		16QAM	1	0	23.50	22.52	22.66	22.84
			1	12	23.50	22.77	22.89	23.01
			1	24	23.50	22.55	22.77	22.66
			12	0	22.00	21.43	21.55	21.71
			12	6	22.00	21.49	21.66	21.76
			12	11	22.00	21.41	21.56	21.62
			25	0	22.00	21.44	21.62	21.72
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band	10MHz	QPSK	1	0	24.00	23.38	23.46	23.60
			1	24	24.00	23.60	23.71	23.80

5			1	49	24.00	23.48	23.56	23.52
			25	0	23.00	22.54	22.62	22.83
			25	12	23.00	22.52	22.71	22.81
			25	24	23.00	22.55	22.69	22.66
			50	0	23.00	22.52	22.66	22.79
		16QAM	1	0	23.50	22.66	22.66	22.87
			1	24	23.50	22.86	22.96	23.05
			1	49	23.50	22.69	22.84	22.71
			25	0	22.00	21.52	21.64	21.84
			25	12	22.00	21.55	21.70	21.81
			25	24	22.00	21.53	21.68	21.67
			50	0	22.00	21.53	21.66	21.78

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	23.50	23.22	23.09	23.19
			1	12	23.50	23.34	23.20	23.39
			1	24	23.50	23.22	23.11	23.24
			12	0	22.50	22.34	22.24	22.46
			12	6	22.50	22.38	22.30	22.47
			12	11	22.50	22.35	22.23	22.34
			25	0	22.50	22.35	22.24	22.41
		16QAM	1	0	23.00	22.47	22.33	22.42
			1	12	23.00	22.61	22.52	22.62
			1	24	23.00	22.41	22.30	22.43
			12	0	21.50	21.27	21.21	21.39
			12	6	21.50	21.31	21.26	21.40
			12	11	21.50	21.31	21.18	21.27
			25	0	21.50	21.32	21.22	21.38
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	23.50	23.24	23.10	23.14
			1	24	23.50	23.39	23.33	23.46
			1	49	23.50	23.27	23.16	23.27
			25	0	22.50	22.39	22.34	22.48
			25	12	22.50	22.48	22.35	22.45

				25	24	22.50	22.46	22.28	22.35
				50	0	22.50	22.45	22.32	22.42
				1	0	23.00	22.54	22.27	22.29
				1	24	23.00	22.67	22.55	22.60
				1	49	23.00	22.44	22.47	22.57
				25	0	21.50	21.35	21.30	21.41
				25	12	21.50	21.43	21.31	21.40
				25	24	21.50	21.43	21.27	21.30
				50	0	21.50	21.42	21.30	21.37
				RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
Band	Band Width	Modulation		RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK		1	0	23.50	23.14	22.93	22.87
				1	37	23.50	23.35	23.20	23.22
				1	74	23.50	23.08	23.03	23.14
				36	0	22.50	22.31	22.24	22.23
				36	18	22.50	22.42	22.29	22.32
				36	37	22.50	22.39	22.23	22.26
				75	0	22.50	22.35	22.23	22.22
		16QAM		1	0	22.50	22.42	22.18	22.06
				1	37	22.50	22.49	22.43	22.48
				1	74	22.50	22.33	22.30	22.42
				36	0	21.50	21.24	21.17	21.15
				36	18	21.50	21.34	21.21	21.25
				36	37	21.50	21.32	21.17	21.22
				75	0	21.50	21.30	21.18	21.18
Band	Band Width	Modulation		RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
				RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK		1	0	23.50	22.96	22.83	22.76
				1	49	23.50	23.40	23.31	23.22
				1	99	23.50	22.82	22.83	22.98
				50	0	22.50	22.31	22.29	22.15
				50	24	22.50	22.42	22.28	22.24
				50	49	22.50	22.35	22.18	22.07
				100	0	22.50	22.29	22.23	22.09
		16QAM		1	0	23.00	22.17	22.05	22.06
				1	49	23.00	22.53	22.47	22.36

			1	99	23.00	21.98	22.17	22.23
			50	0	21.50	21.26	21.26	21.11
			50	24	21.50	21.36	21.25	21.21
			50	49	21.50	21.28	21.14	21.03
			100	0	21.50	21.23	21.19	21.03

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.50	23.30	23.22	23.06
			1	2	23.50	23.43	23.29	23.10
			1	5	23.50	23.35	23.18	22.96
			3	0	23.50	23.42	23.31	23.15
			3	1	23.50	23.44	23.29	23.14
			3	2	23.50	23.43	23.27	23.06
			6	0	22.50	22.44	22.31	22.19
		16QAM	1	0	23.00	22.63	22.57	22.29
			1	2	23.00	22.74	22.70	22.39
			1	5	23.00	22.56	22.49	22.27
			3	0	22.50	22.42	22.37	22.18
			3	1	22.50	22.39	22.37	22.19
			3	2	22.50	22.41	22.25	22.01
			6	0	21.50	21.46	21.38	21.26
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.50	23.42	23.36	23.13
			1	7	23.50	23.44	23.29	23.17
			1	14	23.50	23.46	23.25	23.07
			8	0	23.00	22.47	22.36	22.23
			8	4	23.00	22.53	22.38	22.27
			8	7	23.00	22.47	22.33	22.22
			15	0	22.50	22.48	22.34	22.20
		16QAM	1	0	23.00	22.67	22.62	22.48
			1	7	23.00	22.72	22.64	22.45
			1	14	23.00	22.77	22.59	22.31
			8	0	22.00	21.54	21.45	21.30
			8	4	22.00	21.58	21.40	21.31

			8	7	22.00	21.56	21.39	21.30
			15	0	21.50	21.49	21.34	21.22
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.50	23.25	23.20	23.02
			1	12	23.50	23.37	23.21	23.02
			1	24	23.50	23.24	23.04	22.86
			12	0	22.50	22.40	22.20	22.17
			12	6	22.50	22.47	22.30	22.19
			12	11	22.50	22.38	22.18	22.11
			25	0	22.50	22.39	22.19	22.16
		16QAM	1	0	23.00	22.48	22.41	22.23
			1	12	23.00	22.73	22.52	22.38
			1	24	23.00	22.45	22.29	22.15
			12	0	21.50	21.39	21.22	21.14
			12	6	21.50	21.44	21.28	21.14
			12	11	21.50	21.36	21.17	21.07
			25	0	21.50	21.38	21.21	21.17
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.50	23.27	23.32	23.19
			1	24	23.50	23.46	23.34	23.26
			1	49	23.50	23.07	23.03	22.89
			25	0	22.50	22.46	22.25	22.25
			25	12	22.50	22.45	22.30	22.20
			25	24	22.50	22.43	22.15	22.08
			50	0	22.50	22.47	22.20	22.16
		16QAM	1	0	23.00	22.58	22.70	22.17
			1	24	23.00	22.65	22.65	22.39
			1	49	23.00	22.36	22.30	21.85
			25	0	21.50	21.46	21.26	21.11
			25	12	21.50	21.44	21.32	21.08
			25	24	21.50	21.45	21.16	20.91
			50	0	21.50	21.47	21.20	20.96

Band	Band	Modulation	RB	Tune-up	Channel/Frequency(MHz)
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	Width		Configuration		(dBm)			
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	23.00	22.75	22.77	22.79
			1	12	23.00	22.91	22.91	22.81
			1	24	23.00	22.77	22.69	22.65
			12	0	22.50	22.01	22.00	21.85
			12	6	22.50	21.97	21.99	21.96
			12	11	22.50	21.86	21.93	21.95
			25	0	22.00	21.93	21.98	21.89
		16QAM	1	0	22.50	22.10	22.18	22.11
			1	12	22.50	22.18	22.17	22.16
			1	24	22.50	22.17	21.97	21.85
			12	0	21.50	21.00	21.01	20.87
			12	6	21.50	20.97	21.00	20.95
			12	11	21.50	20.85	20.92	20.92
			25	0	21.00	20.93	21.00	20.91
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	23230/782	N/A
LTE Band 13	10MHz	QPSK	1	0	23.50	N/A	22.82	N/A
			1	24	23.50	N/A	23.08	N/A
			1	49	23.50	N/A	22.68	N/A
			25	0	22.50	N/A	22.21	N/A
			25	12	22.50	N/A	22.02	N/A
			25	24	22.50	N/A	22.09	N/A
			50	0	22.50	N/A	22.18	N/A
		16QAM	1	0	22.50	N/A	22.11	N/A
			1	24	22.50	N/A	22.29	N/A
			1	49	22.50	N/A	22.04	N/A
			25	0	21.50	N/A	21.21	N/A
			25	12	21.50	N/A	21.05	N/A
			25	24	21.50	N/A	21.10	N/A
			50	0	21.50	N/A	21.20	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5

LTE Band 17	5MHz	QPSK	1	0	23.00	22.70	22.64	22.50
			1	12	23.00	22.75	22.66	22.58
			1	24	23.00	22.57	22.50	22.33
			12	0	22.00	21.75	21.76	21.68
			12	6	22.00	21.83	21.75	21.67
			12	11	22.00	21.75	21.59	21.63
			25	0	22.00	21.74	21.68	21.65
		16QAM	1	0	22.50	22.07	22.00	21.79
			1	12	22.50	22.00	21.89	21.79
			1	24	22.50	21.88	21.71	21.56
			12	0	21.00	20.73	20.74	20.65
			12	6	21.00	20.83	20.70	20.60
			12	11	21.00	20.69	20.58	20.60
			25	0	21.00	20.75	20.68	20.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.00	22.76	22.73	22.74
			1	24	23.00	22.82	22.78	22.76
			1	49	23.00	22.49	22.44	22.39
			25	0	22.00	21.78	21.84	21.87
			25	12	22.00	21.80	21.77	21.72
			25	24	22.00	21.61	21.65	21.67
			50	0	22.00	21.71	21.73	21.80
		16QAM	1	0	22.50	22.09	22.09	21.99
			1	24	22.50	22.16	22.01	22.03
			1	49	22.50	21.70	21.75	21.59
			25	0	21.00	20.75	20.84	20.86
			25	12	21.00	20.78	20.78	20.74
			25	24	21.00	20.58	20.65	20.66
			50	0	21.00	20.70	20.73	20.82

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE Band 26a	1.4MHz	QPSK	1	0	23.50	22.99	22.97	22.86
			1	2	23.50	23.07	23.07	22.95
			1	5	23.50	22.97	22.93	22.87

				3	0	23.50	23.08	23.09	22.98		
				3	1	23.50	23.11	23.07	22.97		
				3	2	23.50	23.06	23.07	22.95		
				6	0	22.50	22.11	22.10	21.99		
			16QAM	1	0	22.50	22.31	22.23	22.04		
				1	2	22.50	22.40	22.26	22.14		
				1	5	22.50	22.25	22.06	22.13		
				3	0	22.50	22.07	22.02	21.95		
				3	1	22.50	22.01	22.04	21.94		
				3	2	22.50	22.02	22.00	21.96		
				6	0	21.50	21.20	21.20	21.12		
			Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
						RB Size	RB Offset		26705/818.5	26740/819	26775/822.5
LTE Band 26a	3MHz	QPSK	1	0	23.50	23.11	23.15	23.02			
			1	7	23.50	23.09	23.06	23.01			
			1	14	23.50	23.03	23.05	23.01			
			8	0	22.50	22.14	22.15	22.04			
			8	4	22.50	22.13	22.16	22.04			
			8	7	22.50	22.13	22.10	22.06			
			15	0	22.50	22.12	22.14	22.09			
		16QAM	1	0	22.50	22.42	22.40	22.16			
			1	7	22.50	22.32	22.30	22.21			
			1	14	22.50	22.19	22.18	22.30			
			8	0	21.50	21.24	21.24	21.12			
			8	4	21.50	21.22	21.24	21.15			
			8	7	21.50	21.22	21.17	21.10			
			15	0	21.50	21.14	21.17	21.10			
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)					
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5			
LTE Band 26a	5MHz	QPSK	1	0	23.50	22.94	22.98	22.91			
			1	12	23.50	22.99	23.03	22.95			
			1	24	23.50	22.81	22.84	22.83			
			12	0	22.50	22.00	22.05	21.97			
			12	6	22.50	22.08	22.08	22.04			
			12	11	22.50	21.98	21.99	21.97			
			25	0	22.50	22.02	22.07	21.98			

			1	0	22.50	22.24	22.15	22.08
			1	12	22.50	22.20	22.24	22.10
			1	24	22.50	22.03	22.11	22.00
		16QAM	12	0	21.50	21.02	21.04	21.01
			12	6	21.50	21.10	21.11	21.05
			12	11	21.50	21.01	21.04	20.99
			25	0	21.50	21.05	21.08	21.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	26740/819	N/A
LTE Band 26a	10MHz	QPSK	1	0	23.50	N/A	23.10	N/A
			1	24	23.50	N/A	23.15	N/A
			1	49	23.50	N/A	22.85	N/A
			25	0	22.50	N/A	22.16	N/A
			25	12	22.50	N/A	22.16	N/A
			25	24	22.50	N/A	22.10	N/A
			50	0	22.50	N/A	22.13	N/A
		16QAM	1	0	22.50	N/A	22.42	N/A
			1	24	22.50	N/A	22.38	N/A
			1	49	22.50	N/A	22.09	N/A
			25	0	21.50	N/A	21.19	N/A
			25	12	21.50	N/A	21.19	N/A
			25	24	21.50	N/A	21.09	N/A
			50	0	21.50	N/A	21.16	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	23.50	22.91	23.00	23.09
			1	2	23.50	23.01	23.12	23.16
			1	5	23.50	22.89	23.02	23.02
			3	0	23.50	22.99	23.06	23.18
			3	1	23.50	23.02	23.11	23.18
			3	2	23.50	23.00	23.12	23.14
			6	0	22.50	22.00	22.12	22.17
		16QAM	1	0	22.50	22.12	22.14	22.35
			1	2	22.50	22.27	22.31	22.40
			1	5	22.50	22.10	22.24	22.23

			3	0	22.50	21.92	22.10	22.12
			3	1	22.50	21.93	22.12	22.10
			3	2	22.50	21.93	22.09	22.09
			6	0	21.50	21.12	21.19	21.29
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26805/825.5	26915/836.5	27025/847.5
LTE Band 26b	3MHz	QPSK	1	0	23.50	23.02	23.10	23.32
			1	7	23.50	22.99	23.14	23.24
			1	14	23.50	22.96	23.14	23.16
			8	0	22.50	22.05	22.13	22.31
			8	4	22.50	22.06	22.21	22.31
			8	7	22.50	22.03	22.16	22.25
			15	0	22.50	22.05	22.17	22.31
		16QAM	1	0	23.00	22.18	22.36	22.60
			1	7	23.00	22.18	22.41	22.44
			1	14	23.00	22.23	22.35	22.37
			8	0	21.50	21.15	21.27	21.40
			8	4	21.50	21.18	21.33	21.42
			8	7	21.50	21.10	21.29	21.36
			15	0	21.50	21.08	21.23	21.32
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26815/826.5	26915/836.5	27015/846.5
LTE Band 26b	5MHz	QPSK	1	0	23.50	22.83	22.89	23.09
			1	12	23.50	22.93	23.06	23.18
			1	24	23.50	22.83	23.02	22.98
			12	0	22.50	21.96	22.06	22.25
			12	6	22.50	21.98	22.16	22.28
			12	11	22.50	21.92	22.08	22.17
			25	0	22.50	21.91	22.10	22.23
		16QAM	1	0	22.50	22.06	22.13	22.41
			1	12	22.50	22.19	22.25	22.43
			1	24	22.50	22.15	22.23	22.20
			12	0	21.50	20.98	21.05	21.28
			12	6	21.50	21.02	21.16	21.32
			12	11	21.50	20.93	21.10	21.18
			25	0	21.50	20.97	21.14	21.25

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
LTE Band 26b	10MHz	QPSK	1	0	23.50	22.91	22.91	23.11
			1	24	23.50	23.08	23.15	23.30
			1	49	23.50	22.95	23.08	23.05
			25	0	22.50	22.04	22.12	22.39
			25	12	22.50	22.01	22.18	22.30
			25	24	22.50	22.01	22.18	22.20
			50	0	22.50	22.01	22.14	22.31
		16QAM	1	0	23.00	22.23	22.23	22.39
			1	24	23.00	22.32	22.38	22.52
			1	49	23.00	22.26	22.23	22.18
			25	0	21.50	21.08	21.16	21.45
			25	12	21.50	21.09	21.23	21.36
			25	24	21.50	21.04	21.20	21.25
			50	0	21.50	21.06	21.20	21.35
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	QPSK	1	0	23.50	22.74	22.75	22.89
			1	37	23.50	22.95	23.06	23.18
			1	74	23.50	22.90	22.97	22.89
			36	0	22.50	21.92	21.99	22.11
			36	18	22.50	22.01	22.12	22.25
			36	37	22.50	22.02	22.10	22.09
			75	0	22.50	21.96	22.03	22.10
		16QAM	1	0	22.50	21.98	22.00	22.04
			1	37	22.50	22.29	22.36	22.37
			1	74	22.50	22.17	22.25	22.11
			36	0	21.50	20.95	21.00	21.11
			36	18	21.50	21.04	21.14	21.25
			36	37	21.50	20.97	21.09	21.09
			75	0	21.50	21.01	21.08	21.14

Band	Band Width	Modulation	RB Configuration	Tune-up (dBm)	Channel/Frequency(MHz)
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			RB Size	RB Offset		40065/2537.5	40640/2595	41215/2652.5
LTE Band 41	5MHz	QPSK	1	0	23.50	23.36	23.03	23.19
			1	12	23.50	23.44	23.25	23.23
			1	24	23.50	23.32	23.20	23.07
			12	0	23.50	23.39	22.15	22.26
			12	6	23.50	23.43	22.24	22.27
			12	11	23.50	23.35	22.21	22.14
			25	0	23.50	23.27	22.16	22.20
		16QAM	1	0	23.50	22.90	22.23	22.36
			1	12	23.50	23.04	22.48	22.45
			1	24	23.50	22.94	22.40	22.27
			12	0	23.00	22.90	21.16	21.25
			12	6	23.00	22.95	21.23	21.27
			12	11	23.00	22.90	21.23	21.15
			25	0	23.00	22.89	21.21	21.26
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40090/2540	40640/2595	41190/2650
LTE Band 41	10MHz	QPSK	1	0	23.50	22.95	23.00	23.28
			1	24	23.50	22.92	23.36	23.39
			1	49	23.50	22.81	23.26	23.11
			25	0	23.50	23.06	22.22	22.41
			25	12	23.50	23.03	22.28	22.36
			25	24	23.50	22.96	22.29	22.23
			50	0	23.50	23.09	22.24	22.32
		16QAM	1	0	23.00	22.72	22.22	22.49
			1	24	23.00	22.76	22.63	22.61
			1	49	23.00	22.69	22.47	22.33
			25	0	23.00	22.75	21.24	21.44
			25	12	23.00	22.74	21.27	21.38
			25	24	23.00	22.70	21.31	21.25
			50	0	23.00	22.77	21.26	21.35
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40115/2542.5	40640/2595	41165/2647.5
LTE Band	15MHz	QPSK	1	0	23.50	22.85	22.74	23.15
			1	37	23.50	22.72	23.20	23.24

41			1	74	23.50	22.58	23.06	22.92
			36	0	23.50	23.12	22.05	22.31
			36	18	23.50	23.01	22.17	22.26
			36	37	23.50	22.00	22.18	22.09
			75	0	22.50	22.11	22.08	22.21
		16QAM	1	0	23.00	22.63	21.98	22.34
			1	37	23.00	22.59	22.43	22.43
			1	74	23.00	22.48	22.27	22.12
			36	0	23.00	22.76	21.99	21.24
			36	18	23.00	22.67	21.11	21.21
			36	37	23.00	21.94	21.14	21.14
			75	0	21.50	21.09	21.07	21.19
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40140/2545	40640/2595	41140/2645
LTE Band 41	20MHz	QPSK	1	0	23.50	22.82	22.61	23.04
			1	49	23.50	22.64	23.26	23.33
			1	99	23.50	22.33	22.90	22.72
			50	0	23.00	22.26	22.04	22.33
			50	24	23.00	22.11	22.15	22.27
			50	49	23.00	22.83	22.09	22.05
			100	0	22.50	21.24	22.10	22.20
		16QAM	1	0	23.00	22.67	21.85	22.21
			1	49	23.00	22.57	22.47	22.52
			1	99	23.00	22.55	22.13	21.96
			50	0	22.00	21.21	21.06	21.34
			50	24	22.00	21.08	21.17	21.29
			50	49	22.00	21.85	21.12	21.05
			100	0	21.50	20.17	21.09	21.20

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	25.00	24.70	24.35	24.15
			1	2	25.00	24.84	24.46	24.22
			1	5	25.00	24.73	24.35	23.94
			3	0	25.00	24.83	24.44	23.80
			3	1	25.00	24.85	24.48	23.82

			3	2	25.00	24.83	24.46	23.81
			6	0	24.00	23.87	23.52	22.83
		16QAM	1	0	24.50	23.93	23.52	22.90
			1	2	24.50	24.07	23.66	23.07
			1	5	24.50	23.94	23.44	22.82
			3	0	24.00	23.72	23.32	22.71
			3	1	24.00	23.70	23.42	22.75
			3	2	24.00	23.78	23.35	22.74
			6	0	23.00	22.92	22.54	21.86
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	3MHz	QPSK	1	0	24.50	24.31	24.02	23.80
			1	7	24.50	24.31	24.02	23.83
			1	14	24.50	24.32	24.00	23.82
			8	0	23.50	23.40	23.04	22.85
			8	4	23.50	23.43	23.09	22.88
			8	7	23.50	23.38	23.05	22.87
			15	0	23.50	23.46	23.08	22.92
		16QAM	1	0	24.00	23.54	23.15	22.94
			1	7	24.00	23.55	23.22	22.99
			1	14	24.00	23.52	23.17	23.05
			8	0	23.00	22.43	22.08	21.91
			8	4	23.00	22.50	22.12	21.91
			8	7	23.00	22.43	22.07	21.88
			15	0	22.50	22.43	22.04	21.87
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	24.50	24.14	23.81	23.60
			1	12	24.50	24.23	23.95	23.76
			1	24	24.50	24.15	23.80	23.63
			12	0	23.50	23.31	22.97	22.80
			12	6	23.50	23.37	23.02	22.84
			12	11	23.50	23.32	22.97	22.75
			25	0	23.50	23.31	22.99	22.80
		16QAM	1	0	24.00	23.31	22.94	22.80
			1	12	24.00	23.54	23.07	22.91

			1	24	24.00	23.33	22.99	22.80
			12	0	22.50	22.28	21.91	21.74
			12	6	22.50	22.34	21.99	21.80
			12	11	22.50	22.32	21.93	21.73
			25	0	22.50	22.31	21.96	21.77
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	24.50	24.17	23.89	23.70
			1	24	24.50	24.40	24.06	23.86
			1	49	24.50	24.15	23.86	23.71
			25	0	23.50	23.38	23.07	22.88
			25	12	23.50	23.37	23.09	22.88
			25	24	23.50	23.38	23.03	22.78
			50	0	23.50	23.43	23.05	22.86
		16QAM	1	0	24.00	23.40	23.13	22.89
			1	24	24.00	23.61	23.27	23.08
			1	49	24.00	23.42	22.95	22.94
			25	0	22.50	22.36	22.03	21.85
			25	12	22.50	22.39	22.04	21.85
			25	24	22.50	22.36	21.97	21.76
			50	0	22.50	22.38	22.00	21.83
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	24.50	24.08	23.77	23.51
			1	37	24.50	24.22	23.93	23.61
			1	74	24.50	23.97	23.70	23.46
			36	0	23.50	23.30	22.99	22.72
			36	18	23.50	23.33	23.00	22.73
			36	37	23.50	23.24	22.92	22.62
			75	0	23.50	23.26	22.92	22.64
		16QAM	1	0	24.00	23.24	23.01	22.82
			1	37	24.00	23.50	23.07	22.80
			1	74	24.00	23.18	22.91	22.56
			36	0	22.50	22.26	21.94	21.67
			36	18	22.50	22.31	21.93	21.68
			36	37	22.50	22.19	21.86	21.56

			75	0	22.50	22.26	21.91	21.61
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	24.50	23.95	23.67	23.37
			1	49	24.50	24.23	24.02	23.71
			1	99	24.50	23.78	23.50	23.35
			50	0	23.50	23.23	22.97	22.74
			50	24	23.50	23.32	23.03	22.73
			50	49	23.50	23.17	22.90	22.55
			100	0	23.50	23.20	22.91	22.61
		16QAM	1	0	24.00	23.20	22.93	22.63
			1	49	24.00	23.54	23.14	22.98
			1	99	24.00	23.12	22.67	22.46
			50	0	22.50	22.20	21.95	21.72
			50	24	22.50	22.28	21.97	21.68
			50	49	22.50	22.18	21.88	21.53
			100	0	22.50	22.20	21.86	21.60

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	15.50	15.20
	6	2437	15.00	14.53
	11	2462	14.00	13.10
802.11g	1	2412	14.00	13.85
	6	2437	14.00	13.38
	11	2462	14.00	13.06
802.11n HT20	1	2412	12.50	12.01
	6	2437	12.50	11.65
	11	2462	12.50	11.16
802.11n HT40	3	2422	12.50	12.02
	6	2437	12.50	11.80
	9	2452	12.50	11.49

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	11.00	10.36
	40	5200	11.00	10.54
	48	5240	11.00	10.90
802.11n HT20	36	5180	11.00	10.37
	40	5200	11.00	10.30
	48	5240	11.00	10.79
802.11n HT40	38	5190	11.00	10.47
	46	5230	11.00	10.70
802.11ac VHT20	36	5180	11.00	10.26
	40	5200	11.00	10.31
	48	5240	11.00	10.71
802.11ac VHT40	38	5190	11.00	10.46
	46	5230	11.00	10.66
802.11ac VHT80	42	5210	11.00	10.60

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
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802.11a	149	5745	10.50	9.72
	157	5785	10.50	9.92
	165	5825	10.50	10.24
802.11n HT20	149	5745	10.50	9.67
	157	5785	10.50	9.95
	165	5825	10.50	10.16
802.11n HT40	151	5755	10.50	9.89
	159	5795	10.50	10.20
802.11ac VHT20	149	5745	10.50	9.55
	157	5785	10.50	9.88
	165	5825	10.50	10.13
802.11ac VHT40	151	5755	10.50	9.97
	159	5795	10.50	10.19
802.11ac VHT80	155	5775	10.00	9.99

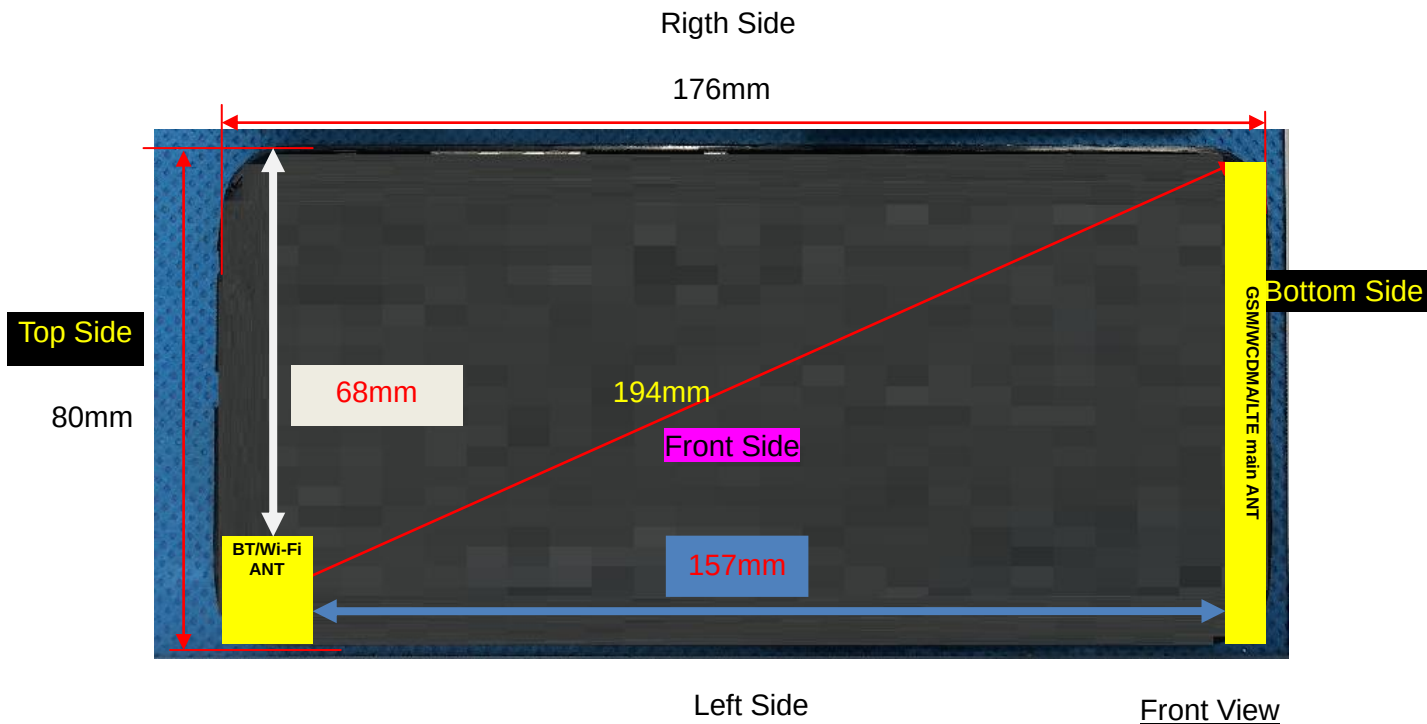
NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	5.00	4.90	4.50	4.64
	39CH	5.00	4.28	4.35	4.37
	78CH	4.00	3.11	2.90	2.79

BLE	Channel	Tune-up (dBm)	Output Power (dBm)
			1M
	0CH	2.00	1.26
	19CH	1.00	0.91
	39CH	0.00	-0.22

NOTE: Power measurement results of Bluetooth.

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main ANT	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm
WLAN & Bluetooth	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	>25mm
Positions for SAR tests						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main ANT	Yes	Yes	Yes	Yes	NO	Yes
WLAN & Bluetooth	Yes	Yes	Yes	NO	Yes	NO

9. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
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Bluetooth	5.00	3.16	5	2.480	1	3	Yes
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NOTE: Standalone SAR test exclusion for Bluetooth.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f_{\text{(GHz)}}}/x] \text{ W/kg}$$
 for test separation distances $\leq 50\text{mm}$, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is $< 5 \text{ mm}$, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	5.00	3.16	5	2.48	7.5	0.132
Bluetooth	Body	5.00	3.16	10	2.48	7.5	0.066
Bluetooth	Hotspot	5.00	3.16	10	2.48	7.5	0.066

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement Result

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	189/836.4	GPRS(GMSK 2TS)	0.149	0.113	4.04	31.60	32.00	0.163	2024/1/10	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.083	0.060	1.76	31.60	32.00	0.091	2024/1/10	
Right Cheek	189/836.4	GPRS(GMSK 2TS)	0.131	0.094	-1.18	31.60	32.00	0.144	2024/1/10	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.063	0.048	-1.26	31.60	32.00	0.069	2024/1/10	

NOTE: Head SAR test results of GSM850.

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Body-Worn with 10mm	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)		
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 2TS)	0.150	0.108	-2.71	31.60	32.00	0.164	2024/1/10	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.202	0.149	-0.30	31.60	32.00	0.221	2024/1/10	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 2TS)	0.150	0.108	-2.71	31.60	32.00	0.164	2024/1/10	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.202	0.149	-0.30	31.60	32.00	0.221	2024/1/10	2#
Left Side	189/836.4	GPRS(GMSK 2TS)	0.068	0.051	-2.36	31.60	32.00	0.075	2024/1/10	
Right Side	189/836.4	GPRS(GMSK 2TS)	0.066	0.049	2.88	31.60	32.00	0.072	2024/1/10	
Bottom Side	189/836.4	GPRS(GMSK 2TS)	0.115	0.084	0.50	31.60	32.00	0.126	2024/1/10	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.082	0.054	4.45	25.99	26.50	0.092	2024/1/11	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.042	0.028	0.54	25.99	26.50	0.047	2024/1/11	
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.072	0.046	-2.21	25.99	26.50	0.081	2024/1/11	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.036	0.023	-3.19	25.99	26.50	0.040	2024/1/11	

NOTE: Head SAR test results of GSM1900

Test Position of	Test channel	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR	Date	Plot
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Body-Worn with 10mm	/Freq.		1g	10g	(±5%)	(dBm)	(dBm)	1g (W/Kg)		
Front Side	661/1880	GPRS(GMSK 4TS)	0.138	0.077	2.75	25.99	26.50	0.155	2024/1/11	
Back Side	661/1880	GPRS(GMSK 4TS)	0.195	0.113	-4.70	25.99	26.50	0.219	2024/1/11	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 4TS)	0.138	0.077	2.75	25.99	26.50	0.155	2024/1/11	
Back Side	661/1880	GPRS(GMSK 4TS)	0.195	0.113	-4.70	25.99	26.50	0.219	2024/1/11	4#
Left Side	661/1880	GPRS(GMSK 4TS)	0.072	0.041	0.15	25.99	26.50	0.081	2024/1/11	
Right Side	661/1880	GPRS(GMSK 4TS)	0.069	0.038	1.15	25.99	26.50	0.078	2024/1/11	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.110	0.062	-3.22	25.99	26.50	0.124	2024/1/11	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.110	0.069	0.93	24.15	24.50	0.119	2024/1/11	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.057	0.035	-1.25	24.15	24.50	0.062	2024/1/11	
Right Cheek	9400/1880	RMC12.2K	0.100	0.060	1.69	24.15	24.50	0.108	2024/1/11	
Right Tilt 15	9400/1880	RMC12.2K	0.050	0.030	0.76	24.15	24.50	0.054	2024/1/11	

Degree

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.174	0.096	1.74	24.15	24.50	0.189	2024/1/11	
Back Side	9400/1880	RMC12.2K	0.243	0.137	1.47	24.15	24.50	0.263	2024/1/11	6#

NOTE: Body-Worn SAR test results of WCDMA Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.174	0.096	1.74	24.15	24.50	0.189	2024/1/11	
Back Side	9400/1880	RMC12.2K	0.243	0.137	1.47	24.15	24.50	0.263	2024/1/11	6#
Left Side	9400/1880	RMC12.2K	0.081	0.043	-0.82	24.15	24.50	0.088	2024/1/11	
Right Side	9400/1880	RMC12.2K	0.075	0.042	-3.35	24.15	24.50	0.081	2024/1/11	
Bottom Side	9400/1880	RMC12.2K	0.140	0.077	2.26	24.15	24.50	0.152	2024/1/11	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1413/1732.6	RMC12.2K	0.073	0.048	1.36	24.11	24.50	0.080	2024/1/08	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.037	0.024	0.00	24.11	24.50	0.040	2024/1/08	
Right	1413/1732.6	RMC12.2K	0.064	0.041	-2.85	24.11	24.50	0.070	2024/1/08	

Cheek										
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.034	0.022	-3.38	24.11	24.50	0.037	2024/1/08	

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.210	0.122	3.75	24.11	24.50	0.230	2024/1/08	
Back Side	1413/1732.6	RMC12.2K	0.317	0.184	2.33	24.11	24.50	0.347	2024/1/08	8#

NOTE: Body-Worn SAR test results of WCDMA Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.210	0.122	3.75	24.11	24.50	0.230	2024/1/08	
Back Side	1413/1732.6	RMC12.2K	0.317	0.184	2.33	24.11	24.50	0.347	2024/1/08	8#
Left Side	1413/1732.6	RMC12.2K	0.105	0.063	3.97	24.11	24.50	0.115	2024/1/08	
Right Side	1413/1732.6	RMC12.2K	0.102	0.059	-2.01	24.11	24.50	0.112	2024/1/08	
Bottom Side	1413/1732.6	RMC12.2K	0.160	0.089	-3.09	24.11	24.50	0.175	2024/1/08	

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	4182/836.4	RMC12.2K	0.057	0.046	0.23	23.16	23.50	0.062	2024/1/10	9#
Left Tilt 15	4182/836.4	RMC12.2K	0.030	0.023	1.25	23.16	23.50	0.032	2024/1/10	

NOTE: Head SAR test results of WCDMA Band 5

NOTE: Body-Worn SAR test results of WCDMA Band 5

NOTE: Hotspot SAR test results of WCDMA Band 5

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										

NOTE: Head SAR test results of LTE Band 2

NOTE: Body-Worn SAR test results of LTE Band 2

Test Position of Hotspot with	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

10mm										
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.162	0.088	1.23	23.79	24.00	0.170	2024/1/11	
Back Side	18900/1880	20M QPSK(1,49)	0.257	0.145	0.16	23.79	24.00	0.270	2024/1/11	18#
Left Side	18900/1880	20M QPSK(1,49)	0.090	0.051	0.53	23.79	24.00	0.094	2024/1/11	
Right Side	18900/1880	20M QPSK(1,49)	0.078	0.042	3.28	23.79	24.00	0.082	2024/1/11	
Bottom Side	18900/1880	20M QPSK(1,49)	0.145	0.081	3.89	23.79	24.00	0.152	2024/1/11	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.086	0.050	3.77	22.80	23.00	0.090	2024/1/11	
Back Side	18900/1880	20M QPSK(50,24)	0.154	0.074	-4.57	22.80	23.00	0.161	2024/1/11	
Left Side	18900/1880	20M QPSK(50,24)	0.054	0.030	-4.91	22.80	23.00	0.057	2024/1/11	
Right Side	18900/1880	20M QPSK(50,24)	0.046	0.024	-0.08	22.80	23.00	0.048	2024/1/11	
Bottom Side	18900/1880	20M QPSK(50,24)	0.077	0.043	2.28	22.80	23.00	0.081	2024/1/11	

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.072	0.046	4.78	24.25	24.50	0.076	2024/1/08	19#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.039	0.024	-1.73	24.25	24.50	0.041	2024/1/08	
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.065	0.040	-0.49	24.25	24.50	0.069	2024/1/08	

Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.029	0.018	0.11	24.25	24.50	0.031	2024/1/08	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,24)	0.040	0.026	2.08	23.27	23.50	0.042	2024/1/08	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.021	0.014	4.51	23.27	23.50	0.022	2024/1/08	
Right Cheek	20175/1732.5	20M QPSK(50,24)	0.036	0.023	-2.09	23.27	23.50	0.038	2024/1/08	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.015	0.009	2.37	23.27	23.50	0.016	2024/1/08	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.246	0.133	0.58	24.25	24.50	0.261	2024/1/08	
Back Side	20175/1732.5	20M QPSK(1,49)	0.389	0.222	-0.28	24.25	24.50	0.412	2024/1/08	20#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.140	0.071	0.34	23.27	23.50	0.148	2024/1/08	
Back Side	20175/1732.5	20M QPSK(50,24)	0.231	0.130	1.35	23.27	23.50	0.244	2024/1/08	

NOTE: Body-Worn SAR test results of LTE Band 4

[illegible]

1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.246	0.133	0.58	24.25	24.50	0.261	2024/1/08	
Back Side	20175/1732.5	20M QPSK(1,49)	0.389	0.222	-0.28	24.25	24.50	0.412	2024/1/08	20#
Left Side	20175/1732.5	20M QPSK(1,49)	0.123	0.067	3.79	24.25	24.50	0.130	2024/1/08	
Right Side	20175/1732.5	20M QPSK(1,49)	0.120	0.066	3.71	24.25	24.50	0.127	2024/1/08	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.215	0.117	2.57	24.25	24.50	0.228	2024/1/08	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.140	0.071	0.34	23.27	23.50	0.148	2024/1/08	
Back Side	20175/1732.5	20M QPSK(50,24)	0.231	0.130	1.35	23.27	23.50	0.244	2024/1/08	
Left Side	20175/1732.5	20M QPSK(50,24)	0.069	0.040	-2.86	23.27	23.50	0.073	2024/1/08	
Right Side	20175/1732.5	20M QPSK(50,24)	0.067	0.038	1.05	23.27	23.50	0.071	2024/1/08	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.117	0.061	-1.30	23.27	23.50	0.123	2024/1/08	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.073	0.022	-1.32	23.71	24.00	0.078	2024/1/10	21#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.038	0.011	0.89	23.71	24.00	0.041	2024/1/10	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.069	0.021	-3.93	23.71	24.00	0.074	2024/1/10	
Right	20525/836.5	10M QPSK(1,24)	0.036	0.009	3.17	23.71	24.00	0.038	2024/1/10	

Tilt 15 Degree										
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,0)	0.039	0.012	1.78	22.62	23.00	0.043	2024/1/10	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.020	0.006	4.32	22.62	23.00	0.022	2024/1/10	
Right Cheek	20525/836.5	10M QPSK(25,0)	0.037	0.010	-2.02	22.62	23.00	0.040	2024/1/10	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.020	0.005	-1.14	22.62	23.00	0.022	2024/1/10	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.078	0.057	-0.71	23.71	24.00	0.083	2024/1/10	
Back Side	20525/836.5	10M QPSK(1,24)	0.104	0.079	-0.44	23.71	24.00	0.111	2024/1/10	22#
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.042	0.029	0.37	22.62	23.00	0.046	2024/1/10	
Back Side	20525/836.5	10M QPSK(25,0)	0.056	0.044	-0.75	22.62	23.00	0.061	2024/1/10	

NOTE: Body-Worn SAR test results of LTE Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.078	0.057	-0.71	23.71	24.00	0.083	2024/1/10	
Back Side	20525/836.5	10M QPSK(1,24)	0.104	0.079	-0.44	23.71	24.00	0.111	2024/1/10	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.038	0.030	-3.03	23.71	24.00	0.041	2024/1/10	
Right Side	20525/836.5	10M QPSK(1,24)	0.036	0.027	1.01	23.71	24.00	0.038	2024/1/10	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.060	0.044	-0.45	23.71	24.00	0.064	2024/1/10	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.042	0.029	0.37	22.62	23.00	0.046	2024/1/10	
Back Side	20525/836.5	10M QPSK(25,0)	0.056	0.044	-0.75	22.62	23.00	0.061	2024/1/10	
Left Side	20525/836.5	10M QPSK(25,0)	0.022	0.018	-2.51	22.62	23.00	0.024	2024/1/10	
Right Side	20525/836.5	10M QPSK(25,0)	0.021	0.016	2.20	22.62	23.00	0.023	2024/1/10	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.035	0.024	4.12	22.62	23.00	0.038	2024/1/10	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,49)	0.145	0.075	-0.78	23.31	23.50	0.151	2024/1/18	23#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.083	0.041	-2.31	23.31	23.50	0.087	2024/1/18	
Right Cheek	21100/2535	20M QPSK(1,49)	0.129	0.067	-0.96	23.31	23.50	0.135	2024/1/18	
Right	21100/2535	20M QPSK(1,49)	0.062	0.030	-2.57	23.31	23.50	0.065	2024/1/18	

Tilt 15 Degree										
50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.077	0.040	2.37	22.28	22.50	0.081	2024/1/18	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.049	0.024	3.80	22.28	22.50	0.052	2024/1/18	
Right Cheek	21100/2535	20M QPSK(50,24)	0.072	0.039	3.97	22.28	22.50	0.076	2024/1/18	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.032	0.016	0.97	22.28	22.50	0.034	2024/1/18	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.164	0.093	-1.04	23.31	23.50	0.171	2024/1/18	
Back Side	21100/2535	20M QPSK(1,49)	0.227	0.124	-0.79	23.31	23.50	0.237	2024/1/18	24#
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.091	0.049	2.56	22.28	22.50	0.096	2024/1/18	
Back Side	21100/2535	20M QPSK(50,24)	0.130	0.073	3.06	22.28	22.50	0.137	2024/1/18	

NOTE: Body-Worn SAR test results of LTE Band 7

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.164	0.093	-1.04	23.31	23.50	0.171	2024/1/18	
Back Side	21100/2535	20M QPSK(1,49)	0.227	0.124	-0.79	23.31	23.50	0.237	2024/1/18	24#
Left Side	21100/2535	20M QPSK(1,49)	0.078	0.042	-0.96	23.31	23.50	0.081	2024/1/18	

Right Side	21100/2535	20M QPSK(1,49)	0.075	0.041	2.13	23.31	23.50	0.078	2024/1/18	
Bottom Side	21100/2535	20M QPSK(1,49)	0.125	0.065	-3.41	23.31	23.50	0.131	2024/1/18	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.091	0.049	2.56	22.28	22.50	0.096	2024/1/18	
Back Side	21100/2535	20M QPSK(50,24)	0.130	0.073	3.06	22.28	22.50	0.137	2024/1/18	
Left Side	21100/2535	20M QPSK(50,24)	0.045	0.026	-2.34	22.28	22.50	0.047	2024/1/18	
Right Side	21100/2535	20M QPSK(50,24)	0.042	0.024	-4.64	22.28	22.50	0.044	2024/1/18	
Bottom Side	21100/2535	20M QPSK(50,24)	0.067	0.036	2.07	22.28	22.50	0.070	2024/1/18	

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,24)	0.048	0.038	-1.15	23.34	23.50	0.050	2024/1/19	25#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.027	0.021	-1.06	23.34	23.50	0.028	2024/1/19	
Right Cheek	23095/707.5	10M QPSK(1,24)	0.044	0.034	3.41	23.34	23.50	0.046	2024/1/19	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.021	0.016	-2.54	23.34	23.50	0.022	2024/1/19	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,0)	0.025	0.022	-1.33	22.25	22.50	0.026	2024/1/19	
Left Tilt 15	23095/707.5	10M QPSK(25,0)	0.016	0.012	3.81	22.25	22.50	0.017	2024/1/19	

Degree										
Right Cheek	23095/707.5	10M QPSK(25,0)	0.021	0.017	-0.88	22.25	22.50	0.022	2024/1/19	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.012	0.008	-0.37	22.25	22.50	0.013	2024/1/19	

NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.150	0.114	-1.52	23.34	23.50	0.156	2024/1/19	
Back Side	23095/707.5	10M QPSK(1,24)	0.239	0.191	0.00	23.34	23.50	0.248	2024/1/19	26#
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.079	0.058	4.00	22.25	22.50	0.084	2024/1/19	
Back Side	23095/707.5	10M QPSK(25,0)	0.134	0.096	-2.02	22.25	22.50	0.142	2024/1/19	

NOTE: Body-Worn SAR test results of LTE Band 12

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.150	0.114	-1.52	23.34	23.50	0.156	2024/1/19	
Back Side	23095/707.5	10M QPSK(1,24)	0.239	0.191	0.00	23.34	23.50	0.248	2024/1/19	26#
Left Side	23095/707.5	10M QPSK(1,24)	0.089	0.071	-2.40	23.34	23.50	0.092	2024/1/19	
Right Side	23095/707.5	10M QPSK(1,24)	0.084	0.066	1.15	23.34	23.50	0.087	2024/1/19	
Bottom Side	23095/707.5	10M QPSK(1,24)	0.135	0.106	-1.57	23.34	23.50	0.140	2024/1/19	
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.079	0.058	4.00	22.25	22.50	0.084	2024/1/19	

Back Side	23095/707.5	10M QPSK(25,0)	0.134	0.096	-2.02	22.25	22.50	0.142	2024/1/19	
Left Side	23095/707.5	10M QPSK(25,0)	0.046	0.040	0.68	22.25	22.50	0.049	2024/1/19	
Right Side	23095/707.5	10M QPSK(25,0)	0.045	0.038	-1.89	22.25	22.50	0.048	2024/1/19	
Bottom Side	23095/707.5	10M QPSK(25,0)	0.074	0.054	-1.24	22.25	22.50	0.078	2024/1/19	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 13

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23230/782	10M QPSK(1,24)	0.034	0.028	2.99	23.08	23.50	0.037	2024/1/19	27#
Left Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.019	0.017	-3.19	23.08	23.50	0.021	2024/1/19	
Right Cheek	23230/782	10M QPSK(1,24)	0.032	0.026	2.75	23.08	23.50	0.035	2024/1/19	
Right Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.017	0.015	-0.38	23.08	23.50	0.019	2024/1/19	
50%RB										
Left Cheek	23230/782	10M QPSK(25,0)	0.018	0.016	-1.08	22.21	22.50	0.019	2024/1/19	
Left Tilt 15 Degree	23230/782	10M QPSK(25,0)	0.011	0.010	-4.54	22.21	22.50	0.012	2024/1/19	
Right Cheek	23230/782	10M QPSK(25,0)	0.015	0.012	-1.77	22.21	22.50	0.016	2024/1/19	
Right Tilt 15 Degree	23230/782	10M QPSK(25,0)	0.009	0.008	2.17	22.21	22.50	0.010	2024/1/19	

NOTE: Head SAR test results of LTE Band 13

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,24)	0.066	0.050	-3.96	23.08	23.50	0.073	2024/1/19	
Back Side	23230/782	10M QPSK(1,24)	0.096	0.075	0.85	23.08	23.50	0.106	2024/1/19	28#
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.037	0.027	-4.64	22.21	22.50	0.040	2024/1/19	
Back Side	23230/782	10M QPSK(25,0)	0.050	0.040	1.69	22.21	22.50	0.053	2024/1/19	

NOTE: Body-Worn SAR test results of LTE Band 13

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,24)	0.066	0.050	-3.96	23.08	23.50	0.073	2024/1/19	
Back Side	23230/782	10M QPSK(1,24)	0.096	0.075	0.85	23.08	23.50	0.106	2024/1/19	28#
Left Side	23230/782	10M QPSK(1,24)	0.042	0.032	3.45	23.08	23.50	0.046	2024/1/19	
Right Side	23230/782	10M QPSK(1,24)	0.039	0.030	1.49	23.08	23.50	0.043	2024/1/19	
Bottom Side	23230/782	10M QPSK(1,24)	0.055	0.042	-3.53	23.08	23.50	0.061	2024/1/19	
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.037	0.027	-4.64	22.21	22.50	0.040	2024/1/19	
Back Side	23230/782	10M QPSK(25,0)	0.050	0.040	1.69	22.21	22.50	0.053	2024/1/19	
Left Side	23230/782	10M QPSK(25,0)	0.025	0.020	-4.99	22.21	22.50	0.027	2024/1/19	
Right Side	23230/782	10M QPSK(25,0)	0.023	0.017	3.23	22.21	22.50	0.025	2024/1/19	
Bottom Side	23230/782	10M QPSK(25,0)	0.028	0.024	3.97	22.21	22.50	0.030	2024/1/19	

NOTE: Hotspot SAR test results of LTE Band 13

10.1.12. SAR measurement Result of LTE Band 17

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23790/710	10M QPSK(1,24)	0.033	0.027	-0.22	22.78	23.00	0.035	2024/1/19	29#
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.017	0.015	3.71	22.78	23.00	0.018	2024/1/19	
Right Cheek	23790/710	10M QPSK(1,24)	0.028	0.022	3.02	22.78	23.00	0.029	2024/1/19	
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.014	0.012	-2.97	22.78	23.00	0.015	2024/1/19	
50%RB										
Left Cheek	23790/710	10M QPSK(25,0)	0.017	0.015	2.11	21.84	22.00	0.018	2024/1/19	
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.010	0.009	0.78	21.84	22.00	0.010	2024/1/19	
Right Cheek	23790/710	10M QPSK(25,0)	0.016	0.012	-2.27	21.84	22.00	0.017	2024/1/19	
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.008	0.007	1.64	21.84	22.00	0.008	2024/1/19	

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.126	0.099	-0.19	22.78	23.00	0.133	2024/1/19	
Back Side	23790/710	10M QPSK(1,24)	0.181	0.145	-0.23	22.78	23.00	0.190	2024/1/19	30#

50%RB

Front Side	23790/710	10M QPSK(25,0)	0.069	0.059	2.71	21.84	22.00	0.072	2024/1/19	
Back Side	23790/710	10M QPSK(25,0)	0.104	0.075	-3.99	21.84	22.00	0.108	2024/1/19	

NOTE: Body-Worn SAR test results of LTE Band 17

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.126	0.099	-0.19	22.78	23.00	0.133	2024/1/19	
Back Side	23790/710	10M QPSK(1,24)	0.181	0.145	-0.23	22.78	23.00	0.190	2024/1/19	30#
Left Side	23790/710	10M QPSK(1,24)	0.066	0.052	3.50	22.78	23.00	0.069	2024/1/19	
Right Side	23790/710	10M QPSK(1,24)	0.060	0.046	1.00	22.78	23.00	0.063	2024/1/19	
Bottom Side	23790/710	10M QPSK(1,24)	0.115	0.088	-3.21	22.78	23.00	0.121	2024/1/19	
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.069	0.059	2.71	21.84	22.00	0.072	2024/1/19	
Back Side	23790/710	10M QPSK(25,0)	0.104	0.075	-3.99	21.84	22.00	0.108	2024/1/19	
Left Side	23790/710	10M QPSK(25,0)	0.038	0.031	3.92	21.84	22.00	0.039	2024/1/19	
Right Side	23790/710	10M QPSK(25,0)	0.032	0.023	2.63	21.84	22.00	0.033	2024/1/19	
Bottom Side	23790/710	10M QPSK(25,0)	0.064	0.048	-4.00	21.84	22.00	0.066	2024/1/19	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.13. SAR measurement Result of LTE Band 26A

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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of Head			1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
1RB										
Left Cheek	26740/819	10M QPSK(1,24)	0.067	0.052	-1.86	23.15	23.50	0.073	2024/1/10	33#
Left Tilt 15 Degree	26740/819	10M QPSK(1,24)	0.038	0.029	-2.87	23.15	23.50	0.041	2024/1/10	
Right Cheek	26740/819	10M QPSK(1,24)	0.060	0.045	0.53	23.15	23.50	0.065	2024/1/10	
Right Tilt 15 Degree	26740/819	10M QPSK(1,24)	0.028	0.021	0.00	23.15	23.50	0.030	2024/1/10	
50%RB										
Left Cheek	26740/819	10M QPSK(25,0)	0.039	0.029	1.06	22.16	22.50	0.042	2024/1/10	
Left Tilt 15 Degree	26740/819	10M QPSK(25,0)	0.019	0.016	-0.30	22.16	22.50	0.021	2024/1/10	
Right Cheek	26740/819	10M QPSK(25,0)	0.034	0.025	-4.11	22.16	22.50	0.037	2024/1/10	
Right Tilt 15 Degree	26740/819	10M QPSK(25,0)	0.016	0.011	-0.67	22.16	22.50	0.017	2024/1/10	

NOTE: Head SAR test results of LTE Band 26A

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
1RB										
Front Side	26740/819	10M QPSK(1,24)	0.078	0.059	0.75	23.15	23.50	0.085	2024/1/10	
Back Side	26740/819	10M QPSK(1,24)	0.091	0.069	0.65	23.15	23.50	0.099	2024/1/10	34#
50%RB										
Front Side	26740/819	10M QPSK(25,0)	0.039	0.035	-2.36	22.16	22.50	0.042	2024/1/10	
Back Side	26740/819	10M OPSK(25,0)	0.047	0.036	0.93	22.16	22.50	0.051	2024/1/10	

NOTE: Body-Worn SAR test results of LTE Band 26A

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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of Hotspot with 10mm			1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
1RB										
Front Side	26740/819	10M QPSK(1,24)	0.078	0.059	0.75	23.15	23.50	0.085	2024/1/10	
Back Side	26740/819	10M QPSK(1,24)	0.091	0.069	0.65	23.15	23.50	0.099	2024/1/10	34#
Left Side	26740/819	10M QPSK(1,24)	0.045	0.035	1.16	23.15	23.50	0.049	2024/1/10	
Right Side	26740/819	10M QPSK(1,24)	0.042	0.032	2.26	23.15	23.50	0.046	2024/1/10	
Bottom Side	26740/819	10M QPSK(1,24)	0.060	0.045	0.41	23.15	23.50	0.065	2024/1/10	
50%RB										
Front Side	26740/819	10M QPSK(25,0)	0.039	0.035	-2.36	22.16	22.50	0.042	2024/1/10	
Back Side	26740/819	10M QPSK(25,0)	0.047	0.036	0.93	22.16	22.50	0.051	2024/1/10	
Left Side	26740/819	10M QPSK(25,0)	0.026	0.021	4.44	22.16	22.50	0.028	2024/1/10	
Right Side	26740/819	10M QPSK(25,0)	0.021	0.018	-0.79	22.16	22.50	0.023	2024/1/10	
Bottom Side	26740/819	10M QPSK(25,0)	0.033	0.025	0.18	22.16	22.50	0.036	2024/1/10	

NOTE: Hotspot SAR test results of LTE Band 26A

10.1.14. SAR measurement Result of LTE Band 26B

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	26865/831.5	15M QPSK(1,37)	0.068	0.054	3.53	23.06	23.50	0.075	2024/1/10	35#
Left Tilt 15	26865/831.5	15M QPSK(1,37)	0.039	0.030	2.67	23.06	23.50	0.043	2024/1/10	

Degree										
Right Cheek	26865/831.5	15M QPSK(1,37)	0.061	0.048	0.26	23.06	23.50	0.068	2024/1/10	
Right Tilt 15 Degree	26865/831.5	15M QPSK(1,37)	0.032	0.024	-2.17	23.06	23.50	0.035	2024/1/10	
50%RB										
Left Cheek	26865/831.5	15M QPSK(36,18)	0.037	0.030	-1.15	22.12	22.50	0.040	2024/1/10	
Left Tilt 15 Degree	26865/831.5	15M QPSK(36,18)	0.022	0.016	0.54	22.12	22.50	0.024	2024/1/10	
Right Cheek	26865/831.5	15M QPSK(36,18)	0.032	0.026	1.51	22.12	22.50	0.035	2024/1/10	
Right Tilt 15 Degree	26865/831.5	15M QPSK(36,18)	0.017	0.012	-2.97	22.12	22.50	0.019	2024/1/10	

NOTE: Head SAR test results of LTE Band 26B

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26865/831.5	15M QPSK(1,37)	0.067	0.043	-0.29	23.06	23.50	0.074	2024/1/10	
Back Side	26865/831.5	15M QPSK(1,37)	0.091	0.070	-0.09	23.06	23.50	0.101	2024/1/10	36#
50%RB										
Front Side	26865/831.5	15M QPSK(36,18)	0.037	0.023	-1.67	22.12	22.50	0.040	2024/1/10	
Back Side	26865/831.5	15M OPSK(36,18)	0.046	0.041	0.29	22.12	22.50	0.050	2024/1/10	

NOTE: Body-Worn SAR test results of LTE Band 26B

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26865/831.5	15M QPSK(1,37)	0.067	0.043	-0.29	23.06	23.50	0.074	2024/1/10	

Back Side	26865/831.5	15M QPSK(1,37)	0.091	0.070	-0.09	23.06	23.50	0.101	2024/1/10	36#
Left Side	26865/831.5	15M QPSK(1,37)	0.038	0.028	-0.89	23.06	23.50	0.042	2024/1/10	
Right Side	26865/831.5	15M QPSK(1,37)	0.033	0.025	-0.87	23.06	23.50	0.037	2024/1/10	
Bottom Side	26865/831.5	15M QPSK(1,37)	0.055	0.042	-1.68	23.06	23.50	0.061	2024/1/10	
50%RB										
Front Side	26865/831.5	15M QPSK(36,18)	0.037	0.023	-1.67	22.12	22.50	0.040	2024/1/10	
Back Side	26865/831.5	15M QPSK(36,18)	0.046	0.041	0.29	22.12	22.50	0.050	2024/1/10	
Left Side	26865/831.5	15M QPSK(36,18)	0.021	0.015	2.77	22.12	22.50	0.023	2024/1/10	
Right Side	26865/831.5	15M QPSK(36,18)	0.019	0.014	-2.23	22.12	22.50	0.021	2024/1/10	
Bottom Side	26865/831.5	15M QPSK(36,18)	0.030	0.025	2.26	22.12	22.50	0.033	2024/1/10	

NOTE: Hotspot SAR test results of LTE Band 26B

10.1.15. SAR measurement Result of LTE Band 41

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	40640/2595	20M QPSK(1,49)	0.062	0.037	2.81	23.26	23.50	0.066	2024/1/18	31#
Left Tilt 15 Degree	40640/2595	20M QPSK(1,49)	0.034	0.020	-2.85	23.26	23.50	0.036	2024/1/18	
Right Cheek	40640/2595	20M QPSK(1,49)	0.057	0.032	0.70	23.26	23.50	0.060	2024/1/18	
Right Tilt 15 Degree	40640/2595	20M QPSK(1,49)	0.031	0.018	-2.80	23.26	23.50	0.033	2024/1/18	
50%RB										

Left Cheek	40640/2595	20M QPSK(50,49)	0.033	0.019	-1.37	22.09	23.00	0.041	2024/1/18	
Left Tilt 15 Degree	40640/2595	20M QPSK(50,49)	0.018	0.010	4.40	22.09	23.00	0.022	2024/1/18	
Right Cheek	40640/2595	20M QPSK(50,49)	0.029	0.017	4.68	22.09	23.00	0.036	2024/1/18	
Right Tilt 15 Degree	40640/2595	20M QPSK(50,49)	0.017	0.011	-4.32	22.09	23.00	0.021	2024/1/18	

NOTE: Head SAR test results of LTE Band 41

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40640/2595	20M QPSK(1,49)	0.072	0.040	2.38	23.26	23.50	0.076	2024/1/18	
Back Side	40640/2595	20M QPSK(1,49)	0.115	0.067	-0.05	23.26	23.50	0.122	2024/1/18	32#
50%RB										
Front Side	40640/2595	20M QPSK(50,49)	0.040	0.022	1.77	22.09	23.00	0.049	2024/1/18	
Back Side	40640/2595	20M QPSK(50,49)	0.063	0.039	1.84	22.09	23.00	0.078	2024/1/18	

NOTE: Body-Worn SAR test results of LTE Band 41

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40640/2595	20M QPSK(1,49)	0.072	0.040	2.38	23.26	23.50	0.076	2024/1/18	
Back Side	40640/2595	20M QPSK(1,49)	0.115	0.067	-0.05	23.26	23.50	0.122	2024/1/18	32#
Left Side	40640/2595	20M QPSK(1,49)	0.042	0.025	1.01	23.26	23.50	0.044	2024/1/18	
Right Side	40640/2595	20M QPSK(1,49)	0.039	0.022	-1.61	23.26	23.50	0.041	2024/1/18	
Bottom	40640/2595	20M QPSK(1,49)	0.060	0.033	-2.00	23.26	23.50	0.063	2024/1/18	

Side										
50%RB										
Front Side	40640/2595	20M QPSK(50,49)	0.040	0.022	1.77	22.09	23.00	0.049	2024/1/18	
Back Side	40640/2595	20M QPSK(50,49)	0.063	0.039	1.84	22.09	23.00	0.078	2024/1/18	
Left Side	40640/2595	20M QPSK(50,49)	0.025	0.013	-1.78	22.09	23.00	0.031	2024/1/18	
Right Side	40640/2595	20M QPSK(50,49)	0.020	0.012	-3.19	22.09	23.00	0.025	2024/1/18	
Bottom Side	40640/2595	20M QPSK(50,49)	0.030	0.018	-2.25	22.09	23.00	0.037	2024/1/18	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.16. SAR measurement Result of LTE Band 66

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	132322/1745	20M QPSK(1,49)	0.072	0.048	4.32	24.02	24.50	0.080	2024/1/08	37#
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.040	0.026	-1.85	24.02	24.50	0.045	2024/1/08	
Right Cheek	132322/1745	20M QPSK(1,49)	0.067	0.044	-0.75	24.02	24.50	0.075	2024/1/08	
Right Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.034	0.023	2.48	24.02	24.50	0.038	2024/1/08	
50%RB										
Left Cheek	132322/1745	20M QPSK(50,24)	0.038	0.028	2.27	23.03	23.50	0.042	2024/1/08	
Left Tilt 15 Degree	132322/1745	20M QPSK(50,24)	0.022	0.014	3.63	23.03	23.50	0.025	2024/1/08	
Right Cheek	132322/1745	20M QPSK(50,24)	0.032	0.023	-4.57	23.03	23.50	0.036	2024/1/08	

Right Tilt 15 Degree	132322/1745	20M QPSK(50,24)	0.020	0.013	-1.46	23.03	23.50	0.022	2024/1/08	
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NOTE: Head SAR test results of LTE Band 66

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,49)	0.116	0.074	2.61	24.02	24.50	0.130	2024/1/08	
Back Side	132322/1745	20M QPSK(1,49)	0.371	0.213	-3.11	24.02	24.50	0.414	2024/1/08	38#
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.067	0.042	1.36	23.03	23.50	0.075	2024/1/08	
Back Side	132322/1745	20M QPSK(50,24)	0.215	0.107	1.39	23.03	23.50	0.240	2024/1/08	

NOTE: Body-Worn SAR test results of LTE Band 66

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,49)	0.116	0.074	2.61	24.02	24.50	0.130	2024/1/08	
Back Side	132322/1745	20M QPSK(1,49)	0.371	0.213	-3.11	24.02	24.50	0.414	2024/1/08	38#
Left Side	132322/1745	20M QPSK(1,49)	0.110	0.072	3.12	24.02	24.50	0.123	2024/1/08	
Right Side	132322/1745	20M QPSK(1,49)	0.105	0.068	-1.85	24.02	24.50	0.117	2024/1/08	
Bottom Side	132322/1745	20M QPSK(1,49)	0.200	0.114	1.20	24.02	24.50	0.223	2024/1/08	
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.067	0.042	1.36	23.03	23.50	0.075	2024/1/08	
Back Side	132322/1745	20M QPSK(50,24)	0.215	0.107	1.39	23.03	23.50	0.240	2024/1/08	
Left	132322/1745	20M QPSK(50,24)	0.062	0.040	-3.22	23.03	23.50	0.069	2024/1/08	

Side										
Right Side	132322/1745	20M QPSK(50,24)	0.061	0.034	3.89	23.03	23.50	0.068	2024/1/08	
Bottom Side	132322/1745	20M QPSK(50,24)	0.106	0.061	-3.38	23.03	23.50	0.118	2024/1/08	

NOTE: Hotspot SAR test results of LTE Band 66

10.1.17. SAR measurement Result of WLAN 2.4G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1/2412	802.11b	0.022	0.017	2.26	15.20	15.50	0.024	2024/1/09	15#
Left Tilt 15 Degree	1/2412	802.11b	0.013	0.011	2.98	15.20	15.50	0.014	2024/1/09	
Right Cheek	1/2412	802.11b	0.020	0.015	3.57	15.20	15.50	0.021	2024/1/09	
Right Tilt 15 Degree	1/2412	802.11b	0.010	0.008	3.45	15.20	15.50	0.011	2024/1/09	

NOTE: Head SAR test results of WLAN2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1/2412	802.11b	0.014	0.012	2.01	15.20	15.50	0.015	2024/1/09	
Back Side	1/2412	802.11b	0.017	0.014	-1.95	15.20	15.50	0.018	2024/1/09	16#

NOTE: Body-worn SAR test results of WLAN2.4G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front	1/2412	802.11b	0.014	0.012	2.01	15.20	15.50	0.015	2024/1/09	

Side										
Back Side	1/2412	802.11b	0.017	0.014	-1.95	15.20	15.50	0.018	2024/1/09	16#
Left Side	1/2412	802.11b	0.009	0.007	1.84	15.20	15.50	0.010	2024/1/09	
Top Side	1/2412	802.11b	0.015	0.013	0.28	15.20	15.50	0.016	2024/1/09	

NOTE: Hotspot SAR test results of WLAN2.4G

10.1.18. SAR measurement Result of WLAN 5.2G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	48/5240	802.11a	0.170	0.084	-0.93	10.90	11.00	0.174	2024/1/02	11#
Left Tilt 15 Degree	48/5240	802.11a	0.100	0.047	-1.54	10.90	11.00	0.102	2024/1/02	
Right Cheek	48/5240	802.11a	0.161	0.076	3.71	10.90	11.00	0.165	2024/1/02	
Right Tilt 15 Degree	48/5240	802.11a	0.084	0.040	-0.46	10.90	11.00	0.086	2024/1/02	

NOTE: Head SAR test results of WLAN5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	48/5240	802.11a	0.051	0.034	0.45	10.90	11.00	0.052	2024/1/02	
Back Side	48/5240	802.11a	0.066	0.052	1.68	10.90	11.00	0.068	2024/1/02	14#

NOTE: Body-worn SAR test results of WLAN5.2G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front	48/5240	802.11a	0.051	0.034	0.45	10.90	11.00	0.052	2024/1/02	

Side										
Back Side	48/5240	802.11a	0.066	0.052	1.68	10.90	11.00	0.068	2024/1/02	14#
Left Side	48/5240	802.11a	0.035	0.022	0.21	10.90	11.00	0.036	2024/1/02	
Top Side	48/5240	802.11a	0.030	0.018	1.02	10.90	11.00	0.031	2024/1/02	

NOTE: Hotspot SAR test results of WLAN5.2G

10.1.19. SAR measurement Result of WLAN 5.8G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	165/5825	802.11a	0.160	0.083	-3.72	10.24	10.50	0.170	2024/1/15	12#
Left Tilt 15 Degree	165/5825	802.11a	0.081	0.041	2.20	10.24	10.50	0.086	2024/1/15	
Right Cheek	165/5825	802.11a	0.141	0.070	3.85	10.24	10.50	0.150	2024/1/15	
Right Tilt 15 Degree	165/5825	802.11a	0.067	0.035	-2.90	10.24	10.50	0.071	2024/1/15	

NOTE: Head SAR test results of WLAN5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	165/5825	802.11a	0.054	0.045	2.36	10.24	10.50	0.057	2024/1/15	
Back Side	165/5825	802.11a	0.086	0.067	2.58	10.24	10.50	0.091	2024/1/15	13#

NOTE: Body-worn SAR test results of WLAN5.8G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front	165/5825	802.11a	0.054	0.045	2.36	10.24	10.50	0.057	2024/1/15	

Side										
Back Side	165/5825	802.11a	0.086	0.067	2.58	10.24	10.50	0.091	2024/1/15	13#
Left Side	165/5825	802.11a	0.042	0.030	0.25	10.24	10.50	0.045	2024/1/15	
Top Side	165/5825	802.11a	0.037	0.028	1.17	10.24	10.50	0.039	2024/1/15	

NOTE: Hotspot SAR test results of WLAN5.8G

10.2. Simultaneous Transmission Analysis

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

- Scalar SAR summation $< 1.6\text{W/kg}$.
- $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.163	0.024	0.187	N/A	N/A
	Left Tilt 15 Degree	0.091	0.014	0.105	N/A	N/A
	Right Cheek	0.144	0.021	0.165	N/A	N/A
	Right Tilt 15 Degree	0.069	0.011	0.080	N/A	N/A
Body-Worn	Front Side	0.261	0.015	0.276	N/A	N/A
	Back Side	0.414	0.018	0.432	N/A	N/A
Hotspot	Front Side	0.261	0.015	0.276	N/A	N/A
	Back Side	0.414	0.018	0.432	N/A	N/A
	Left Side	0.130	0.010	0.140	N/A	N/A
	Right Side	0.127	N/A	0.127	N/A	N/A
	Top Side	N/A	0.016	0.016	N/A	N/A
	Bottom Side	0.228	N/A	0.228	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.163	0.174	0.337	N/A	N/A
	Left Tilt 15 Degree	0.091	0.102	0.193	N/A	N/A

	Right Cheek	0.144	0.165	0.309	N/A	N/A
	Right Tilt 15 Degree	0.069	0.086	0.155	N/A	N/A
Body-Worn	Front Side	0.261	0.057	0.318	N/A	N/A
	Back Side	0.414	0.091	0.505	N/A	N/A
Hotspot	Front Side	0.261	0.057	0.318	N/A	N/A
	Back Side	0.414	0.091	0.505	N/A	N/A
	Left Side	0.130	0.045	0.175	N/A	N/A
	Right Side	0.127	N/A	0.127	N/A	N/A
	Top Side	N/A	0.039	0.039	N/A	N/A
	Bottom Side	0.228	N/A	0.228	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.163	0.132	0.295	N/A	N/A
	Left Tilt 15 Degree	0.091	0.132	0.223	N/A	N/A
	Right Cheek	0.144	0.132	0.276	N/A	N/A
	Right Tilt 15 Degree	0.069	0.132	0.201	N/A	N/A
Body-Worn	Front Side	0.261	0.066	0.327	N/A	N/A
	Back Side	0.414	0.066	0.480	N/A	N/A
Hotspot	Front Side	0.261	0.066	0.327	N/A	N/A
	Back Side	0.414	0.066	0.480	N/A	N/A
	Left Side	0.130	0.066	0.196	N/A	N/A
	Right Side	0.127	N/A	0.127	N/A	N/A
	Top Side	N/A	0.066	0.066	N/A	N/A
	Bottom Side	0.228	N/A	0.228	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
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MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

Date of measurement: 19/1/2024

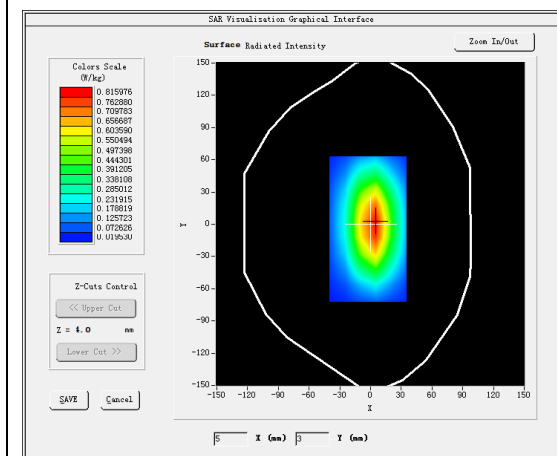
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

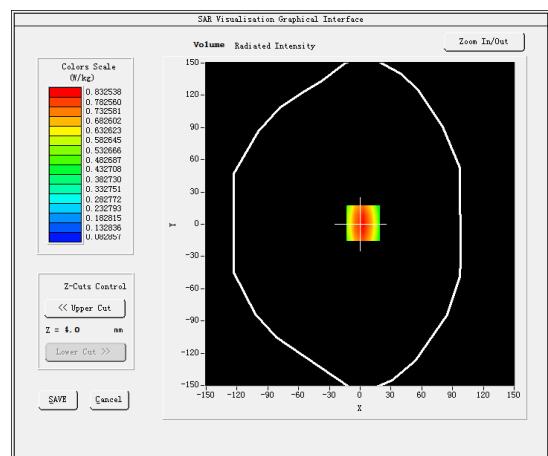
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.549275
Relative permittivity (imaginary part)	21.785379
Conductivity (S/m)	0.907724
Variation (%)	2.730000

SURFACE SAR



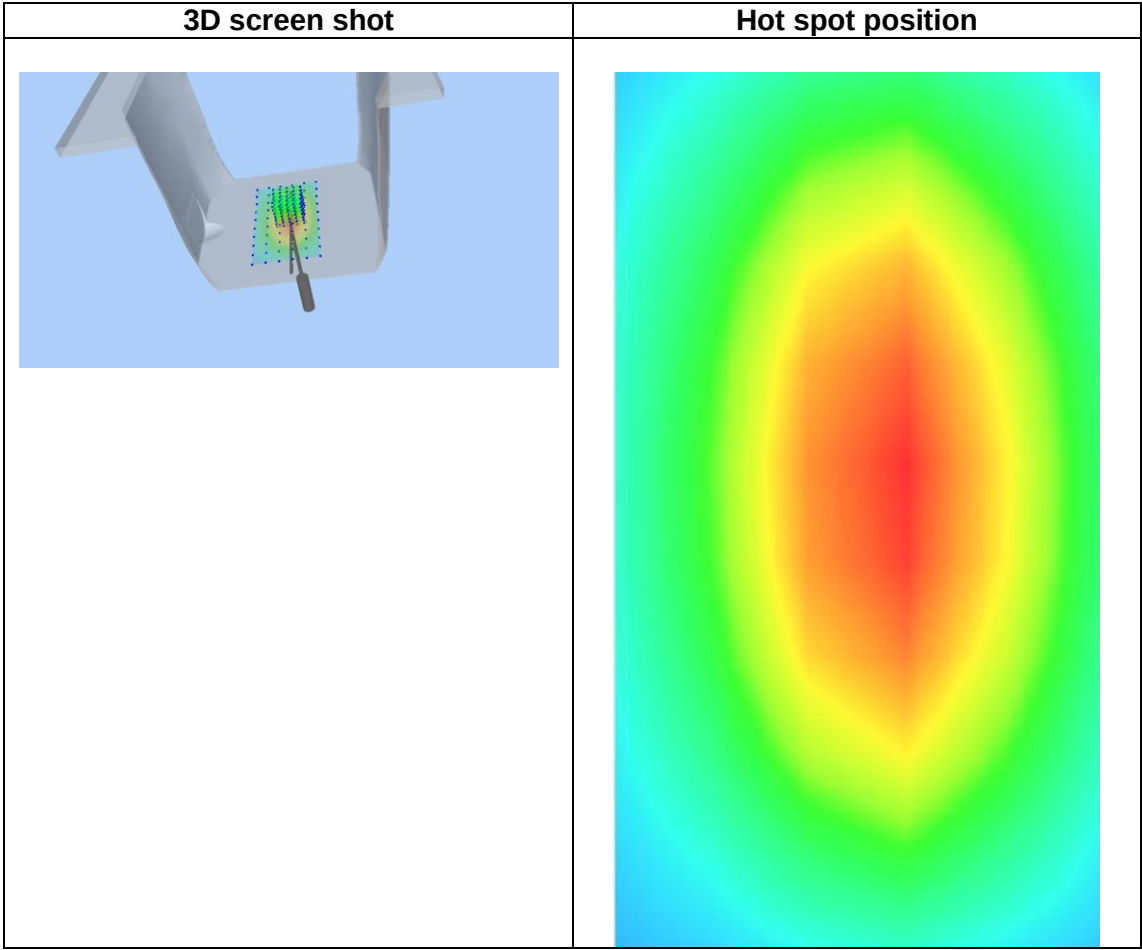
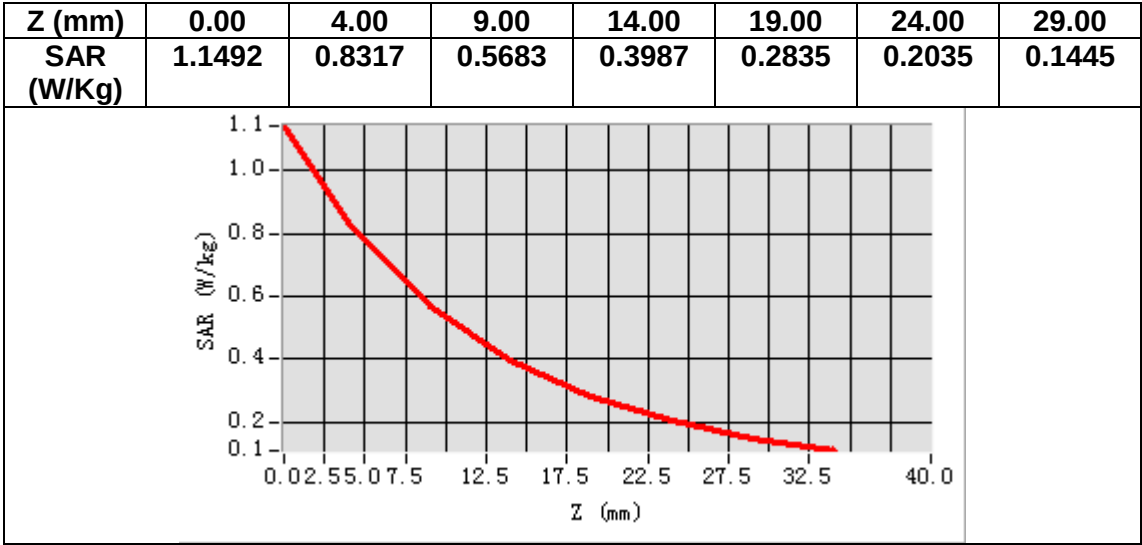
VOLUME SAR



Maximum location: X=3.00, Y=1.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.530332
SAR 1g (W/Kg)	0.776321



MEASUREMENT 2

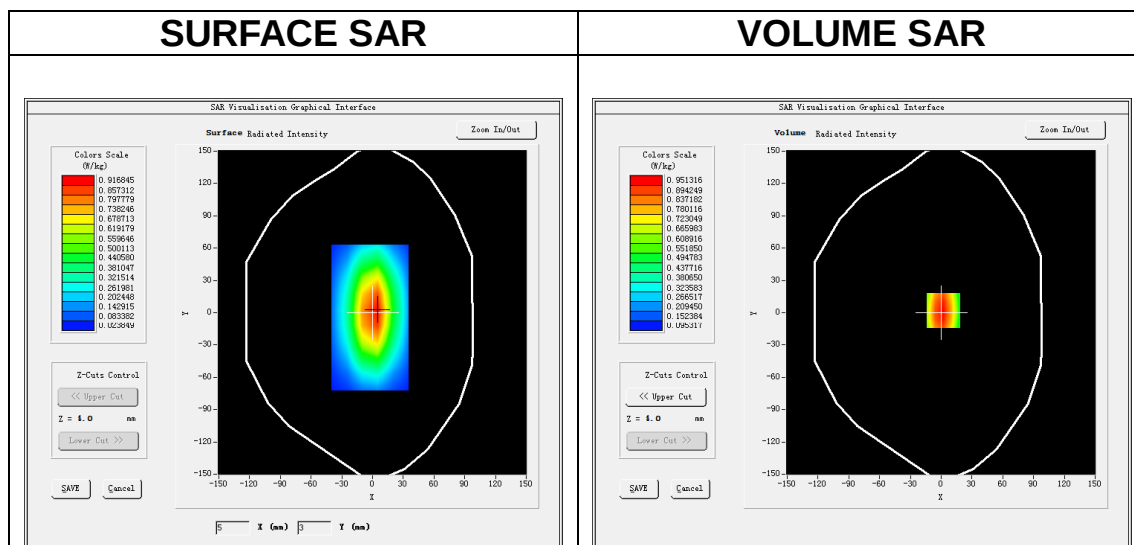
Date of measurement: 10/1/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

B. SAR Measurement Results

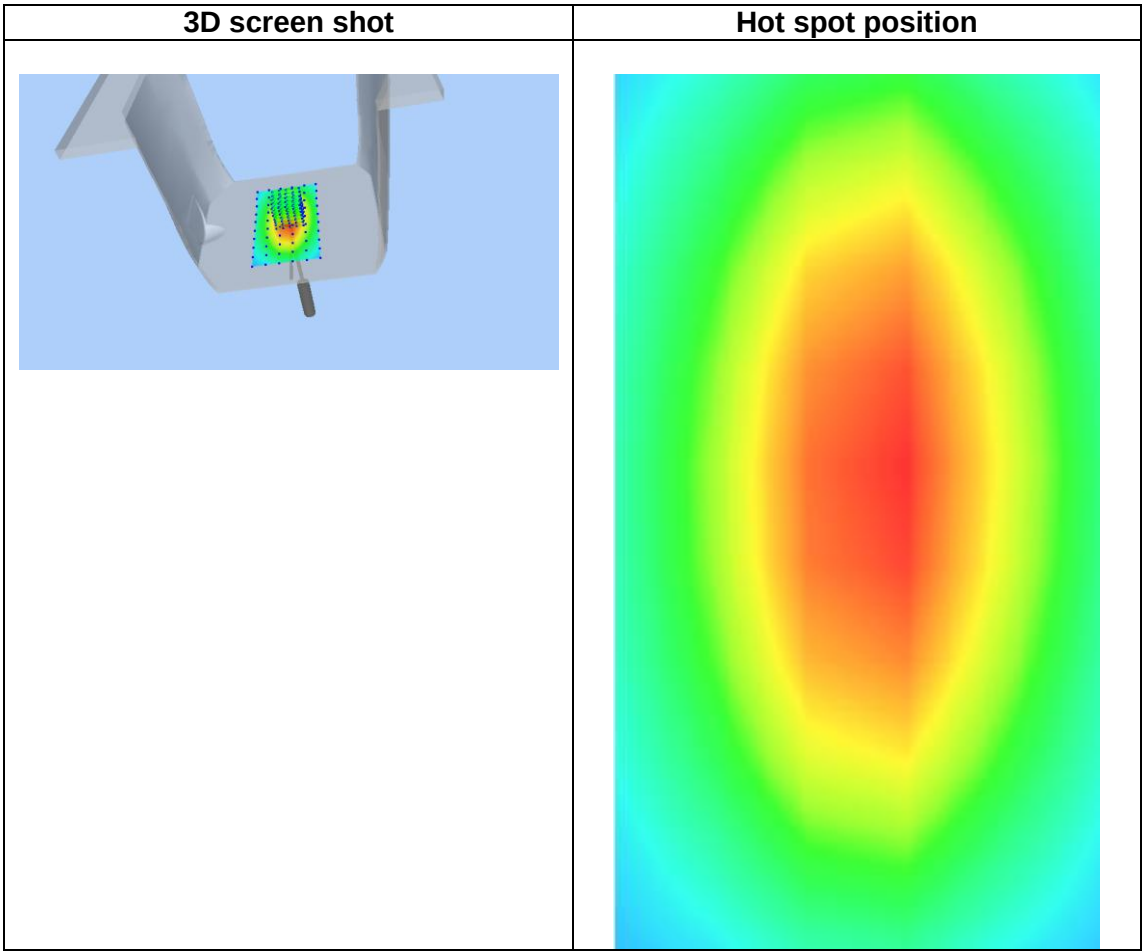
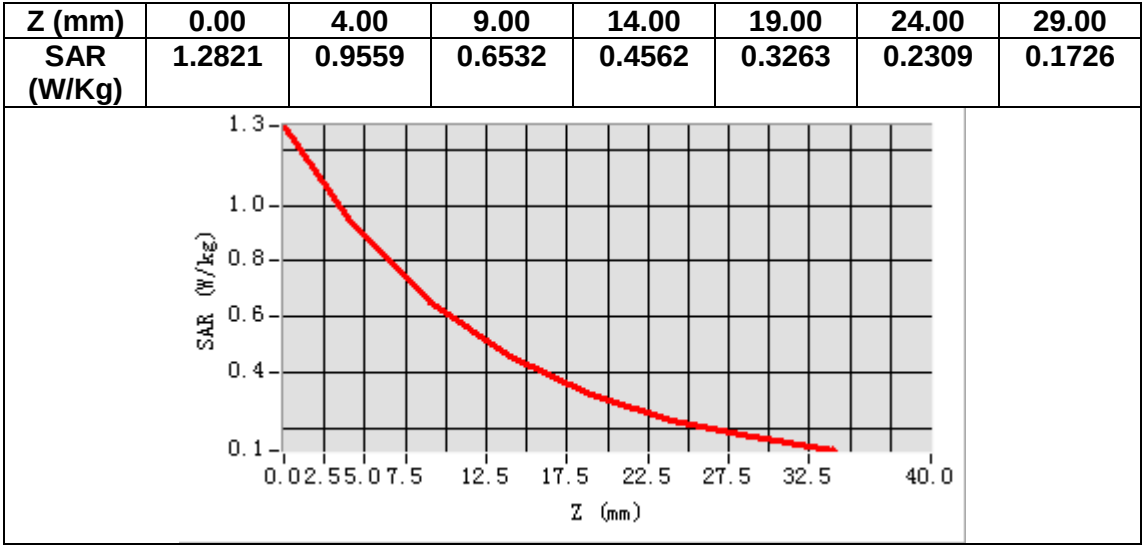
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.258639
Relative permittivity (imaginary part)	19.199080
Conductivity (S/m)	0.890624
Variation (%)	-2.720000



Maximum location: X=2.00, Y=2.00

SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.593333
SAR 1g (W/Kg)	1.035172



MEASUREMENT 3

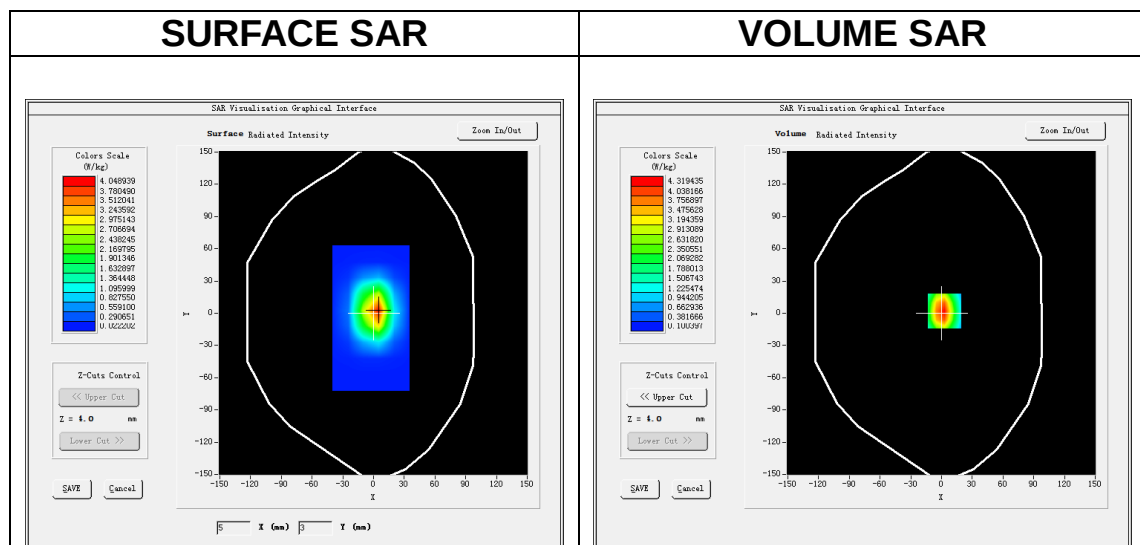
Date of measurement: 8/1/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.45</u>

B. SAR Measurement Results

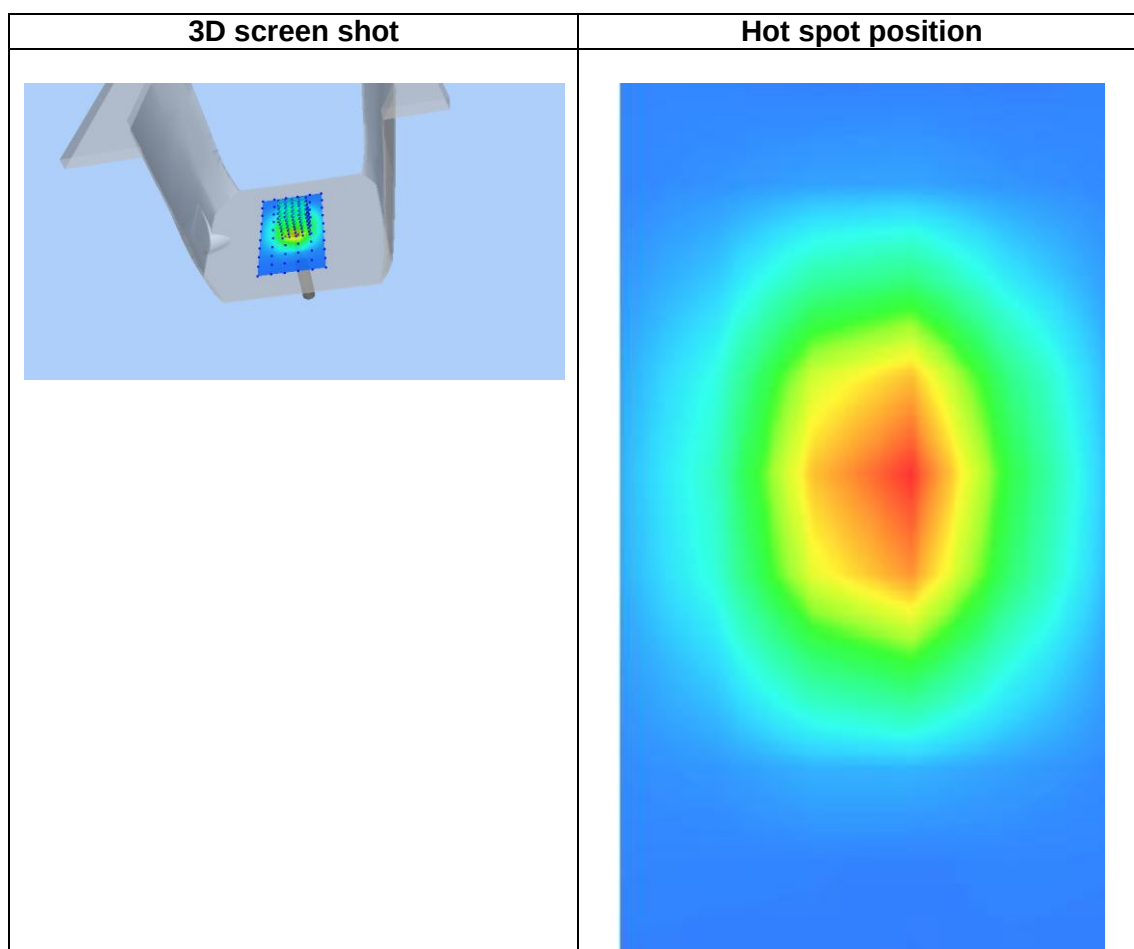
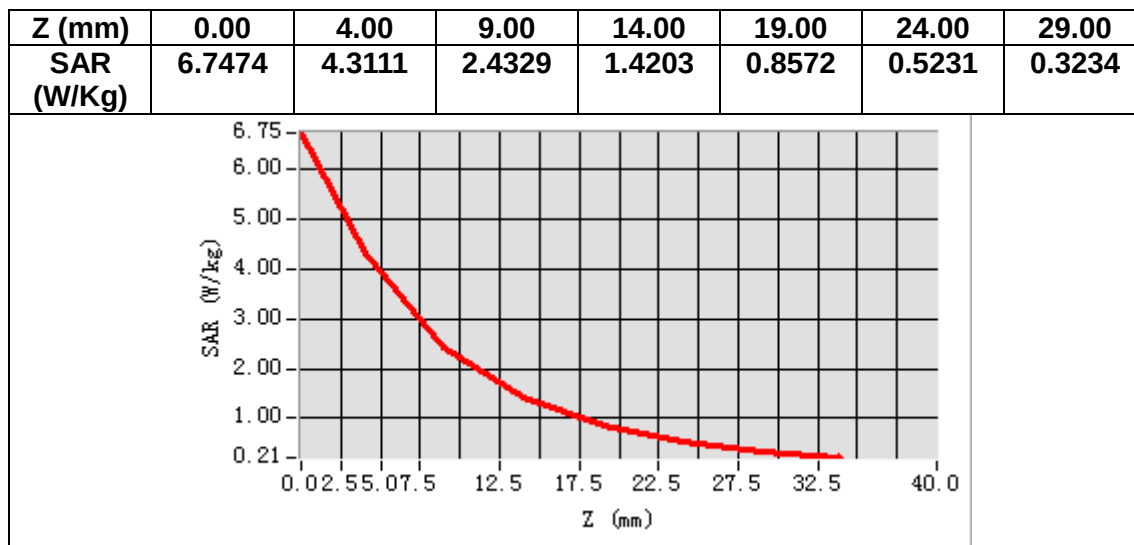
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.535625
Relative permittivity (imaginary part)	13.888505
Conductivity (S/m)	1.388851
Variation (%)	2.980000



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	1.993307
SAR 1g (W/Kg)	3.753066



MEASUREMENT 4

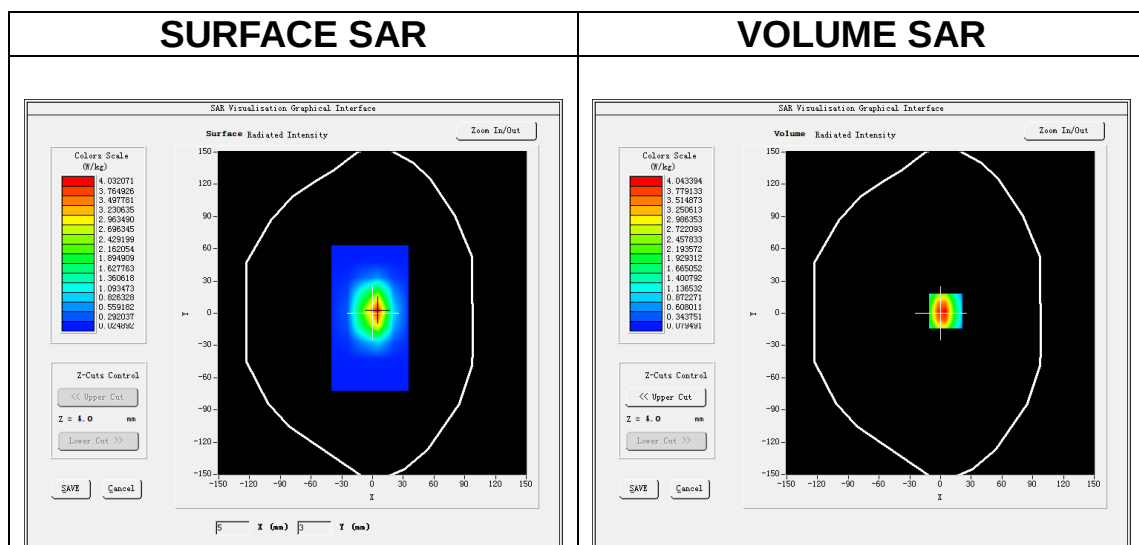
Date of measurement: 11/1/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.63</u>

B. SAR Measurement Results

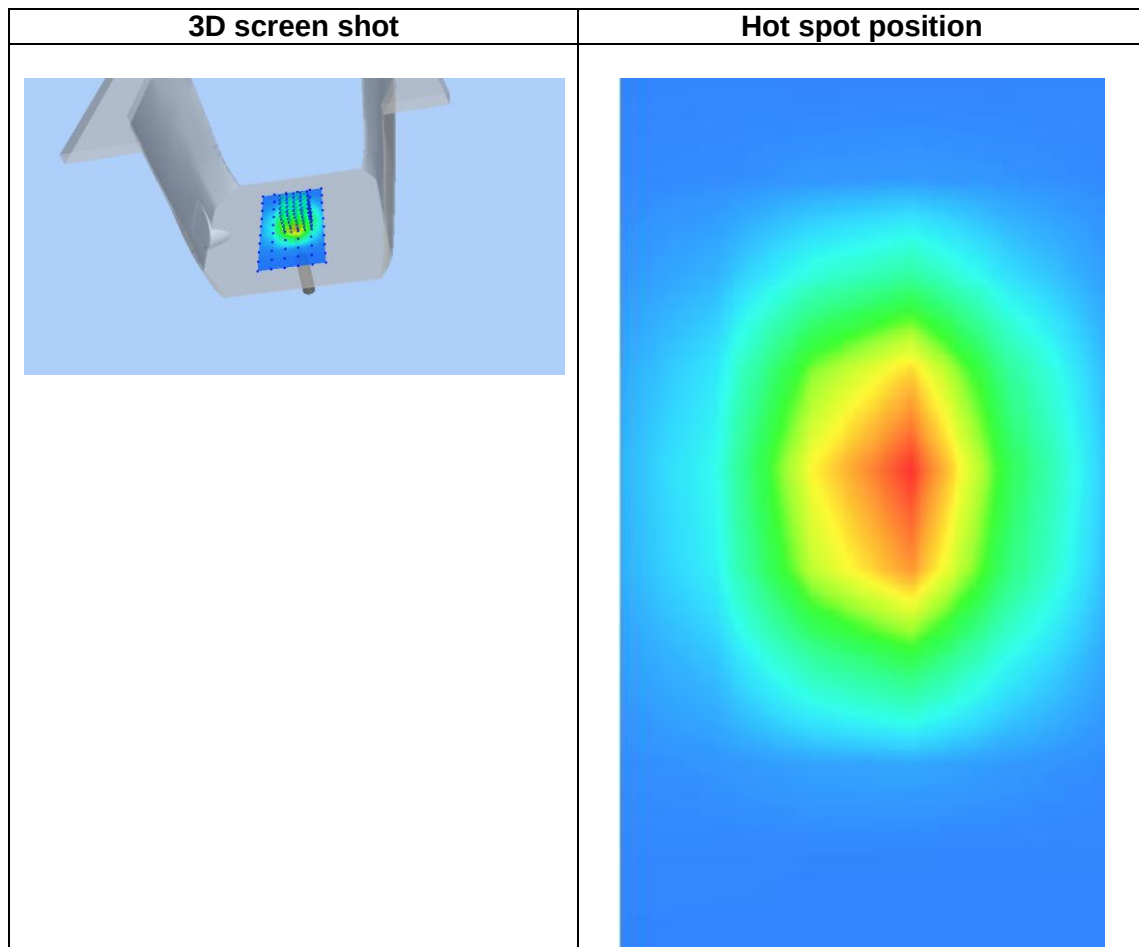
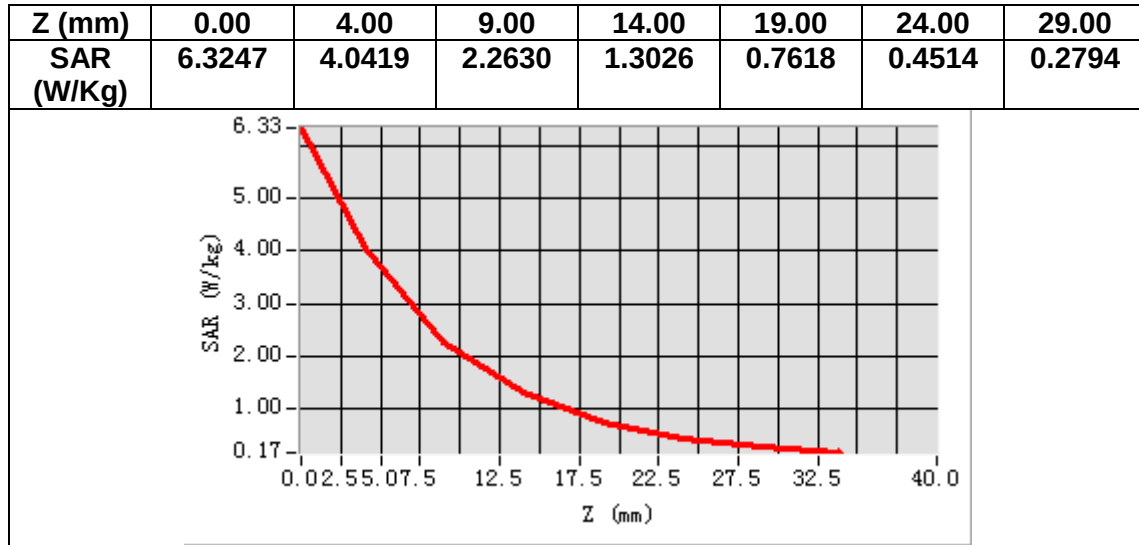
Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.132044
Relative permittivity (imaginary part)	13.839950
Conductivity (S/m)	1.460884
Variation (%)	2.220000



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	2.160347
SAR 1g (W/Kg)	3.882221



MEASUREMENT 5

Date of measurement: 9/1/2024

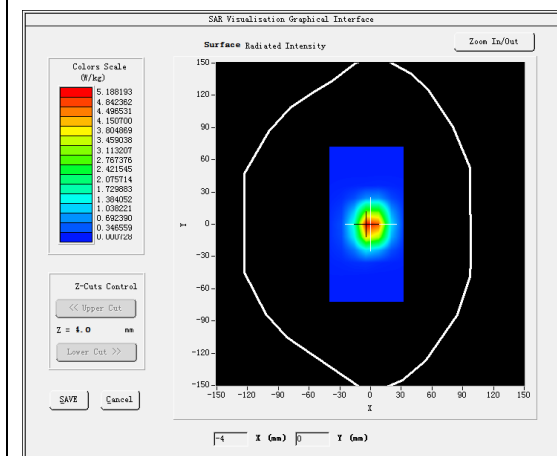
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.85</u>

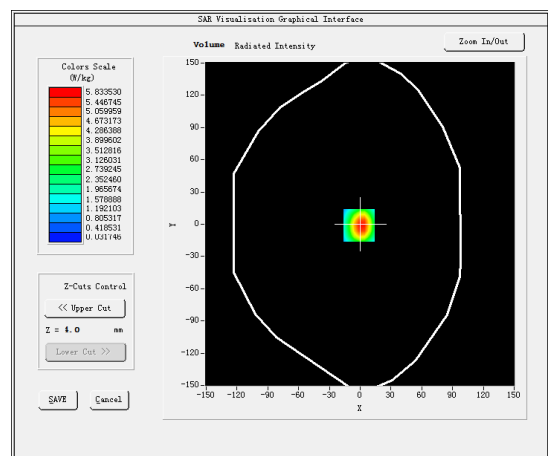
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	38.164719
Relative permittivity (imaginary part)	13.000694
Conductivity (S/m)	1.769539
Variation (%)	1.290000

SURFACE SAR



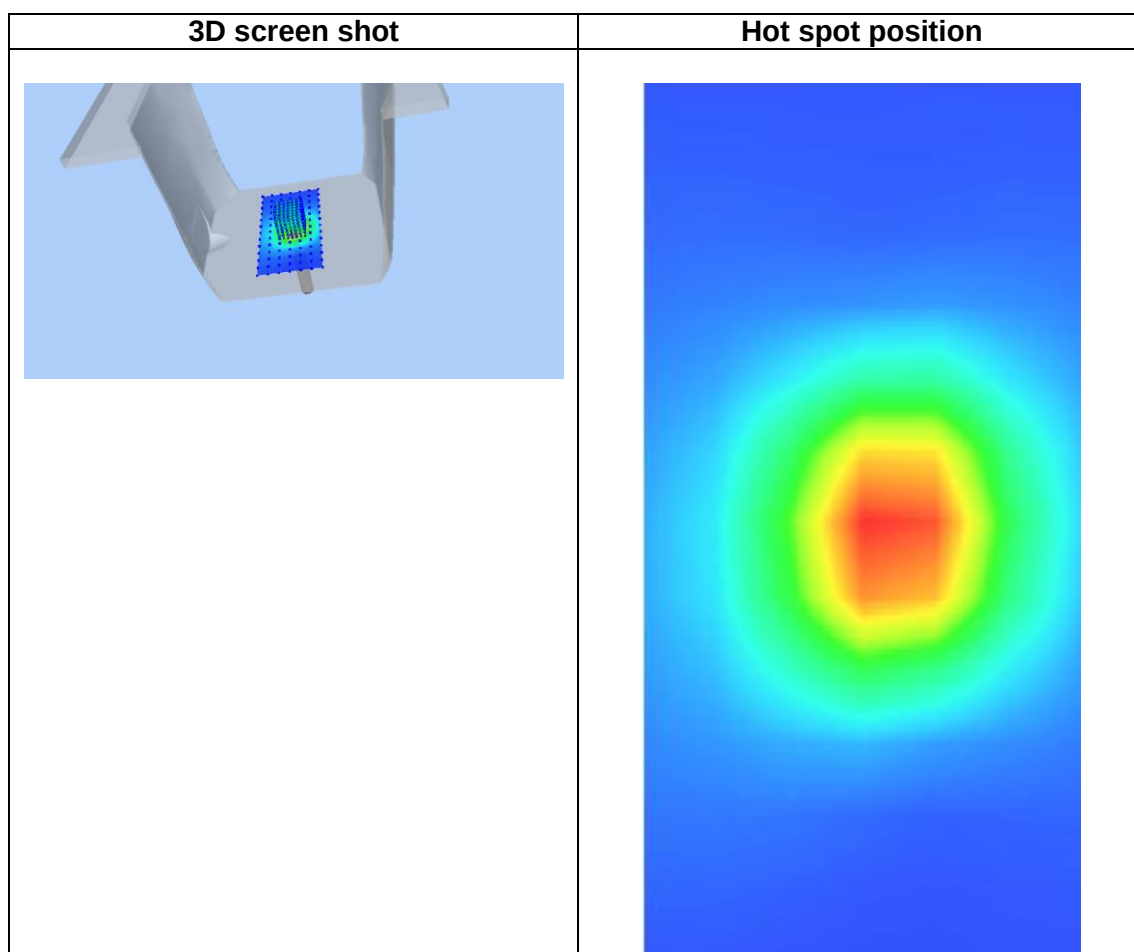
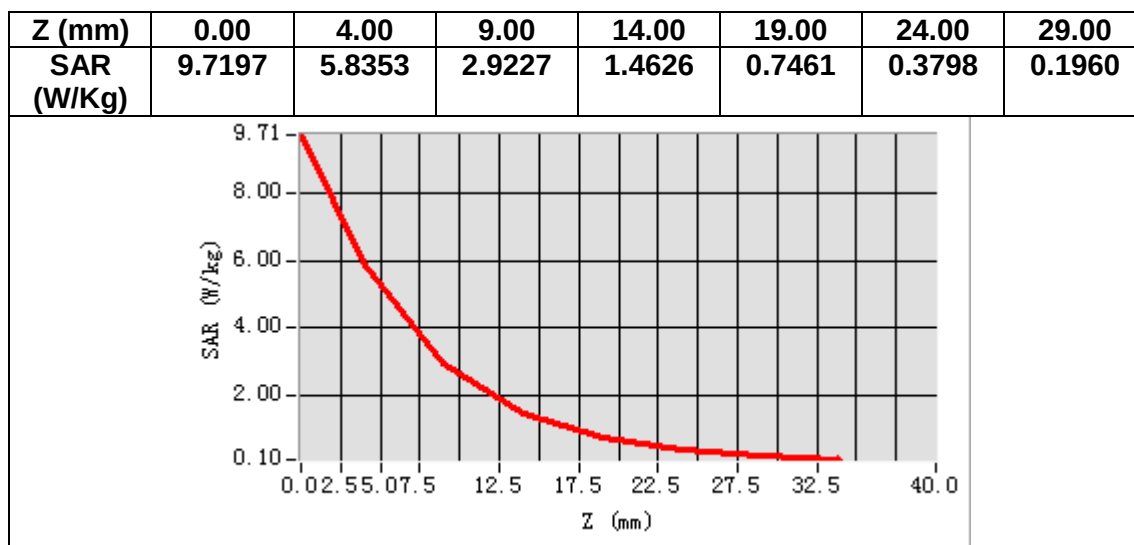
VOLUME SAR



Maximum location: X=-1.00, Y=-1.00

SAR Peak: 9.83 W/kg

SAR 10g (W/Kg)	2.602106
SAR 1g (W/Kg)	5.546340



MEASUREMENT 6

Date of measurement: 18/1/2024

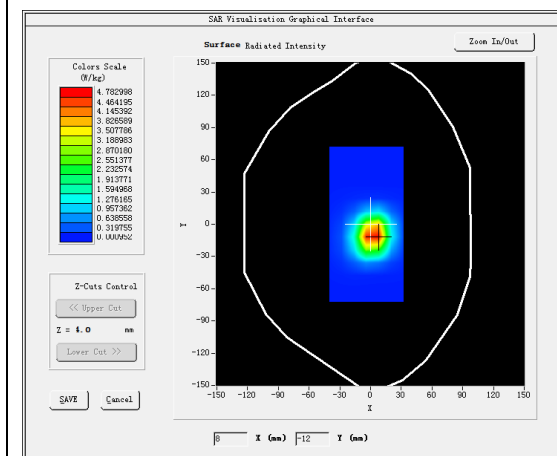
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.65</u>

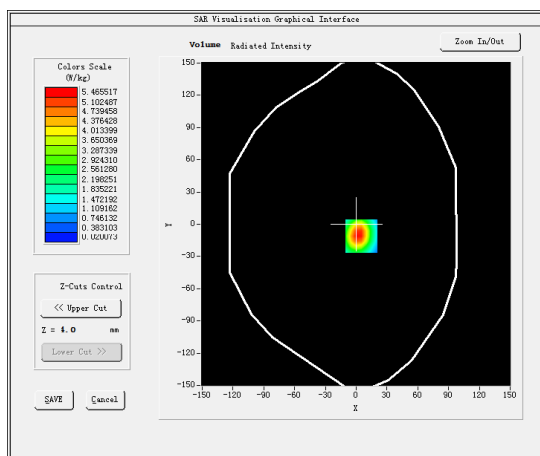
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.667421
Relative permittivity (imaginary part)	13.434174
Conductivity (S/m)	1.940492
Variation (%)	0.250000

SURFACE SAR



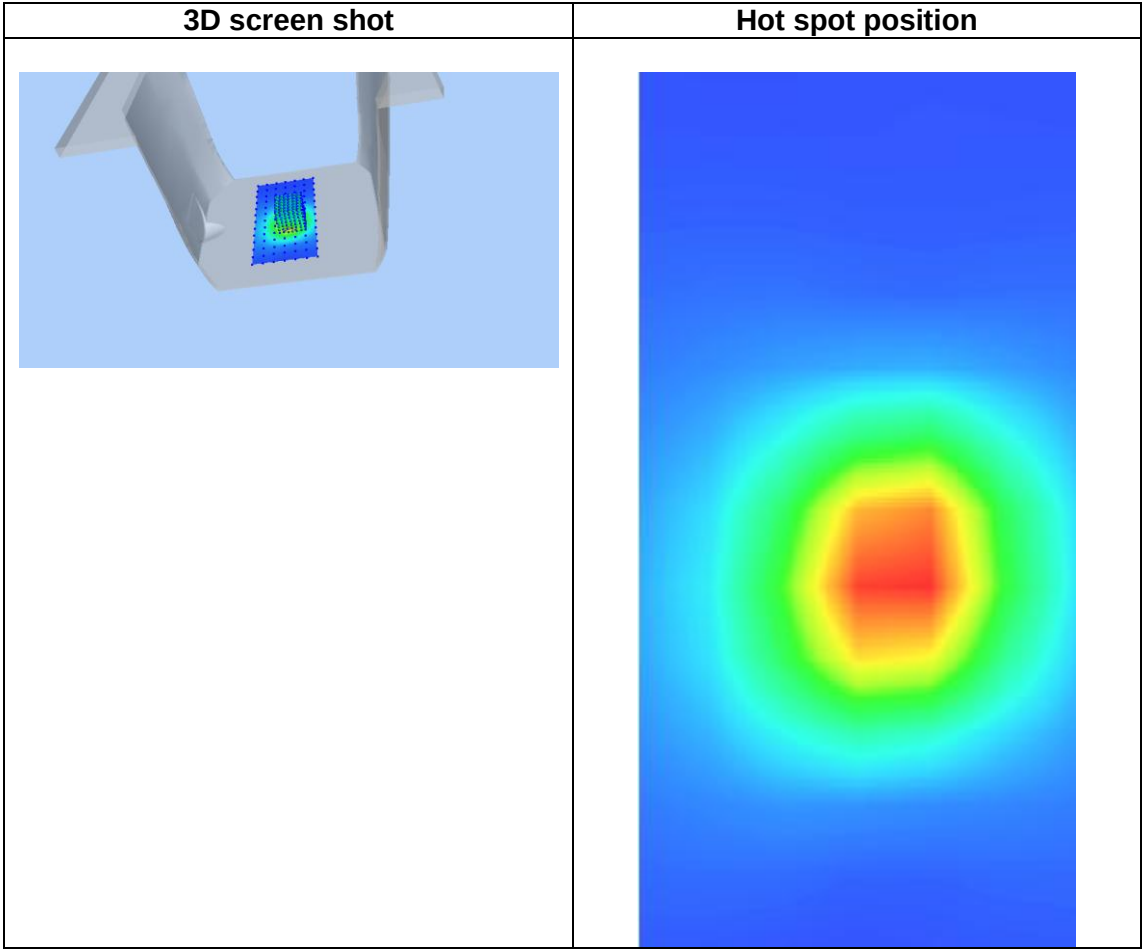
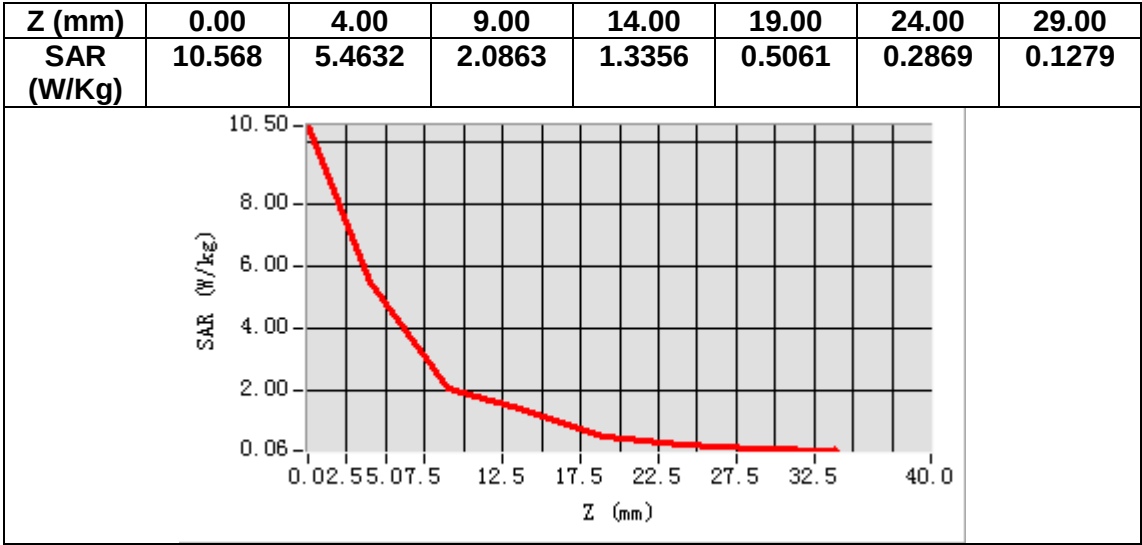
VOLUME SAR



Maximum location: X=5.00, Y=-11.00

SAR Peak: 9.43 W/kg

SAR 10g (W/Kg)	2.287037
SAR 1g (W/Kg)	5.089199



MEASUREMENT 7

Date of measurement: 2/1/2024

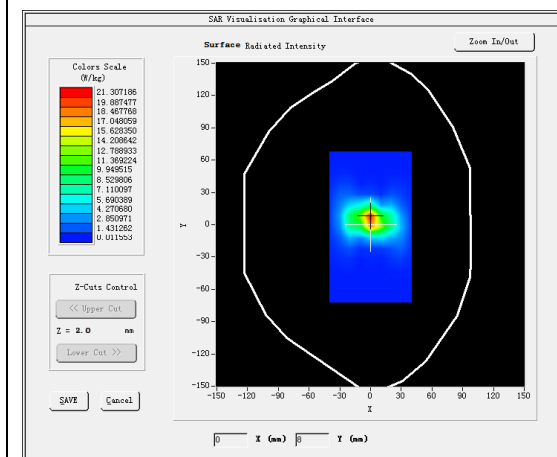
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5200</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.07</u>

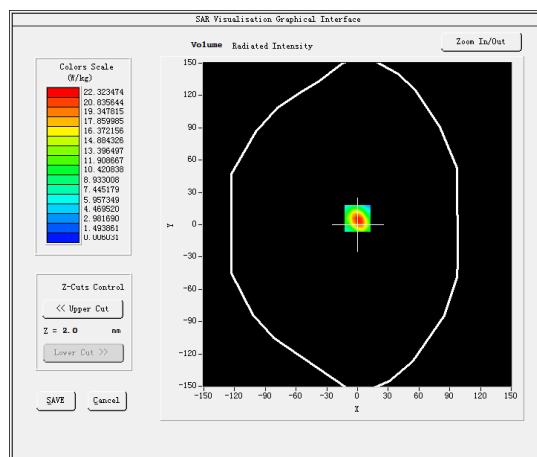
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.215990
Relative permittivity (imaginary part)	15.598512
Conductivity (S/m)	4.506237
Variation (%)	2.800000

SURFACE SAR



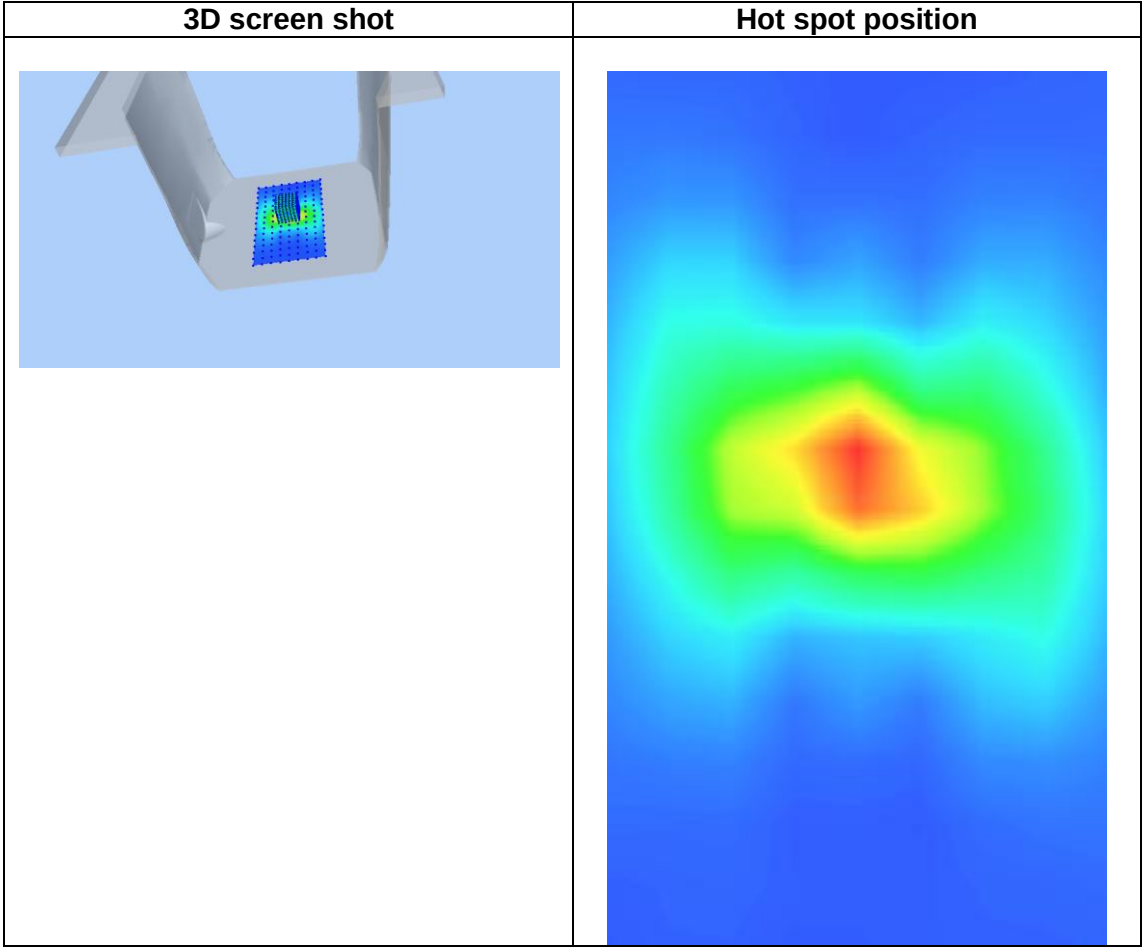
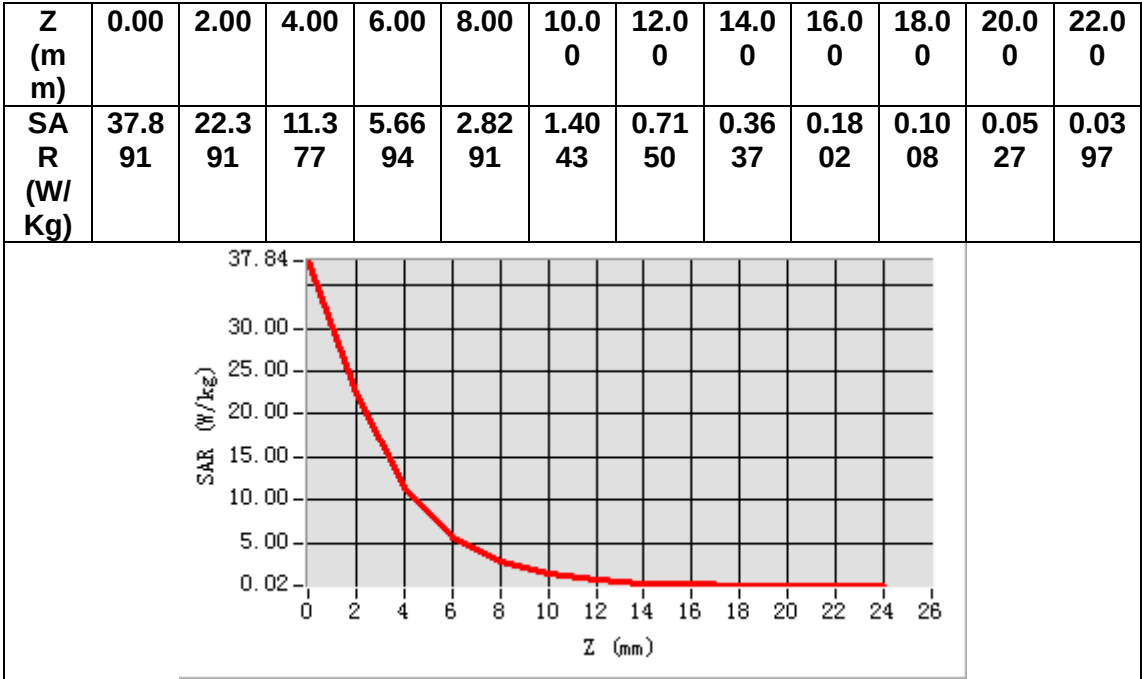
VOLUME SAR



Maximum location: X=0.00, Y=6.00

SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.676162
SAR 1g (W/Kg)	15.688032



MEASUREMENT 8

Date of measurement: 15/1/2024

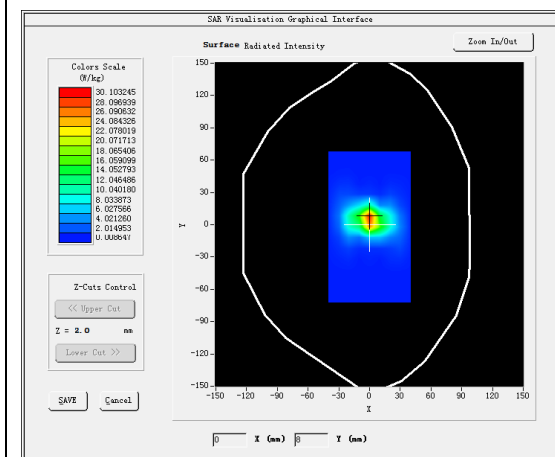
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.04</u>

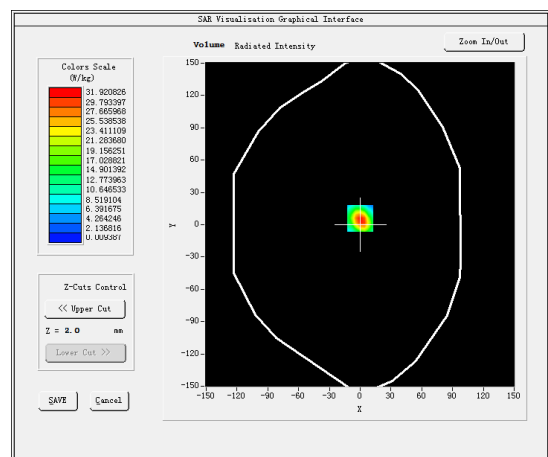
B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.647140
Relative permittivity (imaginary part)	16.122741
Conductivity (S/m)	5.195105
Variation (%)	-0.500000

SURFACE SAR



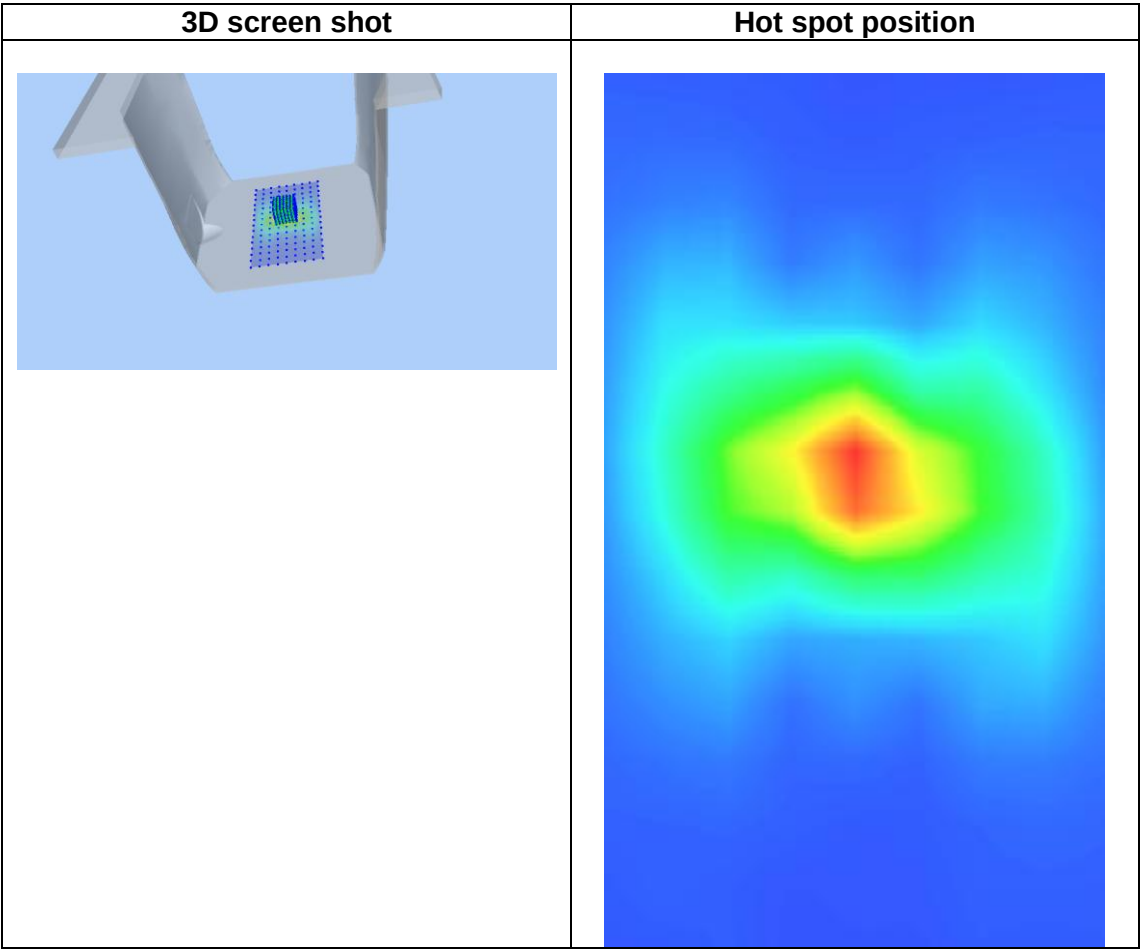
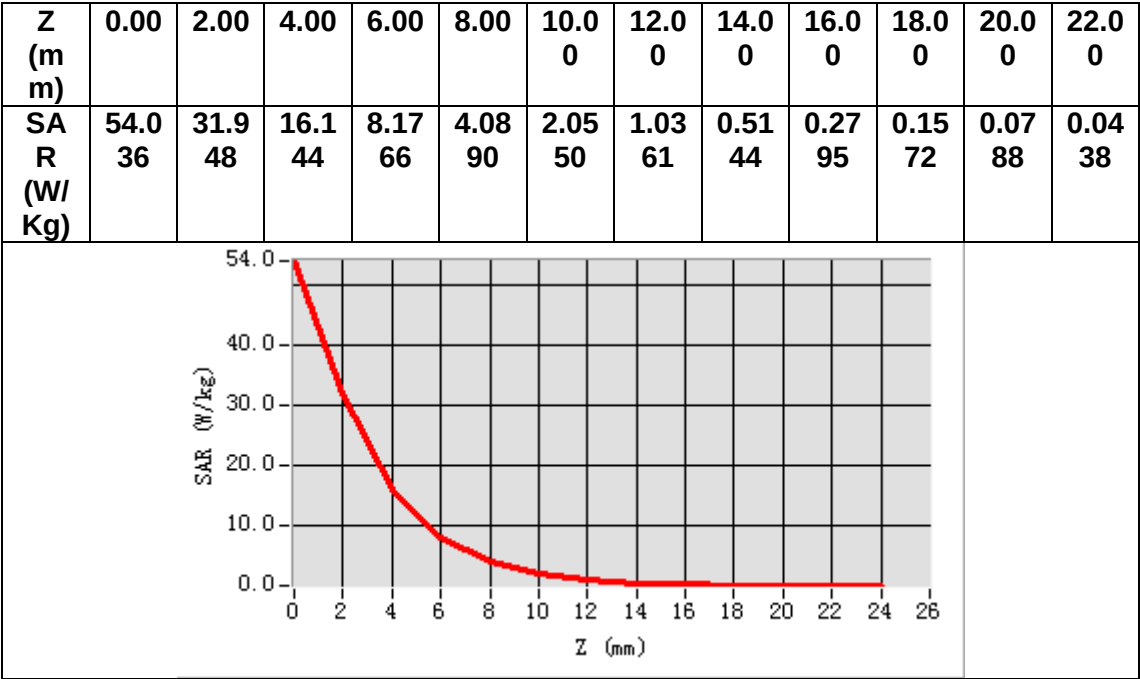
VOLUME SAR



Maximum location: X=0.00, Y=6.00

SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	6.220228
SAR 1g (W/Kg)	16.638190



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

Date of measurement: 10/1/2024

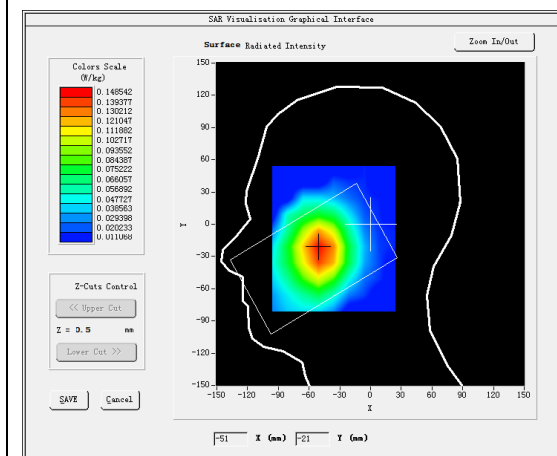
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>
<u>ConvF</u>	<u>2.32</u>

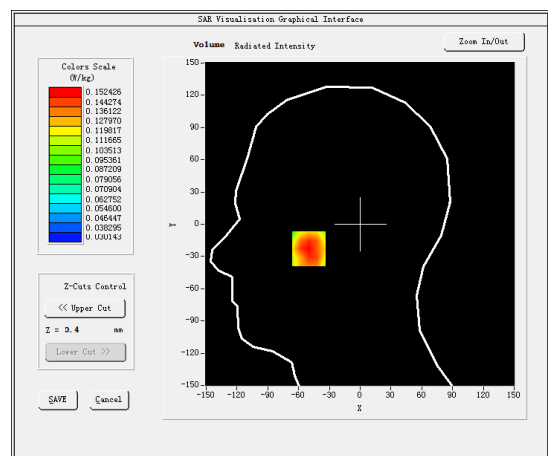
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.267719
Relative permittivity (imaginary part)	19.206280
Conductivity (S/m)	0.892452
Variation (%)	4.040000

SURFACE SAR



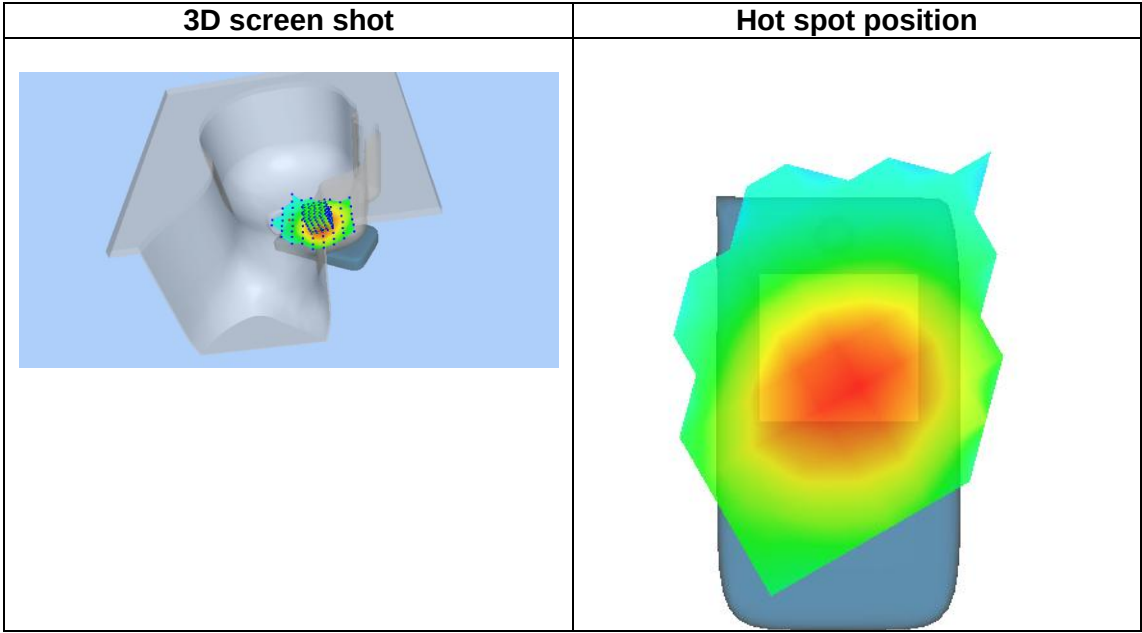
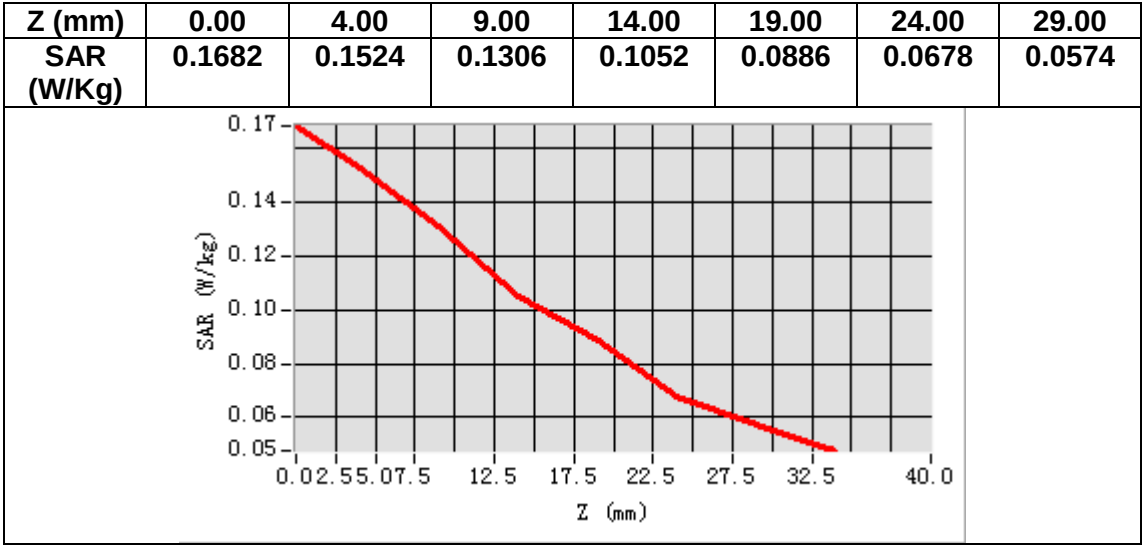
VOLUME SAR



Maximum location: X=-50.00, Y=-23.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.113166
SAR 1g (W/Kg)	0.148857



MEASUREMENT 2

Date of measurement: 10/1/2024

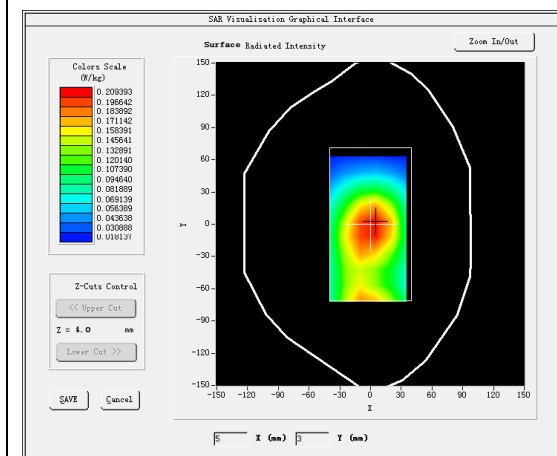
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>
<u>ConvF</u>	<u>2.32</u>

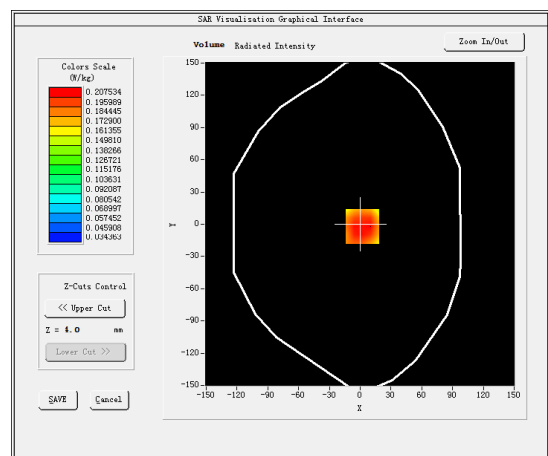
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.267719
Relative permittivity (imaginary part)	19.206280
Conductivity (S/m)	0.892452
Variation (%)	-0.300000

SURFACE SAR



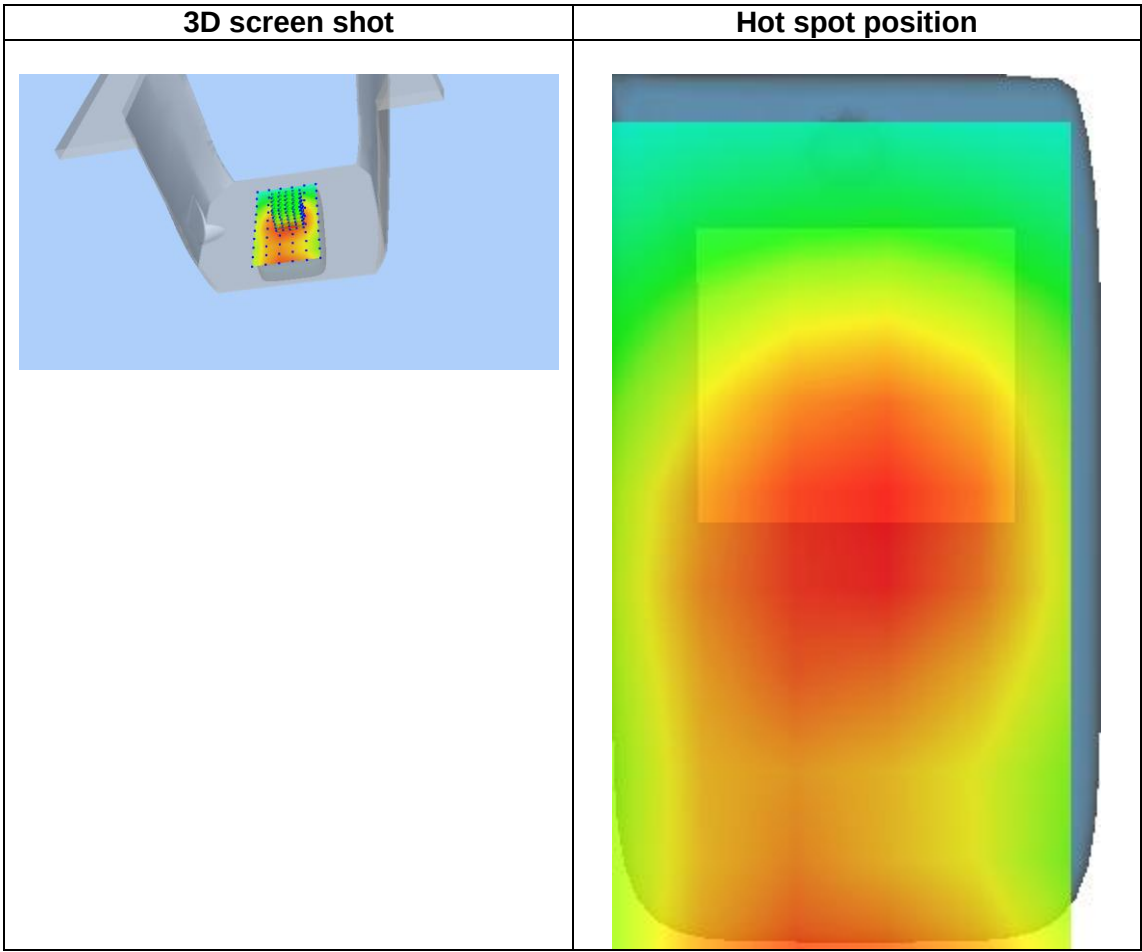
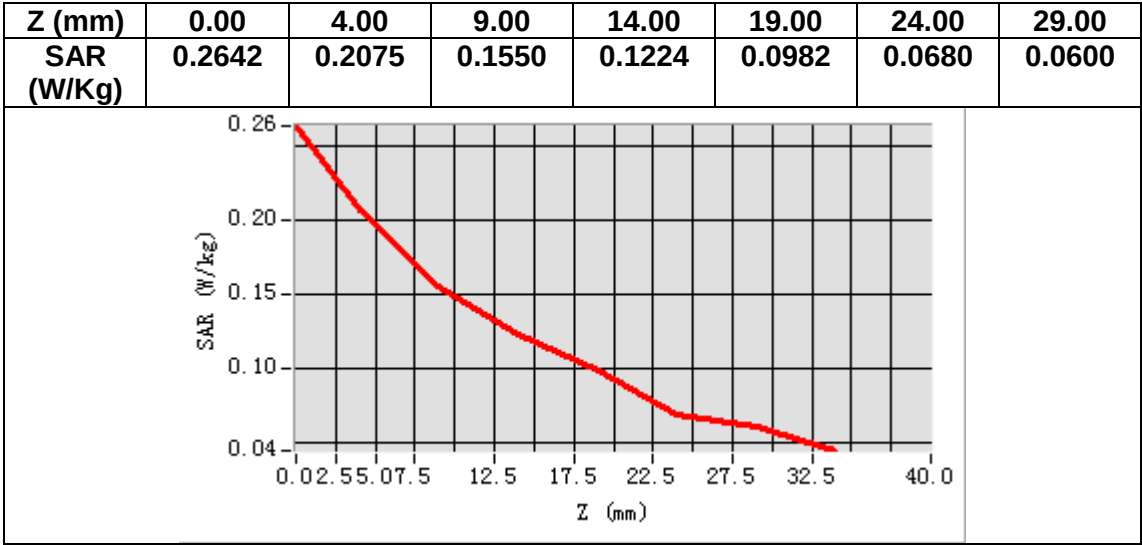
VOLUME SAR



Maximum location: X=2.00, Y=-2.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.149014
SAR 1g (W/Kg)	0.201555



MEASUREMENT 3

Date of measurement: 11/1/2024

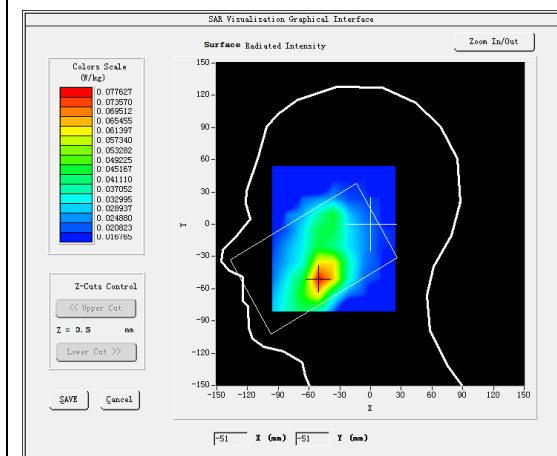
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>2.63</u>

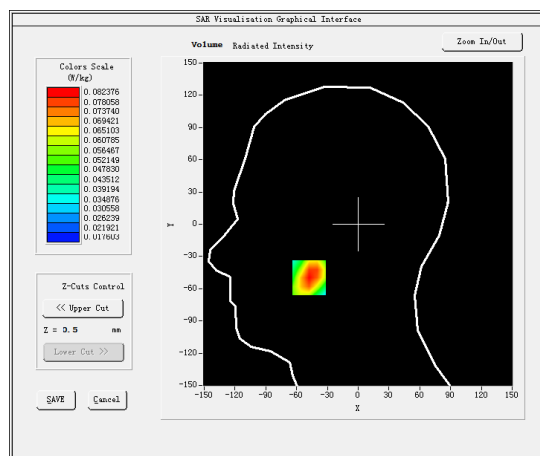
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.207344
Relative permittivity (imaginary part)	13.887850
Conductivity (S/m)	1.450509
Variation (%)	4.450000

SURFACE SAR



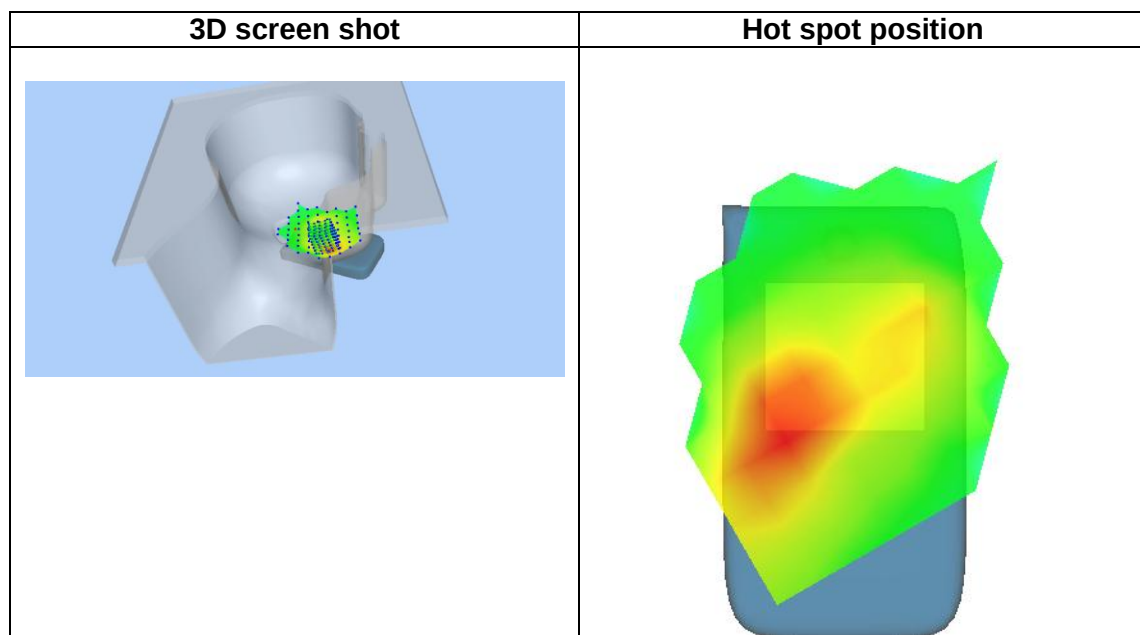
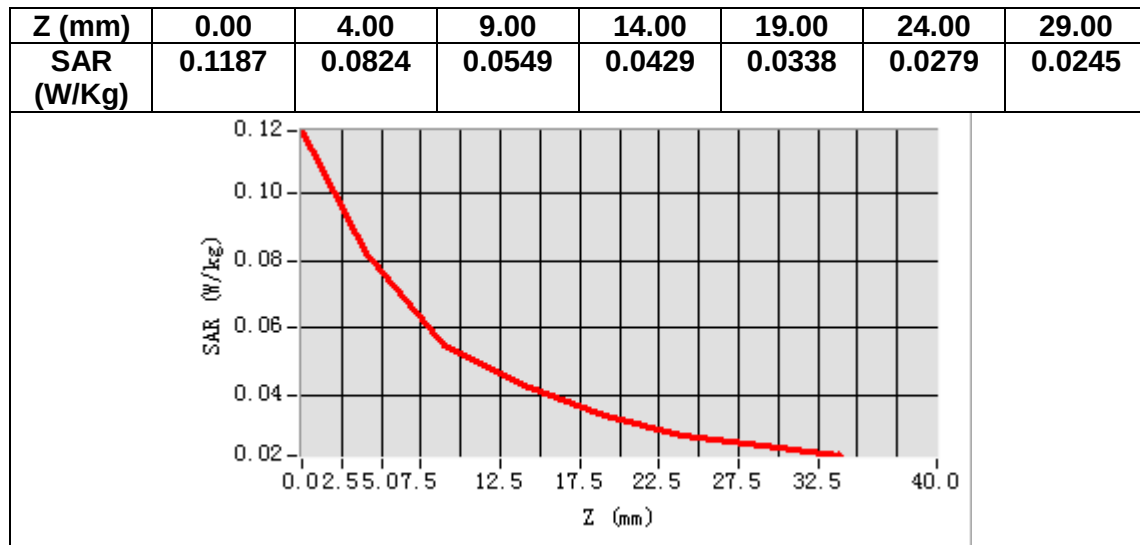
VOLUME SAR



Maximum location: X=-48.00, Y=-50.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.053521
SAR 1g (W/Kg)	0.082162



MEASUREMENT 4

Date of measurement: 11/1/2024

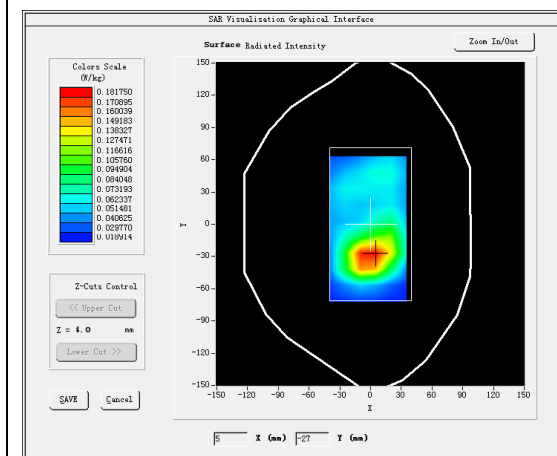
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>2.63</u>

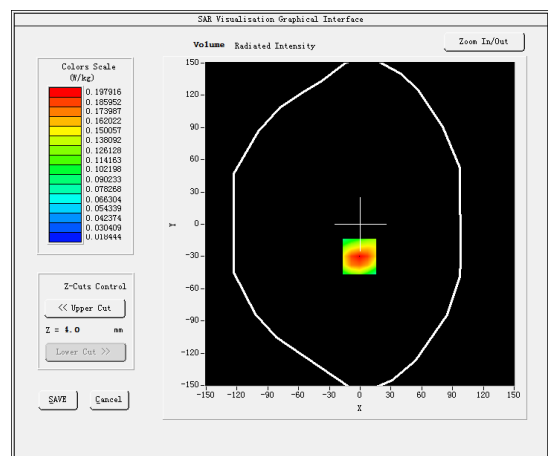
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.207344
Relative permittivity (imaginary part)	13.887850
Conductivity (S/m)	1.450509
Variation (%)	-4.700000

SURFACE SAR



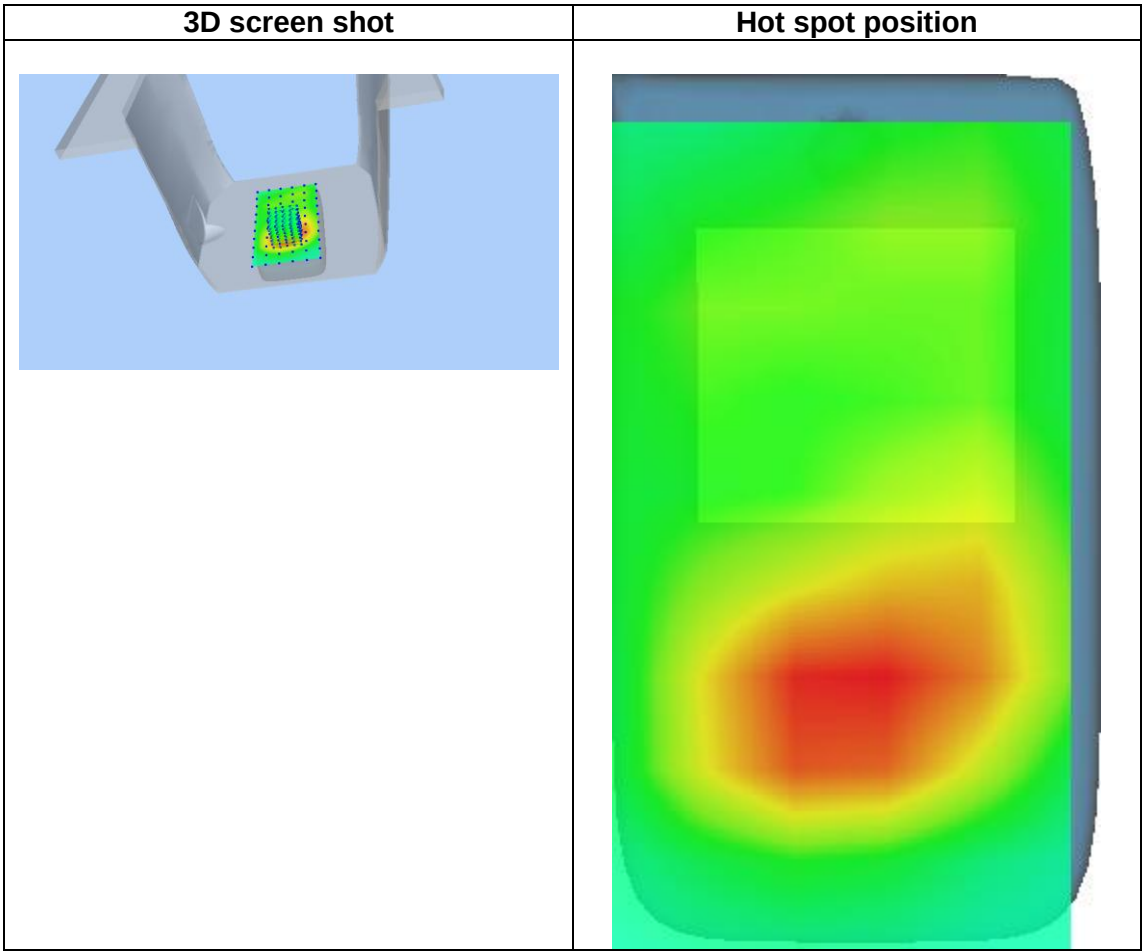
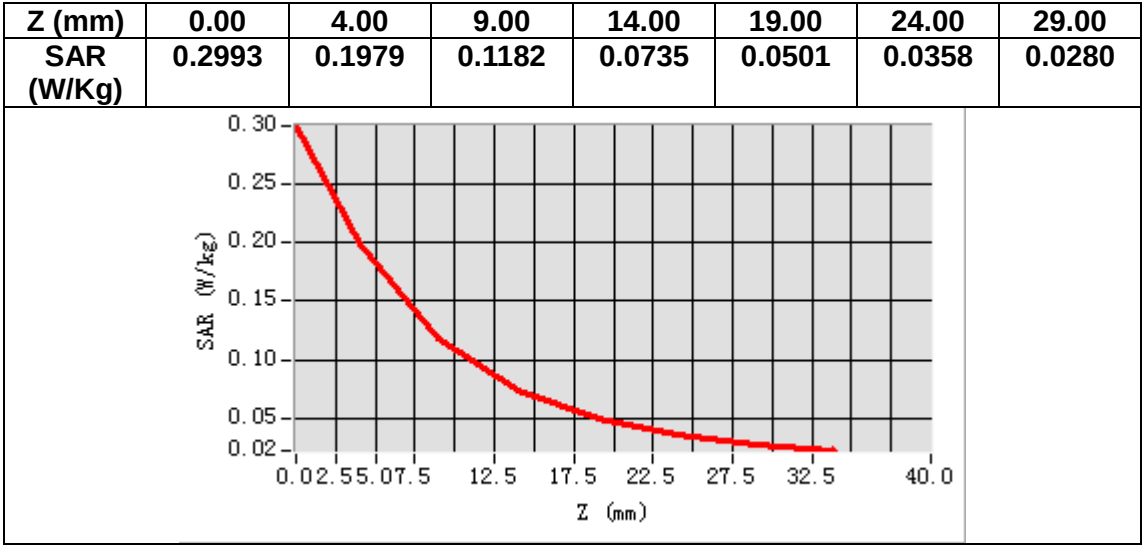
VOLUME SAR



Maximum location: X=-1.00, Y=-30.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.112748
SAR 1g (W/Kg)	0.195071



MEASUREMENT 5

Date of measurement: 11/1/2024

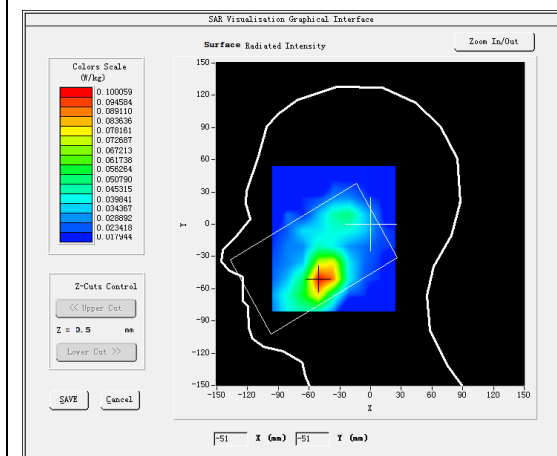
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.63</u>

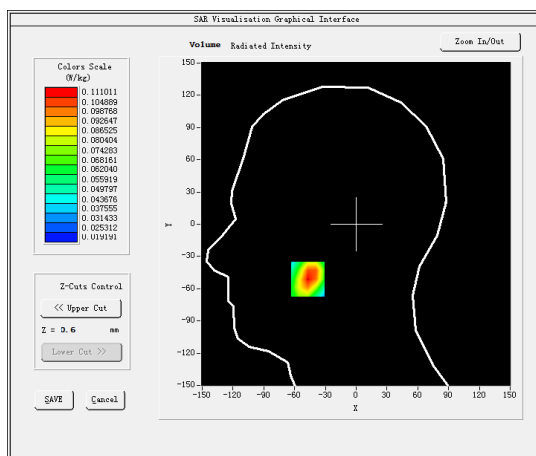
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.207344
Relative permittivity (imaginary part)	13.887850
Conductivity (S/m)	1.450509
Variation (%)	0.930000

SURFACE SAR



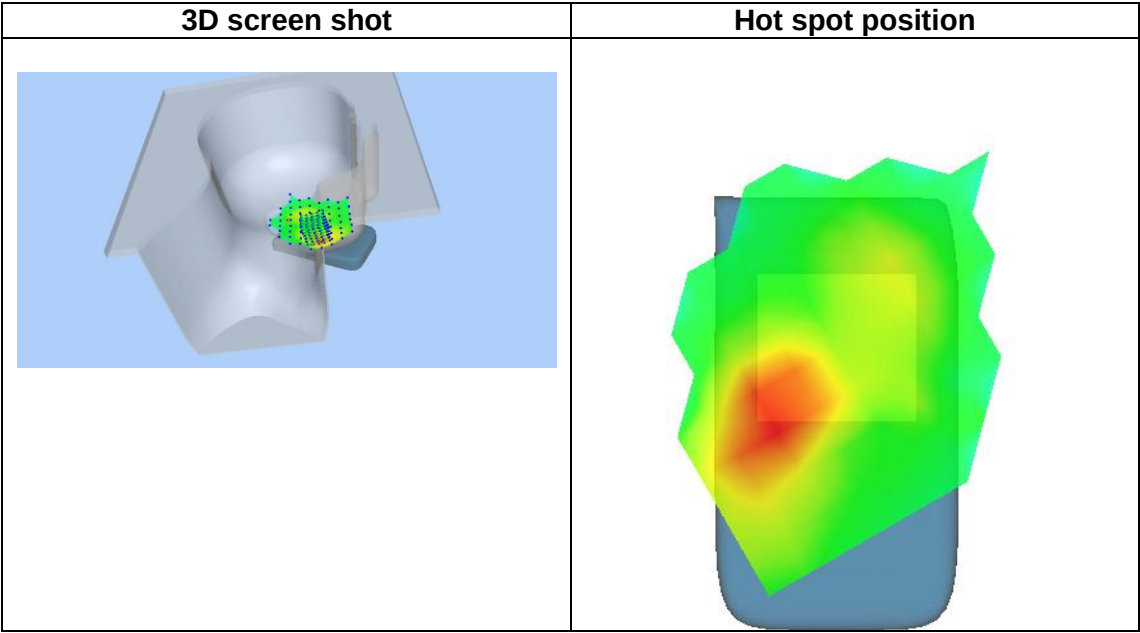
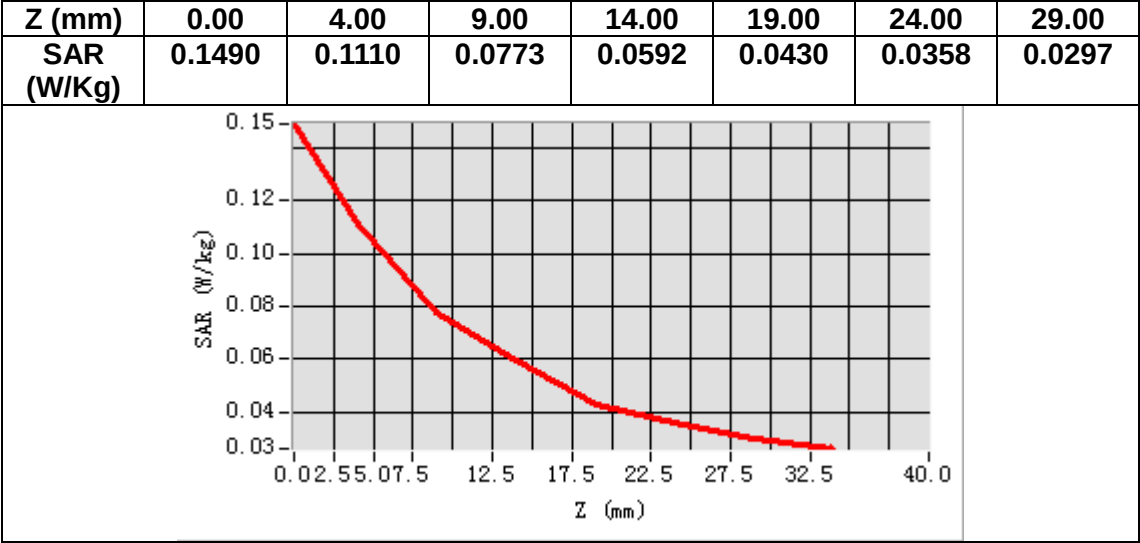
VOLUME SAR



Maximum location: X=-47.00, Y=-51.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.069263
SAR 1g (W/Kg)	0.109588



MEASUREMENT 6

Date of measurement: 11/1/2024

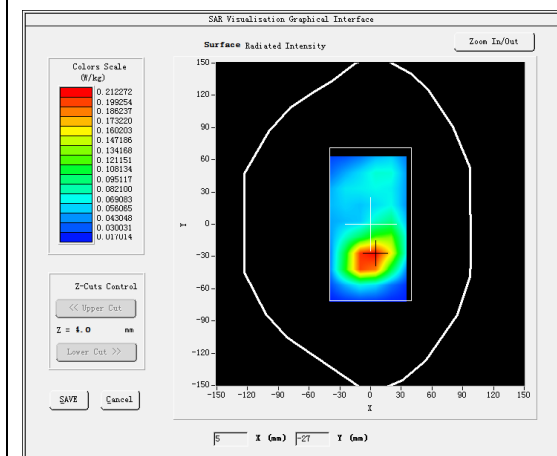
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.63</u>

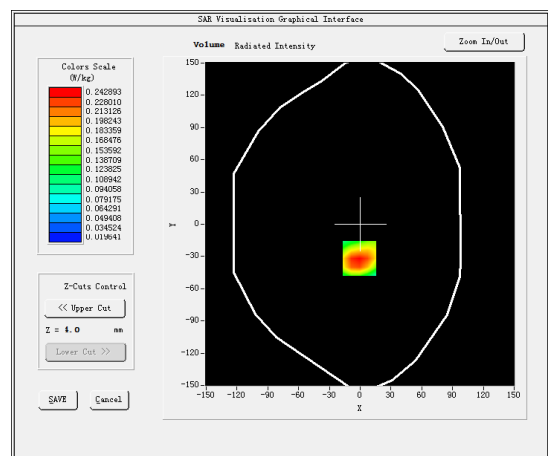
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.207344
Relative permittivity (imaginary part)	13.887850
Conductivity (S/m)	1.450509
Variation (%)	1.470000

SURFACE SAR



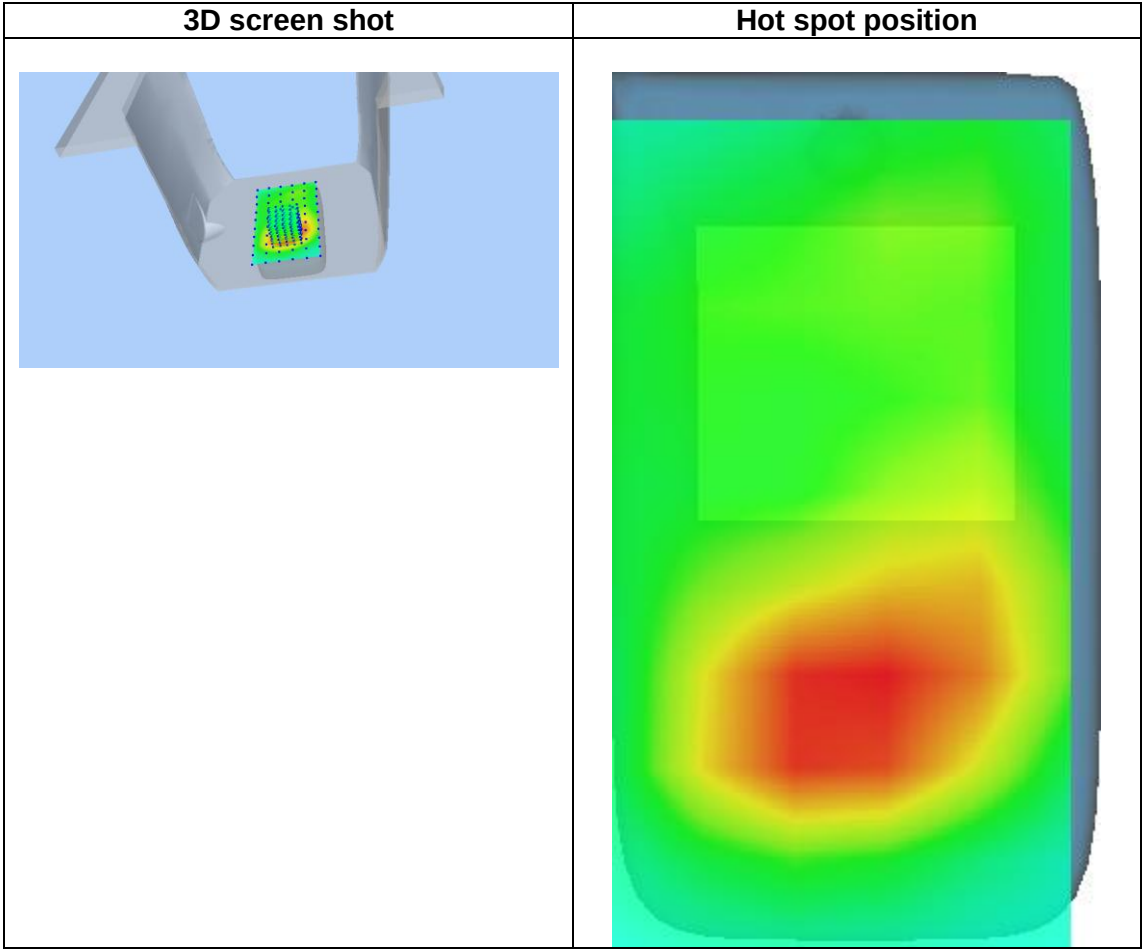
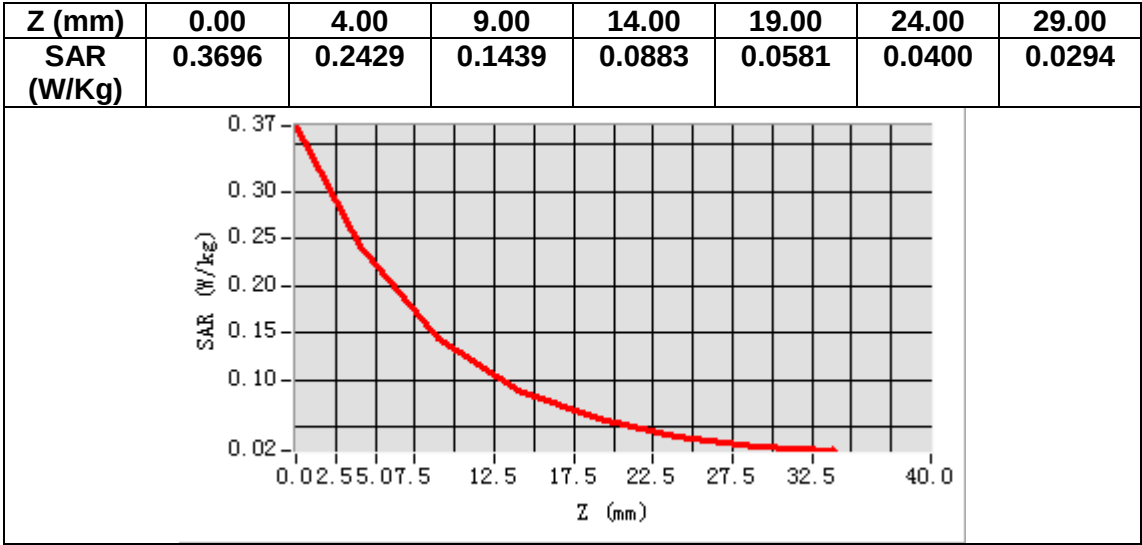
VOLUME SAR



Maximum location: X=-1.00, Y=-32.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.136642
SAR 1g (W/Kg)	0.242617



MEASUREMENT 7

Date of measurement: 8/1/2024

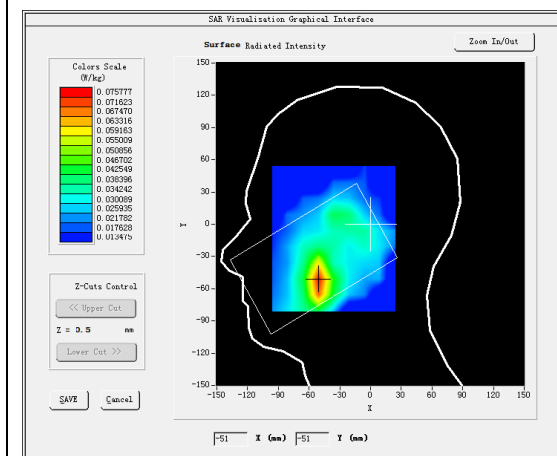
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.45</u>

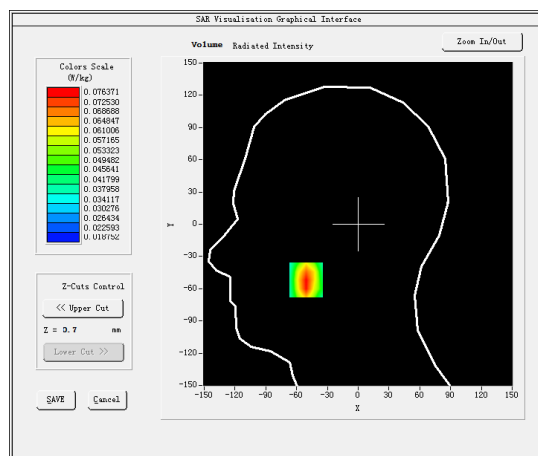
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.995323
Relative permittivity (imaginary part)	13.840805
Conductivity (S/m)	1.331793
Variation (%)	1.360000

SURFACE SAR



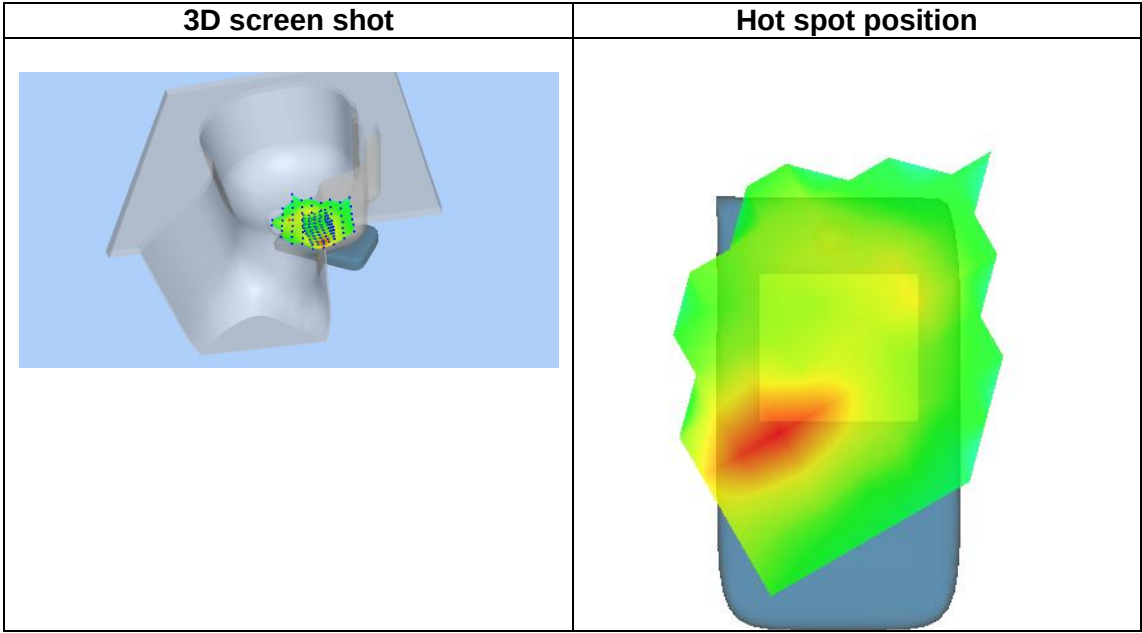
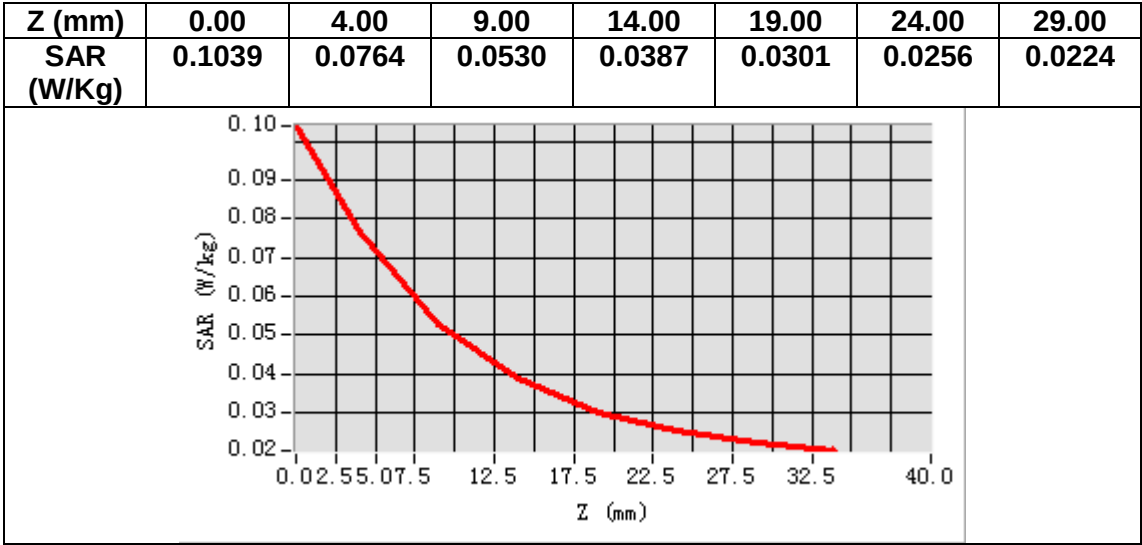
VOLUME SAR



Maximum location: X=-51.00, Y=-52.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.047910
SAR 1g (W/Kg)	0.073469



MEASUREMENT 8

Date of measurement: 8/1/2024

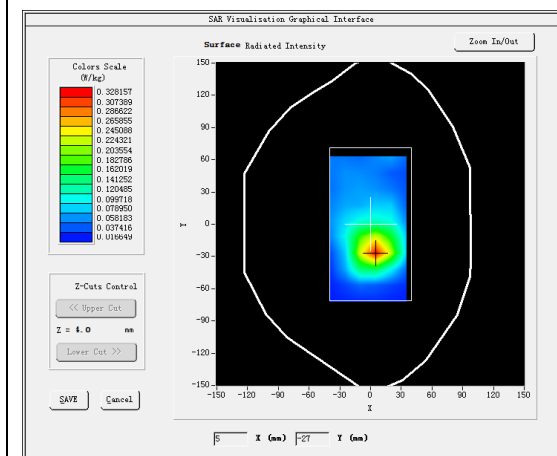
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.45</u>

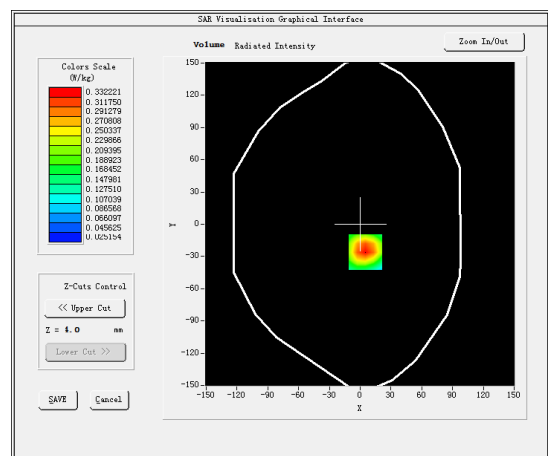
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.995323
Relative permittivity (imaginary part)	13.840805
Conductivity (S/m)	1.331793
Variation (%)	2.330000

SURFACE SAR



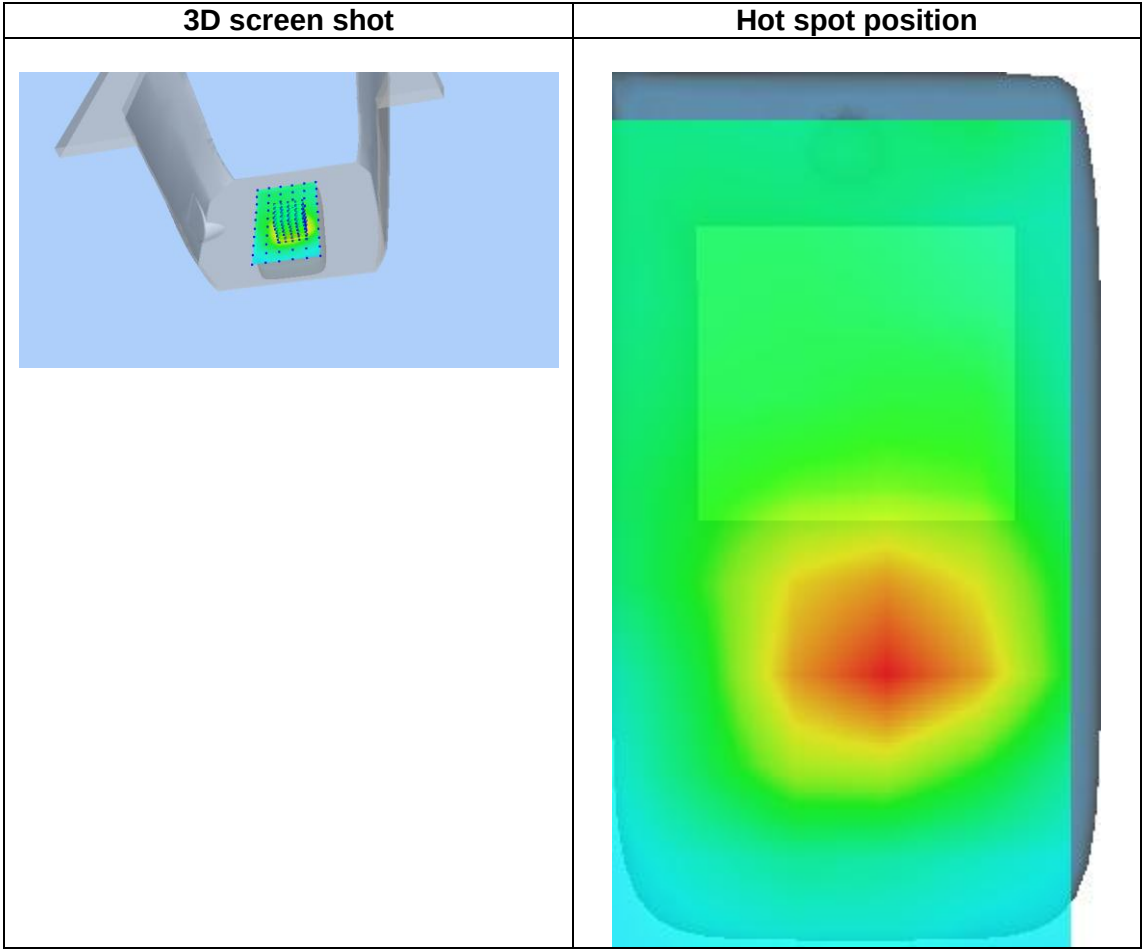
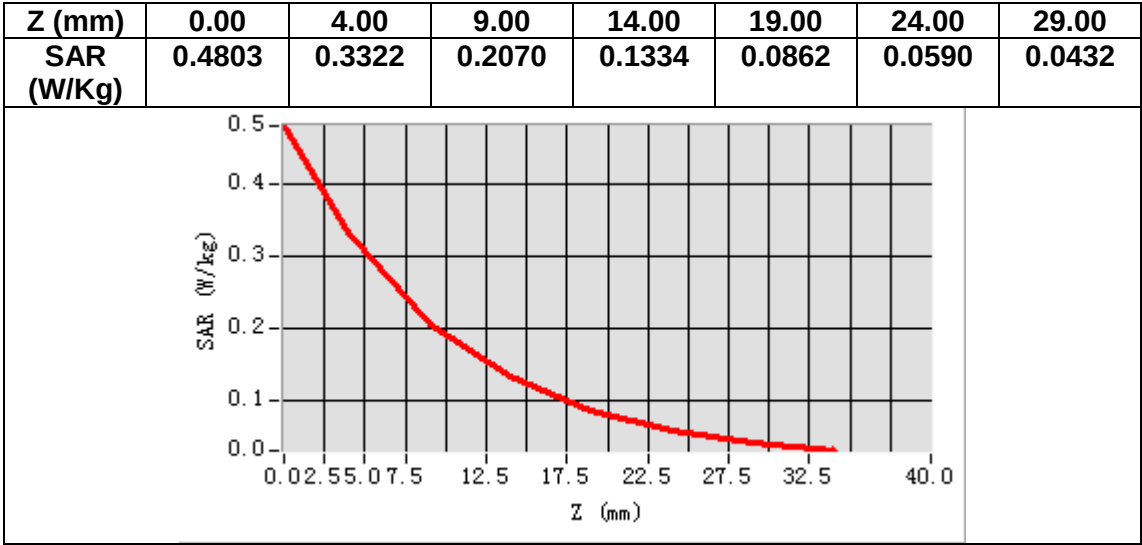
VOLUME SAR



Maximum location: X=5.00, Y=-26.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.184385
SAR 1g (W/Kg)	0.316782



MEASUREMENT 9

Date of measurement: 10/1/2024

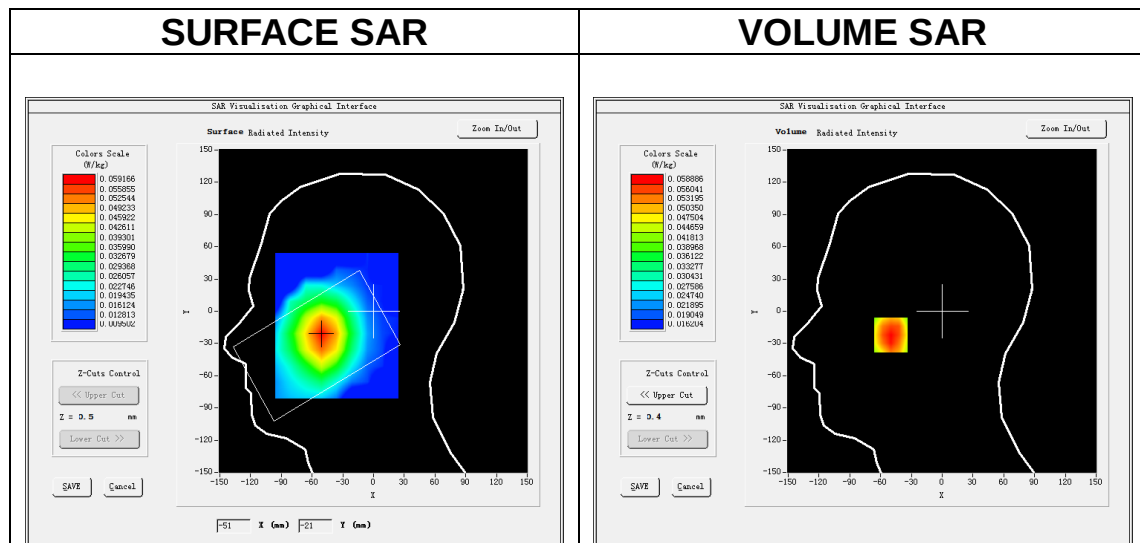
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.267719
Relative permittivity (imaginary part)	19.206280
Conductivity (S/m)	0.892452
Variation (%)	0.230000

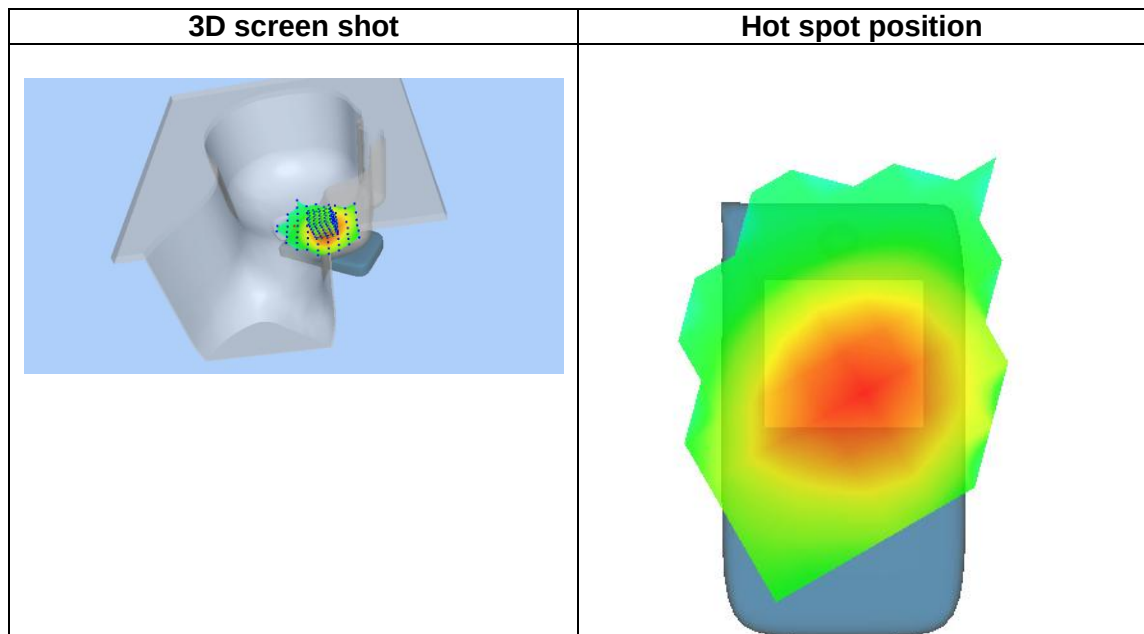
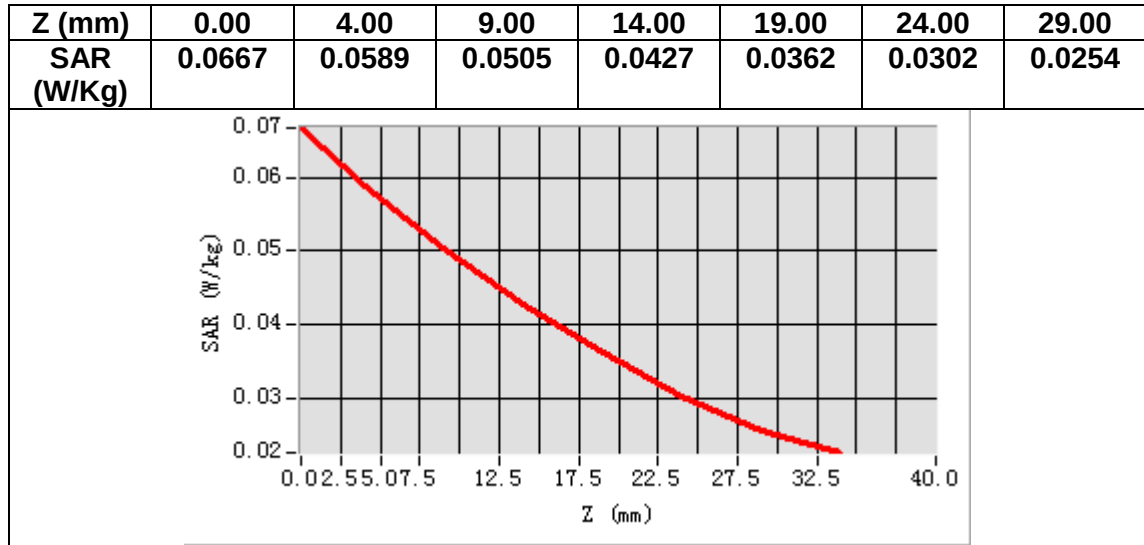
SURFACE SAR



Maximum location: X=-50.00, Y=-22.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.045600
SAR 1g (W/Kg)	0.057151



MEASUREMENT 10

Date of measurement: 10/1/2024

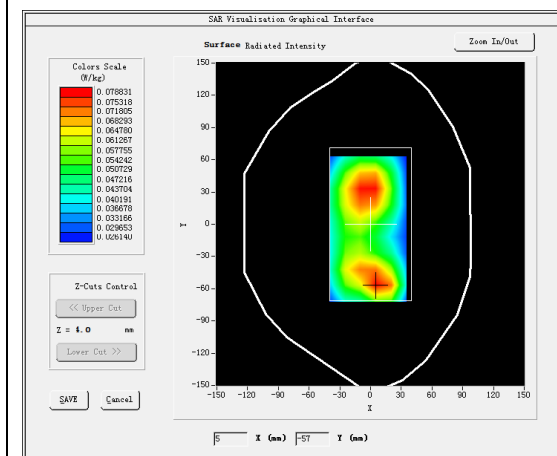
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

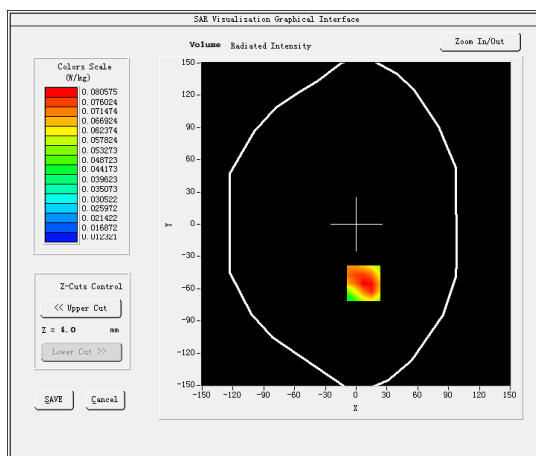
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.267719
Relative permittivity (imaginary part)	19.206280
Conductivity (S/m)	0.892452
Variation (%)	-1.520000

SURFACE SAR



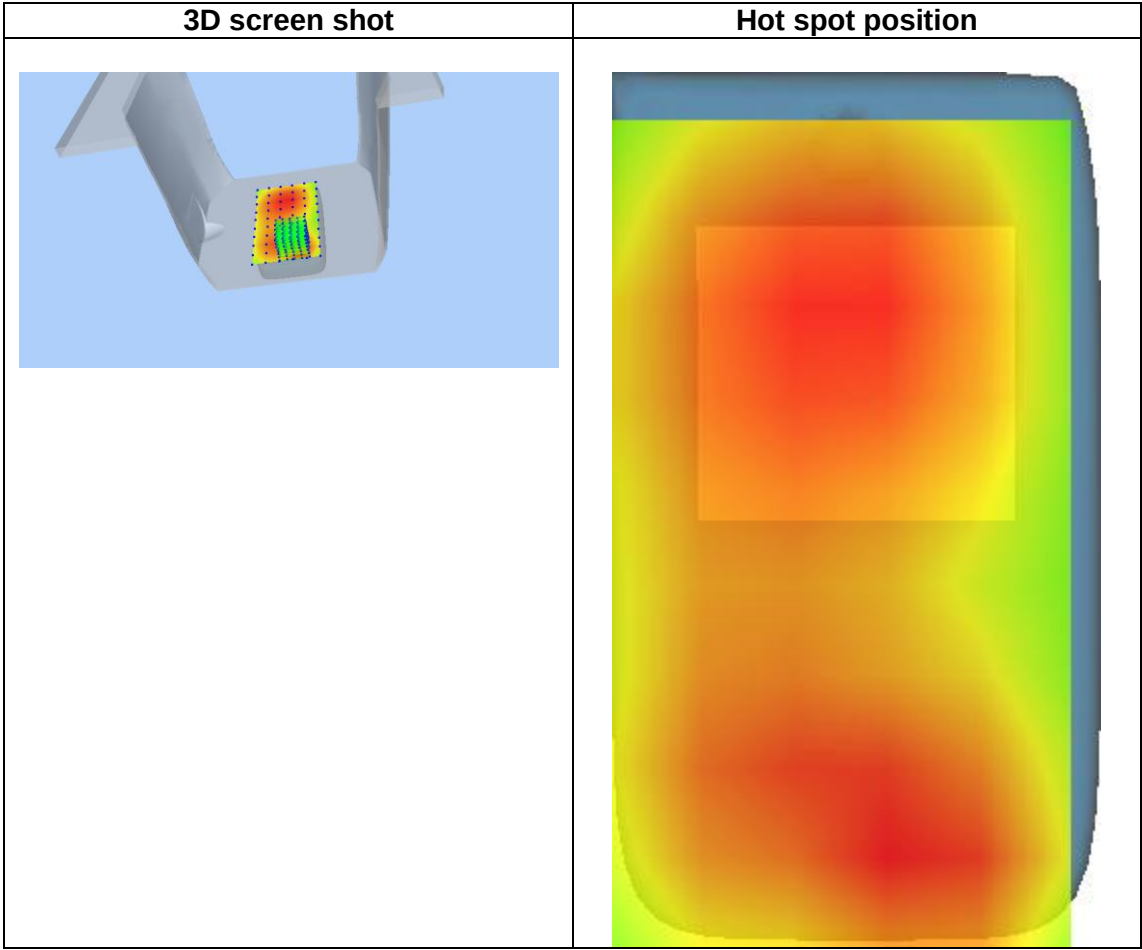
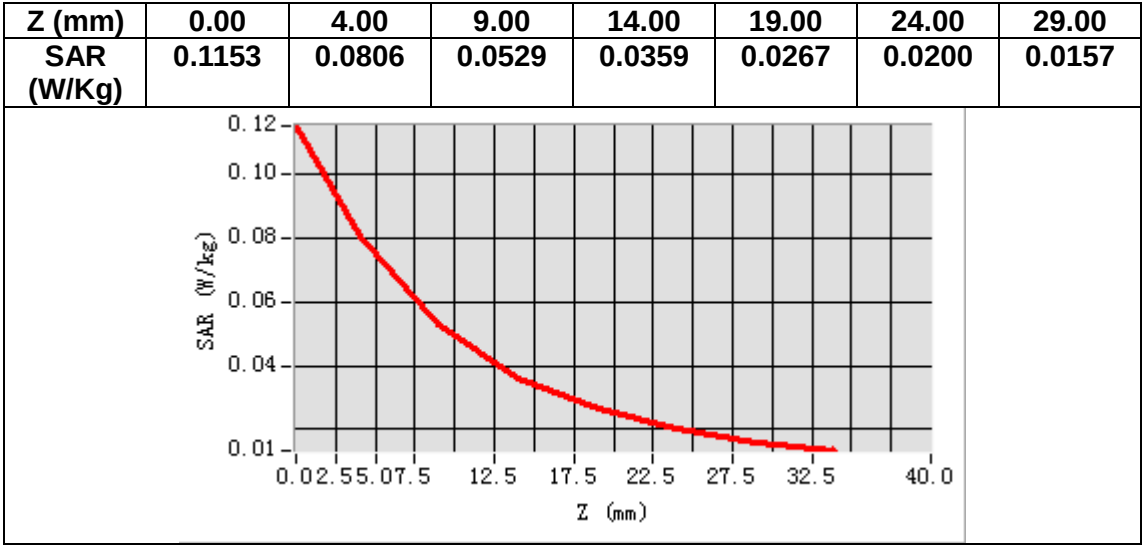
VOLUME SAR



Maximum location: X=7.00, Y=-55.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.050848
SAR 1g (W/Kg)	0.079064



MEASUREMENT 11

Date of measurement: 2/1/2024

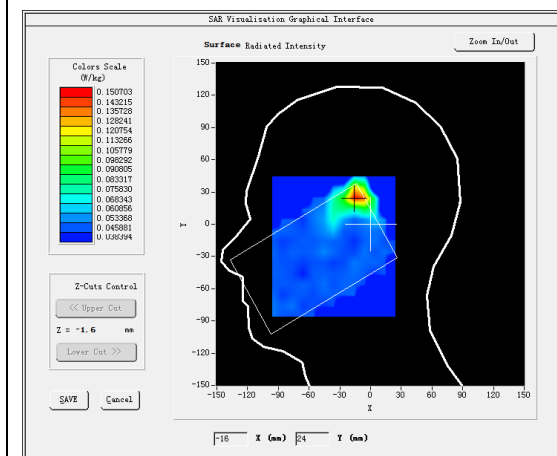
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.07</u>

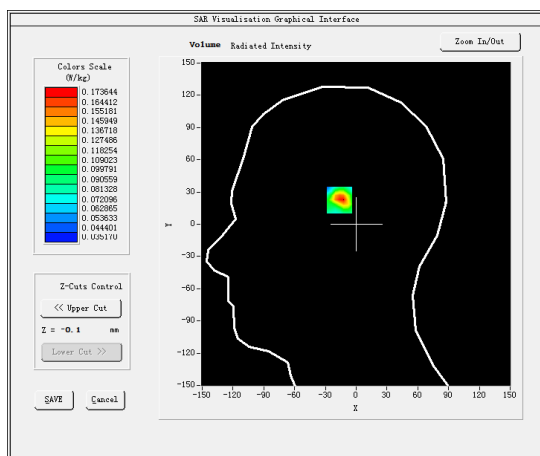
B. SAR Measurement Results

Frequency (MHz)	5240.000000
Relative permittivity (real part)	35.061466
Relative permittivity (imaginary part)	15.609897
Conductivity (S/m)	4.544214
Variation (%)	-0.930000

SURFACE SAR



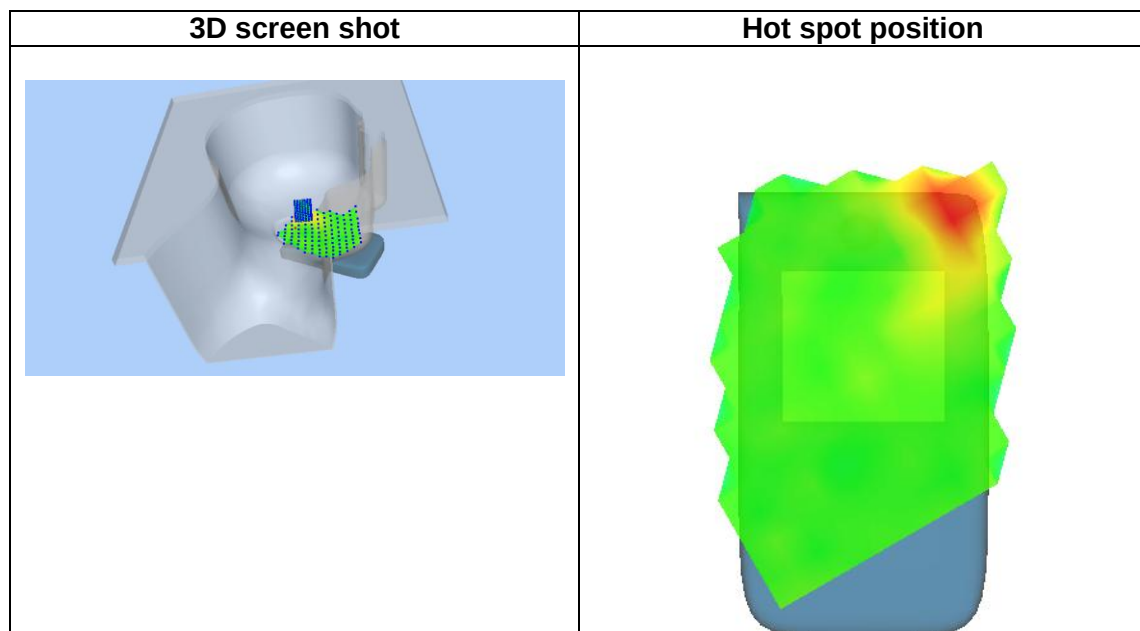
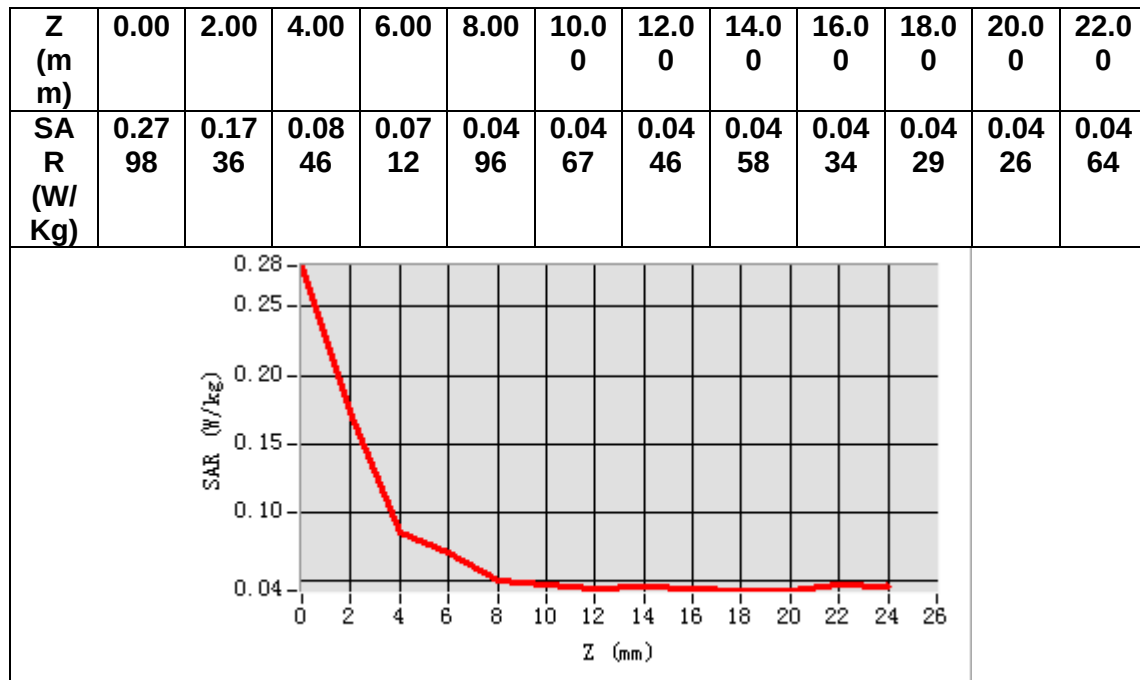
VOLUME SAR



Maximum location: X=-14.00, Y=26.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.083638
SAR 1g (W/Kg)	0.169629



MEASUREMENT 12

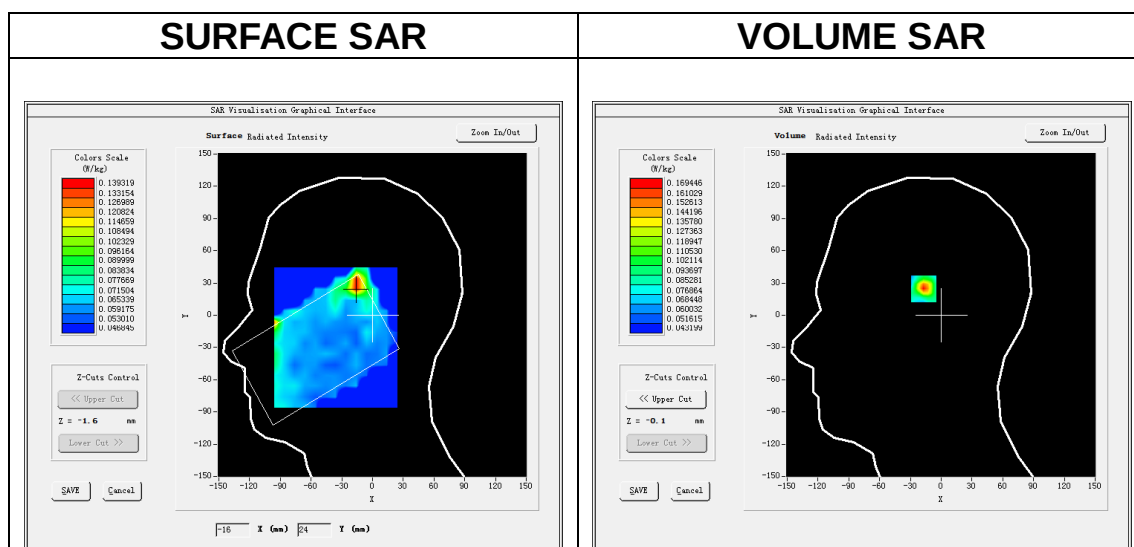
Date of measurement: 15/1/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.04</u>

B. SAR Measurement Results

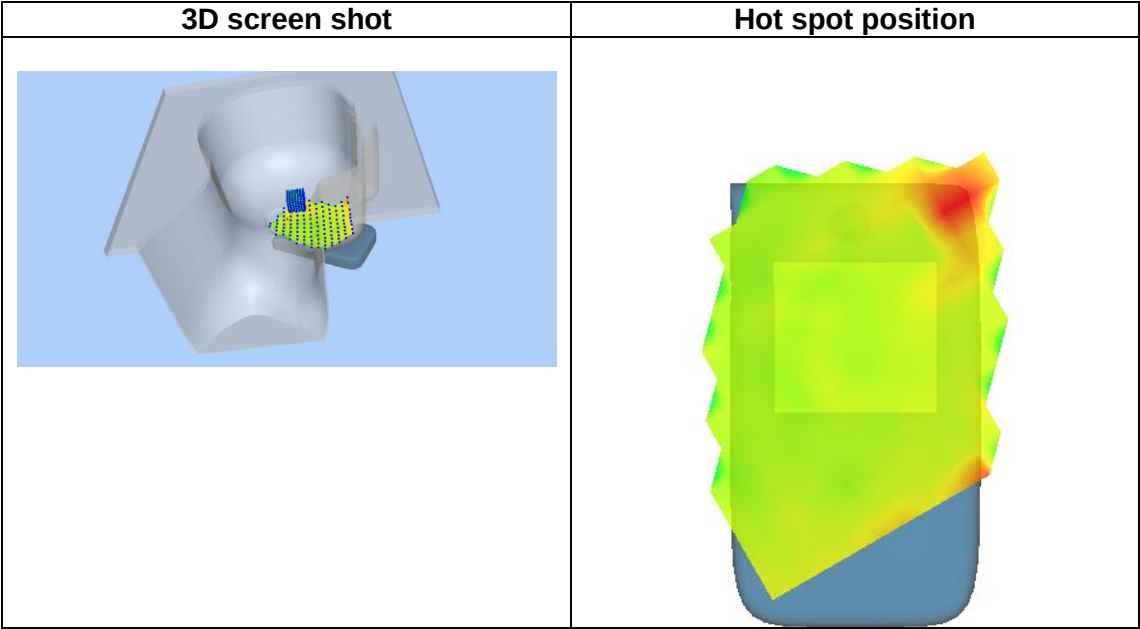
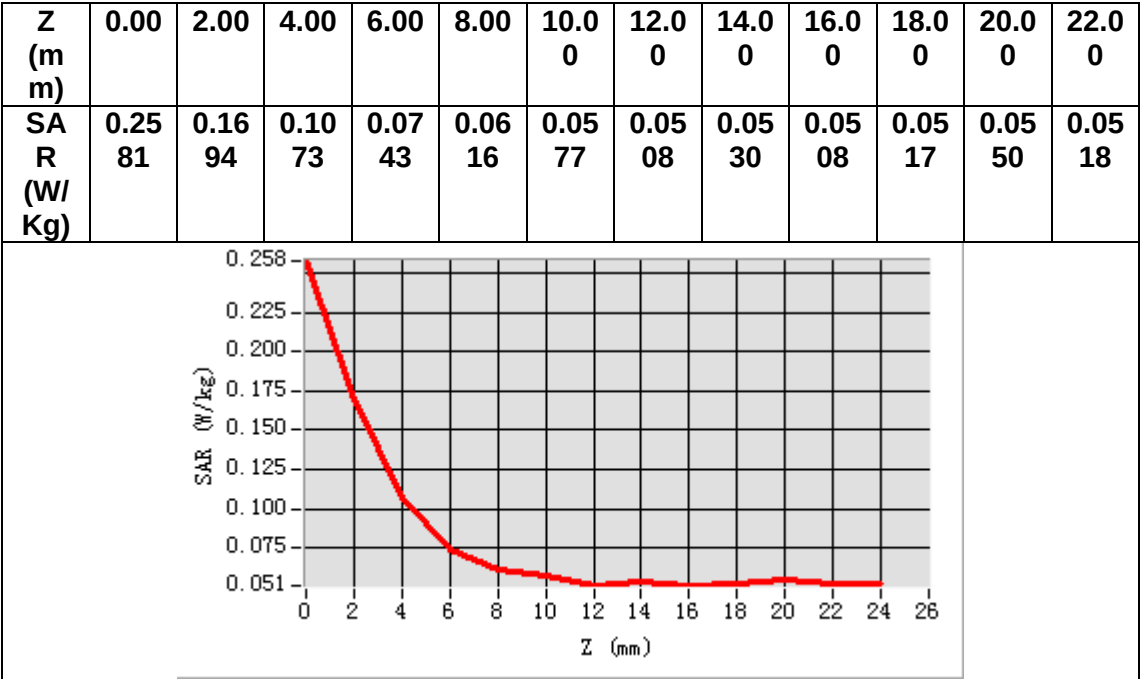
Frequency (MHz)	5825.000000
Relative permittivity (real part)	34.581051
Relative permittivity (imaginary part)	16.103672
Conductivity (S/m)	5.211327
Variation (%)	-3.719999



Maximum location: X=-16.00, Y=28.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.083163
SAR 1g (W/Kg)	0.159665



MEASUREMENT 13

Date of measurement: 15/1/2024

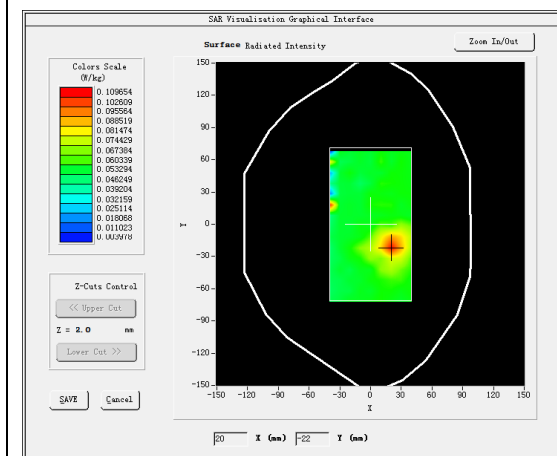
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.07</u>

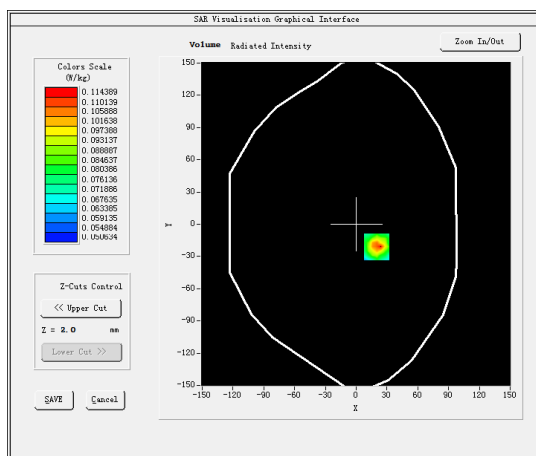
B. SAR Measurement Results

Frequency (MHz)	5825.000000
Relative permittivity (real part)	34.581051
Relative permittivity (imaginary part)	16.103672
Conductivity (S/m)	5.211327
Variation (%)	2.580000

SURFACE SAR



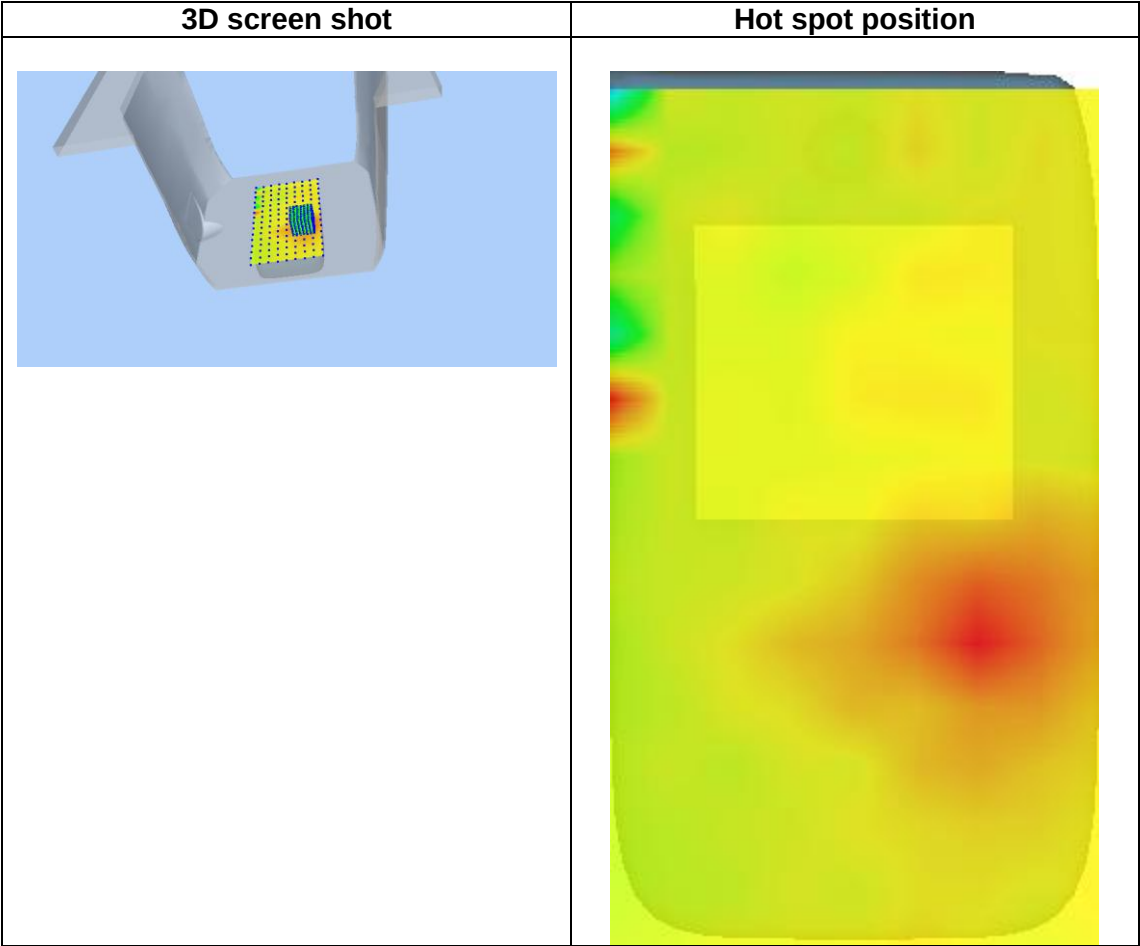
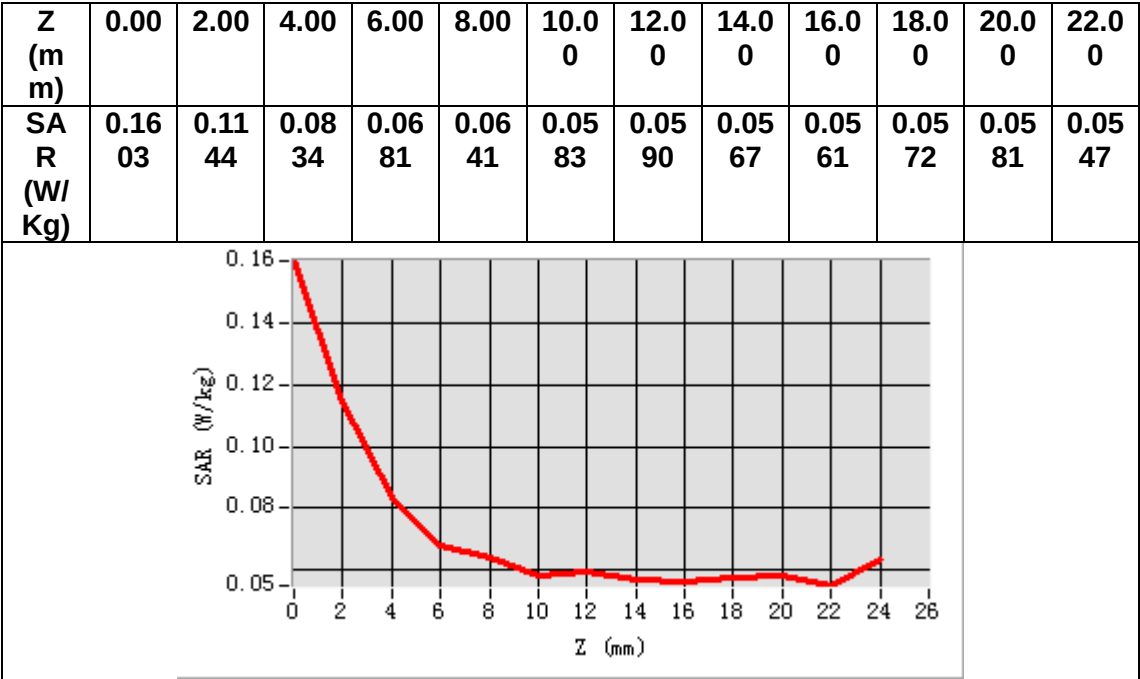
VOLUME SAR



Maximum location: X=20.00, Y=-21.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.067171
SAR 1g (W/Kg)	0.085560



MEASUREMENT 14

Date of measurement: 2/1/2024

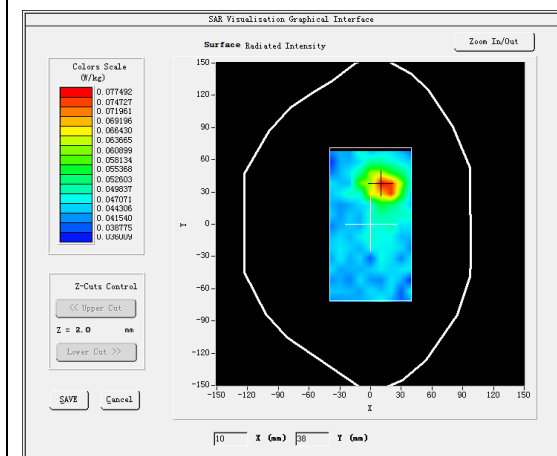
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>IEEE802.a (Crest factor: 1.0)</u>
<u>ConvF</u>	

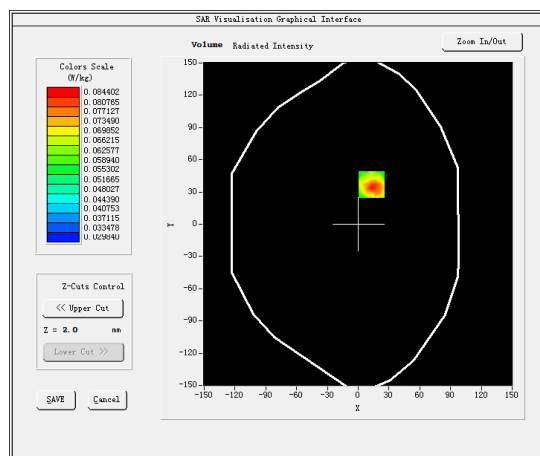
B. SAR Measurement Results

Frequency (MHz)	5240.000000
Relative permittivity (real part)	35.061466
Relative permittivity (imaginary part)	15.609897
Conductivity (S/m)	4.544214
Variation (%)	1.680000

SURFACE SAR



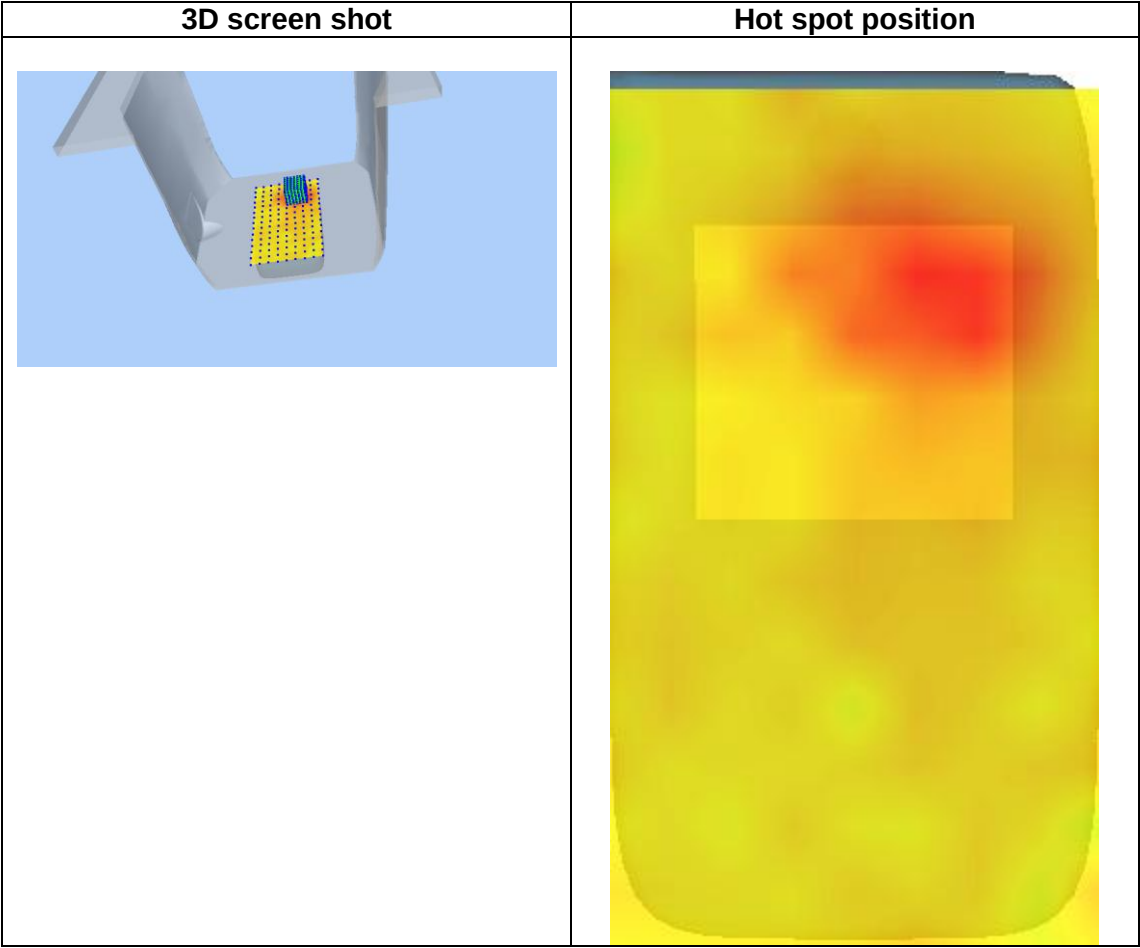
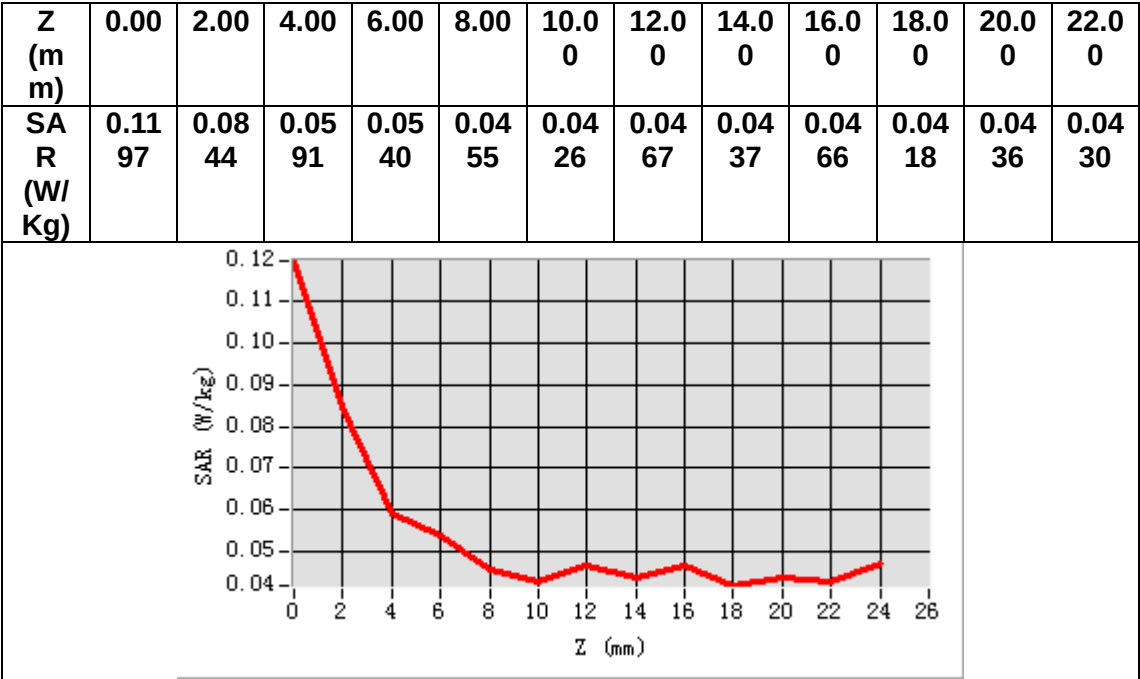
VOLUME SAR



Maximum location: X=13.00, Y=37.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.052113
SAR 1g (W/Kg)	0.065933



MEASUREMENT 15

Date of measurement: 9/1/2024

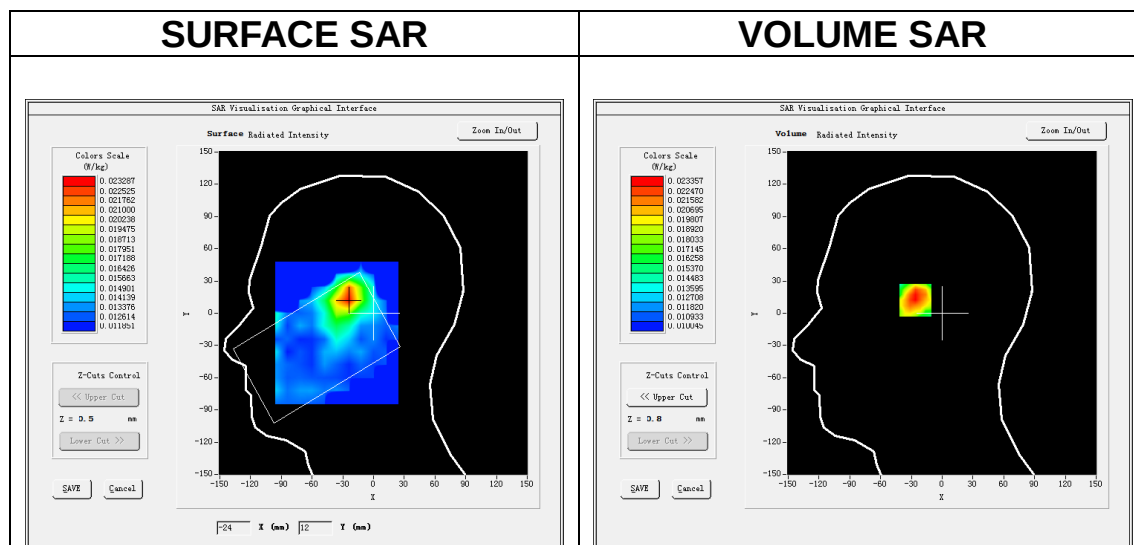
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.85</u>

B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative permittivity (real part)	38.261419
Relative permittivity (imaginary part)	12.949894
Conductivity (S/m)	1.735286
Variation (%)	2.260000

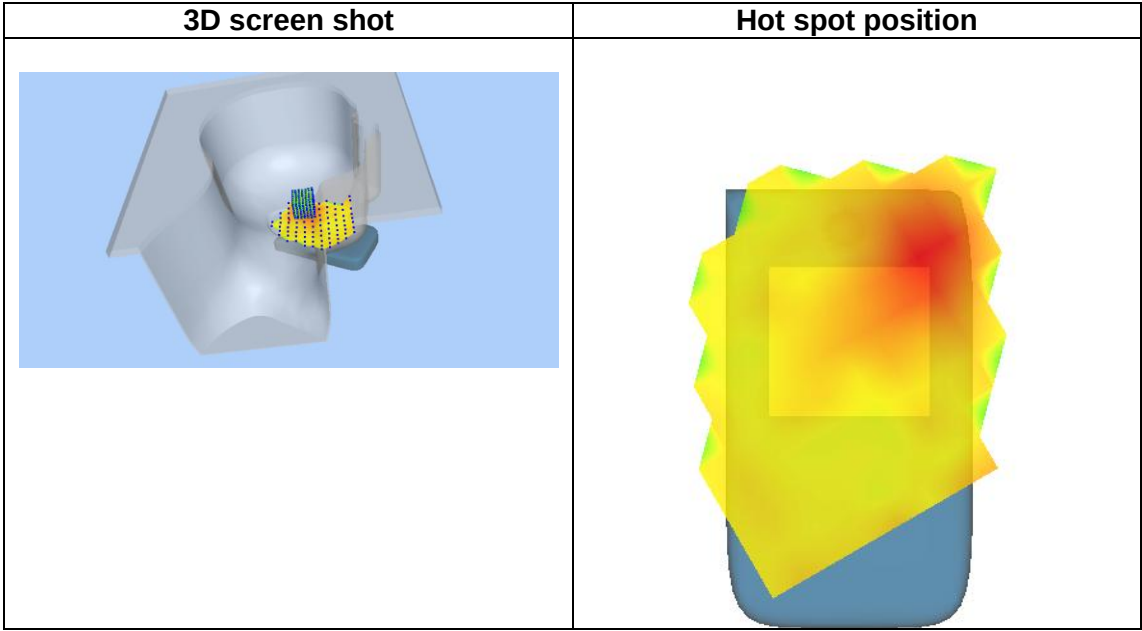
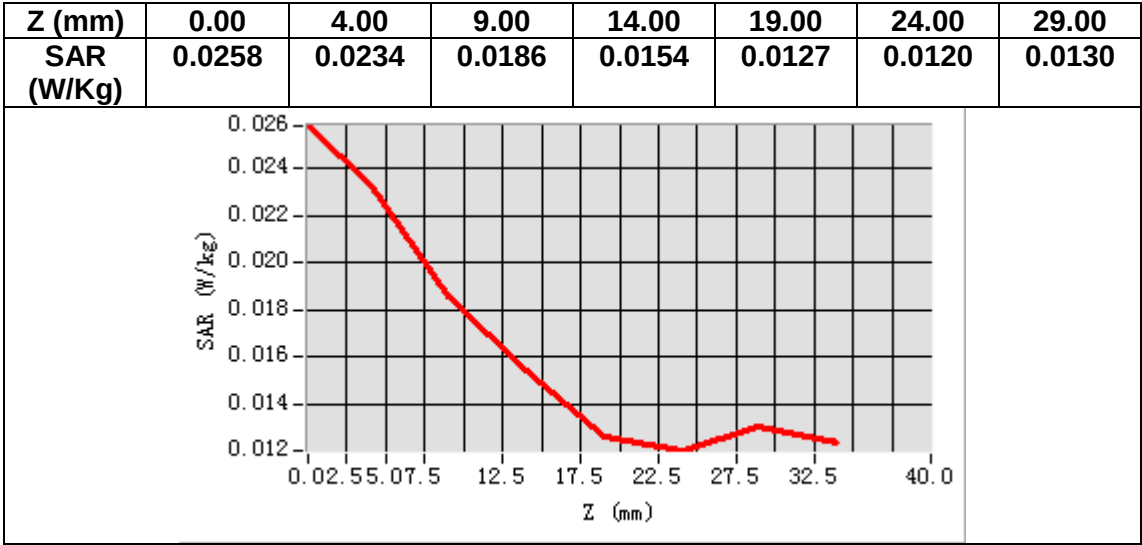
SURFACE SAR



Maximum location: X=-25.00, Y=14.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.017174
SAR 1g (W/Kg)	0.022274



MEASUREMENT 16

Date of measurement: 9/1/2024

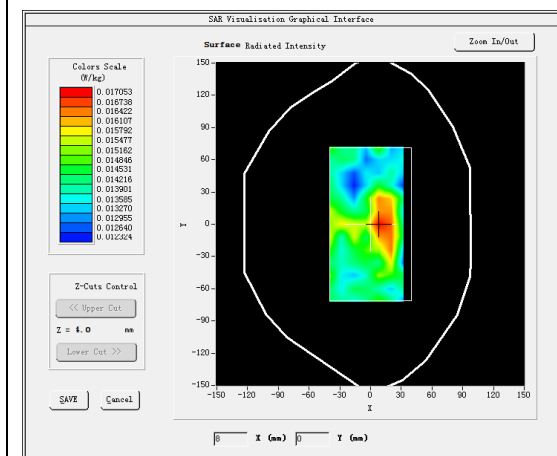
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.85</u>

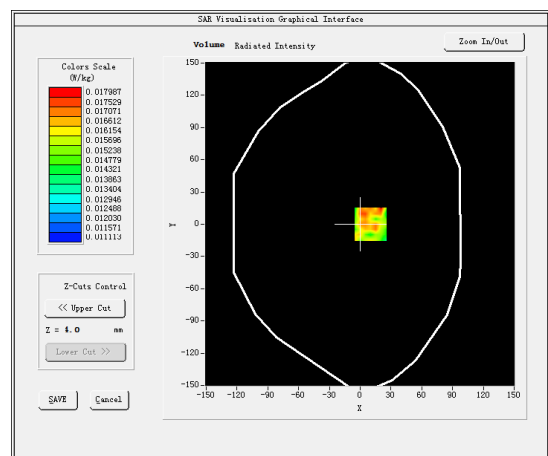
B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative permittivity (real part)	38.261419
Relative permittivity (imaginary part)	12.949894
Conductivity (S/m)	1.735286
Variation (%)	-1.950000

SURFACE SAR



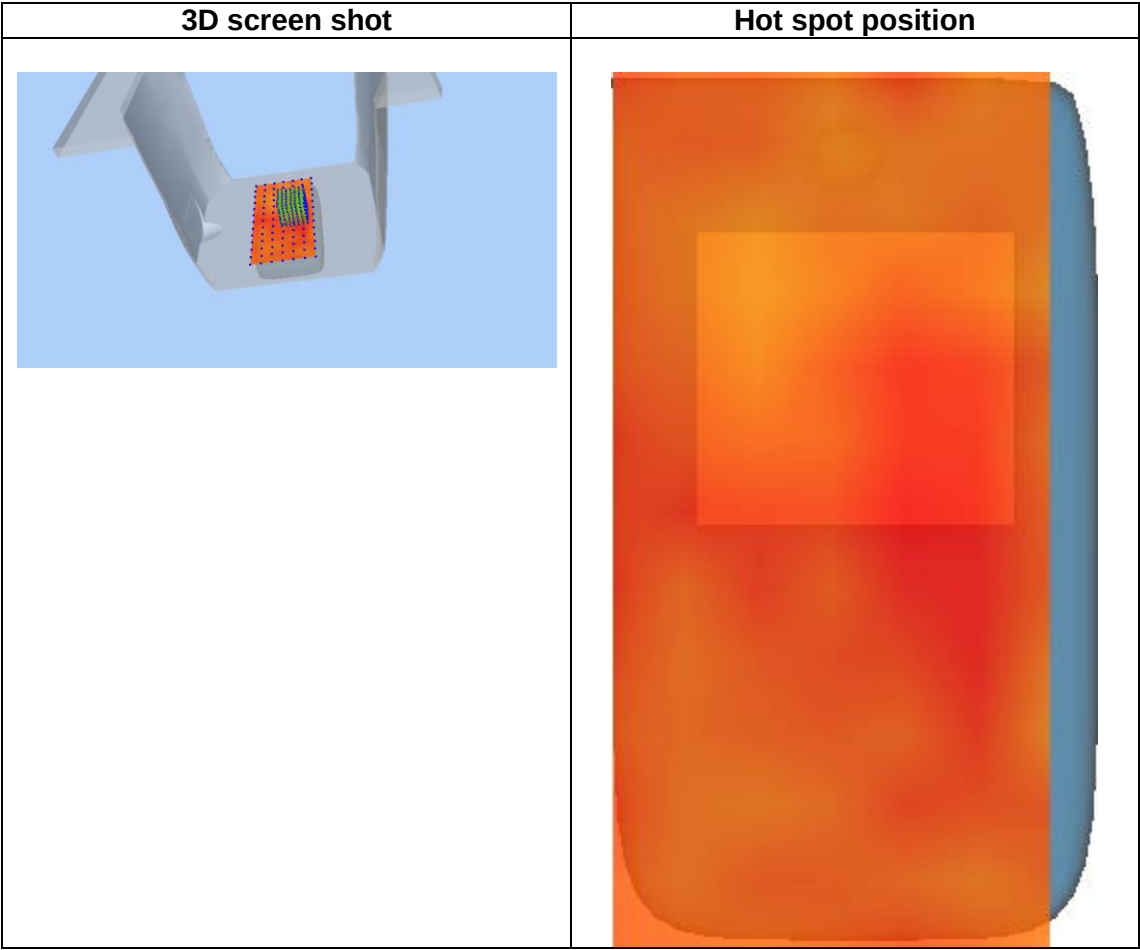
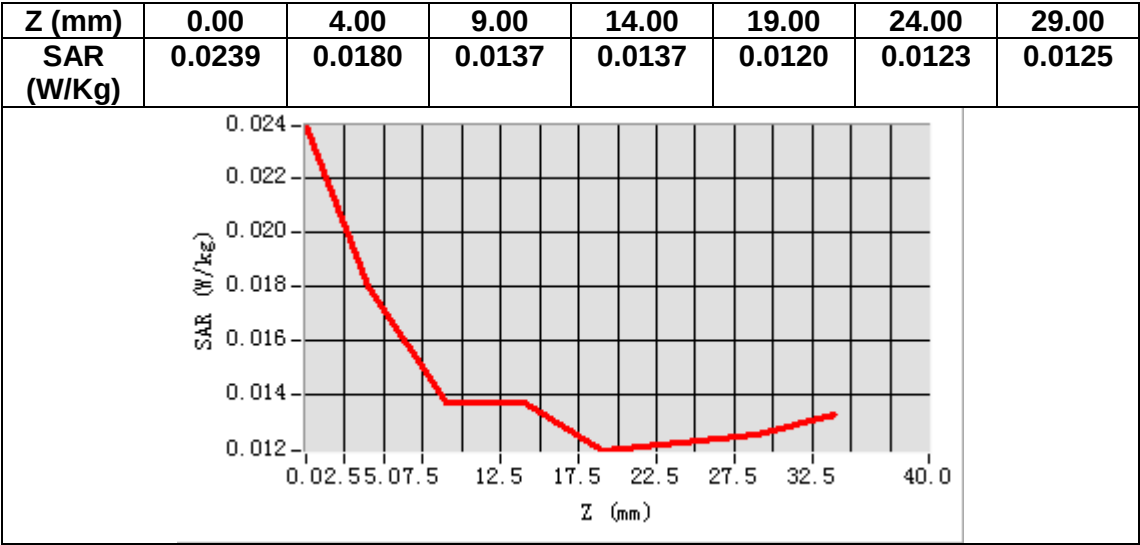
VOLUME SAR



Maximum location: X=10.00, Y=0.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.014434
SAR 1g (W/Kg)	0.016928



MEASUREMENT 17

Date of measurement: 11/1/2024

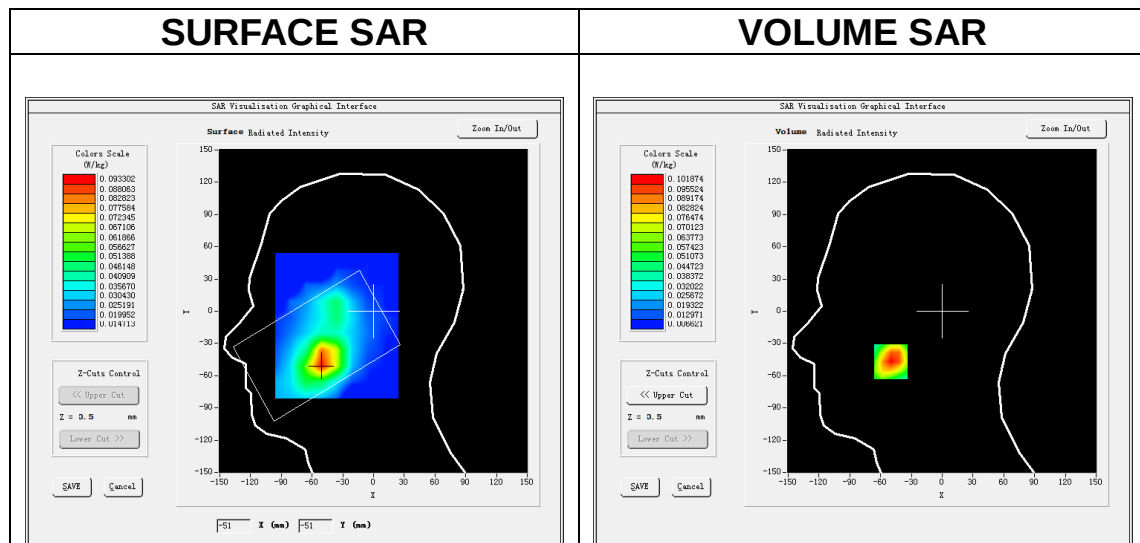
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.63</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.213894
Relative permittivity (imaginary part)	13.872800
Conductivity (S/m)	1.448552
Variation (%)	2.670000

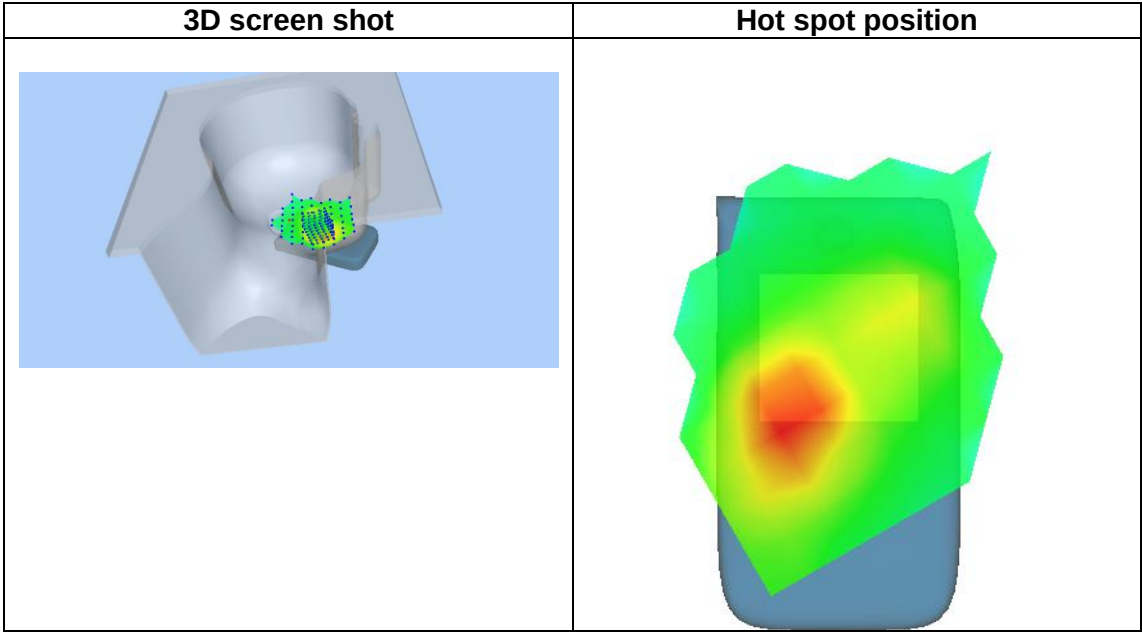
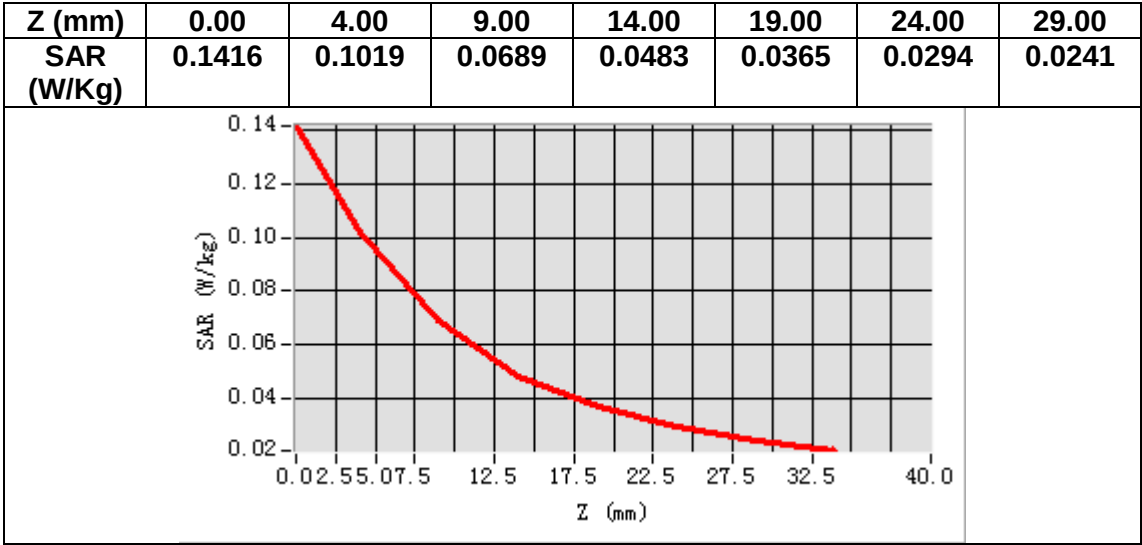
SURFACE SAR



Maximum location: X=-50.00, Y=-47.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.061903
SAR 1g (W/Kg)	0.100173



MEASUREMENT 18

Date of measurement: 11/1/2024

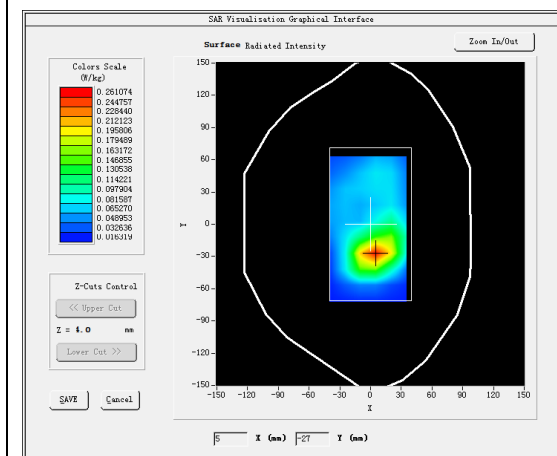
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.63</u>

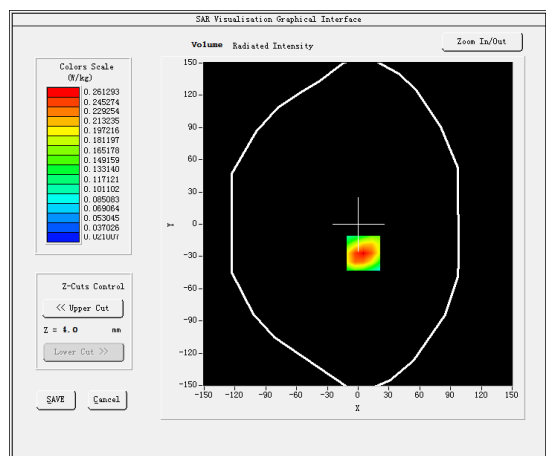
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.213894
Relative permittivity (imaginary part)	13.872800
Conductivity (S/m)	1.448552
Variation (%)	0.160000

SURFACE SAR



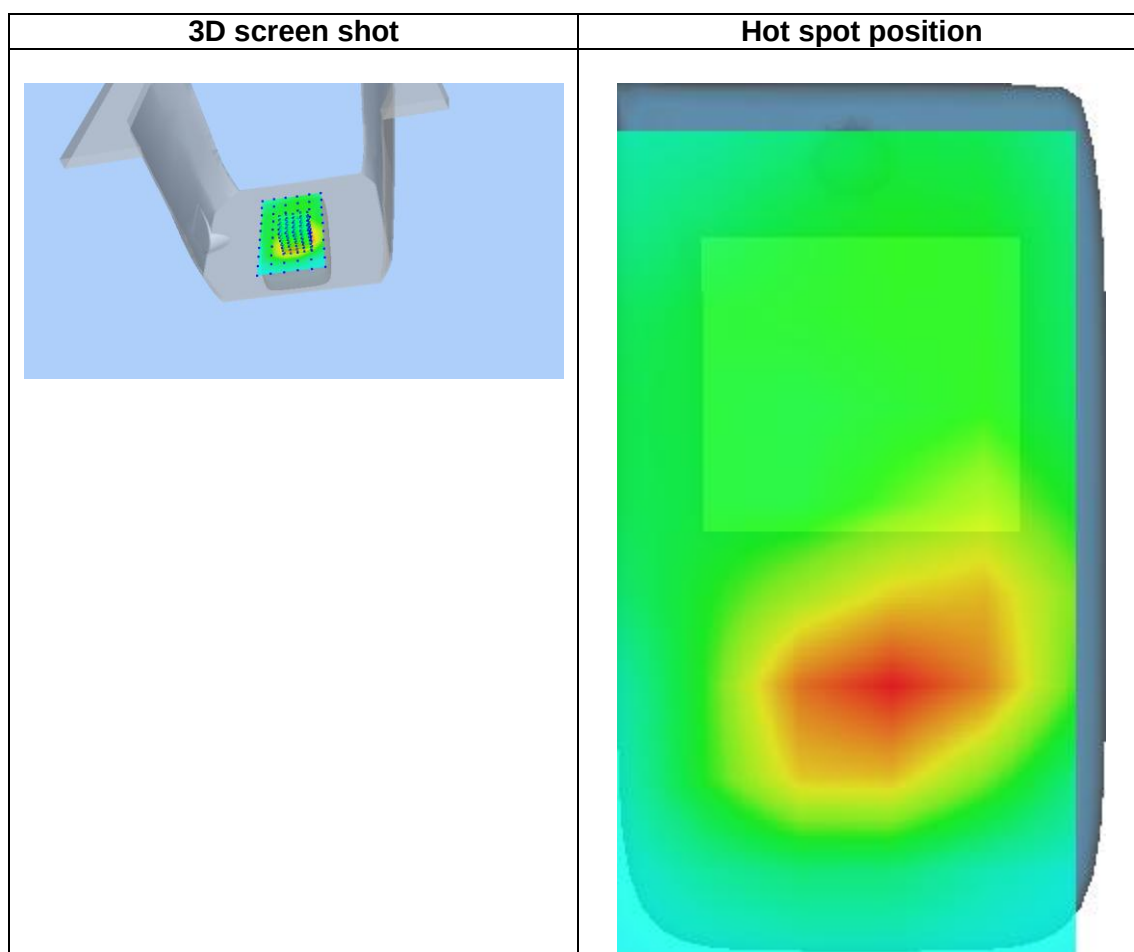
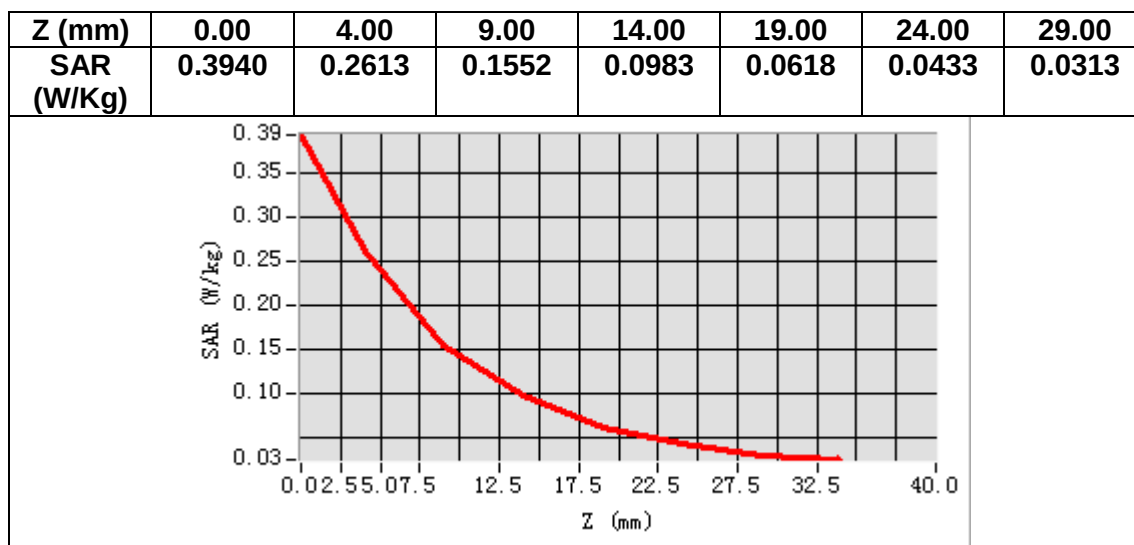
VOLUME SAR



Maximum location: X=5.00, Y=-27.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.144618
SAR 1g (W/Kg)	0.256651



MEASUREMENT 19

Date of measurement: 8/1/2024

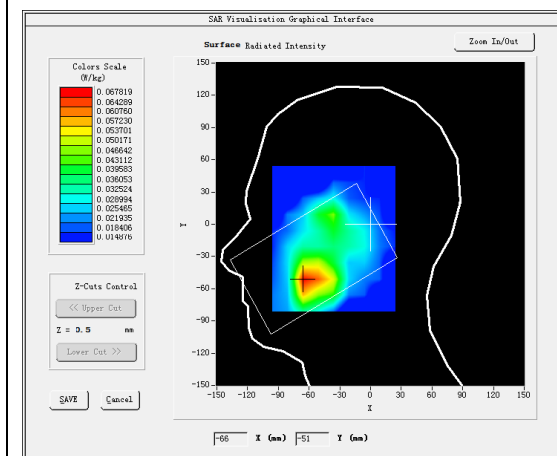
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.45</u>

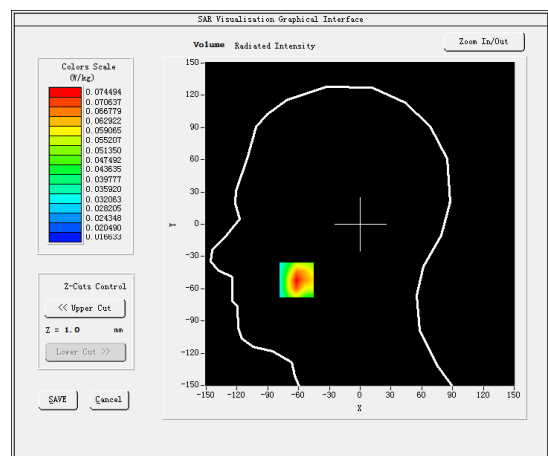
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.003223
Relative permittivity (imaginary part)	13.825655
Conductivity (S/m)	1.330719
Variation (%)	4.780000

SURFACE SAR



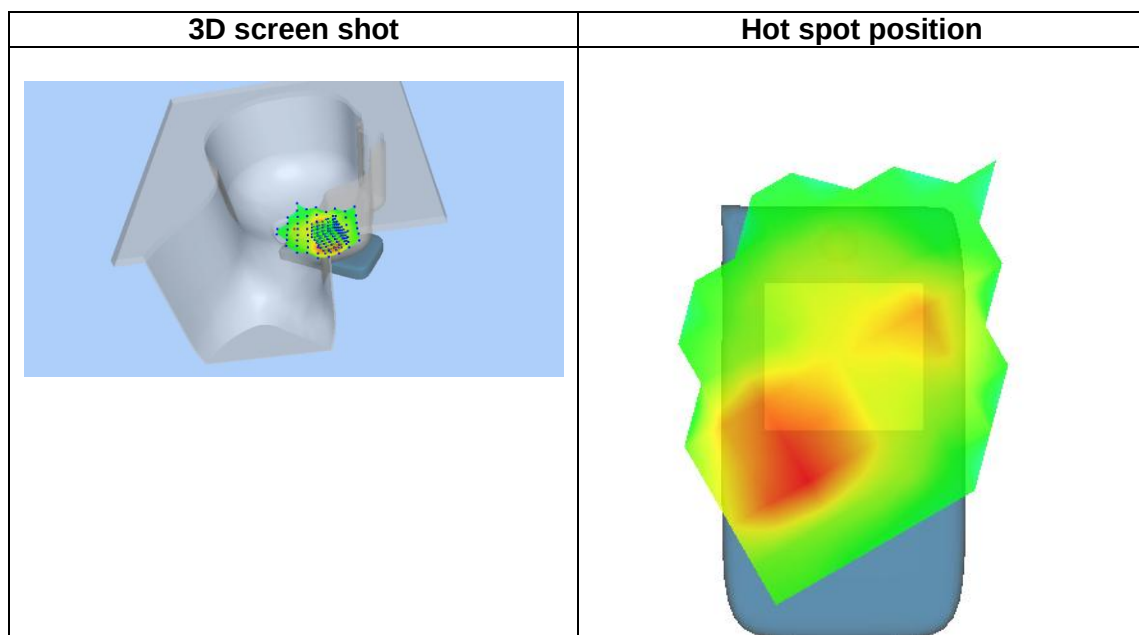
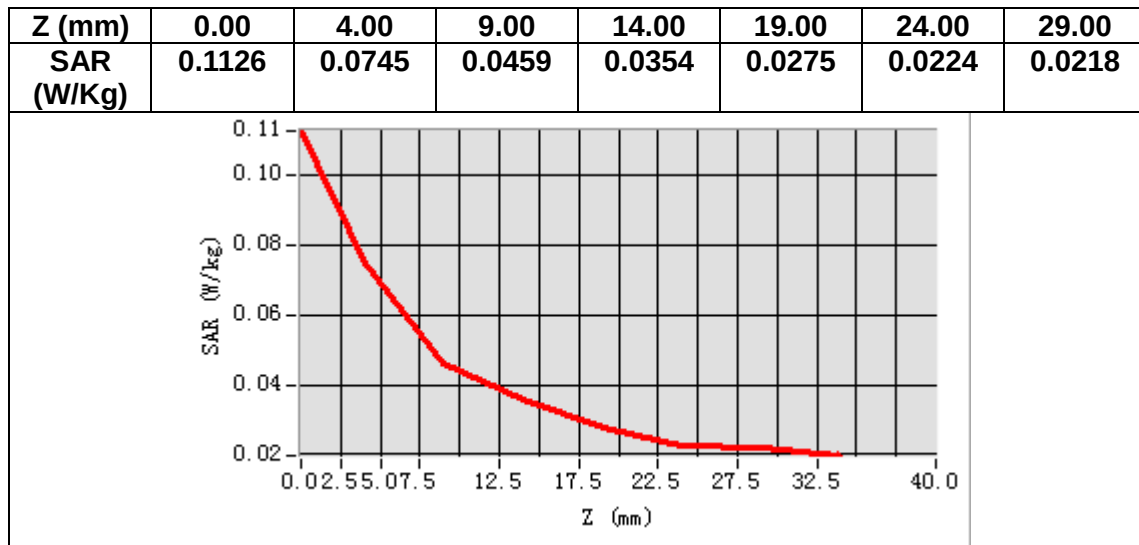
VOLUME SAR



Maximum location: X=-62.00, Y=-52.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.046448
SAR 1g (W/Kg)	0.071520



MEASUREMENT 20

Date of measurement: 8/1/2024

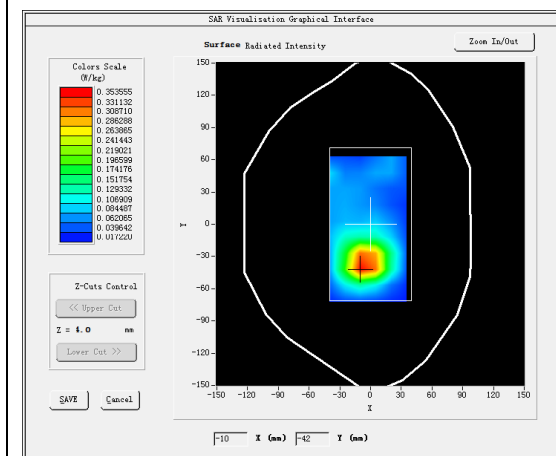
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.45</u>

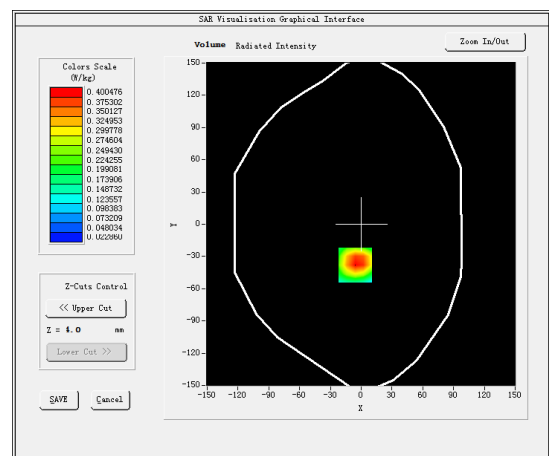
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.003223
Relative permittivity (imaginary part)	13.825655
Conductivity (S/m)	1.330719
Variation (%)	-0.280000

SURFACE SAR



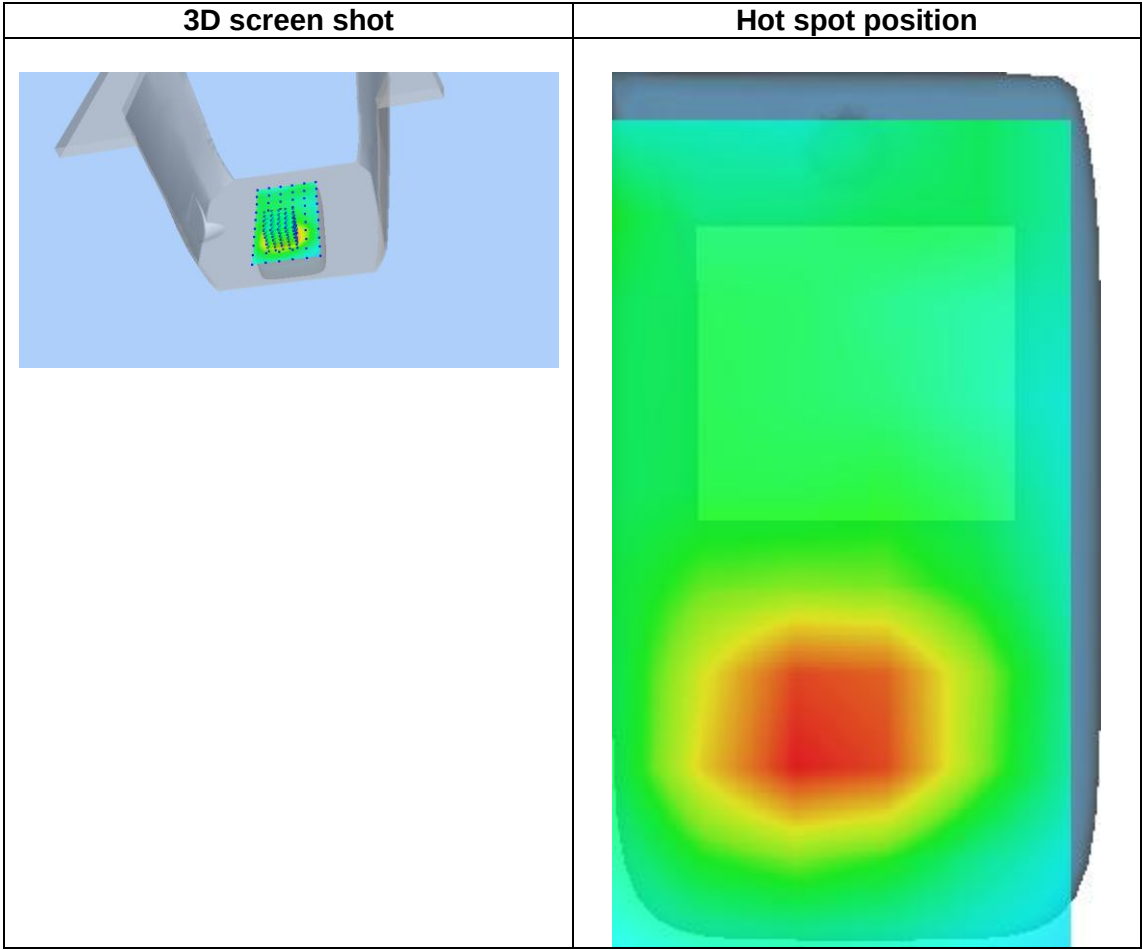
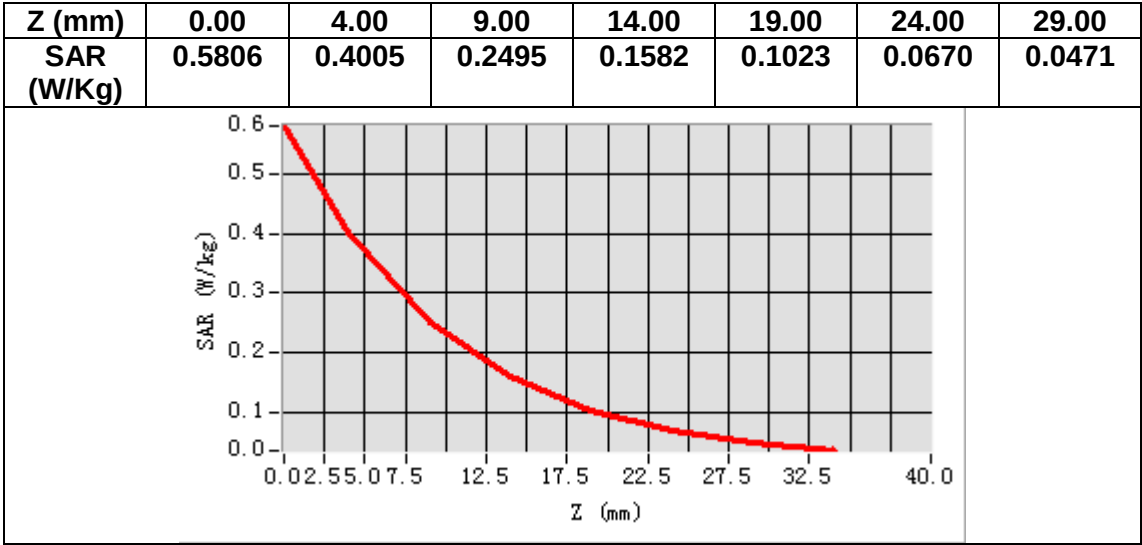
VOLUME SAR



Maximum location: X=-6.00, Y=-38.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.222222
SAR 1g (W/Kg)	0.389120



MEASUREMENT 21

Date of measurement: 10/1/2024

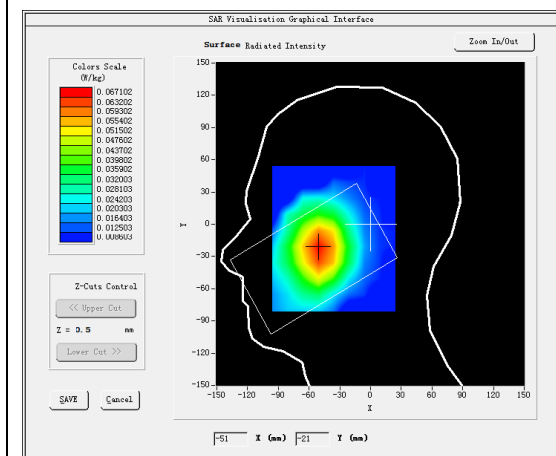
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

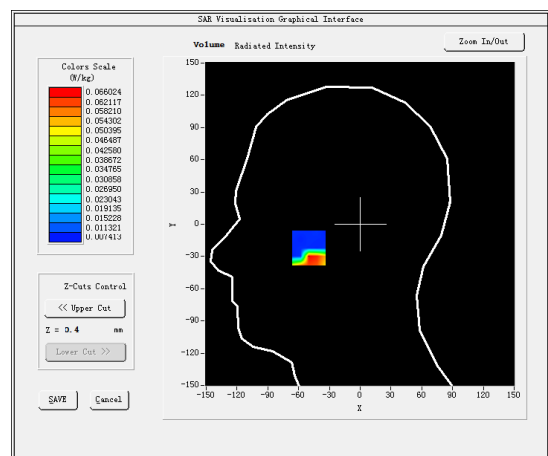
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.417511
Relative permittivity (imaginary part)	19.325539
Conductivity (S/m)	0.898101
Variation (%)	-1.320000

SURFACE SAR



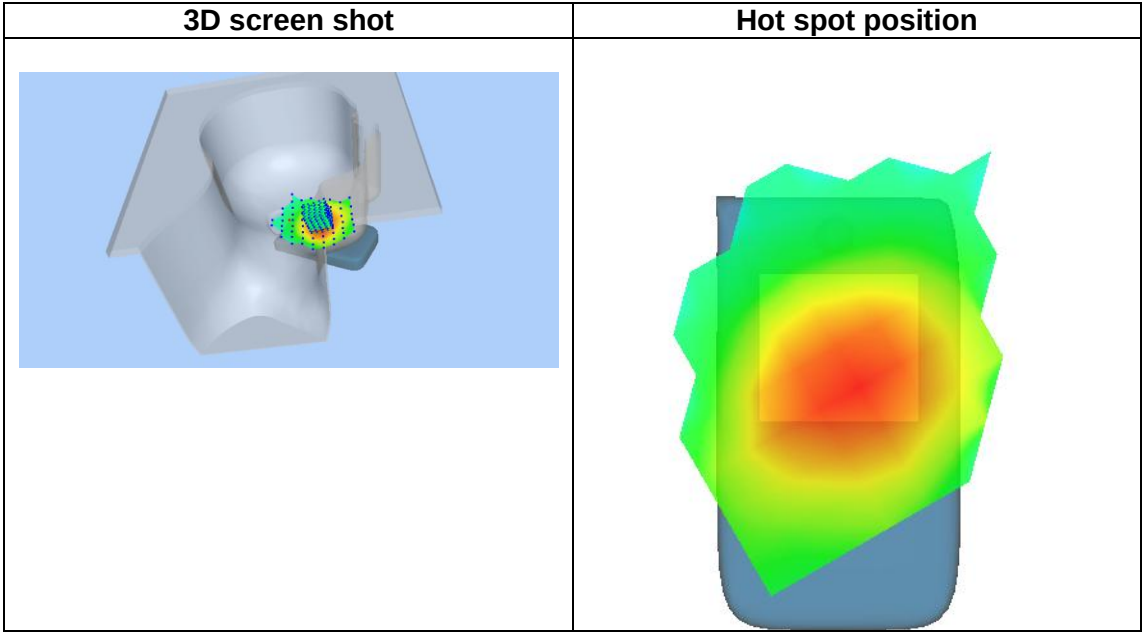
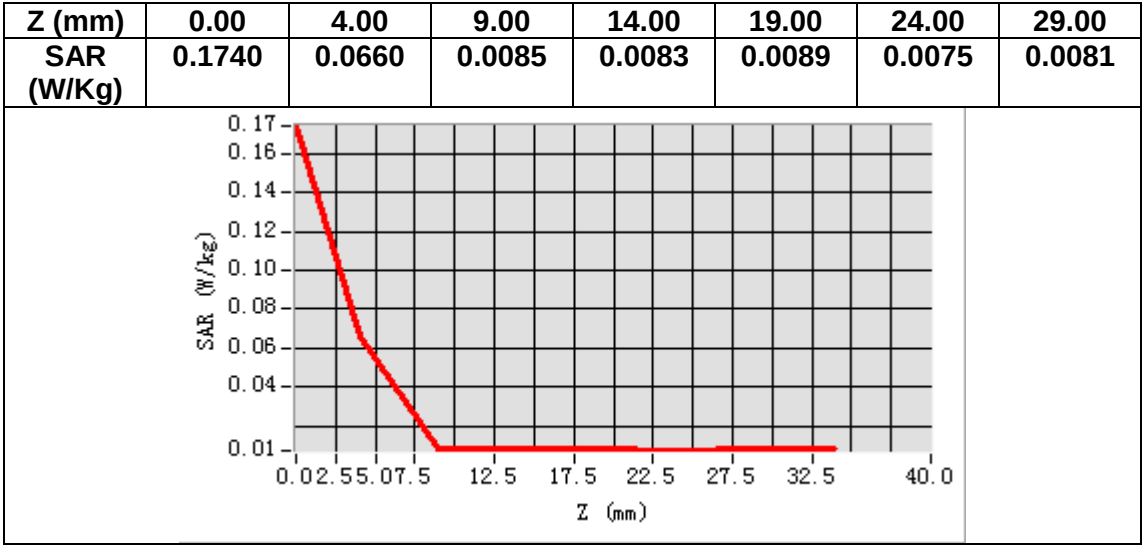
VOLUME SAR



Maximum location: X=-50.00, Y=-22.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.022398
SAR 1g (W/Kg)	0.072692



MEASUREMENT 22

Date of measurement: 10/1/2024

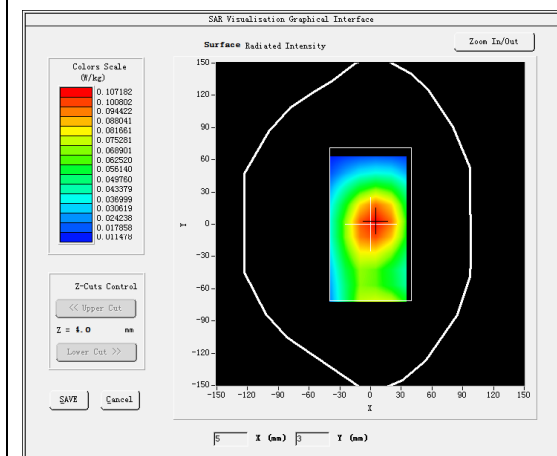
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

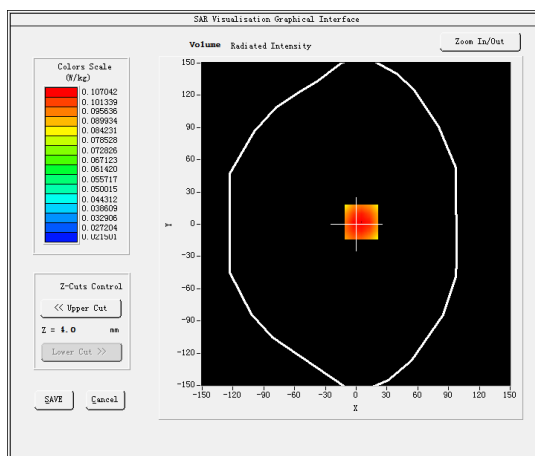
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.417511
Relative permittivity (imaginary part)	19.325539
Conductivity (S/m)	0.898101
Variation (%)	-0.440000

SURFACE SAR



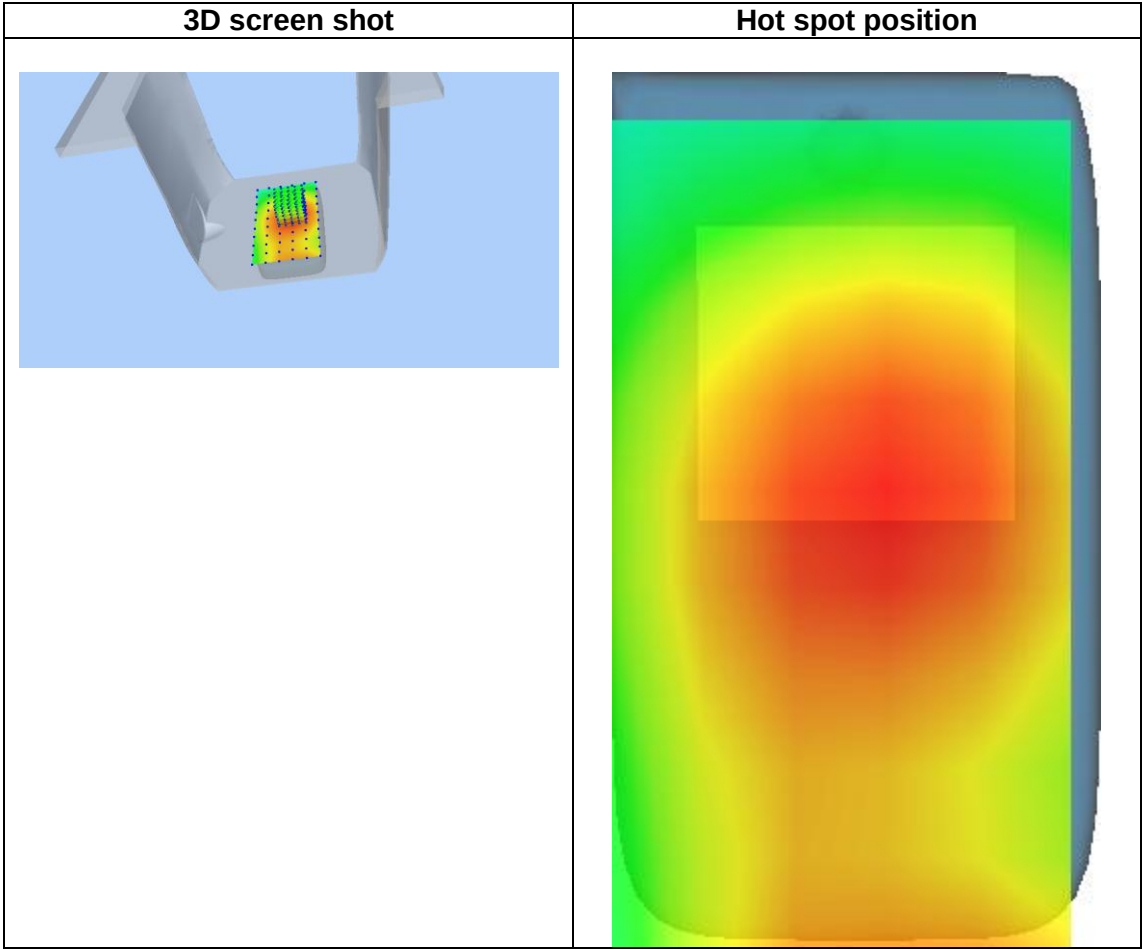
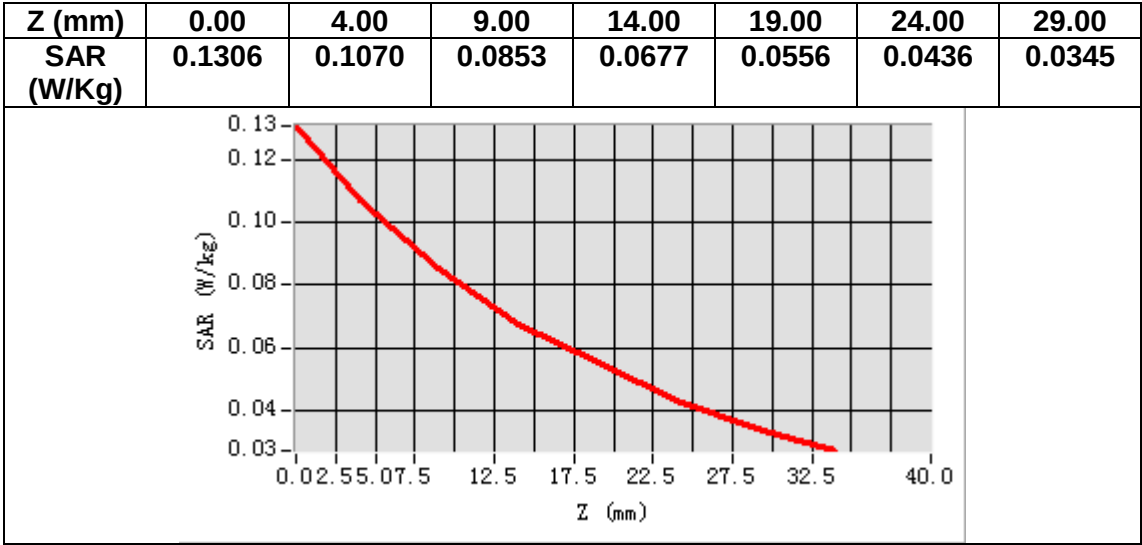
VOLUME SAR



Maximum location: X=5.00, Y=2.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.079323
SAR 1g (W/Kg)	0.104485



MEASUREMENT 23

Date of measurement: 18/1/2024

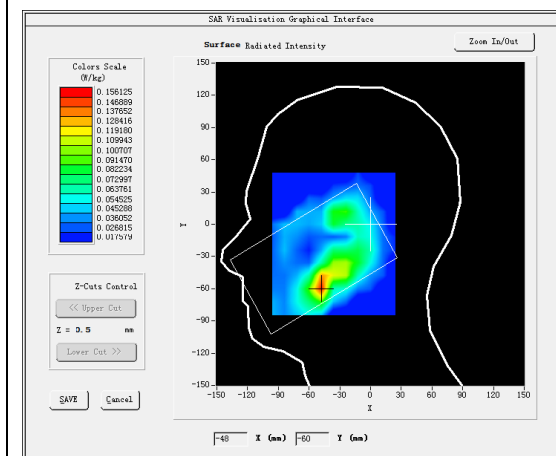
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.65</u>

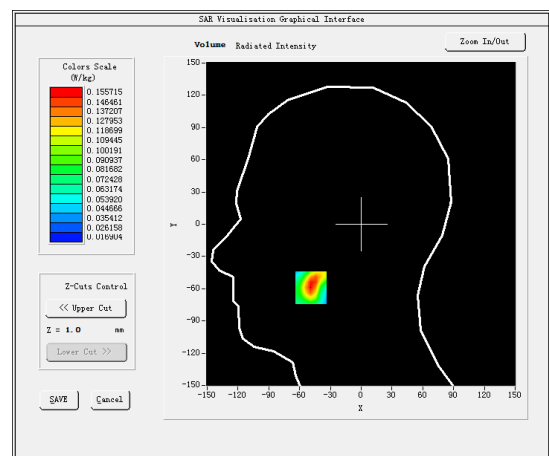
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.002720
Relative permittivity (imaginary part)	13.302074
Conductivity (S/m)	1.873375
Variation (%)	-0.780000

SURFACE SAR



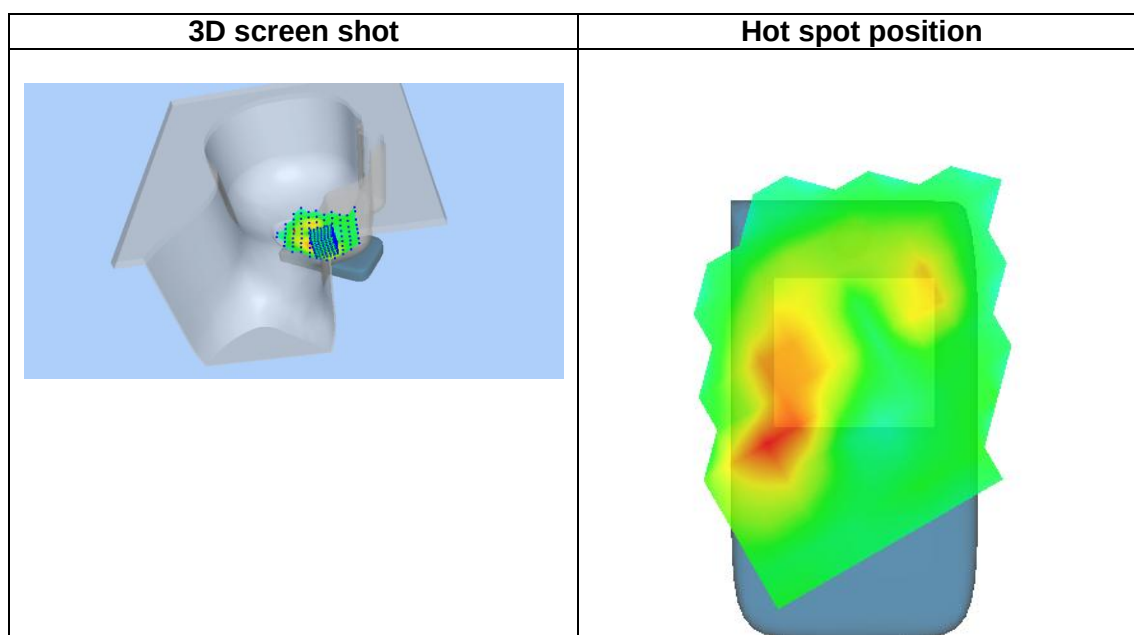
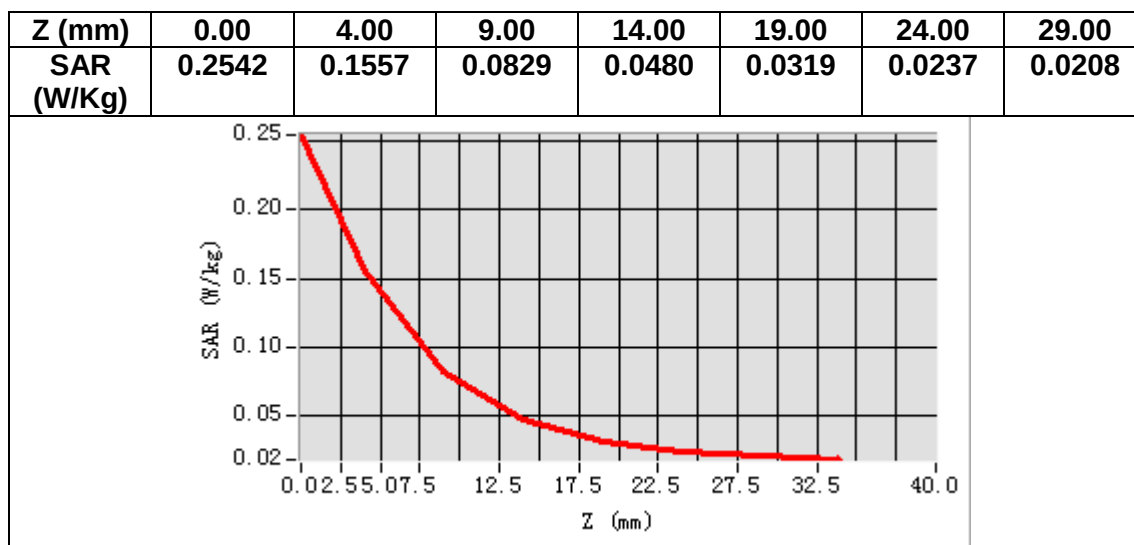
VOLUME SAR



Maximum location: X=-49.00, Y=-59.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.074651
SAR 1g (W/Kg)	0.145074



MEASUREMENT 24

Date of measurement: 18/1/2024

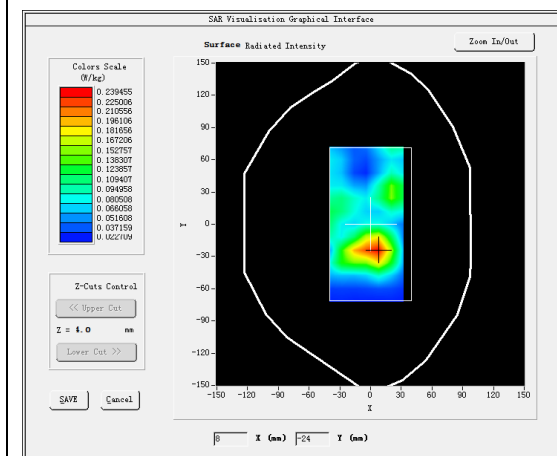
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.65</u>

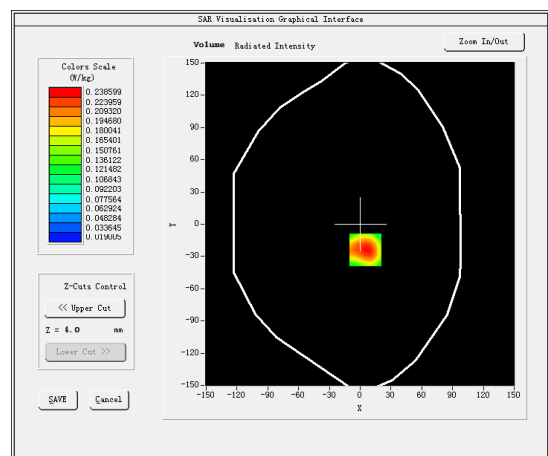
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.002720
Relative permittivity (imaginary part)	13.302074
Conductivity (S/m)	1.873375
Variation (%)	-0.790000

SURFACE SAR



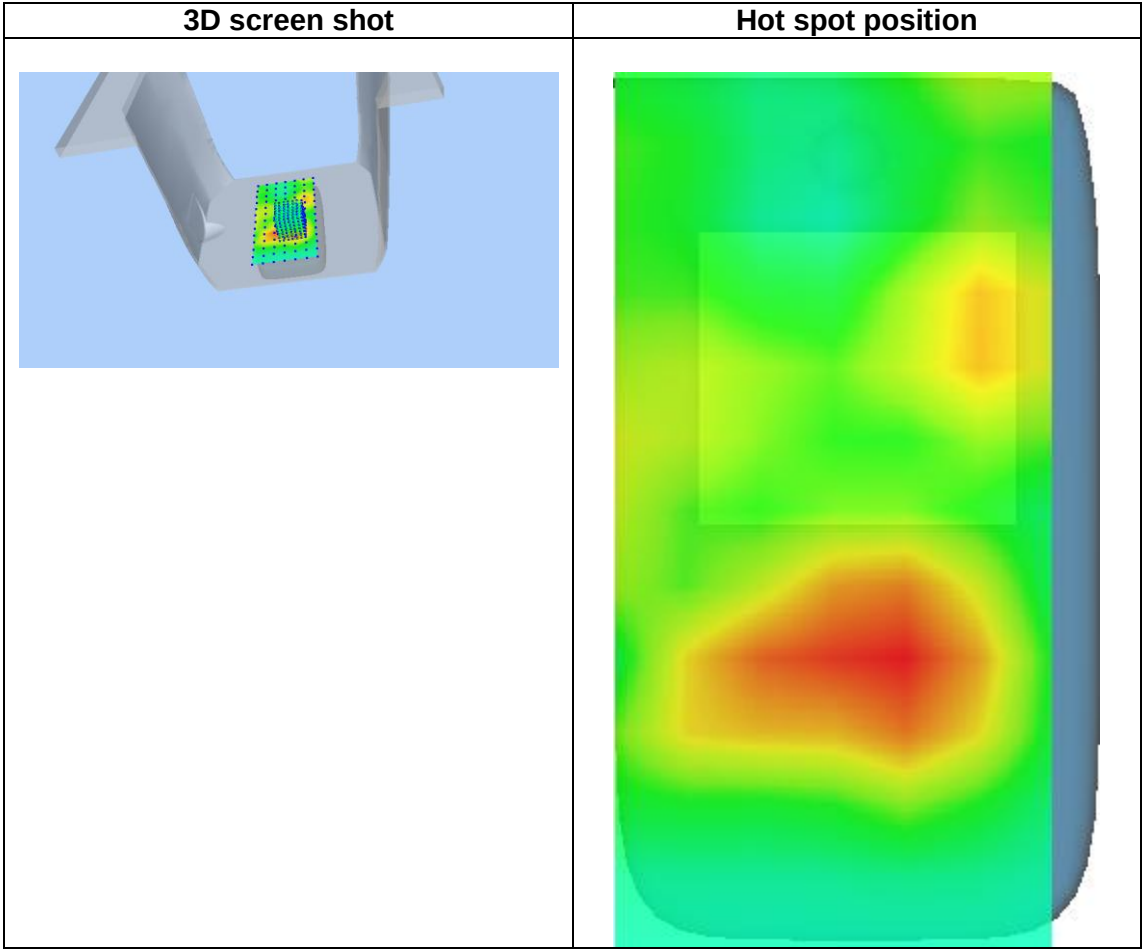
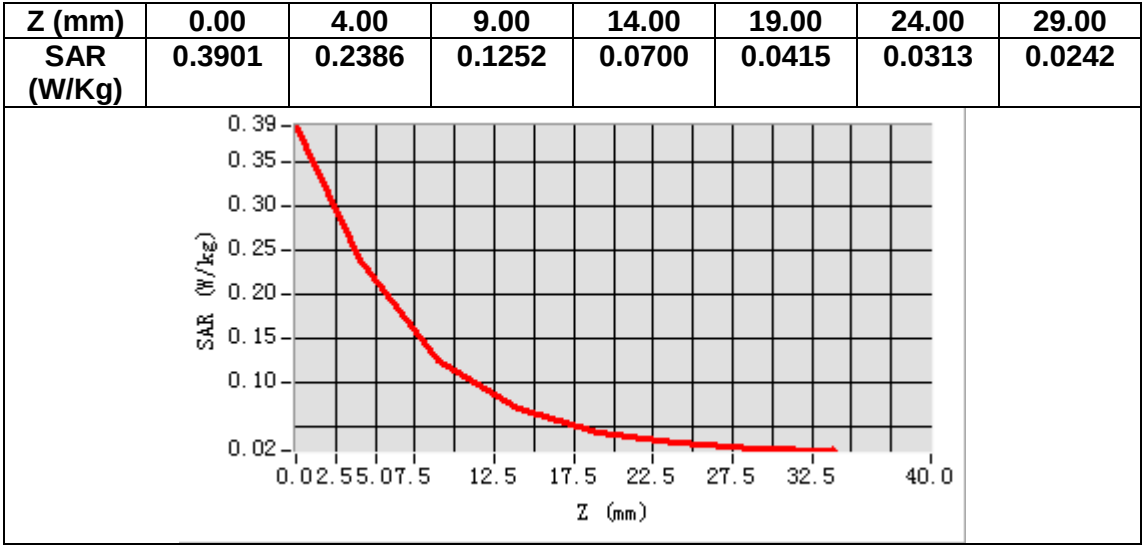
VOLUME SAR



Maximum location: X=5.00, Y=-24.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.123972
SAR 1g (W/Kg)	0.227497



MEASUREMENT 25

Date of measurement: 19/1/2024

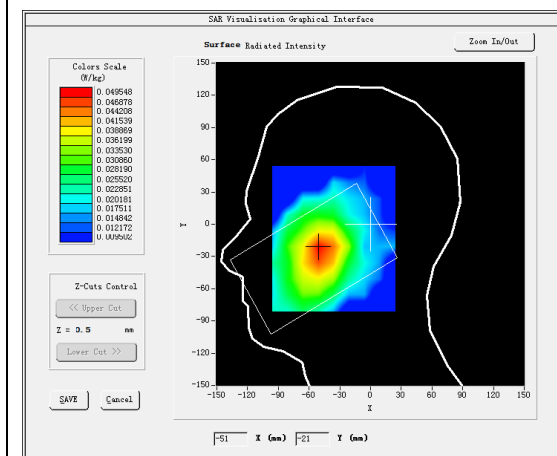
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

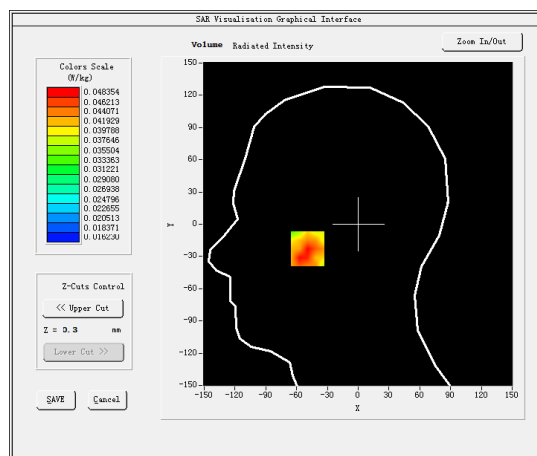
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	41.953403
Relative permittivity (imaginary part)	21.974871
Conductivity (S/m)	0.863735
Variation (%)	-1.150000

SURFACE SAR



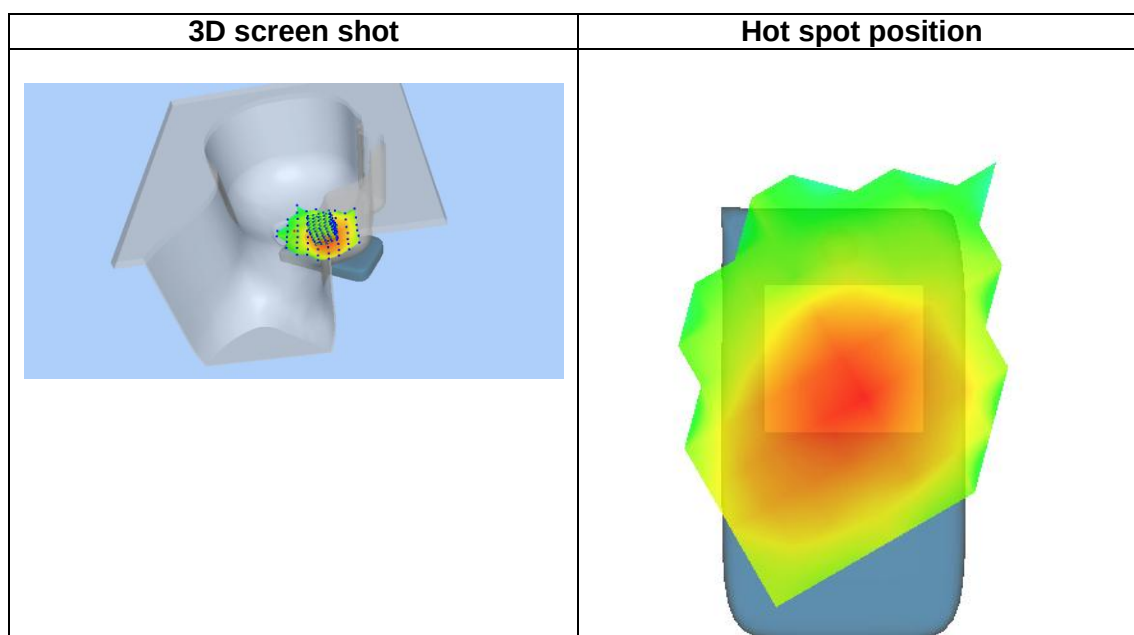
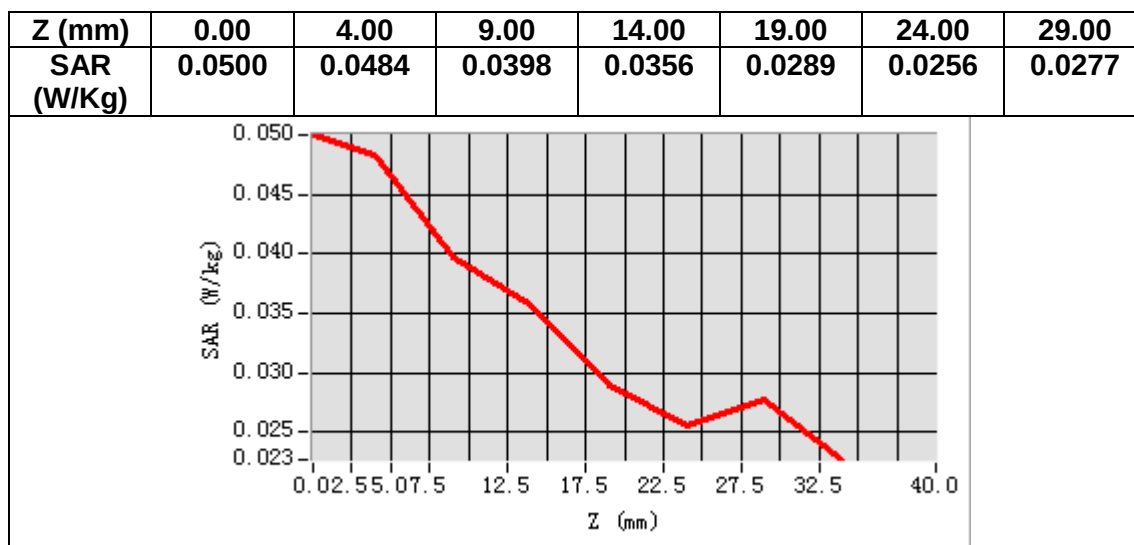
VOLUME SAR



Maximum location: X=-49.00, Y=-23.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.037919
SAR 1g (W/Kg)	0.048389



MEASUREMENT 26

Date of measurement: 19/1/2024

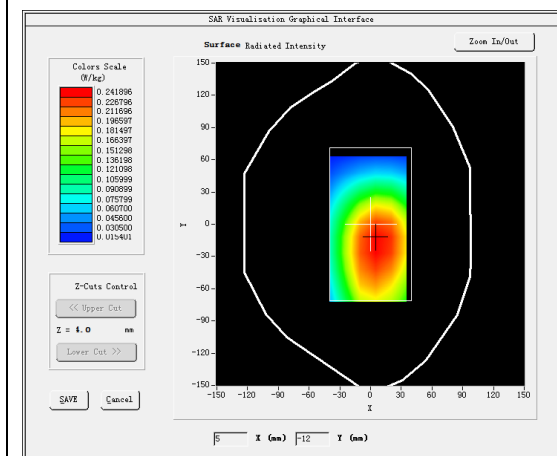
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

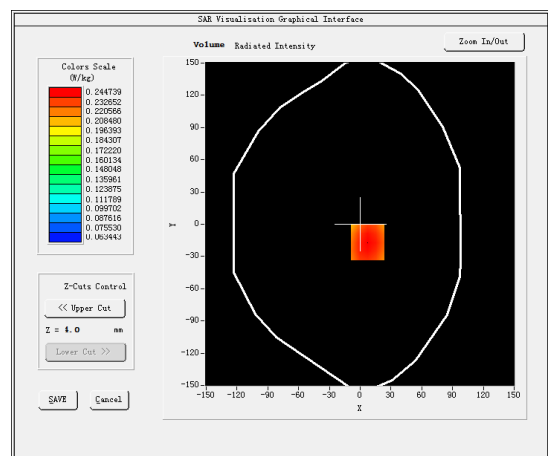
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	41.953403
Relative permittivity (imaginary part)	21.974871
Conductivity (S/m)	0.863735
Variation (%)	0.000000

SURFACE SAR



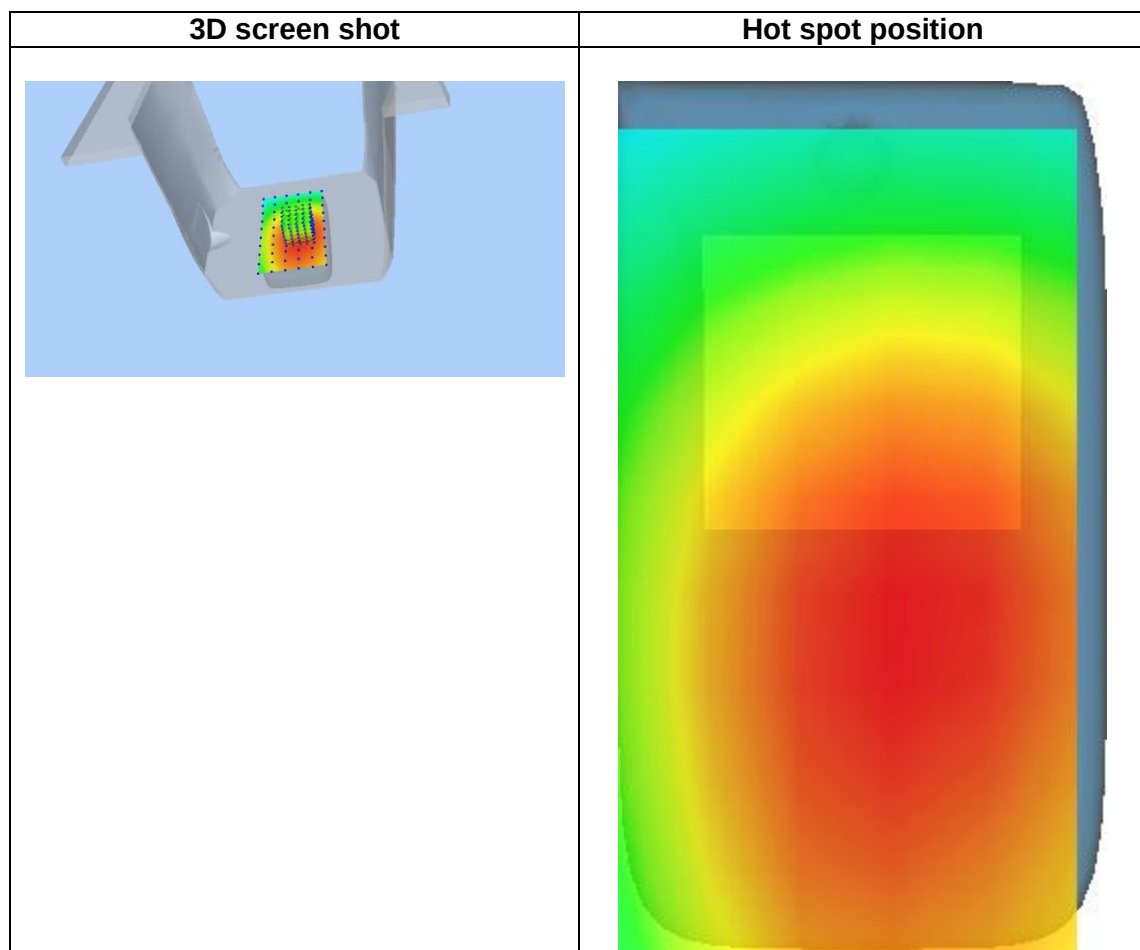
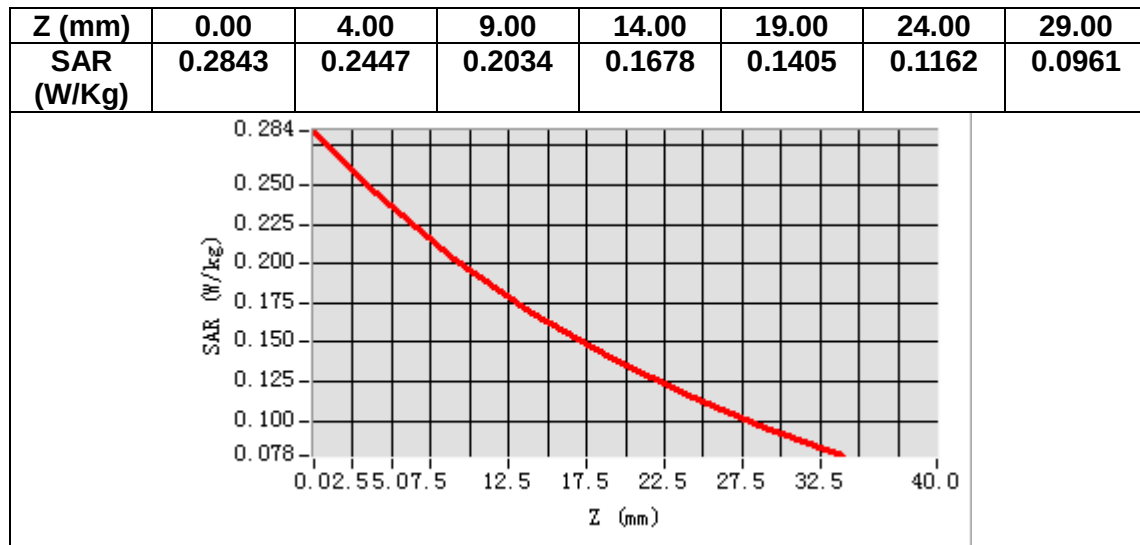
VOLUME SAR



Maximum location: X=7.00, Y=-17.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.191369
SAR 1g (W/Kg)	0.238594



MEASUREMENT 27

Date of measurement: 19/1/2024

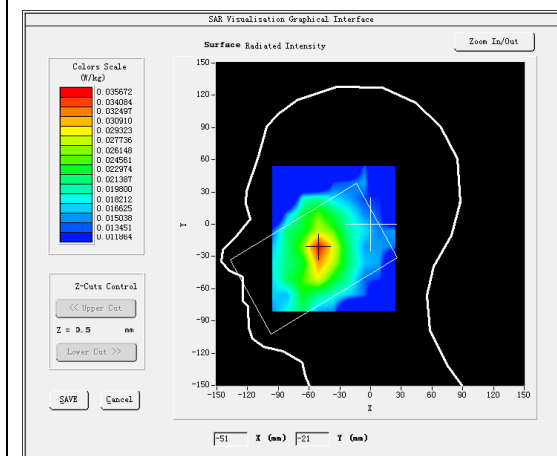
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 13</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

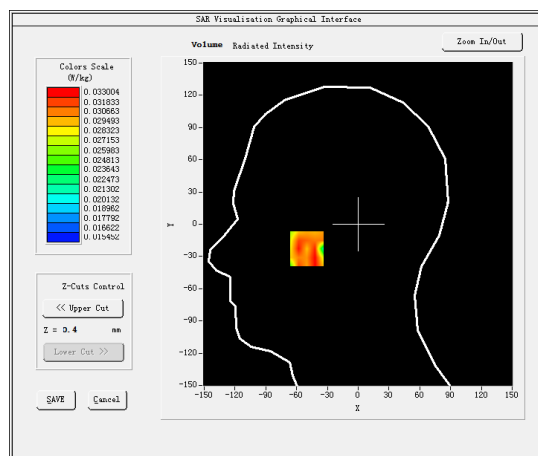
B. SAR Measurement Results

Frequency (MHz)	780.000000
Relative permittivity (real part)	41.119553
Relative permittivity (imaginary part)	20.766920
Conductivity (S/m)	0.901630
Variation (%)	2.990000

SURFACE SAR



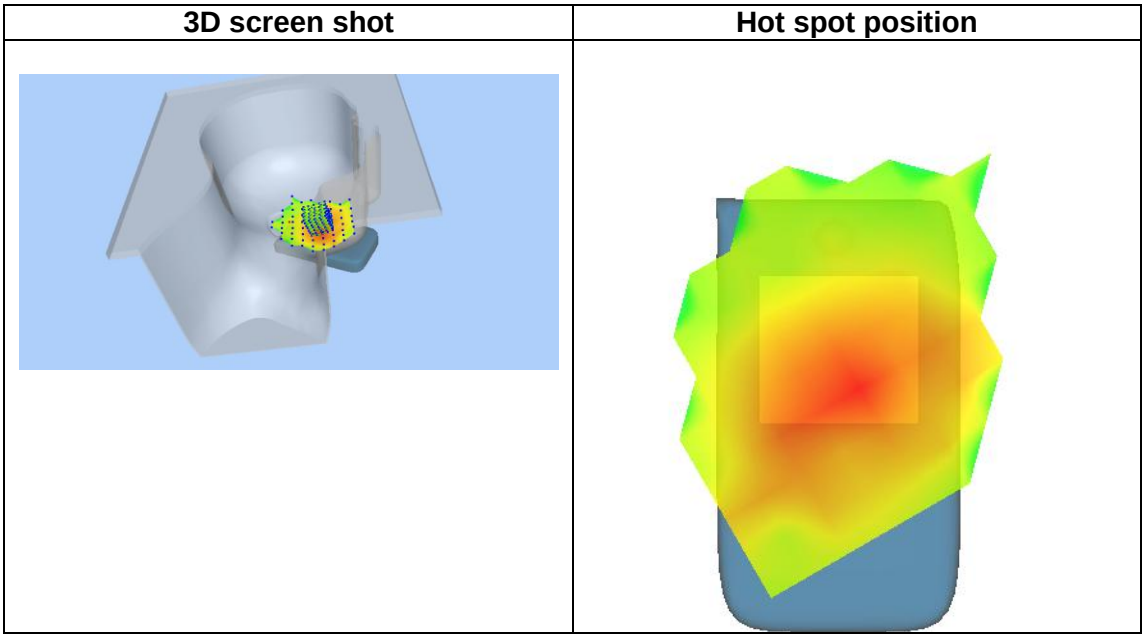
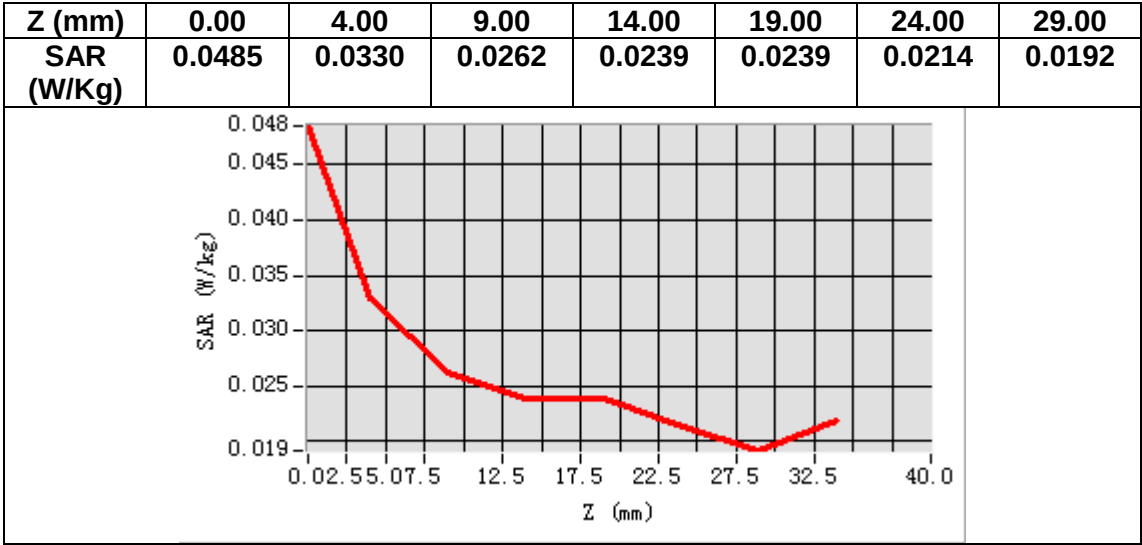
VOLUME SAR



Maximum location: X=-50.00, Y=-23.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.027510
SAR 1g (W/Kg)	0.033694



MEASUREMENT 28

Date of measurement: 19/1/2024

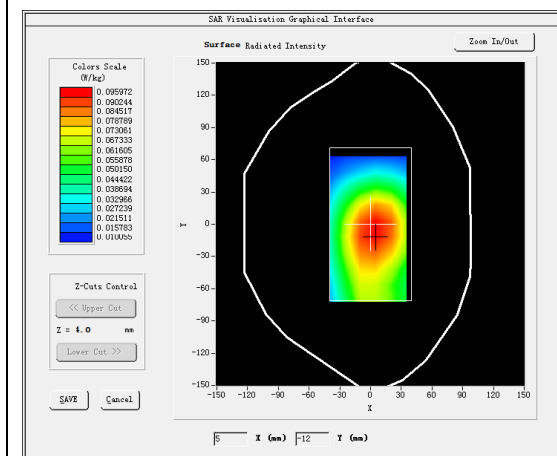
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 13</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

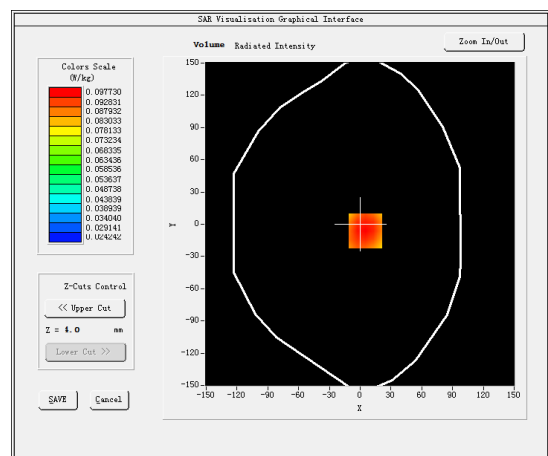
B. SAR Measurement Results

Frequency (MHz)	782.000000
Relative permittivity (real part)	41.119553
Relative permittivity (imaginary part)	20.766920
Conductivity (S/m)	0.901630
Variation (%)	0.850000

SURFACE SAR



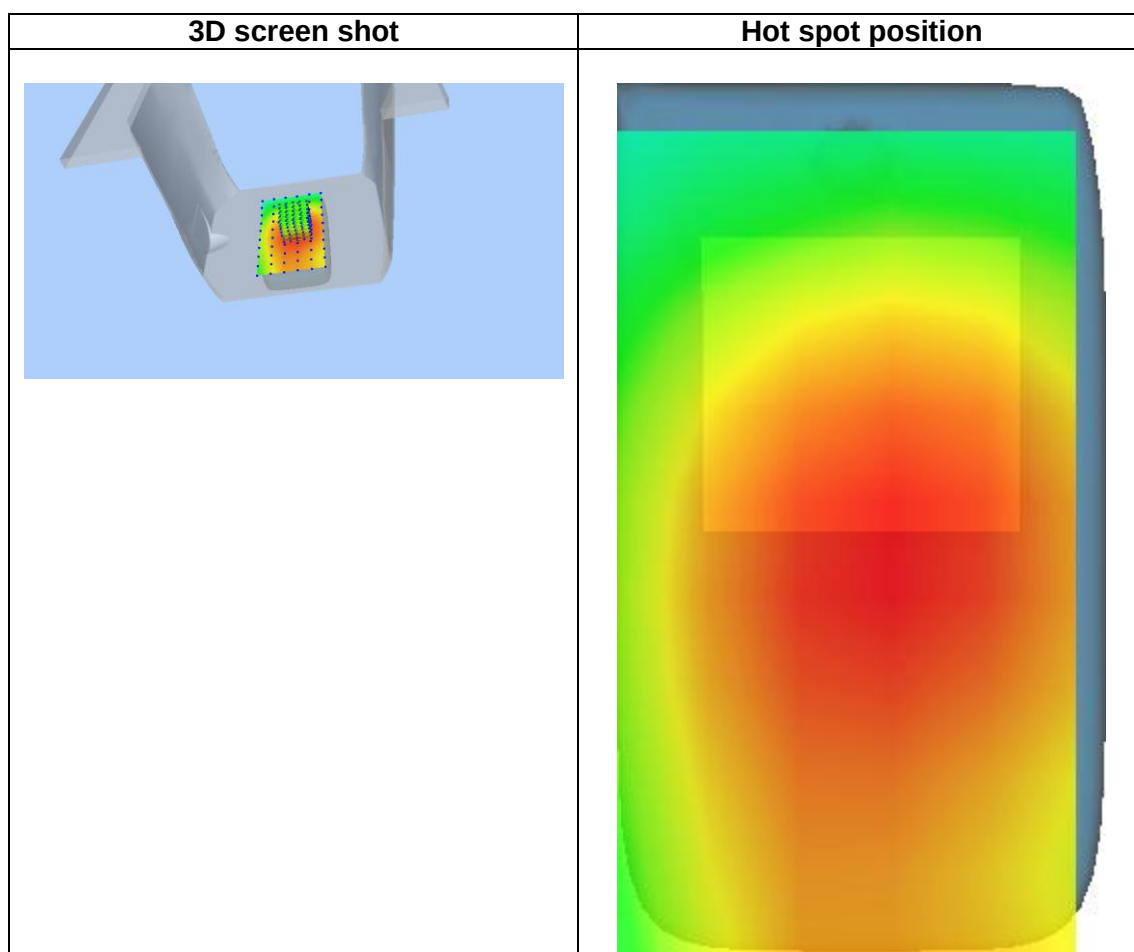
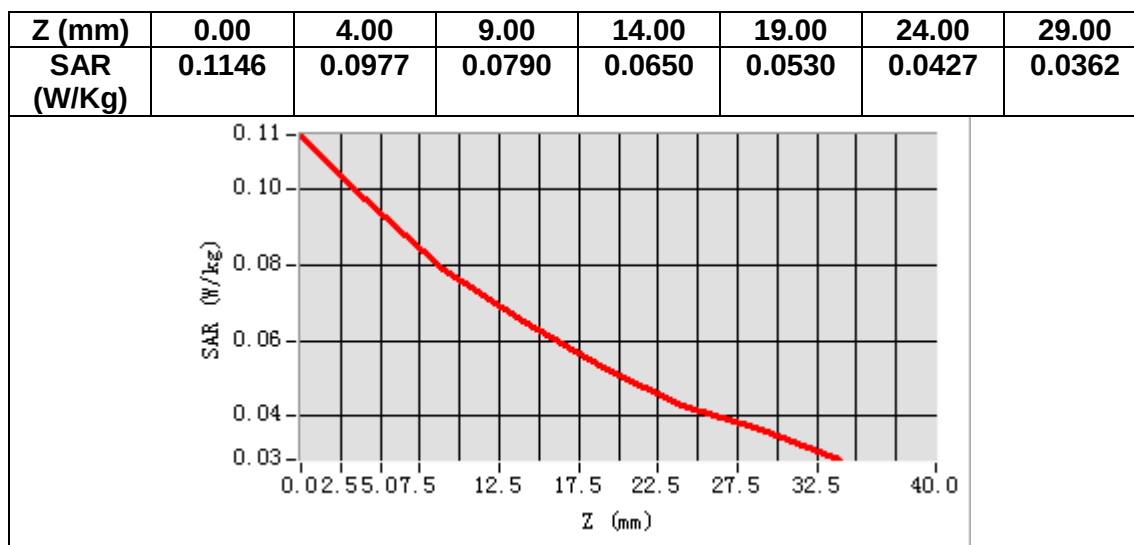
VOLUME SAR



Maximum location: X=5.00, Y=-6.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.074733
SAR 1g (W/Kg)	0.095740



MEASUREMENT 29

Date of measurement: 19/1/2024

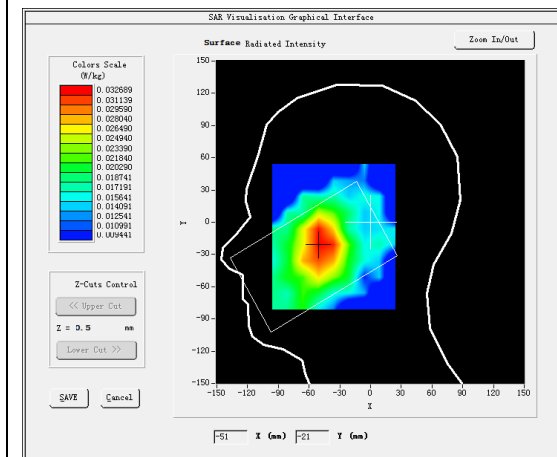
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

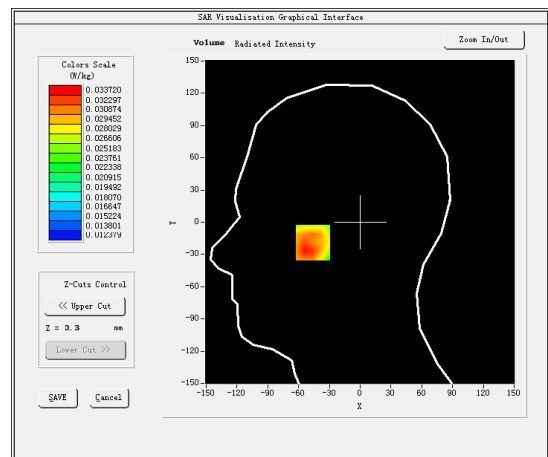
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	42.076576
Relative permittivity (imaginary part)	22.037579
Conductivity (S/m)	0.869260
Variation (%)	-0.220000

SURFACE SAR



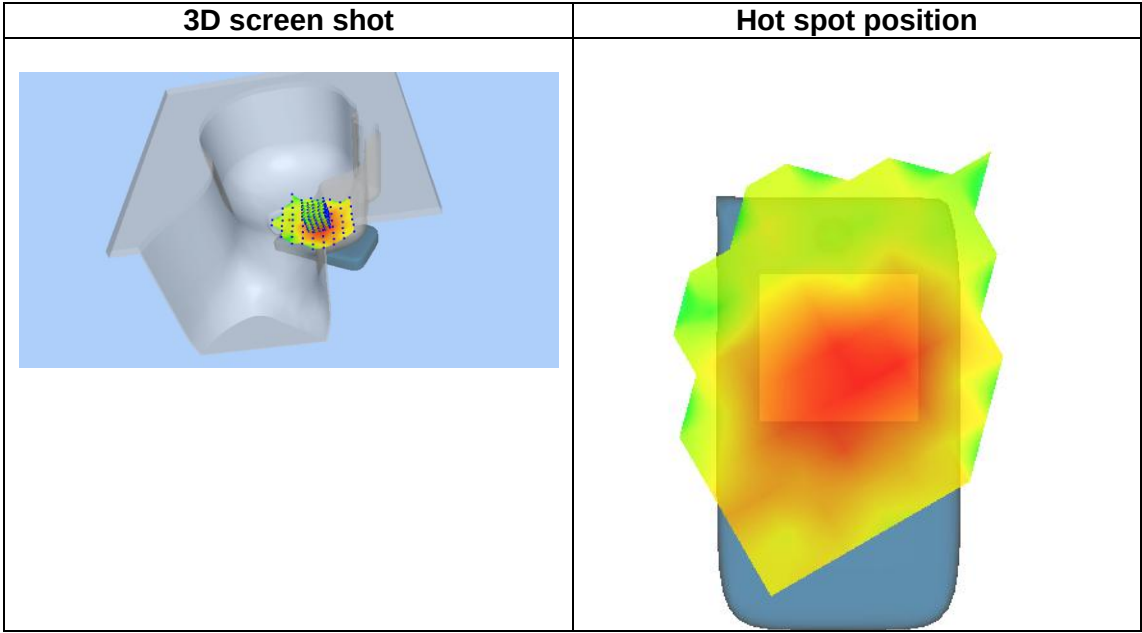
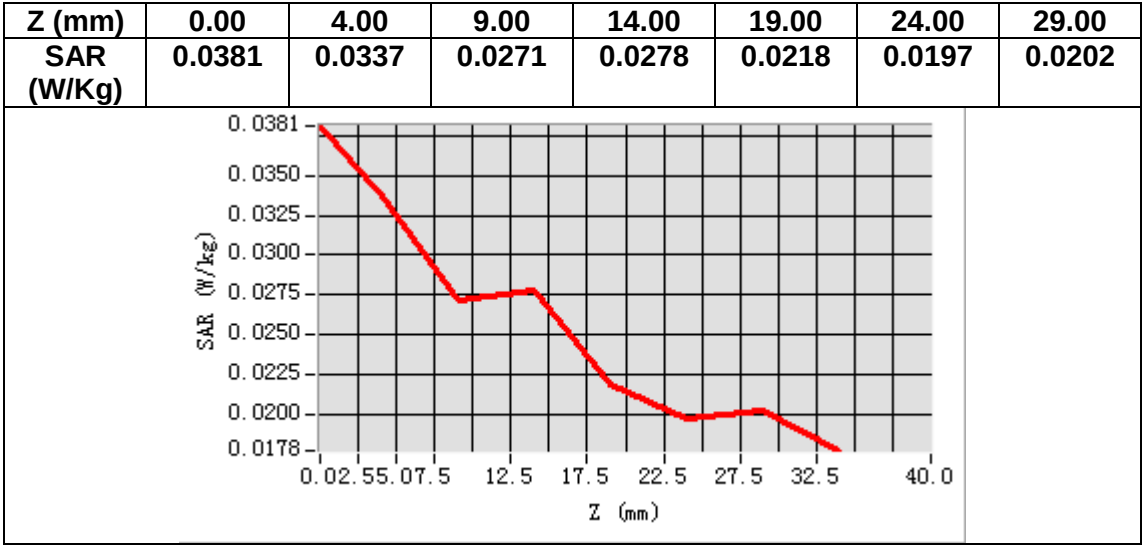
VOLUME SAR



Maximum location: X=-46.00, Y=-19.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.027444
SAR 1g (W/Kg)	0.033200



MEASUREMENT 30

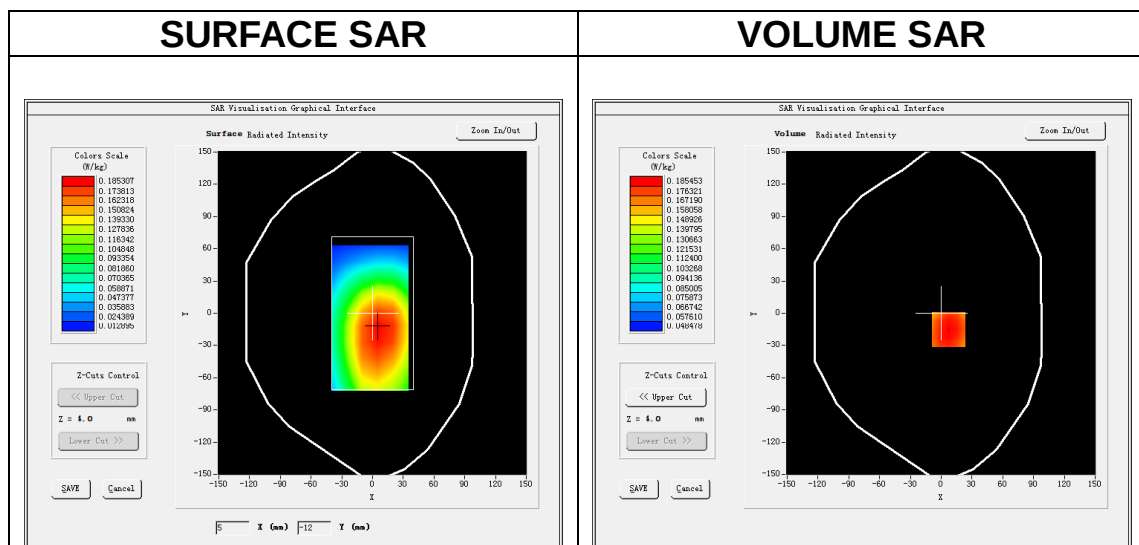
Date of measurement: 19/1/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

B. SAR Measurement Results

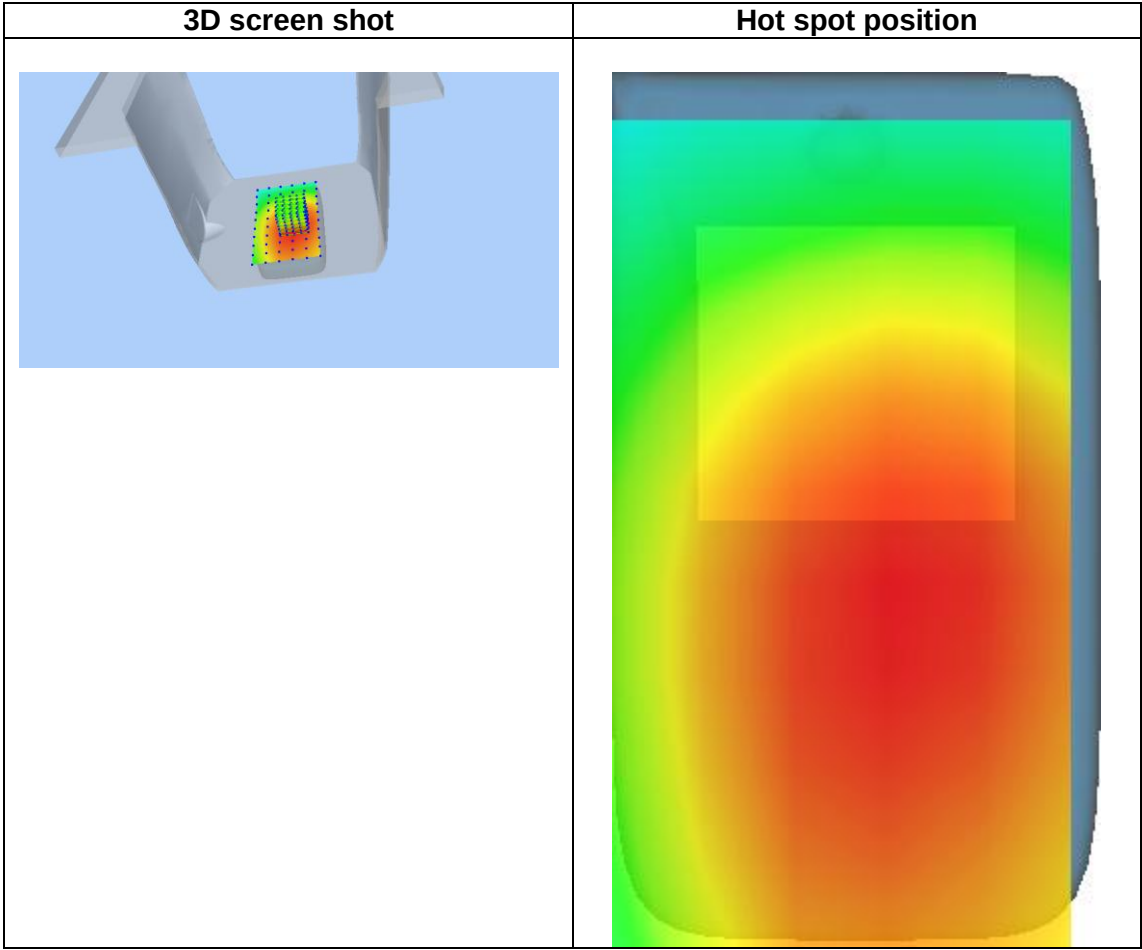
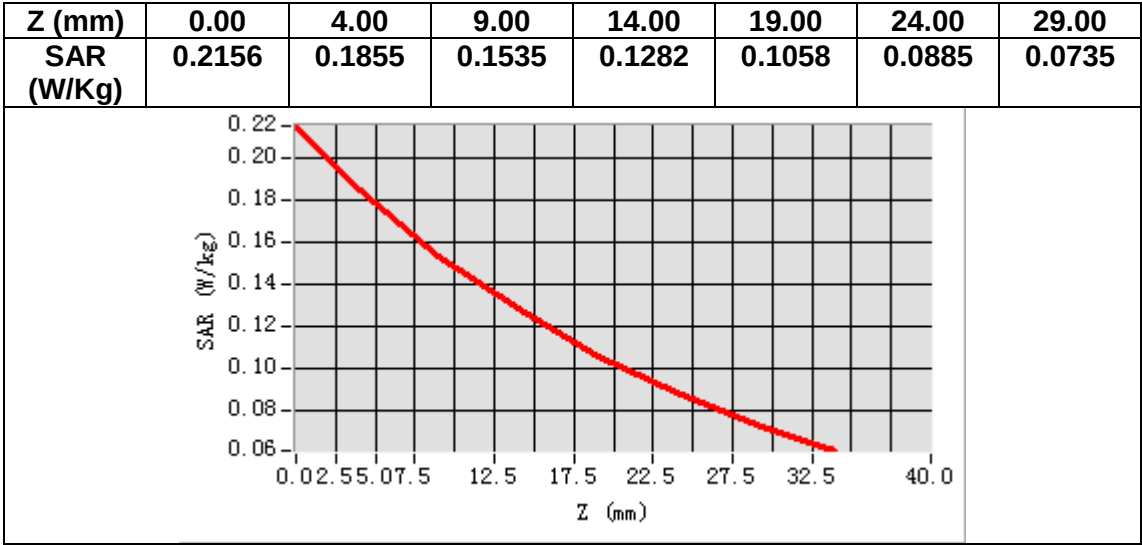
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.076576
Relative permittivity (imaginary part)	22.037579
Conductivity (S/m)	0.869260
Variation (%)	-0.230000



Maximum location: X=7.00, Y=-15.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.145017
SAR 1g (W/Kg)	0.181008



MEASUREMENT 31

Date of measurement: 18/1/2024

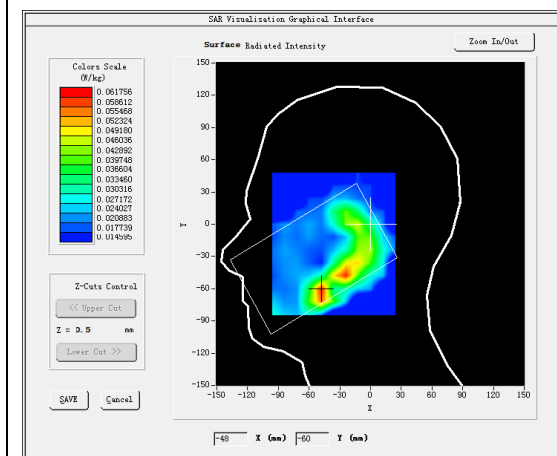
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.65</u>

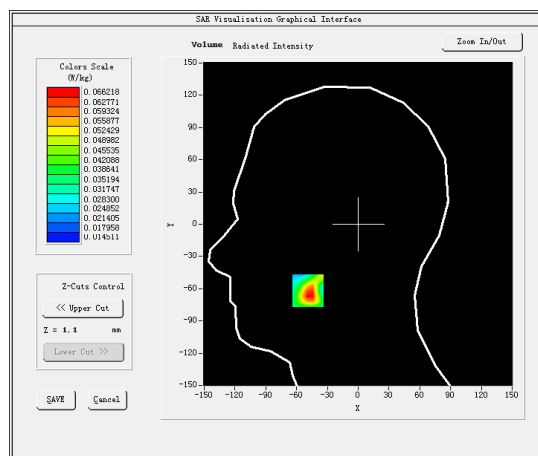
B. SAR Measurement Results

Frequency (MHz)	2595.000000
Relative permittivity (real part)	38.634821
Relative permittivity (imaginary part)	13.515874
Conductivity (S/m)	1.948539
Variation (%)	2.810000

SURFACE SAR



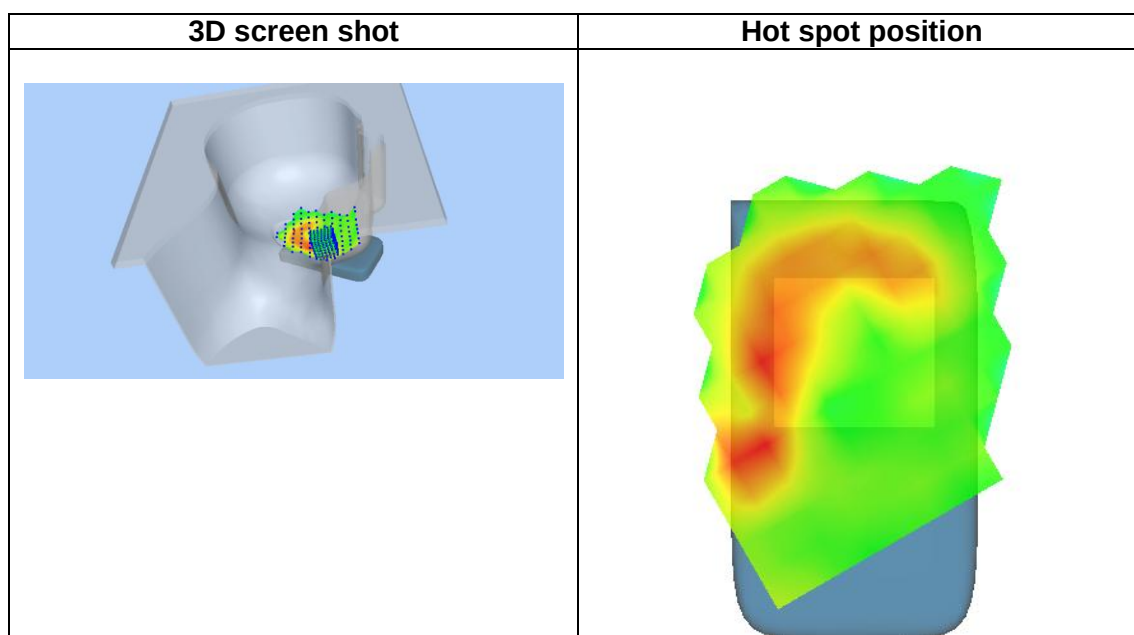
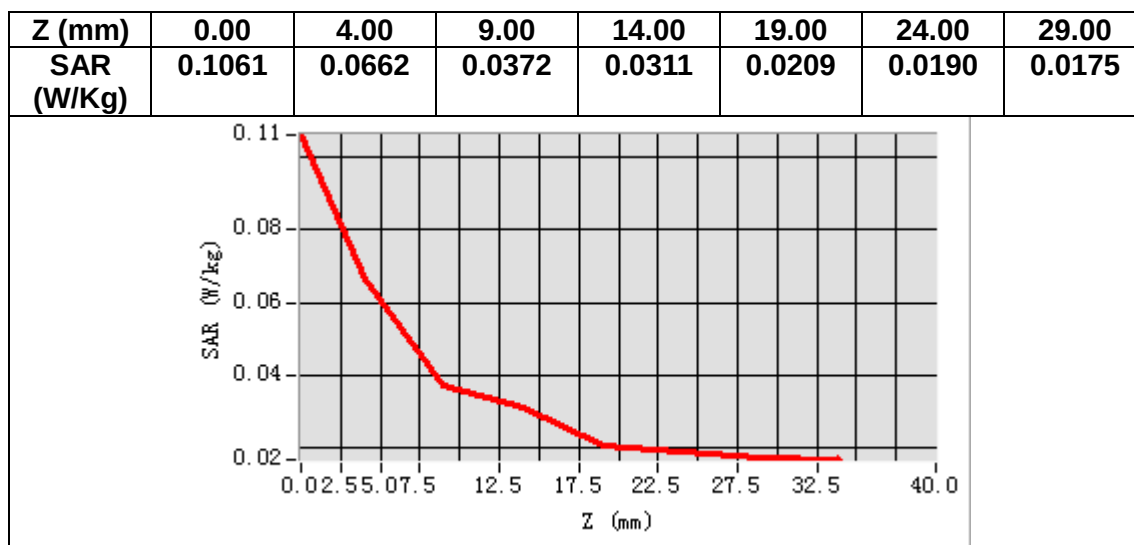
VOLUME SAR



Maximum location: X=-49.00, Y=-62.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.036626
SAR 1g (W/Kg)	0.061885



MEASUREMENT 32

Date of measurement: 18/1/2024

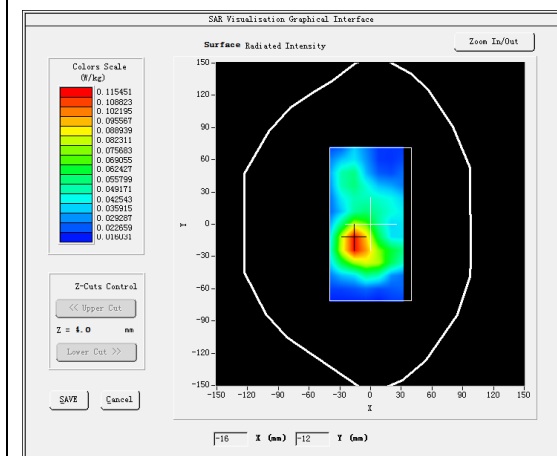
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.65</u>

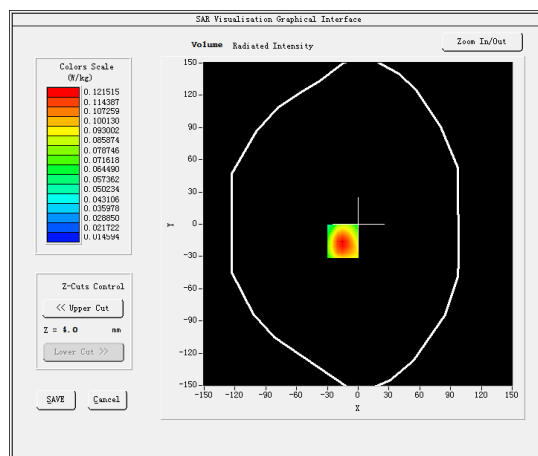
B. SAR Measurement Results

Frequency (MHz)	2595.000000
Relative permittivity (real part)	38.634821
Relative permittivity (imaginary part)	13.515874
Conductivity (S/m)	1.948539
Variation (%)	-0.050000

SURFACE SAR



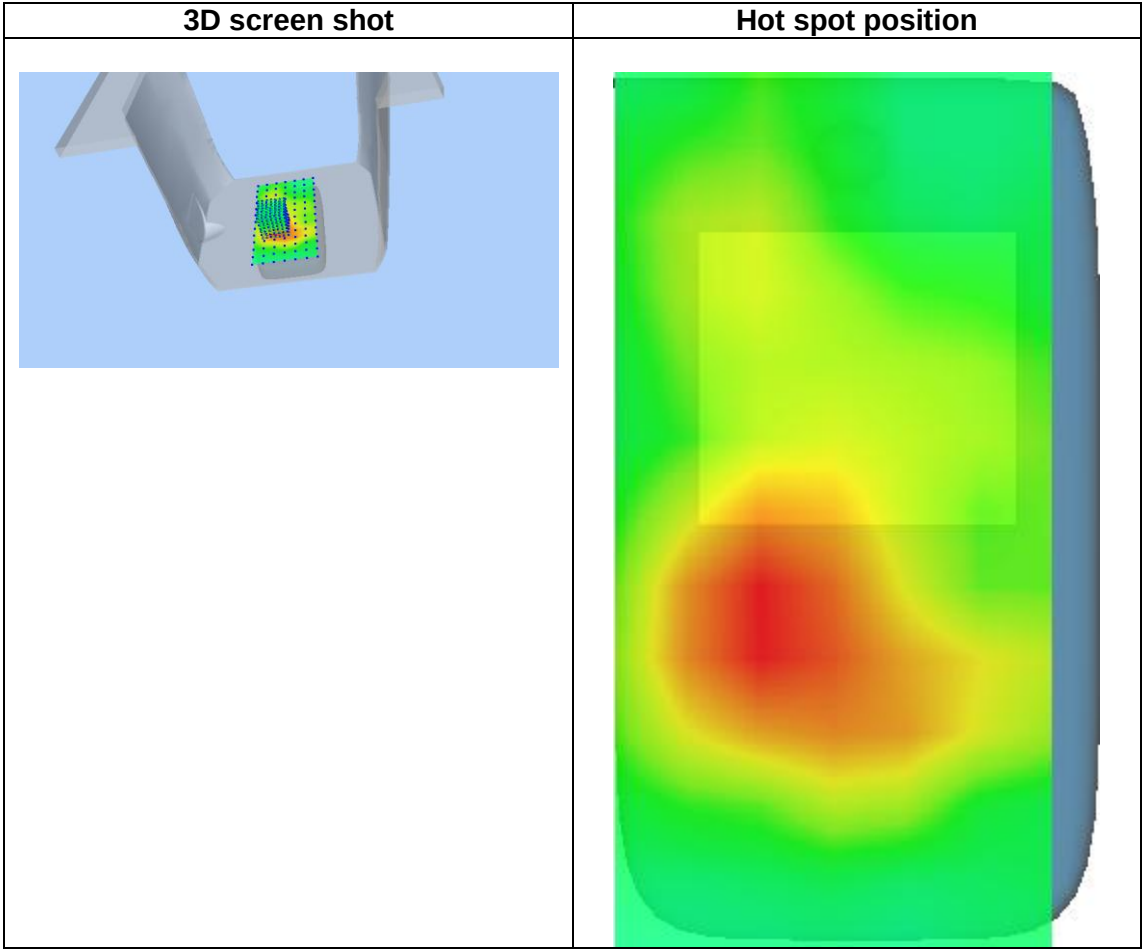
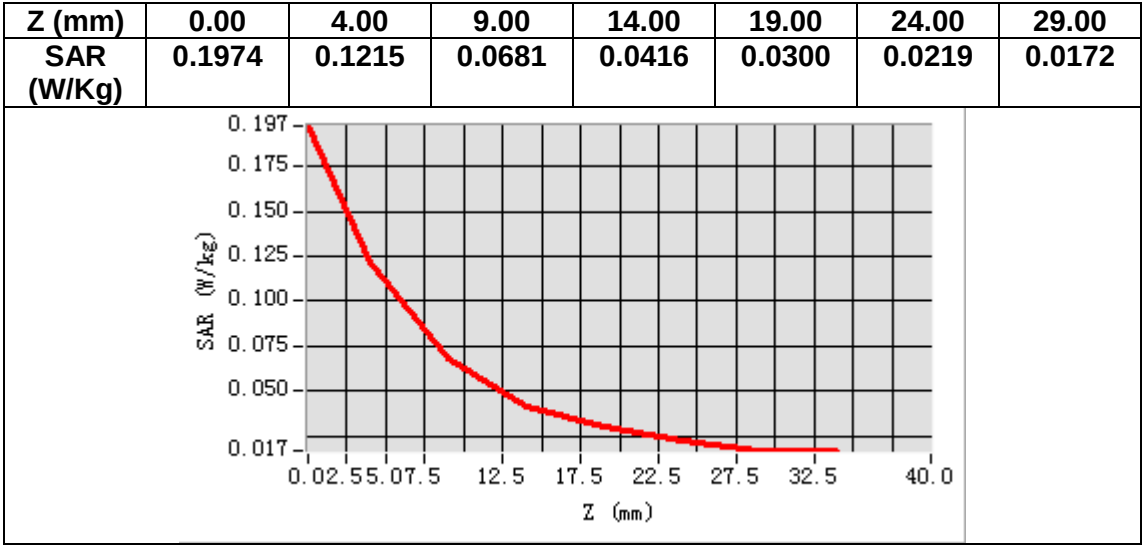
VOLUME SAR



Maximum location: X=-15.00, Y=-16.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.066960
SAR 1g (W/Kg)	0.115311



MEASUREMENT 33

Date of measurement: 10/1/2024

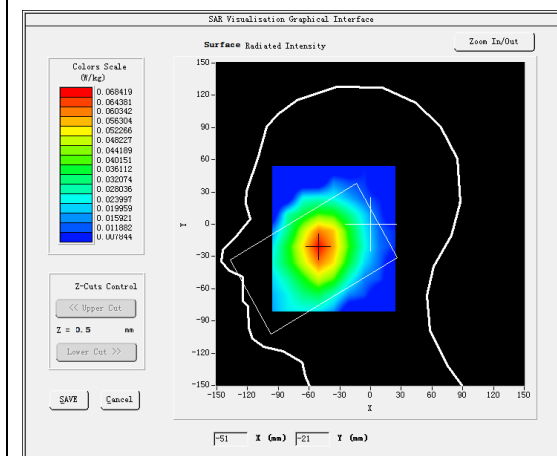
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>FDDBand26A</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Crest factor: 1.0</u>
<u>ConvF</u>	<u>2.32</u>

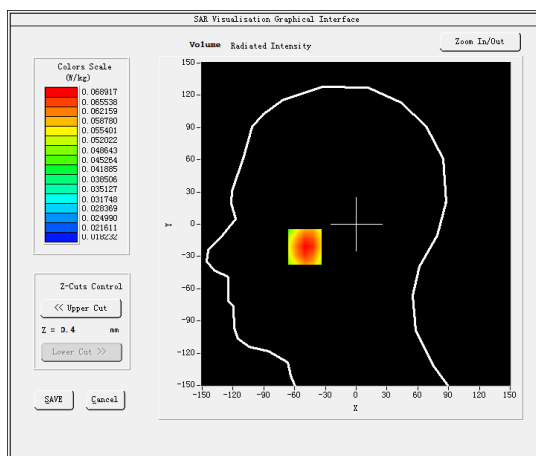
B. SAR Measurement Results

Frequency (MHz)	819.000000
Relative permittivity (real part)	41.525738
Relative permittivity (imaginary part)	19.132080
Conductivity (S/m)	0.870510
Variation (%)	-1.860000

SURFACE SAR



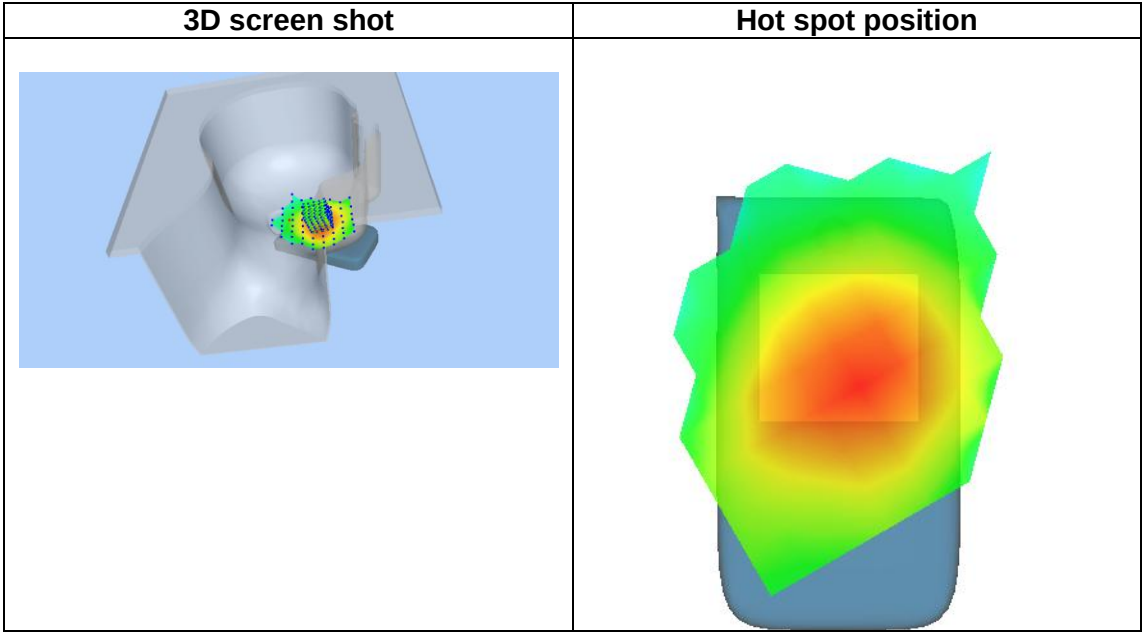
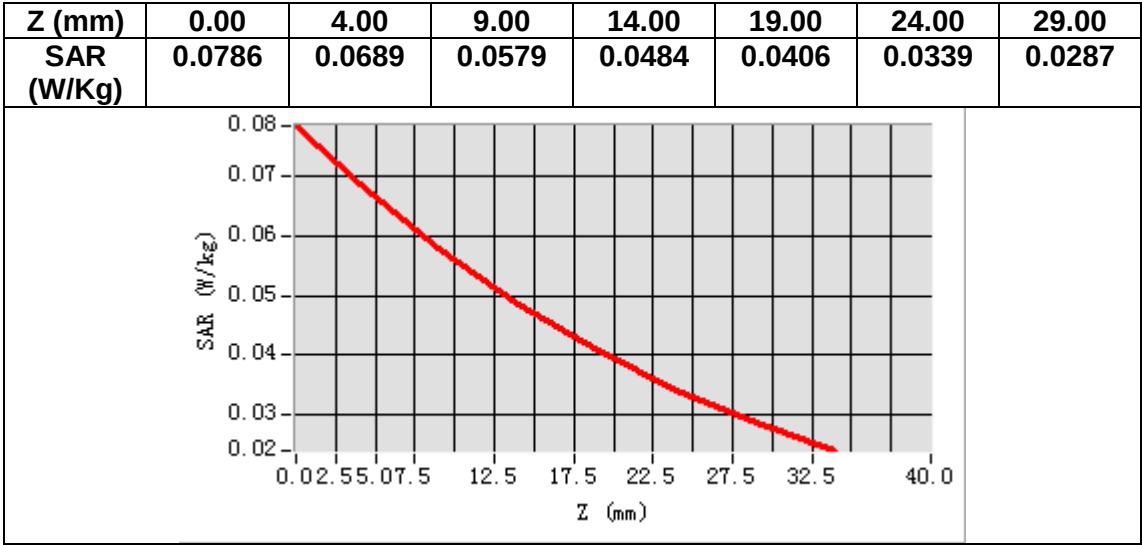
VOLUME SAR



Maximum location: X=-50.00, Y=-21.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.052419
SAR 1g (W/Kg)	0.066687



MEASUREMENT 34

Date of measurement: 10/1/2024

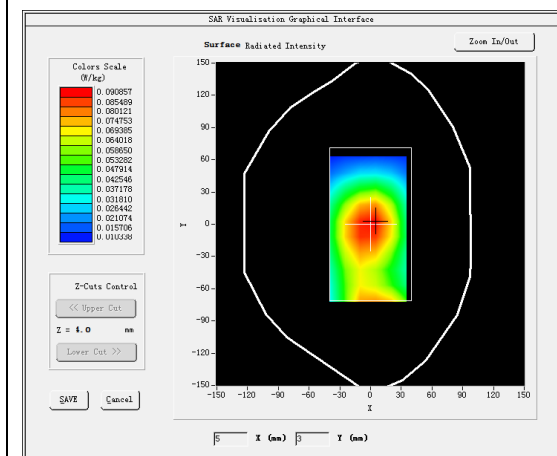
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>FDDBand26A</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Crest factor: 1.0</u>
<u>ConvF</u>	<u>2.32</u>

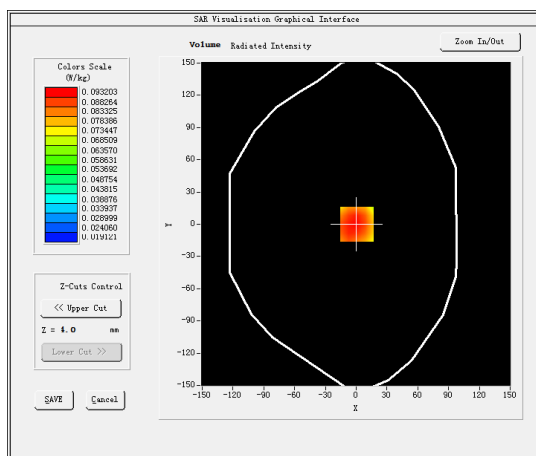
B. SAR Measurement Results

Frequency (MHz)	819.000000
Relative permittivity (real part)	41.525738
Relative permittivity (imaginary part)	19.132080
Conductivity (S/m)	0.870510
Variation (%)	0.650000

SURFACE SAR



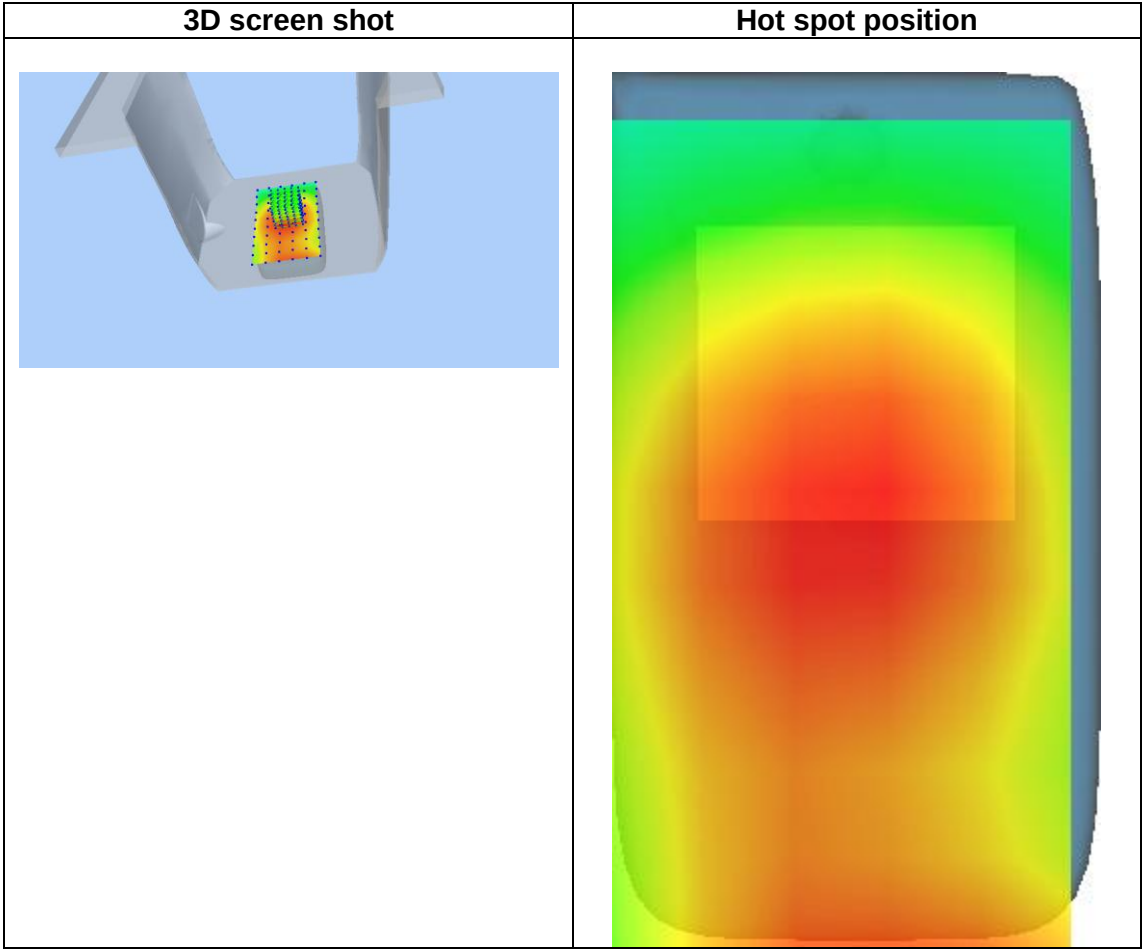
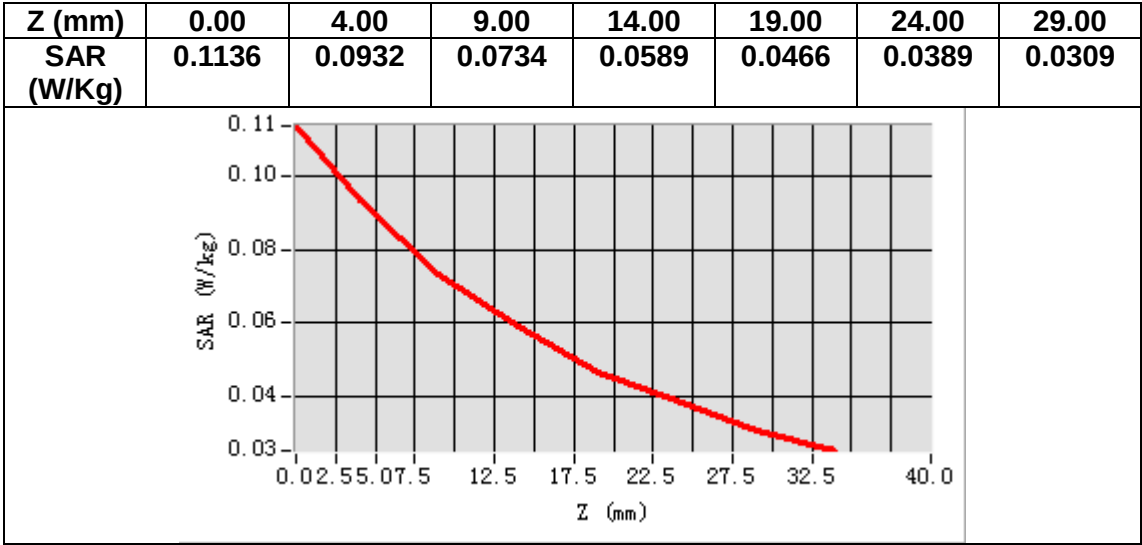
VOLUME SAR



Maximum location: X=1.00, Y=0.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.069123
SAR 1g (W/Kg)	0.090939



MEASUREMENT 35

Date of measurement: 10/1/2024

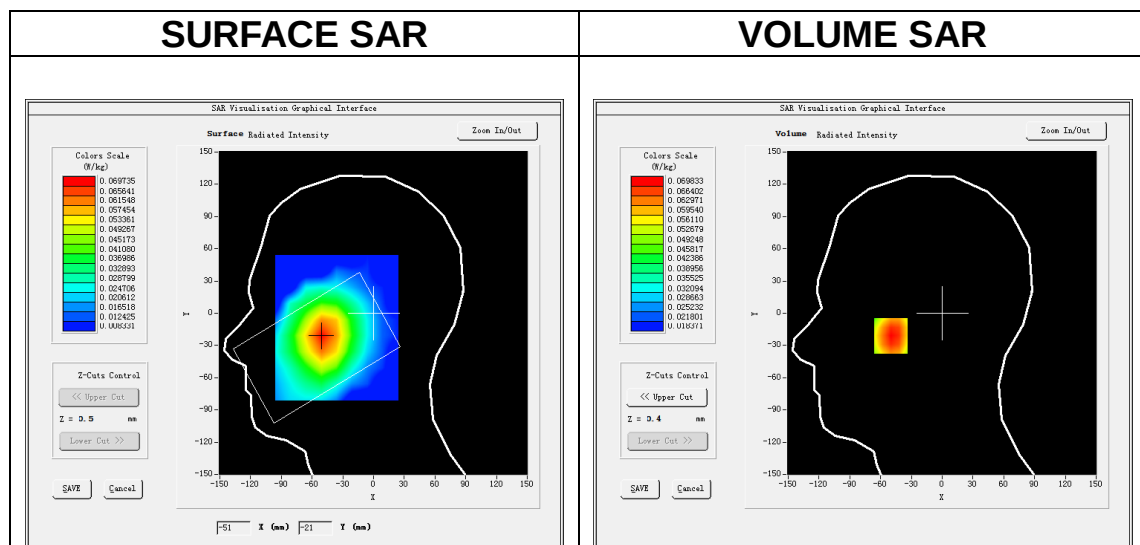
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>FDDBand26B</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

B. SAR Measurement Results

Frequency (MHz)	831.500000
Relative permittivity (real part)	41.318638
Relative permittivity (imaginary part)	19.188629
Conductivity (S/m)	0.886408
Variation (%)	3.530000

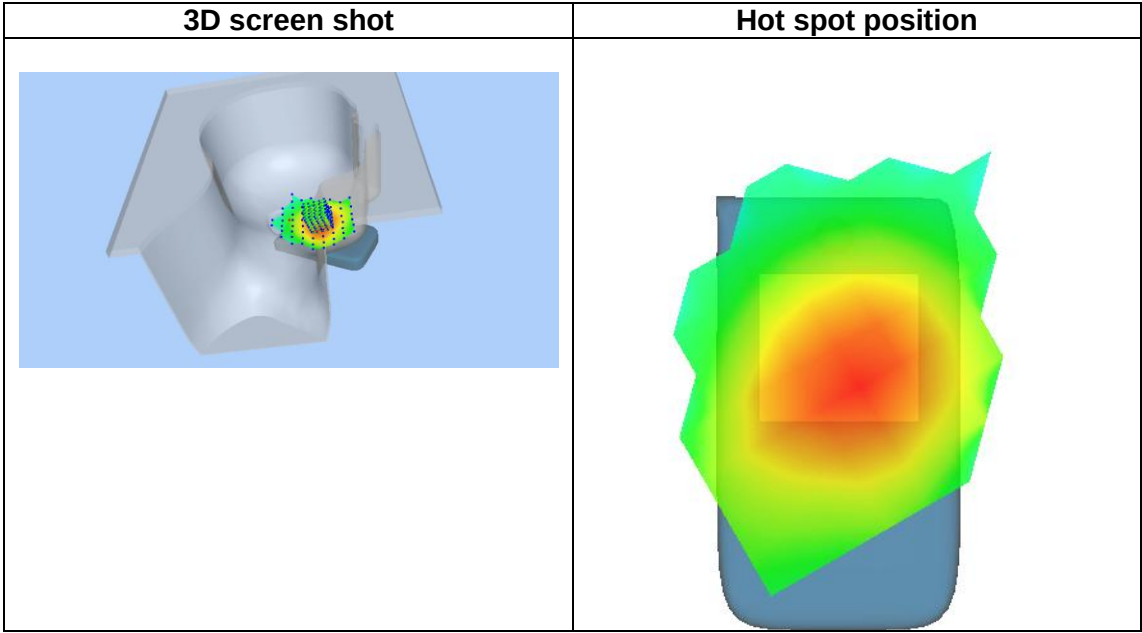
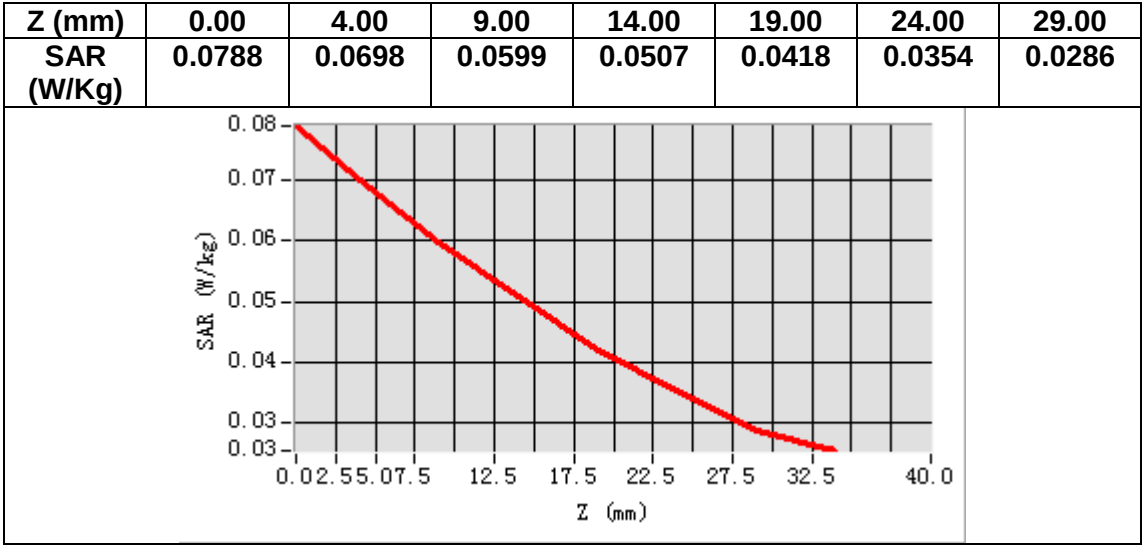
SURFACE SAR



Maximum location: X=-50.00, Y=-21.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.053850
SAR 1g (W/Kg)	0.068146



MEASUREMENT 36

Date of measurement: 10/1/2024

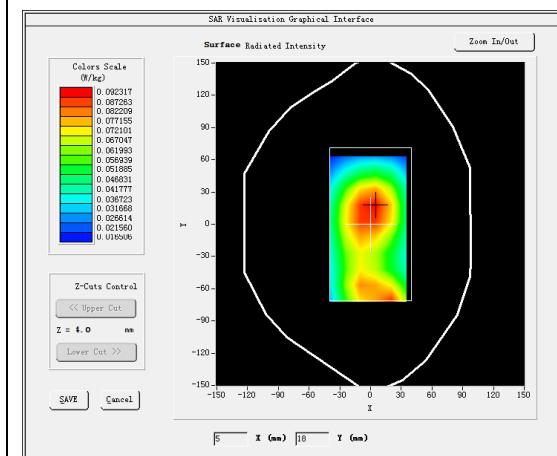
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>FDDBand26B</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.32</u>

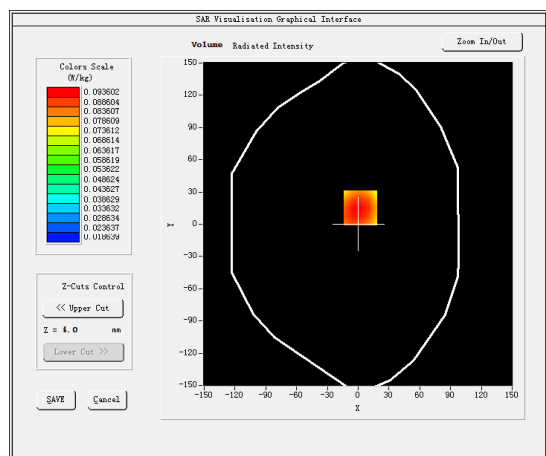
B. SAR Measurement Results

Frequency (MHz)	831.500000
Relative permittivity (real part)	41.318638
Relative permittivity (imaginary part)	19.188629
Conductivity (S/m)	0.886408
Variation (%)	-0.090000

SURFACE SAR



VOLUME SAR



Maximum location: X=2.00, Y=15.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.069877
SAR 1g (W/Kg)	0.091026

