

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013**

Product Name : Mobile Phone

Brand Name : ulefone

Model Name : GQ5013

Family Model : Armor 30 Pro, Armor 30 Ultra, Armor 30T Ultra
Armor 30T Pro, Armor 30 Lite, Armor 30s,
Armor 30s Pro

Report No. : S24120305306001

FCC ID : 2AOWK-5013

Prepared for

Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City,
Guangdong Province China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District,
Shenzhen, Guangdong, People's Republic of China

Tel. 0755-23200050 Website: <http://www.ntek.org.cn>

TEST RESULT CERTIFICATION

Applicant's name.....: Shenzhen Gotron Electronic CO.,LTD.
Address.....: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China
Manufacturer's Name.....: Shenzhen Gotron Electronic CO.,LTD.
Address.....: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China
Product description
Product name.....: Mobile Phone
Brand Name: ulefone
Model and/or type reference .: GQ5013
Family Model.....: Armor 30 Pro, Armor 30 Ultra, Armor 30T Ultra, Armor 30T Pro, Armor 30 Lite, Armor 30s, Armor 30s Pro
FCC 47 CFR Part 2(2.1093)
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). 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 S241203053006

Date of Test

Date (s) of performance of tests.....: Dec.05, 2024~ Dec.26, 2024

Date of Issue.....: Feb.20, 2025

Test Result.....: **Pass**

Prepared By: Owen Xiao
Owen Xiao
(Project Engineer)

Reviewed By: Aaron Cheng
Aaron Cheng
(Supervisor)

Approved By: Alex Li
Alex Li
(Manager)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Feb.20, 2025	Owen Xiao

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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

HEAD 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 GQ5013 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCE	DTS	NII	DSS	
1-g Head		0.195	0.311	0.731	0.105	0.731
1-g Body-Worn (Separation distance of 10mm)		0.757	0.131	0.444	0.053	0.757
1-g Hotspot (Separation distance of 10mm)		0.757	0.177	0.717	0.053	
Max Simultaneous Tx	Head	0.926	0.414	0.926	0.300	0.926
	Body-Worn	1.100	0.826	1.100	0.810	1.100
	Hotspot	1.100	0.826	0.100	0.810	

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 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	Mobile Phone
Brand Name	ulefone
Model Name	GQ5013
Family Model	Armor 30 Pro, Armor 30 Ultra, Armor 30T Ultra, Armor 30T Pro, Armor 30 Lite, Armor 30s, Armor 30s Pro
Model Difference	All models are the same circuit and RF module, except for model names.
FCC ID	2AOWK-5013
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	LDS Antenna
Battery Information	DC 3.87V, 12800mAh, 49.536Wh
HW Version	N/A
SW Version	N/A

Device Operating Configurations			
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/12/17/41/66/71, NR n71,WLAN 2.4G/5G, Bluetooth, NFC		
Test Modulation	GSM(GMSK), WCDMA(QPSK), LTE(QPSK/16QAM), NR(DFT-s-OFDM:PI/2 BPSK/QPSK/16-QAM/64QAM/256QAMCP-OFDM:QPSK/16-QAM/64QAM/256QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK), NFC(ASK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	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 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 41	2496-2690	
	LTE Band 66	1710-1780	2110-2200
	LTE Band 71	663-698	617-652
	NR n71(ENDC is not supported)	663-698	617-652
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
	NFC	13.56	
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 12)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 41)		
	3, tested with power control all Max.(LTE Band 66)		
	3, tested with power control all Max.(LTE Band 71)		

3, tested with power control all Max.(NR SA 71)

1.4. Test specification(s)

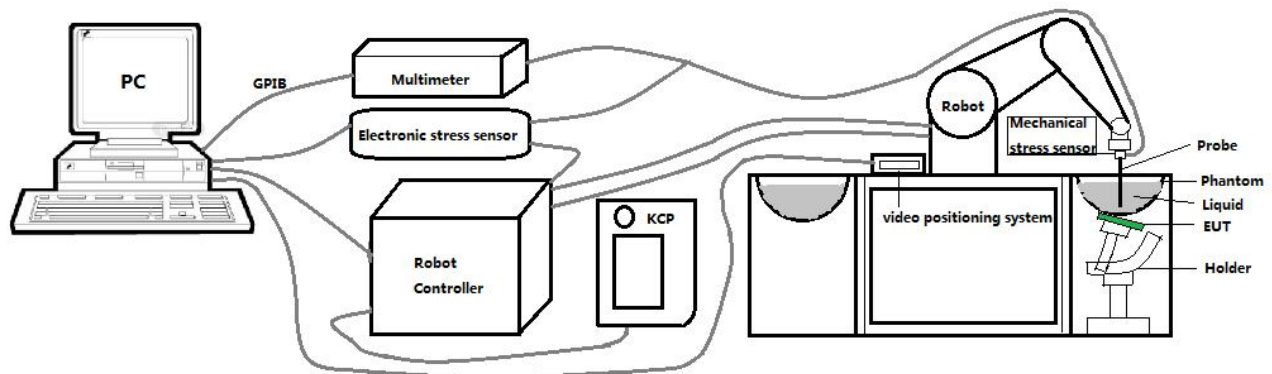
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR
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 4024-EPGO-442 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

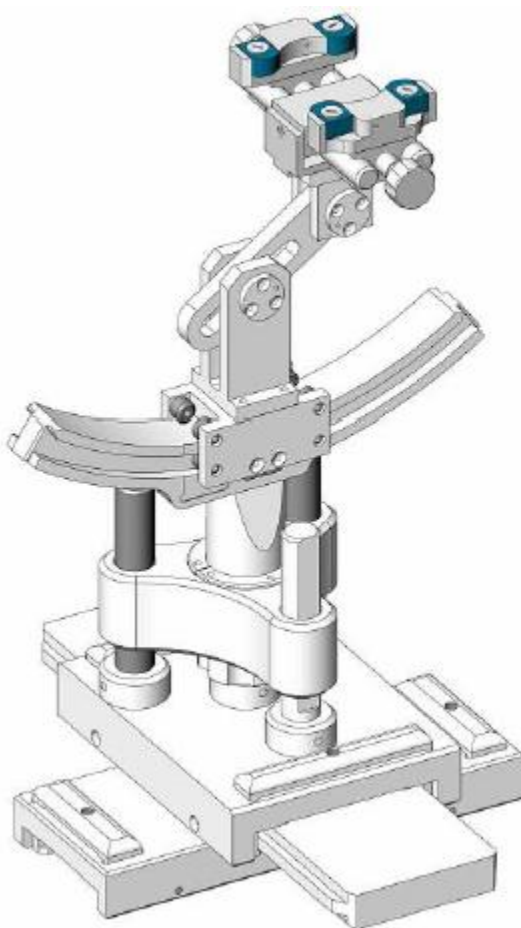


The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Mobile Phones.

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

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	4024-EPGO-442	Oct.4.2024	Oct.3.2025
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	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	Nov. 29, 2024	Nov. 28, 2025
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 26, 2024	Apr. 25, 2025
☒	R&S	Wideband radio communication tester	CMW500	103917	Apr. 26, 2024	Apr. 25, 2025

☒	HP	Network Analyzer	E5071C	LPS-461	Oct. 15, 2024	Oct. 14, 2025
☒	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	2024/7/17	2025/7/16
☒	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	2024/7/17	2025/7/16
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 25, 2024	Apr. 24, 2025
☒	Agilent	Power meter	E4419B	MY45102538	Apr. 25, 2024	Apr. 24, 2025
☒	Agilent	Power sensor	E9301A	LES-413-C	May. 30, 2024	May. 29, 2025
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 25, 2024	Apr. 24, 2025
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	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

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V4_02_31

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: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	≤ 1.5 · $\Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: 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 ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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.

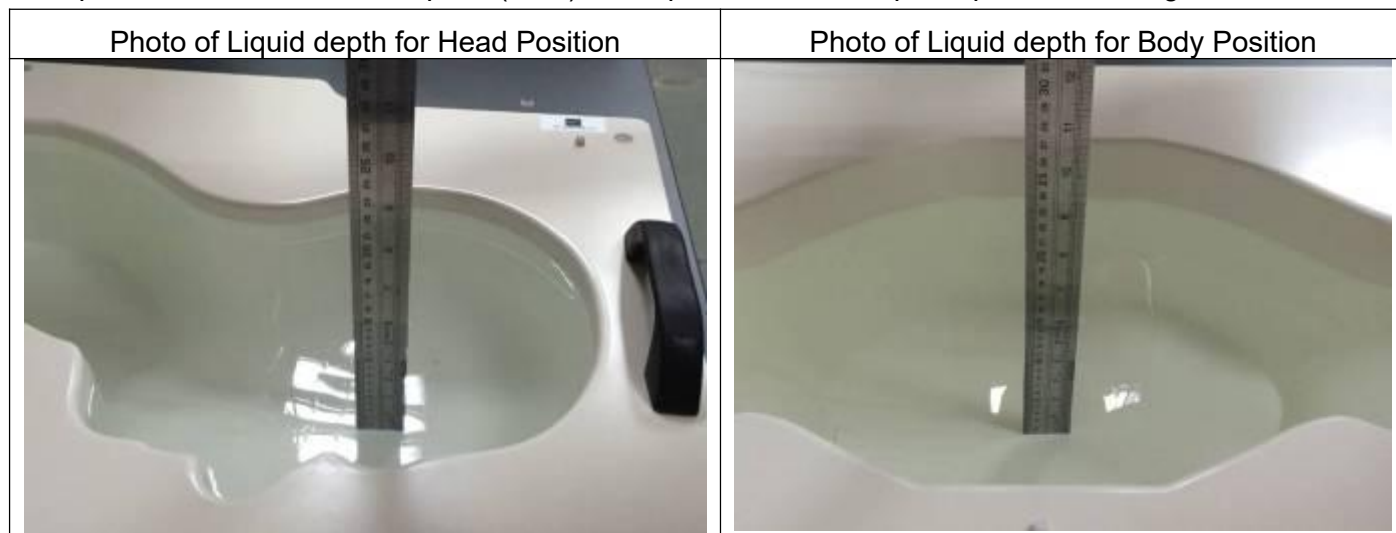
4. System Verification Procedure

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									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
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.

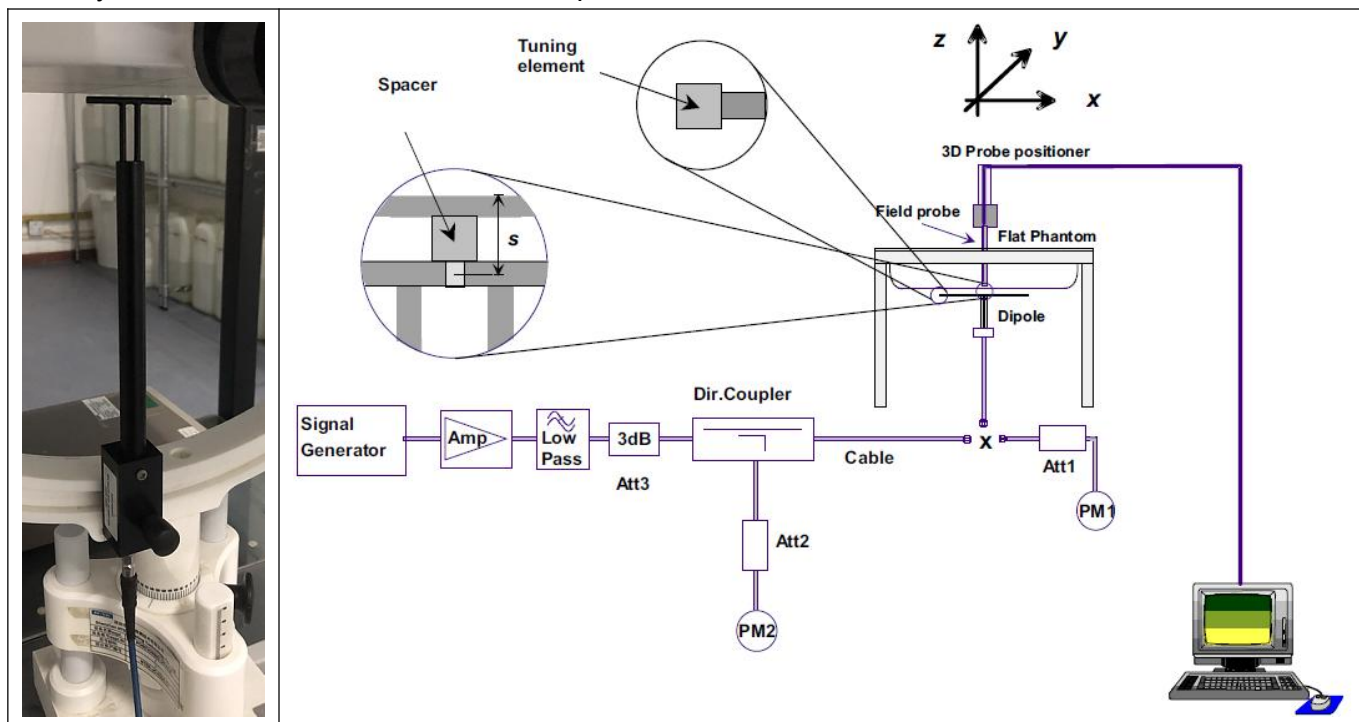
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	$\sigma \text{ (S/m)} (\pm 5\%)$	ϵ_r	$\sigma \text{ (S/m)}$		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.77	0.90	21.6 °C	Dec. 13, 2024
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.83	0.91	21.2 °C	Dec. 11, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.97	1.37	21.5 °C	Dec. 06, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.91	1.37	21.3 °C	Dec. 25, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.46	1.46	21.6 °C	Dec. 09, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.53	1.46	21.4 °C	Dec. 26, 2024
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.81	1.78	21.6 °C	Dec. 12, 2024
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.78	1.97	21.3 °C	Dec. 16, 2024
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	34.65	4.50	21.3 °C	Dec. 11, 2024
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	33.90	5.13	21.2 °C	Dec. 17, 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. 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) ($\pm 10\%$)		Measured SAR			Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/Kg)	10-g (W/Kg)	Input Power	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)		
750MHz	8.60 (7.74~9.46)	5.78 (5.20~6.36)	20dBm	0.905	0.554	9.05	5.54	21.6 °C	Dec. 13, 2024
835MHz	9.40 (8.46~10.34)	6.28 (5.65~6.91)	18dBm	0.595	0.384	9.43	6.09	21.2 °C	Dec. 11, 2024
1800MHz	37.06 (33.35~40.77)	20.01 (18.01~22.01)	18dBm	2.273	1.176	36.02	18.64	21.5 °C	Dec. 06, 2024
1900MHz	39.69 (35.72~43.66)	20.92 (18.83~23.01)	18dBm	2.396	1.181	37.97	18.72	21.6 °C	Dec. 09, 2024
2450MHz	50.05 (45.05~55.06)	23.80 (21.42~26.18)	20dBm	4.962	2.217	49.62	22.17	21.6 °C	Dec. 12, 2024
2600MHz	54.16 (48.74~59.58)	24.85 (22.37~27.34)	20dBm	5.859	2.452	58.59	24.52	21.3 °C	Dec. 16, 2024
5200MHz	162.59 (146.33~178.85)	56.21 (50.59~61.83)	20dBm	15.654	5.450	156.54	54.50	21.3 °C	Dec. 11, 2024
5800MHz	182.20 (163.98~200.42)	61.32 (55.19~67.45)	20dBm	19.065	6.479	190.65	64.79	21.2 °C	Dec. 17, 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.

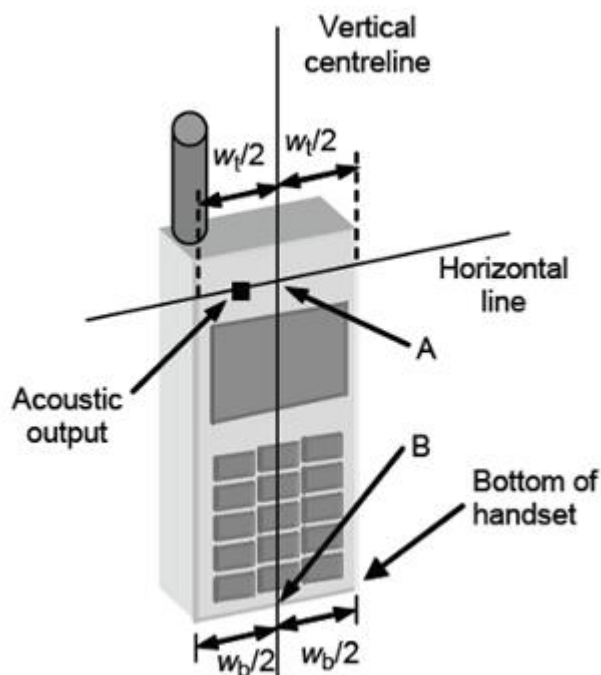


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

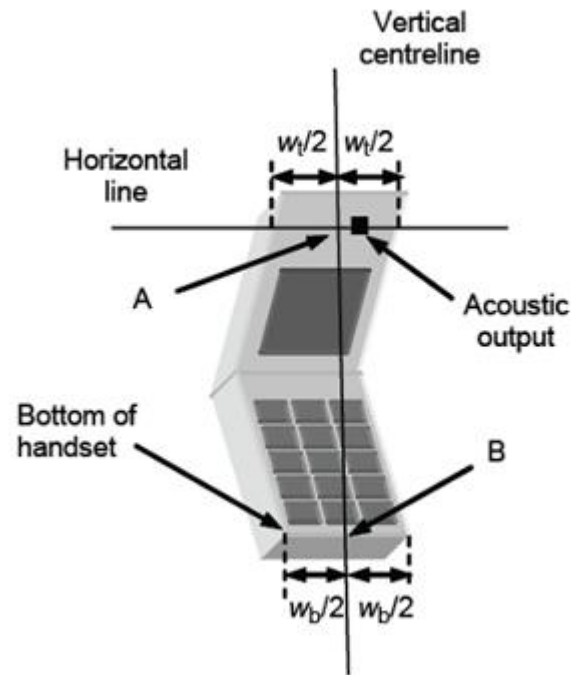


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

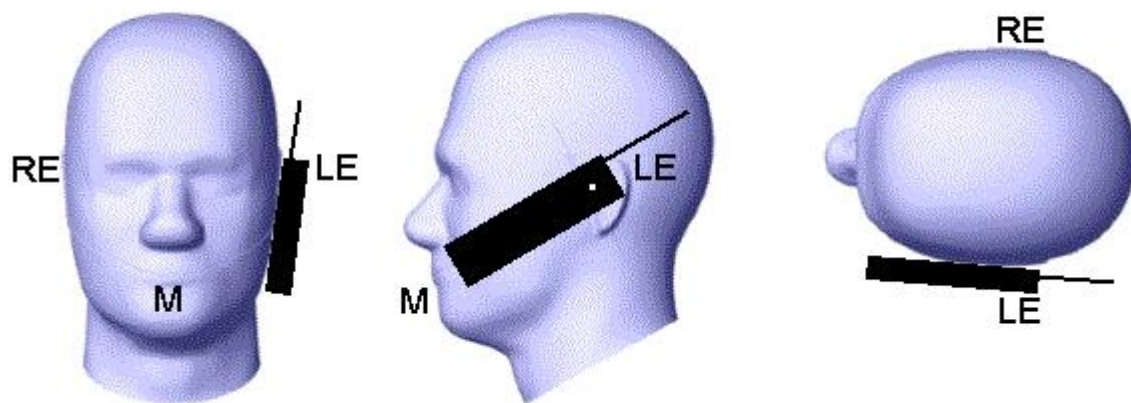


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

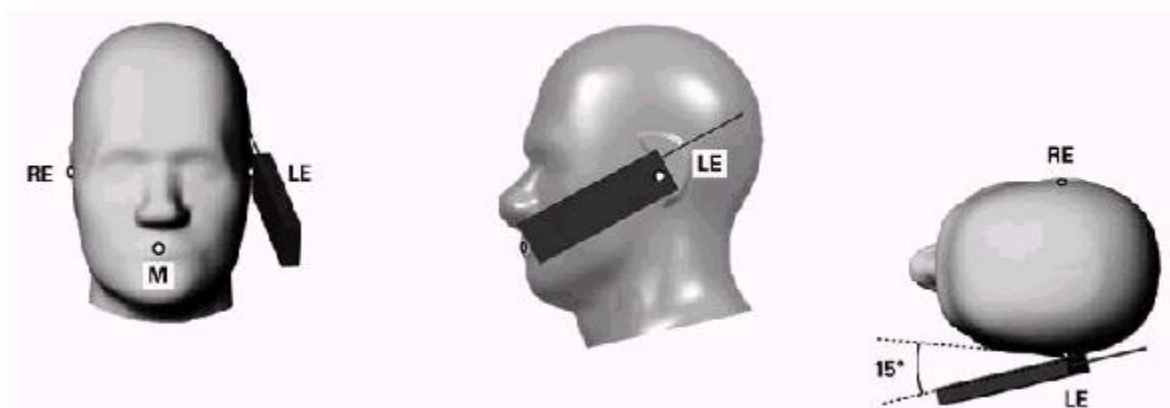


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

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 headset 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 tested 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.

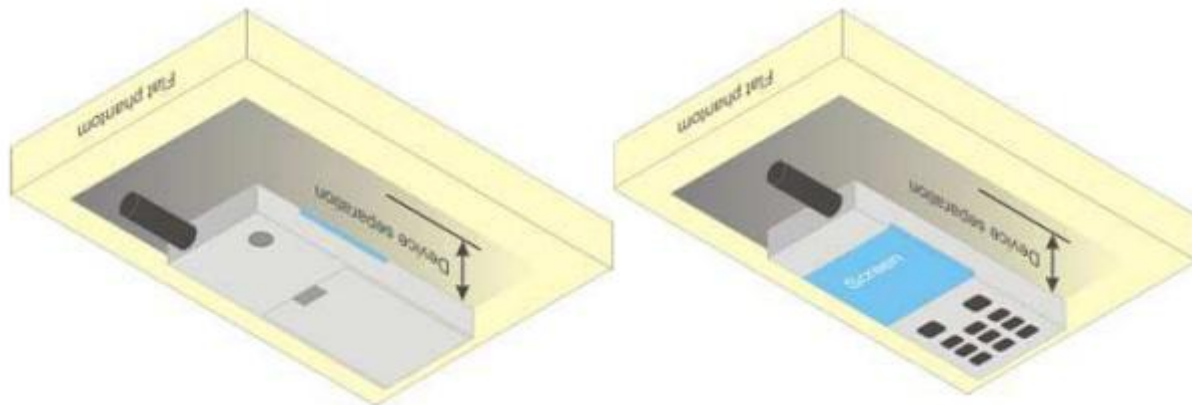


Figure 6.4.1 – Test positions for body-worn devices

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	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	Tune-up	824.2	836.4	848.8
GSM (GMSK)	32.00	31.54	31.55	31.46	22.97	22.51	22.52	22.43
GPRS(GMSK,1 Tx slot)	32.00	31.51	31.53	31.45	22.97	22.48	22.50	22.42
GPRS(GMSK,2 Tx slot)	31.00	30.81	30.65	30.75	24.98	24.79	24.63	24.73
GPRS(GMSK,3 Tx slot)	30.00	29.53	29.57	29.51	25.74	25.27	25.31	25.25
GPRS(GMSK,4 Tx slot)	29.00	28.92	28.99	28.96	25.99	25.91	25.98	25.95
EGPRS(8PSK,1 Tx slot)	32.00	31.27	31.50	31.17	22.97	22.24	22.47	22.14
EGPRS(8PSK,2 Tx slot)	31.00	30.87	30.54	30.66	24.98	24.85	24.52	24.64
EGPRS(8PSK,3 Tx slot)	30.00	29.11	29.51	29.20	25.74	24.85	25.25	24.94
EGPRS(8PSK,4 Tx slot)	28.50	28.34	28.49	28.34	25.49	25.33	25.48	25.33
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880	1909.8	Tune-up	1850.2	1880	1909.8
GSM (GMSK)	30.00	29.61	29.26	28.76	20.97	20.58	20.23	19.73
GPRS(GMSK,1 Tx slot)	30.00	29.55	29.19	28.72	20.97	20.52	20.16	19.69
GPRS(GMSK,2 Tx slot)	29.00	28.59	28.24	27.79	22.98	22.57	22.22	21.77
GPRS(GMSK,3 Tx slot)	27.00	26.91	26.64	26.25	22.74	22.65	22.38	21.99
GPRS(GMSK,4 Tx slot)	26.50	26.38	26.13	25.74	23.49	23.37	23.12	22.73
EGPRS(8PSK,1 Tx slot)	31.00	30.54	30.47	30.29	21.97	21.51	21.44	21.26
EGPRS(8PSK,2 Tx slot)	30.50	30.33	29.90	29.87	24.48	24.31	23.88	23.85
EGPRS(8PSK,3 Tx slot)	29.50	29.05	28.89	29.07	25.24	24.79	24.63	24.81
EGPRS(8PSK,4 Tx slot)	28.50	28.06	27.94	28.05	25.49	25.05	24.93	25.04

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)	(dBm)	1852.4	1880	1907.6
RMC12.2K	23.50	23.18	23.22	23.26
HSDPA Sub 1	22.50	22.31	22.34	22.35
HSDPA Sub 2	22.50	22.02	21.92	21.95

HSDPA Sub 3	21.00	20.82	20.81	20.94
HSDPA Sub 4	21.00	20.81	20.85	20.47
HSUPA Sub 1	22.50	21.07	22.10	22.12
HSUPA Sub 2	22.50	22.18	22.24	22.29
HSUPA Sub 3	21.00	20.56	20.93	20.77
HSUPA Sub 4	22.50	22.21	22.26	22.30
HSUPA Sub 5	22.00	20.59	21.39	21.59
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	23.50	23.37	23.47	23.41
HSDPA Sub 1	23.00	22.59	22.50	22.47
HSDPA Sub 2	22.50	22.34	21.99	22.00
HSDPA Sub 3	21.50	21.12	20.96	21.18
HSDPA Sub 4	21.50	21.47	20.83	21.24
HSUPA Sub 1	22.50	22.11	22.38	22.29
HSUPA Sub 2	22.50	22.47	22.38	22.37
HSUPA Sub 3	21.50	20.74	21.27	21.25
HSUPA Sub 4	23.00	22.59	22.49	22.47
HSUPA Sub 5	22.00	20.96	21.73	21.88
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	23.01	22.87	22.82
HSDPA Sub 1	22.50	22.03	21.90	21.86
HSDPA Sub 2	22.00	21.61	21.58	21.33
HSDPA Sub 3	21.00	20.91	20.62	20.60
HSDPA Sub 4	21.00	20.20	20.77	19.86
HSUPA Sub 1	22.00	21.01	21.76	21.68
HSUPA Sub 2	22.50	22.05	21.74	21.74
HSUPA Sub 3	21.00	20.18	20.85	20.94
HSUPA Sub 4	22.50	22.06	21.91	21.86
HSUPA Sub 5	21.50	20.64	21.25	21.23

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	23.50	23.38	23.39	23.29
			1	2	23.50	23.40	23.45	23.20
			1	5	23.50	23.35	23.43	23.34
			3	0	23.50	23.43	23.44	23.30
			3	1	23.50	23.32	23.35	23.29
			3	2	23.50	23.34	23.39	23.29
			6	0	22.50	22.36	22.42	22.36
		16QAM	1	0	23.00	22.54	22.72	22.45
			1	2	23.00	22.56	22.64	22.58
			1	5	23.00	22.55	22.71	22.51
			3	0	22.50	22.34	22.38	22.30
			3	1	22.50	22.36	22.32	22.29
			3	2	22.50	22.39	22.32	22.30
			6	0	21.50	21.42	21.47	21.39
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	23.50	23.42	23.43	23.25
			1	7	23.50	23.25	23.43	23.24
			1	14	23.50	23.26	23.39	23.25
			8	0	22.50	22.33	22.47	22.30
			8	4	22.50	22.31	22.43	22.29
			8	7	22.50	22.35	22.43	22.33
			15	0	22.50	22.34	22.45	22.36
		16QAM	1	0	23.00	22.65	22.66	22.51
			1	7	23.00	22.49	22.70	22.52
			1	14	23.00	22.52	22.63	22.64
			8	0	22.00	21.49	21.55	21.36
			8	4	22.00	21.41	21.53	21.38
			8	7	22.00	21.40	21.54	21.41
			15	0	21.50	21.38	21.45	21.33
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	5MHz	QPSK	1	0	24.00	23.47	23.58	23.13

Band 2			1	12	24.00	23.27	23.49	23.35
			1	24	24.00	23.26	23.44	23.35
			12	0	23.00	22.44	22.55	22.34
			12	6	23.00	22.42	22.51	22.32
			12	11	23.00	22.37	22.51	22.43
			25	0	23.00	22.42	22.54	22.38
		16QAM	1	0	23.00	22.69	22.73	22.44
			1	12	23.00	22.55	22.71	22.49
			1	24	23.00	22.46	22.78	22.65
			12	0	22.00	21.45	21.58	21.30
			12	6	22.00	21.41	21.54	21.35
			12	11	22.00	21.39	21.49	21.39
			25	0	22.00	21.44	21.56	21.36
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	23.50	23.43	21.63	21.11
			1	24	23.50	23.22	21.49	21.25
			1	49	23.50	23.29	21.44	21.47
			25	0	22.50	22.39	21.54	21.19
			25	12	22.50	22.33	21.49	20.34
			25	24	22.50	22.32	21.46	20.40
			50	0	22.50	22.40	21.50	20.34
		16QAM	1	0	23.00	22.65	21.78	20.44
			1	24	23.00	22.45	21.84	20.61
			1	49	23.00	22.63	21.71	20.87
			25	0	22.00	21.40	21.54	20.31
			25	12	22.00	21.29	21.49	20.33
			25	24	22.00	21.33	21.44	20.40
			50	0	21.50	21.37	21.49	20.35
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 2	15MHz	QPSK	1	0	21.00	20.55	20.52	20.14
			1	37	21.00	20.35	20.59	20.24
			1	74	21.00	20.35	20.34	20.51
			36	0	21.00	20.39	20.53	20.13
			36	18	21.00	20.29	20.52	20.21
			36	37	21.00	20.31	20.40	20.33

		16QAM	75	0	20.50	20.35	20.48	20.23
			1	0	21.00	20.78	20.86	20.35
			1	37	21.00	20.68	20.78	20.57
			1	74	21.00	20.64	20.57	20.82
			36	0	21.00	20.40	20.54	20.13
			36	18	21.00	20.31	20.49	20.24
			36	37	21.00	20.31	20.43	20.34
			75	0	20.50	20.36	20.47	20.26
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
Band	Band Width	Modulation	RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.00	23.52	23.42	23.46
			1	49	24.00	23.42	23.49	23.26
			1	99	24.00	23.37	23.43	23.37
			50	0	23.50	23.42	23.47	23.38
			50	24	23.50	23.37	23.31	23.42
			50	49	23.50	23.39	23.43	23.35
			100	0	22.50	22.48	22.48	22.37
		16QAM	1	0	23.00	22.52	22.73	22.85
			1	49	23.00	22.65	22.66	22.42
			1	99	23.00	22.56	22.79	22.61
			50	0	22.50	22.48	22.28	22.32
			50	24	22.50	22.47	22.45	22.48
			50	49	22.50	22.49	22.38	22.34
			100	0	22.00	21.85	21.74	21.69

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	21.50	21.18	20.92	21.22
			1	2	21.50	21.05	21.04	21.12
			1	5	21.50	21.16	21.17	21.06
			3	0	21.50	21.13	21.06	21.25
			3	1	21.50	21.11	21.06	21.21
			3	2	21.50	21.17	21.10	21.15
			6	0	21.50	21.18	21.06	21.19
		16QAM	1	0	22.00	21.29	21.23	21.50
			1	2	22.00	21.40	21.41	21.38
			1	5	22.00	21.40	21.36	21.39
			3	0	21.50	21.12	21.01	21.22

			3	1	21.50	21.09	21.06	21.20
			3	2	21.50	21.14	21.10	21.15
			6	0	21.50	21.15	21.05	21.19
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	21.00	20.96	20.89	20.75
			1	7	21.00	20.92	20.98	20.71
			1	14	21.00	20.91	20.97	20.66
			8	0	21.00	20.97	20.90	20.72
			8	4	21.00	20.94	20.89	20.70
			8	7	21.00	20.98	20.92	20.71
			15	0	21.00	20.97	20.93	20.72
		16QAM	1	0	21.50	21.23	21.15	20.95
			1	7	21.50	21.15	21.22	21.00
			1	14	21.50	21.18	21.14	20.96
			8	0	21.50	21.06	21.01	20.76
			8	4	21.50	21.03	21.01	20.76
			8	7	21.50	21.05	21.01	20.78
			15	0	21.50	21.01	20.96	20.75
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	21.00	20.97	20.96	20.80
			1	12	21.00	20.99	20.99	20.77
			1	24	21.00	20.96	21.00	20.71
			12	0	21.50	21.02	20.99	20.84
			12	6	21.50	21.02	20.98	20.76
			12	11	21.50	21.01	21.00	20.81
			25	0	21.50	21.03	20.98	20.81
		16QAM	1	0	21.50	21.29	21.18	21.06
			1	12	21.50	21.16	21.19	21.10
			1	24	21.50	21.20	21.27	20.91
			12	0	21.50	21.07	20.98	20.85
			12	6	21.50	21.03	21.02	20.80
			12	11	21.50	21.01	21.01	20.80
			25	0	21.50	21.03	21.04	20.83
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	21.50	21.00	20.97	20.99
			1	24	21.50	20.90	20.92	20.82
			1	49	21.50	20.97	21.07	20.77
			25	0	21.50	21.01	20.93	20.93
			25	12	21.50	20.96	20.94	20.82
			25	24	21.50	20.97	20.99	20.80
			50	0	21.00	20.99	20.95	20.86
		16QAM	1	0	21.50	21.16	21.30	21.18
			1	24	21.50	21.19	21.17	21.12
			1	49	21.50	21.11	21.25	21.11
			25	0	21.50	21.00	20.95	20.91
			25	12	21.50	20.96	20.96	20.81
			25	24	21.50	20.98	21.01	20.82
			50	0	21.00	20.99	20.98	20.87
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	21.50	21.03	20.93	21.01
			1	37	21.50	20.94	20.94	20.90
			1	74	21.50	20.96	21.09	20.77
			36	0	21.00	20.98	20.93	20.95
			36	18	21.00	20.94	20.92	20.88
			36	37	21.00	20.93	20.97	20.84
			75	0	21.00	20.96	20.97	20.91
		16QAM	1	0	21.50	21.27	21.26	21.19
			1	37	21.50	21.27	21.27	21.19
			1	74	21.50	21.26	21.33	20.96
			36	0	21.00	20.96	20.92	20.93
			36	18	21.00	20.92	20.94	20.87
			36	37	21.00	20.93	20.98	20.85
			75	0	21.00	20.98	20.99	20.94
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	24.38	23.76	23.53
			1	49	24.50	23.84	23.75	23.59
			1	99	24.50	23.78	23.76	22.68

			50	0	24.00	23.83	23.81	22.56
			50	24	24.00	23.84	23.77	22.35
			50	49	24.00	23.94	23.81	22.34
			100	0	23.00	22.94	22.85	21.62
		16QAM	1	0	24.00	23.12	23.24	21.84
			1	49	24.00	23.51	22.98	21.92
			1	99	24.00	23.14	23.16	21.45
			50	0	23.50	22.82	22.86	21.12
			50	24	23.50	23.06	23.11	21.54
			50	49	23.50	22.48	22.49	21.14
			100	0	22.00	21.76	21.85	20.69

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	22.50	22.26	22.31	22.31
			1	2	22.50	22.34	22.36	22.26
			1	5	22.50	22.42	22.16	22.11
			3	0	22.50	22.35	22.39	22.34
			3	1	22.50	22.37	22.35	22.28
			3	2	22.50	22.39	22.28	22.19
			6	0	22.50	22.37	22.36	22.26
		16QAM	1	0	23.00	22.50	22.53	22.61
			1	2	23.00	22.56	22.54	22.46
			1	5	23.00	22.64	22.44	22.39
			3	0	22.50	22.37	22.41	22.46
			3	1	22.50	22.41	22.37	22.40
			3	2	22.50	22.41	22.31	22.29
			6	0	22.50	22.36	22.35	22.39
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	24.50	24.15	24.25	23.97
			1	7	24.50	24.09	24.19	23.94
			1	14	24.50	24.15	24.12	23.88
			8	0	23.50	23.15	23.19	23.02
			8	4	23.50	23.13	23.19	22.97
			8	7	23.50	23.17	23.18	21.98
			15	0	23.50	23.19	23.19	21.99
		16QAM	1	0	23.50	23.33	23.37	22.16

			1	7	23.50	23.40	23.47	22.14
			1	14	23.50	23.45	23.38	22.21
			8	0	22.50	22.23	22.32	22.11
			8	4	22.50	22.19	22.25	22.05
			8	7	22.50	22.24	22.25	22.03
			15	0	22.50	22.20	22.22	22.01
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	22.50	22.21	22.32	22.11
			1	12	22.50	22.19	22.23	21.98
			1	24	22.50	22.23	22.22	22.02
			12	0	22.50	22.24	22.30	22.14
			12	6	22.50	22.21	22.26	22.07
			12	11	22.50	22.21	22.23	22.02
			25	0	22.50	22.23	22.27	22.07
		16QAM	1	0	22.50	22.39	22.48	22.44
			1	12	22.50	22.44	22.48	22.28
			1	24	22.50	22.38	22.43	22.29
			12	0	22.50	22.26	22.30	22.16
			12	6	22.50	22.23	22.26	22.09
			12	11	22.50	22.28	22.26	22.02
			25	0	22.50	22.27	22.25	22.11
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 5	10MHz	QPSK	1	0	24.50	24.35	24.12	23.89
			1	24	24.50	24.16	24.13	23.92
			1	49	24.50	24.14	24.08	23.95
			25	0	24.50	24.25	24.13	23.95
			25	12	24.50	24.16	24.10	23.97
			25	24	24.50	24.22	24.09	23.97
			50	0	23.50	23.16	23.16	22.97
		16QAM	1	0	23.50	23.26	23.34	23.06
			1	24	23.50	23.36	23.42	23.13
			1	49	23.50	23.45	23.44	23.14
			25	0	23.50	23.13	23.12	22.91
			25	12	23.50	23.19	23.19	22.98
			25	24	23.50	23.28	23.14	22.90

			50	0	22.50	22.24	22.27	22.12
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	24.50	24.01	23.88	23.83
			1	2	24.50	24.00	23.78	23.87
			1	5	24.50	23.96	23.83	23.85
			3	0	24.50	23.94	23.79	23.86
			3	1	24.50	24.00	23.74	23.86
			3	2	24.50	24.01	23.80	23.86
			6	0	23.00	22.97	22.81	22.90
		16QAM	1	0	23.50	23.17	23.14	23.20
			1	2	23.50	23.12	23.02	23.17
			1	5	23.50	23.16	23.11	23.03
			3	0	23.00	22.98	22.75	22.85
			3	1	23.00	22.93	22.81	22.87
			3	2	23.00	22.93	22.78	22.88
			6	0	22.00	22.00	21.91	21.95
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	24.50	24.01	23.90	23.89
			1	7	24.50	23.87	23.88	23.81
			1	14	24.50	23.85	23.78	23.89
			8	0	23.00	22.93	22.84	22.95
			8	4	23.00	22.91	22.83	22.85
			8	7	23.00	22.92	22.81	22.89
			15	0	23.00	22.94	22.84	22.91
		16QAM	1	0	23.50	23.13	23.04	23.12
			1	7	23.50	23.13	23.03	23.14
			1	14	23.50	22.99	23.05	23.11
			8	0	22.50	22.00	21.94	21.98
			8	4	22.50	22.01	21.90	21.97
			8	7	22.50	21.99	21.91	21.93
			15	0	22.00	21.97	21.84	21.88
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	5MHz	QPSK	1	0	24.50	24.01	23.94	23.83

Band 12			1	12	24.50	23.97	23.85	23.84
			1	24	24.50	23.98	23.83	23.92
			12	0	23.50	23.02	22.94	22.93
			12	6	23.50	22.97	22.90	22.89
			12	11	23.50	22.97	22.85	22.89
			25	0	23.00	22.98	22.94	22.94
		16QAM	1	0	23.50	23.28	23.16	23.07
			1	12	23.50	23.19	23.05	23.13
			1	24	23.50	23.20	23.13	23.13
			12	0	22.50	22.06	21.99	21.97
			12	6	22.50	22.02	21.92	21.92
			12	11	22.50	21.99	21.90	21.96
			25	0	22.00	21.98	21.93	21.93
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	24.50	23.95	23.93	23.90
			1	24	24.50	24.01	23.96	23.89
			1	49	24.50	23.79	23.87	23.83
			25	0	23.50	22.96	23.02	22.90
			25	12	23.50	22.96	22.92	22.90
			25	24	23.50	22.90	22.87	22.88
			50	0	23.00	22.93	22.95	22.89
		16QAM	1	0	23.50	23.21	23.22	23.10
			1	24	23.50	23.21	23.14	23.15
			1	49	23.50	23.04	23.05	23.05
			25	0	22.00	21.97	22.00	21.90
			25	12	22.00	21.95	21.92	21.91
			25	24	22.00	21.89	21.87	21.90
			50	0	22.00	21.95	21.97	21.88

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	24.00	23.92	23.95	23.85
			1	12	24.00	23.90	23.82	23.84
			1	24	24.00	23.89	23.90	23.90
			12	0	23.00	22.92	22.93	22.93
			12	6	23.00	22.91	22.89	22.91

			12	11	23.00	22.89	22.88	22.85
			25	0	23.00	22.95	22.91	22.92
		16QAM	1	0	23.50	23.18	23.12	23.14
			1	12	23.50	23.18	23.07	23.18
			1	24	23.50	23.22	23.12	23.14
			12	0	22.00	21.98	21.87	21.94
			12	6	22.00	21.95	21.88	21.93
			12	11	22.00	21.91	21.86	21.88
			25	0	22.00	21.92	21.92	21.96
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	24.00	23.87	23.90	23.91
			1	24	24.00	23.93	23.87	23.86
			1	49	24.00	23.86	23.87	23.84
			25	0	23.00	22.93	22.95	22.91
			25	12	23.00	22.91	22.92	22.89
			25	24	23.00	22.87	22.90	22.86
			50	0	23.00	22.92	22.91	22.89
		16QAM	1	0	23.50	23.11	23.11	23.26
			1	24	23.50	23.18	23.17	23.13
			1	49	23.50	23.14	23.08	23.06
			25	0	22.00	21.93	21.96	21.90
			25	12	22.00	21.93	21.92	21.89
			25	24	22.00	21.88	21.88	21.87
			50	0	22.00	21.94	21.94	21.87

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39675/2498.5	40148/2546	40620/2593	41093/2640	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	24.50	23.99	23.60	24.20	24.04	24.10
			1	12	24.50	23.85	23.64	24.16	24.06	23.66
			1	24	24.50	23.77	23.80	24.16	23.92	23.48
			12	0	23.50	22.98	23.18	23.25	23.10	23.28
			12	6	23.50	23.01	23.04	23.22	23.16	23.29
			12	11	23.50	23.00	23.18	23.21	22.98	23.27
			25	0	23.50	23.01	23.17	23.25	23.22	23.28
		16QAM	1	0	23.50	23.09	23.11	23.42	23.25	23.40
			1	12	23.50	23.11	23.14	23.39	23.18	23.42

			1	24	23.50	23.13	23.26	23.36	23.24	23.40
			12	0	22.50	22.02	22.28	22.31	22.09	22.34
			12	6	22.50	22.03	22.16	22.26	22.03	22.35
			12	11	22.50	22.02	22.03	22.26	22.12	22.32
			25	0	22.50	22.06	22.12	22.31	22.17	22.34
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39700/2501	40160/2547	40620/2593	41080/2639	41540/2685
LTE Band 41	10MHz	QPSK	1	0	24.50	23.51	23.40	24.01	23.36	23.76
			1	24	24.50	23.50	23.26	24.07	23.79	23.69
			1	49	24.50	23.25	23.78	23.97	23.42	23.34
			25	0	23.50	22.99	23.08	23.30	23.19	23.26
			25	12	23.50	22.99	23.03	23.24	23.30	23.26
			25	24	23.50	22.96	23.03	23.18	23.15	23.24
			50	0	23.50	22.99	23.11	23.25	23.12	23.27
		16QAM	1	0	23.50	23.12	23.35	23.47	23.25	23.40
			1	24	23.50	23.14	23.23	23.42	23.20	23.40
			1	49	23.50	23.12	23.28	23.30	23.27	23.37
			25	0	22.50	22.05	22.10	22.35	22.01	22.32
			25	12	22.50	22.03	22.25	22.28	22.35	22.31
			25	24	22.50	21.99	22.10	22.23	22.01	22.29
			50	0	22.50	22.03	22.22	22.31	22.20	22.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39725/2503.5	40173/2548	40620/2593	41068/2638	41515/2682.5
LTE Band 41	15MHz	QPSK	1	0	24.50	23.67	23.72	24.10	23.48	23.81
			1	37	24.50	23.50	24.16	24.16	23.42	23.73
			1	74	24.50	23.10	23.42	24.06	24.01	23.31
			36	0	23.50	23.02	23.29	23.34	23.02	23.13
			36	18	23.50	23.01	23.10	23.27	23.02	23.13
			36	37	23.50	23.01	23.03	23.20	23.02	23.15
			75	0	23.50	23.02	23.14	23.28	23.17	23.18
		16QAM	1	0	24.00	23.14	23.20	23.52	23.44	23.25
			1	37	24.00	23.15	23.51	23.44	23.14	23.32
			1	74	24.00	23.18	23.30	23.34	23.50	23.28
			36	0	22.50	22.02	22.28	22.33	22.33	22.13
			36	18	22.50	22.03	22.31	22.26	22.33	22.14

			36	37	22.50	22.00	22.27	22.20	22.22	22.17
			75	0	22.50	22.06	22.30	22.33	22.16	22.22
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39750/2506	40185/2549.5	40620/2593	39650/2636.5	41490/2680
LTE Band 41	20MHz	QPSK	1	0	24.00	23.44	23.40	23.92	23.84	23.62
			1	49	24.00	23.09	23.17	23.98	23.49	23.55
			1	99	24.00	22.97	23.62	23.88	23.38	23.13
			50	0	23.50	23.08	23.00	23.41	23.20	23.16
			50	24	23.50	23.06	23.03	23.32	23.29	23.16
			50	49	23.50	22.99	23.27	23.24	23.10	23.19
			100	0	23.50	23.07	23.32	23.32	23.31	23.18
		16QAM	1	0	24.00	23.17	23.25	23.56	23.44	23.30
			1	49	24.00	23.17	23.25	23.45	23.34	23.32
			1	99	24.00	23.11	23.36	23.38	23.12	23.24
			50	0	22.50	22.11	22.20	22.43	22.23	22.21
			50	24	22.50	22.11	22.29	22.36	22.40	22.21
			50	49	22.50	22.11	22.18	22.28	22.34	22.22
			100	0	22.50	22.08	22.09	22.33	22.24	22.21

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	24.00	23.84	23.73	23.78
			1	2	24.00	23.69	23.74	23.82
			1	5	24.00	23.82	23.75	23.75
			3	0	24.00	23.71	23.69	23.81
			3	1	24.00	23.73	23.63	23.79
			3	2	24.00	23.77	23.67	23.79
			6	0	23.00	22.80	22.75	22.87
		16QAM	1	0	23.50	22.93	22.95	23.05
			1	2	23.50	22.91	22.91	23.05
			1	5	23.50	23.00	22.99	22.92
			3	0	23.00	22.88	22.81	22.82
			3	1	23.00	22.84	22.83	22.77
			3	2	23.00	22.86	22.84	22.91
			6	0	22.00	21.83	21.80	21.91

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	24.00	23.72	23.74	23.75
			1	7	24.00	23.73	23.70	23.72
			1	14	24.00	23.70	23.79	23.76
			8	0	23.00	22.82	22.82	22.83
			8	4	23.00	22.79	22.78	22.89
			8	7	23.00	22.80	22.79	22.85
			15	0	23.00	22.78	22.81	22.85
		16QAM	1	0	23.50	22.85	23.08	22.96
			1	7	23.50	22.87	22.98	22.89
			1	14	23.50	22.95	22.99	23.05
			8	0	22.00	21.89	21.90	21.94
			8	4	22.00	21.92	21.86	21.96
			8	7	22.00	21.87	21.81	21.98
			15	0	22.00	21.83	21.81	21.92
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	24.00	23.85	23.80	23.81
			1	12	24.00	23.78	23.79	23.83
			1	24	24.00	23.90	23.80	23.87
			12	0	23.00	22.89	22.92	22.96
			12	6	23.00	22.91	22.86	22.94
			12	11	23.00	22.89	22.84	23.00
			25	0	23.00	22.92	22.89	22.98
		16QAM	1	0	23.50	22.97	22.98	23.11
			1	12	23.50	23.06	22.97	23.07
			1	24	23.50	23.09	23.09	23.01
			12	0	22.50	21.91	21.92	21.96
			12	6	22.50	21.91	21.89	21.95
			12	11	22.50	21.93	21.87	22.01
			25	0	22.50	21.92	21.91	22.01
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	24.00	23.86	23.88	23.76
			1	24	24.00	23.76	23.89	23.82
			1	49	24.00	23.79	23.77	23.96
			25	0	23.00	22.92	22.94	22.91
			25	12	23.00	22.88	22.83	22.93
			25	24	23.00	22.89	22.84	22.98
			50	0	23.00	22.90	22.88	22.94
		16QAM	1	0	23.50	23.00	23.05	23.00
			1	24	23.50	22.97	23.02	23.09
			1	49	23.50	23.13	23.04	23.16
			25	0	22.00	21.91	21.93	21.94
			25	12	22.00	21.86	21.84	21.95
			25	24	22.00	21.88	21.82	21.97
			50	0	22.00	21.88	21.89	21.95
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	24.00	23.87	23.86	23.57
			1	37	24.00	23.79	23.78	23.71
			1	74	24.00	23.76	23.80	23.86
			36	0	23.00	22.87	22.89	22.68
			36	18	23.00	22.81	22.83	22.76
			36	37	23.00	22.84	22.79	22.80
			75	0	23.00	22.88	22.87	22.77
		16QAM	1	0	23.50	22.96	23.13	22.81
			1	37	23.50	23.09	23.10	22.91
			1	74	23.50	23.04	23.08	23.00
			36	0	22.00	21.89	21.93	21.69
			36	18	22.00	21.83	21.84	21.77
			36	37	22.00	21.86	21.79	21.84
			75	0	22.00	21.90	21.88	21.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE	20MHz	QPSK	1	0	24.00	23.81	23.81	23.47

Band 66			1	49	24.00	23.84	23.83	23.65
			1	99	24.00	23.86	23.69	23.83
			50	0	23.00	22.92	22.98	22.72
			50	24	23.00	22.89	22.88	22.80
			50	49	23.00	22.91	22.85	22.85
			100	0	23.00	22.90	22.94	22.74
		16QAM	1	0	23.50	23.09	23.06	22.78
			1	49	23.50	23.05	23.00	22.77
			1	99	23.50	23.09	23.01	23.16
			50	0	22.00	21.90	21.99	21.73
			50	24	22.00	21.88	21.91	21.80
			50	49	22.00	21.90	21.85	21.85
			100	0	22.00	21.89	21.91	21.75

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133147/665.5	133297/680.5	133447/695.5
LTE Band 71	5MHz	QPSK	1	0	24.50	24.06	23.80	24.04
			1	12	24.50	23.97	23.82	23.99
			1	24	24.50	23.95	23.87	24.01
			12	0	23.50	23.03	22.86	23.11
			12	6	23.50	23.00	22.85	23.07
			12	11	23.50	23.01	22.85	23.05
			25	0	23.50	23.03	22.86	23.06
		16QAM	1	0	23.50	23.31	23.09	23.31
			1	12	23.50	23.18	23.04	23.23
			1	24	23.50	23.16	23.19	23.19
			12	0	22.50	22.02	21.87	22.14
			12	6	22.50	22.02	21.85	22.09
			12	11	22.50	22.00	21.86	22.07
			25	0	22.50	22.00	21.85	22.08
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133172/668	133297/680.5	133422/693
LTE Band 71	10MHz	QPSK	1	0	24.50	23.98	23.78	24.05
			1	24	24.50	23.96	23.89	24.10
			1	49	24.50	23.79	23.83	23.94
			25	0	23.50	23.02	22.85	23.07
			25	12	23.50	22.96	22.85	23.07
			25	24	23.50	22.82	22.83	23.06

			50	0	23.50	22.95	22.87	23.05
		16QAM	1	0	23.50	23.25	23.06	23.25
			1	24	23.50	23.21	23.17	23.25
			1	49	23.50	23.01	23.11	23.25
			25	0	22.50	22.01	21.85	22.10
			25	12	22.50	21.93	21.85	22.09
			25	24	22.50	21.80	21.85	22.07
			50	0	22.50	21.93	21.86	22.05
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133197/670.5	133297/680.5	133397/690.5
LTE Band 71	15MHz	QPSK	1	0	24.50	24.02	23.85	23.93
			1	37	24.50	23.73	23.87	24.03
			1	74	24.50	23.70	23.92	23.95
			36	0	23.50	22.96	22.82	22.98
			36	18	23.50	22.86	22.82	23.01
			36	37	23.50	22.78	22.87	23.00
			75	0	23.50	22.88	22.86	23.04
		16QAM	1	0	23.50	23.28	23.02	23.12
			1	37	23.50	23.02	23.16	23.36
			1	74	23.50	22.92	23.17	23.28
			36	0	22.50	21.94	21.83	21.96
			36	18	22.50	21.84	21.83	22.04
			36	37	22.50	21.76	21.87	21.99
			75	0	22.50	21.88	21.88	22.03
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133222/673	133322/683	133372/688
LTE Band 71	20MHz	QPSK	1	0	24.50	24.02	23.79	23.79
			1	49	24.50	23.80	23.91	24.11
			1	99	24.50	23.74	23.91	23.96
			50	0	23.50	22.95	22.86	22.94
			50	24	23.50	22.88	22.90	23.05
			50	49	23.50	22.84	22.93	23.03
			100	0	23.00	22.93	22.89	22.98
		16QAM	1	0	23.50	23.26	23.14	23.12
			1	49	23.50	23.06	23.23	23.23
			1	99	23.50	22.94	23.17	23.24
			50	0	22.50	21.95	21.87	21.95

			50	24	22.50	21.89	21.90	22.05
			50	49	22.50	21.84	21.90	22.04
			100	0	22.00	21.87	21.88	21.98

7.4. NR SA Power

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Tune-up (dBm)	Power (dBm)	Verdict
n71	30	10	133600	1@1	DFT_BPSK	23.5	23.02	PASS
n71	30	10	133600	24@0	DFT_QPSK	22.5	22.13	PASS
n71	30	10	133600	12@6	DFT_QPSK	23.5	23.11	PASS
n71	30	10	133600	1@1	DFT_QPSK	23.5	23.08	PASS
n71	30	10	133600	1@22	DFT_QPSK	23.5	23.14	PASS
n71	30	10	133600	1@1	DFT_QAM16	22.5	22.11	PASS
n71	30	10	133600	1@1	DFT_QAM64	21	20.7	PASS
n71	30	10	133600	1@1	DFT_QAM256		-36.1	PASS
n71	30	10	133600	1@1	CP_QPSK	22	21.69	PASS
n71	30	10	136100	1@1	DFT_BPSK	23.5	23.24	PASS
n71	30	10	136100	24@0	DFT_QPSK	22.5	22.33	PASS
n71	30	10	136100	12@6	DFT_QPSK	23.5	23.38	PASS
n71	30	10	136100	1@1	DFT_QPSK	23.5	23.23	PASS
n71	30	10	136100	1@22	DFT_QPSK	23.5	23.34	PASS
n71	30	10	136100	1@1	DFT_QAM16	22.5	22.33	PASS
n71	30	10	136100	1@1	DFT_QAM64	21	20.86	PASS
n71	30	10	136100	1@1	DFT_QAM256	19	18.8	PASS
n71	30	10	136100	1@1	CP_QPSK	22	21.83	PASS
n71	30	10	138600	1@1	DFT_BPSK	23.5	23.29	PASS
n71	30	10	138600	24@0	DFT_QPSK	22.5	22.23	PASS
n71	30	10	138600	12@6	DFT_QPSK	23.5	23.25	PASS
n71	30	10	138600	1@1	DFT_QPSK	23.5	23.33	PASS
n71	30	10	138600	1@22	DFT_QPSK	23.5	23.18	PASS
n71	30	10	138600	1@1	DFT_QAM16	22.5	22.39	PASS
n71	30	10	138600	1@1	DFT_QAM64	21	20.97	PASS
n71	30	10	138600	1@1	DFT_QAM256	19	18.85	PASS
n71	30	10	138600	1@1	CP_QPSK	22	21.94	PASS
n71	30	15	134100	1@1	DFT_BPSK	23.5	23.06	PASS
n71	30	15	134100	36@0	DFT_QPSK	22.5	22.21	PASS
n71	30	15	134100	18@9	DFT_QPSK	23.5	23.18	PASS
n71	30	15	134100	1@1	DFT_QPSK	23.5	23.1	PASS
n71	30	15	134100	1@36	DFT_QPSK	23.5	23.29	PASS

n71	30	15	134100	1@1	DFT_QAM16	22.5	22.24	PASS
n71	30	15	134100	1@1	DFT_QAM64	21	20.9	PASS
n71	30	15	134100	1@1	DFT_QAM256		-34.64	PASS
n71	30	15	134100	1@1	CP_QPSK	22	21.52	PASS
n71	30	15	136100	1@1	DFT_BPSK	23.5	23.18	PASS
n71	30	15	136100	36@0	DFT_QPSK	22.5	22.39	PASS
n71	30	15	136100	18@9	DFT_QPSK	24	23.58	PASS
n71	30	15	136100	1@1	DFT_QPSK	23.5	23.19	PASS
n71	30	15	136100	1@36	DFT_QPSK	23.5	23.37	PASS
n71	30	15	136100	1@1	DFT_QAM16	22.5	22.35	PASS
n71	30	15	136100	1@1	DFT_QAM64	21.5	21.06	PASS
n71	30	15	136100	1@1	DFT_QAM256	19	18.68	PASS
n71	30	15	136100	1@1	CP_QPSK	22	21.64	PASS
n71	30	15	138100	1@1	DFT_BPSK	23.5	23.48	PASS
n71	30	15	138100	36@0	DFT_QPSK	22.5	22.43	PASS
n71	30	15	138100	18@9	DFT_QPSK	23.5	23.35	PASS
n71	30	15	138100	1@1	DFT_QPSK	23.5	23.46	PASS
n71	30	15	138100	1@36	DFT_QPSK	23.5	23.15	PASS
n71	30	15	138100	1@1	DFT_QAM16	23	22.6	PASS
n71	30	15	138100	1@1	DFT_QAM64	21.5	21.24	PASS
n71	30	15	138100	1@1	DFT_QAM256	19	18.86	PASS
n71	30	15	138100	1@1	CP_QPSK	22	21.98	PASS
n71	30	20	134600	1@1	DFT_BPSK	23.5	23.16	PASS
n71	30	20	134600	50@0	DFT_QPSK	22.5	22.29	PASS
n71	30	20	134600	25@12	DFT_QPSK	23.5	23.26	PASS
n71	30	20	134600	1@1	DFT_QPSK	23.5	23.16	PASS
n71	30	20	134600	1@49	DFT_QPSK	24	23.53	PASS
n71	30	20	134600	1@1	DFT_QAM16	22.5	22.22	PASS
n71	30	20	134600	1@1	DFT_QAM64	21	20.83	PASS
n71	30	20	134600	1@1	DFT_QAM256	21.5	21.16	PASS
n71	30	20	134600	1@1	CP_QPSK	22	21.61	PASS
n71	30	20	136100	1@1	DFT_BPSK	23.5	23.21	PASS
n71	30	20	136100	50@0	DFT_QPSK	22.5	22.4	PASS
n71	30	20	136100	25@12	DFT_QPSK	23.5	23.47	PASS
n71	30	20	136100	1@1	DFT_QPSK	23.5	23.23	PASS
n71	30	20	136100	1@49	DFT_QPSK	23.5	23.34	PASS
n71	30	20	136100	1@1	DFT_QAM16	22.5	22.29	PASS
n71	30	20	136100	1@1	DFT_QAM64	21	20.85	PASS

n71	30	20	136100	1@1	DFT_QAM256	19	18.7	PASS
n71	30	20	136100	1@1	CP_QPSK	22	21.75	PASS
n71	30	20	137600	1@1	DFT_BPSK	23.5	23.39	PASS
n71	30	20	137600	50@0	DFT_QPSK	22.5	22.46	PASS
n71	30	20	137600	25@12	DFT_QPSK	23.5	23.48	PASS
n71	30	20	137600	1@1	DFT_QPSK	23.5	23.42	PASS
n71	30	20	137600	1@49	DFT_QPSK	23.5	23.28	PASS
n71	30	20	137600	1@1	DFT_QAM16	22.5	22.49	PASS
n71	30	20	137600	1@1	DFT_QAM64	21.5	21.04	PASS
n71	30	20	137600	1@1	DFT_QAM256	19	18.92	PASS
n71	30	20	137600	1@1	CP_QPSK	22	21.94	PASS

7.5. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11b	1	2412	15.50	15.18	16.00	15.52	/	/
	6	2437	15.50	14.09	16.00	15.29	/	/
	11	2462	15.50	14.07	16.00	15.22	/	/
802.11g	1	2412	14.50	14.04	15.00	13.64	/	/
	6	2437	14.50	13.15	15.00	14.95	/	/
	11	2462	14.50	13.05	15.00	14.53	/	/
802.11n HT20	1	2412	13.00	12.77	13.50	13.07	15.00	14.60
	6	2437	13.00	11.88	13.50	12.47	15.00	14.60
	11	2462	13.00	11.88	13.50	11.81	15.00	14.61
802.11n HT40	3	2422	13.00	12.81	13.50	13.28	15.00	14.58
	6	2437	13.00	12.32	13.50	13.41	15.00	14.61
	9	2452	13.00	12.23	13.50	11.67	15.00	14.60
802.11ax HT20	1	2412	11.50	11.03	13.50	13.27	15.00	14.59
	6	2437	11.50	11.13	13.50	11.72	15.00	14.61
	11	2462	11.50	11.13	13.50	11.96	15.00	14.59
802.11ax HT40	3	2422	13.00	12.85	12.50	11.51	15.00	14.59
	6	2437	13.00	12.85	12.50	11.51	15.00	14.59
	9	2452	13.00	12.72	12.50	12.05	15.00	14.60

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11a	36	5180	13.00	10.28	9.00	8.71	N/A	N/A
	40	5200	13.00	9.83	9.00	7.99	N/A	N/A
	48	5240	13.00	8.98	9.00	7.77	N/A	N/A
802.11n HT20	36	5180	9.50	8.77	9.50	9.04	14.50	14.46
	40	5200	9.50	9.10	9.50	8.95	14.50	14.39
	48	5240	9.50	7.82	9.50	7.79	14.50	13.46
802.11n HT40	38	5190	8.50	8.18	7.00	6.85	12.00	11.80
	46	5230	8.50	7.26	7.00	6.16	12.00	11.15
802.11ac VHT20	36	5180	9.50	8.95	8.50	7.73	12.00	11.76
	40	5200	9.50	9.20	8.50	8.41	12.00	11.45
	48	5240	9.50	8.07	8.50	8.02	12.00	11.00
802.11ac VHT40	38	5190	7.50	6.85	7.00	6.85	12.00	11.81
	46	5230	7.50	7.22	7.00	6.69	12.00	11.29
802.11ac VHT80	42	5210	6.00	5.51	5.50	5.06	10.50	10.43
802.11ax HE 20	36	5180	9.00	8.82	9.00	8.40	12.00	11.82
	40	5200	9.00	8.49	9.00	8.67	12.00	11.11
	48	5240	9.00	7.45	9.00	7.05	12.00	10.74
802.11ax HE 40	38	5190	9.00	8.81	7.50	7.20	11.00	10.67
	46	5230	9.00	7.97	7.50	5.92	11.00	10.60
802.11ax HE 80	42	5210	6.50	6.05	4.00	3.97	10.50	10.14

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11a	149	5745	9.50	9.42	11.50	8.69	N/A	N/A
	157	5785	9.50	8.92	11.50	7.95	N/A	N/A
	165	5825	9.50	8.07	11.50	8.98	N/A	N/A
802.11n HT20	149	5745	8.50	8.31	9.50	8.32	14.00	13.89
	157	5785	8.50	7.30	9.50	7.94	14.00	13.96
	165	5825	8.50	7.02	9.50	9.20	14.00	13.32
802.11n HT40	151	5755	7.50	7.04	7.00	6.99	14.00	13.46
	159	5795	7.50	6.83	7.00	6.16	14.00	13.76

802.11ac VHT20	149	5745	8.50	8.07	9.00	8.34	14.00	13.54
	157	5785	8.50	7.38	9.00	8.05	14.00	13.35
	165	5825	8.50	6.67	9.00	8.97	14.00	13.95
802.11ac VHT40	151	5755	8.50	8.42	6.50	6.19	13.00	12.76
	159	5795	8.50	8.08	6.50	6.13	13.00	11.81
802.11ac VHT80	155	5775	6.50	6.35	4.50	4.11	12.00	11.52
802.11ax HE 20	149	5745	9.50	9.47	8.50	8.27	13.00	11.82
	157	5785	9.50	8.09	8.50	7.97	13.00	12.60
	165	5825	9.50	8.40	8.50	8.43	13.00	12.03
802.11ax HE 40	151	5755	8.00	7.99	8.00	7.68	12.50	11.27
	159	5795	8.00	7.39	8.00	7.13	12.50	12.19
802.11ax HE 80	155	5775	7.00	6.65	4.00	3.51	12.00	11.58

NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
	1M	4.00	2.29	2.34	3.69
	2M	3.20	1.35	1.5	3.11
	3M	3.50	1.58	1.69	3.47

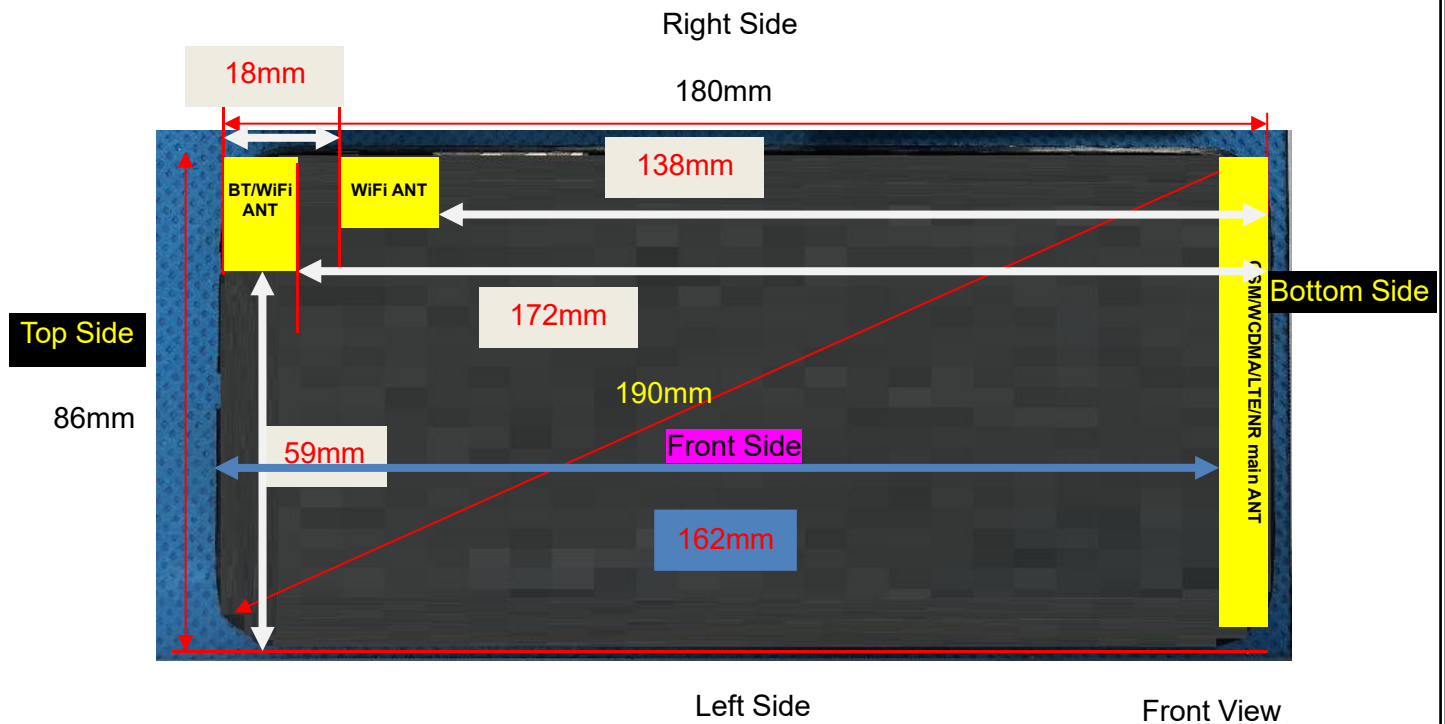
BLE	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channe		
			0CH	19CH	39CH
	1M	4.00	2.23	2.91	3.80
	2M	4.00	2.26	3.02	3.93

NOTE: Power measurement results of Bluetooth.

7.6. NFC

Channel Freq (MHz)	Min Distance (mm)	Max power (dBm)	tune-up power (dBm)	Max power (mW)	Limits (mW)	SAR Test Exclusion
13.56	10	-35.13	-35.13 ± 1	0.00039	443	Yes

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 ANT 1	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	>25mm
WLAN ANT 2	≤ 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	NO	Yes	Yes	NO
WLAN ANT 2	Yes	Yes	NO	Yes	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:

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

- $f_{\text{(GHz)}}$ 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
Bluetooth	4.00	2.512	5	2.480	0.791	3	Yes

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	4.00	2.512	5	2.48	7.5	0.105
Bluetooth	Body	4.00	2.512	10	2.48	7.5	0.053
Bluetooth	Hotspot	4.00	2.512	10	2.48	7.5	0.053

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($\pm 5\%$)	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 4TS)	0.164	0.130	3.42	28.99	29.00	0.164	2024/12/11	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.086	0.067	3.50	28.99	29.00	0.086	2024/12/11	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.151	0.116	-0.94	28.99	29.00	0.151	2024/12/11	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.068	0.053	-0.81	28.99	29.00	0.068	2024/12/11	

NOTE: Head SAR test results of GSM850.

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	189/836.4	GPRS(GMSK 4TS)	0.220	0.127	-2.50	28.99	29.00	0.221	2024/12/11	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.418	0.247	-0.54	28.99	29.00	0.419	2024/12/11	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot 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
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.220	0.127	-2.50	28.99	29.00	0.221	2024/12/11	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.418	0.247	-0.54	28.99	29.00	0.419	2024/12/11	2#
Left Side	189/836.4	GPRS(GMSK 4TS)	0.184	0.107	-2.90	28.99	29.00	0.184	2024/12/11	
Right Side	189/836.4	GPRS(GMSK 4TS)	0.043	0.025	0.53	28.99	29.00	0.043	2024/12/11	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.293	0.168	0.72	28.99	29.00	0.294	2024/12/11	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	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
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.162	0.098	4.21	24.93	25.00	0.165	2024/12/26	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.089	0.053	0.63	24.93	25.00	0.090	2024/12/26	

Right Cheek	661/1880	GPRS(GMSK 4TS)	0.139	0.081	-2.78	24.93	25.00	0.141	2024/12/26	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.075	0.044	0.57	24.93	25.00	0.076	2024/12/26	

NOTE: Head SAR test results of GSM1900

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	661/1880	GPRS(GMSK 4TS)	0.266	0.142	-1.84	24.93	25.00	0.270	2024/12/26	
Back Side	661/1880	GPRS(GMSK 4TS)	0.758	0.418	-0.78	24.93	25.00	0.770	2024/12/26	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducte d power (dBm)	Tune-up power (dBm)	Scale d SAR 1g (W/K g)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 4TS)	0.266	0.142	-1.84	24.93	25.00	0.270	2024/12/26	
Back Side	661/1880	GPRS(GMSK 4TS)	0.758	0.418	-0.78	24.93	25.00	0.770	2024/12/26	4#
Left Side	661/1880	GPRS(GMSK 4TS)	0.395	0.211	2.64	24.93	25.00	0.401	2024/12/26	
Right Side	661/1880	GPRS(GMSK 4TS)	0.079	0.044	3.42	24.93	25.00	0.080	2024/12/26	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.418	0.224	0.98	24.93	25.00	0.425	2024/12/26	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	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
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.025	0.018	-3.31	23.22	23.50	0.027	2024/12/26	5#

Left Tilt 15 Degree	9400/1880	RMC12.2K	0.014	0.012	-3.05	23.22	23.50	0.015	2024/12/26	
Right Cheek	9400/1880	RMC12.2K	0.022	0.015	-2.85	23.22	23.50	0.023	2024/12/26	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.011	0.009	1.78	23.22	23.50	0.012	2024/12/26	

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	0.037	0.018	2.36	23.22	23.50	0.039	2024/12/26	
Back Side	9400/1880	RMC12.2K	0.344	0.170	-3.70	23.22	23.50	0.367	2024/12/26	6#

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

Test Position of Hotspot 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
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.037	0.018	2.36	23.22	23.50	0.039	2024/12/26	
Back Side	9400/1880	RMC12.2K	0.344	0.170	-3.70	23.22	23.50	0.367	2024/12/26	6#
Left Side	9400/1880	RMC12.2K	0.078	0.037	-3.85	23.22	23.50	0.083	2024/12/26	
Right Side	9400/1880	RMC12.2K	0.035	0.017	-1.17	23.22	23.50	0.037	2024/12/26	
Bottom Side	9400/1880	RMC12.2K	0.263	0.126	-2.71	23.22	23.50	0.281	2024/12/26	
Front Side	9400/1880	RMC12.2K	0.037	0.018	2.36	23.22	23.50	0.039	2024/12/26	
Back Side	9400/1880	RMC12.2K	0.344	0.170	-3.70	23.22	23.50	0.367	2024/12/26	
Left Side	9400/1880	RMC12.2K	0.078	0.037	-3.85	23.22	23.50	0.083	2024/12/26	

NOTE: Hotspot SAR test results of WCDMA Band 2

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
			1-g	10-g						
Back Side	9400/1880	RMC12.2K	1.684	0.812	-1.48	21.62	22.00	0.886	2024/12/26	49#

NOTE: Extremity SAR test results of WCDMA Band 2

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
			1-g	10-g						

Back Side	1413/1732.6	RMC12.2K	1.726	0.858	1.63	21.75	22.00	0.909	2024/12/25	50#
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NOTE: Extremity SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	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
			1-g	10-g						
Left Cheek	4182/836.4	RMC12.2K	0.095	0.075	2.28	22.87	23.50	0.110	2024/12/11	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.055	0.043	-2.13	22.87	23.50	0.064	2024/12/11	
Right Cheek	4182/836.4	RMC12.2K	0.084	0.066	2.08	22.87	23.50	0.097	2024/12/11	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.040	0.031	-0.96	22.87	23.50	0.046	2024/12/11	

NOTE: Head SAR test results of WCDMA 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						
Front Side	4182/836.4	RMC12.2K	0.120	0.067	-2.31	22.87	23.50	0.139	2024/12/11	
Back Side	4182/836.4	RMC12.2K	0.225	0.131	-0.78	22.87	23.50	0.260	2024/12/11	10#

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

Test Position of Hotspot 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
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.120	0.067	-2.31	22.87	23.50	0.139	2024/12/11	
Back Side	4182/836.4	RMC12.2K	0.225	0.131	-0.78	22.87	23.50	0.260	2024/12/11	10#
Left Side	4182/836.4	RMC12.2K	0.096	0.055	3.54	22.87	23.50	0.111	2024/12/11	
Right Side	4182/836.4	RMC12.2K	0.027	0.015	-2.14	22.87	23.50	0.031	2024/12/11	

Bottom Side	4182/836.4	RMC12.2K	0.163	0.091	2.68	22.87	23.50	0.188	2024/12/11	
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NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of LTE Band 2

Test Position of Head	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
			1-g	10-g						
1RB										
Left Cheek	18900/1880	20M QPSK(1,49)	0.021	0.015	-1.13	20.59	21.00	0.023	2024/12/09	29#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.011	0.009	-3.99	20.59	21.00	0.012	2024/12/09	
Right Cheek	18900/1880	20M QPSK(1,49)	0.018	0.016	0.42	20.59	21.00	0.020	2024/12/09	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.009	0.007	0.75	20.59	21.00	0.010	2024/12/09	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,24)	0.012	0.008	-1.15	20.53	21.50	0.015	2024/12/09	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,24)	0.006	0.005	4.16	20.53	21.50	0.008	2024/12/09	
Right Cheek	18900/1880	20M QPSK(50,24)	0.010	0.009	-3.24	20.53	21.50	0.013	2024/12/09	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,24)	0.005	0.004	-1.30	20.53	21.50	0.006	2024/12/09	

NOTE: Head SAR test results of LTE 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						

1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.037	0.024	1.17	20.59	21.00	0.041	2024/12/09	
Back Side	18900/1880	20M QPSK(1,49)	0.430	0.225	0.92	20.59	21.00	0.473	2024/12/09	30#
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.020	0.012	-0.06	20.53	21.50	0.025	2024/12/09	
Back Side	18900/1880	20M QPSK(50,24)	0.244	0.135	-4.09	20.53	21.50	0.305	2024/12/09	

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

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.333	0.181	3.63	21.79	22.50	0.392	2024/12/09	
Back Side	18900/1880	20M QPSK(1,49)	0.944	0.534	-0.33	21.79	22.50	1.112	2024/12/09	30#
Left Side	18900/1880	20M QPSK(1,49)	0.485	0.269	1.94	21.79	22.50	0.571	2024/12/09	
Right Side	18900/1880	20M QPSK(1,49)	0.096	0.053	-3.64	21.79	22.50	0.113	2024/12/09	
Bottom Side	18900/1880	20M QPSK(1,49)	0.545	0.308	2.60	21.79	22.50	0.642	2024/12/09	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.020	0.012	-0.06	20.53	21.50	0.025	2024/12/09	
Back Side	18900/1880	20M QPSK(50,24)	0.244	0.135	-4.09	20.53	21.50	0.305	2024/12/09	
Left Side	18900/1880	20M QPSK(50,24)	0.041	0.026	3.94	20.53	21.50	0.051	2024/12/09	
Right Side	18900/1880	20M QPSK(50,24)	0.023	0.012	-2.97	20.53	21.50	0.029	2024/12/09	
Bottom Side	18900/1880	20M QPSK(50,24)	0.171	0.104	4.97	20.53	21.50	0.214	2024/12/09	

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20175/1732.5	20M QPSK(1,99)	0.033	0.024	-0.43	21.10	21.50	0.036	2024/12/06	31#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.019	0.017	0.66	21.10	21.50	0.021	2024/12/06	
Right Cheek	20175/1732.5	20M QPSK(1,99)	0.029	0.020	0.81	21.10	21.50	0.032	2024/12/06	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.013	0.011	3.94	21.10	21.50	0.014	2024/12/06	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,49)	0.017	0.012	-2.13	21.03	21.50	0.019	2024/12/06	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.011	0.009	2.58	21.03	21.50	0.012	2024/12/06	
Right Cheek	20175/1732.5	20M QPSK(50,49)	0.017	0.012	-3.32	21.03	21.50	0.019	2024/12/06	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.007	0.006	3.15	21.03	21.50	0.008	2024/12/06	

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	20175/1732.5	20M	0.067	0.036	1.57	21.10	21.50	0.073	2024/12/06	

Side		QPSK(1,99)								
Back Side	20175/1732.5	20M QPSK(1,99)	0.638	0.350	4.18	21.10	21.50	0.700	2024/12/06	32#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.036	0.019	-1.27	21.03	21.50	0.040	2024/12/06	
Back Side	20175/1732.5	20M QPSK(50,49)	0.350	0.183	-0.23	21.03	21.50	0.390	2024/12/06	

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

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.067	0.036	1.57	21.10	21.50	0.073	2024/12/06	
Back Side	20175/1732.5	20M QPSK(1,99)	0.638	0.350	4.18	21.10	21.50	0.700	2024/12/06	32#
Left Side	20175/1732.5	20M QPSK(1,99)	0.128	0.069	-0.23	21.10	21.50	0.140	2024/12/06	
Right Side	20175/1732.5	20M QPSK(1,99)	0.067	0.036	3.92	21.10	21.50	0.073	2024/12/06	
Bottom Side	20175/1732.5	20M QPSK(1,99)	0.488	0.268	3.83	21.10	21.50	0.535	2024/12/06	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.036	0.019	-1.27	21.03	21.50	0.040	2024/12/06	
Back Side	20175/1732.5	20M QPSK(50,49)	0.350	0.183	-0.23	21.03	21.50	0.390	2024/12/06	
Left Side	20175/1732.5	20M QPSK(50,49)	0.066	0.041	-0.69	21.03	21.50	0.074	2024/12/06	
Right Side	20175/1732.5	20M QPSK(50,49)	0.039	0.020	-0.41	21.03	21.50	0.043	2024/12/06	
Bottom Side	20175/1732.5	20M QPSK(50,49)	0.246	0.137	-1.28	21.03	21.50	0.274	2024/12/06	

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.101	0.079	0.15	22.26	22.50	0.107	2024/12/11	33#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.055	0.043	-0.20	22.26	22.50	0.058	2024/12/11	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.089	0.069	1.52	22.26	22.50	0.094	2024/12/11	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.041	0.032	0.01	22.26	22.50	0.043	2024/12/11	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,0)	0.091	0.070	-0.49	22.31	22.50	0.095	2024/12/11	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.048	0.041	4.46	22.31	22.50	0.050	2024/12/11	
Right Cheek	20525/836.5	10M QPSK(25,0)	0.082	0.062	-4.17	22.31	22.50	0.086	2024/12/11	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.037	0.030	-4.56	22.31	22.50	0.039	2024/12/11	

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)	0.140	0.083	0.61	22.26	22.50	0.148	2024/12/11	
Back Side	20525/836.5	10M	0.260	0.156	-1.63	22.26	22.50	0.275	2024/12/11	34#

		QPSK(1,24)								
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.124	0.072	1.08	22.31	22.50	0.130	2024/12/11	
Back Side	20525/836.5	10M QPSK(25,0)	0.237	0.147	3.06	22.31	22.50	0.248	2024/12/11	

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

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.140	0.083	0.61	22.26	22.50	0.148	2024/12/11	
Back Side	20525/836.5	10M QPSK(1,24)	0.260	0.156	-1.63	22.26	22.50	0.275	2024/12/11	34#
Left Side	20525/836.5	10M QPSK(1,24)	0.120	0.071	-0.32	22.26	22.50	0.127	2024/12/11	
Right Side	20525/836.5	10M QPSK(1,24)	0.027	0.016	-3.91	22.26	22.50	0.029	2024/12/11	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.189	0.112	2.27	22.26	22.50	0.200	2024/12/11	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.124	0.072	1.08	22.31	22.50	0.130	2024/12/11	
Back Side	20525/836.5	10M QPSK(25,0)	0.237	0.147	3.06	22.31	22.50	0.248	2024/12/11	
Left Side	20525/836.5	10M QPSK(25,0)	0.104	0.067	3.77	22.31	22.50	0.109	2024/12/11	
Right Side	20525/836.5	10M QPSK(25,0)	0.023	0.014	-4.93	22.31	22.50	0.024	2024/12/11	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.161	0.103	-4.45	22.31	22.50	0.168	2024/12/11	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 12

Test Position of Head	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
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,24)	0.082	0.070	-1.36	23.96	24.50	0.093	2024/12/13	35#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.049	0.041	3.39	23.96	24.50	0.055	2024/12/13	
Right Cheek	23095/707.5	10M QPSK(1,24)	0.074	0.062	-1.50	23.96	24.50	0.084	2024/12/13	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.037	0.030	0.59	23.96	24.50	0.042	2024/12/13	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,0)	0.044	0.037	-3.26	23.02	23.50	0.049	2024/12/13	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.025	0.024	-3.27	23.02	23.50	0.028	2024/12/13	
Right Cheek	23095/707.5	10M QPSK(25,0)	0.043	0.033	2.79	23.02	23.50	0.048	2024/12/13	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.019	0.016	-1.33	23.02	23.50	0.021	2024/12/13	

NOTE: Head SAR test results of LTE Band 12

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
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.080	0.064	1.89	23.96	24.50	0.091	2024/12/13	
Back Side	23095/707.5	10M QPSK(1,24)	0.152	0.125	0.11	23.96	24.50	0.172	2024/12/13	36#
50%RB										
Front Side	23095/707.5	10M	0.043	0.034	-2.03	23.02	23.50	0.048	2024/12/13	

		QPSK(25,0)								
Back Side	23095/707.5	10M QPSK(25,0)	0.086	0.065	-0.19	23.02	23.50	0.096	2024/12/13	

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

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.080	0.064	1.89	23.96	24.50	0.091	2024/12/13	
Back Side	23095/707.5	10M QPSK(1,24)	0.152	0.125	0.11	23.96	24.50	0.172	2024/12/13	36#
Left Side	23095/707.5	10M QPSK(1,24)	0.076	0.061	0.00	23.96	24.50	0.086	2024/12/13	
Right Side	23095/707.5	10M QPSK(1,24)	0.020	0.018	1.74	23.96	24.50	0.023	2024/12/13	
Bottom Side	23095/707.5	10M QPSK(1,24)	0.117	0.092	-2.47	23.96	24.50	0.132	2024/12/13	
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.043	0.034	-2.03	23.02	23.50	0.048	2024/12/13	
Back Side	23095/707.5	10M QPSK(25,0)	0.086	0.065	-0.19	23.02	23.50	0.096	2024/12/13	
Left Side	23095/707.5	10M QPSK(25,0)	0.045	0.033	3.29	23.02	23.50	0.050	2024/12/13	
Right Side	23095/707.5	10M QPSK(25,0)	0.010	0.010	-0.69	23.02	23.50	0.011	2024/12/13	
Bottom Side	23095/707.5	10M QPSK(25,0)	0.068	0.050	-0.41	23.02	23.50	0.076	2024/12/13	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.10. SAR measurement Result of LTE Band 17

Test Position of Head	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
			1-g	10-g						

1RB										
Left Cheek	23790/710	10M QPSK(1,0)	0.082	0.070	4.62	23.90	24.00	0.084	2024/12/13	37#
Left Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.044	0.036	-1.83	23.90	24.00	0.045	2024/12/13	
Right Cheek	23790/710	10M QPSK(1,0)	0.074	0.061	0.23	23.90	24.00	0.076	2024/12/13	
Right Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.039	0.032	3.77	23.90	24.00	0.040	2024/12/13	
50%RB										
Left Cheek	23790/710	10M QPSK(25,0)	0.046	0.036	0.19	22.95	23.00	0.047	2024/12/13	
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.023	0.020	-4.25	22.95	23.00	0.023	2024/12/13	
Right Cheek	23790/710	10M QPSK(25,0)	0.037	0.034	0.49	22.95	23.00	0.037	2024/12/13	
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.023	0.017	3.95	22.95	23.00	0.023	2024/12/13	

NOTE: Head SAR test results of LTE Band 17

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
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,0)	0.090	0.071	-2.53	23.90	24.00	0.092	2024/12/13	
Back Side	23790/710	10M QPSK(1,0)	0.160	0.131	0.80	23.90	24.00	0.164	2024/12/13	38#
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.048	0.042	-2.63	22.95	23.00	0.049	2024/12/13	
Back Side	23790/710	10M QPSK(25,0)	0.085	0.068	0.70	22.95	23.00	0.086	2024/12/13	

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

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,0)	0.090	0.071	-2.53	23.90	24.00	0.092	2024/12/13	
Back Side	23790/710	10M QPSK(1,0)	0.160	0.131	0.80	23.90	24.00	0.164	2024/12/13	38#
Left Side	23790/710	10M QPSK(1,0)	0.064	0.052	2.16	23.90	24.00	0.065	2024/12/13	
Right Side	23790/710	10M QPSK(1,0)	0.020	0.018	-3.31	23.90	24.00	0.020	2024/12/13	
Bottom Side	23790/710	10M QPSK(1,0)	0.137	0.107	0.53	23.90	24.00	0.140	2024/12/13	
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.048	0.042	-2.63	22.95	23.00	0.049	2024/12/13	
Back Side	23790/710	10M QPSK(25,0)	0.085	0.068	0.70	22.95	23.00	0.086	2024/12/13	
Left Side	23790/710	10M QPSK(25,0)	0.033	0.028	3.12	22.95	23.00	0.033	2024/12/13	
Right Side	23790/710	10M QPSK(25,0)	0.012	0.010	1.88	22.95	23.00	0.012	2024/12/13	
Bottom Side	23790/710	10M QPSK(25,0)	0.080	0.061	4.77	22.95	23.00	0.081	2024/12/13	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.11. SAR measurement Result of LTE Band 41

Test Position of Head	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
			1-g	10-g						
1RB										
Left Cheek	40620/2593	20M QPSK(1,49)	0.194	0.097	0.11	23.98	24.00	0.195	2024/12/16	39#

Test Position of	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g	Date	Plot
			1-g	10-g						

Hotspot with 10mm								(W/Kg)		
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.264	0.134	3.48	23.98	24.00	0.265	2024/12/16	
Back Side	40620/2593	20M QPSK(1,49)	0.404	0.216	1.22	23.98	24.00	0.406	2024/12/16	40#
Left Side	40620/2593	20M QPSK(1,49)	0.126	0.067	-0.83	23.98	24.00	0.127	2024/12/16	
Right Side	40620/2593	20M QPSK(1,49)	0.129	0.067	3.09	23.98	24.00	0.130	2024/12/16	
Bottom Side	40620/2593	20M QPSK(1,49)	0.442	0.226	0.18	23.98	24.00	0.444	2024/12/16	
50%RB										
Front Side	40620/2593	20M QPSK(50,0)	0.248	0.122	-2.41	23.41	23.50	0.253	2024/12/16	
Back Side	40620/2593	20M QPSK(50,0)	0.362	0.200	-0.63	23.41	23.50	0.370	2024/12/16	
Left Side	40620/2593	20M QPSK(50,0)	0.109	0.061	-1.41	23.41	23.50	0.111	2024/12/16	
Right Side	40620/2593	20M QPSK(50,0)	0.119	0.063	-4.77	23.41	23.50	0.121	2024/12/16	
Bottom Side	40620/2593	20M QPSK(50,0)	0.420	0.206	-0.02	23.41	23.50	0.429	2024/12/16	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.12. SAR measurement Result of LTE Band 66

Test Position of Head	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
			1-g	10-g						
1RB										
Left Cheek	132322/1745	20M QPSK(1,49)	0.024	0.018	4.98	23.83	24.00	0.025	2024/12/06	41#
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.013	0.011	-3.25	23.83	24.00	0.014	2024/12/06	
Right	132322/1745	20M	0.021	0.015	3.56	23.83	24.00	0.022	2024/12/06	

Test Position of Hotspot 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
			1-g	10-g						
1RB										

Front Side	132322/1745	20M QPSK(1,49)	0.061	0.029	1.45	23.83	24.00	0.063	2024/12/06	
Back Side	132322/1745	20M QPSK(1,49)	0.574	0.289	1.00	23.83	24.00	0.597	2024/12/06	
Left Side	132322/1745	20M QPSK(1,49)	0.124	0.061	-3.07	23.83	24.00	0.129	2024/12/06	
Right Side	132322/1745	20M QPSK(1,49)	0.061	0.029	-1.90	23.83	24.00	0.063	2024/12/06	
Bottom Side	132322/1745	20M QPSK(1,49)	0.465	0.225	1.48	23.83	24.00	0.484	2024/12/06	
50%RB										
Front Side	132322/1745	20M QPSK(50,0)	0.036	0.015	4.33	22.98	23.00	0.036	2024/12/06	
Back Side	132322/1745	20M QPSK(50,0)	0.339	0.155	0.54	22.98	23.00	0.341	2024/12/06	
Left Side	132322/1745	20M QPSK(50,0)	0.065	0.033	4.84	22.98	23.00	0.065	2024/12/06	
Right Side	132322/1745	20M QPSK(50,0)	0.033	0.016	3.11	22.98	23.00	0.033	2024/12/06	
Bottom Side	132322/1745	20M QPSK(50,0)	0.272	0.132	-3.51	22.98	23.00	0.273	2024/12/06	

NOTE: Hotspot SAR test results of LTE Band 66

10.1.13. SAR measurement Result of LTE Band 71

Test Position of Head	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
			1-g	10-g						
1RB										
Left Cheek	133322/683	20M QPSK(1,49)	0.055	0.047	2.41	23.91	24.50	0.063	2024/12/13	31#
Left Tilt 15 Degree	133322/683	20M QPSK(1,49)	0.031	0.025	-1.41	23.91	24.50	0.036	2024/12/13	
Right Cheek	133322/683	20M QPSK(1,49)	0.047	0.038	-3.20	23.91	24.50	0.054	2024/12/13	
Right Tilt 15 Degree	133322/683	20M QPSK(1,49)	0.022	0.018	3.74	23.91	24.50	0.025	2024/12/13	

50%RB										
Left Cheek	133322/683	20M QPSK(50,49)	0.029	0.026	4.88	22.93	23.50	0.033	2024/12/13	
Left Tilt 15 Degree	133322/683	20M QPSK(50,49)	0.018	0.015	-2.27	22.93	23.50	0.021	2024/12/13	
Right Cheek	133322/683	20M QPSK(50,49)	0.026	0.020	1.09	22.93	23.50	0.030	2024/12/13	
Right Tilt 15 Degree	133322/683	20M QPSK(50,49)	0.011	0.010	1.18	22.93	23.50	0.013	2024/12/13	

NOTE: Head SAR test results of LTE Band 71

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
			1-g	10-g						
1RB										
Front Side	133322/683	20M QPSK(1,49)	0.084	0.055	0.42	23.91	24.50	0.096	2024/12/13	
Back Side	133322/683	20M QPSK(1,49)	0.168	0.136	-0.20	23.91	24.50	0.192	2024/12/13	32#
50%RB										
Front Side	133322/683	20M QPSK(50,49)	0.047	0.030	-4.79	22.93	23.50	0.054	2024/12/13	
Back Side	133322/683	20M QPSK(50,49)	0.086	0.075	1.28	22.93	23.50	0.098	2024/12/13	

NOTE: Body-Worn SAR test results of LTE Band 71

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	133322/683	20M QPSK(1,49)	0.084	0.055	0.42	23.91	24.50	0.096	2024/12/13	
Back Side	133322/683	20M QPSK(1,49)	0.168	0.136	-0.20	23.91	24.50	0.192	2024/12/13	32#

Left Side	133322/683	20M QPSK(1,49)	0.086	0.060	-1.46	23.91	24.50	0.099	2024/12/13	
Right Side	133322/683	20M QPSK(1,49)	0.020	0.018	-0.70	23.91	24.50	0.023	2024/12/13	
Bottom Side	133322/683	20M QPSK(1,49)	0.115	0.086	-0.62	23.91	24.50	0.132	2024/12/13	
50%RB										
Front Side	133322/683	20M QPSK(50,49)	0.047	0.030	-4.79	22.93	23.50	0.054	2024/12/13	
Back Side	133322/683	20M QPSK(50,49)	0.086	0.075	1.28	22.93	23.50	0.098	2024/12/13	
Left Side	133322/683	20M QPSK(50,49)	0.049	0.032	1.44	22.93	23.50	0.056	2024/12/13	
Right Side	133322/683	20M QPSK(50,49)	0.011	0.010	-4.29	22.93	23.50	0.013	2024/12/13	
Bottom Side	133322/683	20M QPSK(50,49)	0.059	0.049	4.35	22.93	23.50	0.067	2024/12/13	

NOTE: Hotspot SAR test results of LTE Band 71

10.1.14. SAR measurement Result of NR 71

Test Position of Head	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
			1-g	10-g						
1RB										
Left Cheek	136100/680.5	30kHz 20M QPSK(1,1)	0.035	0.028	0.36	23.23	23.50	0.037	2024/12/13	33#
Left Tilt 15 Degree	136100/680.5	30kHz 20M QPSK(1,1)	0.018	0.016	-0.91	23.23	23.50	0.019	2024/12/13	
Right Cheek	136100/680.5	30kHz 20M QPSK(1,1)	0.031	0.025	-2.64	23.23	23.50	0.033	2024/12/13	
Right Tilt 15 Degree	136100/680.5	30kHz 20M QPSK(1,1)	0.016	0.014	0.76	23.23	23.50	0.017	2024/12/13	
50%RB										
Left Cheek	136100/680.5	30kHz 20M QPSK(1,1)	0.033	0.024	-2.61	23.47	23.50	0.033	2024/12/13	

Left Tilt 15 Degree	136100/680.5	30kHz 20M QPSK(1,1)	0.017	0.015	2.50	23.47	23.50	0.017	2024/12/13	
Right Cheek	136100/680.5	30kHz 20M QPSK(1,1)	0.027	0.023	-4.64	23.47	23.50	0.027	2024/12/13	
Right Tilt 15 Degree	136100/680.5	30kHz 20M QPSK(1,1)	0.014	0.013	-2.74	23.47	23.50	0.014	2024/12/13	

NOTE: Head SAR test results of NR 71

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
			1-g	10-g						
1RB										
Front Side	136100/680.5	30kHz 20M QPSK(1,1)	0.108	0.063	-1.45	23.23	23.50	0.115	2024/12/13	
Back Side	136100/680.5	30kHz 20M QPSK(1,1)	0.135	0.079	-2.05	23.23	23.50	0.144	2024/12/13	34#
50%RB										
Front Side	136100/680.5	30kHz 20M QPSK(1,1)	0.099	0.054	0.36	23.47	23.50	0.100	2024/12/13	
Back Side	136100/680.5	30kHz 20M QPSK(1,1)	0.119	0.070	4.77	23.47	23.50	0.120	2024/12/13	

NOTE: Body-Worn SAR test results of NR 71

Test Position of Hotspot 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
			1-g	10-g						
1RB										
Front Side	136100/680.5	30kHz 20M QPSK(1,1)	0.108	0.063	-1.45	23.23	23.50	0.115	2024/12/13	
Back Side	136100/680.5	30kHz 20M QPSK(1,1)	0.135	0.079	-2.05	23.23	23.50	0.144	2024/12/13	34#
Left Side	136100/680.5	30kHz 20M QPSK(1,1)	0.042	0.025	-2.60	23.23	23.50	0.045	2024/12/13	
Right	136100/680.5	30kHz 20M	0.051	0.029	2.57	23.23	23.50	0.054	2024/12/13	

Side		QPSK(1,1)								
Bottom Side	136100/680.5	30kHz 20M QPSK(1,1)	0.085	0.049	-2.57	23.23	23.50	0.090	2024/12/13	
50%RB										
Front Side	136100/680.5	30kHz 20M QPSK(1,1)	0.099	0.054	0.36	23.47	23.50	0.100	2024/12/13	
Back Side	136100/680.5	30kHz 20M QPSK(1,1)	0.119	0.070	4.77	23.47	23.50	0.120	2024/12/13	
Left Side	136100/680.5	30kHz 20M QPSK(1,1)	0.036	0.022	-1.15	23.47	23.50	0.036	2024/12/13	
Right Side	136100/680.5	30kHz 20M QPSK(1,1)	0.045	0.027	-2.28	23.47	23.50	0.045	2024/12/13	
Bottom Side	136100/680.5	30kHz 20M QPSK(1,1)	0.073	0.045	-2.37	23.47	23.50	0.074	2024/12/13	

NOTE: Hotspot SAR test results of NR 71

10.1.15. SAR measurement Result of WLAN2.4G

Ant 1

Test Position of Head	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
			1-g	10-g						
Left Cheek	1/2412	802.11b	0.136	0.067	-0.42	15.18	15.50	0.146	2024/12/12	15#
Left Tilt 15 Degree	1/2412	802.11b	0.081	0.038	-3.72	15.18	15.50	0.087	2024/12/12	
Right Cheek	1/2412	802.11b	0.120	0.057	1.92	15.18	15.50	0.129	2024/12/12	
Right Tilt 15 Degree	1/2412	802.11b	0.060	0.028	1.61	15.18	15.50	0.065	2024/12/12	

NOTE: Head SAR test results of WLAN2.4G

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
			1-g	10-g						
Front Side	1/2412	802.11b	0.063	0.037	-2.85	15.18	15.50	0.068	2024/12/12	

Back Side	1/2412	802.11b	0.046	0.027	-0.11	15.18	15.50	0.050	2024/12/12	
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NOTE: Body-worn SAR test results of WLAN2.4G

Test Position of Hotspot 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
			1-g	10-g						
Front Side	1/2412	802.11b	0.063	0.037	-2.85	15.18	15.50	0.068	2024/12/12	
Back Side	1/2412	802.11b	0.046	0.027	-0.11	15.18	15.50	0.050	2024/12/12	
Right Side	1/2412	802.11b	0.042	0.024	3.71	15.18	15.50	0.045	2024/12/12	
Top Side	1/2412	802.11b	0.100	0.053	-0.50	15.18	15.50	0.108	2024/12/12	16#

NOTE: Hotspot SAR test results of WLAN2.4G

Ant 2

Test Position of Head	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
			1-g	10-g						
Left Cheek	6/2437	802.11b	0.037	0.023	3.97	15.29	16.00	0.044	2024/12/12	43#
Left Tilt 15 Degree	6/2437	802.11b	0.021	0.012	0.01	15.29	16.00	0.025	2024/12/12	
Right Cheek	6/2437	802.11b	0.032	0.020	-3.39	15.29	16.00	0.038	2024/12/12	
Right Tilt 15 Degree	6/2437	802.11b	0.016	0.014	-0.49	15.29	16.00	0.019	2024/12/12	

NOTE: Head SAR test results of WLAN2.4G

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
			1-g	10-g						
Front Side	6/2437	802.11b	0.018	0.016	-2.23	15.29	16.00	0.021	2024/12/12	

Back Side	6/2437	802.11b	0.012	0.010	-0.58	15.29	16.00	0.014	2024/12/12	
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NOTE: Body-worn SAR test results of WLAN2.4G

Test Position of Hotspot 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
			1-g	10-g						
Front Side	6/2437	802.11b	0.018	0.016	-2.23	15.29	16.00	0.021	2024/12/12	
Back Side	6/2437	802.11b	0.012	0.010	-0.58	15.29	16.00	0.014	2024/12/12	
Right Side	6/2437	802.11b	0.016	0.014	2.64	15.29	16.00	0.019	2024/12/12	
Top Side	6/2437	802.11b	0.020	0.016	-2.90	15.29	16.00	0.024	2024/12/12	45#

NOTE: Hotspot SAR test results of WLAN2.4G

MIMO

Test Position of Head	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
			1-g	10-g						
Left Cheek	6/2437	802.11n HT40	0.284	0.143	4.77	14.61	15.00	0.311	2024/12/12	44#
Left Tilt 15 Degree	6/2437	802.11n HT40	0.144	0.073	3.89	14.61	15.00	0.158	2024/12/12	
Right Cheek	6/2437	802.11n HT40	0.246	0.121	-1.48	14.61	15.00	0.269	2024/12/12	
Right Tilt 15 Degree	6/2437	802.11n HT40	0.113	0.057	-1.02	14.61	15.00	0.124	2024/12/12	

NOTE: Head SAR test results of WLAN2.4G

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
			1-g	10-g						
Front Side	6/2437	802.11n	0.120	0.065	-2.20	14.61	15.00	0.131	2024/12/12	

		HT40								
Back Side	6/2437	802.11n HT40	0.063	0.033	0.75	14.61	15.00	0.069	2024/12/12	

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

Test Position of Hotspot 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
			1-g	10-g						
Front Side	6/2437	802.11n HT40	0.120	0.065	-2.20	14.61	15.00	0.131	2024/12/12	
Back Side	6/2437	802.11n HT40	0.063	0.033	0.75	14.61	15.00	0.069	2024/12/12	
Right Side	6/2437	802.11n HT40	0.076	0.042	1.45	14.61	15.00	0.083	2024/12/12	
Top Side	6/2437	802.11n HT40	0.162	0.089	-2.06	14.61	15.00	0.177	2024/12/12	46#

10.1.16. SAR measurement Result of WLAN5.2G

Ant 1

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	40/5200	802.11a	0.269	0.130	-0.13	9.83	10.50	0.314	2024/12/27	11#
Left Tilt 15 Degree	40/5200	802.11a	0.161	0.077	-0.11	9.83	10.50	0.188	2024/12/27	
Right Cheek	40/5200	802.11a	0.250	0.120	-1.91	9.83	10.50	0.292	2024/12/27	
Right Tilt 15 Degree	40/5200	802.11a	0.128	0.061	-2.37	9.83	10.50	0.149	2024/12/27	

NOTE: Head SAR test results of WLAN5.2G Ant1

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(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
Front Side	40/5200	802.11a	0.180	0.085	-0.13	9.83	10.50	0.210	2024/12/27	
Back Side	40/5200	802.11a	0.245	0.115	3.88	9.83	10.50	0.286	2024/12/27	

NOTE: Head SAR test results of WLAN5.2G Ant1

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	40/5200	802.11a	0.180	0.085	-0.13	9.83	10.50	0.210	2024/12/27	
Back Side	40/5200	802.11a	0.245	0.115	3.88	9.83	10.50	0.286	2024/12/27	
Right Side	40/5200	802.11a	0.108	0.050	-3.37	9.83	10.50	0.126	2024/12/27	
Top Side	40/5200	802.11a	0.347	0.168	-3.11	9.83	10.50	0.405	2024/12/27	13#

NOTE: Head SAR test results of WLAN5.2G Ant1

Ant 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	40/5200	802.11n HT20	0.361	0.132	-2.69	8.95	9.50	0.410	2024/12/27	35#
Left Tilt 15 Degree	40/5200	802.11n HT20	0.198	0.072	2.18	8.95	9.50	0.225	2024/12/27	
Right Cheek	40/5200	802.11n HT20	0.336	0.118	-2.68	8.95	9.50	0.381	2024/12/27	
Right Tilt 15 Degree	40/5200	802.11n HT20	0.160	0.058	-1.71	8.95	9.50	0.182	2024/12/27	

NOTE: Extremity SAR test results of 5.2G Ant2

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	40/5200	802.11n HT20	0.185	0.104	1.56	8.95	9.50	0.210	2024/12/27	
Back Side	40/5200	802.11n HT20	0.266	0.141	-1.16	8.95	9.50	0.302	2024/12/27	

NOTE: Extremity SAR test results of 5.2G Ant2

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	40/5200	802.11n HT20	0.185	0.104	1.56	8.95	9.50	0.210	2024/12/27	
Back Side	40/5200	802.11n HT20	0.266	0.141	-1.16	8.95	9.50	0.302	2024/12/27	
Right Side	40/5200	802.11n HT20	0.102	0.055	1.64	8.95	9.50	0.116	2024/12/27	
Top Side	40/5200	802.11n HT20	0.334	0.187	-2.02	8.95	9.50	0.379	2024/12/27	40#

NOTE: Extremity SAR test results of 5.2G Ant2

MIMO

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	40/5200	802.11a	0.328	0.186	-1.88	14.36	14.50	0.339	2024/12/27	37#
Left Tilt 15 Degree	40/5200	802.11a	0.173	0.097	3.79	14.36	14.50	0.179	2024/12/27	
Right Cheek	40/5200	802.11a	0.288	0.157	1.28	14.36	14.50	0.297	2024/12/27	
Right Tilt 15	40/5200	802.11a	0.147	0.080	0.84	14.36	14.50	0.152	2024/12/27	

Degree										
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NOTE: Extremity SAR test results of 5.2G MIMO

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	40/5200	802.11a	0.320	0.145	3.13	14.36	14.50	0.330	2024/12/27	
Back Side	40/5200	802.11a	0.332	0.204	0.04	14.36	14.50	0.343	2024/12/27	

NOTE: Extremity SAR test results of 5.2G MIMO

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	40/5200	802.11a	0.320	0.145	3.13	14.36	14.50	0.330	2024/12/27	
Back Side	40/5200	802.11a	0.332	0.204	0.04	14.36	14.50	0.343	2024/12/27	
Right Side	40/5200	802.11a	0.189	0.088	0.60	14.36	14.50	0.195	2024/12/27	
Top Side	40/5200	802.11a	0.605	0.285	-4.83	14.36	14.50	0.625	2024/12/27	42#

NOTE: Extremity SAR test results of 5.2G MIMO

10.1.17. SAR measurement Result of WLAN5.8G

Ant 1

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	149/5745	802.11ax HE 20	0.726	0.265	-0.33	9.47	9.50	0.731	2024/12/17	12#
Left Tilt 15 Degree	149/5745	802.11ax HE 20	0.377	0.138	1.80	9.47	9.50	0.380	2024/12/17	
Right Cheek	149/5745	802.11ax HE 20	0.654	0.232	1.21	9.47	9.50	0.659	2024/12/17	

Right Tilt 15 Degree	149/5745	802.11ax HE 20	0.319	0.113	0.65	9.47	9.50	0.321	2024/12/17	
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NOTE: Extremity SAR test results of 5.8G Ant1

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	149/5745	802.11ax HE 20	0.205	0.092	2.73	9.47	9.50	0.206	2024/12/17	
Back Side	149/5745	802.11ax HE 20	0.287	0.129	1.80	9.47	9.50	0.289	2024/12/17	

NOTE: Extremity SAR test results of 5.8G Ant1

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	149/5745	802.11ax HE 20	0.205	0.092	2.73	9.47	9.50	0.206	2024/12/17	
Back Side	149/5745	802.11ax HE 20	0.287	0.129	1.80	9.47	9.50	0.289	2024/12/17	
Right Side	149/5745	802.11ax HE 20	0.120	0.053	1.45	9.47	9.50	0.121	2024/12/17	
Top Side	149/5745	802.11ax HE 20	0.379	0.177	-2.65	9.47	9.50	0.382	2024/12/17	14#

NOTE: Extremity SAR test results of 5.8G Ant1

Ant 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	165/5825	802.11n HT20	0.083	0.049	0.970	9.20	9.50	0.089	2024/12/17	36#
Left Tilt 15 Degree	165/5825	802.11n HT20	0.044	0.026	-0.79	9.20	9.50	0.047	2024/12/17	
Right Cheek	165/5825	802.11n HT20	0.071	0.040	0.12	9.20	9.50	0.076	2024/12/17	
Right Tilt 15 Degree	165/5825	802.11n HT20	0.035	0.020	-0.92	9.20	9.50	0.038	2024/12/17	

NOTE: Extremity SAR test results of 5.8G Ant2

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	802.11n HT20	0.174	0.099	0.71	9.20	9.50	0.186	2024/12/17	
Back Side	165/5825	802.11n HT20	0.084	0.047	-3.24	9.20	9.50	0.090	2024/12/17	

NOTE: Extremity SAR test results of 5.8G Ant2

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	165/5825	802.11n HT20	0.174	0.099	0.71	9.20	9.50	0.186	2024/12/17	
Back Side	165/5825	802.11n HT20	0.084	0.047	-3.24	9.20	9.50	0.090	2024/12/17	
Right Side	165/5825	802.11n HT20	0.096	0.055	1.64	9.20	9.50	0.103	2024/12/17	

Top Side	157/5785	802.11a	0.276	0.158	-3.53	9.20	9.50	0.296	2024/12/17	41#
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NOTE: Extremity SAR test results of 5.8G Ant2

MIMO

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	159/5795	802.11n HT40	0.260	0.168	-2.850	13.76	14.00	0.275	2024/12/17	38#
Left Tilt 15 Degree	159/5795	802.11n HT40	0.148	0.093	0.12	13.76	14.00	0.156	2024/12/17	
Right Cheek	159/5795	802.11n HT40	0.239	0.147	-3.11	13.76	14.00	0.253	2024/12/17	
Right Tilt 15 Degree	159/5795	802.11n HT40	0.115	0.073	1.74	13.76	14.00	0.122	2024/12/17	

NOTE: Extremity SAR test results of 5.8G MIMO

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	159/5795	802.11n HT40	0.420	0.190	-3.24	13.76	14.00	0.444	2024/12/17	
Back Side	159/5795	802.11n HT40	0.207	0.094	-0.39	13.76	14.00	0.219	2024/12/17	

NOTE: Extremity SAR test results of 5.8G MIMO

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	159/5795	802.11n HT40	0.420	0.190	-3.24	13.76	14.00	0.444	2024/12/17	
Back Side	159/5795	802.11n HT40	0.207	0.094	-0.39	13.76	14.00	0.219	2024/12/17	
Right Side	159/5795	802.11n HT40	0.216	0.100	0.82	13.76	14.00	0.228	2024/12/17	

Top Side	157/5785	802.11n HT40	0.678	0.319	2.04	13.76	14.00	0.717	2024/12/17	39#
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NOTE: Extremity SAR test results of 5.8G MIMO

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	0.195	0.311	0.506	N/A	N/A
	Left Tilt 15 Degree	0.106	0.158	0.264	N/A	N/A
	Right Cheek	0.179	0.269	0.448	N/A	N/A
	Right Tilt 15 Degree	0.096	0.124	0.220	N/A	N/A
Body-Worn	Front Side	0.283	0.131	0.414	N/A	N/A
	Back Side	0.757	0.069	0.826	N/A	N/A
Hotspot	Front Side	0.283	0.131	0.414	N/A	N/A
	Back Side	0.757	0.069	0.826	N/A	N/A
	Left Side	0.184	N/A	0.184	N/A	N/A
	Right Side	0.130	0.083	0.213	N/A	N/A
	Top Side	N/A	0.177	0.177	N/A	N/A
	Bottom Side	0.579	N/A	0.535	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.195	0.731	0.926	N/A	N/A
	Left Tilt 15 Degree	0.106	0.380	0.486	N/A	N/A

	Right Cheek	0.179	0.659	0.838	N/A	N/A
	Right Tilt 15 Degree	0.096	0.321	0.417	N/A	N/A
Body-Worn	Front Side	0.283	0.444	0.727	N/A	N/A
	Back Side	0.757	0.343	1.100	N/A	N/A
Hotspot	Front Side	0.283	0.444	0.727	N/A	N/A
	Back Side	0.757	0.343	1.100	N/A	N/A
	Left Side	0.184	N/A	0.184	N/A	N/A
	Right Side	0.130	0.228	0.358	N/A	N/A
	Top Side	N/A	0.717	0.717	N/A	N/A
	Bottom Side	0.535	N/A	0.535	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.195	0.105	0.300	N/A	N/A
	Left Tilt 15 Degree	0.106	0.105	0.211	N/A	N/A
	Right Cheek	0.179	0.105	0.284	N/A	N/A
	Right Tilt 15 Degree	0.096	0.105	0.201	N/A	N/A
Body-Worn	Front Side	0.283	0.053	0.336	N/A	N/A
	Back Side	0.757	0.053	0.81	N/A	N/A
Hotspot	Front Side	0.283	0.053	0.336	N/A	N/A
	Back Side	0.757	0.053	0.81	N/A	N/A
	Left Side	0.184	N/A	0.184	N/A	N/A
	Right Side	0.130	0.053	0.183	N/A	N/A
	Top Side	N/A	0.053	0.053	N/A	N/A
	Bottom Side	0.535	N/A	0.535	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
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MEASUREMENT 3 System Performance Check - 1800MHz
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MEASUREMENT 5 System Performance Check - 1900MHz
MEASUREMENT 6 System Performance Check - 1900MHz
MEASUREMENT 7 System Performance Check - 2450MHz
MEASUREMENT 8 System Performance Check - 2600MHz
MEASUREMENT 9 System Performance Check - 5200MHz
MEASUREMENT 10 System Performance Check - 5800MHz

MEASUREMENT 1

Date of measurement: 13/12/2024

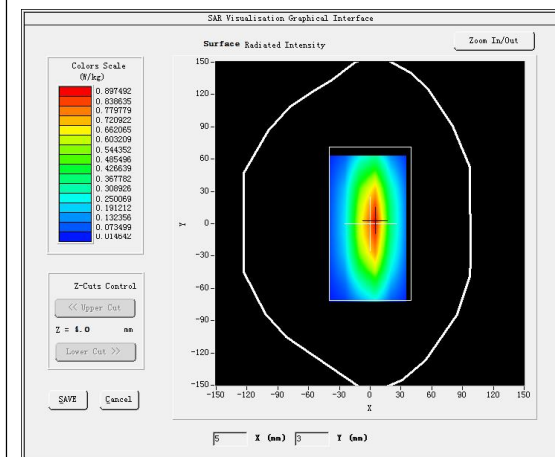
A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW750</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.42</u>

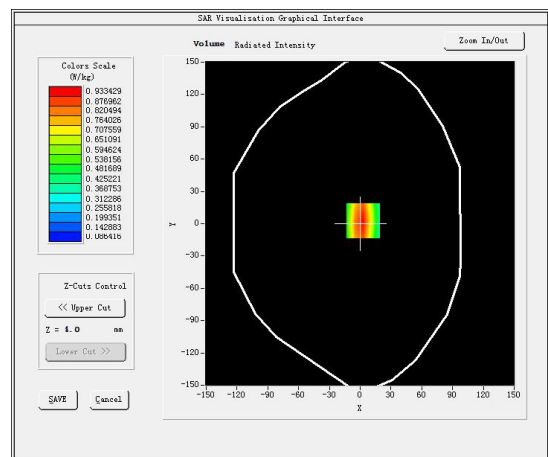
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	40.772003
Relative permittivity (imaginary part)	21.548546
Conductivity (S/m)	0.897856
Variation (%)	-0.560000

SURFACE SAR



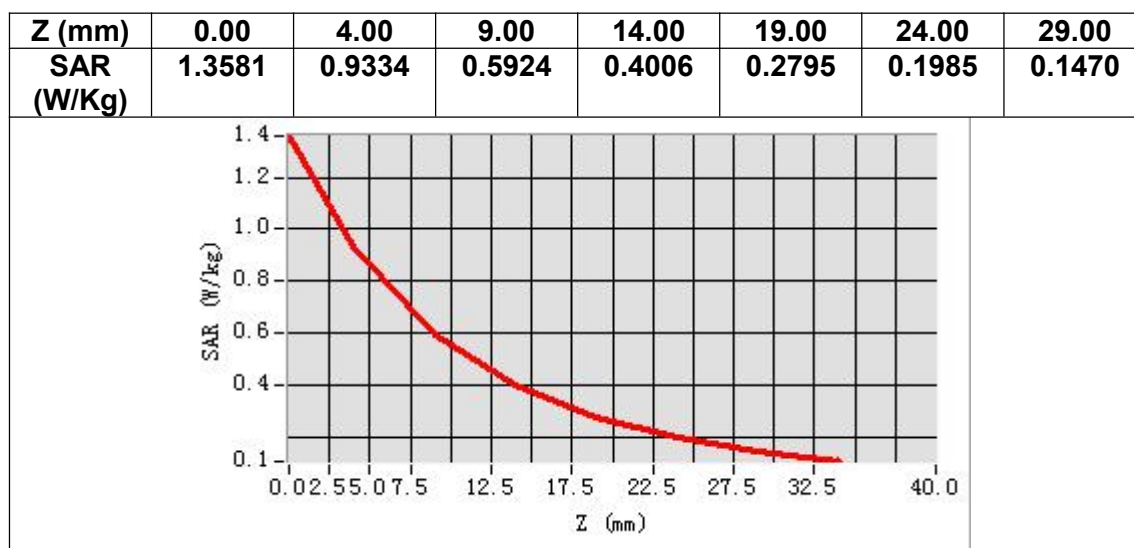
VOLUME SAR



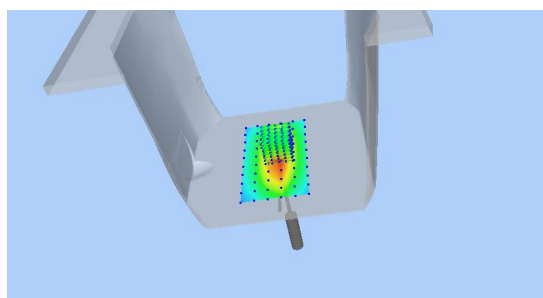
Maximum location: X=3.00, Y=3.00

SAR Peak: 1.36 W/kg

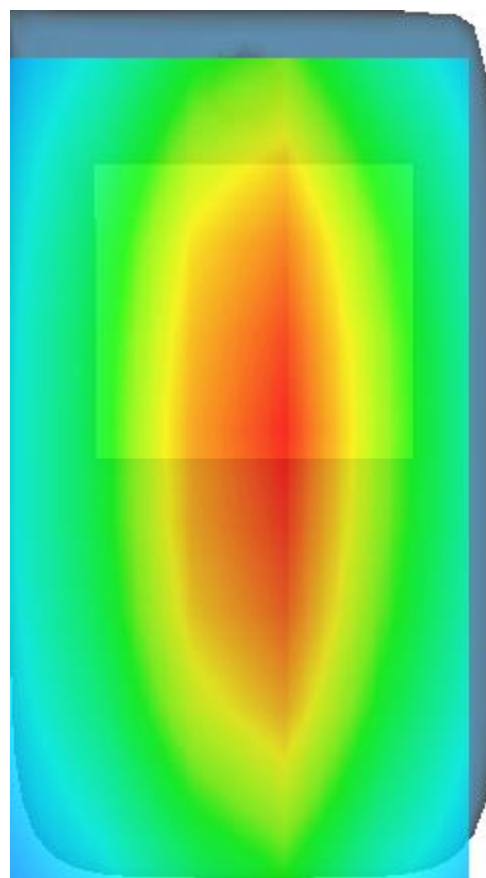
SAR 10g (W/Kg)	0.553716
SAR 1g (W/Kg)	0.905030



3D screen shot



Hot spot position



MEASUREMENT 2

Date of measurement: 27/12/2024

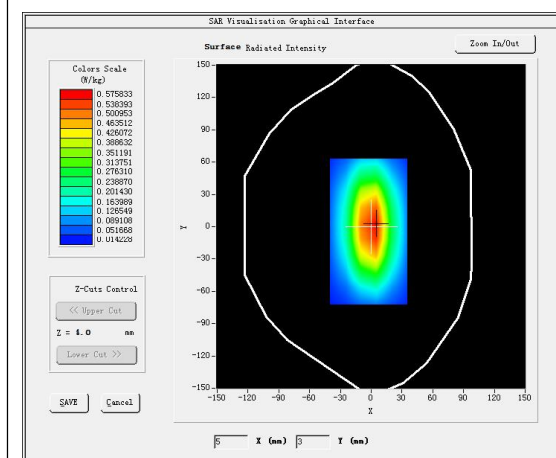
A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW835</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.34</u>

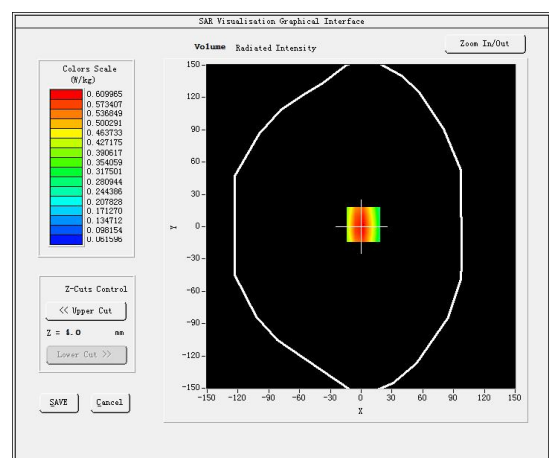
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.827047
Relative permittivity (imaginary part)	19.592773
Conductivity (S/m)	0.908887
Variation (%)	-0.250000

SURFACE SAR



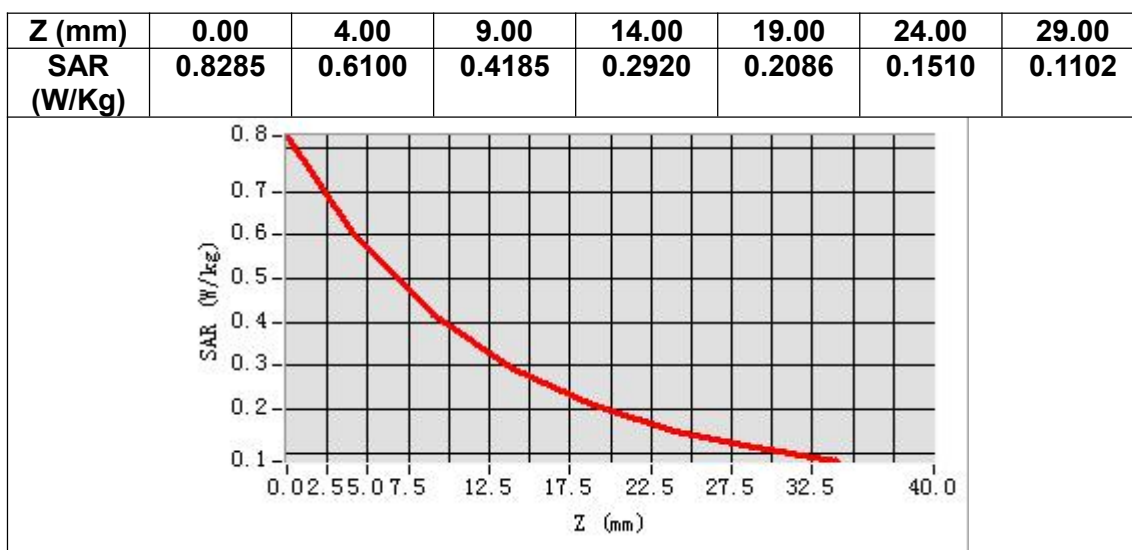
VOLUME SAR



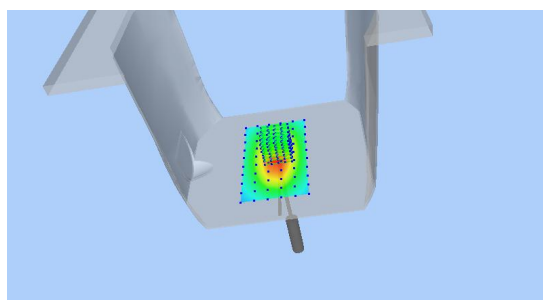
Maximum location: X=2.00, Y=2.00

SAR Peak: 0.84 W/kg

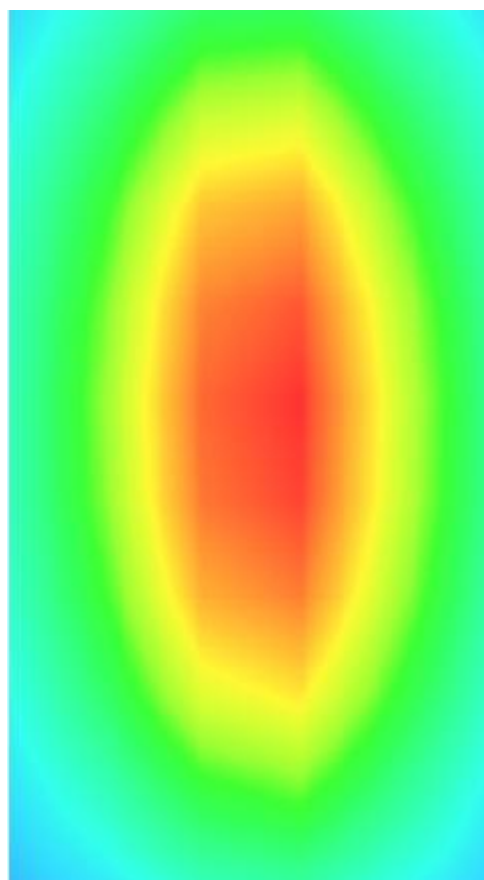
SAR 10g (W/Kg)	0.383559
SAR 1g (W/Kg)	0.595418



3D screen shot



Hot spot position



MEASUREMENT 3

Date of measurement: 6/12/2024

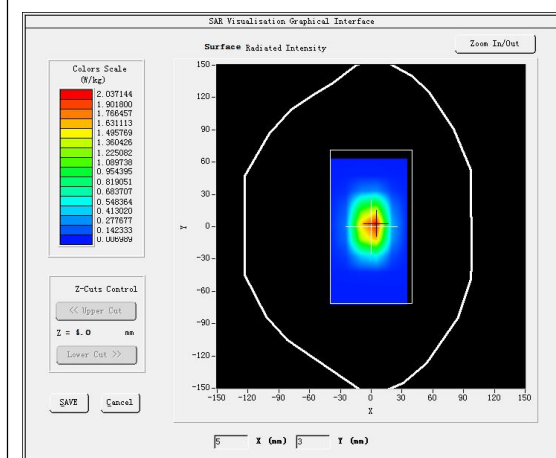
A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW1800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

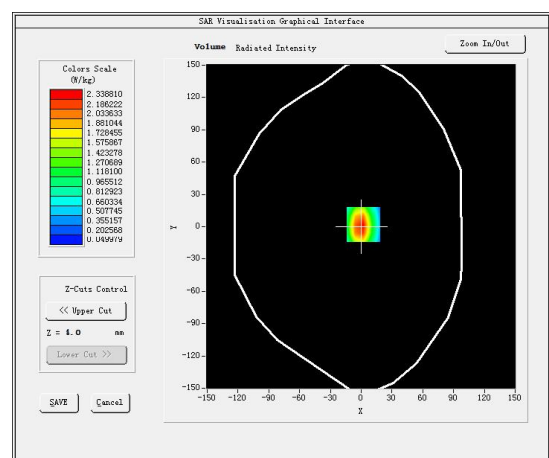
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.970183
Relative permittivity (imaginary part)	13.747547
Conductivity (S/m)	1.374755
Variation (%)	-1.030000

SURFACE SAR



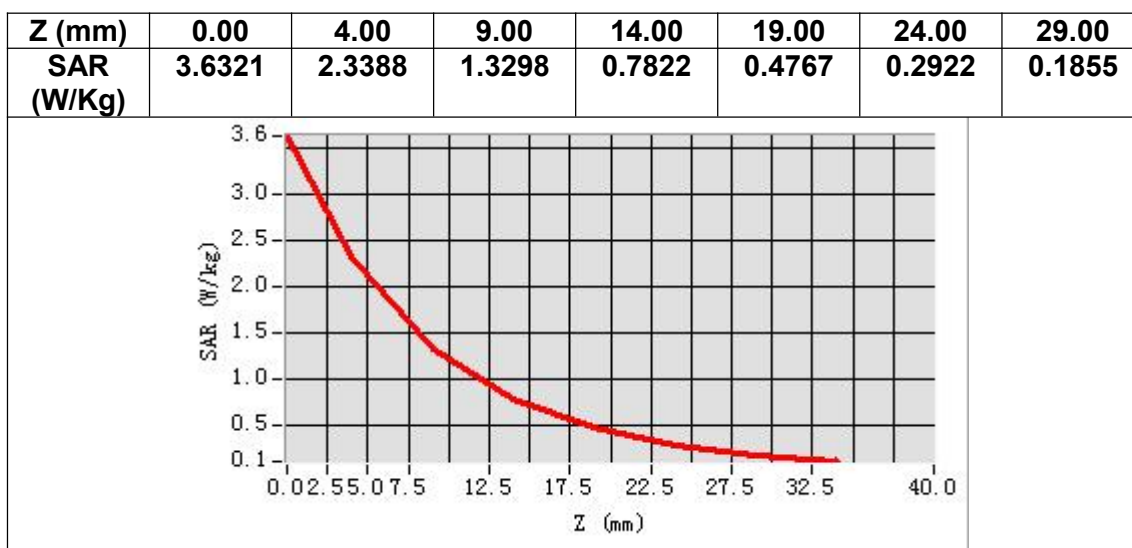
VOLUME SAR



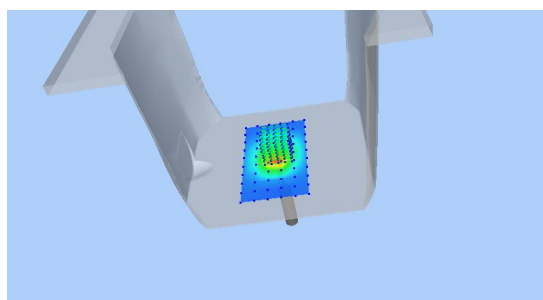
Maximum location: X=2.00, Y=2.00

SAR Peak: 3.77 W/kg

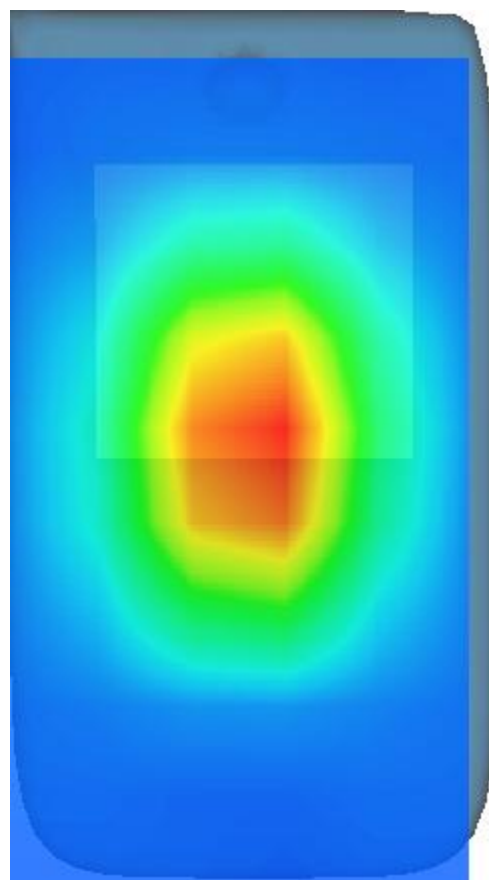
SAR 10g (W/Kg)	1.175927
SAR 1g (W/Kg)	2.272606



3D screen shot



Hot spot position



MEASUREMENT 4

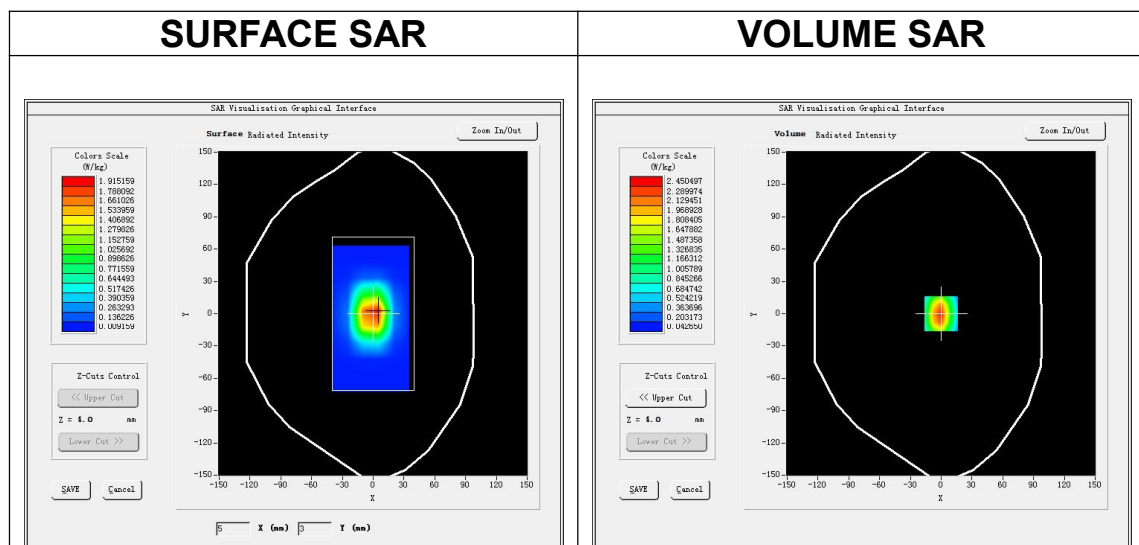
Date of measurement: 9/12/2024

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>2.57</u>

B. SAR Measurement Results

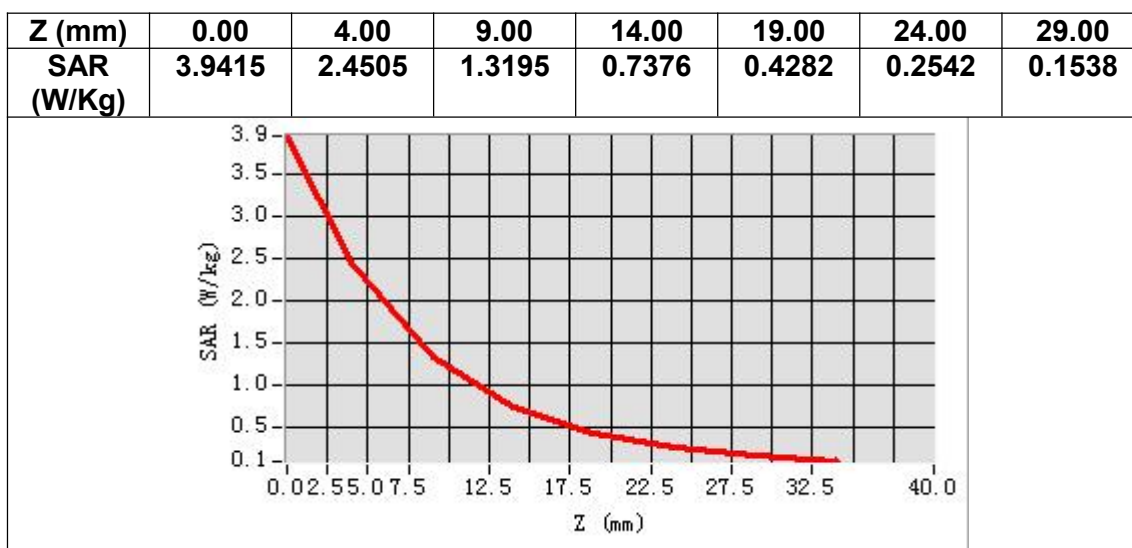
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.457178
Relative permittivity (imaginary part)	13.792131
Conductivity (S/m)	1.455836
Variation (%)	-0.210000



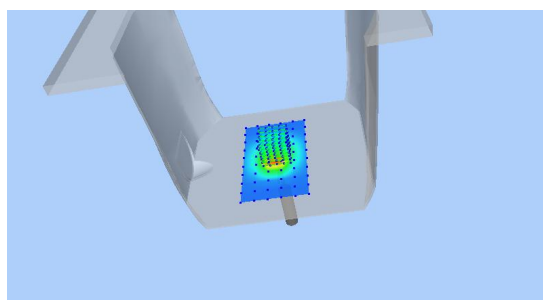
Maximum location: X=0.00, Y=0.00

SAR Peak: 3.97 W/kg

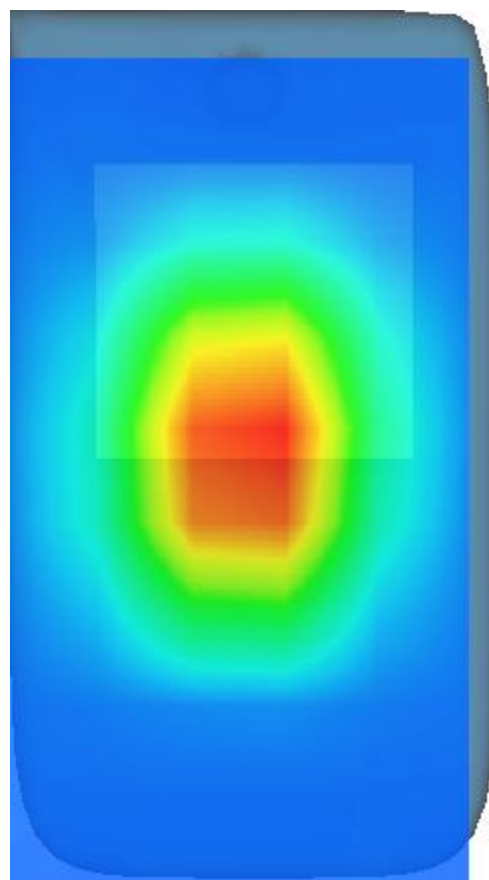
SAR 10g (W/Kg)	1.181231
SAR 1g (W/Kg)	2.396499



3D screen shot



Hot spot position



MEASUREMENT 5

Date of measurement: 12/12/2024

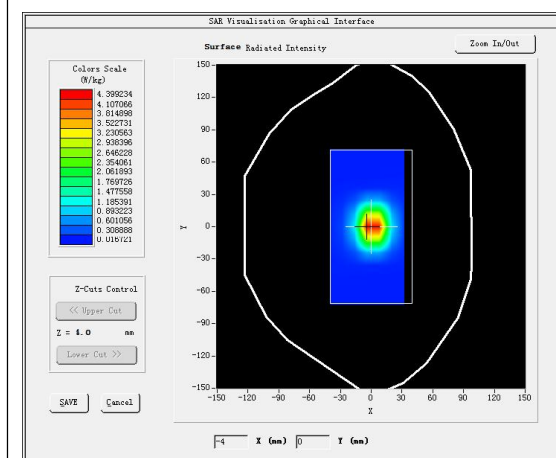
A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2450</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.74</u>

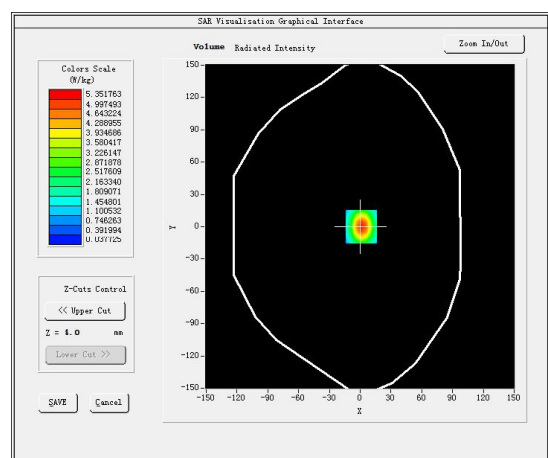
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.814490
Relative permittivity (imaginary part)	13.088029
Conductivity (S/m)	1.781426
Variation (%)	-0.120000

SURFACE SAR



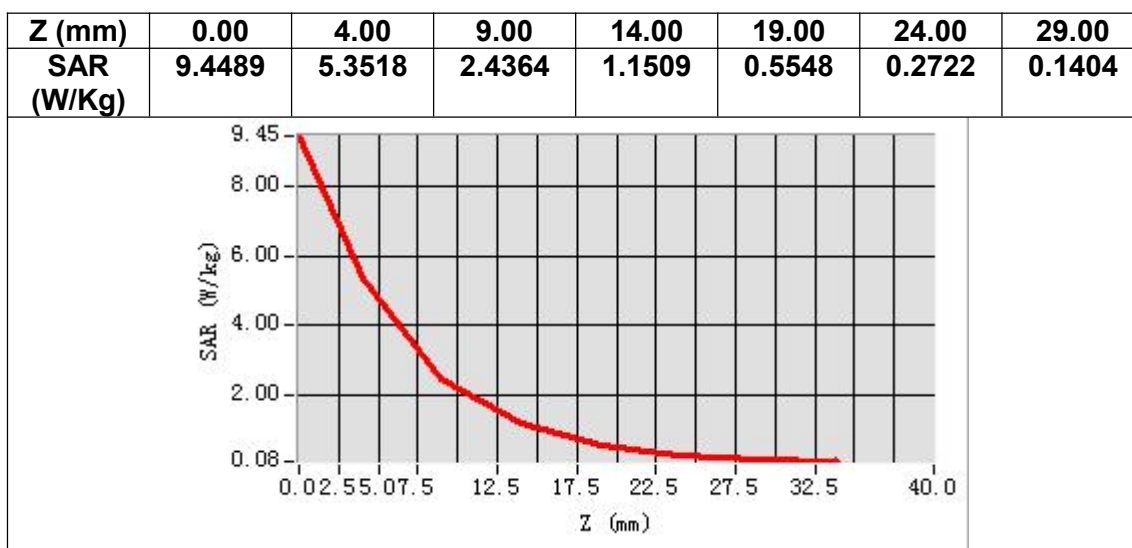
VOLUME SAR



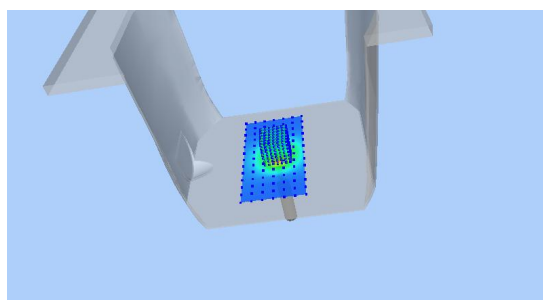
Maximum location: X=1.00, Y=0.00

SAR Peak: 9.35 W/kg

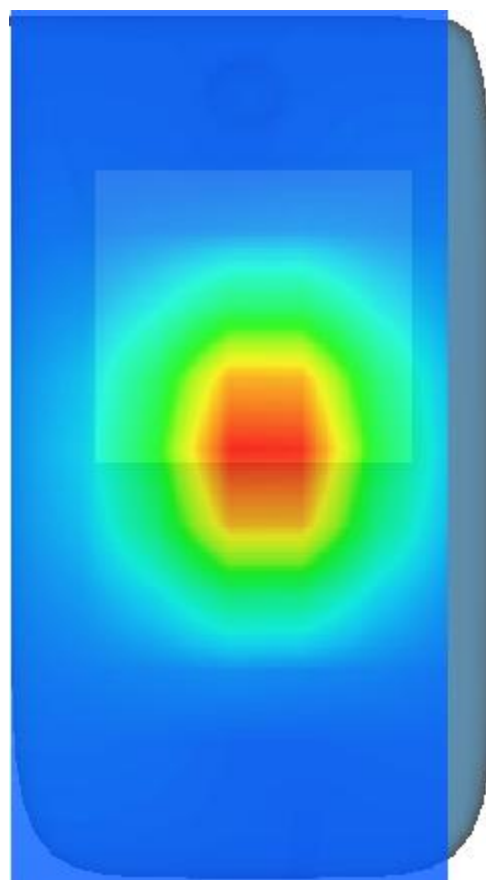
SAR 10g (W/Kg)	2.216730
SAR 1g (W/Kg)	4.962190



3D screen shot



Hot spot position



MEASUREMENT 6

Date of measurement: 16/12/2024

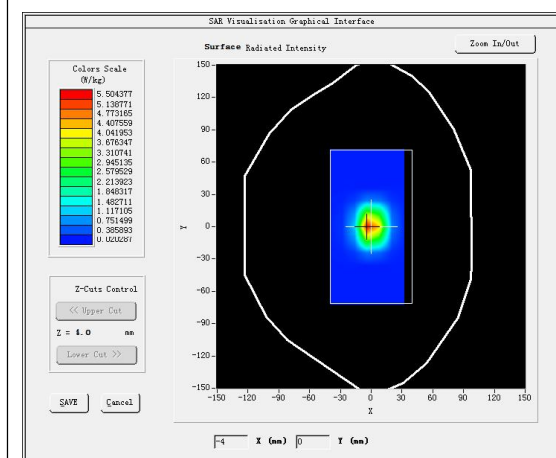
A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2600</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

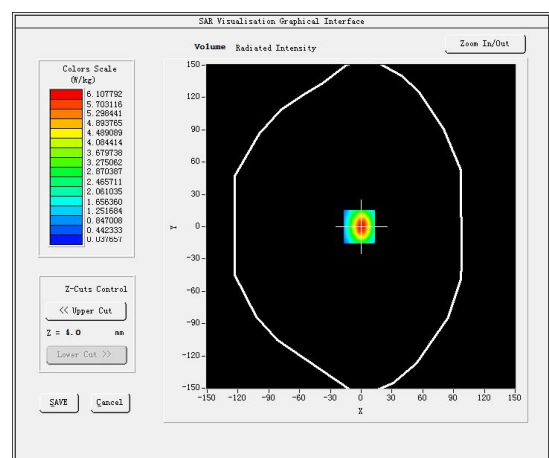
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.780921
Relative permittivity (imaginary part)	13.634014
Conductivity (S/m)	1.969358
Variation (%)	0.060000

SURFACE SAR



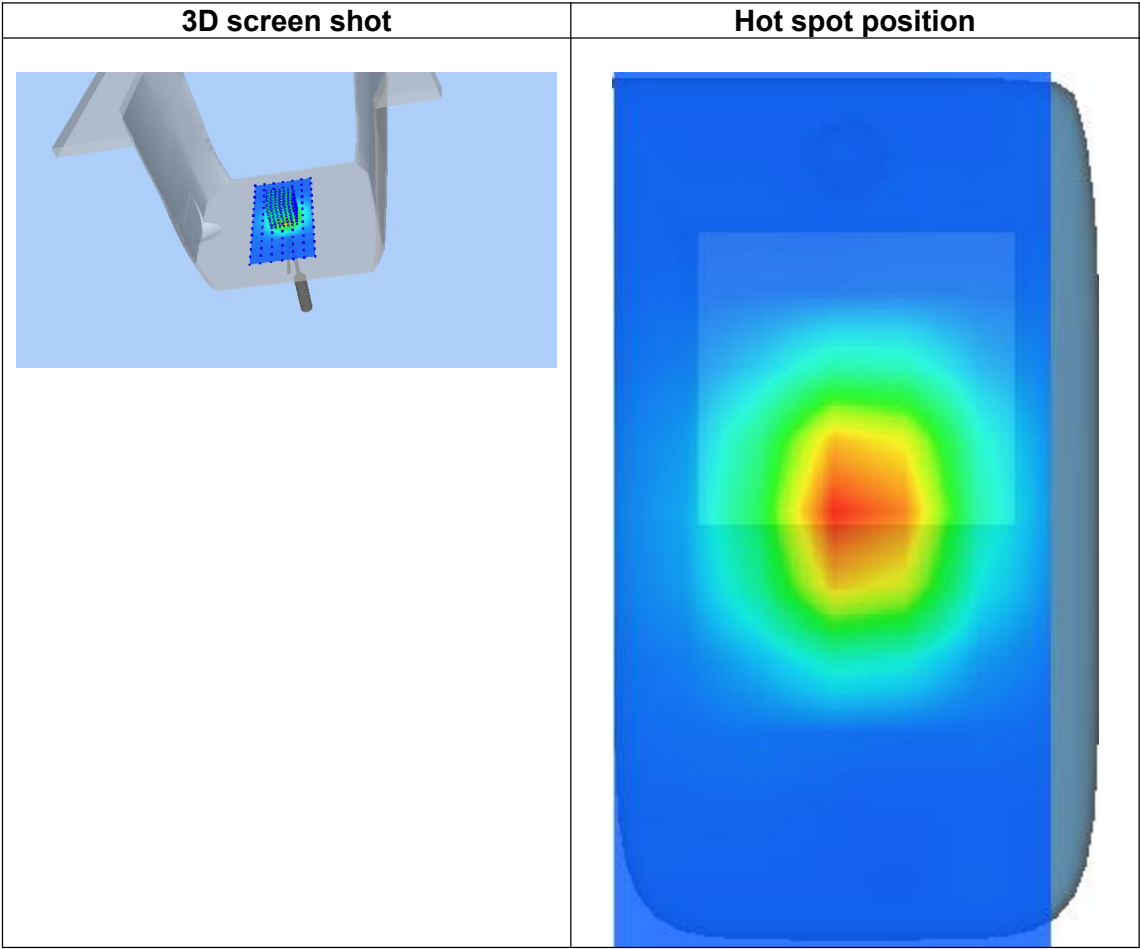
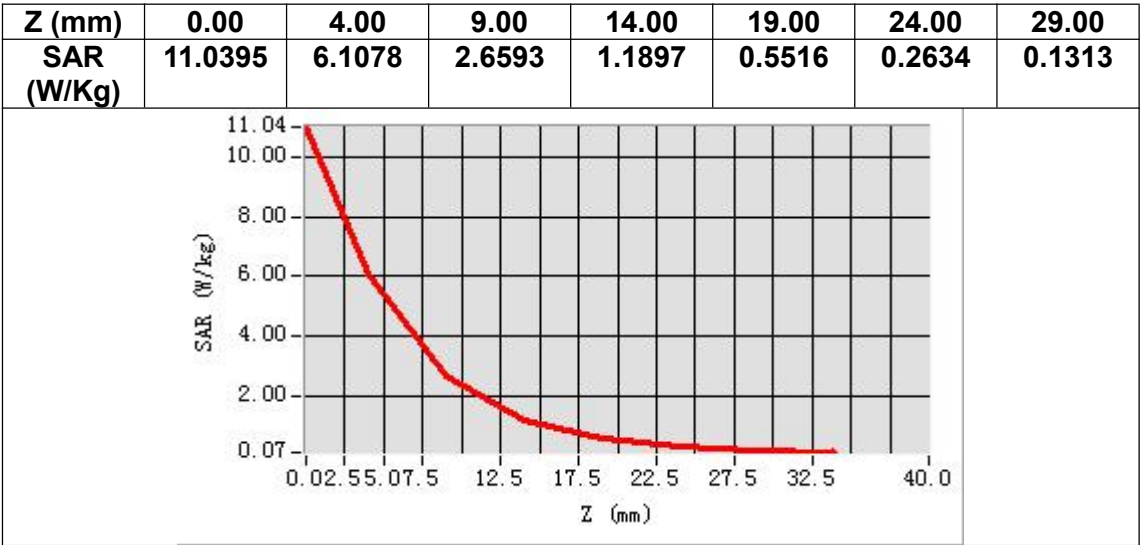
VOLUME SAR



Maximum location: X=-2.00, Y=0.00

SAR Peak: 11.37 W/kg

SAR 10g (W/Kg)	2.451632
SAR 1g (W/Kg)	5.858735



MEASUREMENT 7

Date of measurement: 27/12/2024

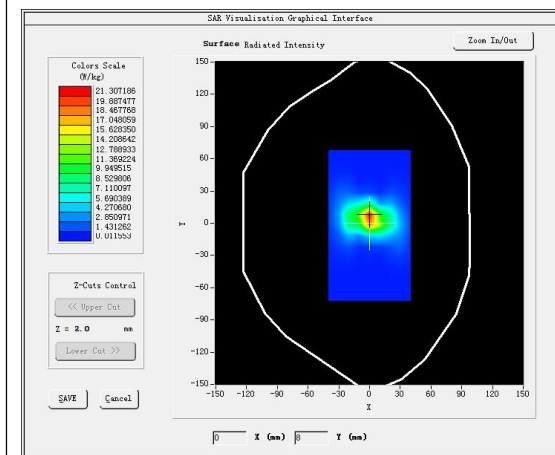
A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW5200</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.89</u>

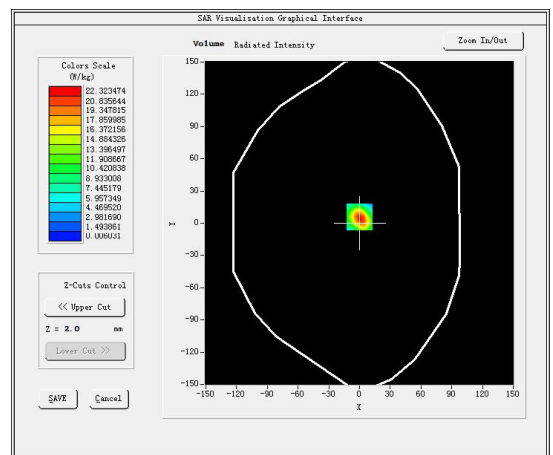
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.652485
Relative permittivity (imaginary part)	15.561054
Conductivity (S/m)	4.4954156
Variation (%)	1.590000

SURFACE SAR



VOLUME SAR

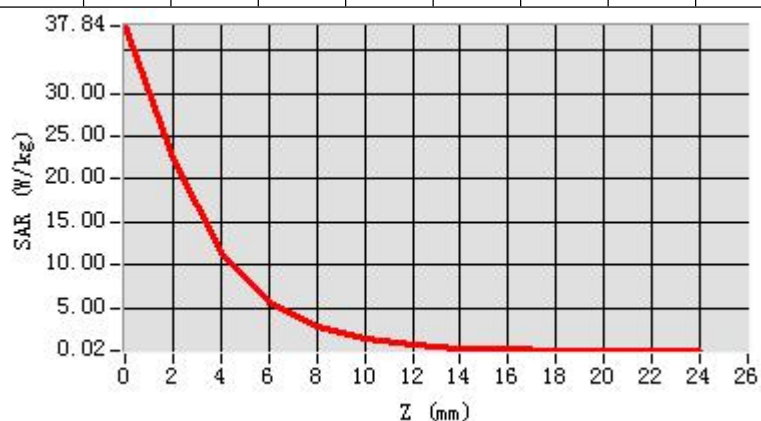


Maximum location: X=0.00, Y=6.00

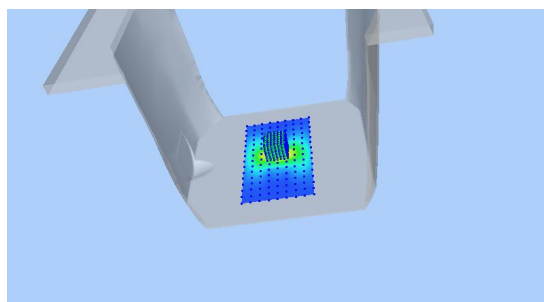
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.450374
SAR 1g (W/Kg)	15.653564

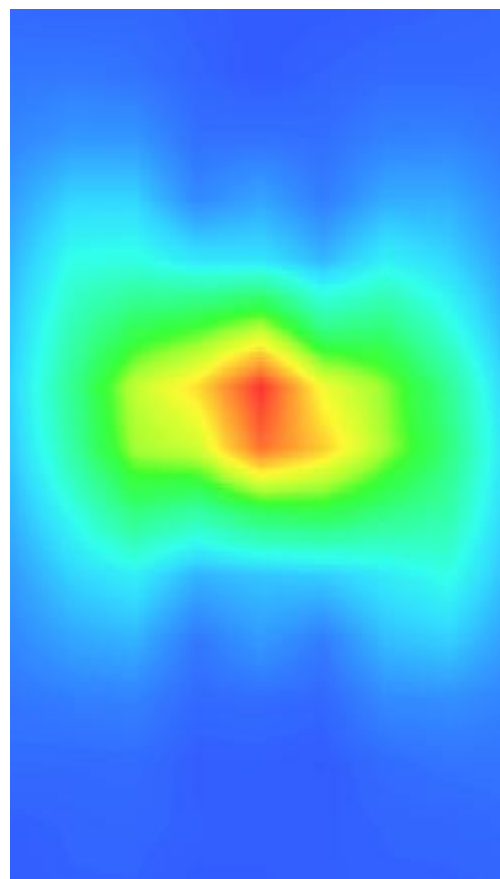
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	37.8 356	22.3 278	11.3 730	5.66 18	2.82 55	1.40 93	0.71 24	0.36 60	0.18 08	0.10 12	0.05 13	0.03 23



3D screen shot



Hot spot position



MEASUREMENT 8

Date of measurement: 17/12/2024

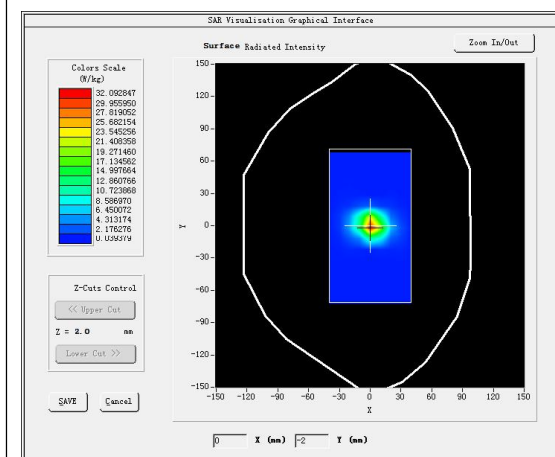
A. Experimental conditions.

<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>1.90</u>

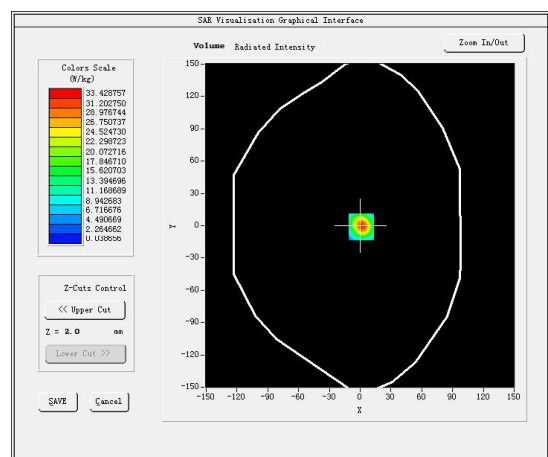
B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	33.903621
Relative permittivity (imaginary part)	15.920115
Conductivity (S/m)	5.129815
Variation (%)	-0.570000

SURFACE SAR



VOLUME SAR

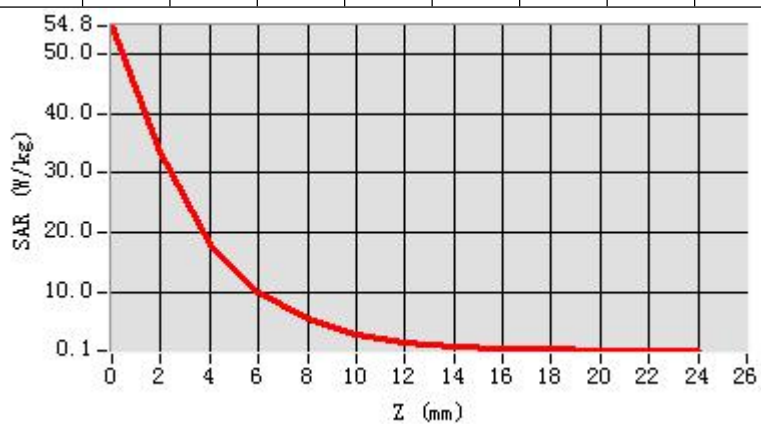


Maximum location: X=1.00, Y=-1.00

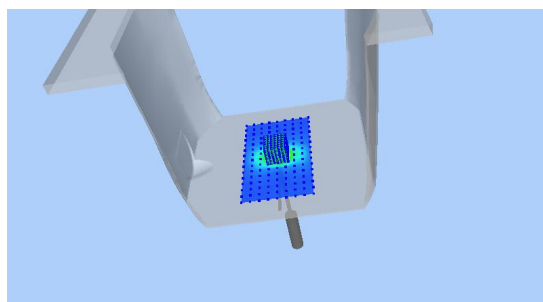
SAR Peak: 57.36 W/kg

SAR 10g (W/Kg)	6.479202
SAR 1g (W/Kg)	19.064737

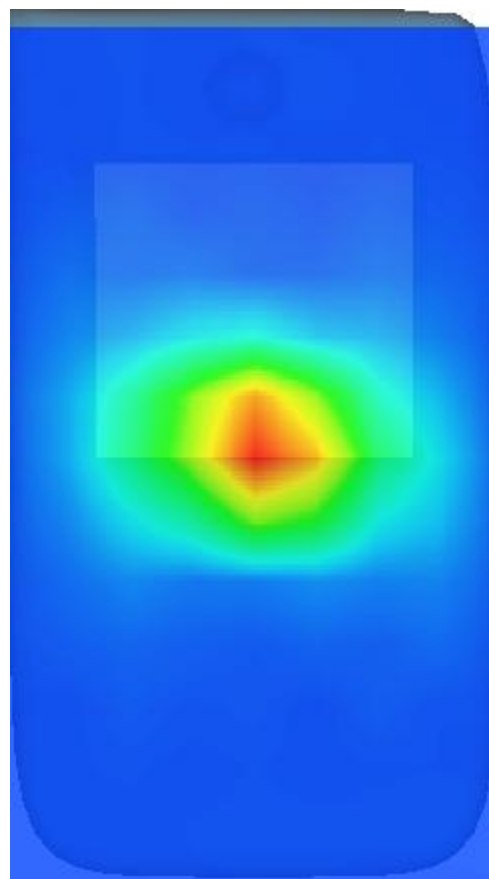
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SA R (W/ Kg)	54.7 514	33.4 288	18.0 436	9.93 51	5.34 74	2.90 17	1.57 54	0.86 53	0.49 65	0.28 88	0.19 06	0.10 46



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

Date of measurement: 11/12/2024

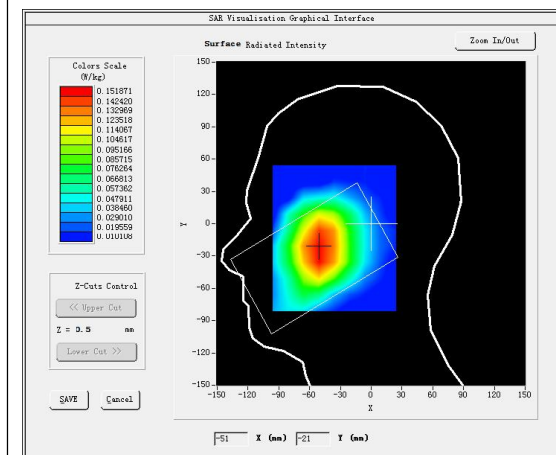
A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 8.0)</u>
ConvF	<u>2.34</u>

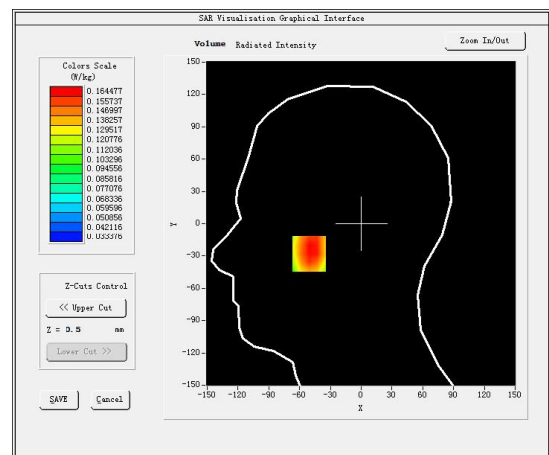
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.742706
Relative permittivity (imaginary part)	19.618612
Conductivity (S/m)	0.911612
Variation (%)	3.420000

SURFACE SAR



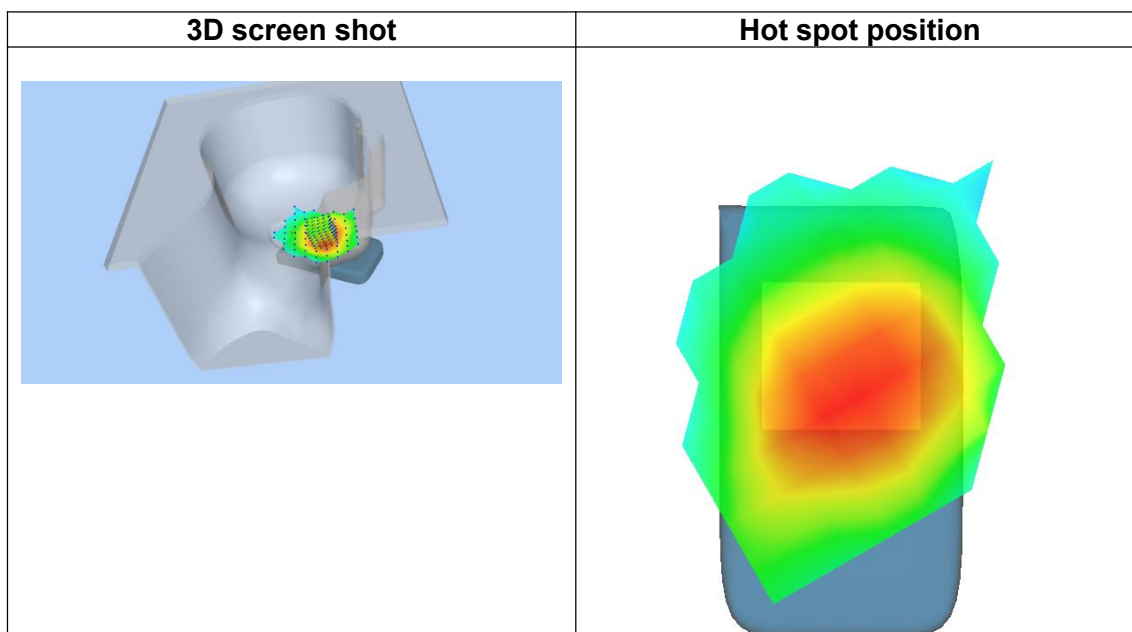
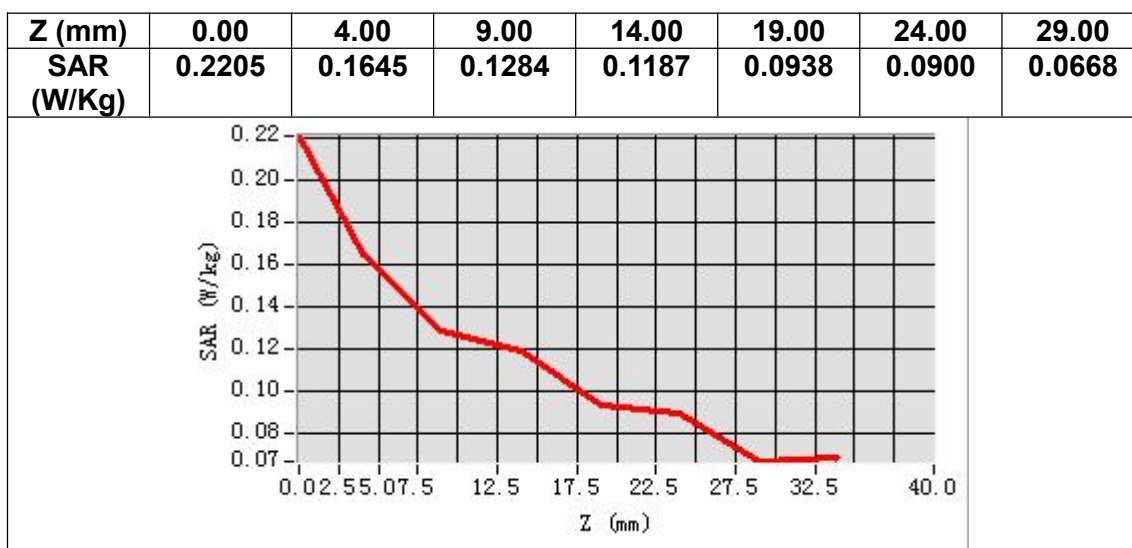
VOLUME SAR



Maximum location: X=-51.00, Y=-28.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.130066
SAR 1g (W/Kg)	0.164002



MEASUREMENT 2

Date of measurement: 11/12/2024

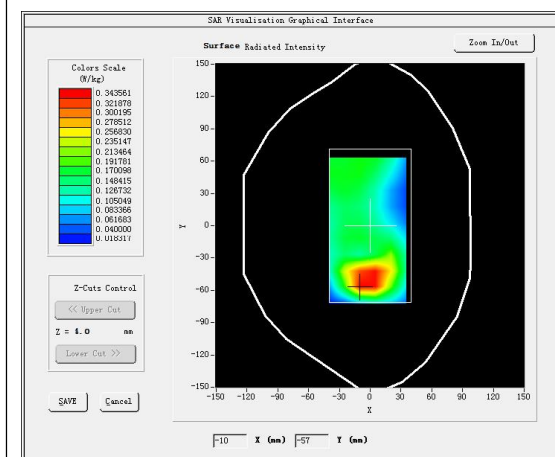
A. Experimental conditions.

<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: 8.0)</u>
<u>ConvF</u>	<u>2.34</u>

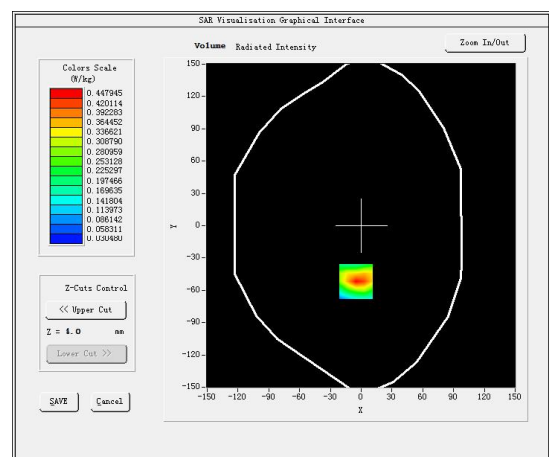
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.742706
Relative permittivity (imaginary part)	19.618612
Conductivity (S/m)	0.911612
Variation (%)	-0.540000

SURFACE SAR



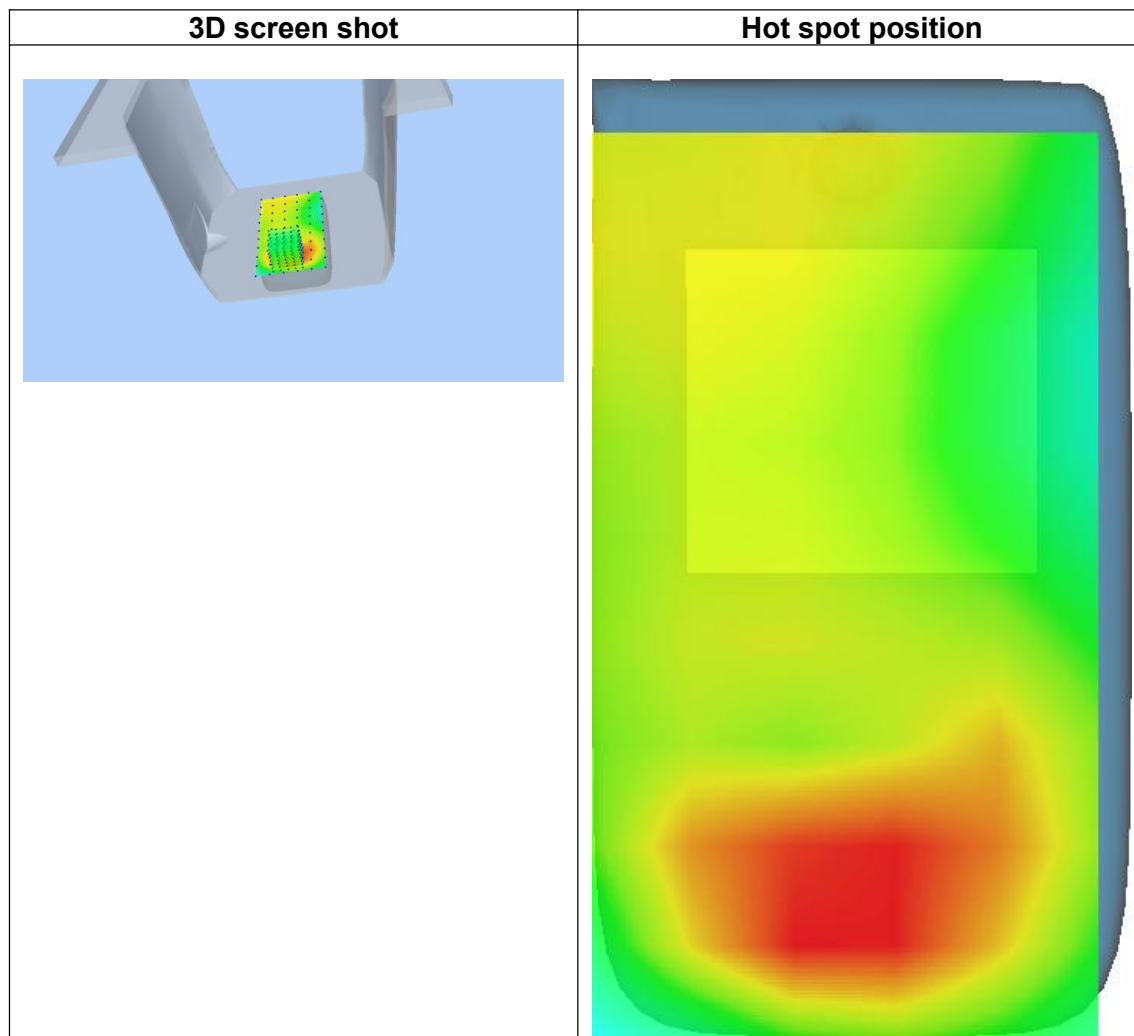
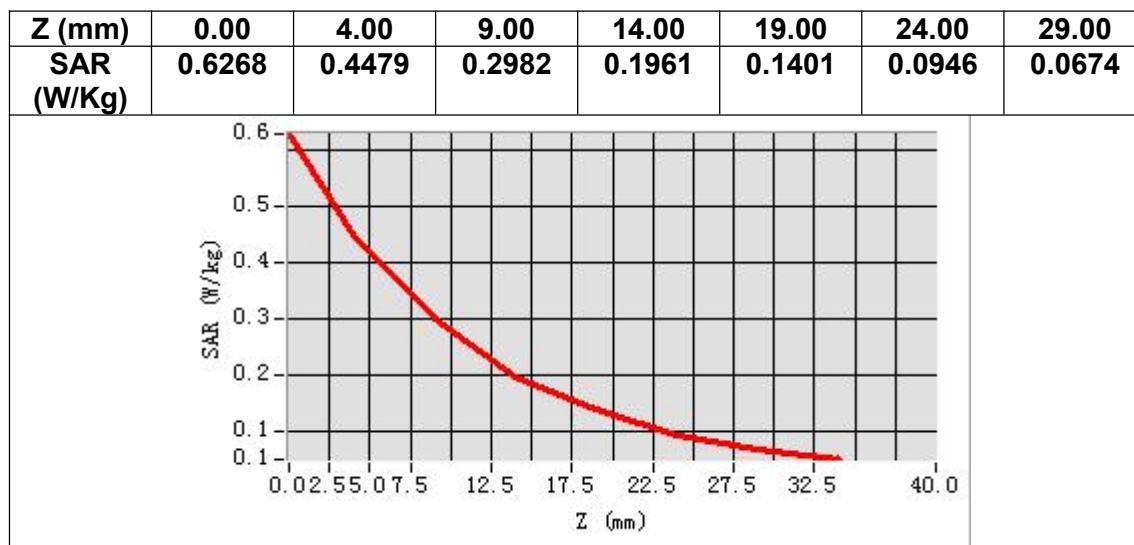
VOLUME SAR



Maximum location: X=-5.00, Y=-52.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.247424
SAR 1g (W/Kg)	0.418375



MEASUREMENT 3

Date of measurement: 26/12/2024

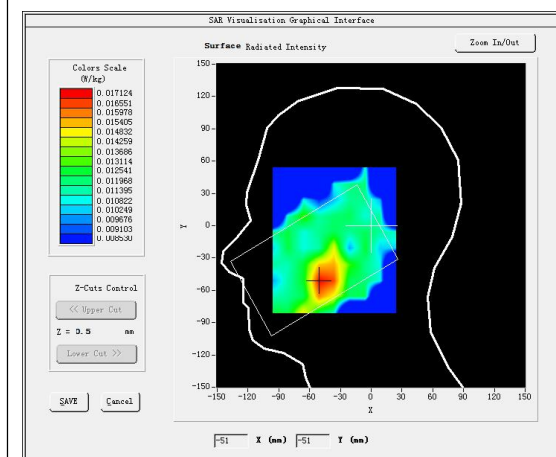
A. Experimental conditions.

<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: 8.0)</u>
<u>ConvF</u>	<u>2.57</u>

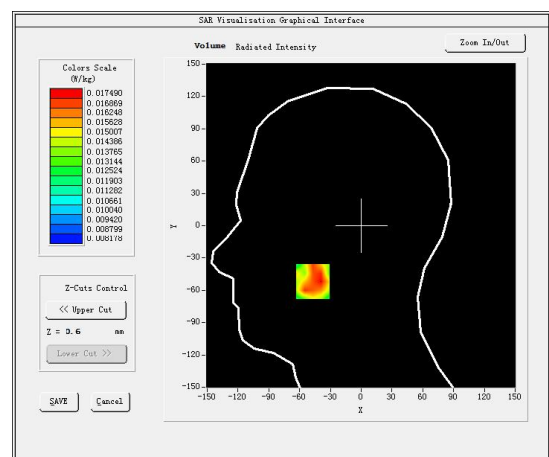
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.611801
Relative permittivity (imaginary part)	13.870998
Conductivity (S/m)	1.448749
Variation (%)	0.960000

SURFACE SAR



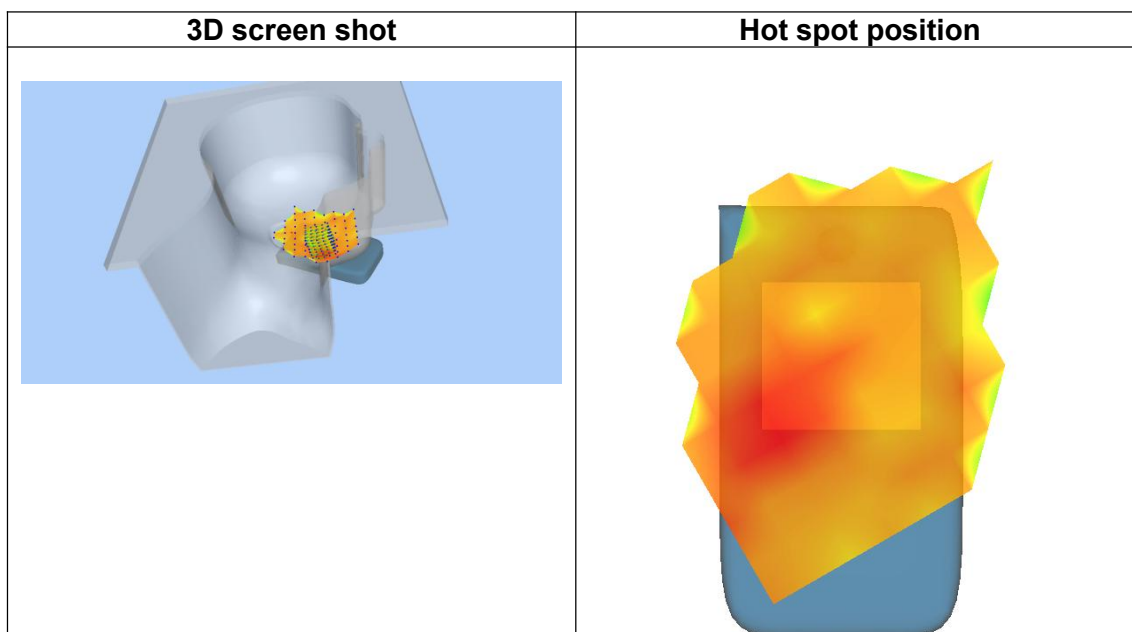
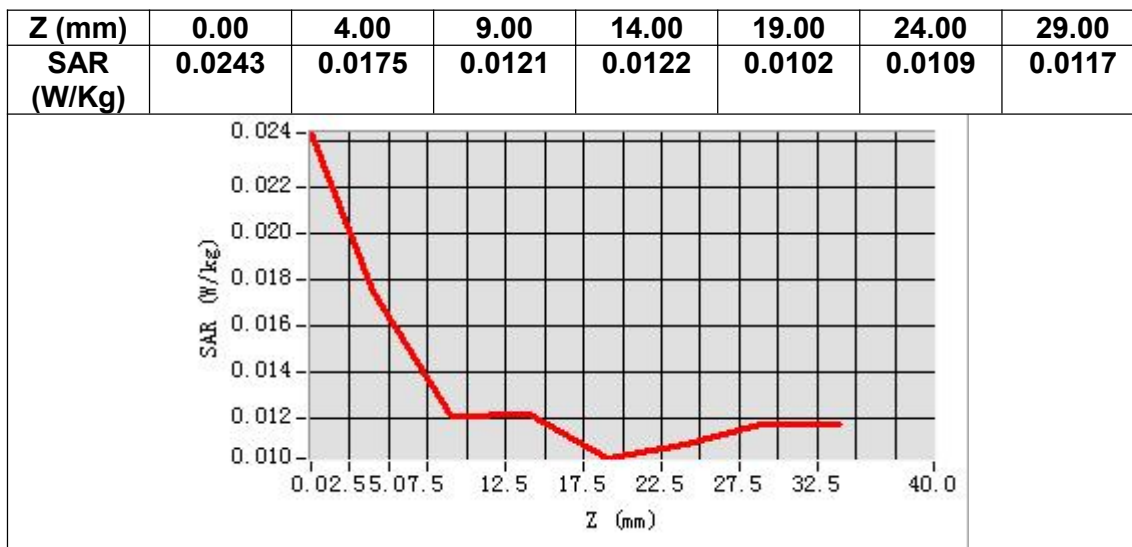
VOLUME SAR



Maximum location: X=-47.00, Y=-52.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.014201
SAR 1g (W/Kg)	0.018938



MEASUREMENT 4

Date of measurement: 11/12/2024

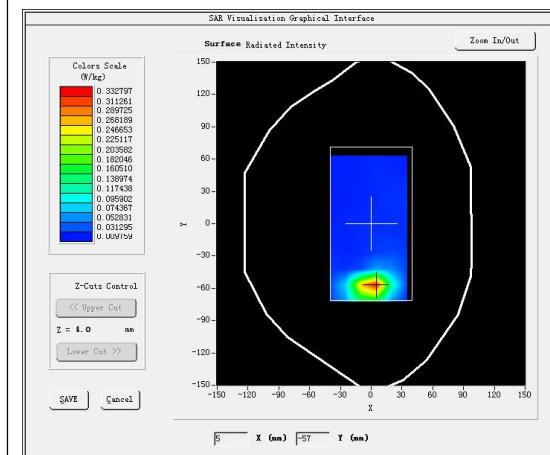
A. Experimental conditions.

<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: 8.0)</u>
<u>ConvF</u>	<u>2.57</u>

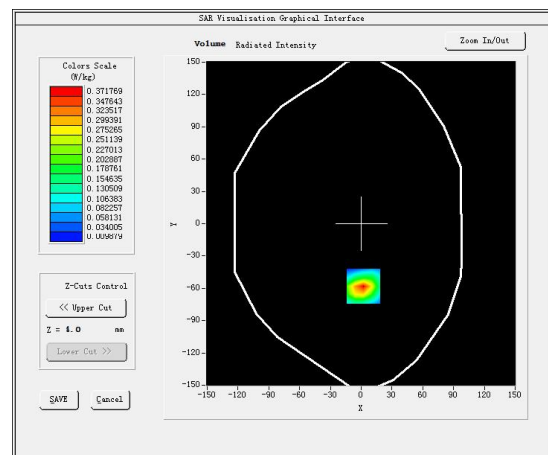
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.611801
Relative permittivity (imaginary part)	13.870998
Conductivity (S/m)	1.448749
Variation (%)	-2.330000

SURFACE SAR



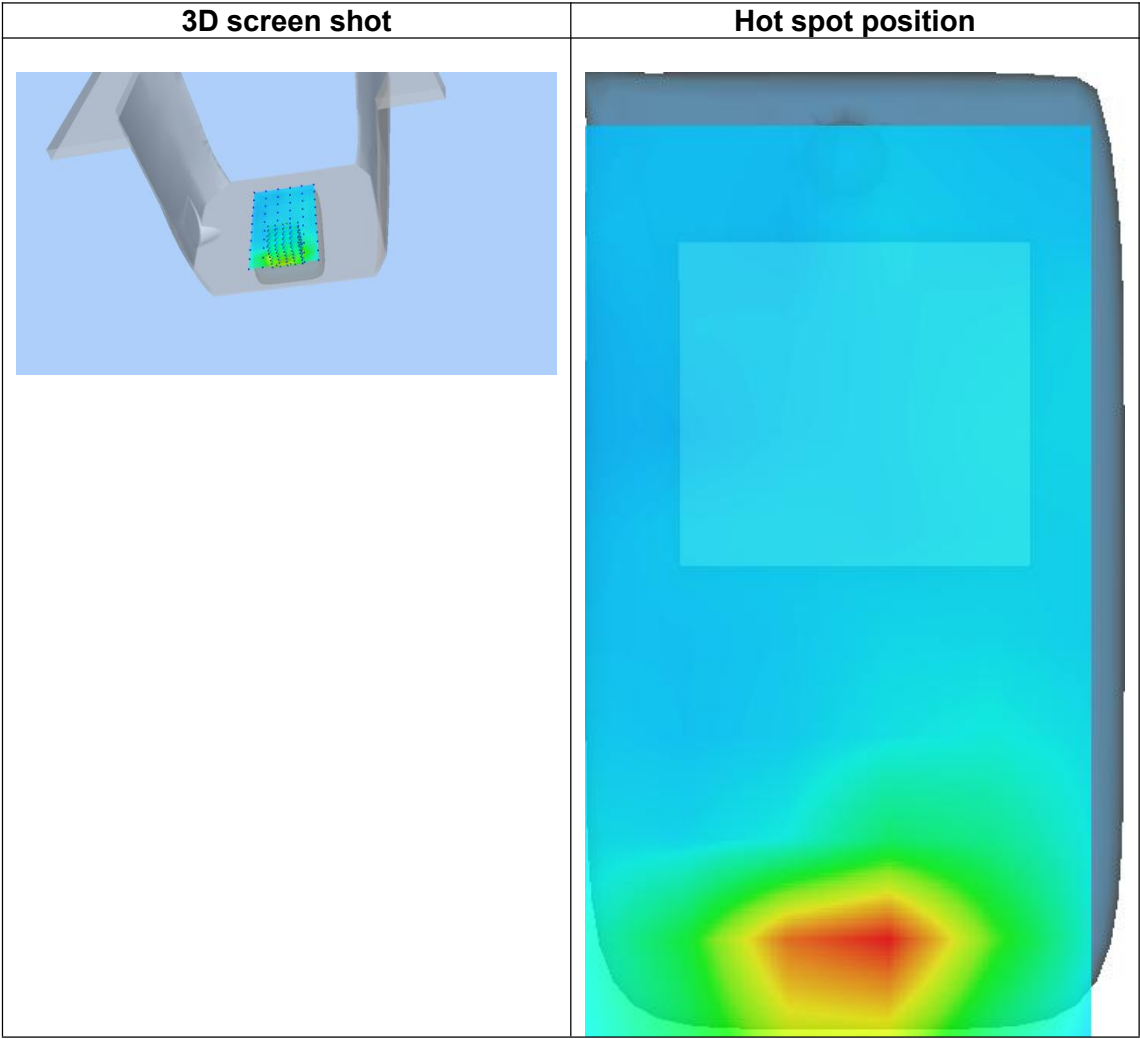
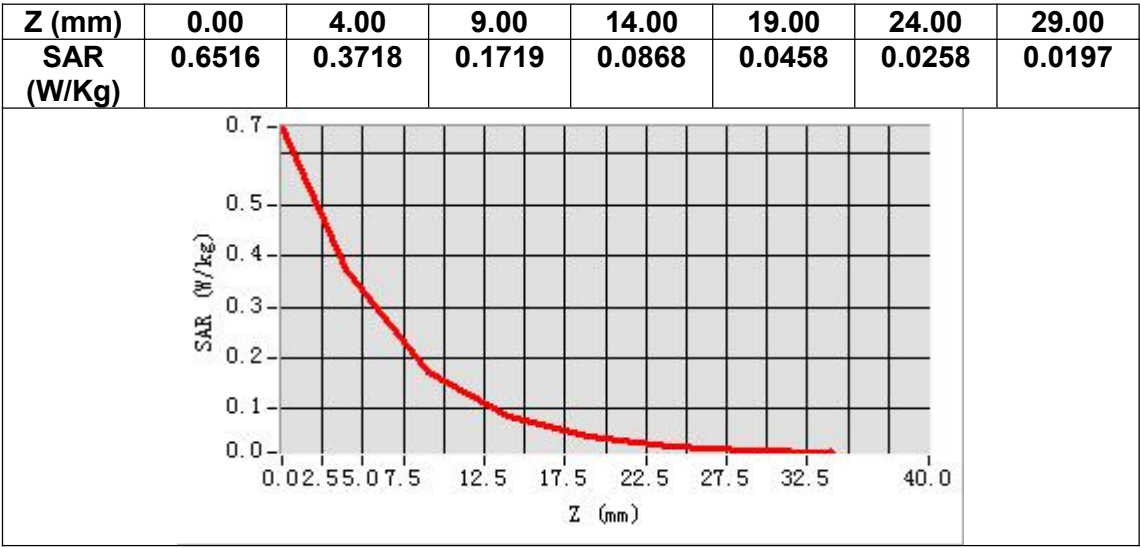
VOLUME SAR



Maximum location: X=2.00, Y=-58.00

SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.154474
SAR 1g (W/Kg)	0.351033



MEASUREMENT 5

Date of measurement: 26/12/2024

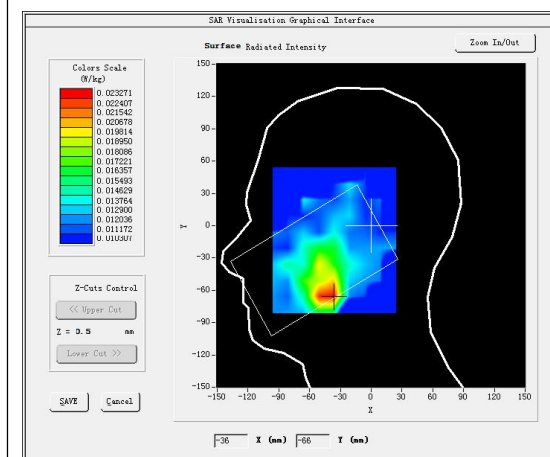
A. Experimental conditions.

<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>2.57</u>

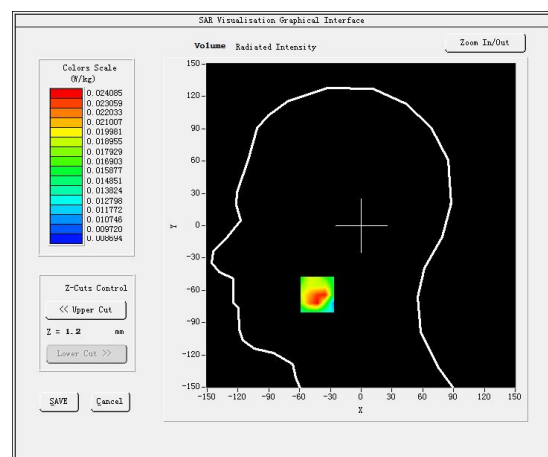
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.611801
Relative permittivity (imaginary part)	13.870998
Conductivity (S/m)	1.448749
Variation (%)	-3.310000

SURFACE SAR



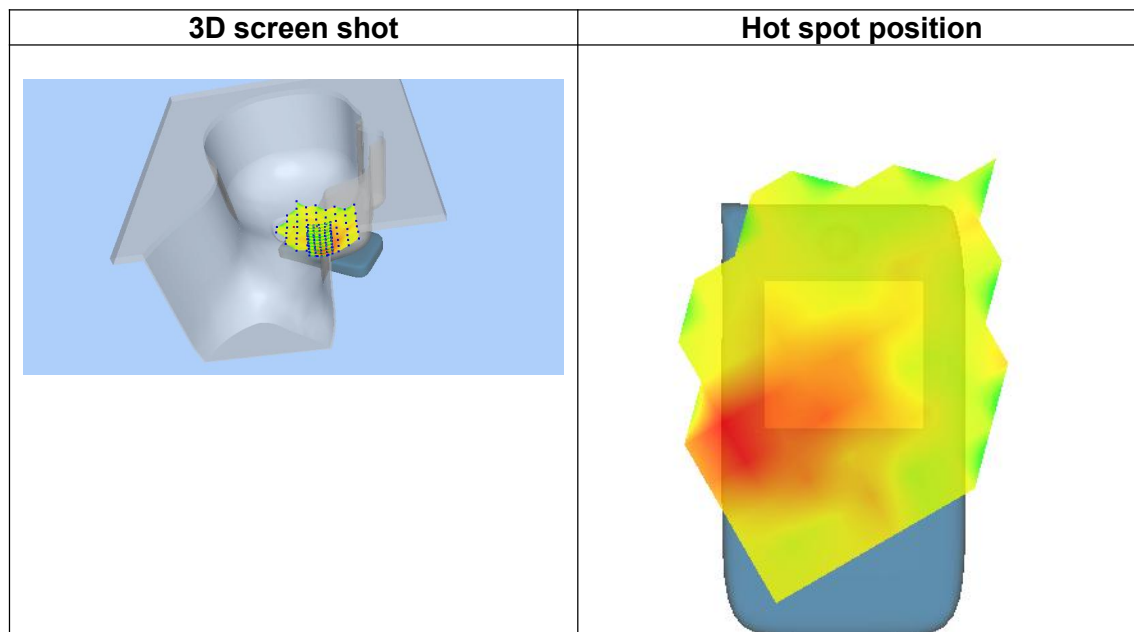
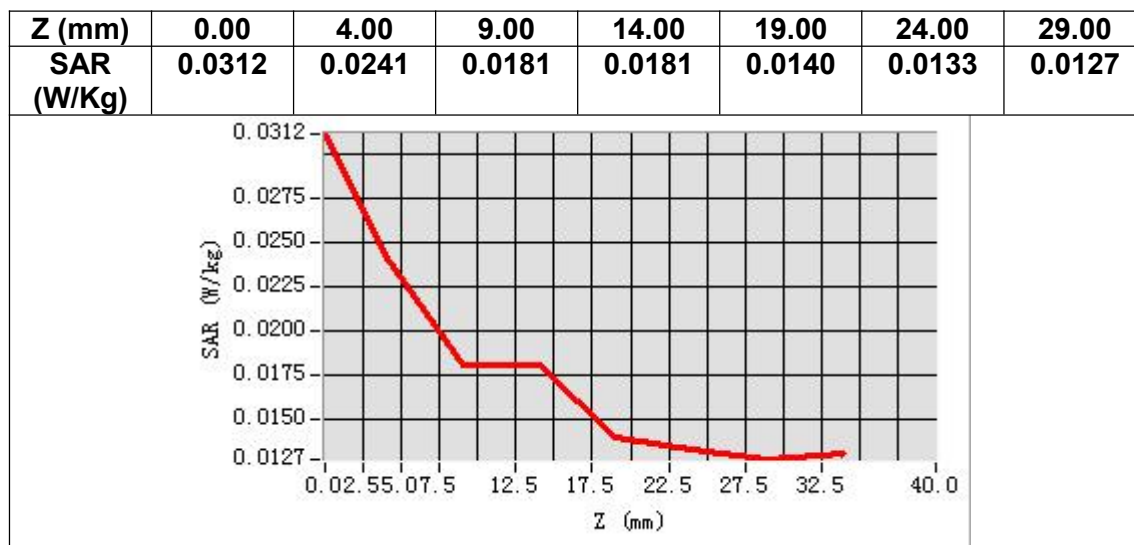
VOLUME SAR



Maximum location: X=-41.00, Y=-64.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.017622
SAR 1g (W/Kg)	0.025110



MEASUREMENT 6

Date of measurement: 26/12/2024

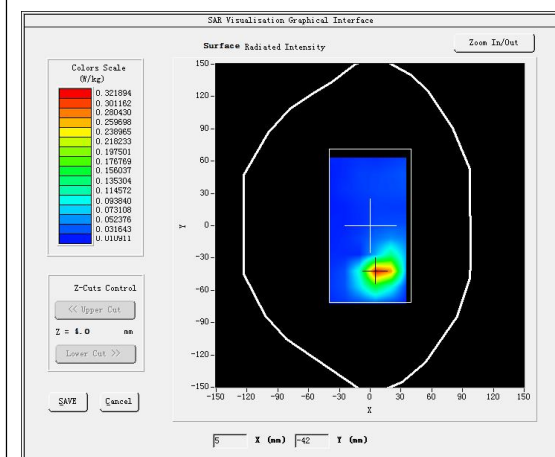
A. Experimental conditions.

<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>2.57</u>

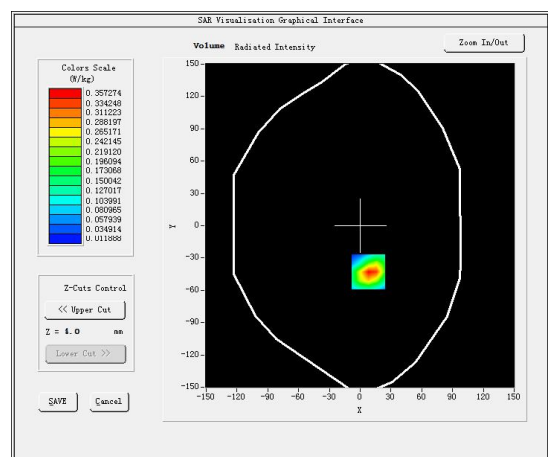
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.611801
Relative permittivity (imaginary part)	13.870998
Conductivity (S/m)	1.448749
Variation (%)	-3.700000

SURFACE SAR



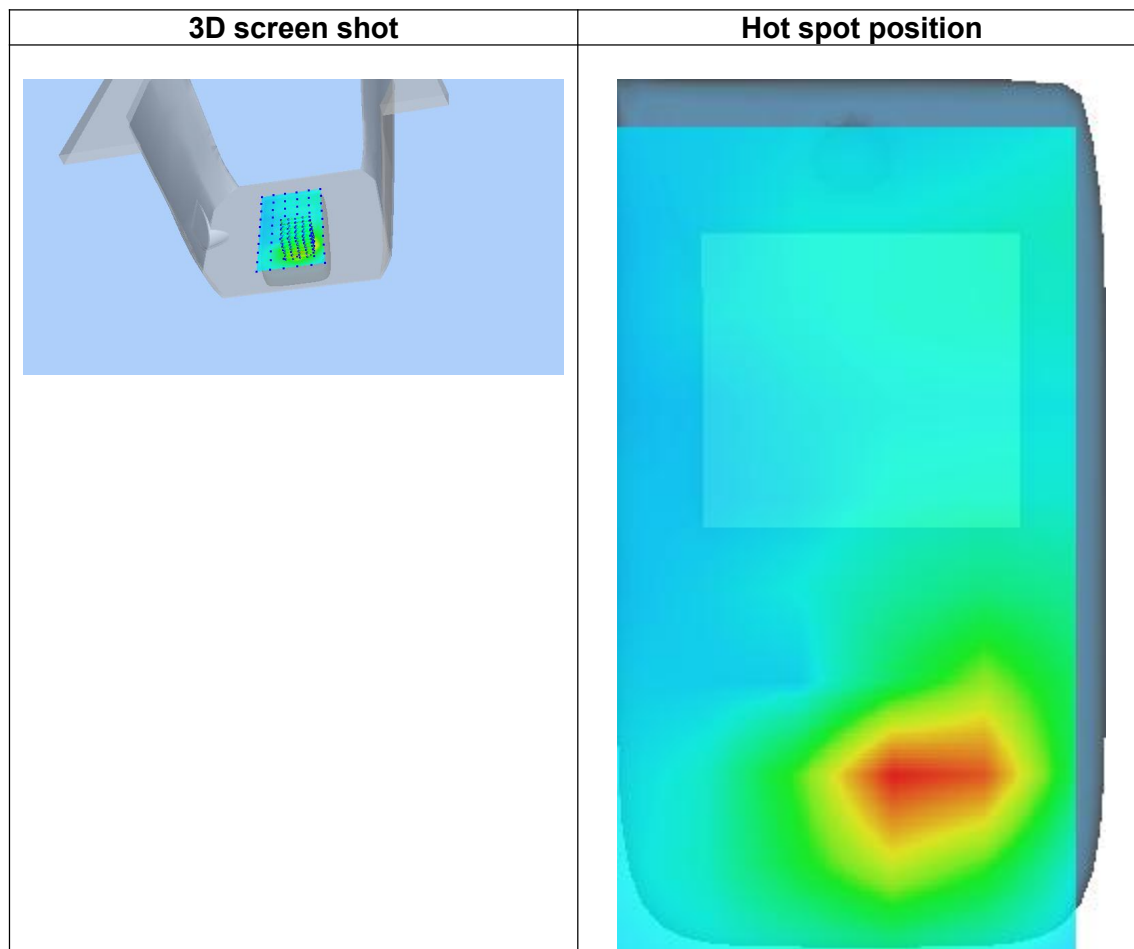
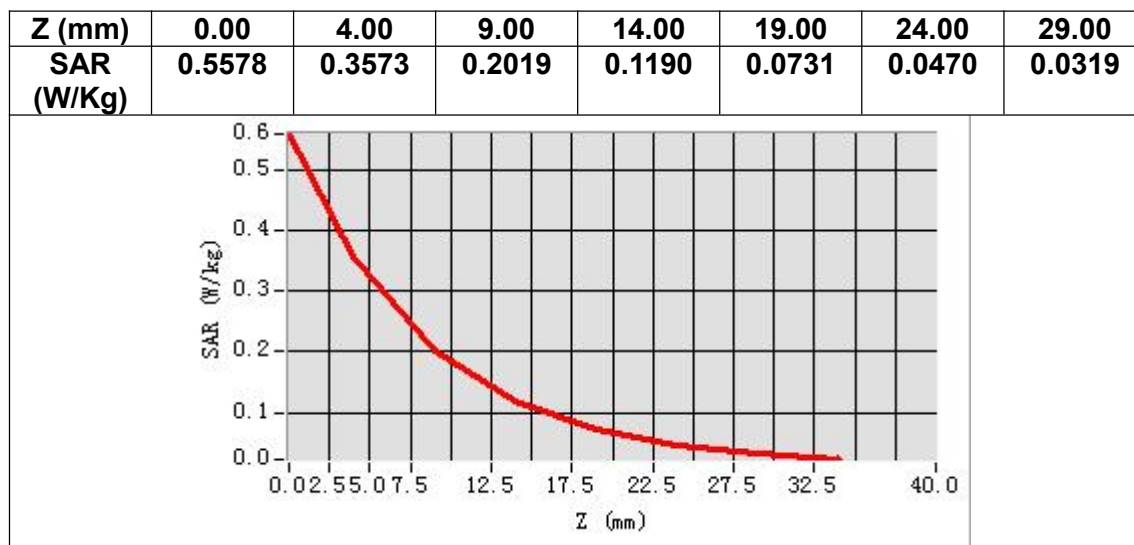
VOLUME SAR



Maximum location: X=8.00, Y=-43.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.170409
SAR 1g (W/Kg)	0.344466



MEASUREMENT 7

Date of measurement: 25/12/2024

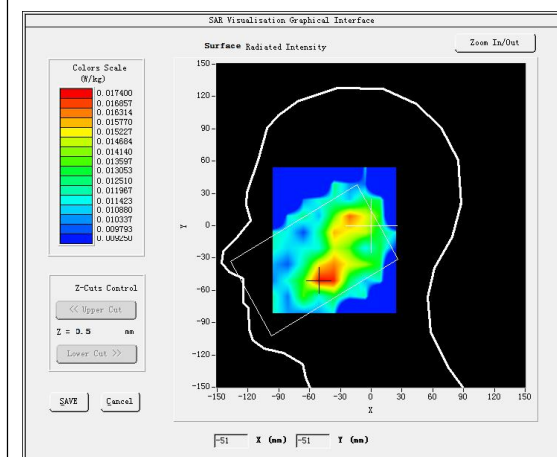
A. Experimental conditions.

<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>2.51</u>

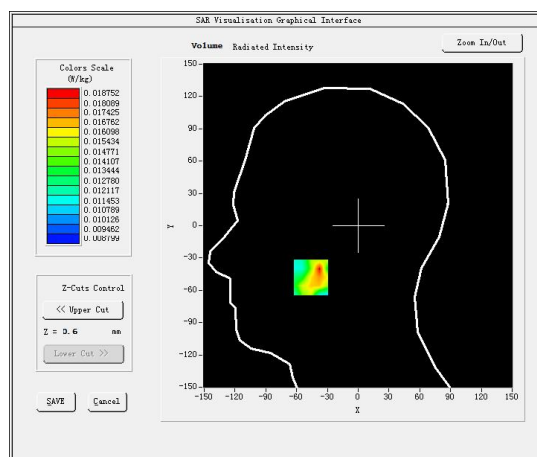
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.374687
Relative permittivity (imaginary part)	13.643482
Conductivity (S/m)	1.312806
Variation (%)	1.840000

SURFACE SAR



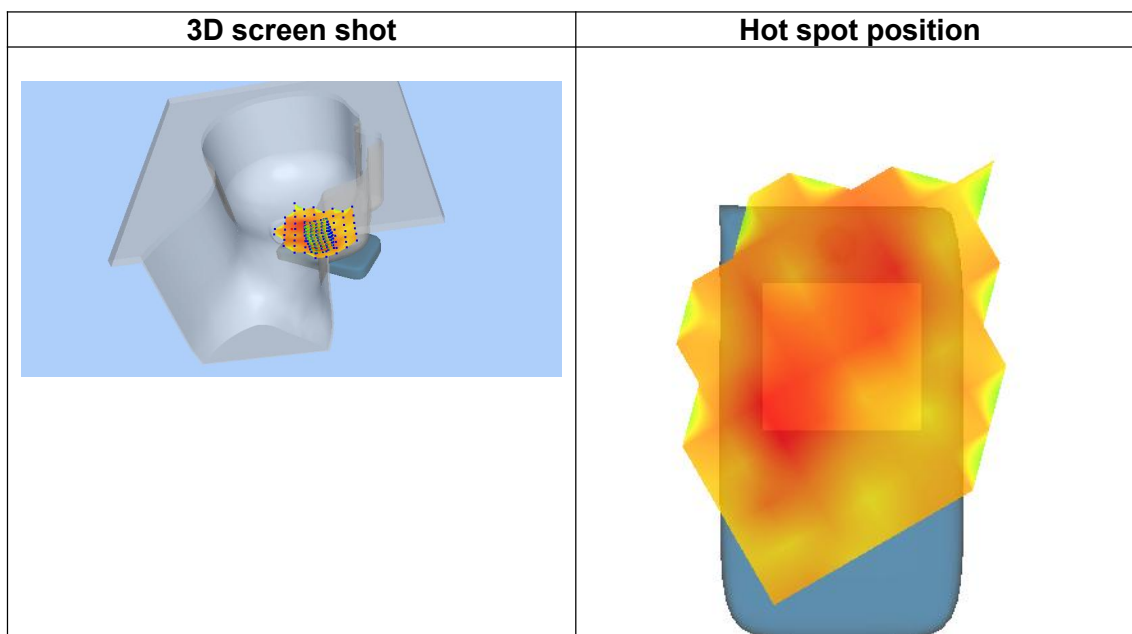
VOLUME SAR



Maximum location: X=-46.00, Y=-48.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.014410
SAR 1g (W/Kg)	0.018112



MEASUREMENT 8

Date of measurement: 25/12/2024

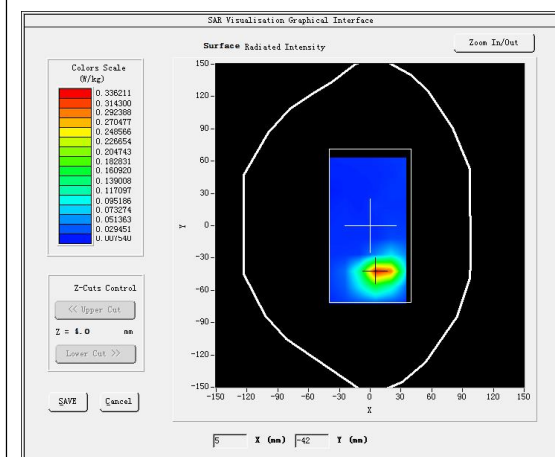
A. Experimental conditions.

<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>2.51</u>

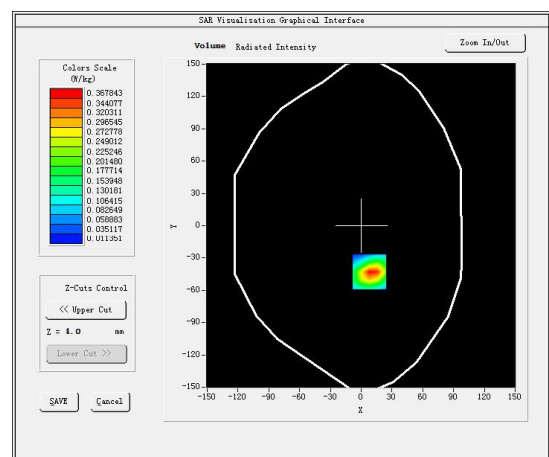
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.374687
Relative permittivity (imaginary part)	13.643482
Conductivity (S/m)	1.312806
Variation (%)	2.650000

SURFACE SAR



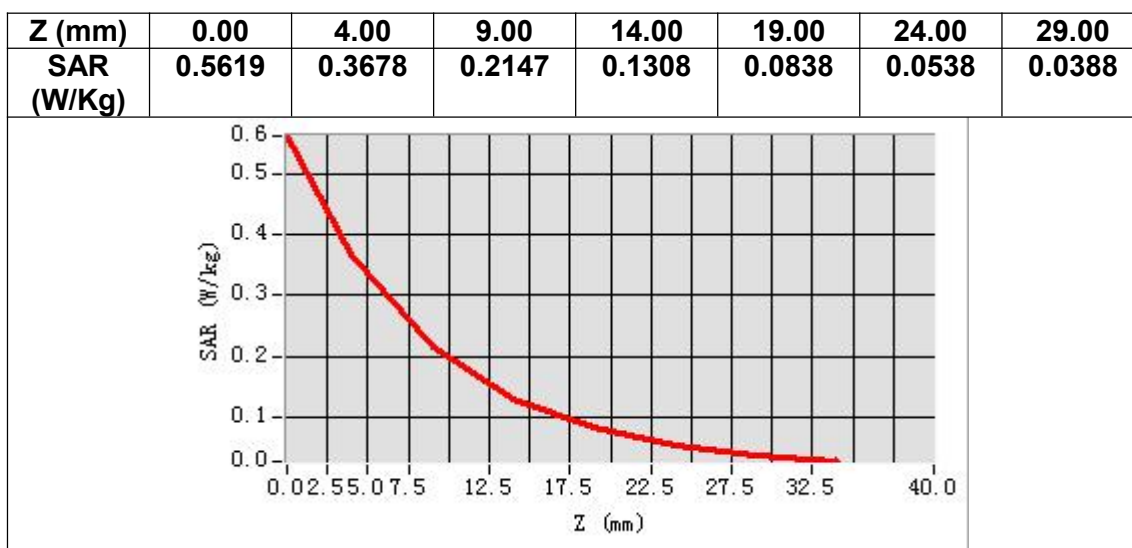
VOLUME SAR



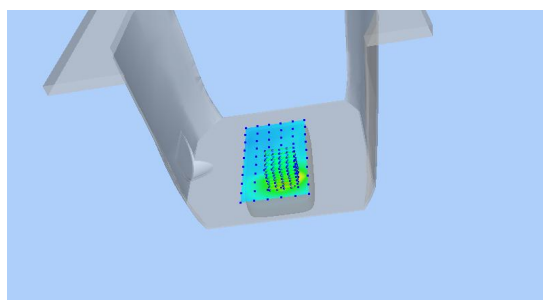
Maximum location: X=8.00, Y=-43.00

SAR Peak: 0.58 W/kg

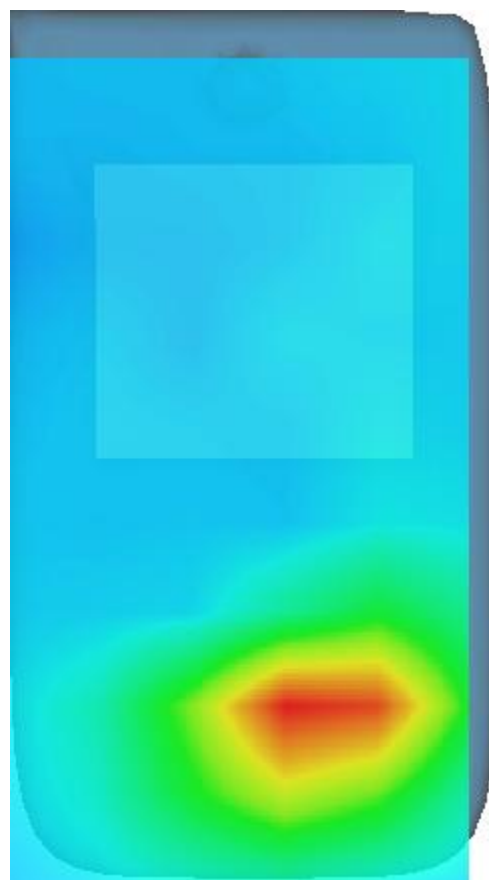
SAR 10g (W/Kg)	0.176566
SAR 1g (W/Kg)	0.344908



3D screen shot



Hot spot position



MEASUREMENT 9

Date of measurement: 11/12/2024

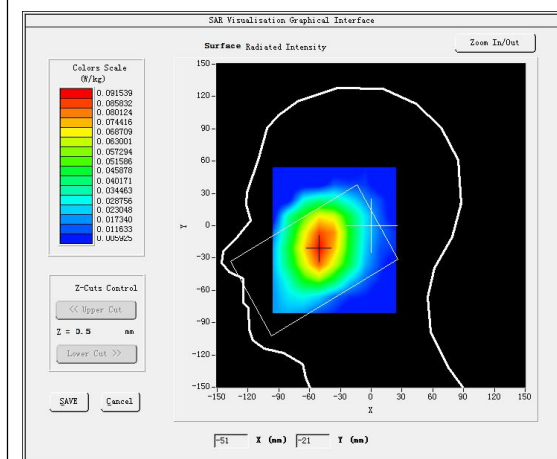
A. Experimental conditions.

<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>2.34</u>

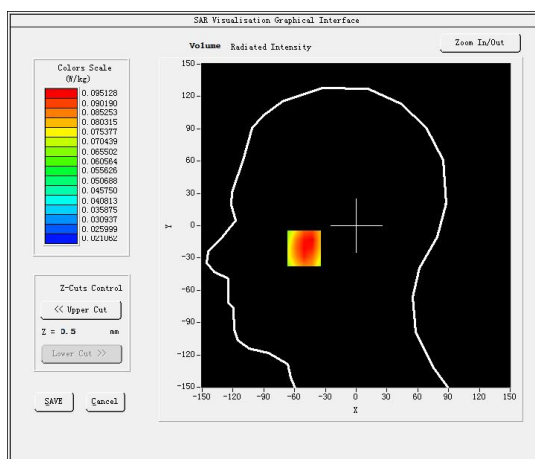
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.742706
Relative permittivity (imaginary part)	19.618612
Conductivity (S/m)	0.911612
Variation (%)	2.280000

SURFACE SAR



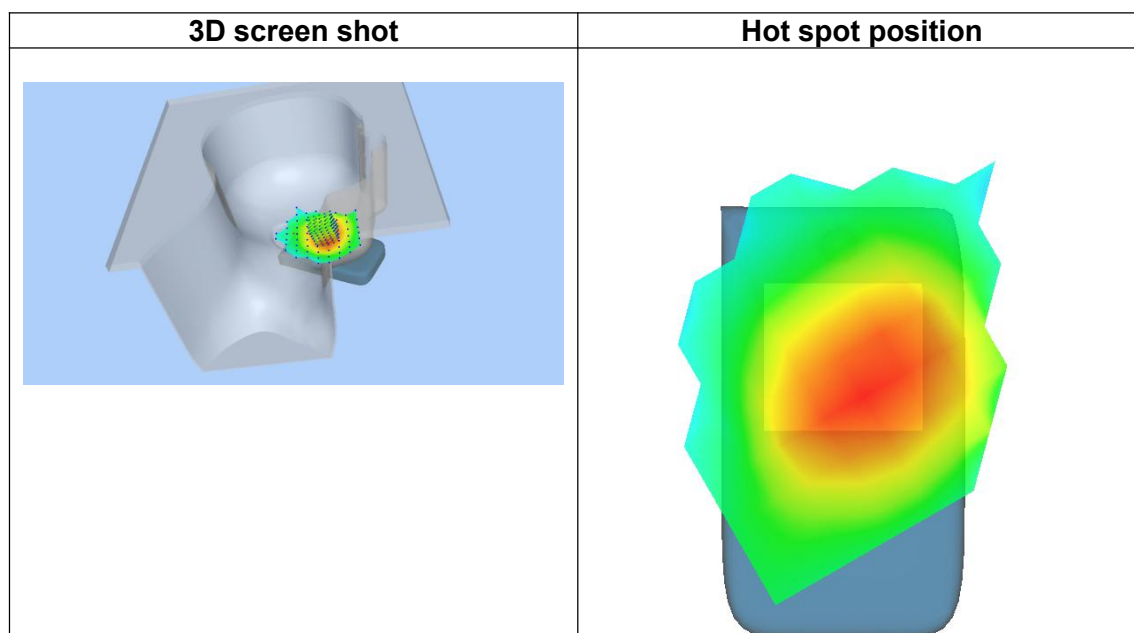
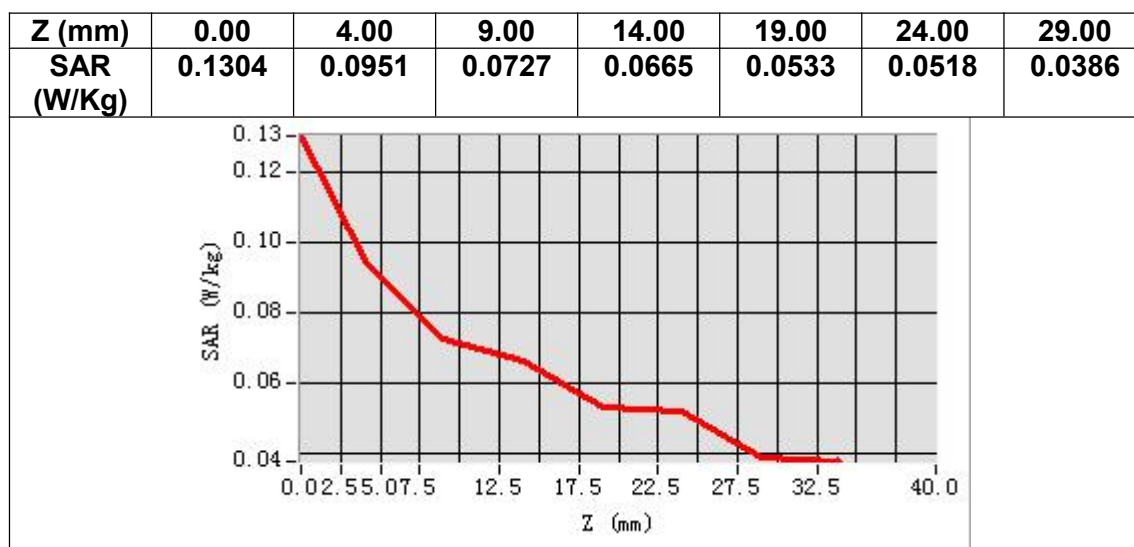
VOLUME SAR



Maximum location: X=-51.00, Y=-21.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.075065
SAR 1g (W/Kg)	0.094766



MEASUREMENT 10

Date of measurement: 11/12/2024

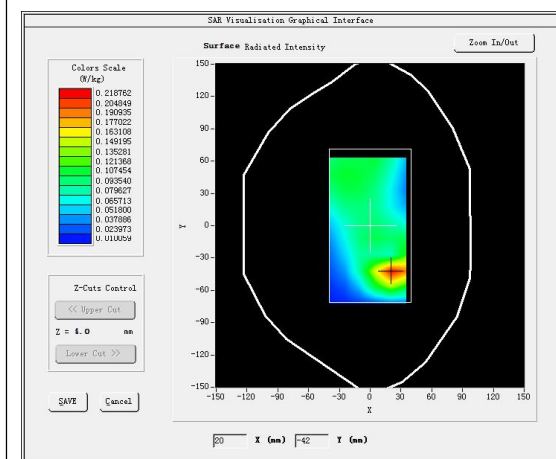
A. Experimental conditions.

<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>2.34</u>

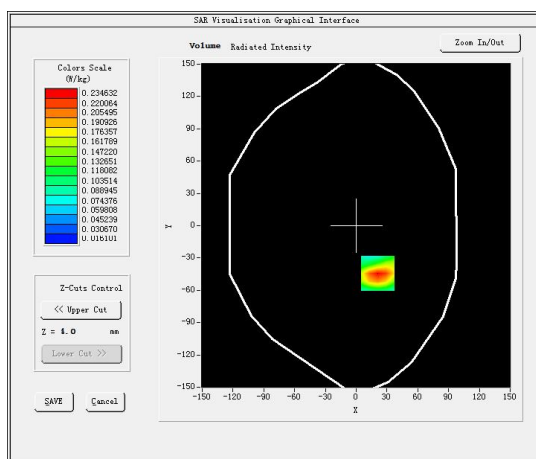
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.742706
Relative permittivity (imaginary part)	19.618612
Conductivity (S/m)	0.911612
Variation (%)	-0.780000

SURFACE SAR



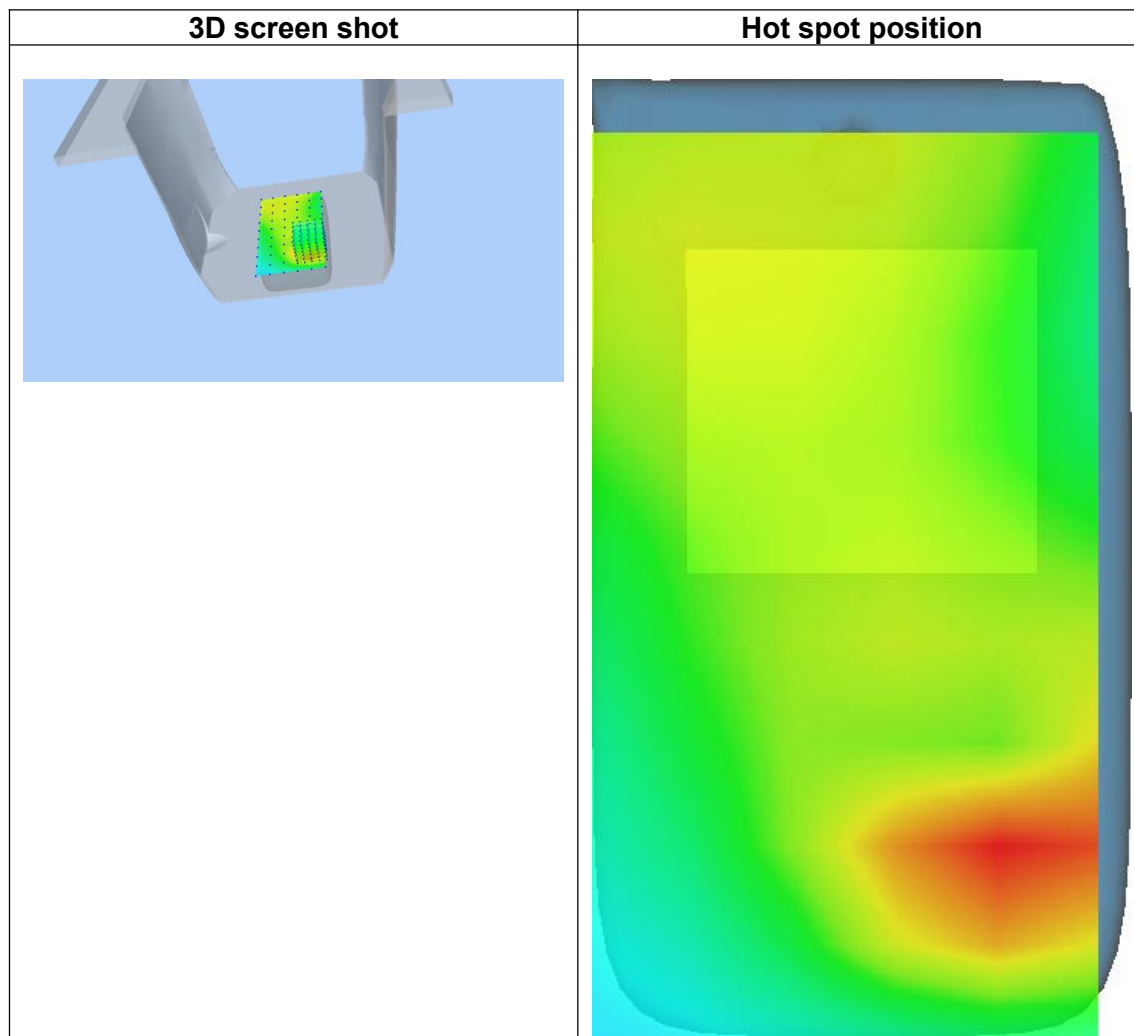
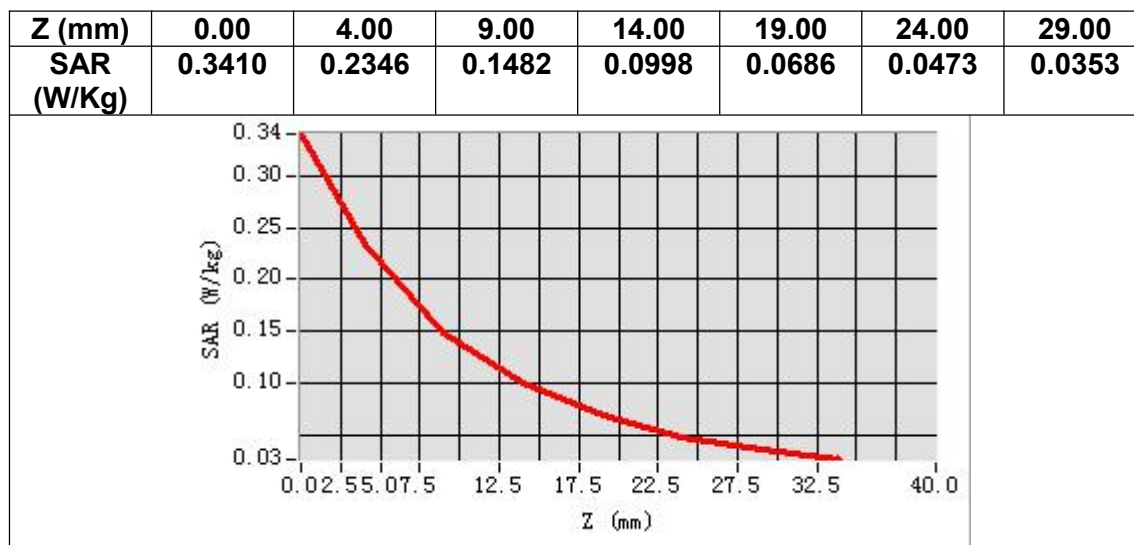
VOLUME SAR



Maximum location: X=21.00, Y=-44.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.131285
SAR 1g (W/Kg)	0.225308



MEASUREMENT 11

Date of measurement: 27/12/2024

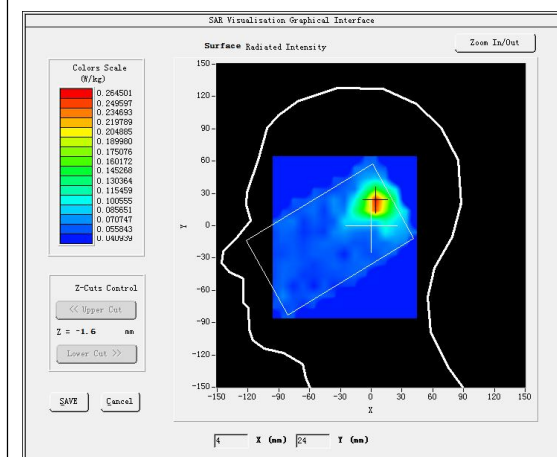
A. Experimental conditions.

<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>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.89</u>

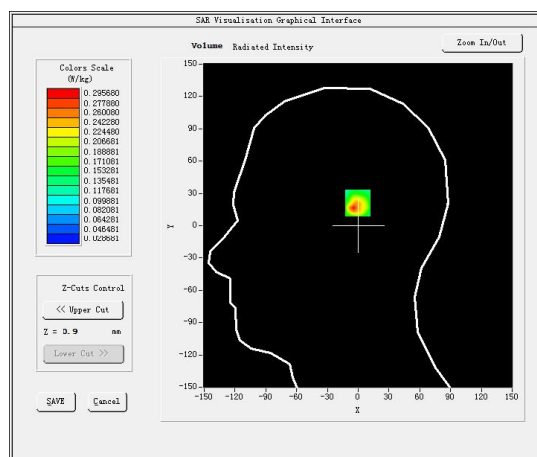
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.652485
Relative permittivity (imaginary part)	15.561054
Conductivity (S/m)	4.495416
Variation (%)	-0.130000

SURFACE SAR



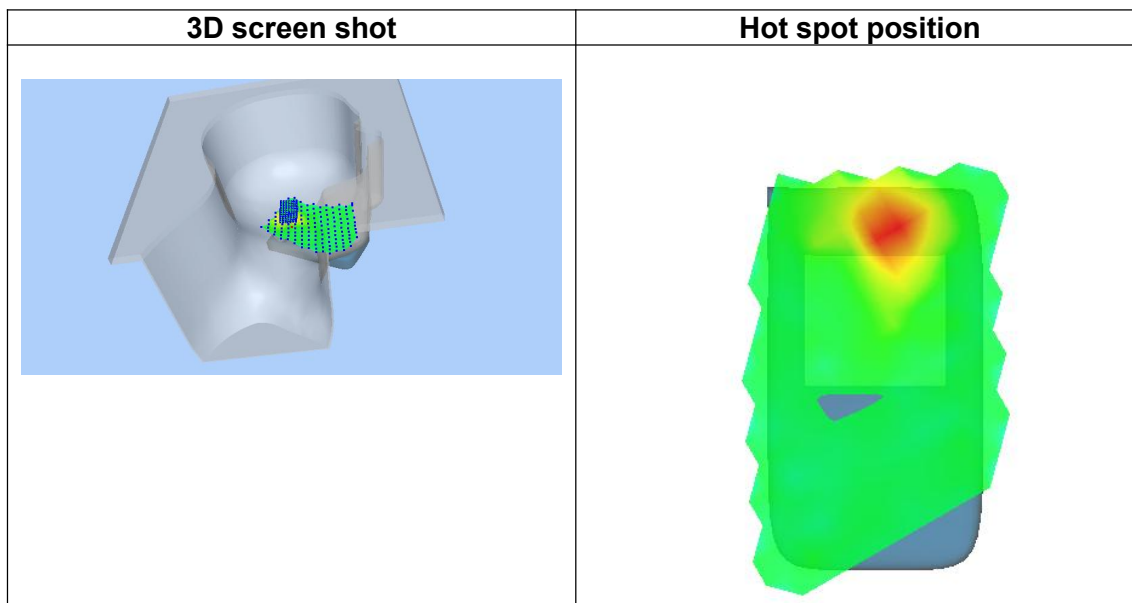
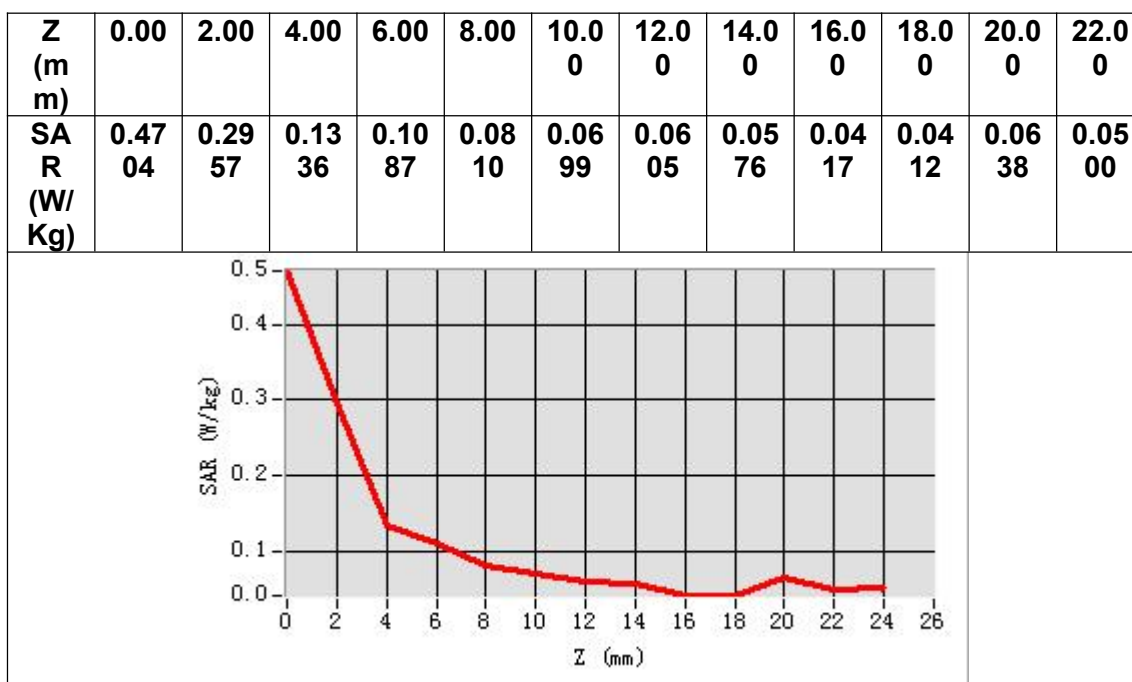
VOLUME SAR



Maximum location: X=5.00, Y=22.00

SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.129965
SAR 1g (W/Kg)	0.268874



MEASUREMENT 12

Date of measurement: 17/12/2024

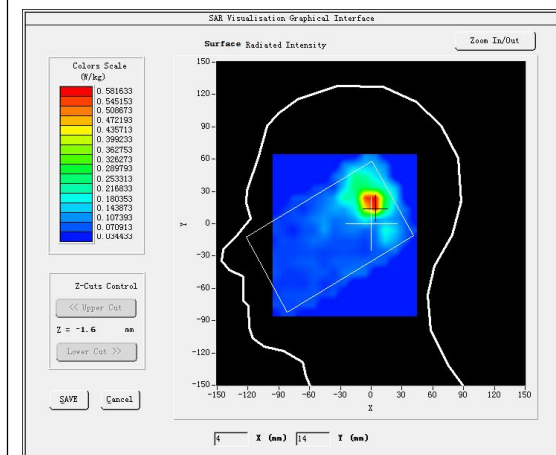
A. Experimental conditions.

<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 802.11ax U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11ax (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.90</u>

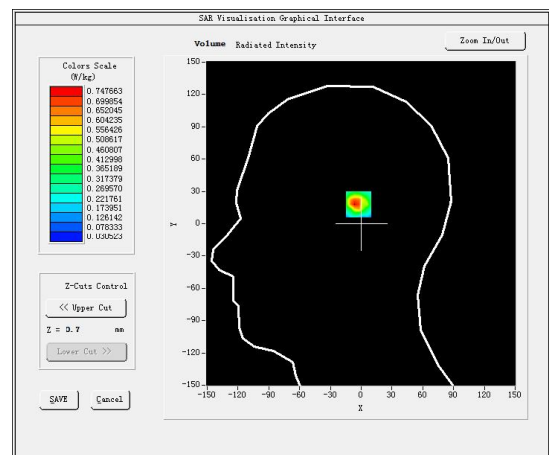
B. SAR Measurement Results

Frequency (MHz)	5745.000000
Relative permittivity (real part)	33.979572
Relative permittivity (imaginary part)	15.795672
Conductivity (S/m)	5.076553
Variation (%)	-0.330000

SURFACE SAR



VOLUME SAR

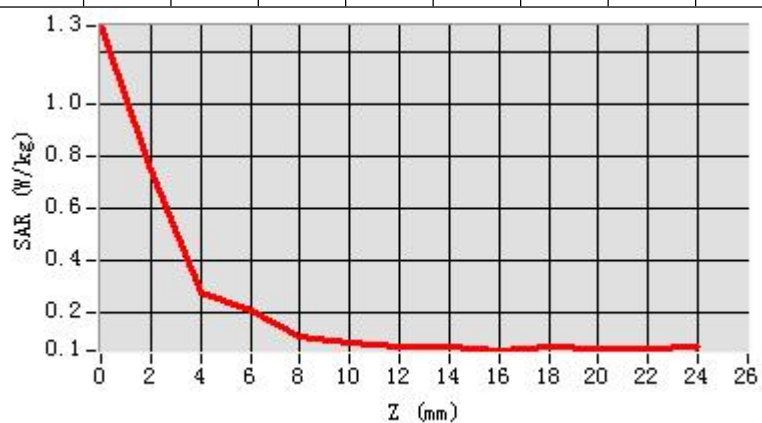


Maximum location: X=2.00, Y=18.00

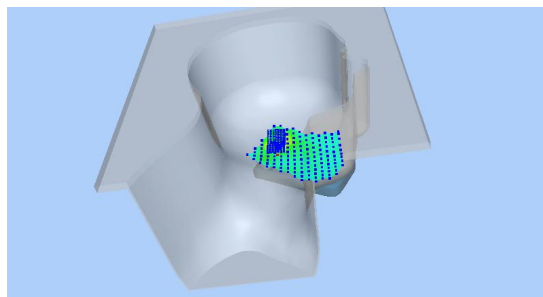
SAR Peak: 2.02 W/kg

SAR 10g (W/Kg)	0.264502
SAR 1g (W/Kg)	0.725939

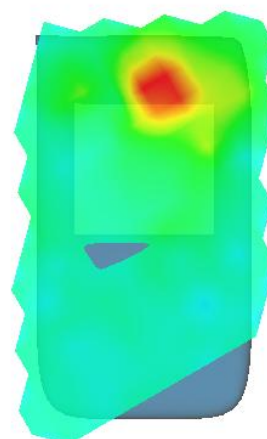
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	1.30 04	0.74 77	0.27 44	0.20 47	0.10 31	0.08 20	0.06 80	0.06 46	0.05 01	0.06 57	0.05 82	0.05 53



3D screen shot



Hot spot position



MEASUREMENT 13

Date of measurement: 27/12/2024

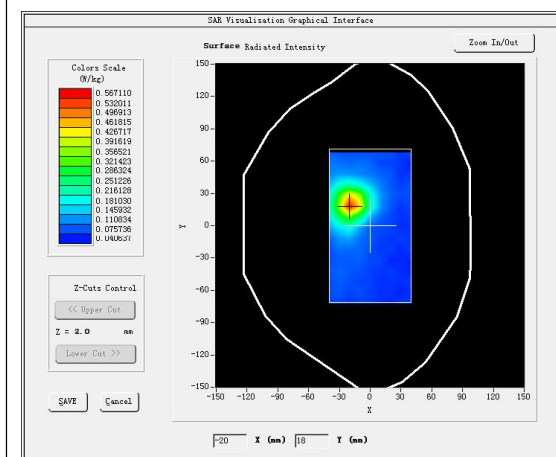
A. Experimental conditions.

<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>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.89</u>

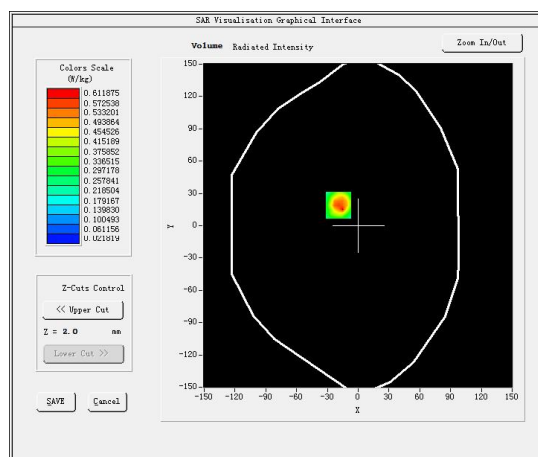
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.652485
Relative permittivity (imaginary part)	15.561054
Conductivity (S/m)	4.495416
Variation (%)	-3.110000

SURFACE SAR



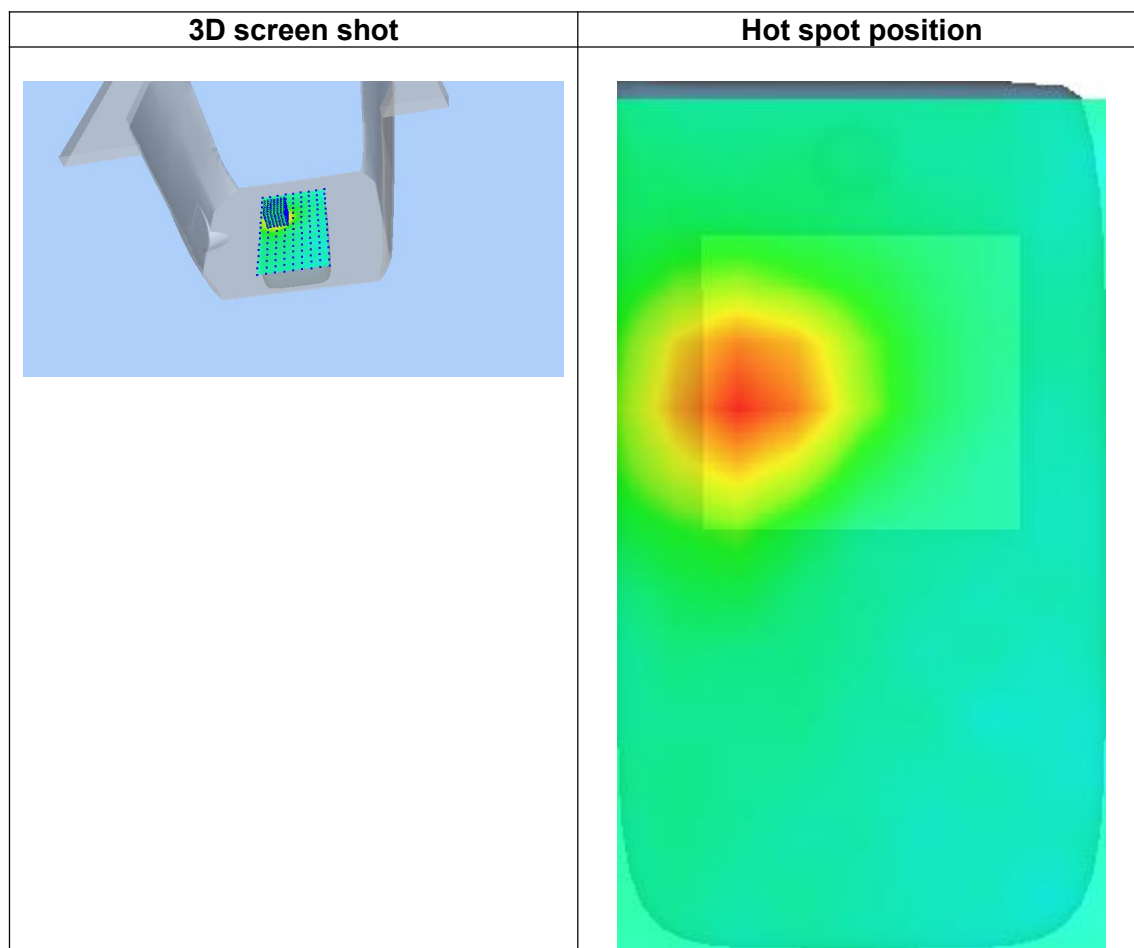
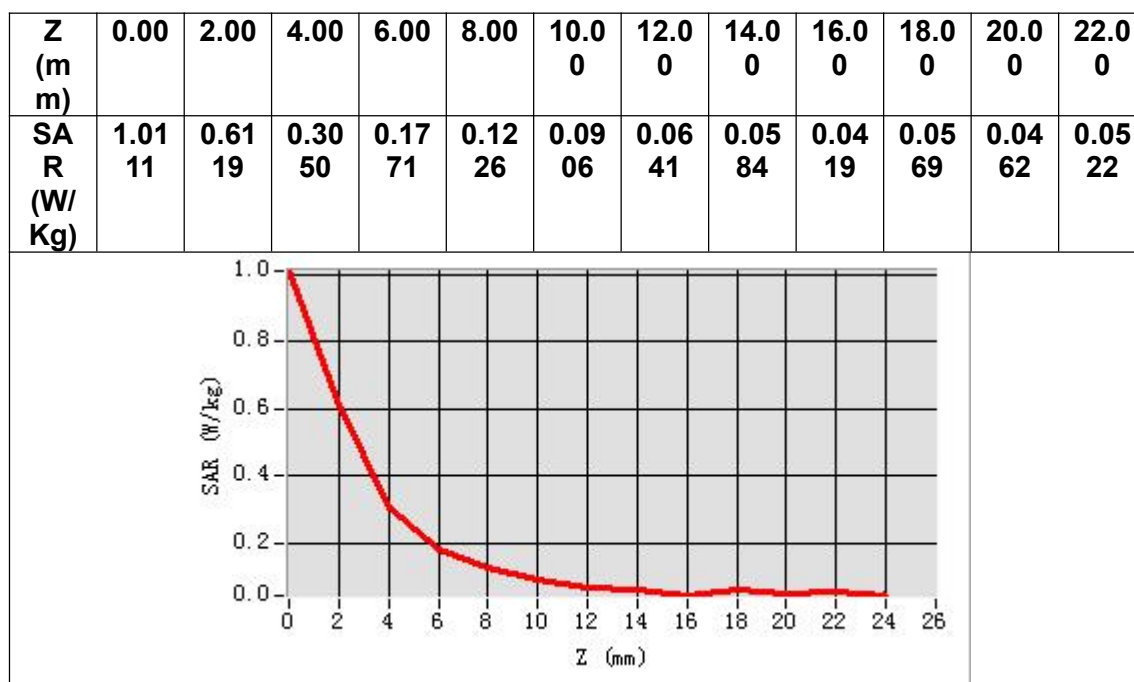
VOLUME SAR



Maximum location: X=-19.00, Y=19.00

SAR Peak: 1.07 W/kg

SAR 10g (W/Kg)	0.167789
SAR 1g (W/Kg)	0.347012



MEASUREMENT 14

Date of measurement: 17/12/2024

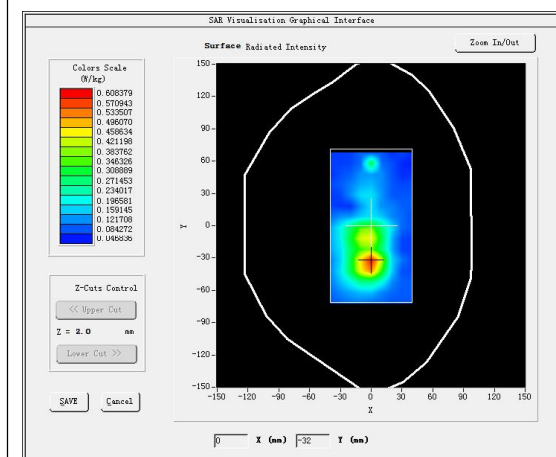
A. Experimental conditions.

<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 802.11ax U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11ax (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.90</u>

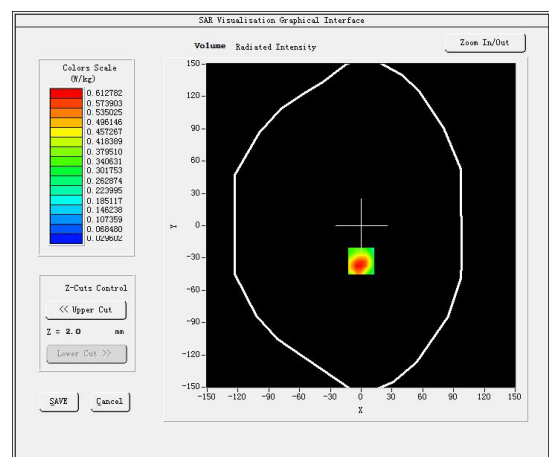
B. SAR Measurement Results

Frequency (MHz)	5745.000000
Relative permittivity (real part)	33.979572
Relative permittivity (imaginary part)	15.795672
Conductivity (S/m)	5.076553
Variation (%)	-2.650000

SURFACE SAR



VOLUME SAR

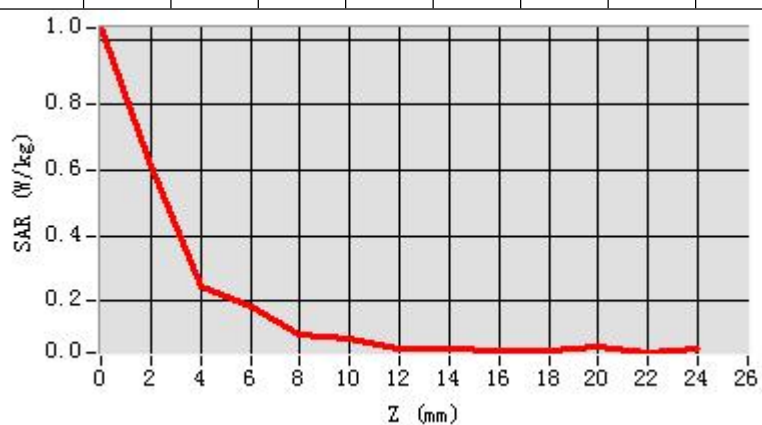


Maximum location: X=0.00, Y=-33.00

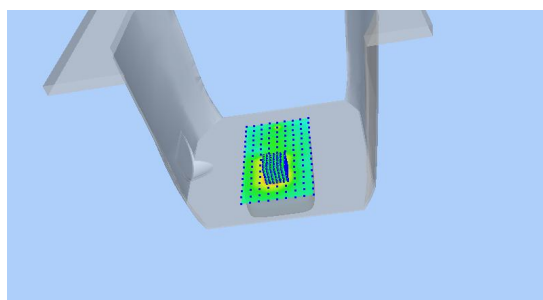
SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.177050
SAR 1g (W/Kg)	0.378858

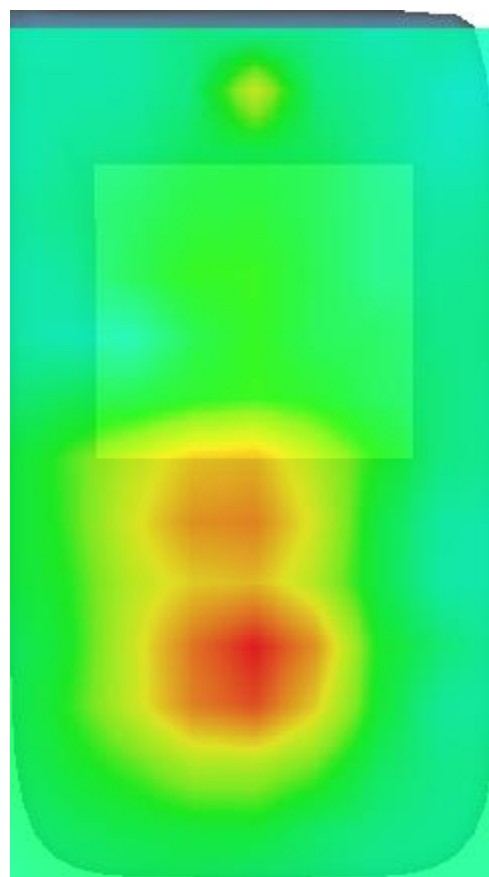
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	1.03 37	0.61 28	0.24 36	0.18 57	0.09 78	0.08 71	0.05 40	0.05 29	0.04 95	0.04 70	0.05 98	0.04 37



3D screen shot



Hot spot position



MEASUREMENT 15

Date of measurement: 12/12/2024

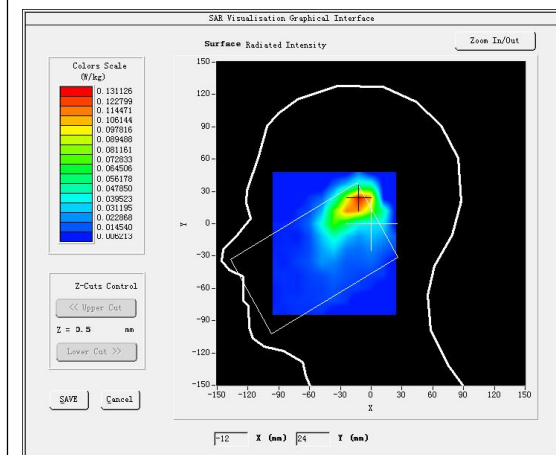
A. Experimental conditions.

<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>Middle</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.74</u>

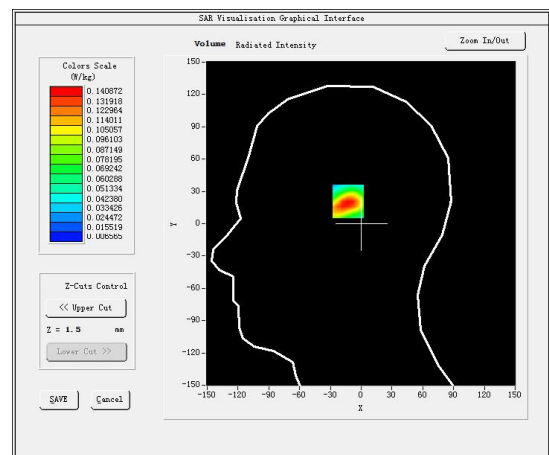
B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative permittivity (real part)	37.866589
Relative permittivity (imaginary part)	13.006529
Conductivity (S/m)	1.760940
Variation (%)	-0.420000

SURFACE SAR



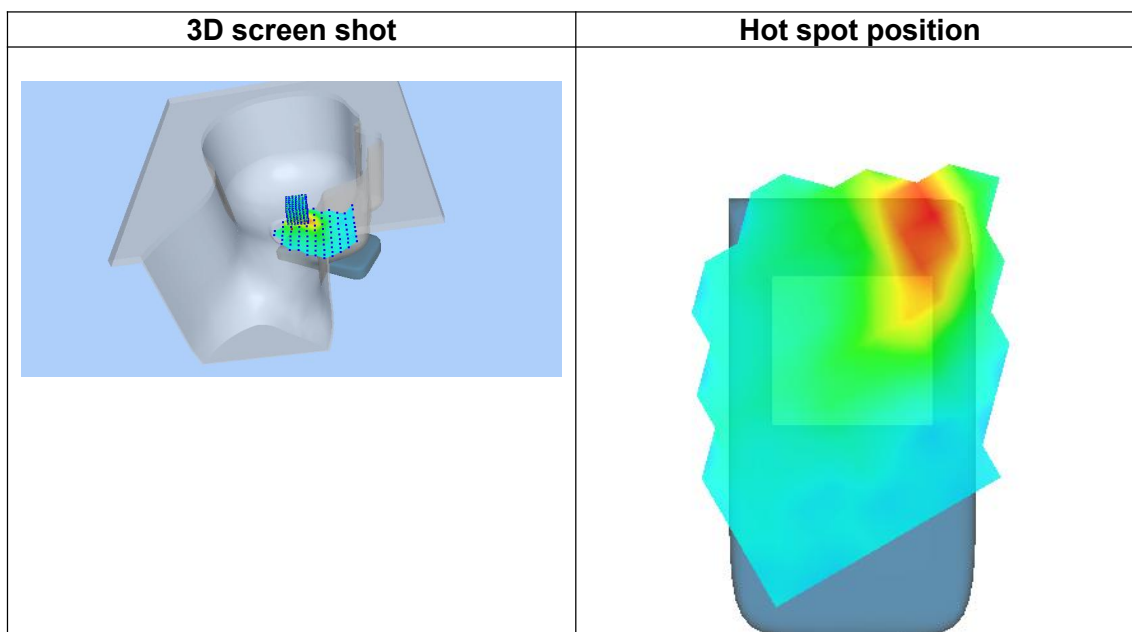
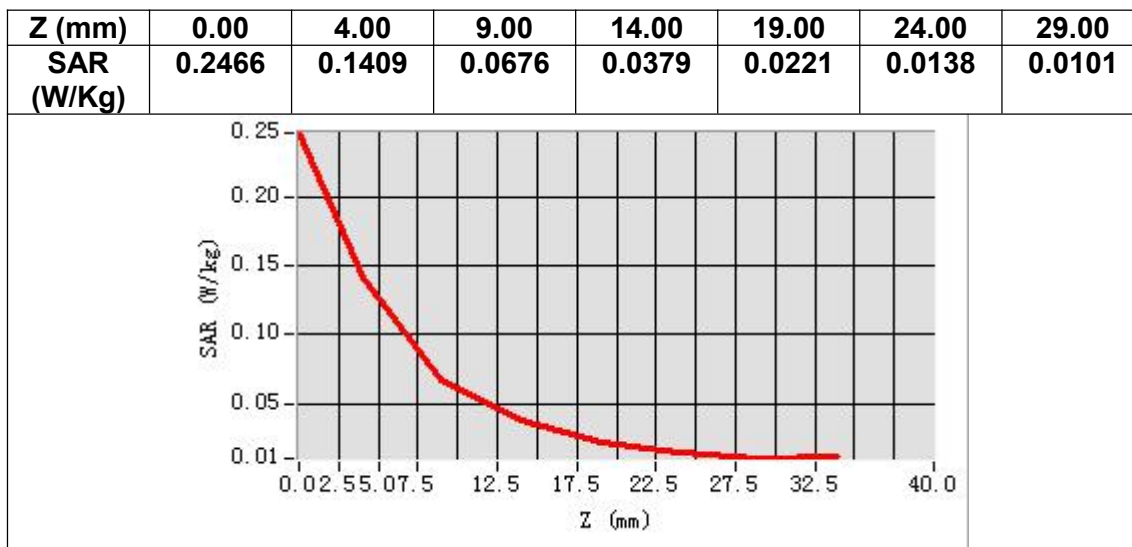
VOLUME SAR



Maximum location: X=-11.00, Y=22.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.067322
SAR 1g (W/Kg)	0.136245



MEASUREMENT 16

Date of measurement: 12/12/2024

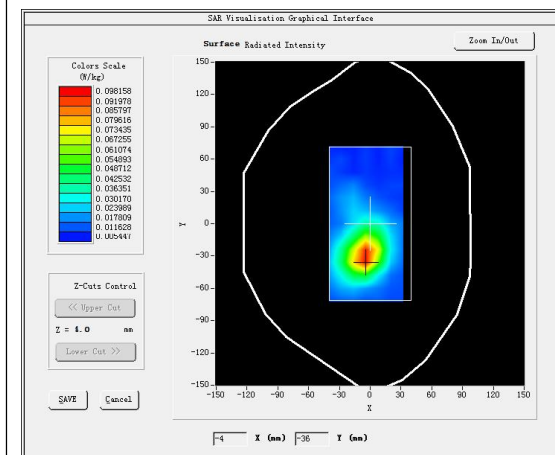
A. Experimental conditions.

<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>Middle</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.74</u>

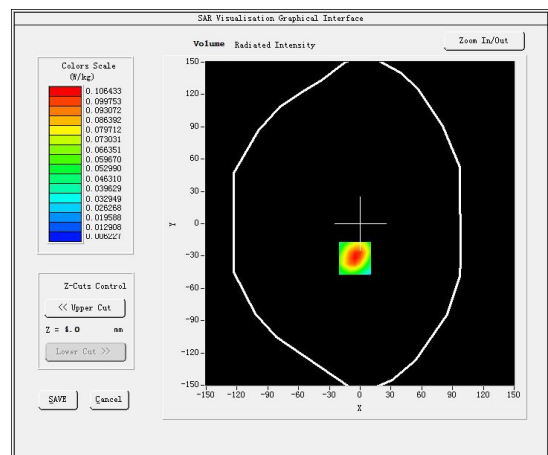
B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative permittivity (real part)	37.866589
Relative permittivity (imaginary part)	13.006529
Conductivity (S/m)	1.760940
Variation (%)	-0.500000

SURFACE SAR



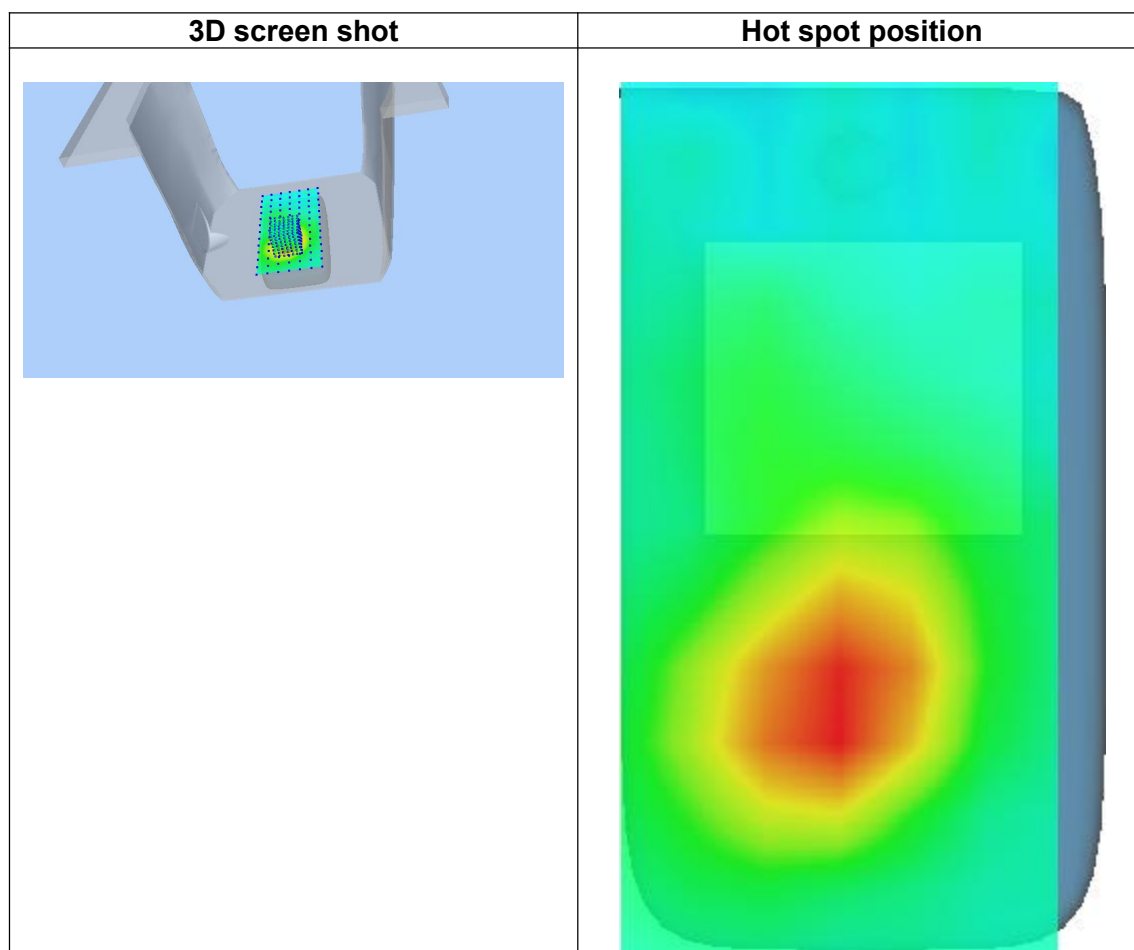
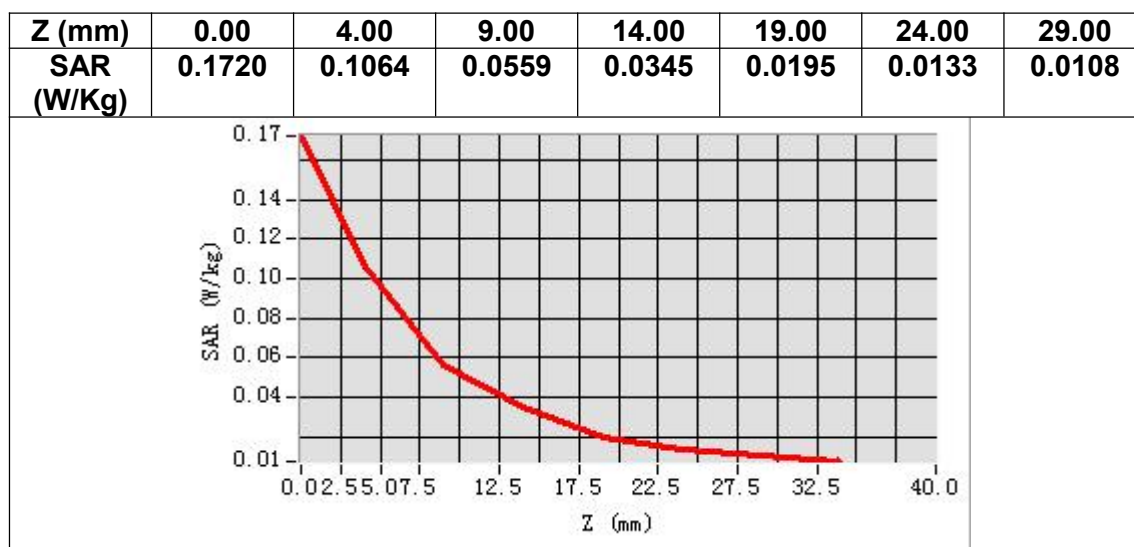
VOLUME SAR



Maximum location: X=-5.00, Y=-32.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.053059
SAR 1g (W/Kg)	0.099760



MEASUREMENT 17

Date of measurement: 27/12/2024

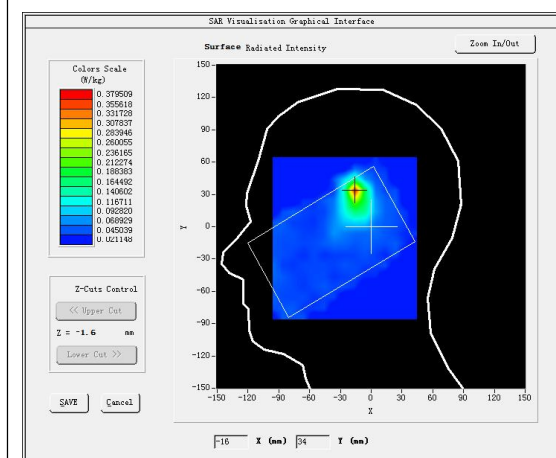
A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11n U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>
ConvF	<u>1.89</u>

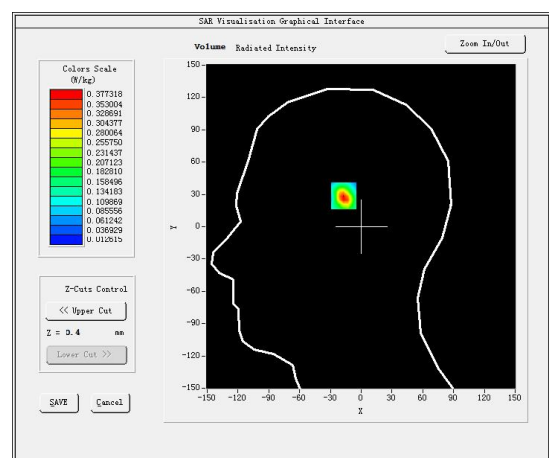
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.652485
Relative permittivity (imaginary part)	15.561054
Conductivity (S/m)	4.495415
Variation (%)	-2.690000

SURFACE SAR



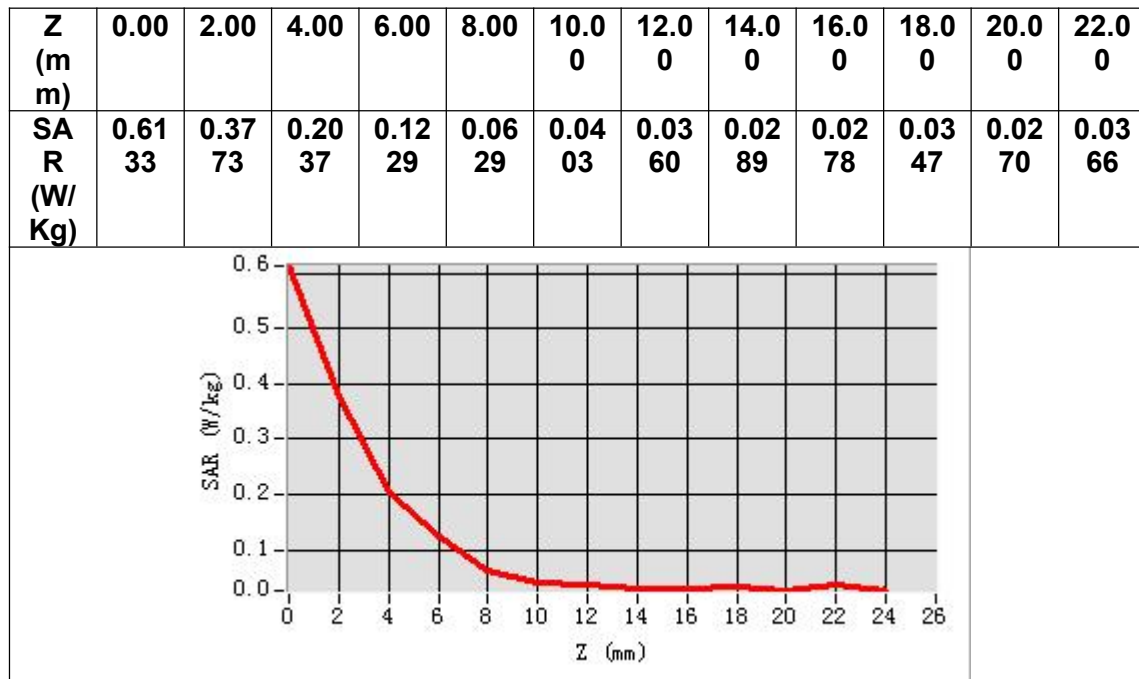
VOLUME SAR



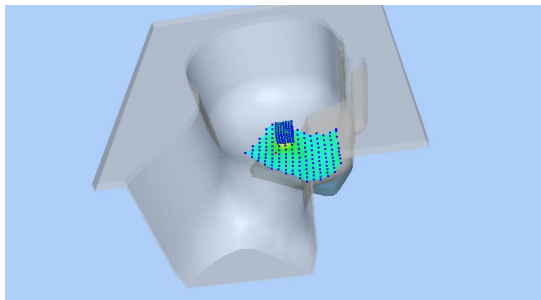
Maximum location: X=-16.00, Y=33.00

SAR Peak: 1.00 W/kg

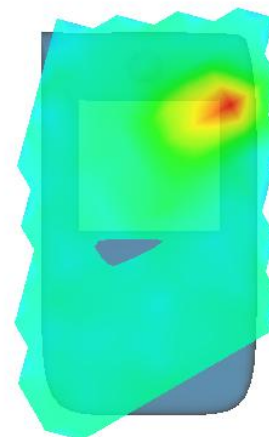
SAR 10g (W/Kg)	0.132011
SAR 1g (W/Kg)	0.361569



3D screen shot



Hot spot position



MEASUREMENT 18

Date of measurement: 17/12/2024

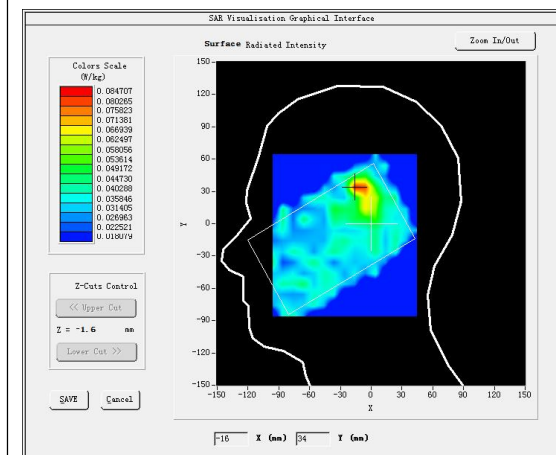
A. Experimental conditions.

<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 802.11n U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11n (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.90</u>

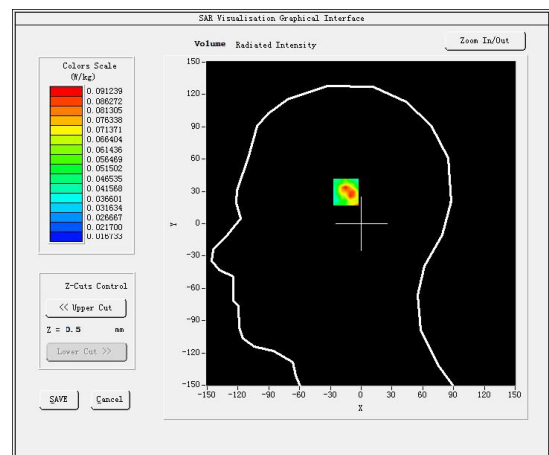
B. SAR Measurement Results

Frequency (MHz)	5825.000000
Relative permittivity (real part)	33.979572
Relative permittivity (imaginary part)	15.795672
Conductivity (S/m)	5.076553
Variation (%)	0.969999

SURFACE SAR



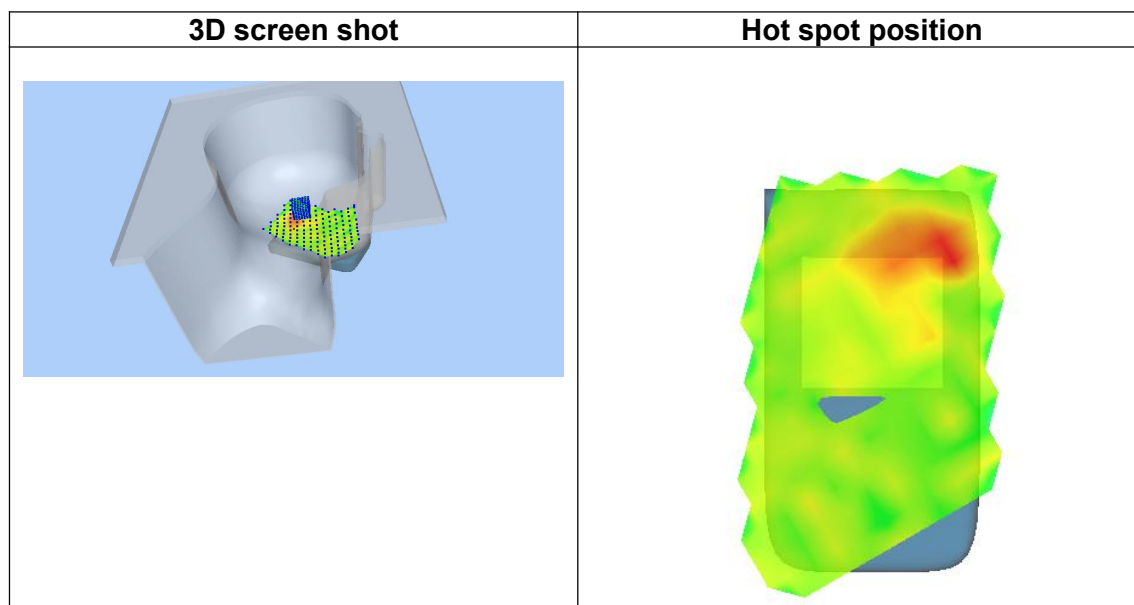
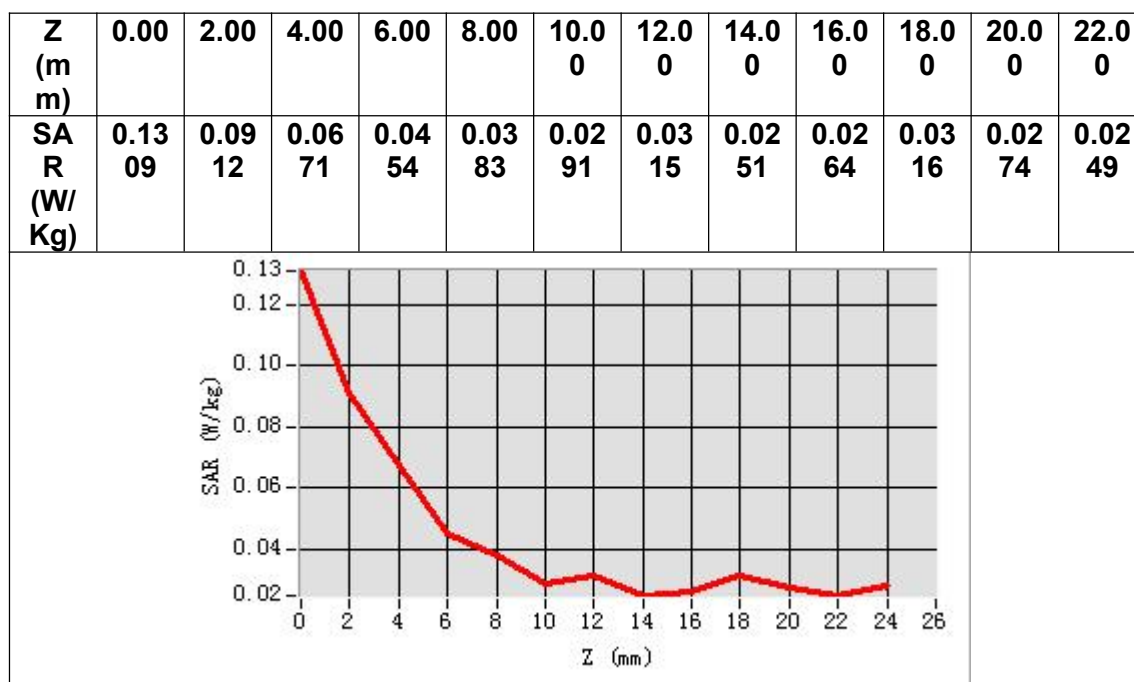
VOLUME SAR



Maximum location: X=-14.00, Y=34.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.048911
SAR 1g (W/Kg)	0.083425



MEASUREMENT 19

Date of measurement: 27/12/2024

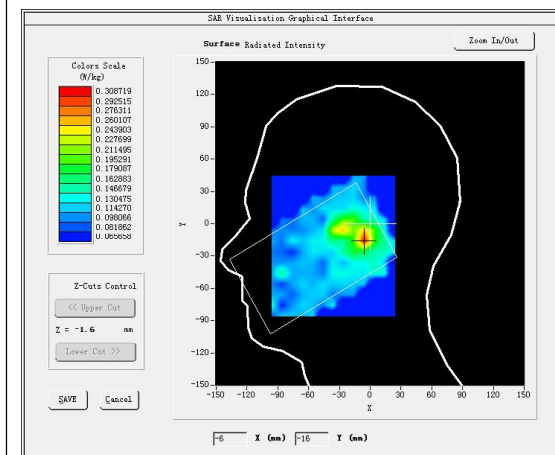
A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11ax U-NII</u>
Channels	<u>Low</u>
Signal	<u>IEEE802.11ax (Crest factor: 1.0)</u>
ConvF	<u>1.89</u>

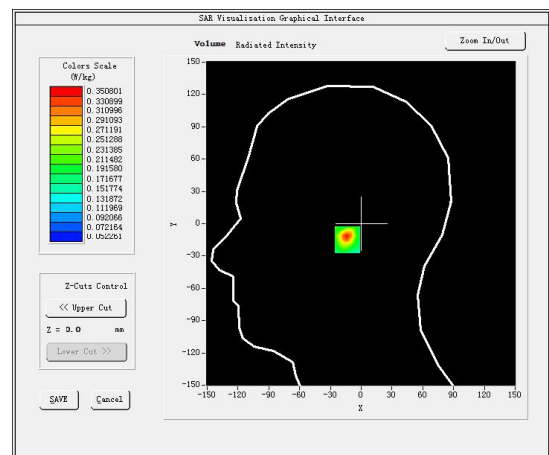
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.652485
Relative permittivity (imaginary part)	15.561054
Conductivity (S/m)	4.495415
Variation (%)	-1.879999

SURFACE SAR



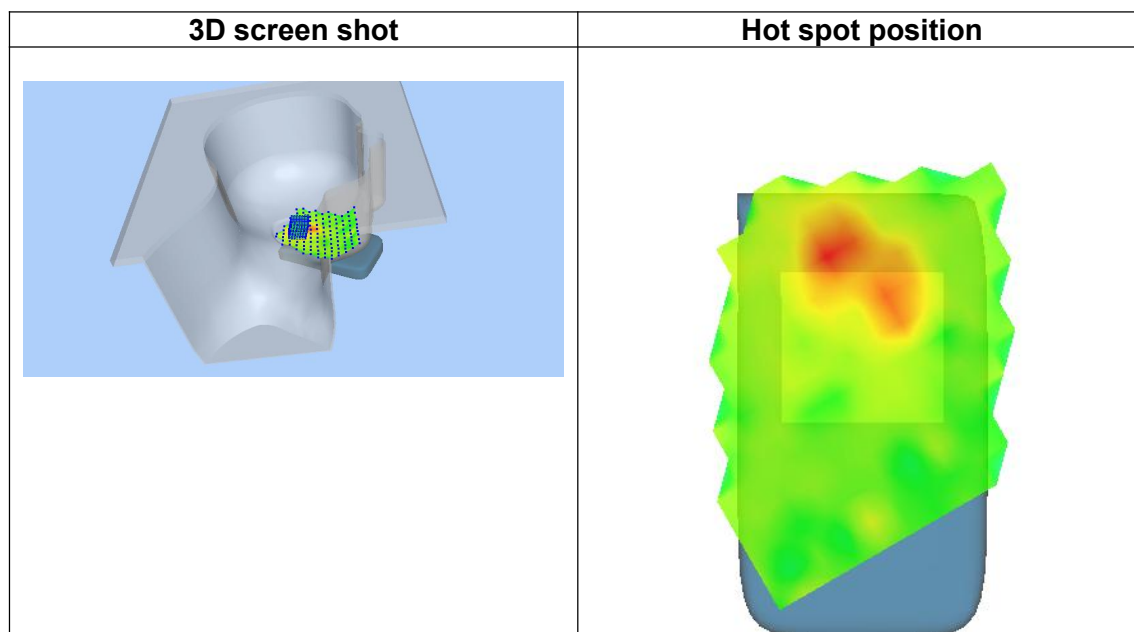
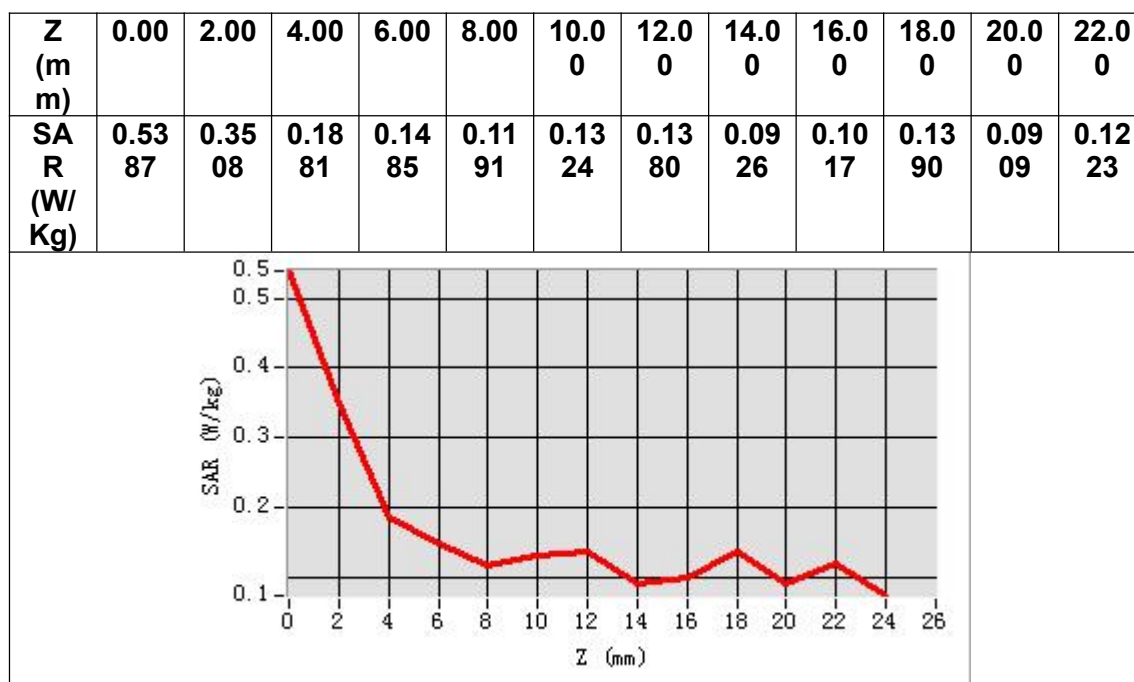
VOLUME SAR



Maximum location: X=-6.00, Y=-15.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.185513
SAR 1g (W/Kg)	0.327674



MEASUREMENT 20

Date of measurement: 17/12/2024

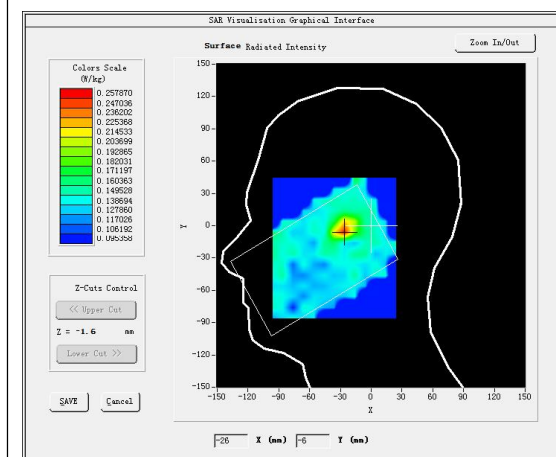
A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11n U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>
ConvF	<u>1.90</u>

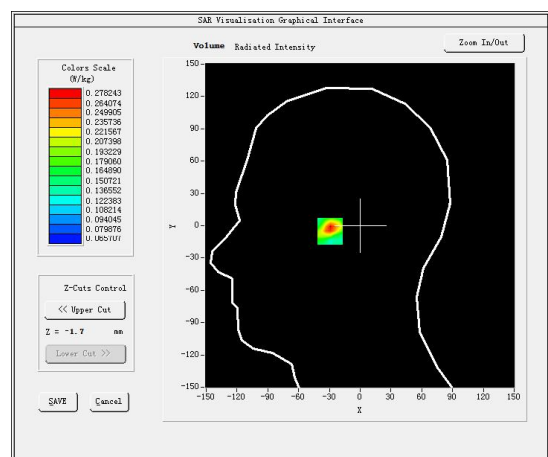
B. SAR Measurement Results

Frequency (MHz)	5795.000000
Relative permittivity (real part)	33.979572
Relative permittivity (imaginary part)	15.795672
Conductivity (S/m)	5.076553
Variation (%)	-2.850000

SURFACE SAR



VOLUME SAR

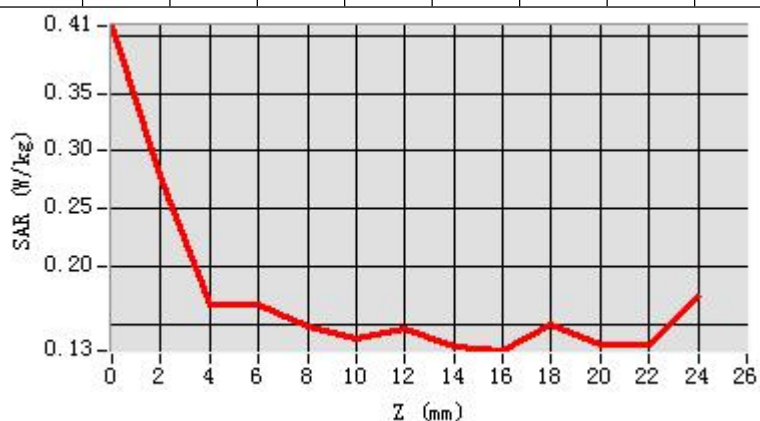


Maximum location: X=-26.00, Y=-5.00

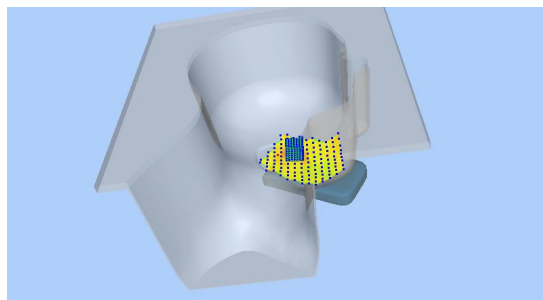
SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.168354
SAR 1g (W/Kg)	0.259905

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	0.40 89	0.27 82	0.16 69	0.16 58	0.14 66	0.13 68	0.14 51	0.13 00	0.12 66	0.14 95	0.13 20	0.13 10



3D screen shot



Hot spot position

