

FCC SAR EVALUATION REPORT

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

Product Name : Smartphone

Brand Name : 

Model Name : F112 Pro

Family Model : F112, F112 S, F112 P

Report No. : S24103102706001

FCC ID : 2BAK2-F112PRO

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name Smartphone

Brand Name 

Model and/or type
reference F112 Pro

Family Model F112, F112 S, F112 P

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 S241031027007

Date of Test

Date (s) of performance of tests... Nov.06, 2024~ Nov.29, 2024

Date of Issue Dec.15, 2024

Test Result **Pass**

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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Dec.15, 2024	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 F112 Pro 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		0.683	0.110	0.814	0.265	0.814
1-g Body-Worn (Separation distance of 10mm)		1.268	0.159	0.263	0.132	1.268
1-g Hotspot (Separation distance of 10mm)		1.268	0.159	0.401	0.132	
10-g Extremity (Separation distance of 0mm)		0.893	0.162	0.156	0.106	0.893
Max Simultaneous Tx	1-g Head	1.492	0.793	1.492	0.948	1.492
	1-g Body-Worn	1.427	1.427	1.393	1.400	1.427
	1-g Hotspot	1.427	1.427	1.393	1.400	
	10-g Extremity	1.055	1.055	1.049	0.999	1.055

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	Smartphone
Brand Name	
Model Name	F112 Pro
Family Model	F112, F112 S, F112 P
Model Difference	All models have the same circuit and RF module, except for model names and colors.
FCC ID	2BAK2-F112PRO
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery	DC 3.87V, 7150mAh, 27.67Wh

Information			
HW Version	E393 _ MAIN _PCB_V1.1		
SW Version	FOSSiBOT_F112 Pro_F		
Device Operating Configurations			
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7/12/17/41/66/71, NR SA n78,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 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	704-716
	LTE Band 17	704-716	734-746
	LTE Band 19	830-845	875-890
	LTE Band 25	1850-1915	1930-1995
	LTE Band 38	2570-2620	
	LTE Band 41	2496-2690	
	NR n78	3450-3550	
	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 7)
	3, tested with power control all Max.(LTE Band 12)
	3, tested with power control all Max.(LTE Band 13)
	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(LTE Band 19)
	3, tested with power control all Max.(LTE Band 25)
	3, tested with power control all Max.(LTE Band 38)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(NR SA 78)

1.4. Test specification(s)

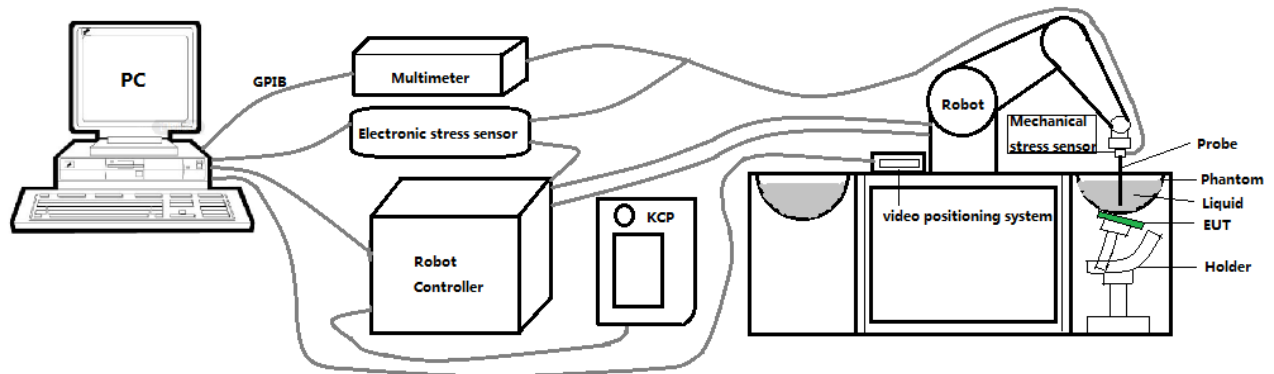
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR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

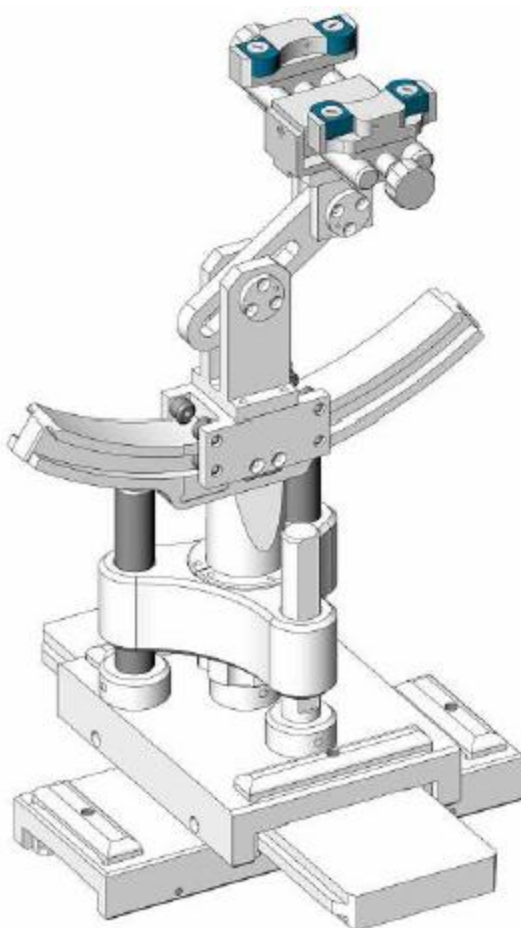


The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Mobile Phones.

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	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	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	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	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	NCR	NCR
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 26, 2024	Apr. 25, 2025
☒	R&S	Wideband	CMW500	103917	Apr. 26,	Apr. 25,

		radio communication tester			2024	2025
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
☒	R&S	Universal radio communication tester	CMU200	117858	Apr. 26, 2024	Apr. 25, 2025
☒	R&S	Wideband radio communication tester	CMW500	103917	Apr. 26, 2024	Apr. 25, 2025
☒	Anritsu	4G LTE comprehensiv e tester	MT8821C	6262192315	2024/7/17	2025/7/16
☒	Anritsu	5G NR comprehensiv e tester	MT8000A	6262186364	2024/7/17	2025/7/16
☒	HP	Network Analyzer	8753D	3410J01136	Apr. 26, 2024	Apr. 25, 2025
☒	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	MY41495644	Apr. 25, 2024	Apr. 24, 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.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

4.1.1. Tissue Dielectric Parameter Check Results

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

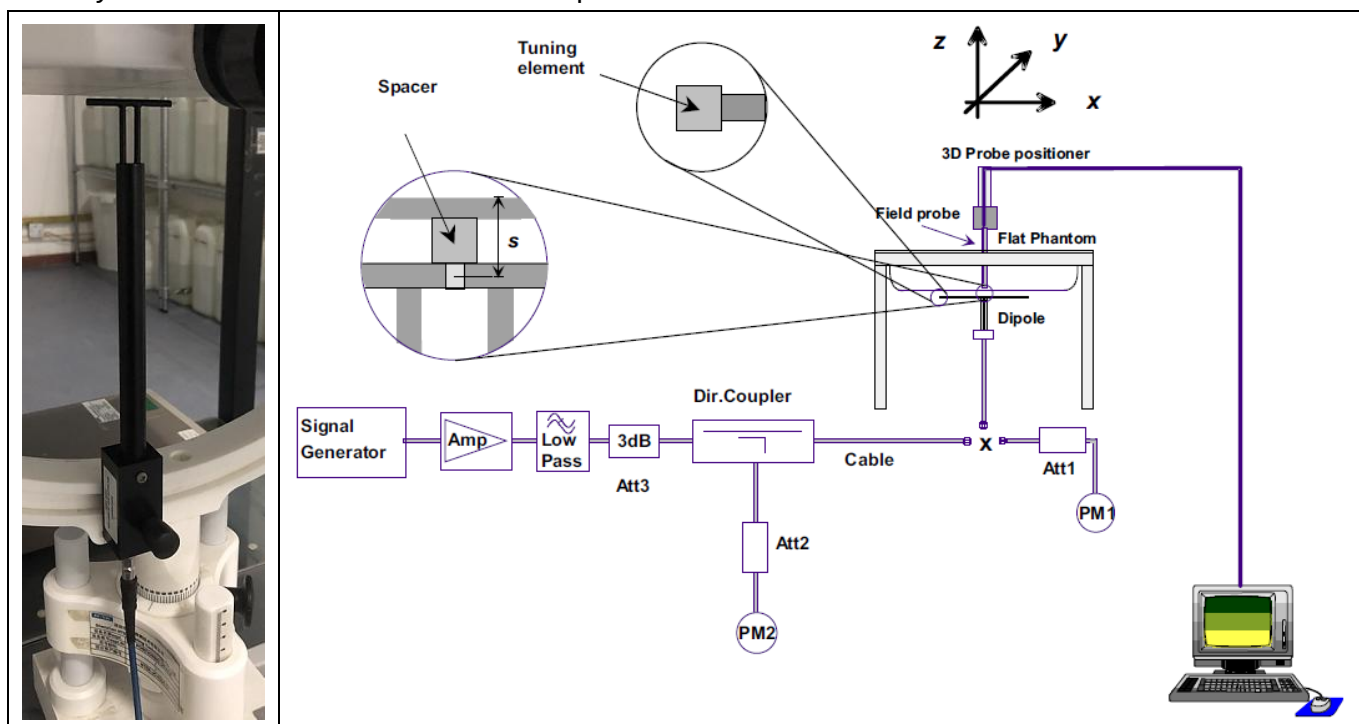
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.87	0.90	21.0 °C	Nov. 27, 2024
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.93	0.91	21.5 °C	Nov. 26, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.08	1.39	21.4 °C	Nov. 21, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.33	1.44	21.7 °C	Nov. 24, 2024
Head 2300	2300	39.47 (37.50~41.44)	1.66 (1.58~1.74)	39.41	1.62	21.5 °C	Nov. 29, 2024
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.96	1.80	21.2 °C	Nov. 18, 2024
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.88	1.98	21.4 °C	Nov. 25, 2024
Head 3500	3500	37.93 (36.04~39.82)	2.91 (2.77~3.05)	37.57	2.82	21.6 °C	Nov. 28, 2024
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	34.61	4.53	21.9 °C	Nov. 19, 2024
Head 5400	5400	35.80 (34.01~37.59)	4.86 (4.62~5.10)	34.58	4.88	21.3 °C	Nov. 06, 2024
Head 5600	5600	35.50 (33.73~37.28)	5.07 (4.82~5.32)	34.53	4.98	21.6 °C	Nov. 20, 2024
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.16	5.21	21.1 °C	Nov. 07, 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)	18dBm	0.543	0.367	8.61	5.82	21.0 °C	Nov. 27, 2024
835MHz	9.40 (8.46~10.34)	6.28 (5.65~6.91)	18dBm	0.574	0.376	9.10	5.96	21.5 °C	Nov. 26, 2024
1800MHz	37.06 (33.35~40.77)	20.01 (18.01~22.01)	18dBm	2.380	1.232	37.72	19.53	21.4 °C	Nov. 21, 2024
1900MHz	39.69 (35.72~43.66)	20.92 (18.83~23.01)	18dBm	2.510	1.231	39.78	19.51	21.7 °C	Nov. 24, 2024
1900MHz	39.69 (35.72~43.66)	20.92 (18.83~23.01)	18dBm	3.001	1.418	47.56	22.47	21.5 °C	Nov. 29, 2024
2450MHz	50.05 (45.05~55.06)	23.80 (21.42~26.18)	18dBm	3.347	1.404	53.05	22.25	21.2 °C	Nov. 18, 2024
2600MHz	54.16 (48.74~59.58)	24.85 (22.37~27.34)	20dBm	5.709	2.368	57.09	23.68	21.4 °C	Nov. 25, 2024
3500MHz	67.18 (60.47~73.89)	24.50 (22.05~26.95)	20dBm	6.976	2.529	69.76	25.29	21.6 °C	Nov. 28, 2024
5200MHz	162.59 (146.33~178.85)	56.21 (50.59~61.83)	18dBm	9.747	3.356	154.48	53.19	21.9 °C	Nov. 19, 2024
5400MHz	159.81 (143.83~175.79)	55.00 (49.50~60.50)	20dBm	15.914	5.425	159.14	54.25	21.3 °C	Nov. 06, 2024
5600MHz	179.15 (161.24~197.07)	61.01 (54.91~67.11)	20dBm	17.240	5.509	172.40	55.09	21.6 °C	Nov. 20, 2024
5800MHz	182.20 (163.98~200.42)	61.32 (55.19~67.45)	20dBm	16.414	5.727	164.14	57.27	21.1 °C	Nov. 07, 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 (~ 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.

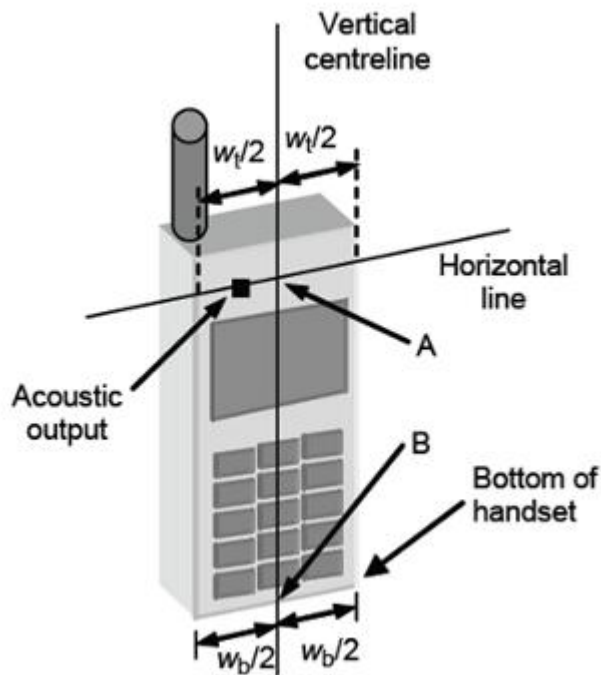


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

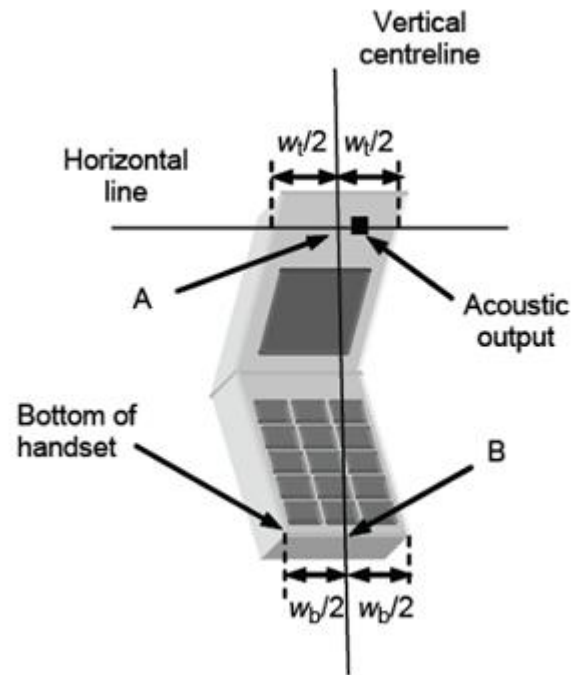


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

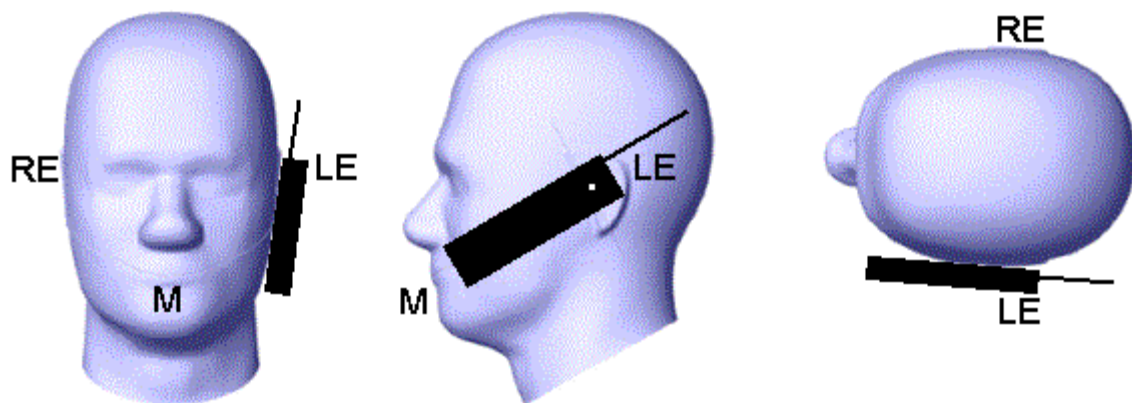


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

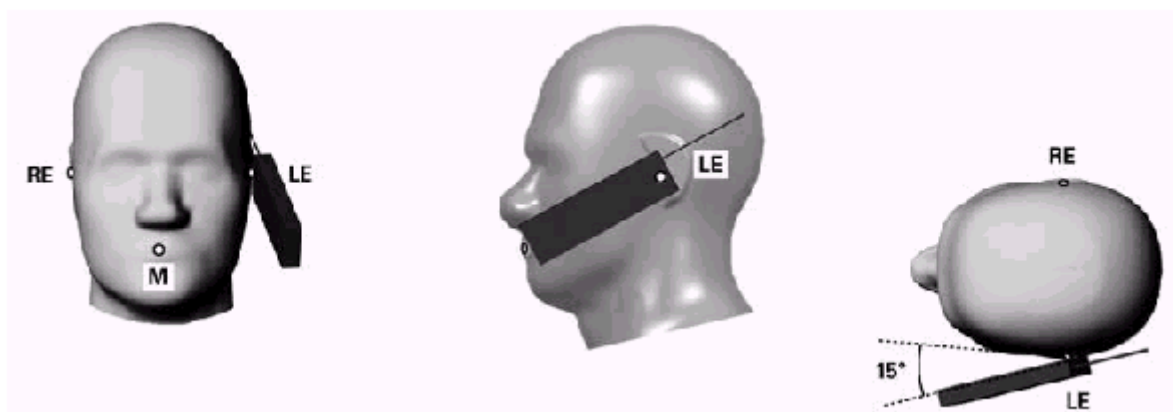


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

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

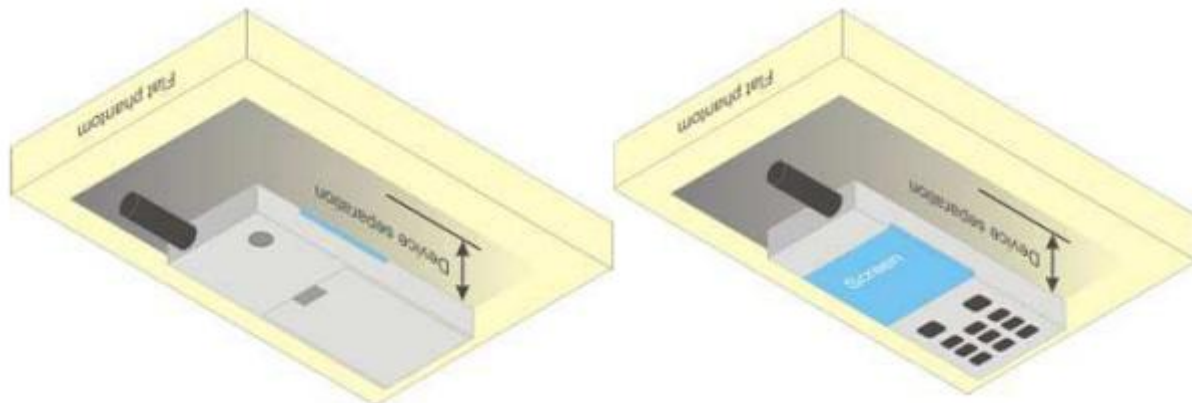


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

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

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

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	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)	33.00	32.84	32.93	32.87	23.97	23.81	23.90	23.84
GPRS(GMSK,1 Tx slot)	33.00	32.84	32.93	32.87	23.97	23.81	23.90	23.84
GPRS(GMSK,2 Tx slot)	32.00	31.84	31.94	31.88	25.98	25.82	25.92	25.86
GPRS(GMSK,3 Tx slot)	30.00	29.77	29.86	29.85	25.74	25.51	25.60	25.59
GPRS(GMSK,4 Tx slot)	29.00	28.56	28.72	28.74	25.99	25.55	25.71	25.73
EGPRS(8PSK,1 Tx slot)	27.00	26.88	26.42	26.44	17.97	17.85	17.39	17.41
EGPRS(8PSK,2 Tx slot)	26.00	25.75	25.96	25.31	19.98	19.73	19.94	19.29
EGPRS(8PSK,3 Tx slot)	24.00	23.72	23.84	23.75	19.74	19.46	19.58	19.49
EGPRS(8PSK,4 Tx slot)	23.00	22.76	22.19	22.74	19.99	19.75	19.18	19.73
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)	31.00	30.85	30.73	30.56	21.97	21.82	21.70	21.53
GPRS(GMSK,1 Tx slot)	31.00	30.71	30.60	30.46	21.97	21.68	21.57	21.43
GPRS(GMSK,2 Tx slot)	30.00	29.73	29.64	29.55	23.98	23.71	23.62	23.53
GPRS(GMSK,3 Tx slot)	28.00	27.60	27.61	27.61	23.74	23.34	23.35	23.35
GPRS(GMSK,4 Tx slot)	27.00	26.40	26.48	26.54	23.99	23.39	23.47	23.53
EGPRS(8PSK,1 Tx slot)	27.00	26.41	26.57	26.23	17.97	17.38	17.54	17.20
EGPRS(8PSK,2 Tx slot)	26.00	25.70	25.77	25.35	19.98	19.68	19.75	19.33
EGPRS(8PSK,3 Tx slot)	24.50	24.01	23.87	23.38	20.24	19.75	19.61	19.12
EGPRS(8PSK,4 Tx slot)	23.00	22.75	22.25	22.02	19.99	19.74	19.24	19.01

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	23.00	22.48	22.52	22.34
HSDPA Sub 1	22.00	21.59	21.61	21.41
HSDPA Sub 2	21.50	21.07	21.13	20.96

HSDPA Sub 3	20.50	20.21	19.99	20.06
HSDPA Sub 4	20.50	20.05	19.94	19.59
HSUPA Sub 1	21.50	20.45	21.34	21.19
HSUPA Sub 2	21.50	20.03	21.38	21.22
HSUPA Sub 3	20.50	19.35	20.20	20.03
HSUPA Sub 4	21.50	21.41	21.49	21.30
HSUPA Sub 5	21.00	20.02	20.69	20.41
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	22.50	22.20	22.09	22.24
HSDPA Sub 1	21.50	21.29	21.19	21.32
HSDPA Sub 2	21.00	20.78	20.87	20.82
HSDPA Sub 3	20.50	20.01	19.62	19.53
HSDPA Sub 4	20.00	19.95	19.65	19.85
HSUPA Sub 1	21.50	19.80	21.05	21.15
HSUPA Sub 2	21.50	21.23	21.14	21.23
HSUPA Sub 3	20.00	19.67	19.75	20.00
HSUPA Sub 4	21.50	21.30	21.18	21.32
HSUPA Sub 5	21.00	19.87	20.54	20.61
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	22.50	22.40	22.38	22.24
HSDPA Sub 1	21.50	21.42	21.38	21.26
HSDPA Sub 2	21.00	20.99	20.89	20.86
HSDPA Sub 3	20.50	20.09	19.87	19.68
HSDPA Sub 4	20.50	19.64	20.09	19.79
HSUPA Sub 1	21.50	20.32	21.23	21.12
HSUPA Sub 2	21.50	21.35	21.31	21.17
HSUPA Sub 3	20.50	19.57	20.14	20.10
HSUPA Sub 4	21.50	21.43	21.40	21.26
HSUPA Sub 5	21.00	20.10	20.72	20.55

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.64	23.56	23.59
			1	2	24.00	23.55	23.62	22.59
			1	5	24.00	23.51	23.57	22.66
			3	0	24.00	23.68	23.58	21.68
			3	1	24.00	23.69	23.63	21.65
			3	2	24.00	23.74	23.60	20.64
			6	0	23.00	22.73	22.69	20.69
		16QAM	1	0	23.00	22.68	22.67	20.86
			1	2	23.00	22.78	22.66	20.94
			1	5	23.00	22.69	22.70	20.89
			3	0	23.00	22.82	22.84	20.79
			3	1	23.00	22.80	22.96	20.74
			3	2	23.00	22.77	22.77	20.72
			6	0	22.00	21.72	21.77	20.81
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	21.00	20.63	20.60	20.55
			1	7	21.00	20.59	20.58	20.58
			1	14	21.00	20.62	20.59	20.68
			8	0	21.00	20.65	20.69	20.74
			8	4	21.00	20.66	20.68	20.69
			8	7	21.00	20.66	20.65	20.72
			15	0	21.00	20.67	20.68	20.72
		16QAM	1	0	21.00	20.89	20.78	20.81
			1	7	21.00	20.80	20.80	20.83
			1	14	21.00	20.81	20.84	20.85
			8	0	21.00	20.77	20.75	20.78
			8	4	21.00	20.70	20.81	20.78
			8	7	21.00	20.71	20.73	20.76
			15	0	21.00	20.74	20.75	20.76
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	21.00	20.69	20.69	20.70

Band 2			1	12	21.00	20.64	20.70	20.67
			1	24	21.00	20.68	20.68	20.70
			12	0	21.00	20.72	20.72	20.76
			12	6	21.00	20.73	20.73	20.76
			12	11	21.00	20.69	20.74	20.74
			25	0	21.00	20.72	20.74	20.75
		16QAM	1	0	21.50	20.92	20.89	20.81
			1	12	21.50	20.90	20.88	20.85
			1	24	21.50	20.98	20.96	21.05
			12	0	21.00	20.69	20.78	20.76
			12	6	21.00	20.71	20.73	20.75
			12	11	21.00	20.70	20.72	20.76
			25	0	21.00	20.75	20.76	20.79
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	21.00	20.73	20.75	20.62
			1	24	21.00	20.63	20.73	20.65
			1	49	21.00	20.65	20.78	20.79
			25	0	21.00	20.72	20.73	20.75
			25	12	21.00	20.70	20.73	20.74
			25	24	21.00	20.69	20.77	20.78
			50	0	21.00	20.72	20.76	20.77
		16QAM	1	0	21.00	20.94	20.89	20.79
			1	24	21.00	20.94	20.82	20.96
			1	49	21.00	20.84	20.98	20.95
			25	0	21.00	20.71	20.76	20.71
			25	12	21.00	20.67	20.77	20.72
			25	24	21.00	20.71	20.76	20.78
			50	0	21.00	20.73	20.79	20.77
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	20.71	20.67	20.67
			1	37	21.00	20.66	20.72	20.66
			1	74	21.00	20.61	20.64	20.76
			36	0	21.00	20.72	20.75	20.74
			36	18	21.00	20.64	20.74	20.68
			36	37	21.00	20.66	20.74	20.75

			75	0	21.00	20.70	20.76	20.77
		16QAM	1	0	21.50	21.03	20.98	20.91
			1	37	21.50	20.83	20.85	20.90
			1	74	21.50	20.84	21.00	21.07
			36	0	21.00	20.73	20.77	20.70
			36	18	21.00	20.64	20.72	20.69
			36	37	21.00	20.66	20.75	20.77
			75	0	21.00	20.69	20.74	20.80
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	21.00	20.67	20.66	20.65
			1	49	21.00	20.63	20.70	20.64
			1	99	21.00	20.63	20.62	20.78
			50	0	21.00	20.74	20.79	20.82
			50	24	21.00	20.70	20.80	20.78
			50	49	21.00	20.72	20.77	20.78
			100	0	21.00	20.72	20.77	20.79
		16QAM	1	0	21.50	20.93	20.87	21.04
			1	49	21.50	20.96	20.94	20.88
			1	99	21.50	20.86	20.94	21.00
			50	0	21.00	20.74	20.75	20.79
			50	24	21.00	20.70	20.78	20.78
			50	49	21.00	20.70	20.75	20.76
			100	0	21.00	20.73	20.76	20.77

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	23.50	23.17	20.28	20.23
			1	2	23.50	23.18	20.24	20.24
			1	5	23.50	23.24	20.22	20.33
			3	0	23.50	23.19	20.24	20.28
			3	1	23.50	23.18	20.25	20.28
			3	2	23.50	23.18	20.25	20.30
			6	0	22.50	22.18	20.30	20.34
		16QAM	1	0	22.50	22.38	20.53	20.46
			1	2	22.50	22.36	20.57	20.55

			1	5	22.50	22.39	20.51	20.61
			3	0	22.50	22.26	20.39	20.39
			3	1	22.50	21.07	20.36	20.39
			3	2	22.50	21.21	20.31	20.46
			6	0	20.50	20.28	20.38	20.41
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	20.50	20.15	20.14	20.17
			1	7	20.50	20.15	20.29	20.25
			1	14	20.50	20.14	20.33	20.29
			8	0	20.50	20.25	20.28	20.32
			8	4	20.50	20.20	20.27	20.34
			8	7	20.50	20.19	20.26	20.34
			15	0	20.50	20.22	20.29	20.30
		16QAM	1	0	21.00	20.48	20.37	20.42
			1	7	21.00	20.35	20.49	20.44
			1	14	21.00	20.34	20.59	20.63
			8	0	20.50	20.26	20.32	20.40
			8	4	20.50	20.25	20.35	20.43
			8	7	20.50	20.28	20.35	20.43
			15	0	20.50	20.24	20.32	20.37
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	20.50	20.22	20.22	20.20
			1	12	20.50	20.17	20.30	20.34
			1	24	20.50	20.18	20.29	20.35
			12	0	20.50	20.26	20.27	20.32
			12	6	20.50	20.23	20.33	20.36
			12	11	20.50	20.22	20.34	20.40
			25	0	20.50	20.25	20.34	20.36
		16QAM	1	0	21.00	20.47	20.55	20.60
			1	12	21.00	20.57	20.59	20.61
			1	24	21.00	20.37	20.65	20.56
			12	0	20.50	20.26	20.33	20.35
			12	6	20.50	20.28	20.34	20.38

			12	11	20.50	20.25	20.36	20.42
			25	0	20.50	20.28	20.37	20.39
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	20.50	20.23	20.16	20.24
			1	24	20.50	20.14	20.26	20.20
			1	49	20.50	20.15	20.32	20.35
			25	0	20.50	20.20	20.25	20.26
			25	12	20.50	20.20	20.31	20.28
			25	24	20.50	20.19	20.32	20.34
			50	0	20.50	20.19	20.28	20.30
		16QAM	1	0	21.00	20.60	20.48	20.59
			1	24	21.00	20.45	20.52	20.41
			1	49	21.00	20.32	20.61	20.16
			25	0	20.50	20.20	20.26	20.27
			25	12	20.50	20.20	20.33	20.31
			25	24	20.50	20.19	20.32	20.39
			50	0	20.50	20.19	20.31	20.29
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	20.50	20.20	20.21	20.21
			1	37	20.50	20.13	19.81	20.25
			1	74	20.50	20.21	20.28	20.31
			36	0	20.50	20.17	20.24	20.24
			36	18	20.50	20.14	20.26	20.23
			36	37	20.50	20.16	20.30	20.30
			75	0	20.50	20.19	20.31	20.29
		16QAM	1	0	21.00	20.51	20.39	20.46
			1	37	21.00	20.28	20.08	20.52
			1	74	21.00	20.48	20.60	20.66
			36	0	20.50	20.14	20.26	20.22
			36	18	20.50	20.17	20.30	20.24
			36	37	20.50	20.19	20.35	20.31
			75	0	20.50	20.20	20.34	20.30
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		(dBm)			
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	20.50	20.18	19.57	20.23
			1	49	20.50	20.11	19.79	19.73
			1	99	20.50	19.74	19.84	19.79
			50	0	20.50	20.15	20.28	20.29
			50	24	20.50	20.21	20.29	20.28
			50	49	20.50	20.27	20.35	20.32
			100	0	20.50	20.20	20.28	20.31
		16QAM	1	0	21.00	20.49	19.83	20.47
			1	49	21.00	19.84	20.54	20.45
			1	99	21.00	20.39	20.53	20.04
			50	0	20.50	20.14	20.27	20.29
			50	24	20.50	20.21	20.30	20.31
			50	49	20.50	20.27	20.35	20.35
			100	0	20.50	20.17	20.30	20.31

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	20.50	20.36	20.35	19.79
			1	2	20.50	20.28	19.81	19.81
			1	5	20.50	20.34	19.86	19.79
			3	0	20.50	20.33	20.32	20.30
			3	1	20.50	20.31	20.31	20.27
			3	2	20.50	20.37	20.31	20.31
			6	0	20.50	20.31	20.31	20.30
		16QAM	1	0	21.00	20.65	20.14	20.11
			1	2	21.00	20.66	20.63	20.11
			1	5	21.00	20.17	20.17	20.03
			3	0	20.50	20.25	20.30	20.37
			3	1	20.50	20.27	20.33	20.34
			3	2	20.50	20.26	20.25	20.29
			6	0	20.50	20.40	20.43	20.44
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	3MHz	QPSK	1	0	20.00	19.81	19.84	19.80

Band 5			1	7	20.00	19.82	19.81	19.77
			1	14	20.00	19.83	19.82	19.80
			8	0	20.50	20.35	20.37	20.38
			8	4	20.50	20.33	20.35	20.35
			8	7	20.50	20.36	20.36	20.33
			15	0	20.50	20.33	20.35	20.33
		16QAM	1	0	20.50	20.17	20.08	20.11
			1	7	20.50	20.16	20.13	20.11
			1	14	20.50	20.14	20.16	20.00
			8	0	20.50	20.41	20.39	20.42
			8	4	20.50	20.41	20.41	20.42
			8	7	20.50	20.43	20.40	20.37
			15	0	20.50	20.37	20.35	20.33
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	20.50	19.87	19.92	19.86
			1	12	20.50	20.32	19.90	19.83
			1	24	20.50	19.83	19.89	19.85
			12	0	20.50	20.40	20.42	20.39
			12	6	20.50	20.39	20.38	20.37
			12	11	20.50	20.42	20.36	20.38
			25	0	20.50	20.44	20.43	20.39
		16QAM	1	0	20.50	20.23	20.26	20.19
			1	12	20.50	20.07	20.21	20.16
			1	24	20.50	20.10	20.09	20.09
			12	0	20.50	20.38	20.43	20.35
			12	6	20.50	20.38	20.42	20.40
			12	11	20.50	20.37	20.37	20.36
			25	0	20.50	20.41	20.43	20.40
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	20.00	19.87	19.93	19.96
			1	24	20.00	19.82	19.86	19.82
			1	49	20.00	19.91	19.90	19.82
			25	0	20.50	20.33	20.37	20.42
			25	12	20.50	20.33	20.35	20.35
			25	24	20.50	20.37	20.34	20.38

			50	0	20.50	20.38	20.34	20.38
		16QAM	1	0	20.50	20.18	20.20	20.14
			1	24	20.50	20.15	20.18	20.09
			1	49	20.50	20.15	20.17	20.21
			25	0	20.50	20.35	20.36	20.40
			25	12	20.50	20.33	20.31	20.35
			25	24	20.50	20.36	20.33	20.36
			50	0	20.50	20.35	20.36	20.35

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	21.00	20.69	20.53	20.63
			1	12	21.00	20.25	20.52	20.56
			1	24	21.00	20.32	20.56	20.56
			12	0	21.50	20.69	21.03	21.12
			12	6	21.50	20.74	21.06	21.09
			12	11	21.50	20.79	21.05	21.04
			25	0	21.50	20.80	21.10	21.11
		16QAM	1	0	21.00	20.47	20.92	20.99
			1	12	21.00	20.65	20.90	20.97
			1	24	21.00	20.64	20.74	20.84
			12	0	21.50	20.73	21.06	21.14
			12	6	21.50	20.79	21.04	21.12
			12	11	21.50	20.81	21.06	21.06
			25	0	21.50	20.77	21.09	21.10
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	21.00	20.25	20.54	20.65
			1	24	21.00	20.31	20.56	20.62
			1	49	21.00	20.38	20.58	20.57
			25	0	21.50	20.76	21.06	21.16
			25	12	21.50	20.83	21.06	21.11
			25	24	21.50	20.88	21.08	21.06
			50	0	21.50	20.84	21.04	21.12
		16QAM	1	0	21.50	20.62	20.91	21.05
			1	24	21.50	20.76	20.96	20.96
			1	49	21.50	20.68	20.84	20.89

			25	0	21.50	20.77	21.03	21.13
			25	12	21.50	20.82	21.05	21.11
			25	24	21.50	20.86	21.05	21.07
			50	0	21.50	20.84	21.07	21.14
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	21.50	20.26	20.47	21.06
			1	37	21.50	20.39	20.61	21.16
			1	74	21.50	20.34	20.62	21.11
			36	0	21.50	20.80	21.04	21.09
			36	18	21.50	20.86	21.04	21.07
			36	37	21.50	20.88	21.08	21.04
			75	0	21.50	20.85	21.05	21.10
		16QAM	1	0	21.50	20.56	20.75	21.46
			1	37	21.50	20.63	21.00	20.82
			1	74	21.50	20.73	20.96	20.99
			36	0	21.50	20.81	21.01	21.10
			36	18	21.50	20.86	21.05	21.06
			36	37	21.50	20.91	21.09	21.06
			75	0	21.50	20.88	21.10	21.12
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	21.00	20.24	20.43	20.53
			1	49	21.00	20.39	20.60	20.61
			1	99	21.00	20.24	20.58	20.63
			50	0	21.50	20.85	21.08	21.14
			50	24	21.50	20.91	21.13	21.13
			50	49	21.50	20.85	21.12	21.10
			100	0	21.50	20.85	21.09	21.13
		16QAM	1	0	21.50	20.47	20.67	20.88
			1	49	21.50	20.76	20.93	21.01
			1	99	21.50	20.45	20.98	20.96
			50	0	21.50	20.85	21.07	21.16
			50	24	21.50	20.92	21.10	21.15
			50	49	21.50	20.87	21.11	21.13
			100	0	21.50	20.85	21.07	21.11

Band	Band	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)
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	Width		RB Size	RB Offset	(dBm)	23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.50	23.42	20.38	20.26
			1	2	23.50	23.41	20.37	20.27
			1	5	23.50	23.48	20.41	20.26
			3	0	23.00	22.44	20.35	20.31
			3	1	23.00	22.50	20.32	20.24
			3	2	23.00	21.47	20.32	20.22
			6	0	21.50	21.44	20.40	20.28
		16QAM	1	0	21.00	20.67	20.68	20.00
			1	2	21.00	20.59	20.56	20.03
			1	5	21.00	20.73	20.64	19.98
			3	0	20.50	20.45	20.35	20.24
			3	1	20.50	20.47	20.31	20.33
			3	2	20.50	20.46	20.33	20.26
			6	0	21.00	20.51	20.41	20.38
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	20.00	19.91	19.90	19.82
			1	7	20.00	19.93	19.82	19.72
			1	14	20.00	19.96	19.82	19.74
			8	0	21.00	20.58	20.28	20.39
			8	4	21.00	20.49	20.31	20.31
			8	7	21.00	20.47	20.37	20.29
			15	0	21.00	20.50	20.38	20.31
		16QAM	1	0	20.50	20.11	20.12	20.02
			1	7	20.50	20.22	20.19	20.00
			1	14	20.50	20.18	20.13	20.02
			8	0	21.00	20.60	20.39	20.41
			8	4	21.00	20.51	20.45	20.34
			8	7	21.00	20.49	20.47	20.32
			15	0	20.50	20.48	20.35	20.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	20.50	20.02	19.90	19.90
			1	12	20.50	19.99	19.88	19.80
			1	24	20.50	20.00	19.91	19.80

			12	0	21.00	20.57	20.41	20.42
			12	6	21.00	20.47	20.41	20.36
			12	11	21.00	20.47	20.42	20.31
			25	0	21.00	20.56	20.45	20.40
		16QAM	1	0	20.50	20.18	20.16	20.20
			1	12	20.50	20.15	20.22	20.16
			1	24	20.50	20.16	20.12	20.06
			12	0	21.00	20.63	20.37	20.45
			12	6	21.00	20.49	20.39	20.35
			12	11	21.00	20.48	20.39	20.34
			25	0	21.00	20.54	20.42	20.40
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	20.50	20.02	20.05	19.99
			1	24	20.50	19.88	19.87	19.86
			1	49	20.50	19.90	19.85	19.81
			25	0	21.00	20.52	20.33	20.31
			25	12	21.00	20.38	20.37	20.31
			25	24	21.00	20.51	20.38	20.28
			50	0	21.00	20.50	20.34	20.32
		16QAM	1	0	20.50	20.30	20.21	20.27
			1	24	20.50	20.10	20.22	20.24
			1	49	20.50	20.10	20.16	20.16
			25	0	21.00	20.53	20.32	20.32
			25	12	21.00	20.38	20.35	20.32
			25	24	21.00	20.50	20.37	20.29
			50	0	21.00	20.51	20.31	20.31

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	23.00	22.98	22.95	22.88
			1	12	23.00	22.91	22.87	22.80
			1	24	23.00	22.91	22.85	22.79
			12	0	22.50	22.01	21.88	21.81
			12	6	22.50	21.95	21.88	21.81
			12	11	22.50	21.91	21.90	21.74
			25	0	22.50	22.01	21.88	21.79

		16QAM	1	0	22.50	22.10	22.17	22.05
			1	12	22.50	22.14	22.18	22.13
			1	24	22.50	22.09	21.99	22.00
			12	0	21.50	21.04	20.88	20.83
			12	6	21.50	20.94	20.87	20.81
			12	11	21.50	20.93	20.86	20.74
			25	0	21.00	20.96	20.86	20.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	23.00	/	22.94	/
			1	24	23.00	/	22.81	/
			1	49	23.00	/	22.74	/
			25	0	22.00	/	21.87	/
			25	12	22.00	/	21.81	/
			25	24	22.00	/	21.79	/
			50	0	22.00	/	21.79	/
		16QAM	1	0	22.50	/	22.21	/
			1	24	22.50	/	22.08	/
			1	49	22.50	/	21.88	/
			25	0	21.00	/	20.87	/
			25	12	21.00	/	20.81	/
			25	24	21.00	/	20.82	/
			50	0	21.00	/	20.79	/

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	20.50	20.48	19.99	19.91
			1	12	20.50	20.38	20.06	19.82
			1	24	20.50	20.46	19.88	19.80
			12	0	21.00	20.40	20.40	20.39
			12	6	21.00	20.40	20.40	20.30
			12	11	21.00	20.52	20.35	20.27
			25	0	20.50	20.45	20.41	20.37
		16QAM	1	0	21.00	20.72	20.31	20.18
			1	12	21.00	20.56	20.20	20.13
			1	24	21.00	20.59	20.08	20.09
			12	0	20.50	20.39	20.43	20.39

			12	6	20.50	20.44	20.41	20.30
			12	11	20.50	20.49	20.34	20.29
			25	0	20.50	20.45	20.39	20.37
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	20.00	19.99	19.96	19.92
			1	24	20.00	19.91	19.85	19.84
			1	49	20.00	19.82	19.82	19.79
			25	0	20.50	20.30	20.29	20.34
			25	12	20.50	20.35	20.34	20.32
			25	24	20.50	20.29	20.26	20.23
			50	0	20.50	20.27	20.30	20.30
		16QAM	1	0	20.50	20.29	20.26	20.06
			1	24	20.50	20.22	20.25	20.12
			1	49	20.50	20.04	20.08	20.14
			25	0	20.50	20.26	20.26	20.33
			25	12	20.50	20.35	20.34	20.31
			25	24	20.50	20.28	20.24	20.25
			50	0	20.50	20.25	20.29	20.31

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		24025/832.5	24075/837.5	24125/842.5
LTE Band 19	5MHz	QPSK	1	0	23.50	23.41	23.37	23.45
			1	12	23.50	23.37	23.46	23.37
			1	24	23.50	23.45	23.43	23.40
			12	0	22.50	22.35	22.41	22.44
			12	6	22.50	22.34	22.44	22.37
			12	11	22.50	22.36	22.41	22.37
			25	0	22.50	22.39	22.43	22.42
		16QAM	1	0	23.00	22.64	22.65	22.77
			1	12	23.00	22.50	22.69	22.54
			1	24	23.00	22.57	22.77	22.62
			12	0	21.50	21.36	21.42	21.42
			12	6	21.50	21.36	21.45	21.41
			12	11	21.50	21.38	21.41	21.36
			25	0	21.50	21.35	21.44	21.41
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	24050/835	24075/837.5	24100/840
LTE Band 19	10MHz	QPSK	1	0	23.50	23.29	21.37	20.42
			1	24	23.50	23.27	21.42	20.40
			1	49	23.50	23.38	21.43	20.37
			25	0	22.50	22.32	21.40	20.43
			25	12	22.50	22.35	20.36	20.39
			25	24	22.50	22.33	20.35	20.37
			50	0	22.50	22.33	20.39	20.41
		16QAM	1	0	22.00	21.58	20.60	20.81
			1	24	22.00	21.61	20.69	20.70
			1	49	22.00	21.80	20.61	20.61
			25	0	21.50	21.33	20.39	20.43
			25	12	21.50	21.35	20.38	20.37
			25	24	21.50	21.34	20.36	20.38
			50	0	21.50	21.35	20.39	20.42
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		24075/837.5	24075/837.5	24075/837.5
LTE Band 19	15MHz	QPSK	1	0	24.00	20.34	23.64	23.56
			1	37	24.00	20.53	23.55	23.62
			1	74	24.00	20.37	23.51	23.57
			36	0	24.00	20.37	23.68	23.58
			36	18	24.00	20.41	23.69	23.63
			36	37	24.00	20.36	23.74	23.60
			75	0	23.00	20.42	22.73	22.69
		16QAM	1	0	23.00	20.66	22.68	22.67
			1	37	23.00	20.79	22.78	22.66
			1	74	23.00	20.62	22.69	22.70
			36	0	23.00	20.39	22.82	22.84
			36	18	23.00	20.42	22.80	22.96
			36	37	23.00	20.40	22.77	22.77
			75	0	22.00	20.43	21.72	21.77

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26047/1850.7	26365/1882.5	26683/1914.3
LTE	1.4MHz	QPSK	1	0	24.00	23.48	20.53	20.44

Band 25			1	2	24.00	23.58	20.50	20.52
			1	5	24.00	23.61	20.58	20.55
			3	0	24.00	23.70	20.53	20.50
			3	1	24.00	23.73	20.49	20.51
			3	2	24.00	23.66	20.49	20.55
			6	0	23.00	22.71	20.60	20.57
		16QAM	1	0	23.00	22.76	20.69	20.68
			1	2	23.00	21.88	20.80	20.67
			1	5	23.00	21.63	20.67	20.61
			3	0	21.00	20.63	20.64	20.70
			3	1	21.00	20.70	20.60	20.65
			3	2	21.00	20.68	20.62	20.63
			6	0	21.00	20.69	20.61	20.62
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26055/1851.5	26365/1882.5	26675/1913.5
LTE Band 25	3MHz	QPSK	1	0	21.00	20.62	20.56	20.48
			1	7	21.00	20.48	20.48	20.40
			1	14	21.00	20.55	20.50	20.50
			8	0	21.00	20.64	20.59	20.57
			8	4	21.00	20.62	20.57	20.57
			8	7	21.00	20.59	20.52	20.54
			15	0	21.00	20.66	20.53	20.55
		16QAM	1	0	21.00	20.80	20.75	20.76
			1	7	21.00	20.68	20.73	20.55
			1	14	21.00	20.76	20.64	20.66
			8	0	21.00	20.75	20.68	20.66
			8	4	21.00	20.78	20.63	20.64
			8	7	21.00	20.73	20.59	20.63
			15	0	21.00	20.72	20.62	20.64
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26065/1852.5	26365/1882.5	26665/1912.5
LTE Band 25	5MHz	QPSK	1	0	21.00	20.73	20.59	20.65
			1	12	21.00	20.62	20.64	20.57
			1	24	21.00	20.61	20.59	20.57
			12	0	21.00	20.69	20.65	20.66

			12	6	21.00	20.66	20.60	20.60
			12	11	21.00	20.64	20.59	20.59
			25	0	21.00	20.70	20.59	20.66
		16QAM	1	0	21.00	20.90	20.73	20.96
			1	12	21.00	20.84	20.74	20.83
			1	24	21.00	20.84	20.69	20.75
			12	0	21.00	20.71	20.63	20.65
			12	6	21.00	20.66	20.60	20.63
			12	11	21.00	20.64	20.59	20.61
			25	0	21.00	20.69	20.62	20.69
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26090/1855	26365/1882.5	26640/1910
LTE Band 25	10MHz	QPSK	1	0	21.00	20.25	20.61	20.60
			1	24	21.00	20.15	20.32	20.14
			1	49	21.00	20.61	20.02	20.60
			25	0	21.00	20.67	20.67	20.68
			25	12	21.00	20.60	20.60	20.65
			25	24	21.00	20.60	20.61	20.67
			50	0	21.00	20.63	20.62	20.67
		16QAM	1	0	21.00	20.93	20.89	20.90
			1	24	21.00	20.79	20.83	20.41
			1	49	21.00	20.80	20.25	20.36
			25	0	21.00	20.66	20.66	20.71
			25	12	21.00	20.64	20.62	20.70
			25	24	21.00	20.61	20.60	20.69
			50	0	21.00	20.63	20.63	20.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26115/1857.5	26365/1882.5	26615/1907.5
LTE Band 25	15MHz	QPSK	1	0	21.00	20.76	20.59	20.37
			1	37	21.00	20.15	20.20	20.14
			1	74	21.00	20.09	20.06	20.68
			36	0	21.00	20.66	20.64	20.63
			36	18	21.00	20.57	20.58	20.65
			36	37	21.00	20.56	20.58	20.63
			75	0	21.00	20.61	20.63	20.67

		16QAM	1	0	21.00	20.41	20.36	20.21
			1	37	21.00	20.32	20.29	20.44
			1	74	21.00	20.62	20.76	20.62
			36	0	21.00	20.66	20.65	20.65
			36	18	21.00	20.56	20.58	20.62
			36	37	21.00	20.55	20.61	20.65
			75	0	21.00	20.61	20.62	20.69
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26140/1860	26365/1882.5	26590/1905
LTE Band 25	20MHz	QPSK	1	0	21.00	20.25	20.10	20.10
			1	49	21.00	20.12	20.19	20.55
			1	99	21.00	20.62	20.03	20.16
			50	0	21.00	20.67	20.67	20.65
			50	24	21.00	20.65	20.67	20.68
			50	49	21.00	20.62	20.65	20.71
			100	0	21.00	20.64	20.64	20.67
		16QAM	1	0	21.00	20.41	20.32	20.19
			1	49	21.00	20.86	20.44	20.40
			1	99	21.00	20.17	20.17	20.36
			50	0	21.00	20.64	20.69	20.66
			50	24	21.00	20.64	20.65	20.70
			50	49	21.00	20.61	20.64	20.70
			100	0	21.00	20.62	20.62	20.70

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37775/2572.5	38000/2595	38225/2617.5
LTE Band 38	5MHz	QPSK	1	0	26.00	25.61	25.63	25.71
			1	12	26.00	25.63	25.59	25.63
			1	24	26.00	25.67	25.55	25.57
			12	0	25.00	24.72	24.70	24.80
			12	6	25.00	24.70	24.59	24.69
			12	11	25.00	24.72	24.59	24.66
			25	0	25.00	24.75	24.66	24.72
		16QAM	1	0	25.00	24.84	24.88	24.96
			1	12	25.00	24.88	24.83	24.84
			1	24	25.00	24.88	24.75	24.79

			12	0	24.00	23.76	23.75	23.84
			12	6	24.00	23.78	23.65	23.76
			12	11	24.00	23.78	23.64	23.73
			25	0	24.00	23.79	23.71	23.80
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37800/2575	38000/2595	38200/2615
LTE Band 38	10MHz	QPSK	1	0	26.00	25.71	25.80	25.75
			1	24	26.00	25.68	25.64	25.71
			1	49	26.00	25.78	25.58	25.62
			25	0	25.00	24.78	24.75	24.80
			25	12	25.00	24.76	24.68	24.78
			25	24	25.00	24.80	24.64	24.77
			50	0	25.00	24.82	24.70	24.80
		16QAM	1	0	25.50	24.95	25.03	25.01
			1	24	25.50	24.94	24.87	24.99
			1	49	25.50	25.01	24.81	24.84
			25	0	24.00	23.85	23.80	23.84
			25	12	24.00	23.83	23.71	23.82
			25	24	24.00	23.85	23.69	23.81
			50	0	24.00	23.87	23.76	23.84
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37825/2577.5	38000/2595	38175/2615
LTE Band 38	15MHz	QPSK	1	0	26.00	25.74	25.84	25.73
			1	37	26.00	25.77	25.68	25.73
			1	74	26.00	25.79	25.62	25.66
			36	0	25.00	24.81	24.80	24.80
			36	18	25.00	24.80	24.68	24.78
			36	37	25.00	24.83	24.62	24.77
			75	0	25.00	24.86	24.74	24.82
		16QAM	1	0	25.50	24.98	25.07	24.97
			1	37	25.50	25.05	24.91	24.98
			1	74	25.50	25.01	24.85	24.90
			36	0	24.00	23.81	23.80	23.80
			36	18	24.00	23.80	23.68	23.80
			36	37	24.00	23.83	23.62	23.78
			75	0	24.00	23.91	23.78	23.87
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	37850/2580	38000/2595	38150/2610
LTE Band 38	20MHz	QPSK	1	0	26.00	25.76	25.86	25.71
			1	49	26.00	25.80	25.70	25.72
			1	99	26.00	25.79	25.64	25.66
			50	0	25.00	24.92	24.88	24.83
			50	24	25.00	24.90	24.77	24.85
			50	49	25.00	24.91	24.68	24.82
			100	0	25.00	24.91	24.77	24.82
		16QAM	1	0	25.50	25.02	25.12	24.93
			1	49	25.50	25.04	24.92	24.96
			1	99	25.50	25.03	24.88	24.93
			50	0	24.00	23.98	23.94	23.88
			50	24	24.00	23.93	23.80	23.90
			50	49	24.00	23.96	23.73	23.89
			100	0	24.00	23.94	23.80	23.85

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	27.50	26.52	27.44	27.26	26.83	27.43
			1	12	27.50	26.62	27.30	27.24	26.71	27.43
			1	24	27.50	26.75	27.05	27.19	27.03	27.46
			12	0	27.00	25.62	26.06	26.33	26.30	26.51
			12	6	27.00	25.69	26.39	26.25	26.44	26.49
			12	11	27.00	25.73	26.28	26.22	26.26	26.54
			25	0	27.00	25.66	26.18	26.30	26.22	26.52
		16QAM	1	0	27.00	25.71	26.13	26.51	26.01	26.62
			1	12	27.00	25.79	26.44	26.52	26.34	26.68
			1	24	27.00	25.91	25.78	26.36	26.48	26.71
			12	0	26.00	24.66	24.87	25.39	25.57	25.60
			12	6	26.00	24.71	24.71	25.32	25.17	25.58
			12	11	26.00	24.78	24.92	25.28	25.59	25.59
			25	0	26.00	24.74	25.04	25.36	25.37	25.60
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	27.50	26.56	26.64	27.44	27.39	27.43
			1	24	27.50	26.71	26.78	27.29	26.67	27.43
			1	49	27.50	26.90	27.15	27.19	27.09	27.49
			25	0	27.00	25.70	26.01	26.42	26.37	26.50
			25	12	27.00	25.79	25.99	26.32	26.48	26.53
			25	24	27.00	25.91	26.38	26.23	25.75	26.56
			50	0	27.00	25.82	26.35	26.32	26.53	26.58
		16QAM	1	0	27.00	25.78	25.92	26.69	25.88	26.74
			1	24	27.00	25.95	25.90	26.43	26.28	26.70
			1	49	27.00	26.19	26.71	26.47	25.88	26.73
			25	0	26.00	24.76	25.44	25.48	25.00	25.58
			25	12	26.00	24.85	25.06	25.34	25.09	25.60
			25	24	26.00	24.95	24.96	25.29	25.38	25.62
			50	0	26.00	24.88	25.59	25.41	25.03	25.59
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	27.50	26.59	27.03	27.48	27.41	27.30
			1	37	27.50	26.87	26.64	27.32	27.26	27.36
			1	74	27.50	27.02	26.64	27.21	27.14	27.41
			36	0	26.50	25.79	25.88	26.46	25.87	26.38
			36	18	26.50	25.91	26.04	26.33	26.17	26.41
			36	37	26.50	26.01	26.37	26.28	26.08	26.44
			75	0	26.50	25.92	26.22	26.33	26.42	26.44
		16QAM	1	0	27.00	25.78	26.56	26.88	26.62	26.48
			1	37	27.00	26.07	26.30	26.60	26.24	26.69
			1	74	27.00	26.21	25.78	26.39	26.09	26.56
			36	0	25.50	24.82	25.34	25.43	25.08	25.41
			36	18	25.50	24.96	24.99	25.33	25.22	25.43
			36	37	25.50	25.07	25.22	25.26	25.19	25.48
			75	0	25.50	24.94	25.47	25.39	25.40	25.49
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	28.00	26.61	27.52	27.55	26.88	27.32
			1	49	28.00	26.90	27.48	27.37	27.28	27.30
			1	99	28.00	26.97	27.05	27.05	26.82	27.39

			50	0	27.00	25.86	26.18	26.54	26.47	26.37
			50	24	27.00	26.03	26.32	26.41	26.23	26.44
			50	49	27.00	26.10	26.08	26.27	26.44	26.45
			100	0	26.50	26.00	26.18	26.41	26.09	26.42
		16QAM	1	0	27.00	25.88	26.75	26.76	26.44	26.53
			1	49	27.00	26.16	26.48	26.51	26.40	26.52
			1	99	27.00	26.14	26.21	26.34	26.32	26.57
			50	0	26.00	24.93	25.33	25.60	25.39	25.42
			50	24	26.00	25.09	25.03	25.46	25.11	25.47
			50	49	26.00	25.17	24.95	25.33	25.24	25.51
			100	0	25.50	25.03	25.44	25.45	25.42	25.45

7.4. NR SA Power

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Tune-up(dBm)	Power (dBm)
n78	30	10	620334	1@1	DFT_BPSK	27.00	26.94
n78	30	10	620334	24@0	DFT_QPSK	26.00	25.93
n78	30	10	620334	12@6	DFT_QPSK	27.00	26.90
n78	30	10	620334	1@1	DFT_QPSK	27.00	26.94
n78	30	10	620334	1@22	DFT_QPSK	27.00	26.85
n78	30	10	620334	1@1	DFT_QAM16	26.00	25.98
n78	30	10	620334	1@1	DFT_QAM64	25.00	24.52
n78	30	10	620334	1@1	DFT_QAM256	22.50	22.32
n78	30	10	620334	1@1	CP_QPSK	26.00	25.57
n78	30	10	636666	1@1	DFT_BPSK	27.50	27.01
n78	30	10	636666	24@0	DFT_QPSK	26.00	25.99
n78	30	10	636666	12@6	DFT_QPSK	27.50	27.05
n78	30	10	636666	1@1	DFT_QPSK	27.50	27.02
n78	30	10	636666	1@22	DFT_QPSK	27.00	26.90
n78	30	10	636666	1@1	DFT_QAM16	26.50	26.10
n78	30	10	636666	1@1	DFT_QAM64	25.00	24.66
n78	30	10	636666	1@1	DFT_QAM256	22.50	22.47
n78	30	10	636666	1@1	CP_QPSK	26.00	25.78
n78	30	10	653000	1@1	DFT_BPSK	27.50	27.22
n78	30	10	653000	24@0	DFT_QPSK	26.50	26.34
n78	30	10	653000	12@6	DFT_QPSK	27.50	27.42
n78	30	10	653000	1@1	DFT_QPSK	27.50	27.29
n78	30	10	653000	1@22	DFT_QPSK	27.50	27.26

n78	30	10	653000	1@1	DFT_QAM16	26.50	26.41
n78	30	10	653000	1@1	DFT_QAM64	25.00	24.85
n78	30	10	653000	1@1	DFT_QAM256	23.00	22.68
n78	30	10	653000	1@1	CP_QPSK	26.00	25.78
n78	30	15	620500	1@1	DFT_BPSK	26.00	26.00
n78	30	15	620500	36@0	DFT_QPSK	26.00	26.00
n78	30	15	620500	18@9	DFT_QPSK	27.50	27.08
n78	30	15	620500	1@1	DFT_QPSK	27.50	27.02
n78	30	15	620500	1@36	DFT_QPSK	27.00	26.88
n78	30	15	620500	1@1	DFT_QAM16	26.50	26.07
n78	30	15	620500	1@1	DFT_QAM64	25.00	24.61
n78	30	15	620500	1@1	DFT_QAM256	22.50	22.41
n78	30	15	620500	1@1	CP_QPSK	26.00	25.59
n78	30	15	636666	1@1	DFT_BPSK	26.50	26.14
n78	30	15	636666	36@0	DFT_QPSK	26.50	26.13
n78	30	15	636666	18@9	DFT_QPSK	27.50	27.16
n78	30	15	636666	1@1	DFT_QPSK	27.50	27.09
n78	30	15	636666	1@36	DFT_QPSK	27.00	26.98
n78	30	15	636666	1@1	DFT_QAM16	26.50	26.27
n78	30	15	636666	1@1	DFT_QAM64	25.00	24.82
n78	30	15	636666	1@1	DFT_QAM256	23.00	22.62
n78	30	15	636666	1@1	CP_QPSK	26.00	25.83
n78	30	15	652832	1@1	DFT_BPSK	27.50	27.30
n78	30	15	652832	36@0	DFT_QPSK	26.50	26.40
n78	30	15	652832	18@9	DFT_QPSK	27.50	27.38
n78	30	15	652832	1@1	DFT_QPSK	27.50	27.39
n78	30	15	652832	1@36	DFT_QPSK	27.50	27.33
n78	30	15	652832	1@1	DFT_QAM16	26.50	26.37
n78	30	15	652832	1@1	DFT_QAM64	25.00	24.93
n78	30	15	652832	1@1	DFT_QAM256	23.00	22.73
n78	30	15	652832	1@1	CP_QPSK	26.00	25.78
n78	30	20	620668	1@1	DFT_BPSK	27.00	27.00
n78	30	20	620668	50@0	DFT_QPSK	26.50	26.05
n78	30	20	620668	25@12	DFT_QPSK	27.50	27.01
n78	30	20	620668	1@1	DFT_QPSK	27.00	27.00
n78	30	20	620668	1@49	DFT_QPSK	27.00	26.88
n78	30	20	620668	1@1	DFT_QAM16	26.50	26.07
n78	30	20	620668	1@1	DFT_QAM64	25.00	24.64
n78	30	20	620668	1@1	DFT_QAM256	22.50	22.41

n78	30	20	620668	1@1	CP_QPSK	26.00	25.61
n78	30	20	636666	1@1	DFT_BPSK	27.50	27.16
n78	30	20	636666	50@0	DFT_QPSK	26.50	26.15
n78	30	20	636666	25@12	DFT_QPSK	27.50	27.15
n78	30	20	636666	1@1	DFT_QPSK	27.50	27.20
n78	30	20	636666	1@49	DFT_QPSK	27.50	27.04
n78	30	20	636666	1@1	DFT_QAM16	26.50	26.24
n78	30	20	636666	1@1	DFT_QAM64	25.00	24.93
n78	30	20	636666	1@1	DFT_QAM256	24.00	23.78
n78	30	20	636666	1@1	CP_QPSK	26.00	25.84
n78	30	20	652666	1@1	DFT_BPSK	27.50	27.15
n78	30	20	652666	50@0	DFT_QPSK	26.50	26.36
n78	30	20	652666	25@12	DFT_QPSK	27.50	27.42
n78	30	20	652666	1@1	DFT_QPSK	27.50	27.21
n78	30	20	652666	1@49	DFT_QPSK	27.50	27.28
n78	30	20	652666	1@1	DFT_QAM16	26.50	26.36
n78	30	20	652666	1@1	DFT_QAM64	25.00	24.80
n78	30	20	652666	1@1	DFT_QAM256	23.00	22.66
n78	30	20	652666	1@1	CP_QPSK	26.00	25.67
n78	30	40	621334	1@1	DFT_BPSK	27.00	26.97
n78	30	40	621334	100@0	DFT_QPSK	26.50	26.01
n78	30	40	621334	50@25	DFT_QPSK	27.00	26.98
n78	30	40	621334	1@1	DFT_QPSK	27.50	27.03
n78	30	40	621334	1@104	DFT_QPSK	27.00	26.67
n78	30	40	621334	1@1	DFT_QAM16	26.50	26.11
n78	30	40	621334	1@1	DFT_QAM64	25.00	24.67
n78	30	40	621334	1@1	DFT_QAM256	24.00	23.51
n78	30	40	621334	1@1	CP_QPSK	26.00	25.56
n78	30	40	636666	1@1	DFT_BPSK	26.50	26.23
n78	30	40	636666	100@0	DFT_QPSK	26.50	26.25
n78	30	40	636666	50@25	DFT_QPSK	27.50	27.20
n78	30	40	636666	1@1	DFT_QPSK	27.50	27.28
n78	30	40	636666	1@104	DFT_QPSK	27.50	27.02
n78	30	40	636666	1@1	DFT_QAM16	26.50	26.40
n78	30	40	636666	1@1	DFT_QAM64	25.00	24.98
n78	30	40	636666	1@1	DFT_QAM256	23.00	22.75
n78	30	40	636666	1@1	CP_QPSK	26.00	25.90
n78	30	40	652000	1@1	DFT_BPSK	27.50	27.02
n78	30	40	652000	100@0	DFT_QPSK	26.50	26.37

n78	30	40	652000	50@25	DFT_QPSK	27.50	27.31
n78	30	40	652000	1@1	DFT_QPSK	27.50	27.05
n78	30	40	652000	1@104	DFT_QPSK	27.50	27.42
n78	30	40	652000	1@1	DFT_QAM16	26.50	26.21
n78	30	40	652000	1@1	DFT_QAM64	25.00	24.68
n78	30	40	652000	1@1	DFT_QAM256	22.50	22.45
n78	30	40	652000	1@1	CP_QPSK	26.00	25.55
n78	30	50	621668	1@1	DFT_BPSK	27.00	26.95
n78	30	50	621668	128@0	DFT_QPSK	26.00	25.91
n78	30	50	621668	64@32	DFT_QPSK	27.00	26.94
n78	30	50	621668	1@1	DFT_QPSK	27.00	26.99
n78	30	50	621668	1@131	DFT_QPSK	27.00	26.52
n78	30	50	621668	1@1	DFT_QAM16	26.50	26.06
n78	30	50	621668	1@1	DFT_QAM64	25.00	24.64
n78	30	50	621668	1@1	DFT_QAM256	22.50	22.39
n78	30	50	621668	1@1	CP_QPSK	26.00	25.57
n78	30	50	636666	1@1	DFT_BPSK	27.50	27.21
n78	30	50	636666	128@0	DFT_QPSK	26.50	26.28
n78	30	50	636666	64@32	DFT_QPSK	27.50	27.26
n78	30	50	636666	1@1	DFT_QPSK	27.50	27.23
n78	30	50	636666	1@131	DFT_QPSK	27.00	26.86
n78	30	50	636666	1@1	DFT_QAM16	26.50	26.27
n78	30	50	636666	1@1	DFT_QAM64	25.00	24.96
n78	30	50	636666	1@1	DFT_QAM256	23.00	22.70
n78	30	50	636666	1@1	CP_QPSK	26.00	25.85
n78	30	50	651666	1@1	DFT_BPSK	27.50	27.08
n78	30	50	651666	128@0	DFT_QPSK	26.50	26.36
n78	30	50	651666	64@32	DFT_QPSK	27.50	27.35
n78	30	50	651666	1@1	DFT_QPSK	27.50	27.18
n78	30	50	651666	1@131	DFT_QPSK	27.50	27.40
n78	30	50	651666	1@1	DFT_QAM16	26.50	26.20
n78	30	50	651666	1@1	DFT_QAM64	25.00	24.71
n78	30	50	651666	1@1	DFT_QAM256	23.00	22.53
n78	30	50	651666	1@1	CP_QPSK	26.00	25.59
n78	30	60	622000	1@1	DFT_BPSK	27.00	26.92
n78	30	60	622000	162@0	DFT_QPSK	26.00	25.80
n78	30	60	622000	81@40	DFT_QPSK	27.00	26.83
n78	30	60	622000	1@1	DFT_QPSK	27.00	26.98
n78	30	60	622000	1@160	DFT_QPSK	27.00	26.62

n78	30	60	622000	1@1	DFT_QAM16	26.50	26.03
n78	30	60	622000	1@1	DFT_QAM64	25.00	24.59
n78	30	60	622000	1@1	DFT_QAM256	22.50	22.39
n78	30	60	622000	1@1	CP_QPSK	26.00	25.50
n78	30	60	636666	1@1	DFT_BPSK	27.50	27.13
n78	30	60	636666	162@0	DFT_QPSK	26.50	26.18
n78	30	60	636666	81@40	DFT_QPSK	27.50	27.22
n78	30	60	636666	1@1	DFT_QPSK	27.50	27.17
n78	30	60	636666	1@160	DFT_QPSK	27.00	26.71
n78	30	60	636666	1@1	DFT_QAM16	26.50	26.18
n78	30	60	636666	1@1	DFT_QAM64	25.00	24.85
n78	30	60	636666	1@1	DFT_QAM256	23.00	22.65
n78	30	60	636666	1@1	CP_QPSK	26.00	25.81
n78	30	60	651332	1@1	DFT_BPSK	27.00	26.96
n78	30	60	651332	162@0	DFT_QPSK	26.50	26.45
n78	30	60	651332	81@40	DFT_QPSK	27.50	27.38
n78	30	60	651332	1@1	DFT_QPSK	26.50	27.16
n78	30	60	651332	1@160	DFT_QPSK	28.00	27.72
n78	30	60	651332	1@1	DFT_QAM16	26.50	26.07
n78	30	60	651332	1@1	DFT_QAM64	25.00	24.55
n78	30	60	651332	1@1	DFT_QAM256	22.50	22.41
n78	30	60	651332	1@1	CP_QPSK	25.50	25.42
n78	30	70	622334	1@1	DFT_BPSK	24.00	23.86
n78	30	70	622334	162@0	DFT_QPSK	24.00	23.87
n78	30	70	622334	81@40	DFT_QPSK	24.00	23.89
n78	30	70	622334	1@1	DFT_QPSK	24.00	23.88
n78	30	70	622334	1@160	DFT_QPSK	24.00	23.87
n78	30	70	622334	1@1	DFT_QAM16	24.00	23.89
n78	30	70	622334	1@1	DFT_QAM64	24.00	23.89
n78	30	70	622334	1@1	DFT_QAM256	24.00	23.88
n78	30	70	622334	1@1	CP_QPSK	24.00	23.89
n78	30	70	636666	1@1	DFT_BPSK	24.50	24.17
n78	30	70	636666	162@0	DFT_QPSK	24.50	24.18
n78	30	70	636666	81@40	DFT_QPSK	24.50	24.18
n78	30	70	636666	1@1	DFT_QPSK	24.50	24.16
n78	30	70	636666	1@160	DFT_QPSK	24.50	24.18
n78	30	70	636666	1@1	DFT_QAM16	24.50	24.19
n78	30	70	636666	1@1	DFT_QAM64	24.50	24.17
n78	30	70	636666	1@1	DFT_QAM256	24.50	24.18

n78	30	70	636666	1@1	CP_QPSK	24.50	24.18
n78	30	70	651000	1@1	DFT_BPSK	24.50	24.41
n78	30	70	651000	162@0	DFT_QPSK	24.50	24.38
n78	30	70	651000	81@40	DFT_QPSK	24.50	24.39
n78	30	70	651000	1@1	DFT_QPSK	24.50	24.39
n78	30	70	651000	1@160	DFT_QPSK	24.50	24.40
n78	30	70	651000	1@1	DFT_QAM16	24.50	24.41
n78	30	70	651000	1@1	DFT_QAM64	24.50	24.41
n78	30	70	651000	1@1	DFT_QAM256	24.50	24.39
n78	30	70	651000	1@1	CP_QPSK	24.50	24.38
n78	30	80	622668	1@1	DFT_BPSK	24.00	23.85
n78	30	80	622668	216@0	DFT_QPSK	26.00	25.86
n78	30	80	622668	108@54	DFT_QPSK	26.50	26.81
n78	30	80	622668	1@1	DFT_QPSK	27.50	27.07
n78	30	80	622668	1@215	DFT_QPSK	26.50	26.41
n78	30	80	622668	1@1	DFT_QAM16	26.50	26.13
n78	30	80	622668	1@1	DFT_QAM64	25.00	24.53
n78	30	80	622668	1@1	DFT_QAM256	23.00	22.51
n78	30	80	622668	1@1	CP_QPSK	26.00	25.63
n78	30	80	636666	1@1	DFT_BPSK	27.50	27.34
n78	30	80	636666	216@0	DFT_QPSK	26.50	26.19
n78	30	80	636666	108@54	DFT_QPSK	27.50	27.24
n78	30	80	636666	1@1	DFT_QPSK	27.50	27.36
n78	30	80	636666	1@215	DFT_QPSK	27.00	26.65
n78	30	80	636666	1@1	DFT_QAM16	27.00	26.53
n78	30	80	636666	1@1	DFT_QAM64	25.50	25.09
n78	30	80	636666	1@1	DFT_QAM256	23.00	22.88
n78	30	80	636666	1@1	CP_QPSK	26.00	25.96
n78	30	80	650666	1@1	DFT_BPSK	27.50	27.13
n78	30	80	650666	216@0	DFT_QPSK	26.50	26.35
n78	30	80	650666	108@54	DFT_QPSK	27.50	27.33
n78	30	80	650666	1@1	DFT_QPSK	27.50	27.26
n78	30	80	650666	1@215	DFT_QPSK	28.00	27.66
n78	30	80	650666	1@1	DFT_QAM16	26.50	26.17
n78	30	80	650666	1@1	DFT_QAM64	25.00	24.78
n78	30	80	650666	1@1	DFT_QAM256	23.00	22.62
n78	30	80	650666	1@1	CP_QPSK	26.00	25.64
n78	30	90	623000	1@1	DFT_BPSK	27.50	27.03
n78	30	90	623000	240@0	DFT_QPSK	26.00	25.83

n78	30	90	623000	120@60	DFT_QPSK	27.00	26.82
n78	30	90	623000	1@1	DFT_QPSK	27.50	27.09
n78	30	90	623000	1@243	DFT_QPSK	26.50	26.43
n78	30	90	623000	1@1	DFT_QAM16	26.50	26.19
n78	30	90	623000	1@1	DFT_QAM64	25.00	24.76
n78	30	90	623000	1@1	DFT_QAM256	24.00	23.65
n78	30	90	623000	1@1	CP_QPSK	26.00	25.64
n78	30	90	636666	1@1	DFT_BPSK	27.50	27.38
n78	30	90	636666	240@0	DFT_QPSK	26.50	26.16
n78	30	90	636666	120@60	DFT_QPSK	27.50	27.27
n78	30	90	636666	1@1	DFT_QPSK	27.50	27.39
n78	30	90	636666	1@243	DFT_QPSK	27.00	26.64
n78	30	90	636666	1@1	DFT_QAM16	27.00	26.53
n78	30	90	636666	1@1	DFT_QAM64	25.50	25.18
n78	30	90	636666	1@1	DFT_QAM256	23.00	22.86
n78	30	90	636666	1@1	CP_QPSK	26.50	26.09
n78	30	90	650332	1@1	DFT_BPSK	27.00	26.97
n78	30	90	650332	240@0	DFT_QPSK	26.50	26.32
n78	30	90	650332	120@60	DFT_QPSK	27.50	27.28
n78	30	90	650332	1@1	DFT_QPSK	27.50	27.08
n78	30	90	650332	1@243	DFT_QPSK	28.00	27.57
n78	30	90	650332	1@1	DFT_QAM16	26.50	26.04
n78	30	90	650332	1@1	DFT_QAM64	25.00	24.65
n78	30	90	650332	1@1	DFT_QAM256	22.50	22.45
n78	30	90	650332	1@1	CP_QPSK	25.50	25.40
n78	30	100	623334	1@1	DFT_BPSK	27.50	27.04
n78	30	100	623334	270@0	DFT_QPSK	26.00	25.85
n78	30	100	623334	135@67	DFT_QPSK	27.00	26.81
n78	30	100	623334	1@1	DFT_QPSK	27.50	27.11
n78	30	100	623334	1@271	DFT_QPSK	27.00	26.72
n78	30	100	623334	1@1	DFT_QAM16	26.50	26.18
n78	30	100	623334	1@1	DFT_QAM64	25.00	24.73
n78	30	100	623334	1@1	DFT_QAM256	23.00	22.52
n78	30	100	623334	1@1	CP_QPSK	26.00	25.67
n78	30	100	636666	1@1	DFT_BPSK	27.50	27.40
n78	30	100	636666	270@0	DFT_QPSK	26.50	26.18
n78	30	100	636666	135@67	DFT_QPSK	27.50	27.26
n78	30	100	636666	1@1	DFT_QPSK	27.50	27.44
n78	30	100	636666	1@271	DFT_QPSK	27.00	26.68

n78	30	100	636666	1@1	DFT_QAM16	27.00	26.59
n78	30	100	636666	1@1	DFT_QAM64	25.50	25.22
n78	30	100	636666	1@1	DFT_QAM256	23.00	22.95
n78	30	100	636666	1@1	CP_QPSK	26.50	26.09
n78	30	100	650000	1@1	DFT_BPSK	27.00	26.80
n78	30	100	650000	270@0	DFT_QPSK	26.50	26.33
n78	30	100	650000	135@67	DFT_QPSK	27.50	27.29
n78	30	100	650000	1@1	DFT_QPSK	27.00	26.89
n78	30	100	650000	1@271	DFT_QPSK	28.00	27.63
n78	30	100	650000	1@1	DFT_QAM16	26.00	25.85
n78	30	100	650000	1@1	DFT_QAM64	24.50	24.48
n78	30	100	650000	1@1	DFT_QAM256	23.50	22.29
n78	30	100	650000	1@1	CP_QPSK	25.50	25.30

7.5. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	18.00	17.69
	6	2437	18.00	17.96
	11	2462	18.00	17.27
802.11g	1	2412	14.50	14.18
	6	2437	14.50	13.98
	11	2462	14.50	13.40
802.11n HT20	1	2412	13.00	12.91
	6	2437	13.00	12.76
	11	2462	13.00	12.22
802.11n HT40	3	2422	14.00	13.54
	6	2437	14.00	13.02
	9	2452	14.00	12.58

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	11.00	10.78
	40	5200	11.00	10.83
	48	5240	11.00	10.19
802.11n HT20	36	5180	11.50	11.09
	40	5200	11.50	10.74

	48	5240	11.50	9.69
802.11n HT40	38	5190	11.00	10.81
	46	5230	11.00	9.55
802.11ac VHT20	36	5180	11.00	9.11
	40	5200	11.00	10.71
	48	5240	11.00	10.72
802.11ac VHT40	38	5190	11.00	10.09
	46	5230	11.00	10.54
802.11ac VHT80	42	5210	9.50	9.42

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	52	5260	10.00	9.65
	56	5280	10.00	9.66
	64	5320	10.00	9.96
802.11n HT20	52	5260	10.50	9.19
	56	5280	10.50	9.55
	64	5320	10.50	10.30
802.11n HT40	54	5270	10.50	9.51
	62	5310	10.50	10.01
802.11ac VHT20	52	5260	9.50	7.74
	56	5280	9.50	9.14
	64	5320	9.50	9.19
802.11ac VHT40	54	5270	10.00	9.87
	62	5310	10.00	9.58
802.11ac VHT80	58	5290	10.00	9.84

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	100	5500	12.00	10.17
	120	5600	12.00	11.69
	140	5700	12.00	10.36
802.11n	100	5500	11.50	10.60
	120	5600	11.50	11.10
	140	5700	11.50	9.67
802.11n	102	5510	12.00	10.17

	118	5590	12.00	11.71
	134	5670	12.00	10.17
802.11ac (VHT20)	100	5500	11.50	10.78
	120	5600	11.50	11.05
	140	5700	11.50	10.52
802.11ac (VHT40)	102	5510	12.00	11.52
	118	5590	12.00	10.21
	134	5670	12.00	10.68
802.11ac (VHT80)	106	5530	12.00	11.66
	122	5610	12.00	10.73

NOTE: Power measurement results of WLAN 5.6G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	10.50	10.48
	157	5785	10.50	9.14
	165	5825	10.50	9.99
802.11n HT20	149	5745	10.50	10.44
	157	5785	10.50	9.40
	165	5825	10.50	10.37
802.11n HT40	151	5755	10.50	10.36
	159	5795	10.50	9.38
802.11ac VHT20	149	5745	10.50	10.05
	157	5785	10.50	9.97
	165	5825	10.50	9.42
802.11ac VHT40	151	5755	10.50	10.28
	159	5795	10.50	10.32
802.11ac VHT80	155	5775	9.50	9.17

NOTE: Power measurement results of WLAN 5.8G.

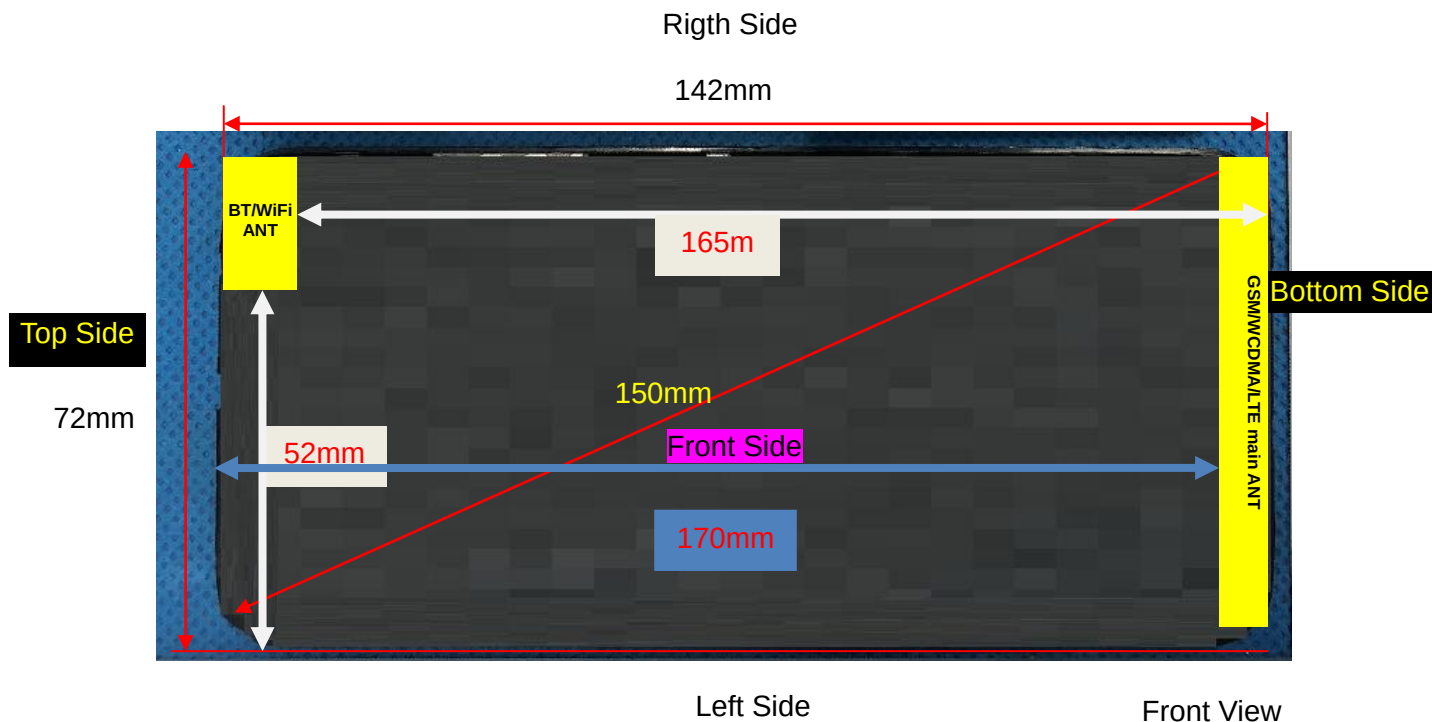
BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
	1M	7	6.43	6.84	6.90
	2M	8	6.40	6.20	7.28
	3M	8	6.63	6.10	7.18

BLE	Output Power (dBm)			
	Data Rates	Tune-up	Channe	

		(dBm)	0CH	19CH	39CH
	1M	-5.00	-5.50	-5.10	-6.51
	2M	-5.00	-5.25	-5.16	-6.26

NOTE: Power measurement results of Bluetooth.

8. Antenna Location



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

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

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

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

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

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
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Bluetooth	8.00	8.913	5	2.480	1.987	3	Yes
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NOTE: Standalone SAR test exclusion for Bluetooth.

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

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

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

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	8.00	6.31	5	2.48	7.5	0.265
Bluetooth	Body	8.00	6.31	10	2.48	7.5	0.132
Bluetooth	Hotspot	8.00	6.31	10	2.48	7.5	0.132
Bluetooth	Extremity	8.00	6.31	5	2.48	18.75	0.106

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)	0.076	0.048	0.43	28.72	29.00	0.081	2024/11/26	#1
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.039	0.025	1.85	28.72	29.00	0.042	2024/11/26	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.065	0.040	3.49	28.72	29.00	0.069	2024/11/26	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.030	0.018	-3.47	28.72	29.00	0.032	2024/11/26	

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)	0.185	0.105	0.86	28.72	29.00	0.197	2024/11/26	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.352	0.203	-0.48	28.72	29.00	0.375	2024/11/26	#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)	0.185	0.105	0.86	28.72	29.00	0.197	2024/11/26	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.352	0.203	-0.48	28.72	29.00	0.375	2024/11/26	#2
Left Side	189/836.4	GPRS(GMSK 4TS)	0.140	0.080	-2.92	28.72	29.00	0.149	2024/11/26	
Right Side	189/836.4	GPRS(GMSK 4TS)	0.117	0.066	3.92	28.72	29.00	0.125	2024/11/26	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.095	0.052	0.47	28.72	29.00	0.101	2024/11/26	

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)	0.123	0.077	2.41	26.48	27.00	0.139	2024/11/24	#3
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.064	0.040	-1.53	26.48	27.00	0.072	2024/11/24	
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.109	0.066	2.75	26.48	27.00	0.123	2024/11/24	
Right Tilt	661/1880	GPRS(GMSK	0.049	0.029	-0.32	26.48	27.00	0.055	2024/11/24	

15 Degree		4TS)								
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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)	0.215	0.125	0.91	26.48	27.00	0.242	2024/11/24	
Back Side	661/1880	GPRS(GMSK 4TS)	0.414	0.243	-2.26	26.48	27.00	0.467	2024/11/24	#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)	0.215	0.125	0.91	26.48	27.00	0.242	2024/11/24	
Back Side	661/1880	GPRS(GMSK 4TS)	0.414	0.243	-2.26	26.48	27.00	0.467	2024/11/24	#4
Left Side	661/1880	GPRS(GMSK 4TS)	0.161	0.095	-0.56	26.48	27.00	0.181	2024/11/24	
Right Side	661/1880	GPRS(GMSK 4TS)	0.138	0.078	-3.22	26.48	27.00	0.156	2024/11/24	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.113	0.064	-1.74	26.48	27.00	0.127	2024/11/24	

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	0.113	0.070	1.72	22.52	23.00	0.126	2024/11/24	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.063	0.037	-2.69	22.52	23.00	0.070	2024/11/24	
Right	9400/1880	RMC12.2K	0.101	0.061	-1.25	22.52	23.00	0.113	2024/11/24	

Cheek										
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.055	0.032	-3.41	22.52	23.00	0.061	2024/11/24	

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	0.266	0.164	2.08	22.52	23.00	0.297	2024/11/24	
Back Side	9400/1880	RMC12.2K	0.526	0.306	0.24	22.52	23.00	0.587	2024/11/24	#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%)	Conducte d power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.266	0.164	2.08	22.52	23.00	0.297	2024/11/24	
Back Side	9400/1880	RMC12.2K	0.526	0.306	0.24	22.52	23.00	0.587	2024/11/24	#6
Left Side	9400/1880	RMC12.2K	0.191	0.113	-0.06	22.52	23.00	0.213	2024/11/24	
Right Side	9400/1880	RMC12.2K	0.160	0.094	-0.15	22.52	23.00	0.179	2024/11/24	
Bottom Side	9400/1880	RMC12.2K	0.142	0.091	1.24	22.52	23.00	0.159	2024/11/24	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq	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	1413/1732.6	RMC12.2K	0.066	0.044	-0.96	22.09	22.50	0.073	2024/11/21	#7
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.040	0.026	1.78	22.09	22.50	0.044	2024/11/21	
Right Cheek	1413/1732.6	RMC12.2K	0.056	0.036	-2.13	22.09	22.50	0.062	2024/11/21	
Right Tilt	1413/1732.6	RMC12.2K	0.027	0.018	-3.31	22.09	22.50	0.030	2024/11/21	

15 Degree

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.190	0.113	-1.67	22.09	22.50	0.209	2024/11/21	
Back Side	1413/1732.6	RMC12.2K	0.330	0.201	0.85	22.09	22.50	0.363	2024/11/21	#8

NOTE: Body-Worn SAR test results of WCDMA 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						
Front Side	1413/1732.6	RMC12.2K	0.190	0.113	-1.67	22.09	22.50	0.209	2024/11/21	
Back Side	1413/1732.6	RMC12.2K	0.330	0.201	0.85	22.09	22.50	0.363	2024/11/21	#8
Left Side	1413/1732.6	RMC12.2K	0.119	0.070	-2.69	22.09	22.50	0.131	2024/11/21	
Right Side	1413/1732.6	RMC12.2K	0.102	0.060	3.68	22.09	22.50	0.112	2024/11/21	
Bottom Side	1413/1732.6	RMC12.2K	0.095	0.057	-3.73	22.09	22.50	0.104	2024/11/21	

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq	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	0.130	0.106	-0.55	22.38	22.50	0.134	2024/11/26	#9
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.070	0.055	-2.41	22.38	22.50	0.072	2024/11/26	
Right	4182/836.4	RMC12.2K	0.121	0.094	2.08	22.38	22.50	0.124	2024/11/26	

Cheek										
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.056	0.044	-2.83	22.38	22.50	0.058	2024/11/26	

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	0.160	0.099	-3.60	22.38	22.50	0.164	2024/11/26	
Back Side	4182/836.4	RMC12.2K	0.275	0.172	1.07	22.38	22.50	0.283	2024/11/26	#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	0.160	0.099	-3.60	22.38	22.50	0.164	2024/11/26	
Back Side	4182/836.4	RMC12.2K	0.275	0.172	1.07	22.38	22.50	0.283	2024/11/26	#10
Left Side	4182/836.4	RMC12.2K	0.105	0.064	-1.63	22.38	22.50	0.108	2024/11/26	
Right Side	4182/836.4	RMC12.2K	0.087	0.052	1.23	22.38	22.50	0.089	2024/11/26	
Bottom Side	4182/836.4	RMC12.2K	0.080	0.049	2.73	22.38	22.50	0.082	2024/11/26	

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)	0.186	0.113	-1.48	20.70	21.00	0.199	2024/11/24	#21
Left Tilt	18900/1880	20M	0.097	0.056	-1.62	20.70	21.00	0.104	2024/11/24	

15 Degree		QPSK(1,49)								
Right Cheek	18900/1880	20M QPSK(1,49)	0.163	0.099	0.59	20.70	21.00	0.175	2024/11/24	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.086	0.051	-1.65	20.70	21.00	0.092	2024/11/24	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,24)	0.099	0.061	1.48	20.80	21.00	0.104	2024/11/24	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,24)	0.058	0.033	1.54	20.80	21.00	0.061	2024/11/24	
Right Cheek	18900/1880	20M QPSK(50,24)	0.083	0.058	-0.17	20.80	21.00	0.087	2024/11/24	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,24)	0.044	0.028	-0.01	20.80	21.00	0.046	2024/11/24	

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)	0.385	0.218	2.69	20.70	21.00	0.413	2024/11/24	
Back Side	18900/1880	20M QPSK(1,49)	0.721	0.421	-2.98	20.70	21.00	0.773	2024/11/24	#22
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.207	0.114	1.32	20.80	21.00	0.217	2024/11/24	
Back Side	18900/1880	20M QPSK(50,24)	0.389	0.237	2.04	20.80	21.00	0.407	2024/11/24	

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)	0.385	0.218	2.69	20.70	21.00	0.413	2024/11/24	
Back Side	18900/1880	20M QPSK(1,49)	0.721	0.421	-2.98	20.70	21.00	0.773	2024/11/24	#22
Left Side	18900/1880	20M QPSK(1,49)	0.270	0.158	-1.57	20.70	21.00	0.289	2024/11/24	
Right Side	18900/1880	20M QPSK(1,49)	0.228	0.133	2.30	20.70	21.00	0.244	2024/11/24	
Bottom Side	18900/1880	20M QPSK(1,49)	0.188	0.105	0.09	20.70	21.00	0.201	2024/11/24	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.207	0.114	1.32	20.80	21.00	0.217	2024/11/24	
Back Side	18900/1880	20M QPSK(50,24)	0.389	0.237	2.04	20.80	21.00	0.407	2024/11/24	
Left Side	18900/1880	20M QPSK(50,24)	0.138	0.092	-3.62	20.80	21.00	0.145	2024/11/24	
Right Side	18900/1880	20M QPSK(50,24)	0.126	0.077	-3.79	20.80	21.00	0.132	2024/11/24	
Bottom Side	18900/1880	20M QPSK(50,24)	0.110	0.054	0.29	20.80	21.00	0.115	2024/11/24	

NOTE: Hotspot SAR test results of LTE Band 2

Test Position of Extremity 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							
Back Side	18900/1880	20M QPSK(1,49)	1.596	0.833	-1.94	20.70	21.00	0.893	2024/11/24	#47

NOTE: Extremity 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)	0.112	0.072	3.52	19.84	20.50	0.130	2024/11/21	#23
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.065	0.041	-0.19	19.84	20.50	0.076	2024/11/21	
Right Cheek	20175/1732.5	20M QPSK(1,99)	0.099	0.062	-0.99	19.84	20.50	0.115	2024/11/21	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.048	0.031	-0.24	19.84	20.50	0.056	2024/11/21	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,49)	0.063	0.040	-1.08	20.35	20.50	0.065	2024/11/21	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.039	0.022	-2.33	20.35	20.50	0.040	2024/11/21	
Right Cheek	20175/1732.5	20M QPSK(50,49)	0.056	0.031	-0.80	20.35	20.50	0.058	2024/11/21	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.024	0.016	4.19	20.35	20.50	0.025	2024/11/21	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body- Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.210	0.126	-3.64	19.84	20.50	0.244	2024/11/21	

Back Side	20175/1732.5	20M QPSK(1,99)	0.402	0.253	1.26	19.84	20.50	0.468	2024/11/21	#24
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.115	0.068	0.17	20.35	20.50	0.119	2024/11/21	
Back Side	20175/1732.5	20M QPSK(50,49)	0.202	0.145	-0.73	20.35	20.50	0.209	2024/11/21	

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)	0.210	0.126	-3.64	19.84	20.50	0.244	2024/11/21	
Back Side	20175/1732.5	20M QPSK(1,99)	0.402	0.253	1.26	19.84	20.50	0.468	2024/11/21	#24
Left Side	20175/1732.5	20M QPSK(1,99)	0.154	0.096	0.56	19.84	20.50	0.179	2024/11/21	
Right Side	20175/1732.5	20M QPSK(1,99)	0.132	0.081	-3.48	19.84	20.50	0.154	2024/11/21	
Top Side	20175/1732.5	20M QPSK(1,99)	0.108	0.066	-2.93	19.84	20.50	0.126	2024/11/21	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.115	0.068	0.17	20.35	20.50	0.119	2024/11/21	
Back Side	20175/1732.5	20M QPSK(50,49)	0.202	0.145	-0.73	20.35	20.50	0.209	2024/11/21	
Left Side	20175/1732.5	20M QPSK(50,49)	0.091	0.054	0.35	20.35	20.50	0.094	2024/11/21	
Right Side	20175/1732.5	20M QPSK(50,49)	0.068	0.049	-3.08	20.35	20.50	0.070	2024/11/21	
Top Side	20175/1732.5	20M QPSK(50,49)	0.060	0.033	-0.91	20.35	20.50	0.062	2024/11/21	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test	Test channel	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Head	/Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)		
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,0)	0.182	0.145	-2.86	19.93	20.00	0.185	2024/11/26	#25
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.108	0.085	1.90	19.93	20.00	0.110	2024/11/26	
Right Cheek	20525/836.5	10M QPSK(1,0)	0.173	0.136	0.67	19.93	20.00	0.176	2024/11/26	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.094	0.073	0.74	19.93	20.00	0.096	2024/11/26	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,0)	0.100	0.084	-2.16	20.37	20.50	0.103	2024/11/26	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.064	0.048	0.85	20.37	20.50	0.066	2024/11/26	
Right Cheek	20525/836.5	10M QPSK(25,0)	0.098	0.074	1.21	20.37	20.50	0.101	2024/11/26	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.054	0.039	-3.33	20.37	20.50	0.056	2024/11/26	

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(1,0)	0.230	0.142	2.28	19.93	20.00	0.234	2024/11/26	
Back Side	20525/836.5	10M QPSK(1,0)	0.454	0.284	-0.23	19.93	20.00	0.461	2024/11/26	#26
50%RB										

Front Side	20525/836.5	10M QPSK(25,0)	0.126	0.073	1.50	20.37	20.50	0.130	2024/11/26	
Back Side	20525/836.5	10M QPSK(25,0)	0.271	0.166	-2.49	20.37	20.50	0.279	2024/11/26	

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(1,0)	0.150	0.102	0.72	23.47	23.50	0.151	2024/11/26	
Back Side	20525/836.5	10M QPSK(1,0)	0.336	0.194	-0.39	23.47	23.50	0.338	2024/11/26	14#
Left Side	20525/836.5	10M QPSK(1,0)	0.126	0.086	3.98	23.47	23.50	0.127	2024/11/26	
Right Side	20525/836.5	10M QPSK(1,0)	0.160	0.108	-0.93	23.47	23.50	0.161	2024/11/26	
Bottom Side	20525/836.5	10M QPSK(1,0)	0.259	0.142	2.80	23.47	23.50	0.261	2024/11/26	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.126	0.073	1.50	20.37	20.50	0.130	2024/11/26	
Back Side	20525/836.5	10M QPSK(25,0)	0.271	0.166	-2.49	20.37	20.50	0.279	2024/11/26	
Left Side	20525/836.5	10M QPSK(25,0)	0.093	0.055	0.06	20.37	20.50	0.096	2024/11/26	
Right Side	20525/836.5	10M QPSK(25,0)	0.086	0.046	-4.02	20.37	20.50	0.089	2024/11/26	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.070	0.043	-3.31	20.37	20.50	0.072	2024/11/26	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test Position	Test channel /Freq.	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR	Date	Plot
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of Head			1-g	10-g	(±5%)	(dBm)	(dBm)	1g (W/Kg)		
1RB										
Left Cheek	21100/2535	20M QPSK(1,49)	0.590	0.285	-2.96	20.60	21.00	0.647	2024/11/25	#27
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.303	0.145	-3.46	20.60	21.00	0.332	2024/11/25	
Right Cheek	21100/2535	20M QPSK(1,49)	0.538	0.247	-2.08	20.60	21.00	0.590	2024/11/25	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.255	0.118	-2.01	20.60	21.00	0.280	2024/11/25	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.351	0.167	0.98	21.13	21.50	0.382	2024/11/25	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.159	0.074	3.84	21.13	21.50	0.173	2024/11/25	
Right Cheek	21100/2535	20M QPSK(50,24)	0.27	0.132	0.18	21.13	21.50	0.294	2024/11/25	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.15	0.061	0.36	21.13	21.50	0.163	2024/11/25	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-W orn 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	21100/2535	20M QPSK(1,49)	0.162	0.088	1.61	20.60	21.00	0.178	2024/11/25	
Back Side	21100/2535	20M QPSK(1,49)	0.230	0.125	-4.84	20.60	21.00	0.252	2024/11/25	#28
50%RB										
Front	21100/2535	20M OPSK(50,24)	0.081	0.05	-3.64	21.13	21.50	0.088	2024/11/25	

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

NOTE: Hotspot SAR test results of LTE Band 7

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	Date	Plot
			1-g	10-g						

								(W/Kg)		
1RB										
Left Cheek	23095/707.5	10M QPSK(1,0)	0.111	0.094	-0.01	20.05	20.50	0.123	2024/11/27	#29
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.057	0.046	-1.83	20.05	20.50	0.063	2024/11/27	
Right Cheek	23095/707.5	10M QPSK(1,0)	0.098	0.079	-2.76	20.05	20.50	0.109	2024/11/27	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.045	0.037	2.64	20.05	20.50	0.050	2024/11/27	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,24)	0.065	0.053	-3.14	20.38	21.00	0.075	2024/11/27	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.032	0.026	-3.47	20.38	21.00	0.037	2024/11/27	
Right Cheek	23095/707.5	10M QPSK(25,24)	0.056	0.045	-4.41	20.38	21.00	0.065	2024/11/27	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.026	0.020	3.98	20.38	21.00	0.030	2024/11/27	

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(1,0)	0.150	0.102	-3.84	20.05	20.50	0.166	2024/11/27	
Right Side	23095/707.5	10M QPSK(1,0)	0.256	0.180	-3.63	20.05	20.50	0.284	2024/11/27	16#
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.081	0.053	-2.60	20.38	21.00	0.093	2024/11/27	
Back Side	23095/707.5	10M QPSK(25,24)	0.152	0.104	1.16	20.38	21.00	0.175	2024/11/27	

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(1,0)	0.150	0.102	-3.84	20.05	20.50	0.166	2024/11/27	
Right Side	23095/707.5	10M QPSK(1,0)	0.256	0.180	-3.63	20.05	20.50	0.284	2024/11/27	#30
Left Side	23095/707.5	10M QPSK(1,0)	0.098	0.067	-0.71	20.05	20.50	0.109	2024/11/27	
Back Side	23095/707.5	10M QPSK(1,0)	0.078	0.054	1.87	20.05	20.50	0.087	2024/11/27	
Bottom Side	23095/707.5	10M QPSK(1,0)	0.070	0.047	-1.04	20.05	20.50	0.078	2024/11/27	
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.081	0.053	-2.60	20.38	21.00	0.093	2024/11/27	
Back Side	23095/707.5	10M QPSK(25,24)	0.152	0.104	1.16	20.38	21.00	0.175	2024/11/27	
Left Side	23095/707.5	10M QPSK(25,24)	0.058	0.038	3.82	20.38	21.00	0.067	2024/11/27	
Right Side	23095/707.5	10M QPSK(25,24)	0.045	0.028	-4.48	20.38	21.00	0.052	2024/11/27	
Bottom Side	23095/707.5	10M QPSK(25,24)	0.041	0.025	-4.16	20.38	21.00	0.047	2024/11/27	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 13

Test Position of Head	Test channel /Freq.	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	23230/782	10M QPSK(1,0)	0.197	0.155	-0.13	22.94	23.00	0.200	2024/11/27	#31
Left Tilt	23230/782	10M	0.115	0.090	3.70	22.94	23.00	0.117	2024/11/27	

15 Degree		QPSK(1,0)								
Right Cheek	23230/782	10M QPSK(1,0)	0.177	0.138	-3.48	22.94	23.00	0.179	2024/11/27	
Right Tilt 15 Degree	23230/782	10M QPSK(1,0)	0.084	0.065	0.22	22.94	23.00	0.085	2024/11/27	
50%RB										
Left Cheek	23230/782	10M QPSK(25,0)	0.108	0.078	3.01	21.87	22.00	0.111	2024/11/27	
Left Tilt 15 Degree	23230/782	10M QPSK(25,0)	0.063	0.045	1.24	21.87	22.00	0.065	2024/11/27	
Right Cheek	23230/782	10M QPSK(25,0)	0.103	0.074	-3.30	21.87	22.00	0.106	2024/11/27	
Right Tilt 15 Degree	23230/782	10M QPSK(25,0)	0.045	0.036	-3.44	21.87	22.00	0.046	2024/11/27	

NOTE: Head SAR test results of LTE Band 13

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	23230/782	10M QPSK(1,0)	0.150	0.088	1.79	22.94	23.00	0.152	2024/11/27	
Right Side	23230/782	10M QPSK(1,0)	0.292	0.176	-1.01	22.94	23.00	0.296	2024/11/27	#32
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.075	0.045	1.65	21.87	22.00	0.077	2024/11/27	
Back Side	23230/782	10M QPSK(25,0)	0.167	0.099	-4.96	21.87	22.00	0.172	2024/11/27	

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

Test Position of Hotspot	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						

with 10mm										
1RB										
Front Side	23230/782	10M QPSK(1,0)	0.150	0.088	1.79	22.94	23.00	0.152	2024/11/27	
Back Side	23230/782	10M QPSK(1,0)	0.292	0.176	-1.01	22.94	23.00	0.296	2024/11/27	#32
Left Side	23230/782	10M QPSK(1,0)	0.119	0.068	-1.39	22.94	23.00	0.121	2024/11/27	
Right Side	23230/782	10M QPSK(1,0)	0.102	0.061	1.80	22.94	23.00	0.103	2024/11/27	
Bottom Side	23230/782	10M QPSK(1,0)	0.080	0.046	-1.79	22.94	23.00	0.081	2024/11/27	
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.075	0.045	1.65	21.87	22.00	0.077	2024/11/27	
Back Side	23230/782	10M QPSK(25,0)	0.167	0.099	-4.96	21.87	22.00	0.172	2024/11/27	
Left Side	23230/782	10M QPSK(25,0)	0.065	0.034	-1.07	21.87	22.00	0.067	2024/11/27	
Right Side	23230/782	10M QPSK(25,0)	0.059	0.033	4.75	21.87	22.00	0.061	2024/11/27	
Bottom Side	23230/782	10M QPSK(25,0)	0.043	0.027	0.74	21.87	22.00	0.044	2024/11/27	

NOTE: Hotspot SAR test results of LTE Band 13

10.1.12. SAR measurement Result of LTE Band 17

Test Position of Head	Test channel /Freq.	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)	0.093	0.079	0.55	19.96	20.00	0.094	2024/11/27	#33
Left Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.047	0.040	-3.18	19.96	20.00	0.047	2024/11/27	
Right Cheek	23790/710	10M QPSK(1,0)	0.087	0.071	0.39	19.96	20.00	0.088	2024/11/27	

Right Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.043	0.035	-3.15	19.96	20.00	0.043	2024/11/27	
50%RB										
Left Cheek	23790/710	10M QPSK(25,12)	0.047	0.041	-4.35	20.34	20.50	0.049	2024/11/27	
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.028	0.022	-1.84	20.34	20.50	0.029	2024/11/27	
Right Cheek	23790/710	10M QPSK(25,12)	0.047	0.039	0.88	20.34	20.50	0.049	2024/11/27	
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.025	0.018	4.32	20.34	20.50	0.026	2024/11/27	

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)	0.160	0.130	0.52	19.96	20.00	0.161	2024/11/27	
Back Side	23790/710	10M QPSK(1,0)	0.271	0.222	-0.80	19.96	20.00	0.274	2024/11/27	#34
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.083	0.067	-1.02	20.34	20.50	0.086	2024/11/27	
Back Side	23790/710	10M QPSK(25,12)	0.161	0.132	-4.82	20.34	20.50	0.167	2024/11/27	

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	23790/710	10M	0.160	0.130	0.52	19.96	20.00	0.161	2024/11/27	

Side		QPSK(1,0)								
Back Side	23790/710	10M QPSK(1,0)	0.271	0.222	-0.80	19.96	20.00	0.274	2024/11/27	#34
Left Side	23790/710	10M QPSK(1,0)	0.105	0.085	1.54	19.96	20.00	0.106	2024/11/27	
Right Side	23790/710	10M QPSK(1,0)	0.084	0.065	-1.02	19.96	20.00	0.085	2024/11/27	
Bottom Side	23790/710	10M QPSK(1,0)	0.080	0.064	2.28	19.96	20.00	0.081	2024/11/27	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.083	0.067	-1.02	20.34	20.50	0.086	2024/11/27	
Back Side	23790/710	10M QPSK(25,12)	0.161	0.132	-4.82	20.34	20.50	0.167	2024/11/27	
Left Side	23790/710	10M QPSK(25,12)	0.053	0.049	1.29	20.34	20.50	0.055	2024/11/27	
Right Side	23790/710	10M QPSK(25,12)	0.046	0.034	3.65	20.34	20.50	0.048	2024/11/27	
Bottom Side	23790/710	10M QPSK(25,12)	0.042	0.033	3.77	20.34	20.50	0.044	2024/11/27	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.13. SAR measurement Result of LTE Band 19

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	24075/837.5	15M QPSK(1,24)	0.184	0.148	1.97	23.64	24.00	0.200	2024/11/26	#35
Left Tilt 15 Degree	24075/837.5	15M QPSK(1,24)	0.095	0.073	1.28	23.64	24.00	0.103	2024/11/26	
Right Cheek	24075/837.5	15M QPSK(1,24)	0.174	0.14	-0.03	23.64	24.00	0.189	2024/11/26	
Right Tilt 15 Degree	24075/837.5	15M QPSK(1,24)	0.086	0.068	-1.12	23.64	24.00	0.093	2024/11/26	
50%RB										
Left	24075/837.5	15M	0.093	0.081	2.27	23.74	24.00	0.099	2024/11/26	

Cheek		QPSK(36,0)								
Left Tilt 15 Degree	24075/837.5	15M QPSK(36,0)	0.048	0.042	4.9	23.74	24.00	0.051	2024/11/26	
Right Cheek	24075/837.5	15M QPSK(36,0)	0.096	0.072	0.48	23.74	24.00	0.102	2024/11/26	
Right Tilt 15 Degree	24075/837.5	15M QPSK(36,0)	0.05	0.036	3.96	23.74	24.00	0.053	2024/11/26	

NOTE: Head SAR test results of LTE Band 19

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	24075/837.5	15M QPSK(1,24)	0.252	0.155	2.13	23.64	24.00	0.274	2024/11/26	
Back Side	24075/837.5	15M QPSK(1,24)	0.408	0.251	-0.44	23.64	24.00	0.443	2024/11/26	#36
50%RB										
Front Side	24075/837.5	15M QPSK(36,0)	0.135	0.082	-3.36	23.74	24.00	0.143	2024/11/26	
Back Side	24075/837.5	15M QPSK(36,0)	0.211	0.149	-4.67	23.74	24.00	0.224	2024/11/26	

NOTE: Body-Worn SAR test results of LTE Band 19

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	24075/837.5	15M QPSK(1,24)	0.252	0.155	2.13	23.64	24.00	0.274	2024/11/26	
Back Side	24075/837.5	15M QPSK(1,24)	0.408	0.251	-0.44	23.64	24.00	0.443	2024/11/26	#36
Left Side	24075/837.5	15M QPSK(1,24)	0.123	0.072	2.43	23.64	24.00	0.134	2024/11/26	

Right Side	24075/837.5	15M QPSK(1,24)	0.135	0.083	-1.49	23.64	24.00	0.147	2024/11/26	
Bottom Side	24075/837.5	15M QPSK(1,24)	0.210	0.125	-2.82	23.64	24.00	0.228	2024/11/26	
50%RB										
Front Side	24075/837.5	15M QPSK(36,0)	0.135	0.082	-3.36	23.74	24.00	0.143	2024/11/26	
Back Side	24075/837.5	15M QPSK(36,0)	0.211	0.149	-4.67	23.74	24.00	0.224	2024/11/26	
Left Side	24075/837.5	15M QPSK(36,0)	0.071	0.043	-2.1	23.74	24.00	0.075	2024/11/26	
Right Side	24075/837.5	15M QPSK(36,0)	0.079	0.045	0.91	23.74	24.00	0.084	2024/11/26	
Bottom Side	24075/837.5	15M QPSK(36,0)	0.109	0.07	-3.27	23.74	24.00	0.116	2024/11/26	

NOTE: Hotspot SAR test results of LTE Band 19

10.1.14. SAR measurement Result of LTE Band 25

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	26365/1882.5	20M QPSK(1,49)	0.180	0.114	4.25	20.19	21.00	0.217	2024/11/24	#37
Left Tilt 15 Degree	26365/1882.5	20M QPSK(1,49)	0.102	0.062	3.75	20.19	21.00	0.123	2024/11/24	
Right Cheek	26365/1882.5	20M QPSK(1,49)	0.158	0.1	3.17	20.19	21.00	0.190	2024/11/24	
Right Tilt 15 Degree	26365/1882.5	20M QPSK(1,49)	0.086	0.053	0.09	20.19	21.00	0.104	2024/11/24	
50%RB										
Left Cheek	26365/1882.5	20M QPSK(25,0)	0.093	0.059	-1.59	20.67	21.00	0.100	2024/11/24	
Left Tilt 15 Degree	26365/1882.5	20M QPSK(25,0)	0.058	0.033	0.65	20.67	21.00	0.063	2024/11/24	
Right	26365/1882.5	20M	0.091	0.052	-4.73	20.67	21.00	0.098	2024/11/24	

Cheek		QPSK(25,0)								
Right Tilt 15 Degree	26365/1882.5	20M QPSK(25,0)	0.048	0.03	0.97	20.67	21.00	0.052	2024/11/24	

NOTE: Head SAR test results of LTE Band 25

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	26365/1882.5	20M QPSK(1,49)	0.480	0.271	-0.61	20.19	21.00	0.578	2024/11/24	
Back Side	26365/1882.5	20M QPSK(1,49)	0.772	0.445	3.95	20.19	21.00	0.930	2024/11/24	#38
50%RB										
Front Side	26365/1882.5	20M QPSK(25,0)	0.26	0.15	-3.2	20.67	21.00	0.281	2024/11/24	
Back Side	26365/1882.5	20M QPSK(25,0)	0.39	0.238	-4.25	20.67	21.00	0.421	2024/11/24	

NOTE: Body-Worn SAR test results of LTE Band 25

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	26365/1882.5	20M QPSK(1,49)	0.480	0.271	-0.61	20.19	21.00	0.578	2024/11/24	
Back Side	26365/1882.5	20M QPSK(1,49)	0.772	0.445	3.95	20.19	21.00	0.930	2024/11/24	#38
Left Side	26365/1882.5	20M QPSK(1,49)	0.237	0.137	-1.87	20.19	21.00	0.286	2024/11/24	
Right Side	26365/1882.5	20M QPSK(1,49)	0.246	0.139	-2.15	20.19	21.00	0.296	2024/11/24	
Bottom Side	26365/1882.5	20M QPSK(1,49)	0.405	0.224	-1.85	20.19	21.00	0.488	2024/11/24	
Back	26140/1860	20M	0.754	0.418	-2.54	20.10	0.00	0.007	2024/11/24	

Side		QPSK(1,49)								
Back Side	26590/1905	20M QPSK(1,49)	0.741	0.402	-2.84	20.03	21.00	0.926	2024/11/24	
BackSide Repeated	26365/1882.5	20M QPSK(1,49)	0.768	0.439	3.54	20.19	21.00	0.925	2024/11/24	
50%RB										
Front Side	26365/1882.5	20M QPSK(25,0)	0.26	0.15	-3.2	20.67	21.00	0.281	2024/11/24	
Back Side	26365/1882.5	20M QPSK(25,0)	0.39	0.238	-4.25	20.67	21.00	0.421	2024/11/24	
Left Side	26365/1882.5	20M QPSK(25,0)	0.124	0.076	-3.22	20.67	21.00	0.134	2024/11/24	
Right Side	26365/1882.5	20M QPSK(25,0)	0.127	0.072	3.32	20.67	21.00	0.137	2024/11/24	
Bottom Side	26365/1882.5	20M QPSK(25,0)	0.23	0.128	-4.32	20.67	21.00	0.248	2024/11/24	

NOTE: Hotspot SAR test results of LTE Band 25

10.1.15. SAR measurement Result of LTE Band 38

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	38000/2595	20M QPSK(1,0)	0.600	0.273	1.80	25.86	26.00	0.620	2024/11/25	#39
Left Tilt 15 Degree	38000/2595	20M QPSK(1,0)	0.328	0.143	1.94	25.86	26.00	0.339	2024/11/25	
Right Cheek	38000/2595	20M QPSK(1,0)	0.515	0.23	-1.78	25.86	26.00	0.532	2024/11/25	
Right Tilt 15 Degree	38000/2595	20M QPSK(1,0)	0.281	0.125	-1.5	25.86	26.00	0.290	2024/11/25	
50%RB										
Left Cheek	38000/2595	20M QPSK(50,0)	0.327	0.146	-0.04	24.88	25.00	0.336	2024/11/25	
Left Tilt 15 Degree	38000/2595	20M QPSK(50,0)	0.188	0.079	1.49	24.88	25.00	0.193	2024/11/25	

Right Cheek	38000/2595	20M QPSK(50,0)	0.292	0.122	0.7	24.88	25.00	0.300	2024/11/25	
Right Tilt 15 Degree	38000/2595	20M QPSK(50,0)	0.149	0.063	-4.7	24.88	25.00	0.153	2024/11/25	

NOTE: Head SAR test results of LTE Band 38

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	38000/2595	20M QPSK(1,0)	0.276	0.140	3.59	25.86	26.00	0.285	2024/11/25	
Back Side	38000/2595	20M QPSK(1,0)	0.430	0.218	0.40	25.86	26.00	0.444	2024/11/25	#40
50%RB										
Front Side	38000/2595	20M QPSK(50,0)	0.147	0.079	-0.82	24.88	25.00	0.151	2024/11/25	
Back Side	38000/2595	20M QPSK(50,0)	0.246	0.113	-0.77	24.88	25.00	0.253	2024/11/25	

NOTE: Body-Worn SAR test results of LTE Band 38

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	38000/2595	20M QPSK(1,0)	0.276	0.140	3.59	25.86	26.00	0.285	2024/11/25	
Back Side	38000/2595	20M QPSK(1,0)	0.430	0.218	0.40	25.86	26.00	0.444	2024/11/25	#40
Left Side	38000/2595	20M QPSK(1,0)	0.129	0.064	-2.05	25.86	26.00	0.133	2024/11/25	
Right Side	38000/2595	20M QPSK(1,0)	0.135	0.067	1.58	25.86	26.00	0.139	2024/11/25	
Bottom Side	38000/2595	20M QPSK(1,0)	0.240	0.117	-3.51	25.86	26.00	0.248	2024/11/25	

50%RB										
Front Side	38000/2595	20M QPSK(50,0)	0.147	0.079	-0.82	24.88	25.00	0.151	2024/11/25	
Back Side	38000/2595	20M QPSK(50,0)	0.246	0.113	-0.77	24.88	25.00	0.253	2024/11/25	
Left Side	38000/2595	20M QPSK(50,0)	0.077	0.032	-3.61	24.88	25.00	0.079	2024/11/25	
Right Side	38000/2595	20M QPSK(50,0)	0.073	0.039	-2.83	24.88	25.00	0.075	2024/11/25	
Bottom Side	38000/2595	20M QPSK(50,0)	0.134	0.067	0.41	24.88	25.00	0.138	2024/11/25	

NOTE: Hotspot SAR test results of LTE Band 38

10.1.16. 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(1,0)	0.616	0.281	3.28	27.55	28.00	0.683	2024/11/25	#41
Left Tilt 15 Degree	40620/2593	20M QPSK(1,0)	0.35	0.153	-3.87	27.55	28.00	0.388	2024/11/25	
Right Cheek	40620/2593	20M QPSK(1,0)	0.529	0.234	0.93	27.55	28.00	0.587	2024/11/25	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,0)	0.263	0.116	-2.21	27.55	28.00	0.292	2024/11/25	
50%RB										
Left Cheek	40620/2593	20M QPSK(50,0)	0.325	0.159	1.1	26.54	27.00	0.361	2024/11/25	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.189	0.087	0.11	26.54	27.00	0.210	2024/11/25	
Right Cheek	40620/2593	20M QPSK(50,0)	0.305	0.139	0.51	26.54	27.00	0.339	2024/11/25	
Right Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.132	0.06	4.29	26.54	27.00	0.147	2024/11/25	

NOTE: Head SAR test results of LTE Band 41

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	40620/2593	20M QPSK(1,0)	0.220	0.105	-1.55	27.55	28.00	0.244	2024/11/25	
Back Side	40620/2593	20M QPSK(1,0)	0.371	0.185	1.38	27.55	28.00	0.412	2024/11/25	#42
50%RB										

Front Side	40620/2593	20M QPSK(50,0)	0.127	0.058	-3.61	26.54	27.00	0.141	2024/11/25	
Back Side	40620/2593	20M QPSK(50,0)	0.216	0.1	3.53	26.54	27.00	0.240	2024/11/25	

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

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	40620/2593	20M QPSK(1,0)	0.220	0.105	-1.55	27.55	28.00	0.244	2024/11/25	
Back Side	40620/2593	20M QPSK(1,0)	0.371	0.185	1.38	27.55	28.00	0.412	2024/11/25	#42
Left Side	40620/2593	20M QPSK(1,0)	0.084	0.040	3.39	27.55	28.00	0.093	2024/11/25	
Right Side	40620/2593	20M QPSK(1,0)	0.336	0.166	-3.2	27.55	28.00	0.373	2024/11/25	
Bottom Side	40620/2593	20M QPSK(1,0)	0.210	0.105	-1.99	27.55	28.00	0.233	2024/11/25	
50%RB										
Front Side	40620/2593	20M QPSK(50,0)	0.127	0.058	-3.61	26.54	27.00	0.141	2024/11/25	
Back Side	40620/2593	20M QPSK(50,0)	0.216	0.1	3.53	26.54	27.00	0.240	2024/11/25	
Left Side	40620/2593	20M QPSK(50,0)	0.044	0.021	4.36	26.54	27.00	0.049	2024/11/25	
Right Side	40620/2593	20M QPSK(50,0)	0.191	0.087	-4.56	26.54	27.00	0.212	2024/11/25	
Bottom Side	40620/2593	20M QPSK(50,0)	0.109	0.063	1.53	26.54	27.00	0.121	2024/11/25	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.17. SAR measurement Result of NR 78

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	Date	Plot
			1-g	10-g						

								(W/Kg)		
1RB										
Left Cheek	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.383	0.135	0.05	27.44	27.50	0.388	2024/11/28	#43
Left Tilt 15 Degree	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.227	0.076	-0.79	27.44	27.50	0.230	2024/11/28	
Right Cheek	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.328	0.113	-3.11	27.44	27.50	0.333	2024/11/28	
Right Tilt 15 Degree	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.163	0.057	-0.9	27.44	27.50	0.165	2024/11/28	
50%RB										
Left Cheek	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.217	0.075	1.89	27.26	27.50	0.229	2024/11/28	
Left Tilt 15 Degree	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.134	0.042	-0.68	27.26	27.50	0.142	2024/11/28	
Right Cheek	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.187	0.058	-1.53	27.26	27.50	0.198	2024/11/28	
Right Tilt 15 Degree	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.083	0.031	4.2	27.26	27.50	0.088	2024/11/28	

NOTE: Head SAR test results of NR n78

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	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.306	0.127	3.48	27.44	27.50	0.310	2024/11/28	
Back Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.488	0.214	-0.12	27.44	27.50	0.495	2024/11/28	#44

50%RB										
Front Side	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.177	0.067	-1.01	27.26	27.50	0.187	2024/11/28	
Back Side	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.287	0.128	-0.49	27.26	27.50	0.303	2024/11/28	

NOTE: Body-Worn SAR test results of NR n78

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.306	0.127	3.48	27.44	27.50	0.310	2024/11/28	
Back Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.488	0.214	-0.12	27.44	27.50	0.495	2024/11/28	#44
Left Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.147	0.064	-1.71	27.44	27.50	0.149	2024/11/28	
Right Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.147	0.064	0.98	27.44	27.50	0.149	2024/11/28	
Bottom Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.260	0.109	0.6	27.44	27.50	0.264	2024/11/28	
50%RB										
Front Side	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.177	0.067	-1.01	27.26	27.50	0.187	2024/11/28	
Back Side	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.287	0.128	-0.49	27.26	27.50	0.303	2024/11/28	
Left Side	636666/3549.99	30k, DFT QPSK 100M	0.081	0.032	3.27	27.26	27.50	0.086	2024/11/28	

		Inner_Full								
Right Side	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.076	0.033	1.68	27.26	27.50	0.080	2024/11/28	
Bottom Side	636666/3549.99	30k, DFT QPSK 100M Inner_Full	0.152	0.058	-1.22	27.26	27.50	0.161	2024/11/28	

NOTE: Hotspot SAR test results of NR n78

Test Position of Extremity with 10mm	Test channel /Freq.	Test Mode	SAR Value		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
1RB										
Back Side	636666/3549.99	30k, DFT QPSK 100M Inne_1RB_Left	0.966	0.415	3.30	27.44	27.50	0.421	2024/11/28	#46

NOTE: Extremity SAR test results of NR n78

10.1.18. SAR measurement Result of WLAN2.4G

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	0.109	0.056	-0.37	17.96	18.00	0.110	2024/11/18	#19
Left Tilt 15 Degree	6/2437	802.11b	0.056	0.028	-2.32	17.96	18.00	0.057	2024/11/18	
Right Cheek	6/2437	802.11b	0.099	0.050	0.07	17.96	18.00	0.100	2024/11/18	
Right Tilt 15 Degree	6/2437	802.11b	0.054	0.027	3.08	17.96	18.00	0.054	2024/11/18	

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	0.120	0.059	3.30	17.96	18.00	0.121	2024/11/18	
Back Side	6/2437	802.11b	0.158	0.081	3.60	17.96	18.00	0.159	2024/11/18	#20

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	0.120	0.059	3.30	17.96	18.00	0.121	2024/11/18	
Back Side	6/2437	802.11b	0.158	0.081	3.60	17.96	18.00	0.159	2024/11/18	#20
Right Side	6/2437	802.11b	0.060	0.030	-1.98	17.96	18.00	0.061	2024/11/18	
Top Side	6/2437	802.11b	0.051	0.025	1.08	17.96	18.00	0.051	2024/11/18	

NOTE: Hotspot SAR test results of WLAN2.4G

Test Position of Extremity 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						
Back Side	0.93	0.159	0.365	0.161	0.13	17.96	18.00	0.162	2024/11/18	#47

NOTE: Extremity SAR test results of NR n78

10.1.19. SAR measurement Result of WLAN5.2G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	36/5180	802.11n HT20	0.678	0.246	2.38	11.09	11.50	0.745	2024/11/19	#11

Left Tilt 15 Degree	36/5180	802.11n HT20	0.379	0.131	-3.02	11.09	11.50	0.417	2024/11/19	
Right Cheek	36/5180	802.11n HT20	0.619	0.213	-1.35	11.09	11.50	0.680	2024/11/19	
Right Tilt 15 Degree	36/5180	802.11n HT20	0.288	0.102	1.11	11.09	11.50	0.317	2024/11/19	

NOTE: Head SAR test results of WLAN5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	36/5180	0.162	0.082	-3.79	11.09	11.50	0.178	2024/11/19	0.162	
Back Side	36/5180	0.078	0.039	-3.98	11.09	11.50	0.086	2024/11/19	0.078	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	36/5180	802.11n HT20	0.162	0.082	-3.79	11.09	11.50	0.178	2024/11/19	
Back Side	36/5180	802.11n HT20	0.078	0.039	-3.98	11.09	11.50	0.086	2024/11/19	
Right Side	36/5180	802.11n HT20	0.075	0.037	0.40	11.09	11.50	0.082	2024/11/19	
Top Side	36/5180	802.11n HT20	0.234	0.120	-1.03	11.09	11.50	0.257	2024/11/19	#16

NOTE: Hotspot SAR test results of WLAN5.2G

10.1.20. SAR measurement Result of WLAN5.3G

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	62/5310	802.11n HT40	0.716	0.257	-1.10	10.01	10.50	0.802	2024/11/06	#12
Left Tilt 15 Degree	62/5310	802.11n HT40	0.384	0.138	-0.01	10.01	10.50	0.430	2024/11/06	
Right Cheek	62/5310	802.11n HT40	0.627	0.221	-1.62	10.01	10.50	0.702	2024/11/06	
Right Tilt 15 Degree	62/5310	802.11n HT40	0.339	0.118	-0.96	10.01	10.50	0.379	2024/11/06	
Left Cheek	54/5270	802.11n HT40	0.632	0.242	-2.36	9.51	10.50	0.794	2024/11/06	
Left Cheek Repeated	62/5310	802.11n HT40	0.706	0.246	-1.32	10.01	10.50	0.790	2024/11/06	

NOTE: Head SAR test results of WLAN5.3G

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	62/5310	802.11n HT40	0.168	0.079	1.52	10.01	10.50	0.188	2024/11/06	
Back Side	62/5310	802.11n HT40	0.084	0.042	-3.10	10.01	10.50	0.094	2024/11/06	

NOTE: Body-worn SAR test results of WLAN5.3G

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	62/5310	802.11n HT40	0.168	0.079	1.52	10.01	10.50	0.188	2024/11/06	
Back Side	62/5310	802.11n HT40	0.084	0.042	-3.10	10.01	10.50	0.094	2024/11/06	#17
Right Side	62/5310	802.11n HT40	0.084	0.041	-3.34	10.01	10.50	0.094	2024/11/06	
Top	62/5310	802.11n	0.255	0.127	0.05	10.01	10.50	0.285	2024/11/06	

Side

HT40

NOTE: Hotspot SAR test results of WLAN5.3G

10.1.21. SAR measurement Result of WLAN5.6G

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	120/5600	802.11a	0.753	0.272	1.65	11.69	12.00	0.809	2024/11/20	#13
Left Tilt 15 Degree	120/5600	802.11a	0.417	0.148	-3.12	11.69	12.00	0.448	2024/11/20	
Right Cheek	120/5600	802.11a	0.650	0.225	-3.38	11.69	12.00	0.698	2024/11/20	
Right Tilt 15 Degree	120/5600	802.11a	0.321	0.111	-1.07	11.69	12.00	0.345	2024/11/20	
Left Cheek	100/5500	802.11a	0.531	0.162	-1.63	11.69	12.00	0.570	2024/11/20	
Left Cheek	140/5700	802.11a	0.536	0.175	-2.87	10.36	12.00	0.782	2024/11/20	
Left Cheek Repeated	120/5600	802.11a	0.742	0.267	1.52	11.66	12.00	0.802	2024/11/20	

NOTE: Head SAR test results of WLAN5.6G

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	106/5530	802.11ac (VHT80)	0.180	0.087	3.18	11.66	12.00	0.195	2024/11/20	
Back Side	106/5530	802.11ac (VHT80)	0.093	0.044	-2.53	11.66	12.00	0.101	2024/11/20	

NOTE: Body-worn SAR test results of WLAN5.6G

Test Position	Test channel	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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of Hotspot with 10mm	/Freq.		1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
Front Side	106/5530	802.11ac (VHT80)	0.180	0.087	3.18	11.66	12.00	0.195	2024/11/20	
Back Side	106/5530	802.11ac (VHT80)	0.093	0.044	-2.53	11.66	12.00	0.101	2024/11/20	
Right Side	106/5530	802.11ac (VHT80)	0.090	0.042	2.60	11.66	12.00	0.097	2024/11/20	
Top Side	106/5530	802.11ac (VHT80)	0.293	0.142	-0.37	11.66	12.00	0.317	2024/11/20	#18

NOTE: Hotspot SAR test results of WLAN5.6G

10.1.22. SAR measurement Result of WLAN5.8G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	159/5795	802.11ac VHT40	0.648	0.237	-0.77	10.32	10.50	0.675	2024/11/07	#14
Left Tilt 15 Degree	159/5795	802.11ac VHT40	0.365	0.132	-1.01	10.32	10.50	0.380	2024/11/07	
Right Cheek	159/5795	802.11ac VHT40	0.578	0.203	1.12	10.32	10.50	0.602	2024/11/07	
Right Tilt 15 Degree	159/5795	802.11ac VHT40	0.313	0.110	3.78	10.32	10.50	0.326	2024/11/07	

NOTE: Head SAR test results of WLAN5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	159/5795	802.11ac VHT40	0.252	0.117	1.70	10.32	10.50	0.263	2024/11/07	
Back Side	159/5795	802.11ac	0.120	0.056	2.49	10.32	10.50	0.125	2024/11/07	#15

VHT40

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	159/5795	802.11ac VHT40	0.252	0.117	1.70	10.32	10.50	0.263	2024/11/07	
Back Side	159/5795	802.11ac VHT40	0.120	0.056	2.49	10.32	10.50	0.125	2024/11/07	
Right Side	159/5795	802.11ac VHT40	0.123	0.056	-3.88	10.32	10.50	0.128	2024/11/07	
Top Side	159/5795	802.11ac VHT40	0.385	0.180	3.05	10.32	10.50	0.401	2024/11/07	#15

NOTE: Hotspot SAR test results of WLAN5.8G

Test Position of Extremity 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						
Back Side	149/5745	802.11ac VHT40	0.395	0.150	3.28	10.32	10.50	0.156	2024/11/07	#48

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	0.683	0.110	0.793	N/A	N/A

	Left Tilt 15 Degree	0.388	0.057	0.445	N/A	N/A
	Right Cheek	0.590	0.100	0.690	N/A	N/A
	Right Tilt 15 Degree	0.292	0.054	0.346	N/A	N/A
Body-Worn	Front Side	0.578	0.121	0.699	N/A	N/A
	Back Side	0.930	0.159	1.089	N/A	N/A
Hotspot	Front Side	0.578	0.121	0.699	N/A	N/A
	Back Side	0.930	0.159	1.089	N/A	N/A
	Left Side	0.289	N/A	0.289	N/A	N/A
	Right Side	0.373	0.061	0.434	N/A	N/A
	Top Side	N/A	0.051	0.051	N/A	N/A
	Bottom Side	0.488	N/A	0.488	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.683	0.809	1.492	N/A	N/A
	Left Tilt 15 Degree	0.388	0.448	0.836	N/A	N/A
	Right Cheek	0.590	0.702	1.292	N/A	N/A
	Right Tilt 15 Degree	0.292	0.379	0.671	N/A	N/A
Body-Worn	Front Side	0.578	0.263	0.841	N/A	N/A
	Back Side	0.930	0.125	1.055	N/A	N/A
Hotspot	Front Side	0.578	0.263	0.841	N/A	N/A
	Back Side	0.930	0.125	1.055	N/A	N/A
	Left Side	0.289	N/A	0.289	N/A	N/A
	Right Side	0.373	0.128	0.501	N/A	N/A
	Top Side	N/A	0.401	0.401	N/A	N/A
	Bottom Side	0.488	N/A	0.488	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			

Head	Left Cheek	0.683	0.265	0.948	N/A	N/A
	Left Tilt 15 Degree	0.388	0.265	0.653	N/A	N/A
	Right Cheek	0.590	0.265	0.855	N/A	N/A
	Right Tilt 15 Degree	0.292	0.265	0.557	N/A	N/A
Body-Worn	Front Side	0.578	0.132	0.710	N/A	N/A
	Back Side	0.930	0.132	1.062	N/A	N/A
Hotspot	Front Side	0.578	0.132	0.710	N/A	N/A
	Back Side	0.930	0.132	1.062	N/A	N/A
	Left Side	0.289	0.132	0.421	N/A	N/A
	Right Side	0.373	0.132	0.505	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.488	0.132	0.620	N/A	N/A

NSA

Test Position		Scaled SAR _{MAX}			Σ 1-g SAR (W/Kg)	SPLSR	Remark
		NR n78	LTE band2	DTS			
Head	Left Cheek	0.388	0.199	0.110	0.697	N/A	N/A
	Left Tilt 15 Degree	0.230	0.104	0.057	0.391	N/A	N/A
	Right Cheek	0.333	0.175	0.100	0.608	N/A	N/A
	Right Tilt 15 Degree	0.165	0.092	0.054	0.311	N/A	N/A
Body-Worn	Front Side	0.310	0.413	0.121	0.844	N/A	N/A
	Back Side	0.495	0.773	0.159	1.427	N/A	N/A
Hotspot	Front Side	0.310	0.413	0.121	0.844	N/A	N/A
	Back Side	0.495	0.773	0.159	1.427	N/A	N/A
	Left Side	0.152	0.289	N/A	0.410	N/A	N/A
	Right Side	0.161	0.244	0.061	0.466	N/A	N/A
	Top Side	N/A	N/A	0.051	0.051	N/A	N/A

	Bottom Side	0.264	0.201	N/A	0.465	N/A	N/A
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Test Position		Scaled SAR _{MAX}			Σ 1-g SAR (W/Kg)	SPLSR	Remark
		NR n78	LTE band2	NII			
Head	Left Cheek	0.388	0.199	0.809	1.401	N/A	N/A
	Left Tilt 15 Degree	0.230	0.104	0.448	0.785	N/A	N/A
	Right Cheek	0.333	0.175	0.702	1.211	N/A	N/A
	Right Tilt 15 Degree	0.165	0.092	0.379	0.636	N/A	N/A
Body-Worn	Front Side	0.310	0.413	0.263	0.986	N/A	N/A
	Back Side	0.495	0.773	0.125	1.393	N/A	N/A
Hotspot	Front Side	0.310	0.413	0.263	0.986	N/A	N/A
	Back Side	0.495	0.773	0.125	1.393	N/A	N/A
	Left Side	0.152	0.289	N/A	0.410	N/A	N/A
	Right Side	0.161	0.244	0.128	0.533	N/A	N/A
	Top Side	N/A	N/A	0.401	0.401	N/A	N/A
	Bottom Side	0.264	0.201	N/A	0.465	N/A	N/A

Test Position		Scaled SAR _{MAX}			Σ 1-g SAR (W/Kg)	SPLSR	Remark
		NR n78	LTE band2	DSS			
Head	Left Cheek	0.388	0.199	0.265	0.852	N/A	N/A
	Left Tilt 15 Degree	0.230	0.104	0.265	0.599	N/A	N/A
	Right Cheek	0.333	0.175	0.265	0.773	N/A	N/A
	Right Tilt 15 Degree	0.165	0.092	0.265	0.522	N/A	N/A
Body-Worn	Front Side	0.310	0.413	0.132	0.855	N/A	N/A
	Back Side	0.495	0.773	0.132	1.400	N/A	N/A

Hotspot	Front Side	0.310	0.413	0.132	0.855	N/A	N/A
	Back Side	0.495	0.773	0.132	1.400	N/A	N/A
	Left Side	0.152	0.289	0.132	0.573	N/A	N/A
	Right Side	0.161	0.244	0.132	0.537	N/A	N/A
	Top Side	N/A	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.264	0.201	0.132	0.597	N/A	N/A

Test Position		Scaled SAR _{MAX}			Σ 1-g SAR (W/Kg)	SPLSR	Remark
		NR n78	LTE band2	DTS			
Extremity	Back Side	0.421	0.893	0.162	1.474	N/A	N/A

Test Position		Scaled SAR _{MAX}			Σ 1-g SAR (W/Kg)	SPLSR	Remark
		NR n78	LTE band2	NII			
Extremity	Back Side	0.421	0.893	0.156	1.470	N/A	N/A

Test Position		Scaled SAR _{MAX}			Σ 1-g SAR (W/Kg)	SPLSR	Remark
		NR n78	LTE band2	DSS			
Extremity	Back Side	0.421	0.893	0.106	1.420	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 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5600MHz
MEASUREMENT 9 System Performance Check - 5800MHz

MEASUREMENT 1

Date of measurement: 27/11/2024

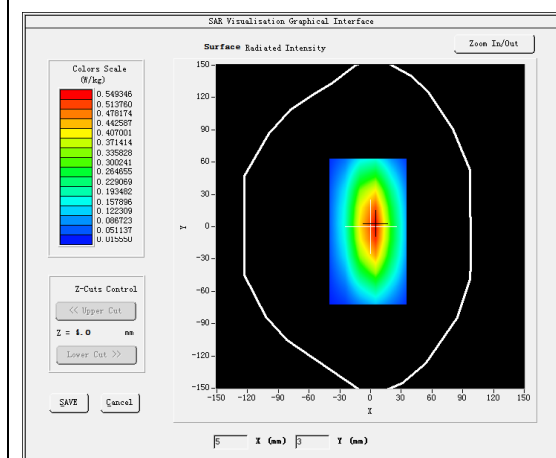
A. Experimental conditions.

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

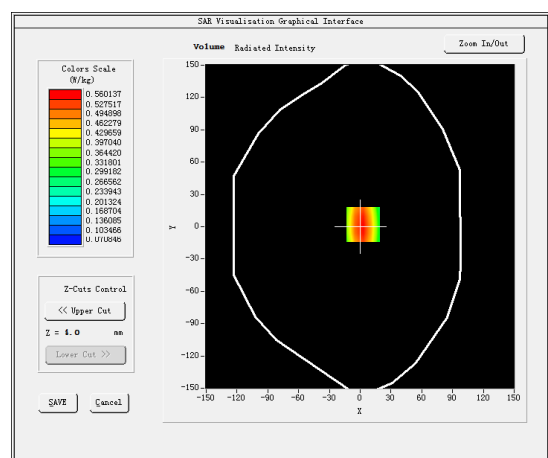
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	40.869524
Relative permittivity (imaginary part)	21.646004
Conductivity (S/m)	0.901917
Variation (%)	0.310000

SURFACE SAR



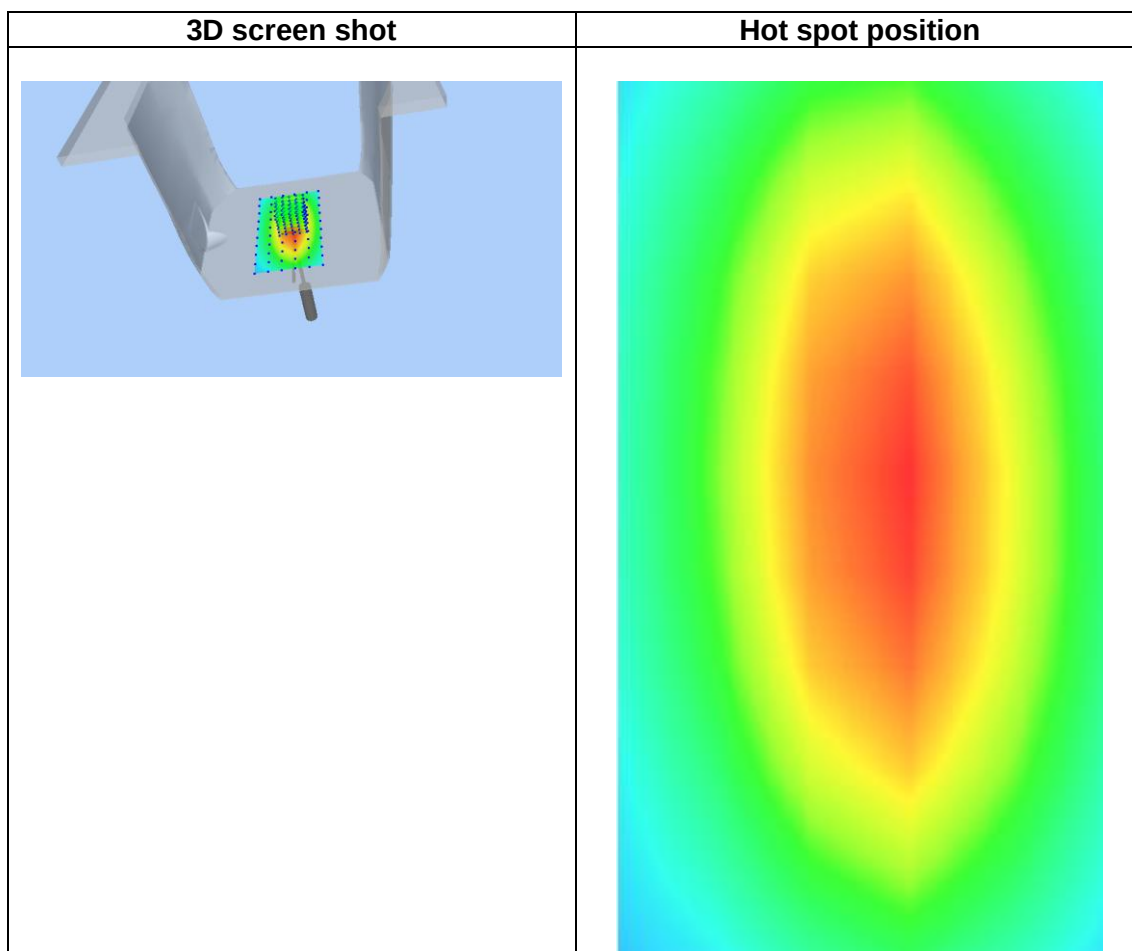
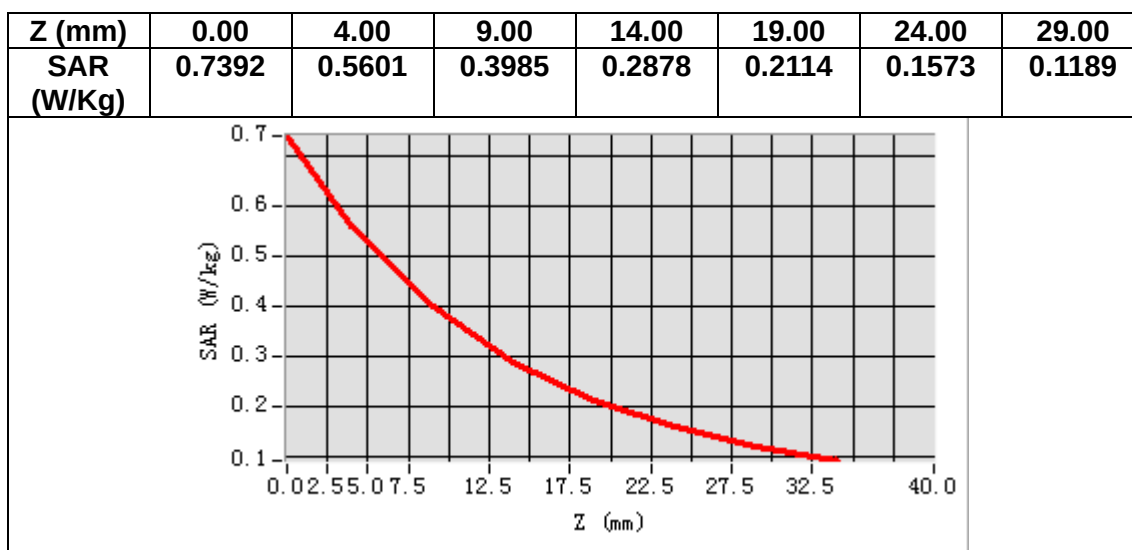
VOLUME SAR



Maximum location: X=3.00, Y=2.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.366575
SAR 1g (W/Kg)	0.543400



MEASUREMENT 2

Date of measurement: 26/11/2024

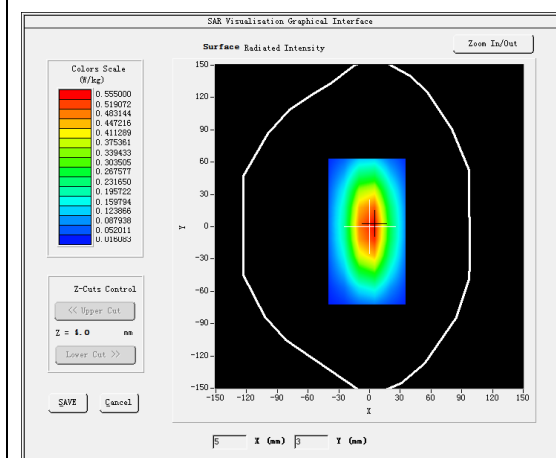
A. Experimental conditions.

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

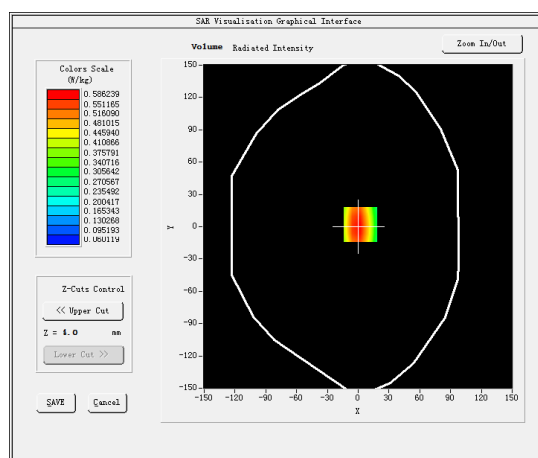
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.934568
Relative permittivity (imaginary part)	19.710231
Conductivity (S/m)	0.914336
Variation (%)	-0.150000

SURFACE SAR



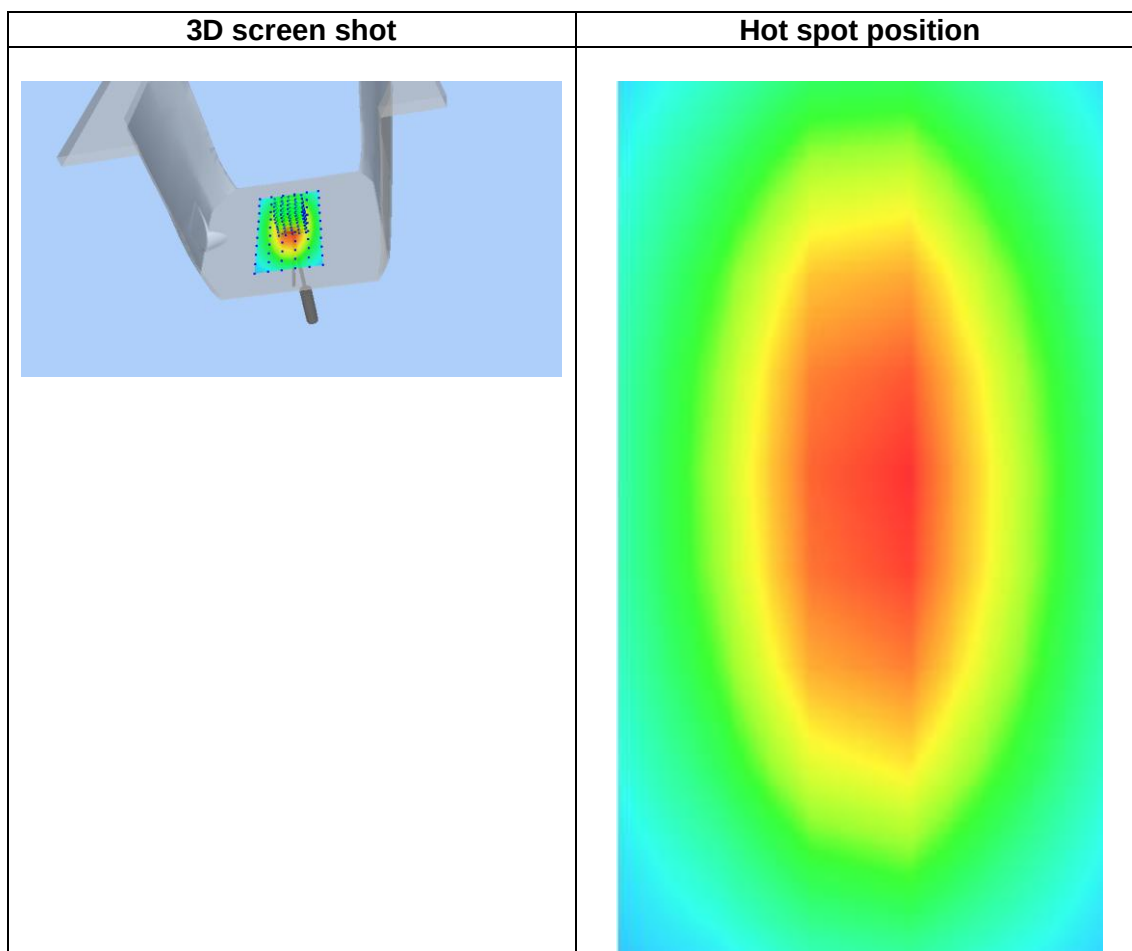
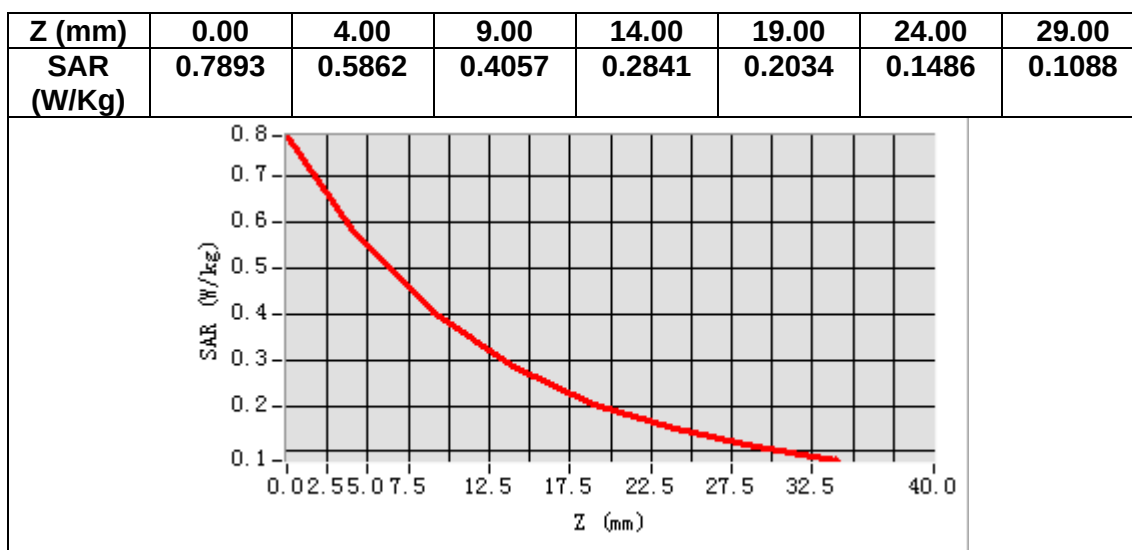
VOLUME SAR



Maximum location: X=2.00, Y=2.00

SAR Peak: 0.80 W/kg

SAR 10g (W/Kg)	0.375675
SAR 1g (W/Kg)	0.574430



MEASUREMENT 3

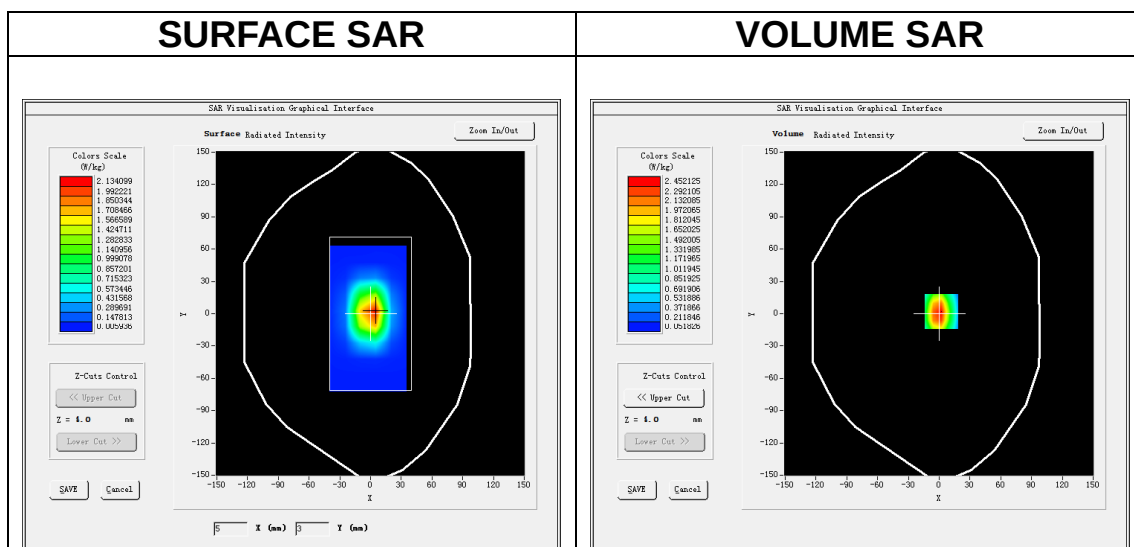
Date of measurement: 21/11/2024

A. Experimental conditions.

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

B. SAR Measurement Results

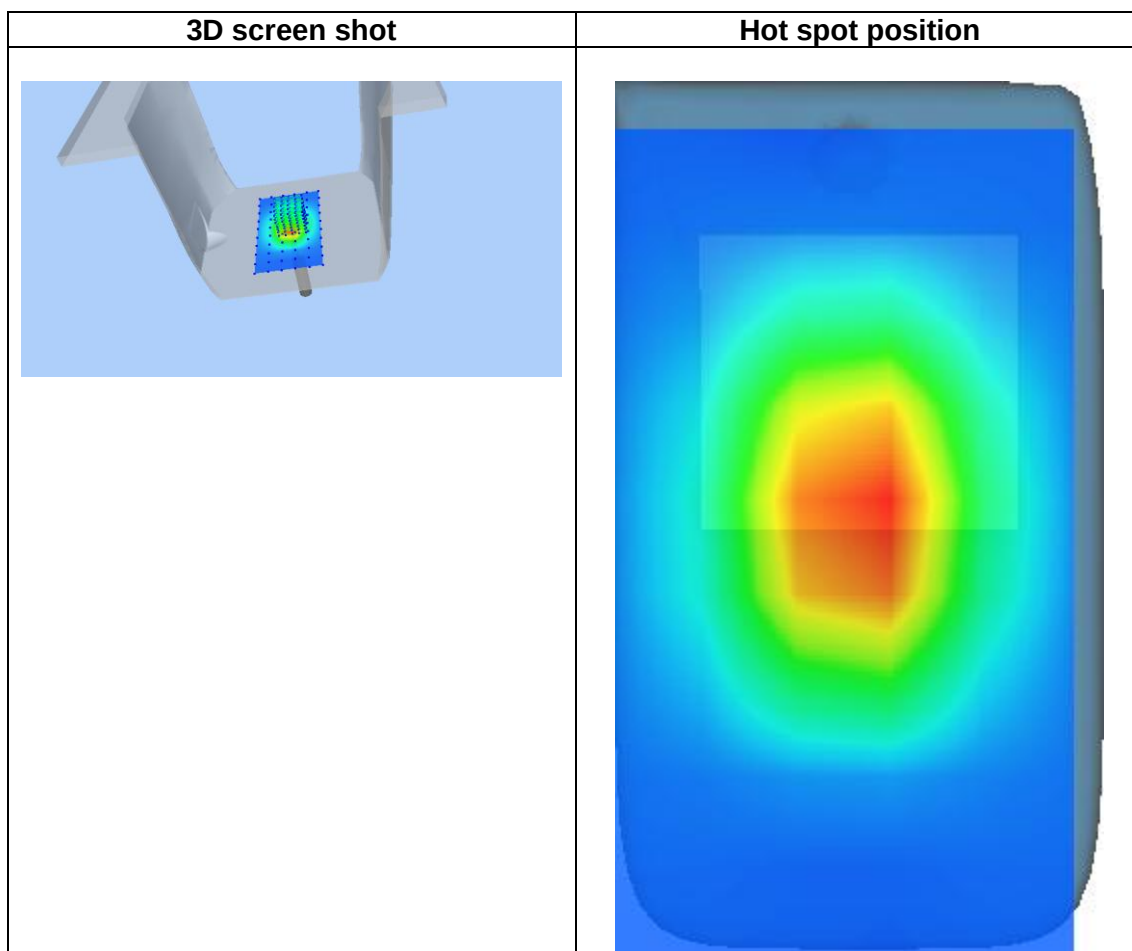
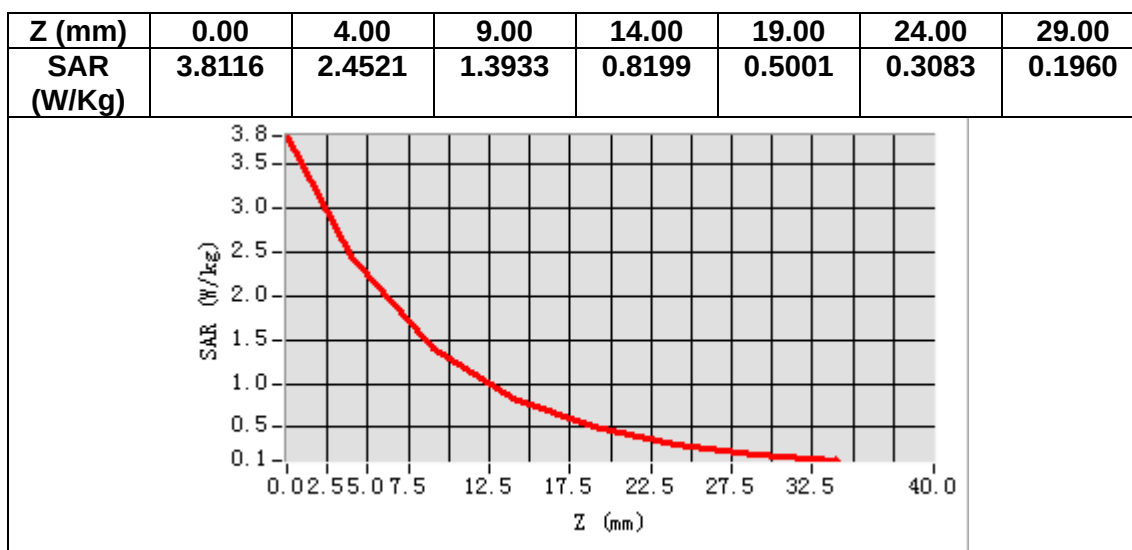
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.077704
Relative permittivity (imaginary part)	13.865005
Conductivity (S/m)	1.386501
Variation (%)	-0.110000



Maximum location: X=2.00, Y=2.00

SAR Peak: 3.95 W/kg

SAR 10g (W/Kg)	1.231630
SAR 1g (W/Kg)	2.380187



MEASUREMENT 4

Date of measurement: 24/11/2024

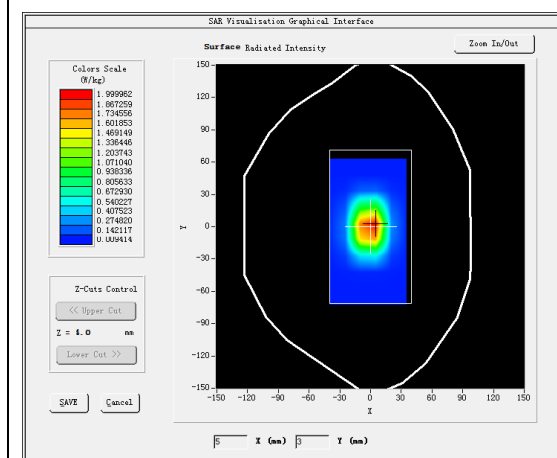
A. Experimental conditions.

<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>

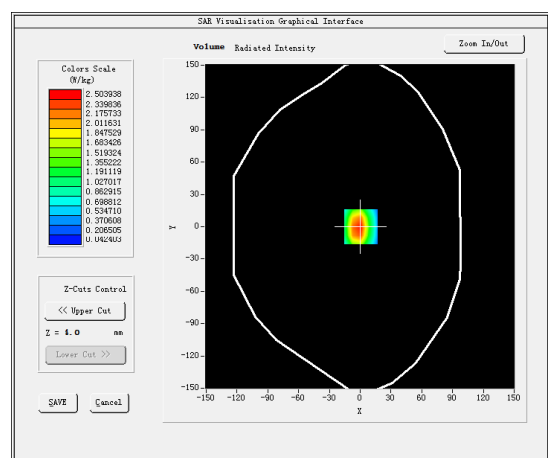
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.328712
Relative permittivity (imaginary part)	13.679631
Conductivity (S/m)	1.443961
Variation (%)	-0.190000

SURFACE SAR



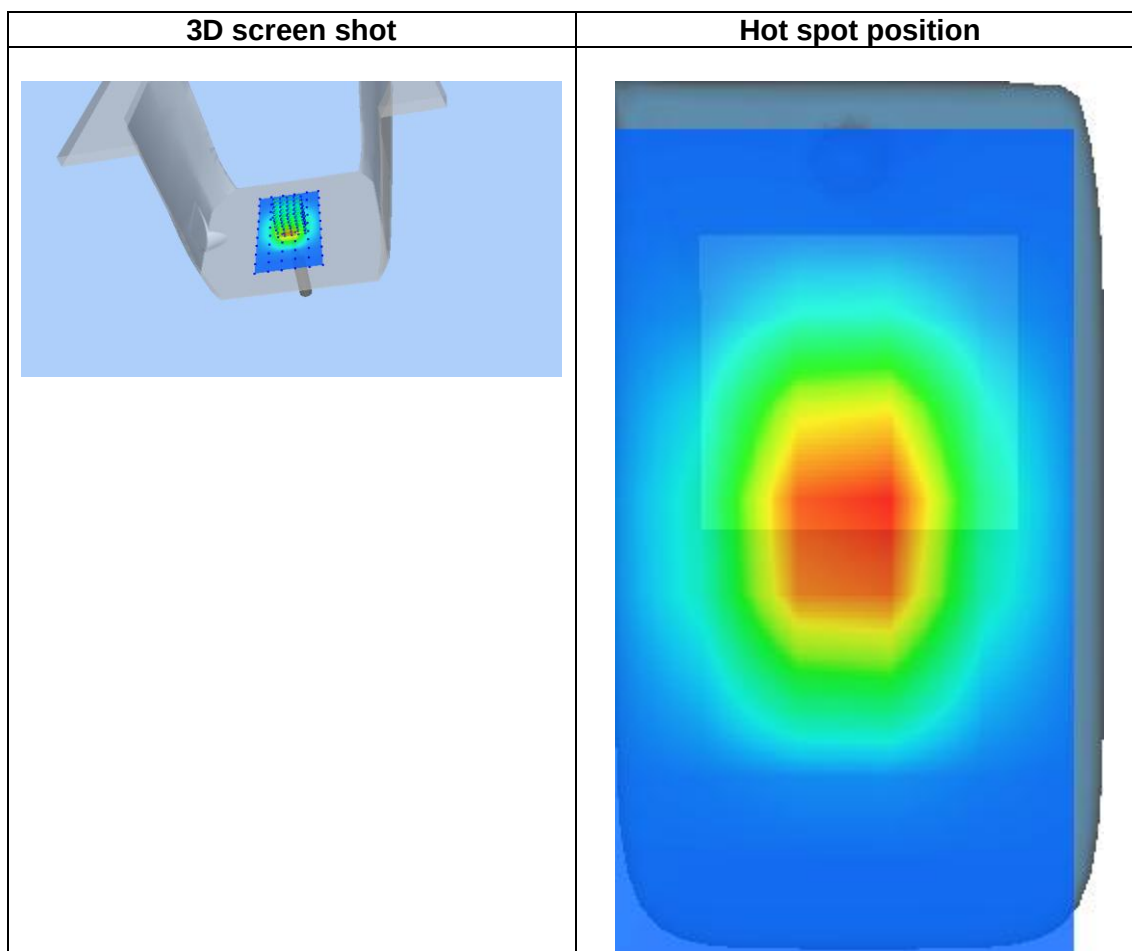
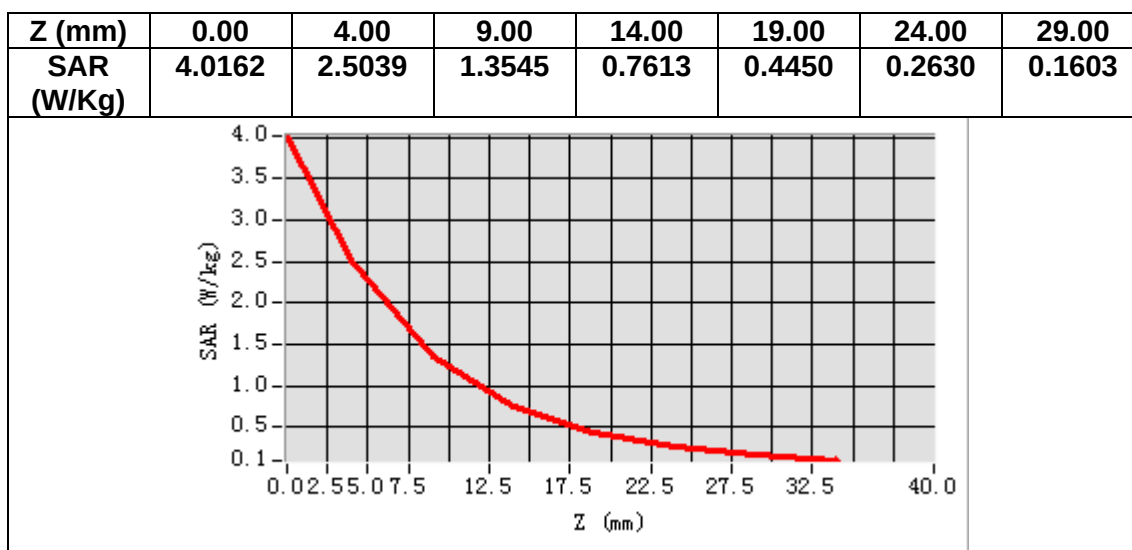
VOLUME SAR



Maximum location: X=1.00, Y=0.00

SAR Peak: 4.16 W/kg

SAR 10g (W/Kg)	1.230521
SAR 1g (W/Kg)	2.509710



MEASUREMENT 5

Date of measurement: 29/11/2024

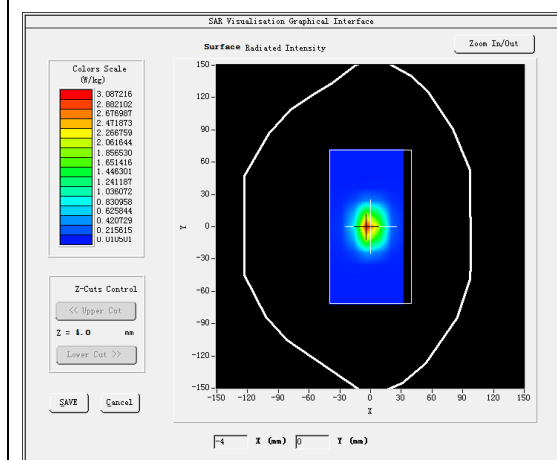
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2300</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.73</u>

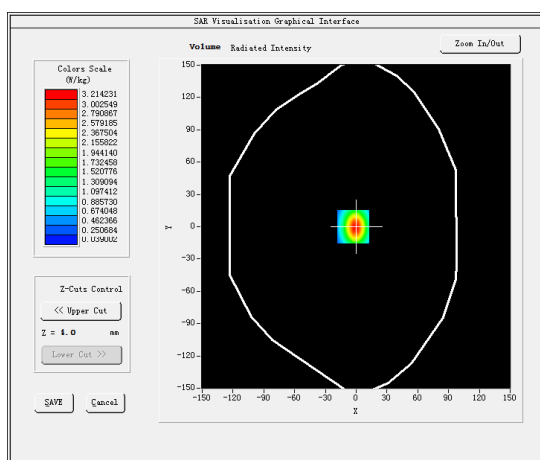
B. SAR Measurement Results

Frequency (MHz)	2300.000000
Relative permittivity (real part)	39.405731
Relative permittivity (imaginary part)	12.667461
Conductivity (S/m)	1.618620
Variation (%)	-0.420000

SURFACE SAR



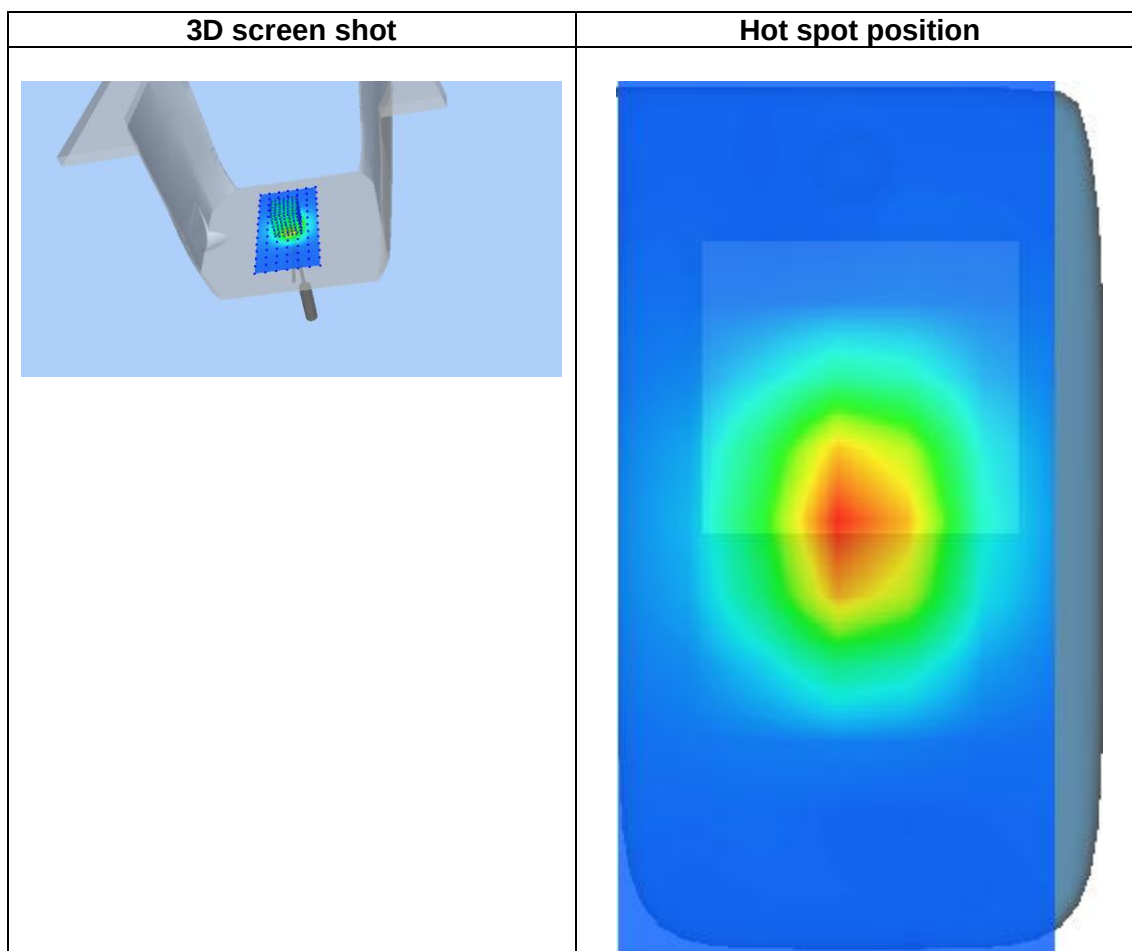
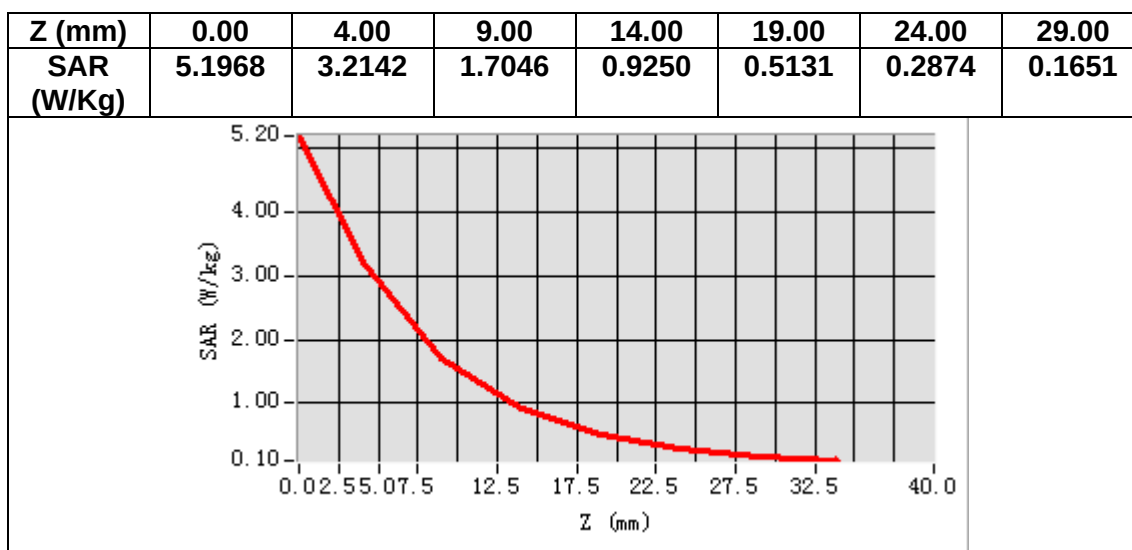
VOLUME SAR



Maximum location: X=-3.00, Y=0.00

SAR Peak: 5.32 W/kg

SAR 10g (W/Kg)	1.418309
SAR 1g (W/Kg)	3.001488



MEASUREMENT 6

Date of measurement: 18/11/2024

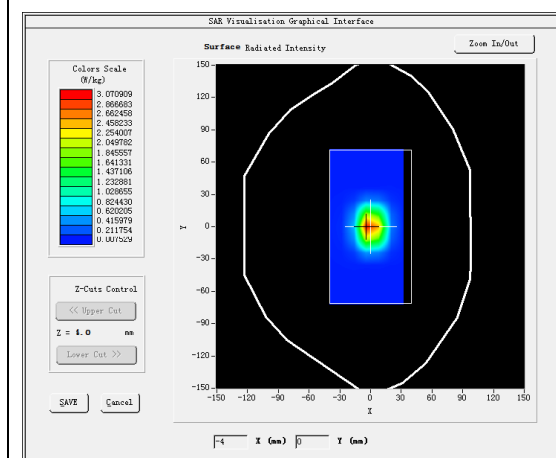
A. Experimental conditions.

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

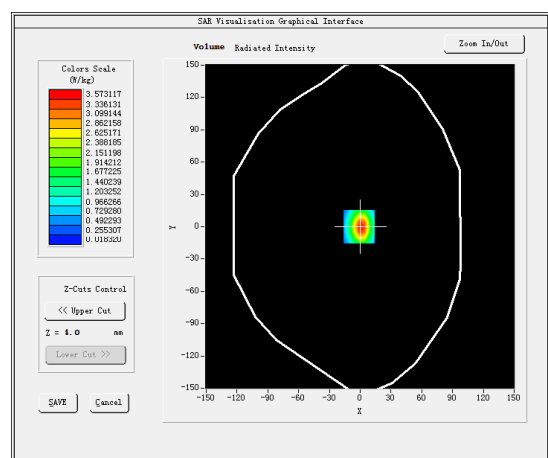
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.962009
Relative permittivity (imaginary part)	13.205487
Conductivity (S/m)	1.797414
Variation (%)	-0.130000

SURFACE SAR



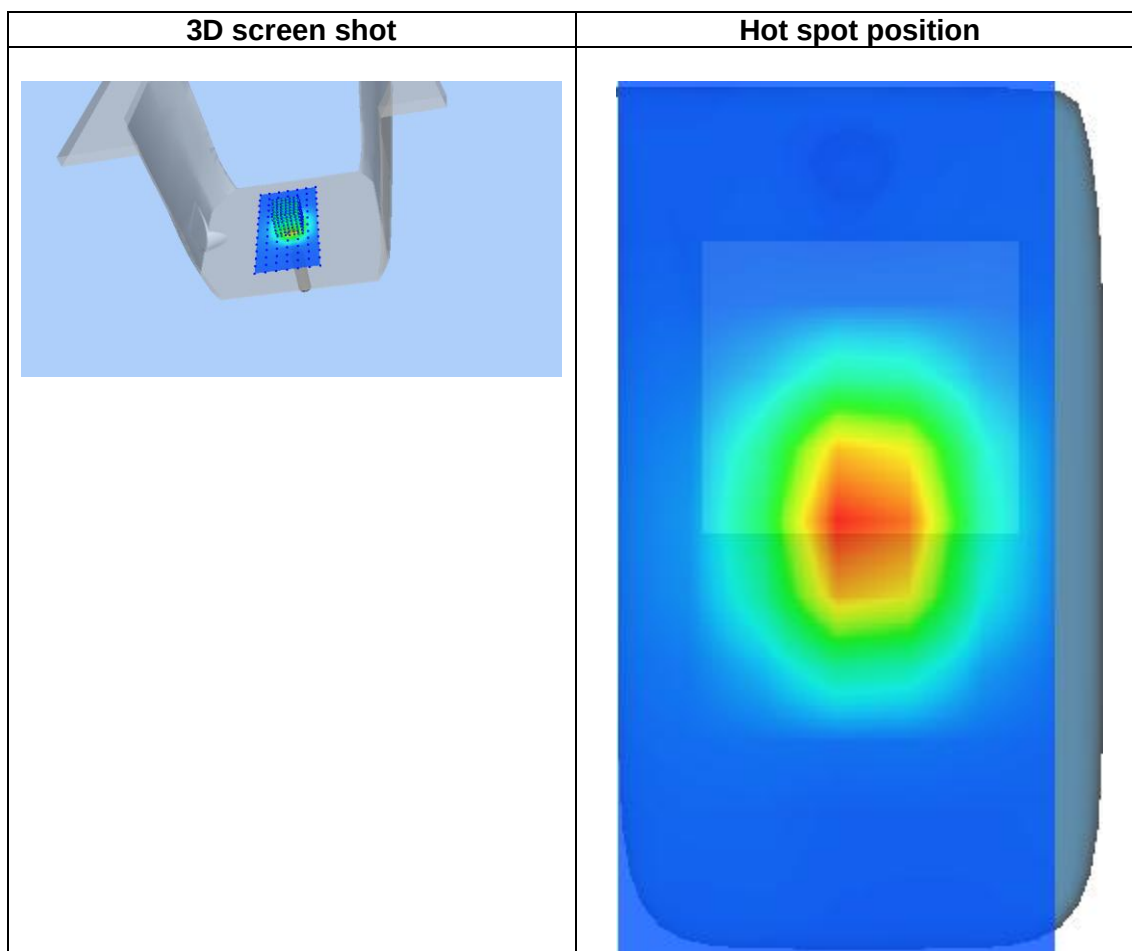
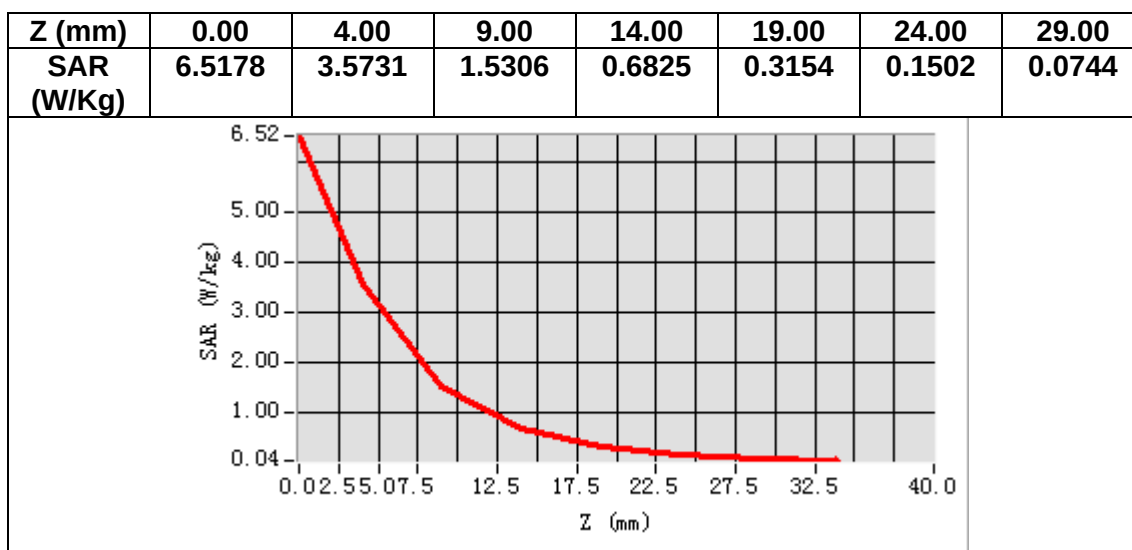
VOLUME SAR



Maximum location: X=-1.00, Y=0.00

SAR Peak: 6.57 W/kg

SAR 10g (W/Kg)	1.404082
SAR 1g (W/Kg)	3.347366



MEASUREMENT 7

Date of measurement: 25/11/2024

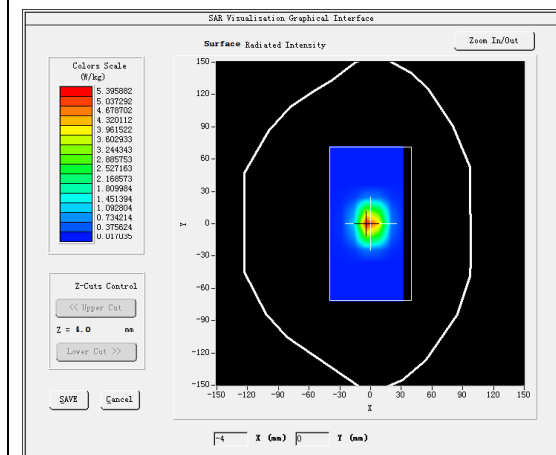
A. Experimental conditions.

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

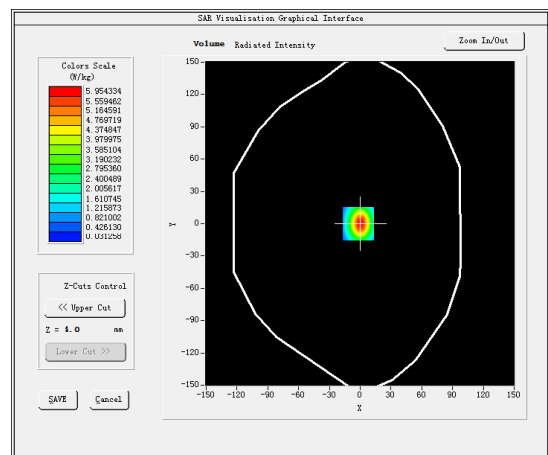
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.878441
Relative permittivity (imaginary part)	13.731472
Conductivity (S/m)	1.983435
Variation (%)	-0.680000

SURFACE SAR



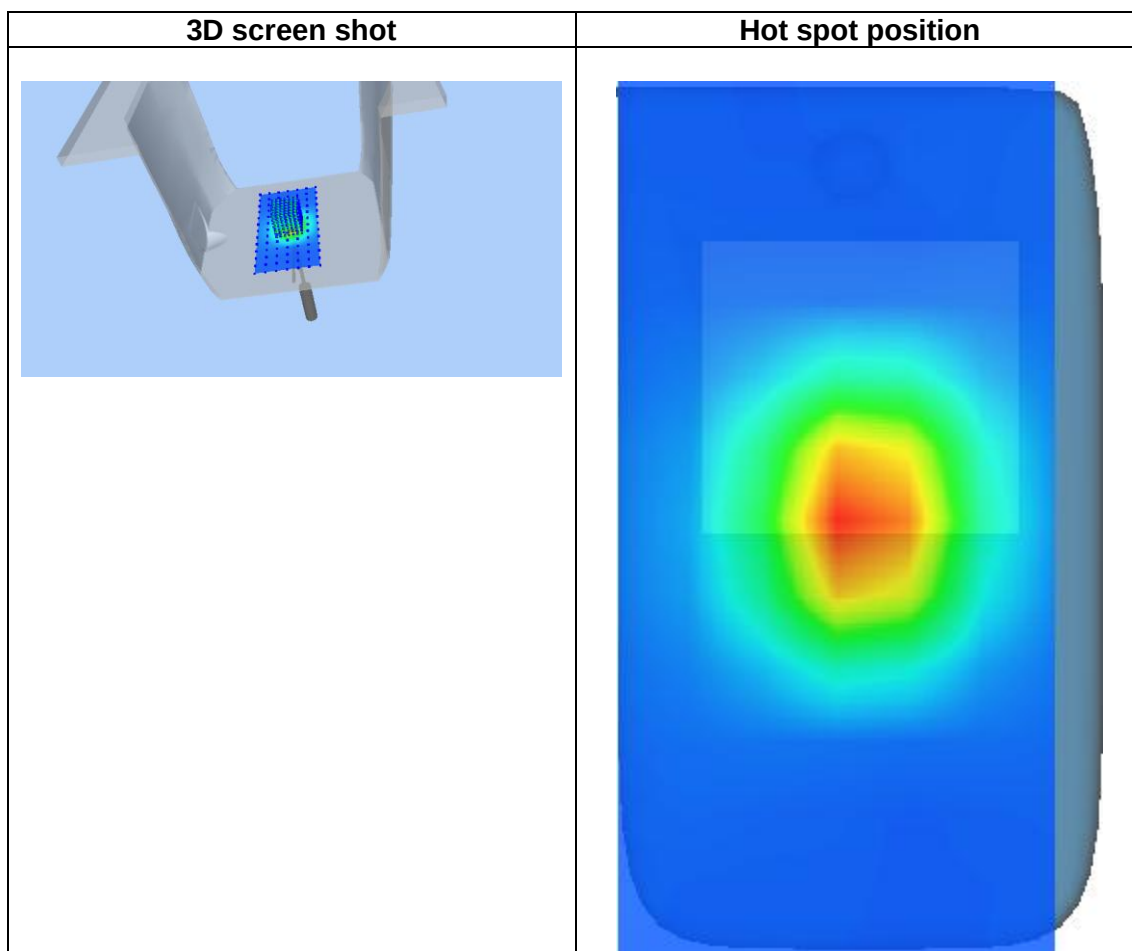
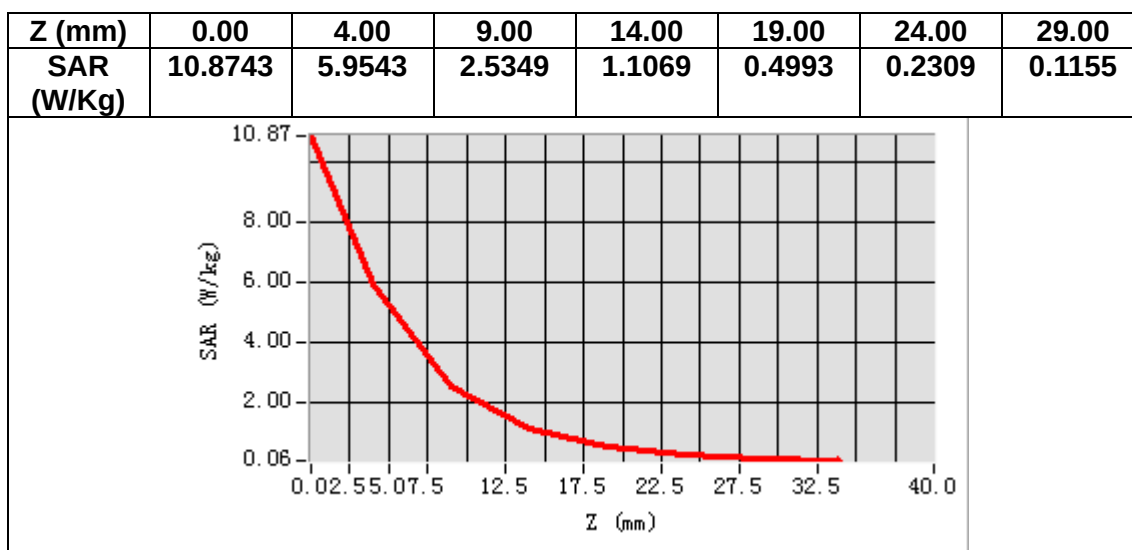
VOLUME SAR



Maximum location: X=-2.00, Y=0.00

SAR Peak: 11.17 W/kg

SAR 10g (W/Kg)	2.367676
SAR 1g (W/Kg)	5.709248



MEASUREMENT 8

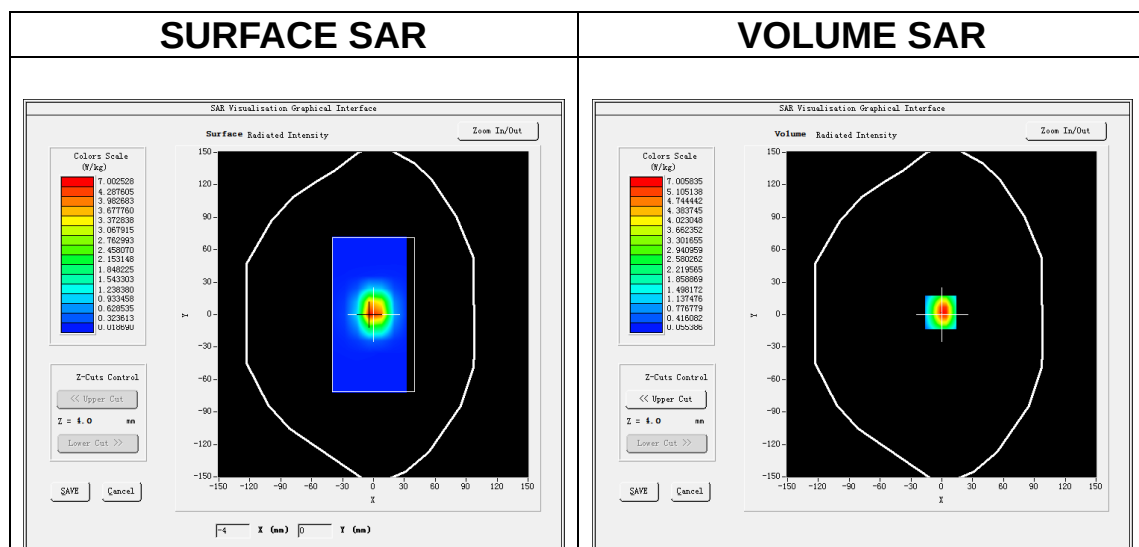
Date of measurement: 28/11/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW3500</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.15</u>

B. SAR Measurement Results

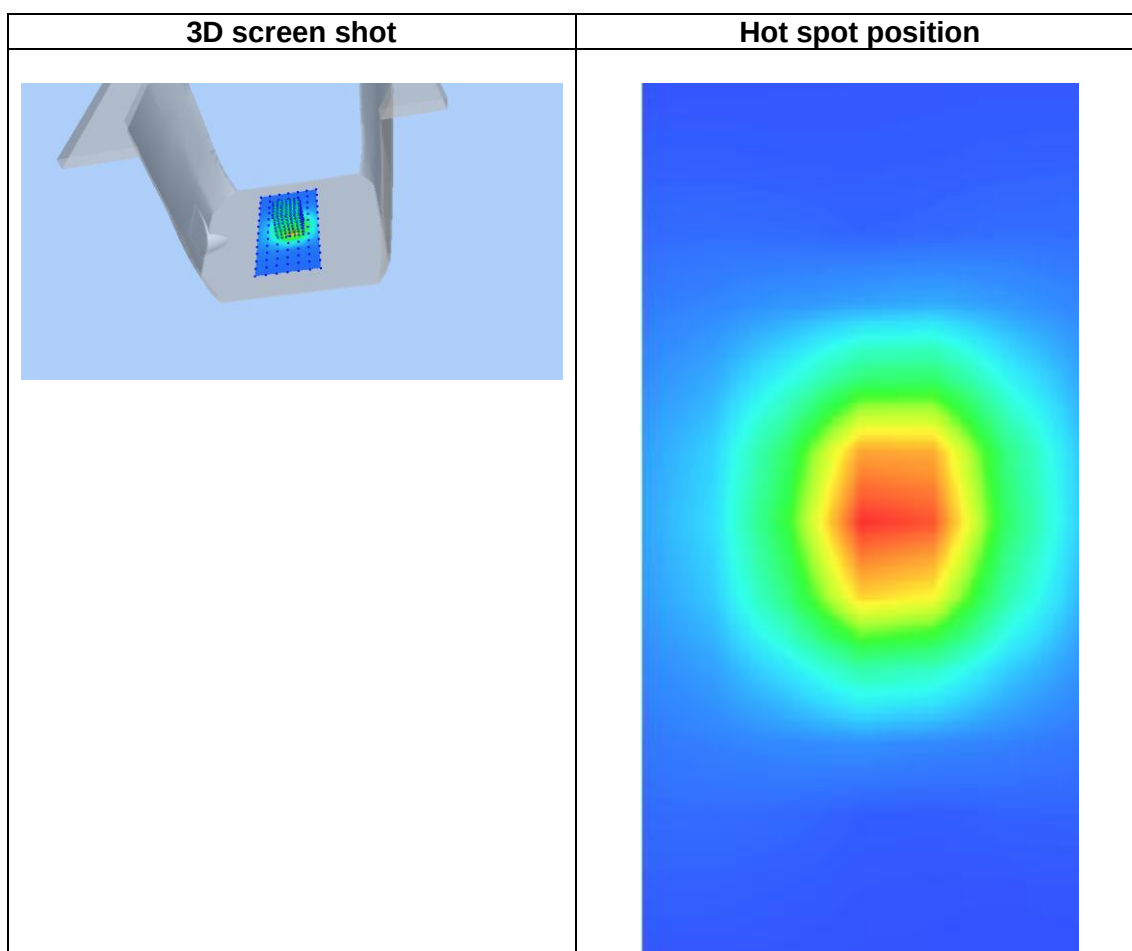
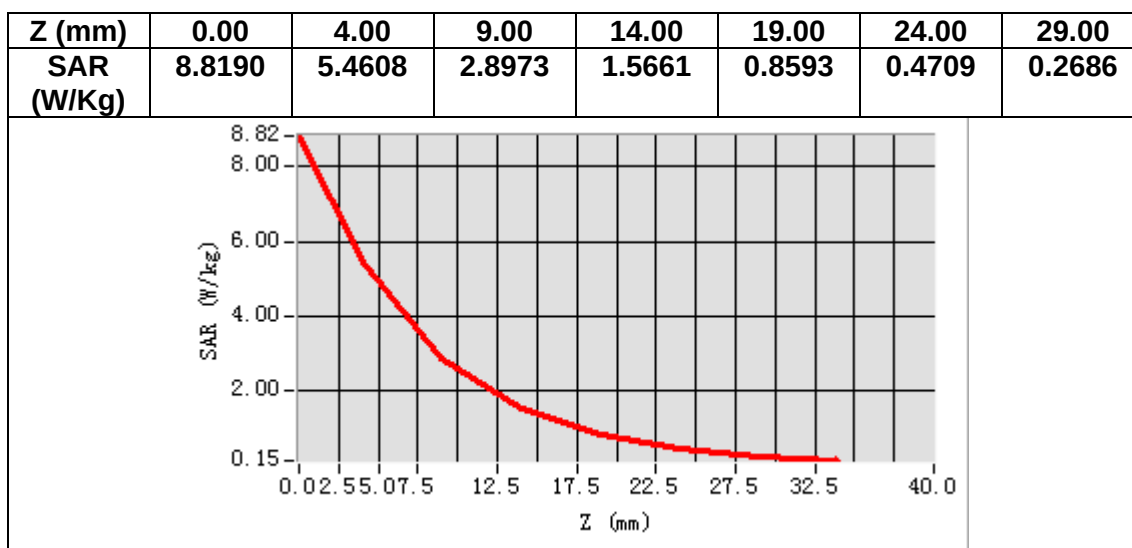
Frequency (MHz)	3500.000000
Relative permittivity (real part)	37.569071
Relative permittivity (imaginary part)	14.509588
Conductivity (S/m)	14.509588
Variation (%)	2.510000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.528674
SAR 1g (W/Kg)	6.975658



MEASUREMENT 9

Date of measurement: 19/11/2024

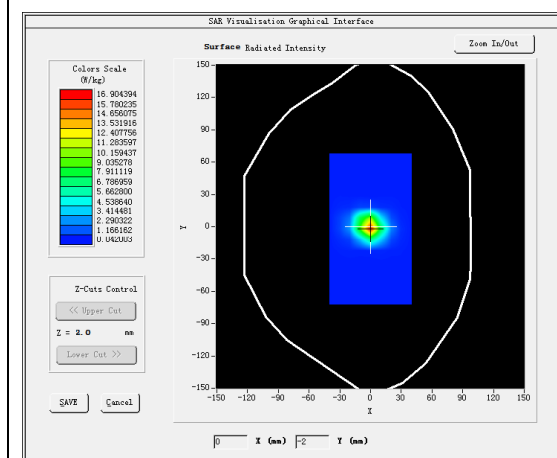
A. Experimental conditions.

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

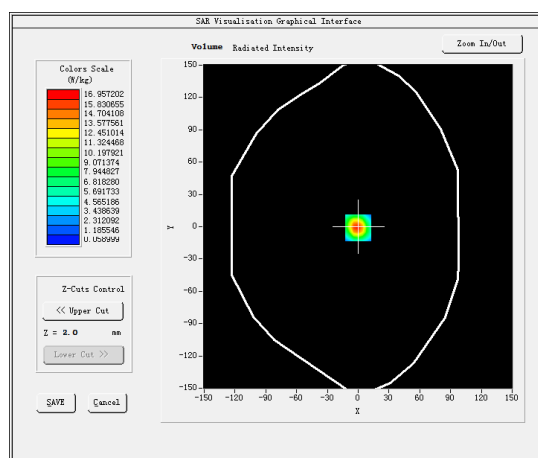
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.612485
Relative permittivity (imaginary part)	15.678512
Conductivity (S/m)	4.529348
Variation (%)	-1.780000

SURFACE SAR



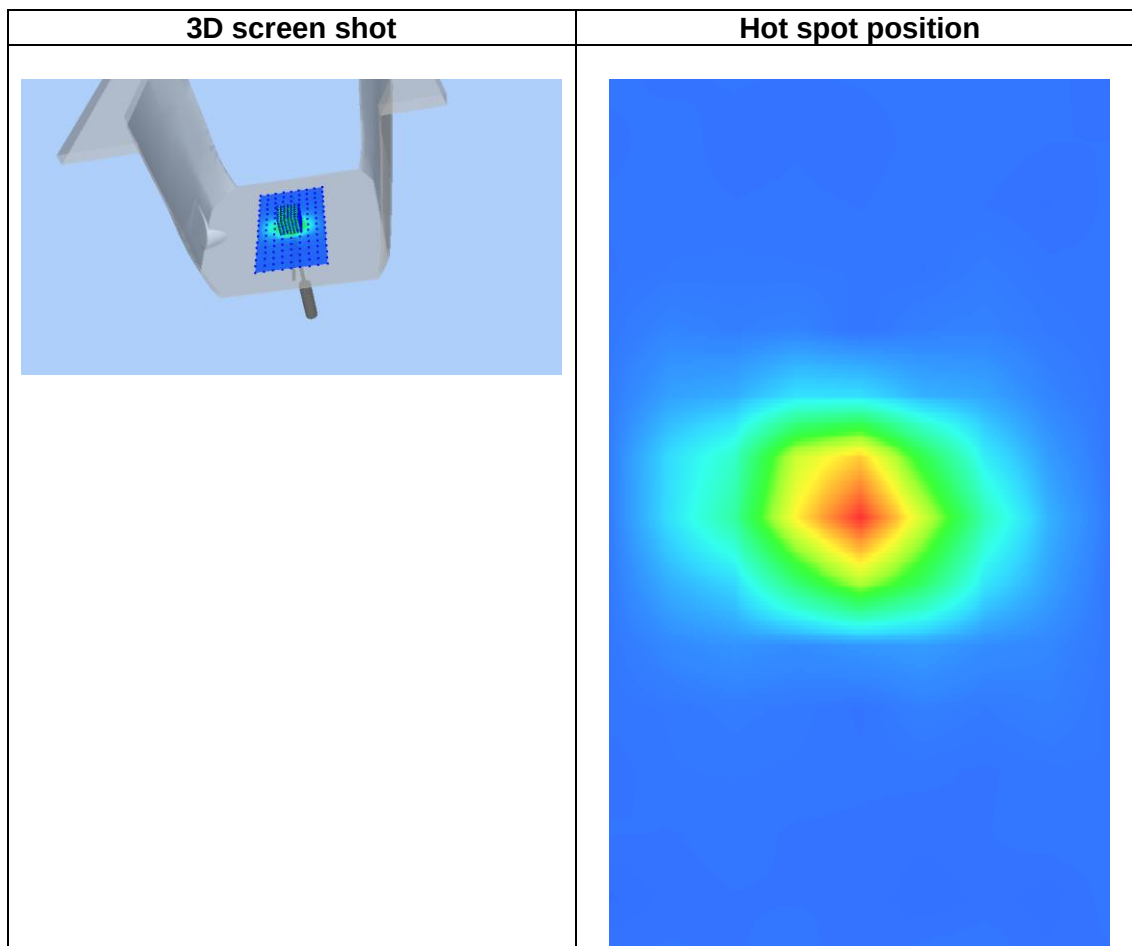
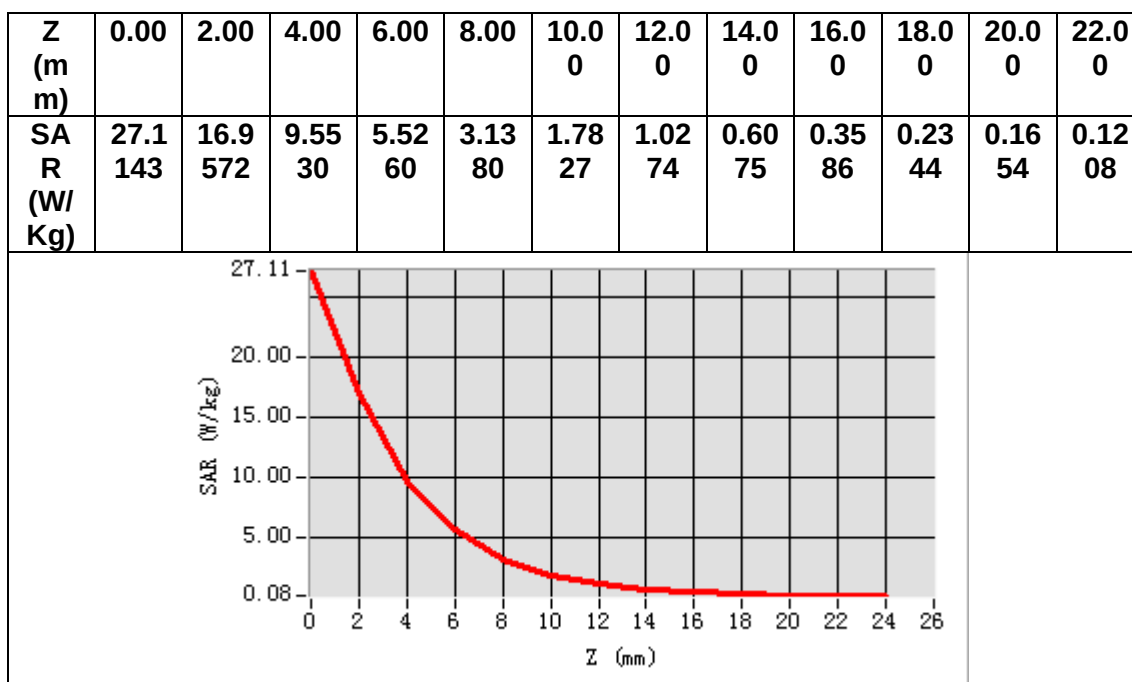
VOLUME SAR



Maximum location: X=0.00, Y=-1.00

SAR Peak: 28.22 W/kg

SAR 10g (W/Kg)	3.355712
SAR 1g (W/Kg)	9.746747



MEASUREMENT 10

Date of measurement: 6/11/2024

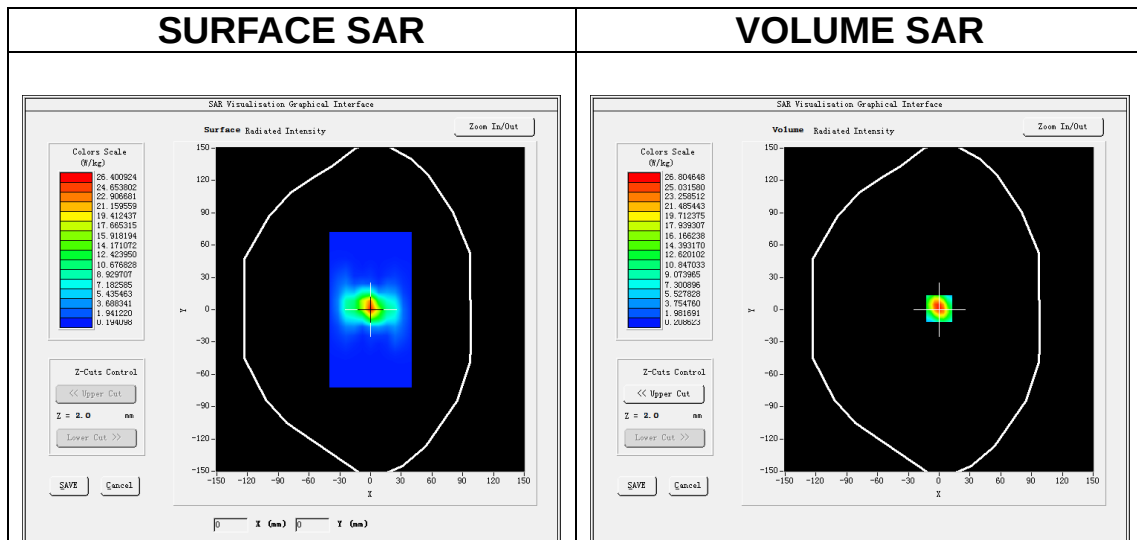
A. Experimental conditions.

<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>CW5400</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.97</u>

B. SAR Measurement Results

Frequency (MHz)	5400.000000
Relative permittivity (real part)	34.582269
Relative permittivity (imaginary part)	16.276009
Conductivity (S/m)	4.882803
Variation (%)	-0.700000

SURFACE SAR

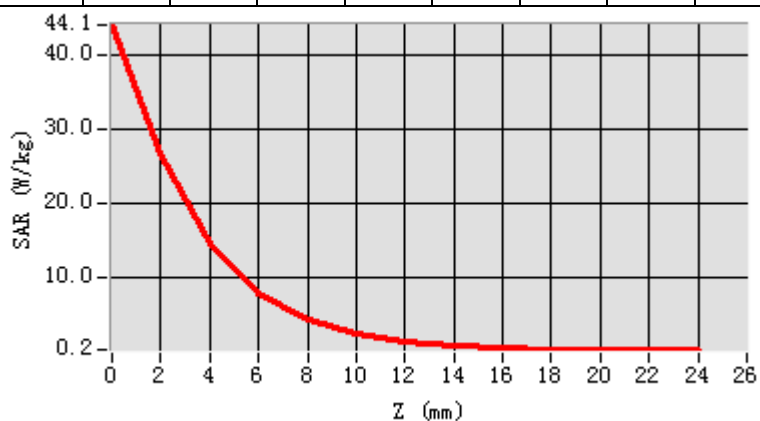


Maximum location: X=0.00, Y=1.00

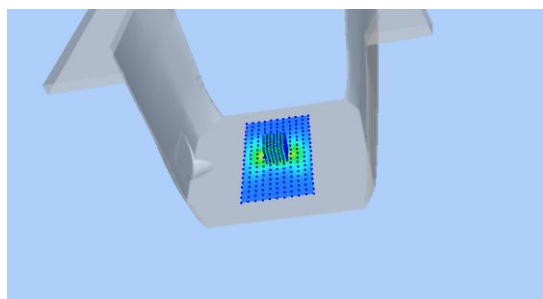
SAR Peak: 46.18 W/kg

SAR 10g (W/Kg)	5.425369
SAR 1g (W/Kg)	15.914356

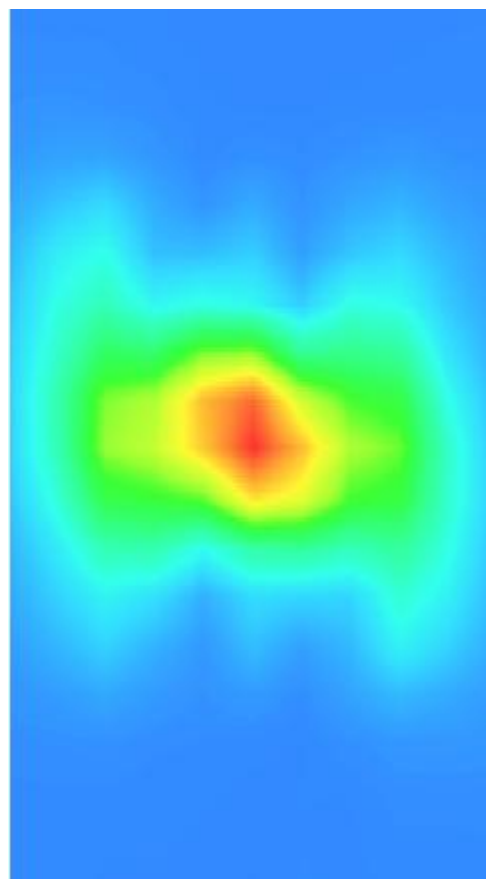
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	44.0 74	26.8 75	14.6 12	7.81 09	4.22 26	2.32 38	1.32 37	0.78 13	0.50 04	0.37 45	0.28 03	0.26 13



3D screen shot



Hot spot position



MEASUREMENT 11

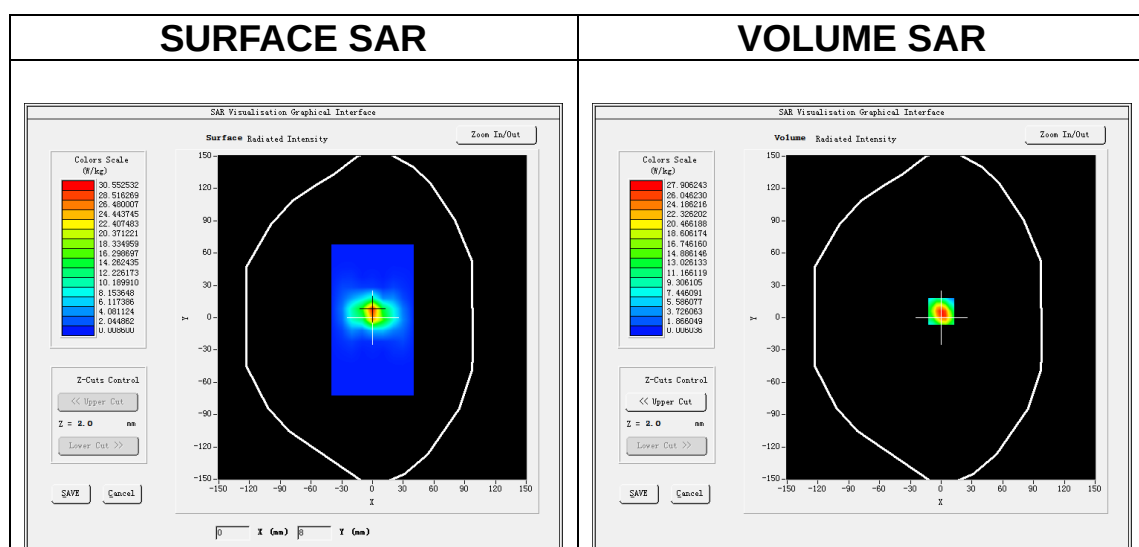
Date of measurement: 20/11/2024

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>CW5600</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.88</u>

B. SAR Measurement Results

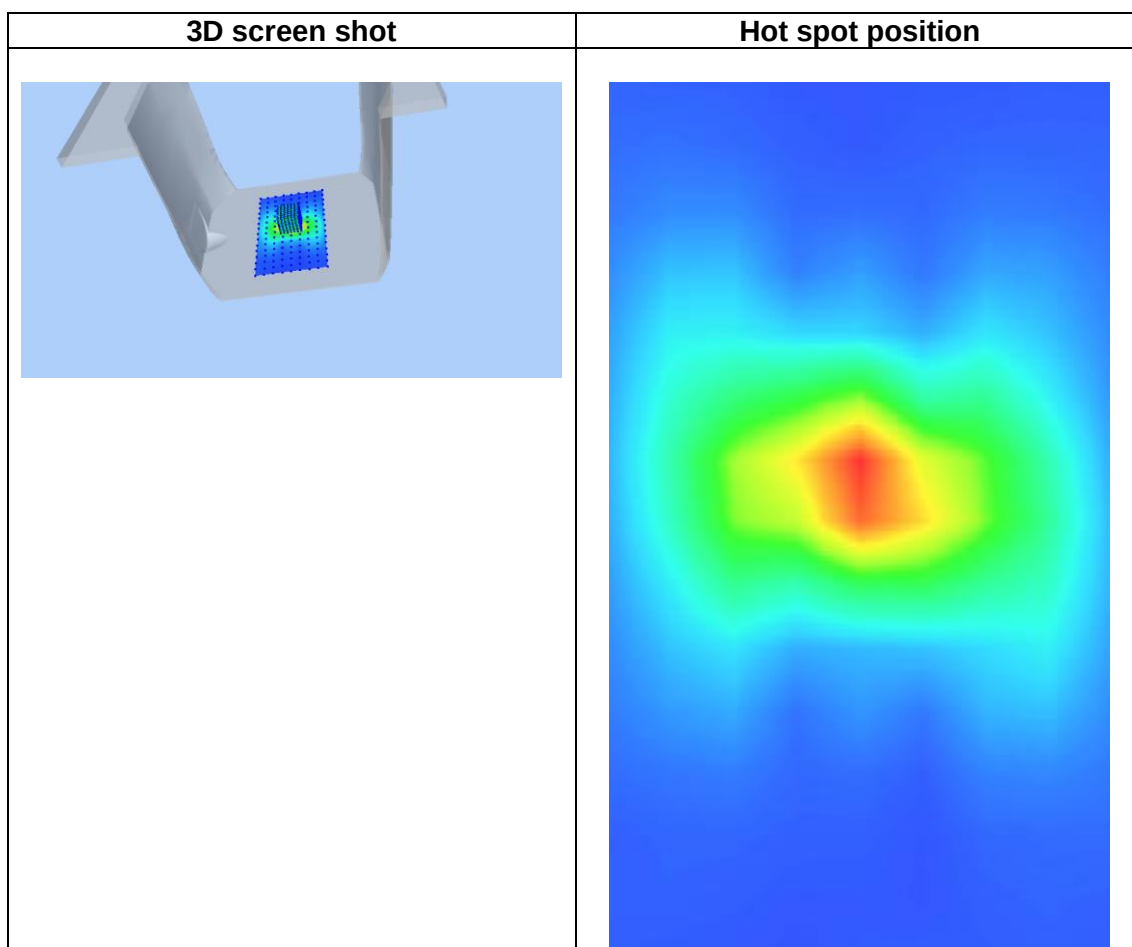
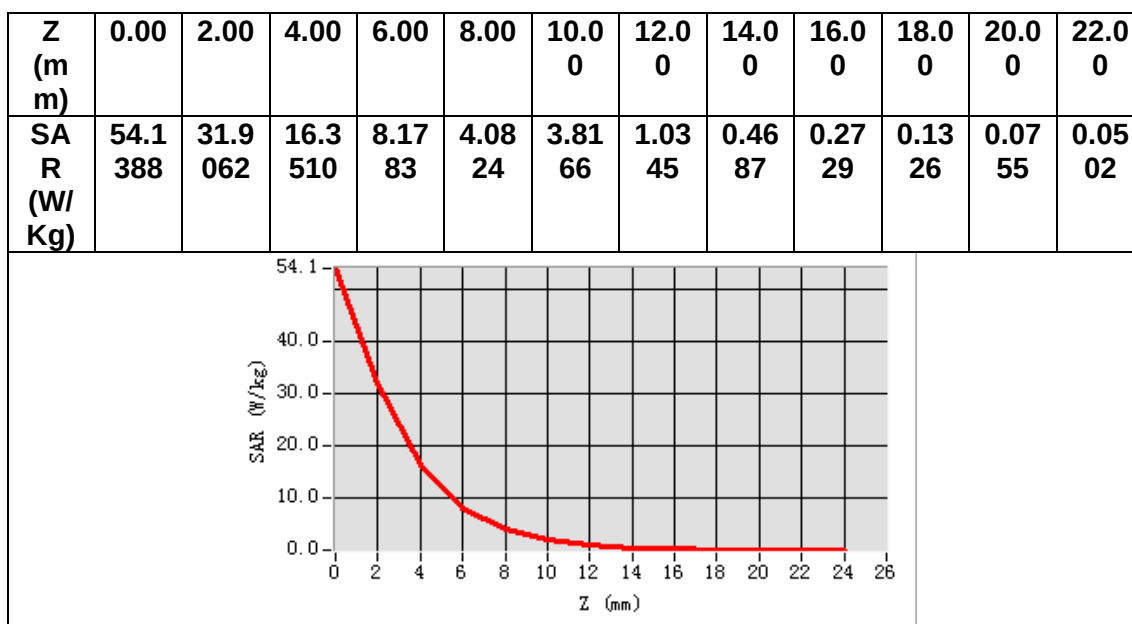
Frequency (MHz)	5600.000000
Relative permittivity (real part)	34.529834
Relative permittivity (imaginary part)	15.996151
Conductivity (S/m)	4.976580
Variation (%)	0.134270



Maximum location: X=0.00, Y=6.00

SAR Peak: 51.23 W/kg

SAR 10g (W/Kg)	5.508756
SAR 1g (W/Kg)	17.240338



MEASUREMENT 12

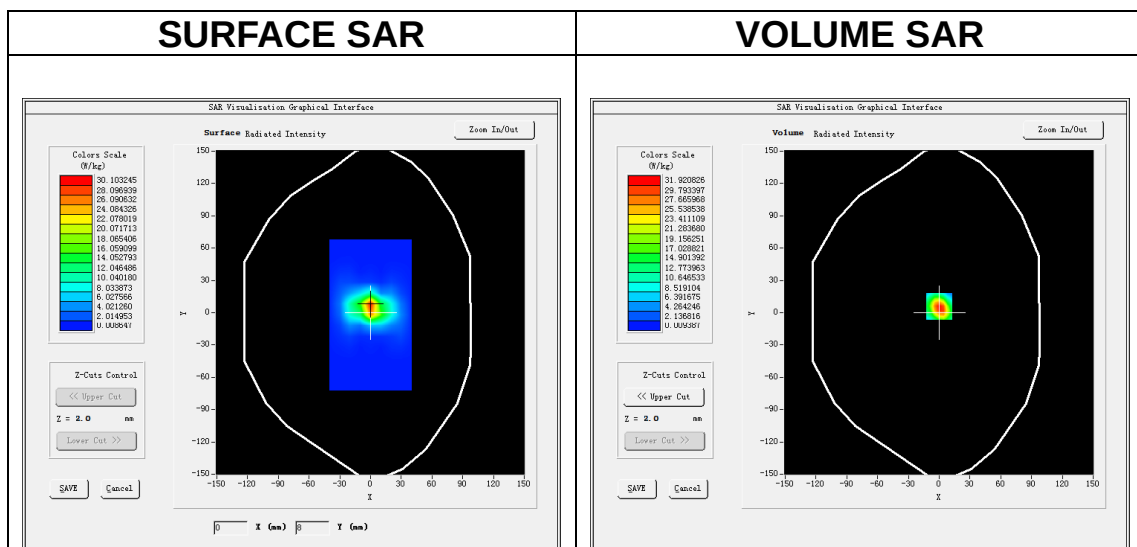
Date of measurement: 7/11/2024

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

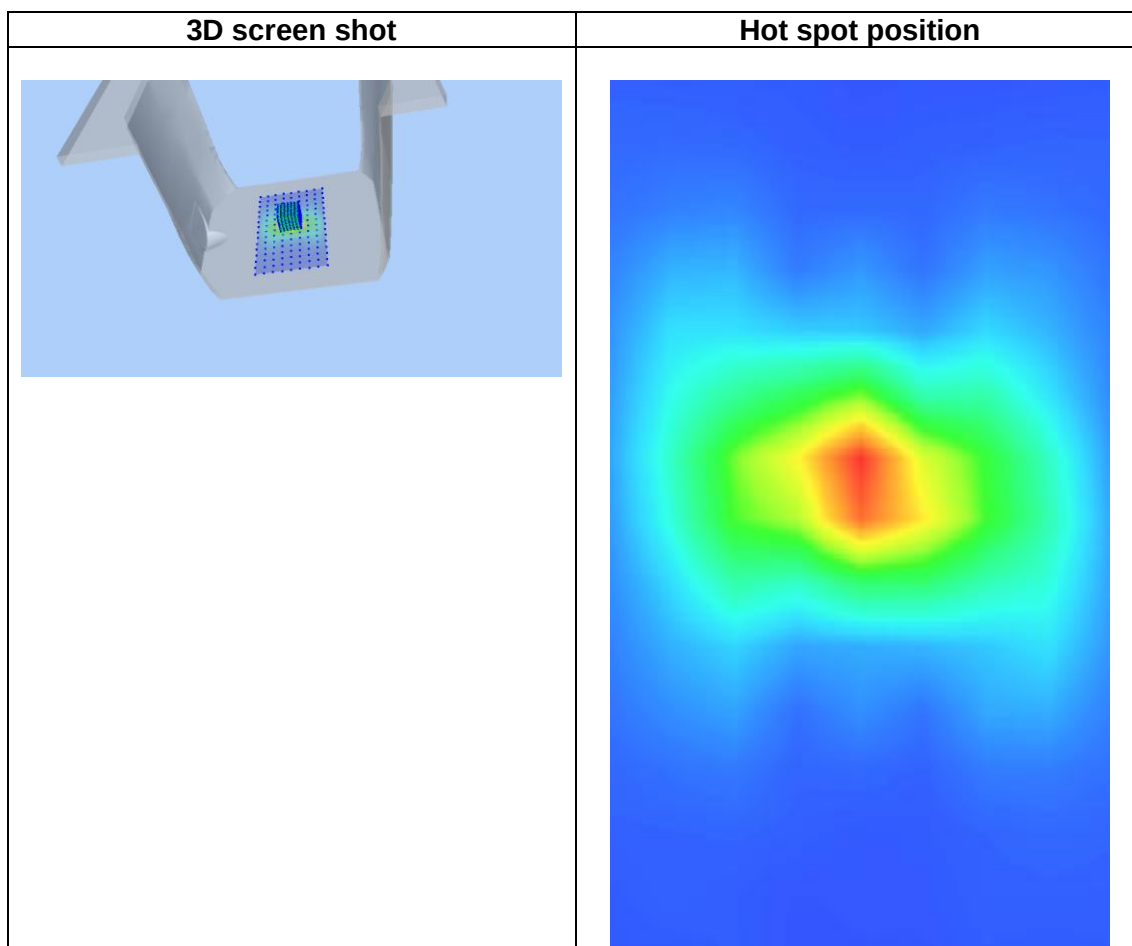
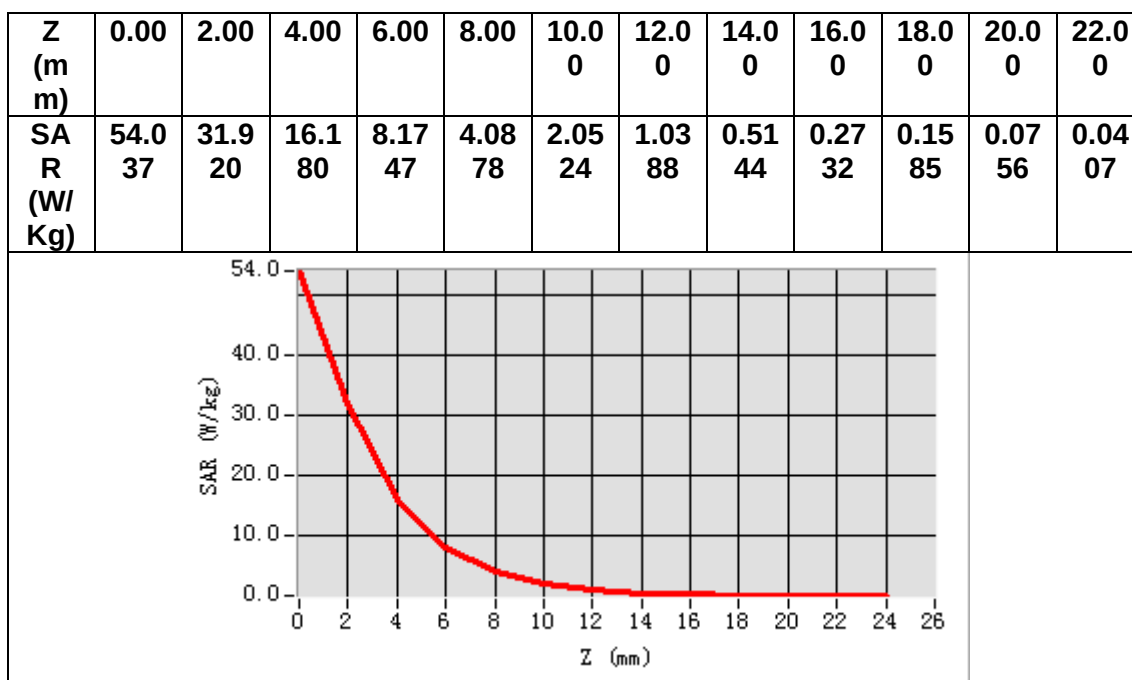
Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.157056
Relative permittivity (imaginary part)	16.182741
Conductivity (S/m)	5.214439
Variation (%)	-0.630000



Maximum location: X=0.00, Y=6.00

SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	5.727102
SAR 1g (W/Kg)	16.414336



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

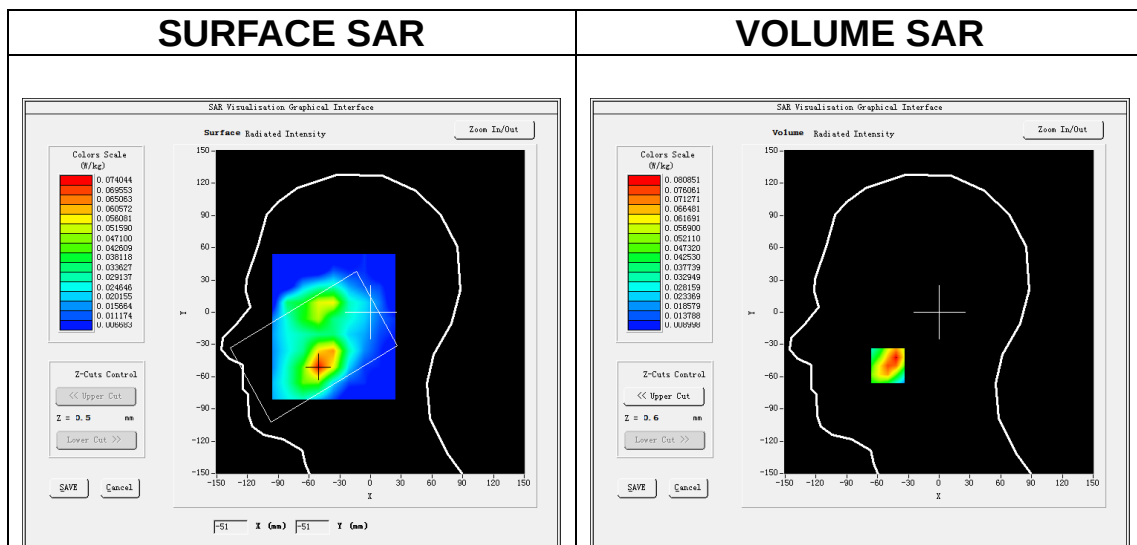
Date of measurement: 26/11/2024

A. Experimental conditions.

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

B. SAR Measurement Results

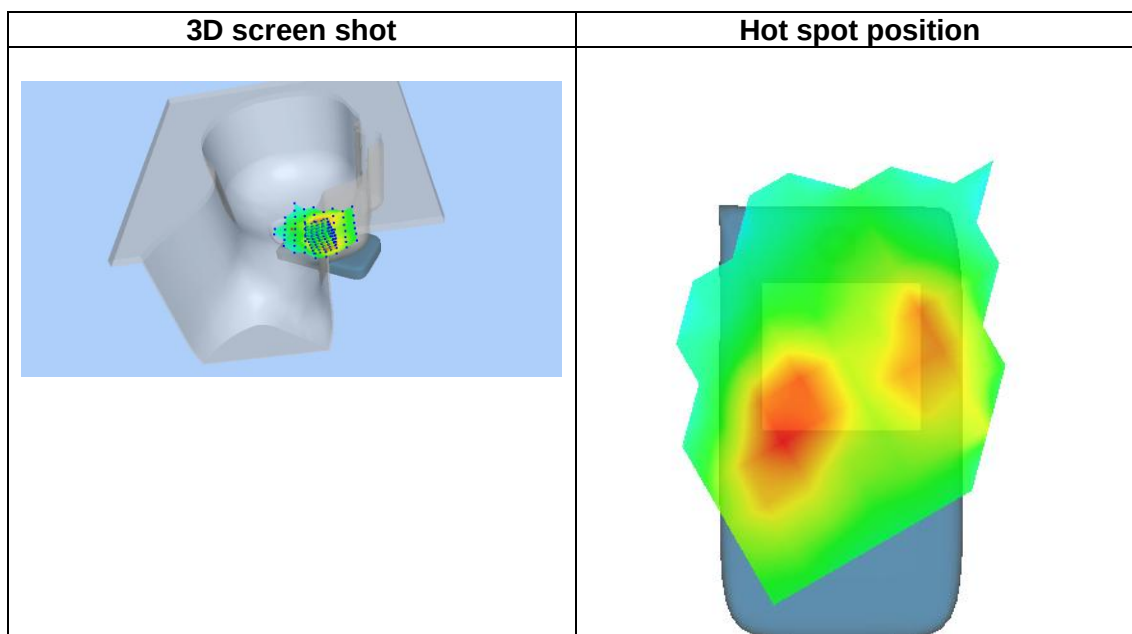
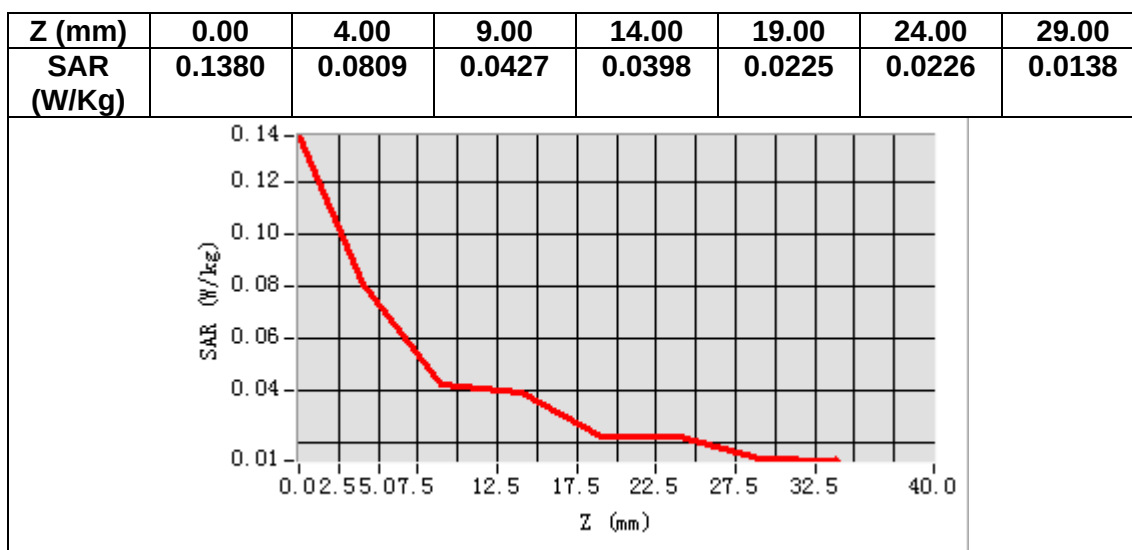
Frequency (MHz)	836.400000
Relative permittivity (real part)	41.850227
Relative permittivity (imaginary part)	19.736071
Conductivity (S/m)	0.917069
Variation (%)	0.430000



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

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.048034
SAR 1g (W/Kg)	0.076456



MEASUREMENT 2

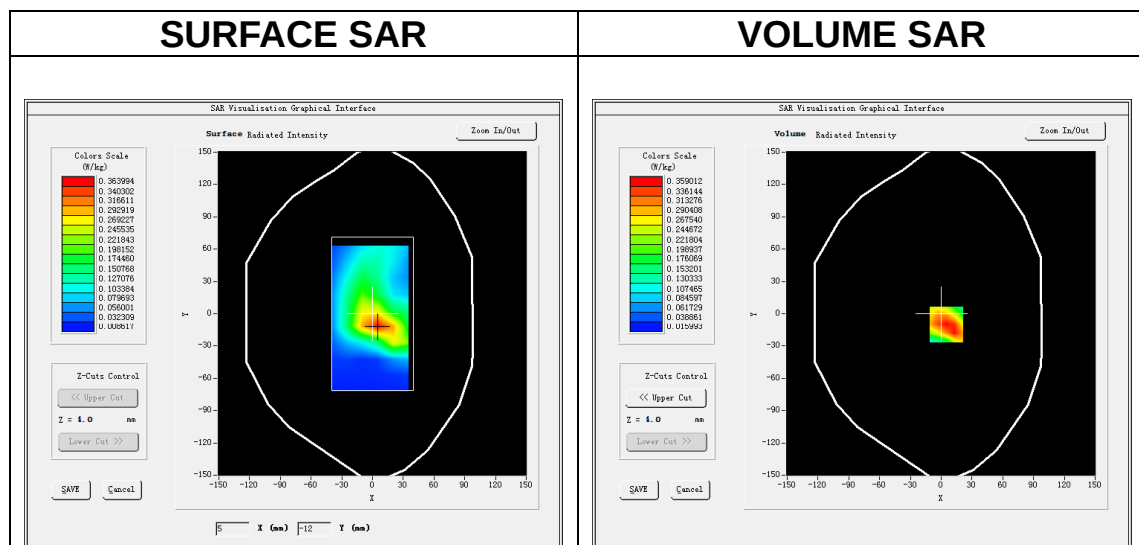
Date of measurement: 26/11/2024

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

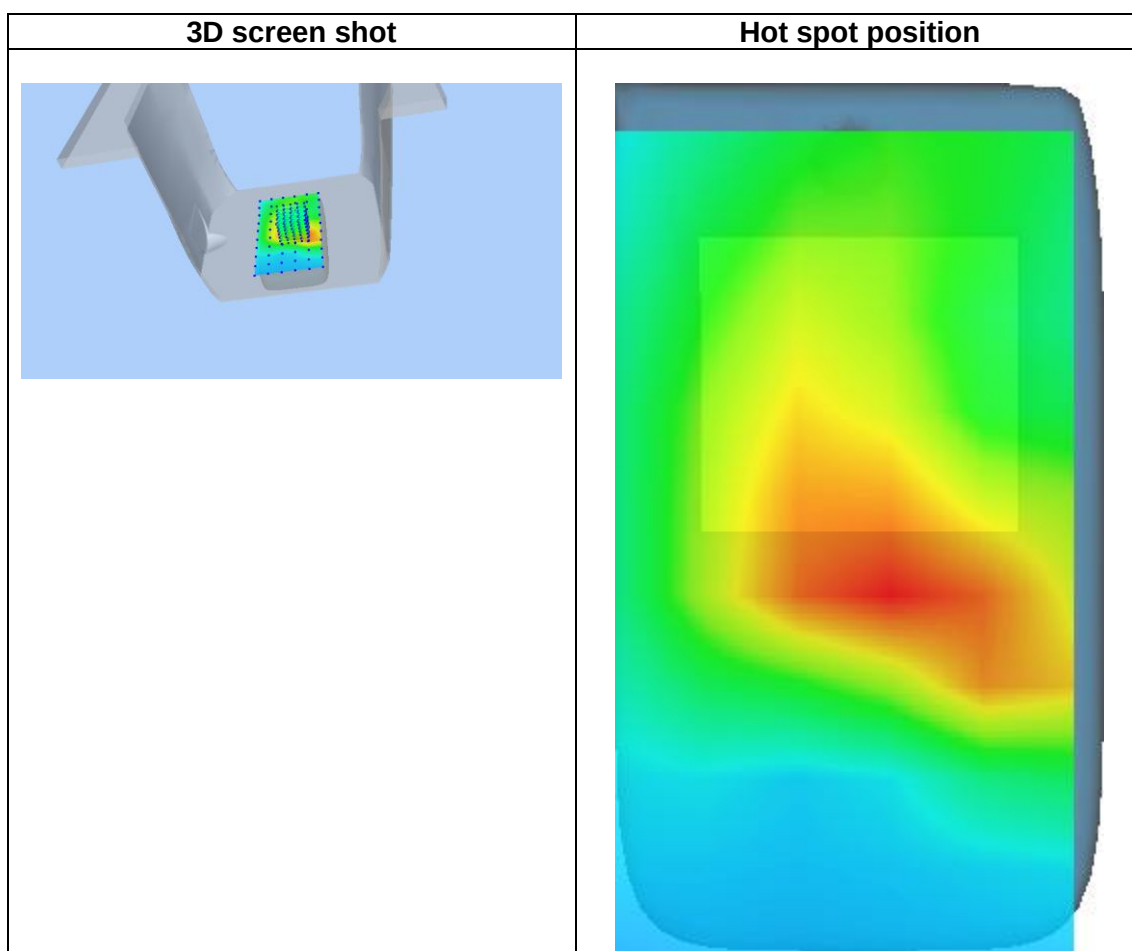
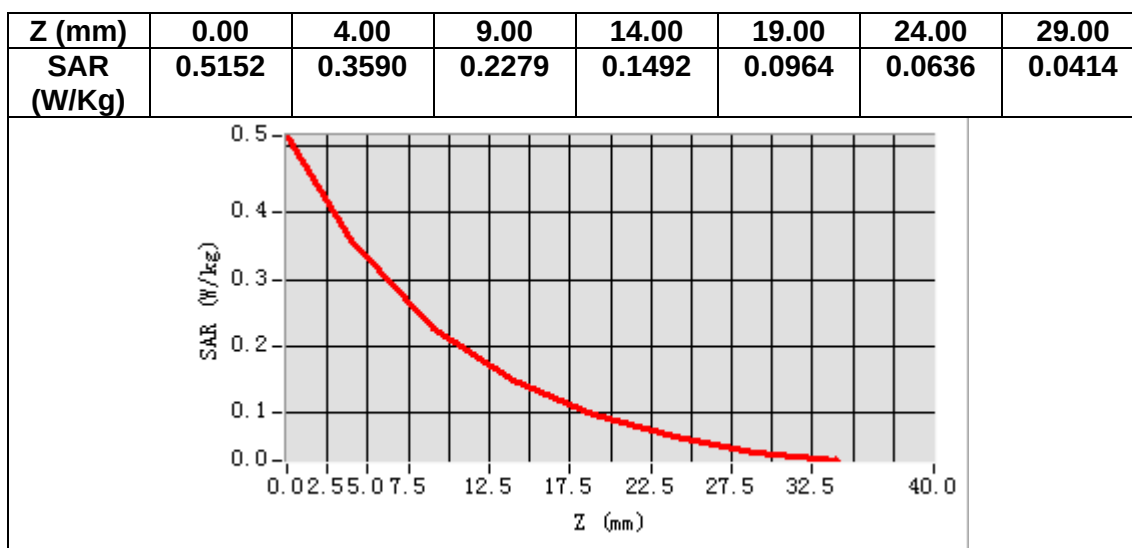
Frequency (MHz)	836.400000
Relative permittivity (real part)	41.850227
Relative permittivity (imaginary part)	19.736071
Conductivity (S/m)	0.917069
Variation (%)	-0.480000



Maximum location: X=5.00, Y=-10.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.202950
SAR 1g (W/Kg)	0.352295



MEASUREMENT 3

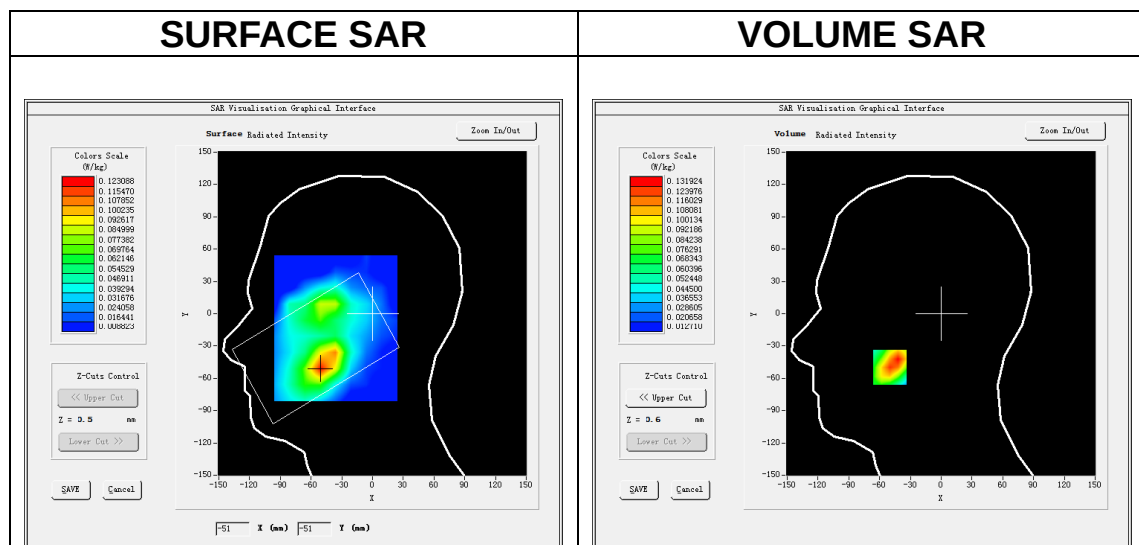
Date of measurement: 24/11/2024

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>GSM1800</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 8.0)</u>
ConvF	<u>2.51</u>

B. SAR Measurement Results

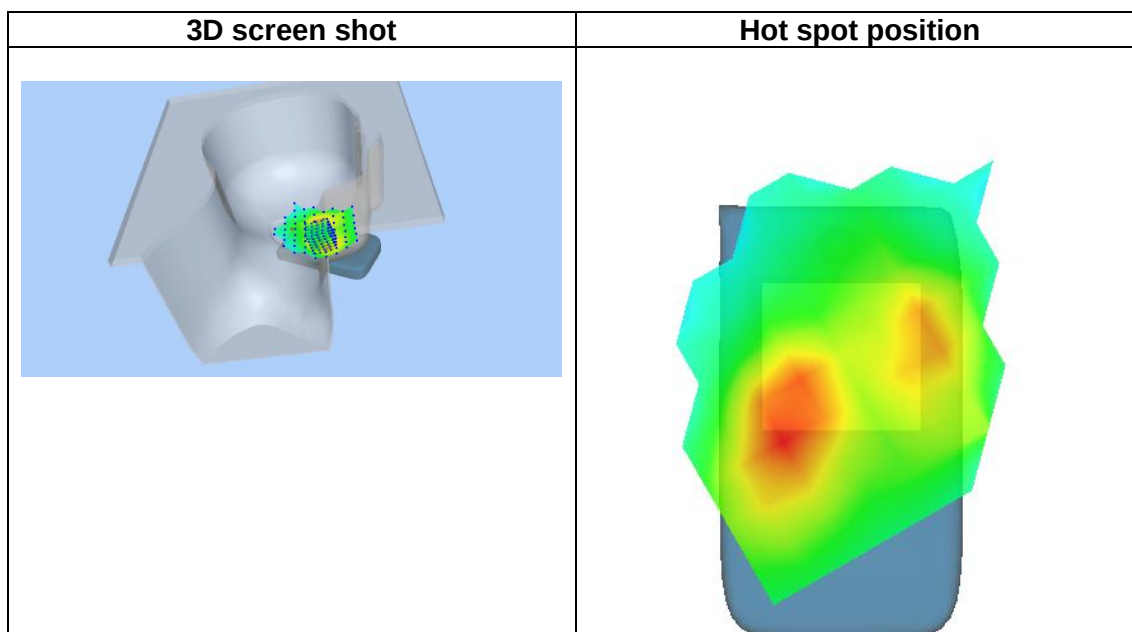
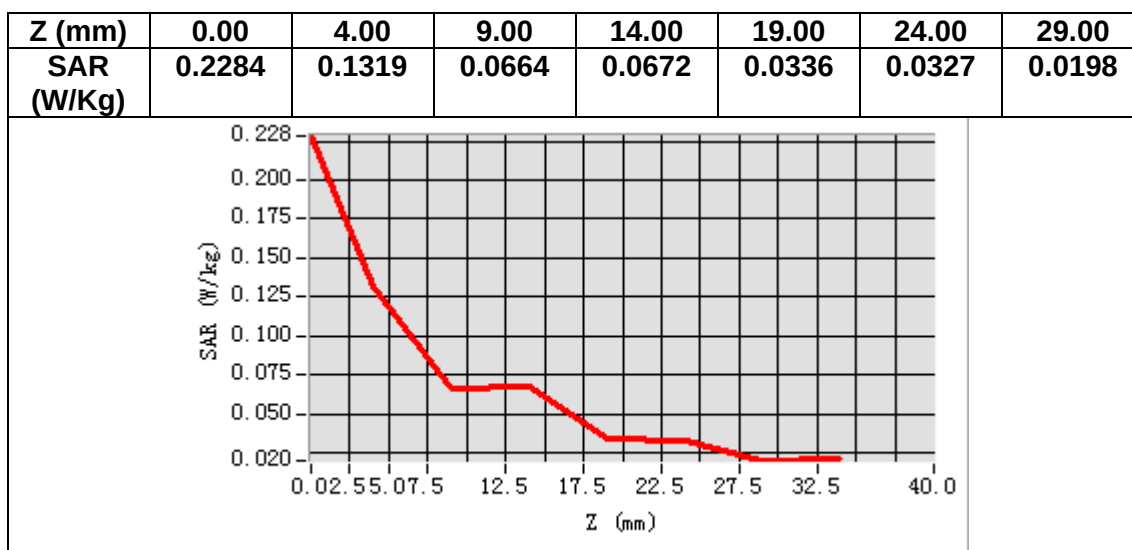
Frequency (MHz)	1747.400024
Relative permittivity (real part)	39.579685
Relative permittivity (imaginary part)	13.950343
Conductivity (S/m)	1.354268
Variation (%)	2.410000



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

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.077027
SAR 1g (W/Kg)	0.123302



MEASUREMENT 4

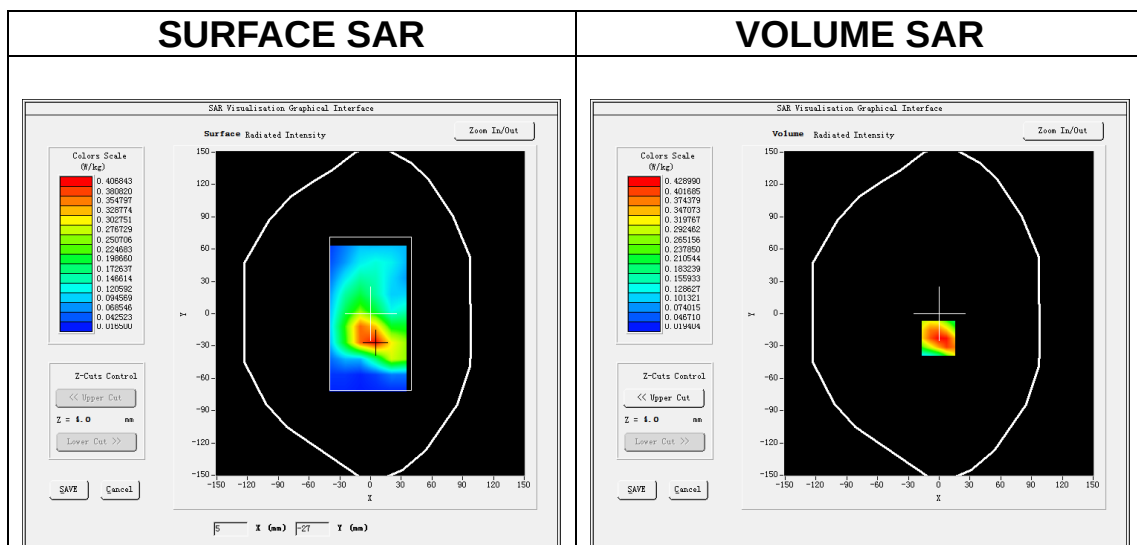
Date of measurement: 24/11/2024

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>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 8.0)</u>
<u>ConvF</u>	<u>2.51</u>

B. SAR Measurement Results

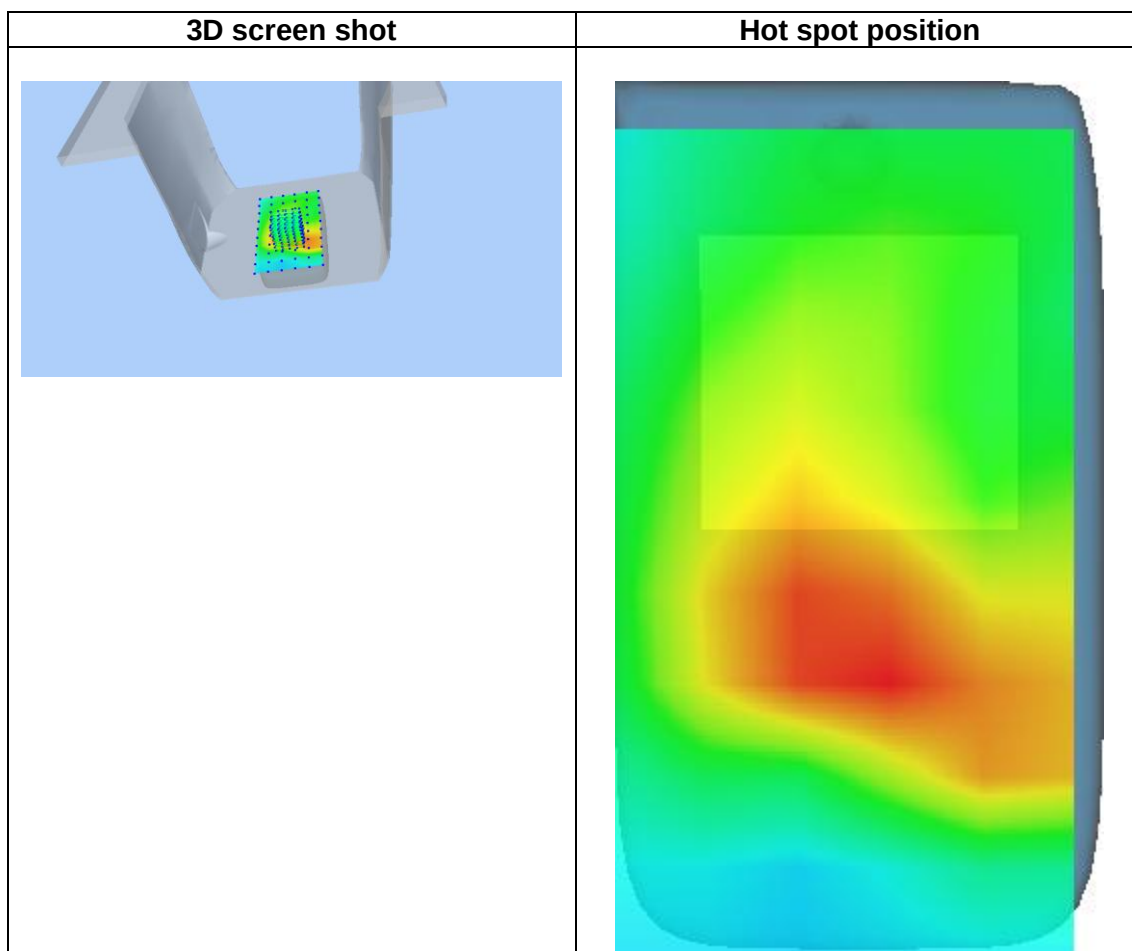
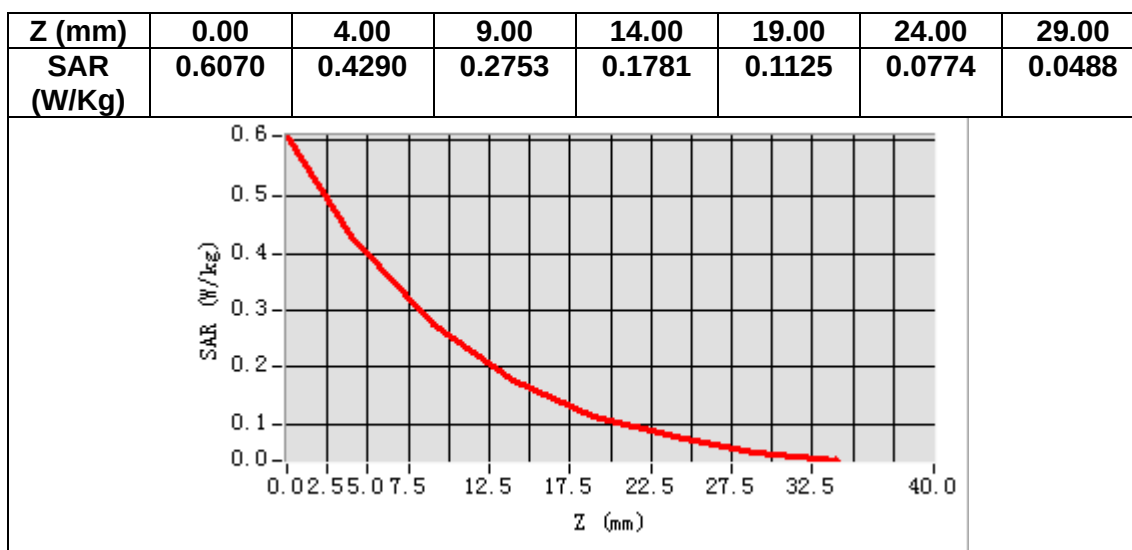
Frequency (MHz)	1747.400024
Relative permittivity (real part)	39.579685
Relative permittivity (imaginary part)	13.950343
Conductivity (S/m)	1.354268
Variation (%)	-2.260000



Maximum location: X=-1.00, Y=-23.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.243139
SAR 1g (W/Kg)	0.413555



MEASUREMENT 5

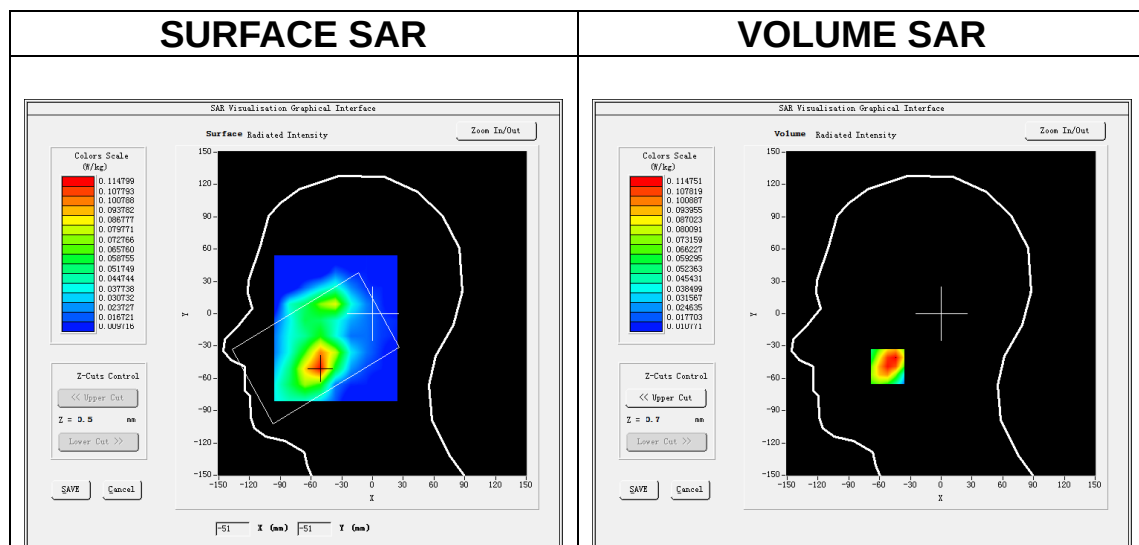
Date of measurement: 24/11/2024

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>Band2 WCDMA1900</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>2.57</u>

B. SAR Measurement Results

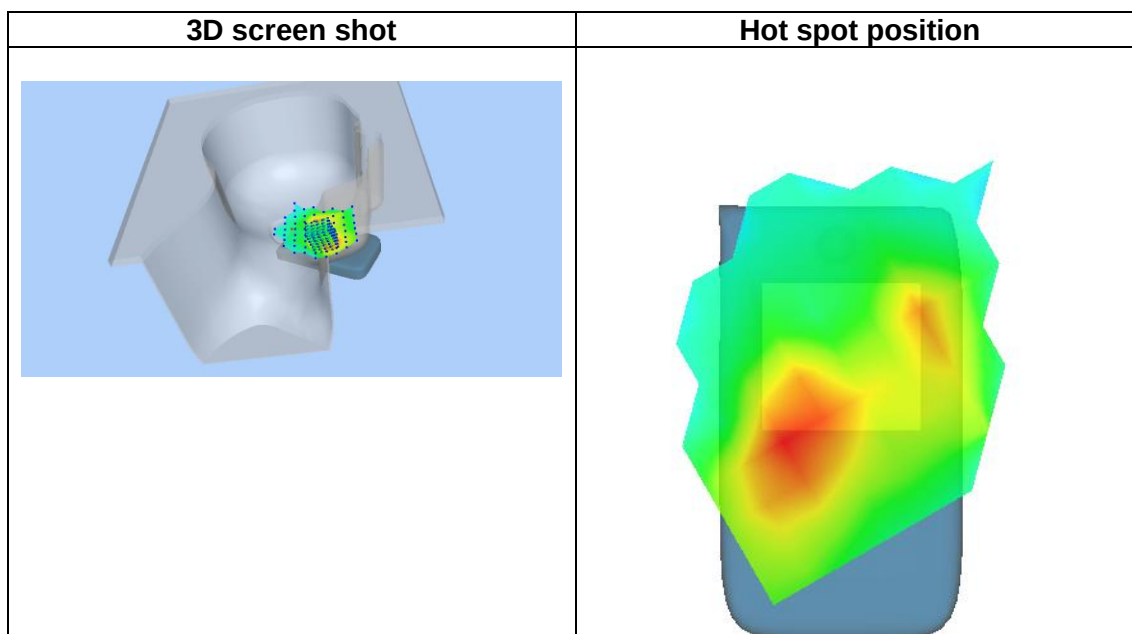
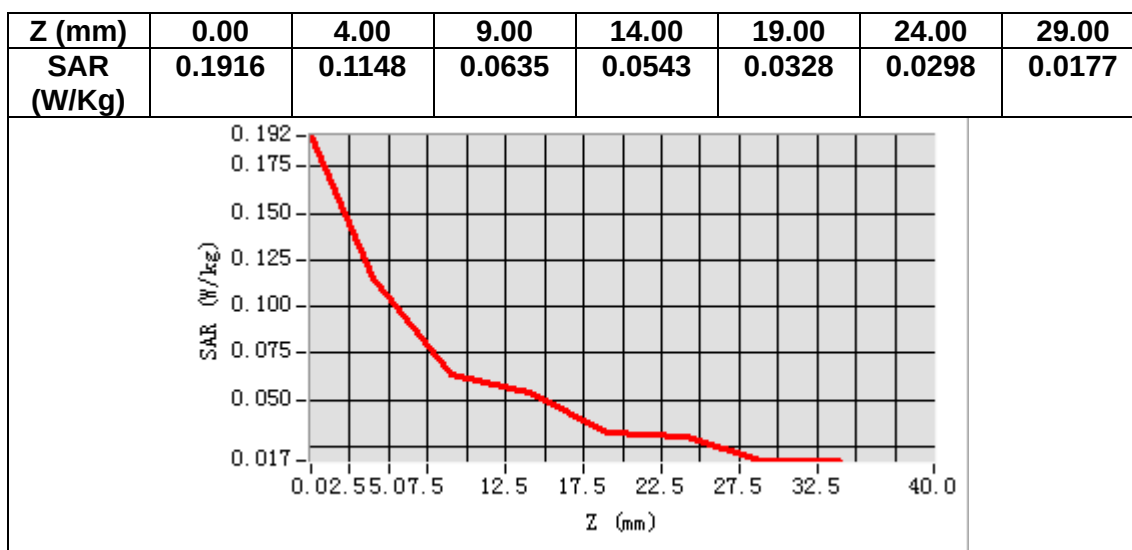
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.415112
Relative permittivity (imaginary part)	13.697431
Conductivity (S/m)	1.430621
Variation (%)	1.720000



Maximum location: X=-52.00, Y=-49.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.070239
SAR 1g (W/Kg)	0.112666



MEASUREMENT 6

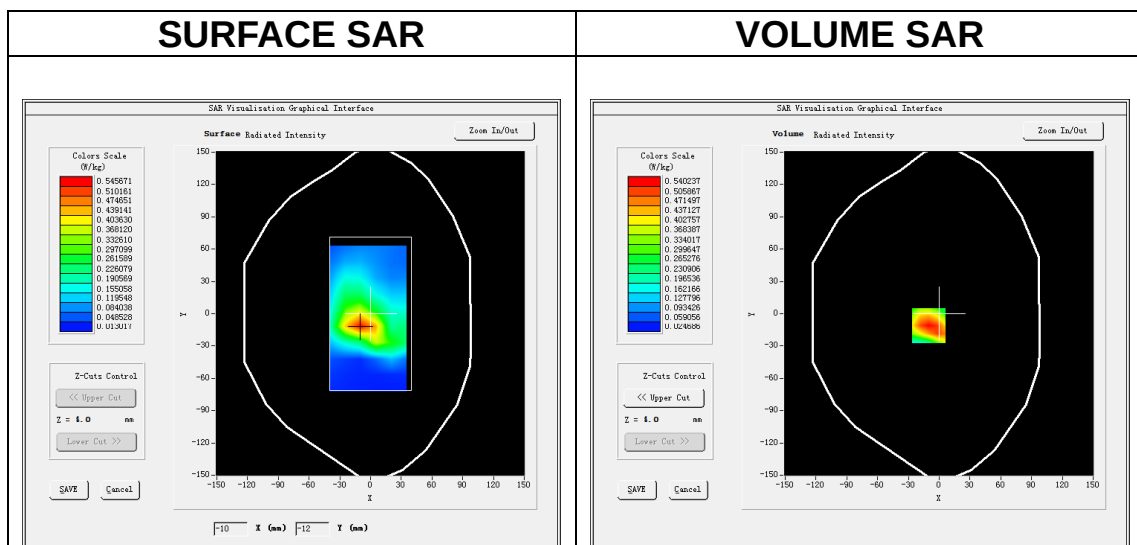
Date of measurement: 24/11/2024

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

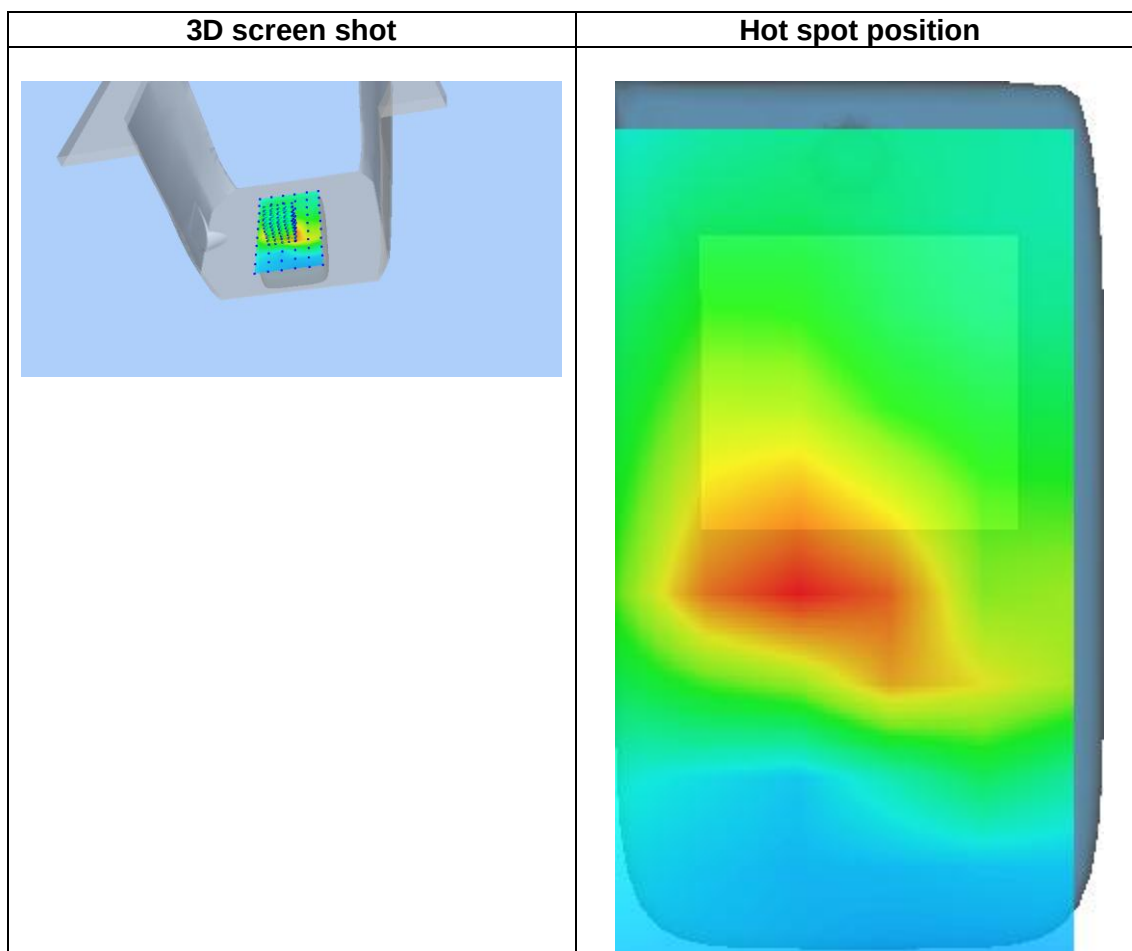
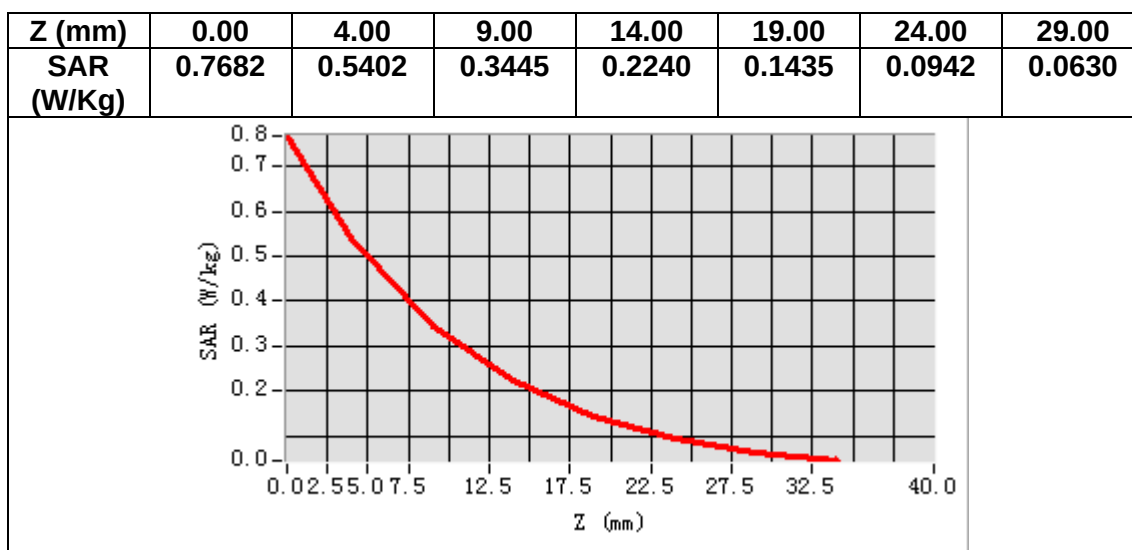
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.415112
Relative permittivity (imaginary part)	13.697431
Conductivity (S/m)	1.430621
Variation (%)	0.240000



Maximum location: X=-10.00, Y=-11.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.305878
SAR 1g (W/Kg)	0.525779



MEASUREMENT 7

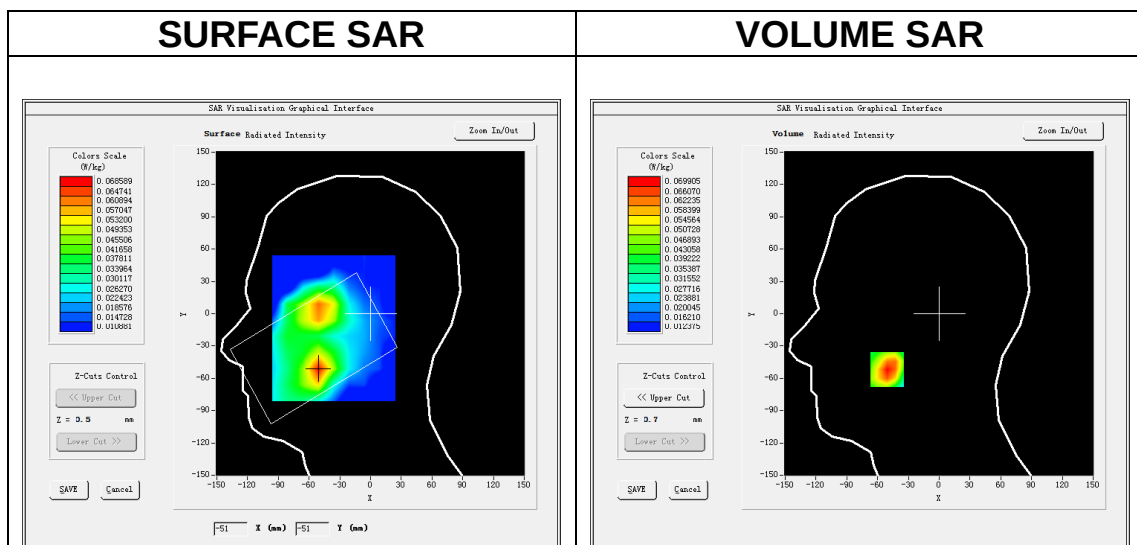
Date of measurement: 21/11/2024

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band4 WCDMA1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
ConvF	2.51

B. SAR Measurement Results

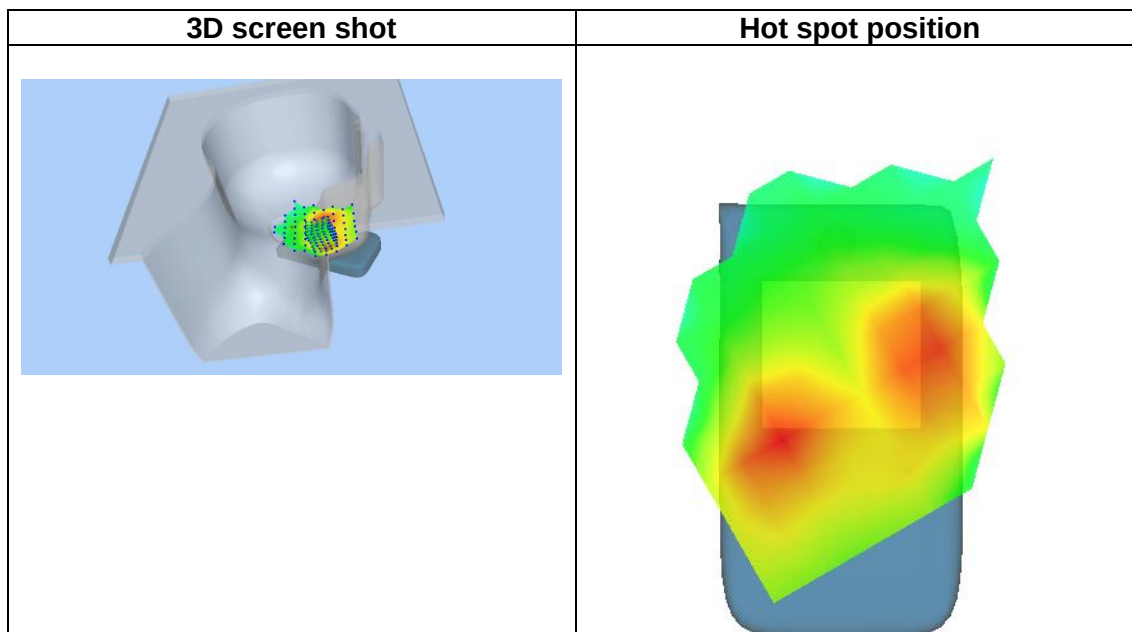
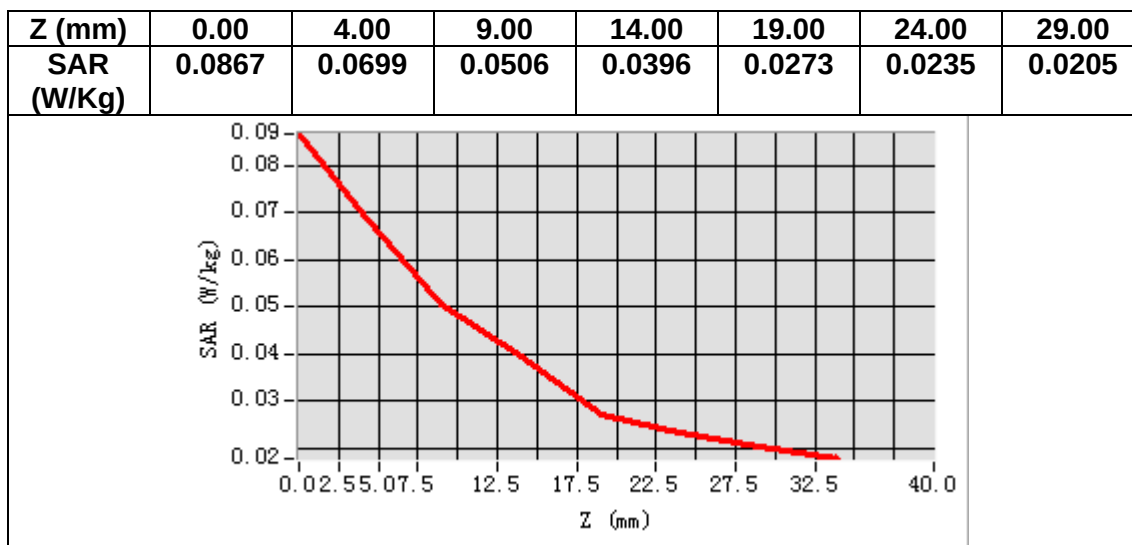
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.684925
Relative permittivity (imaginary part)	13.934763
Conductivity (S/m)	1.340834
Variation (%)	-0.960000



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

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.044259
SAR 1g (W/Kg)	0.066466



MEASUREMENT 8

Date of measurement: 21/11/2024

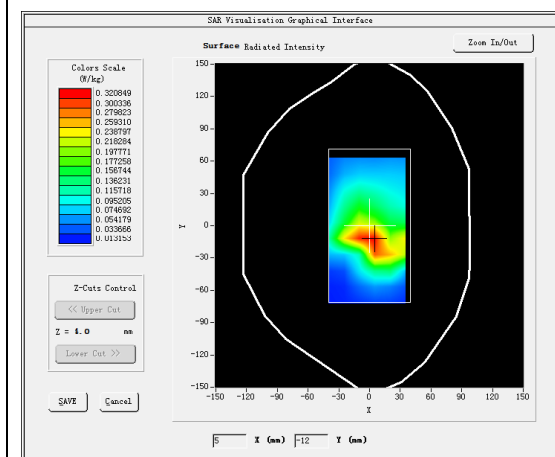
A. Experimental conditions.

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>Body</u>
Band	<u>Band4 WCDMA1700</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

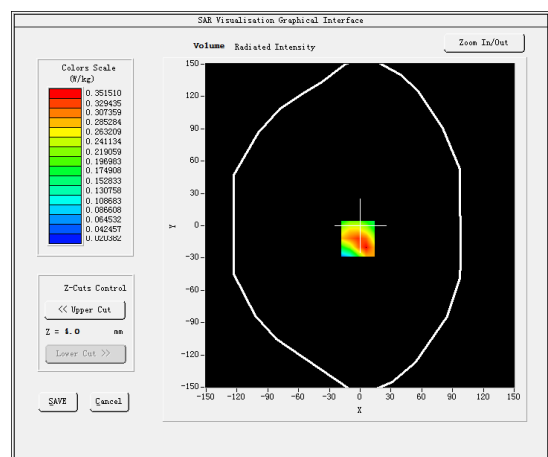
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.684925
Relative permittivity (imaginary part)	13.934763
Conductivity (S/m)	1.340834
Variation (%)	0.850000

SURFACE SAR



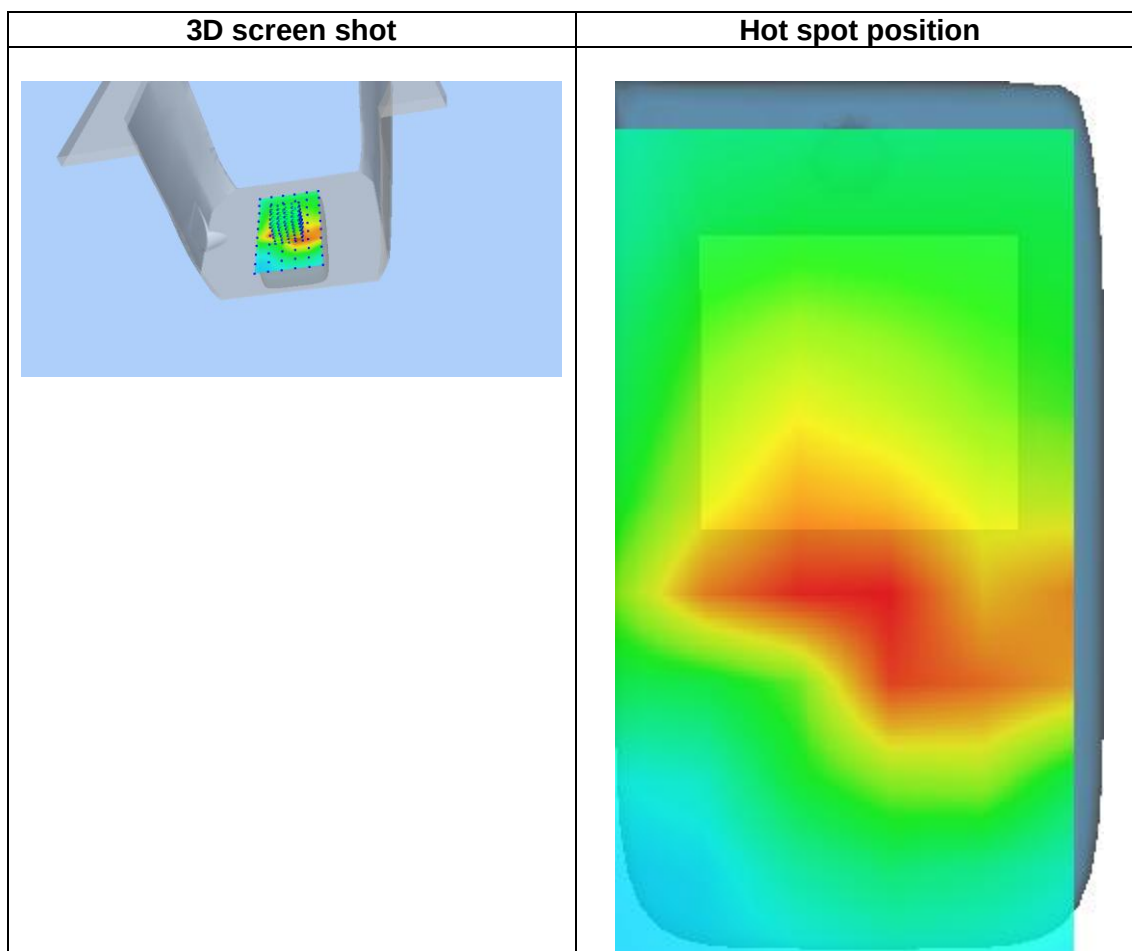
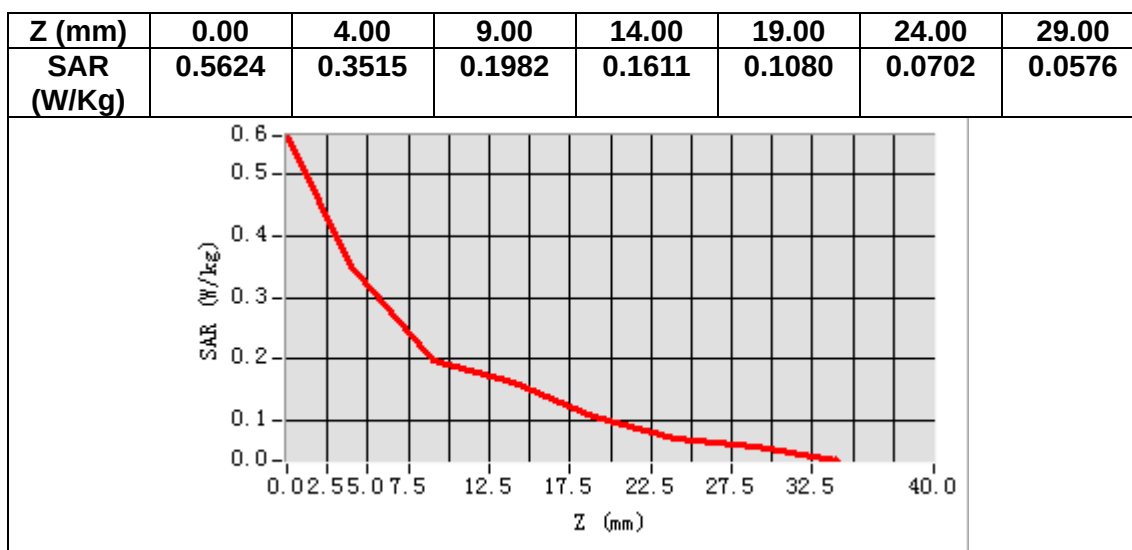
VOLUME SAR



Maximum location: X=-2.00, Y=-12.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.200835
SAR 1g (W/Kg)	0.329927



MEASUREMENT 9

Date of measurement: 26/11/2024

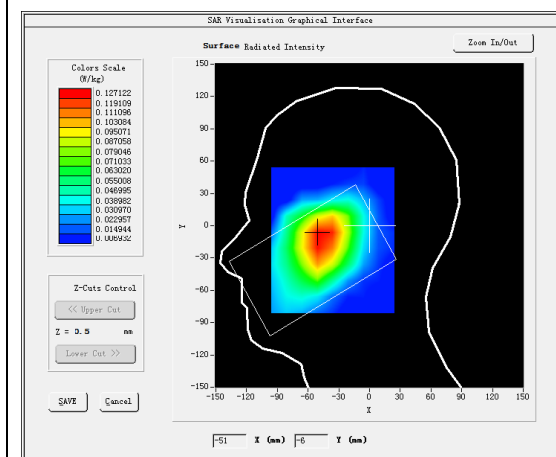
A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band5 WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
ConvF	2.34

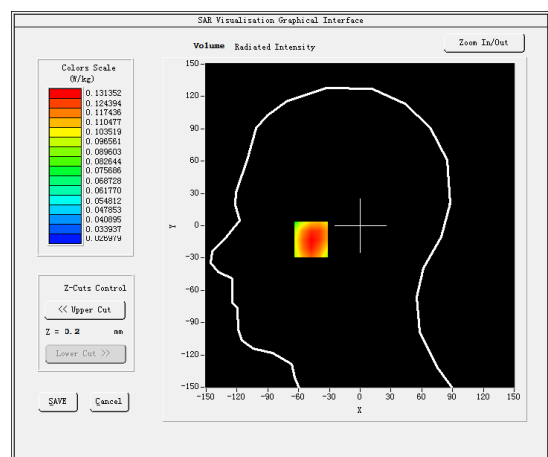
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.850227
Relative permittivity (imaginary part)	19.736071
Conductivity (S/m)	0.917069
Variation (%)	-0.550000

SURFACE SAR



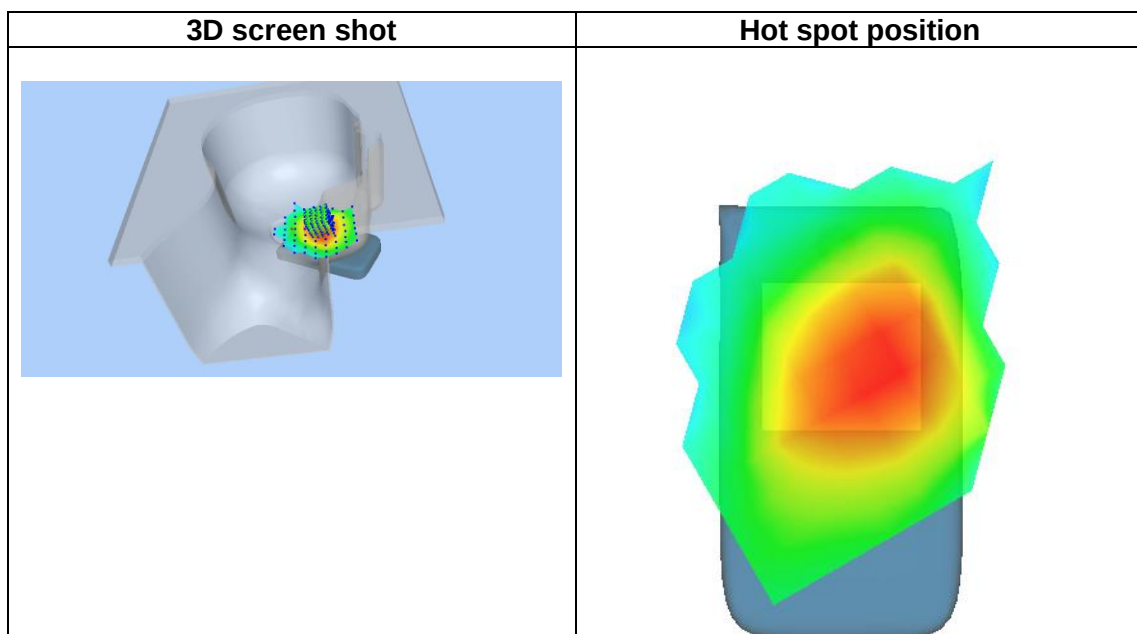
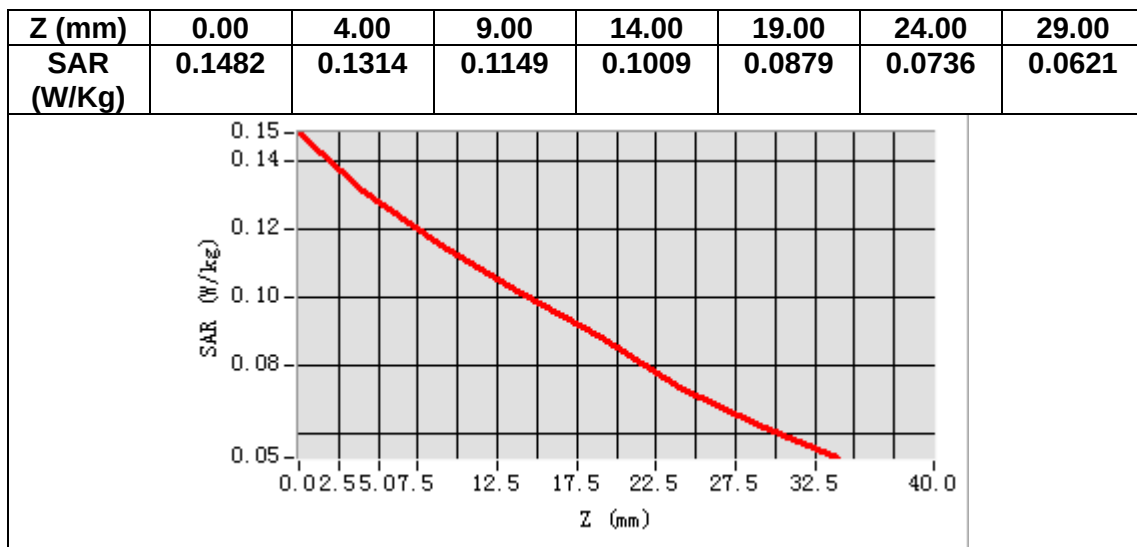
VOLUME SAR



Maximum location: X=-48.00, Y=-11.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.105705
SAR 1g (W/Kg)	0.130369



MEASUREMENT 10

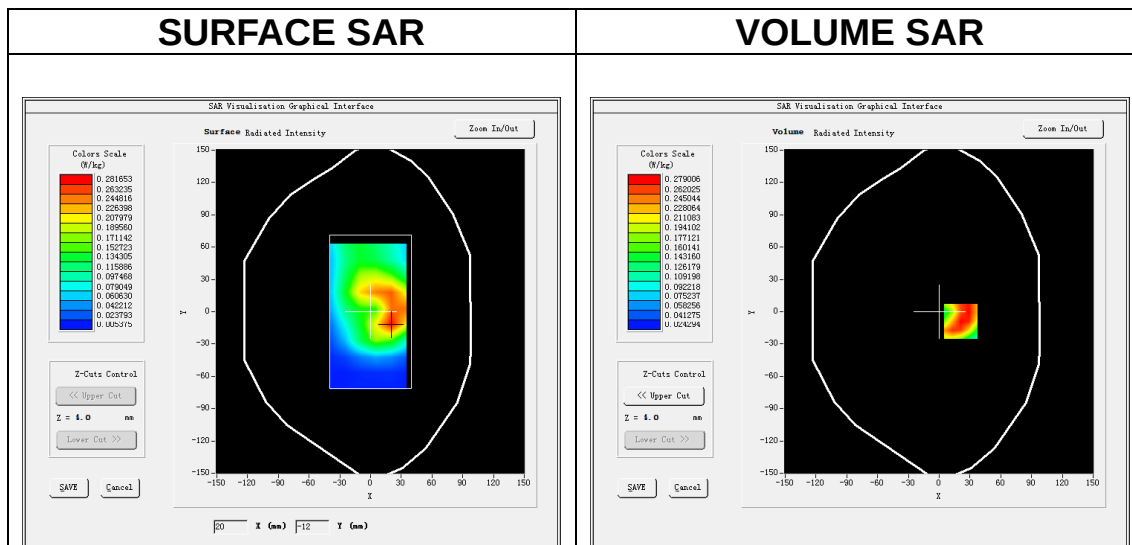
Date of measurement: 26/11/2024

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

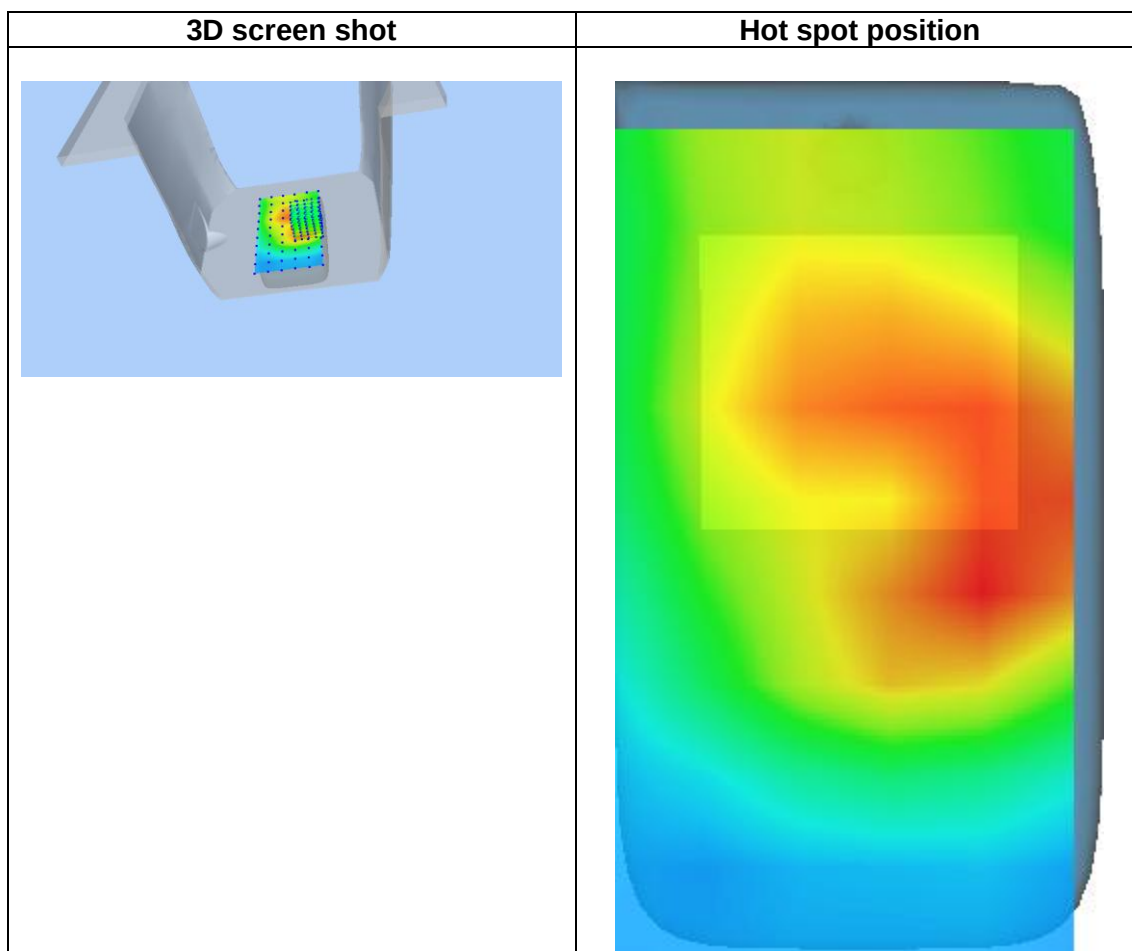
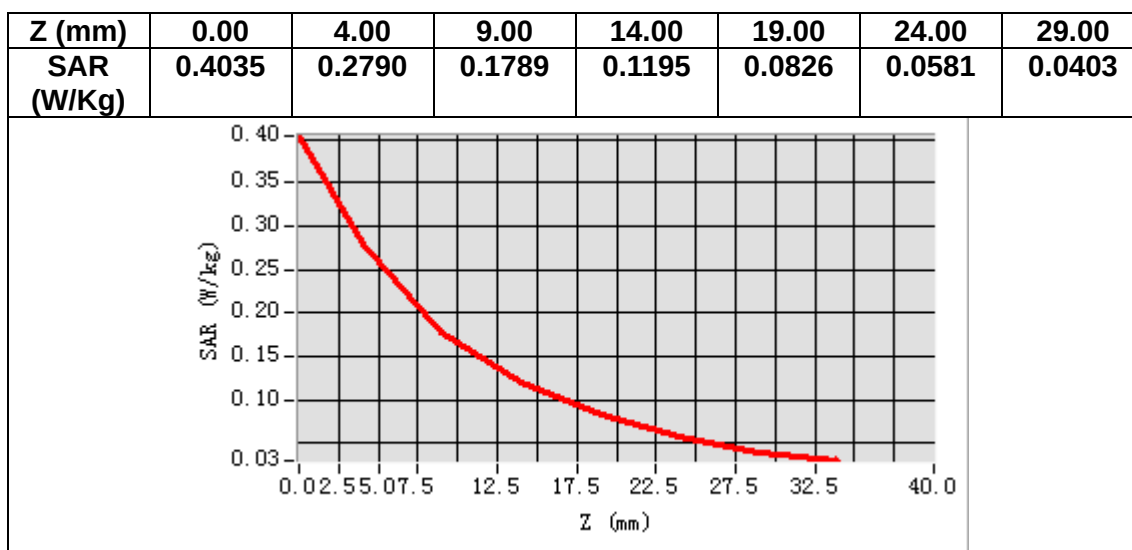
Frequency (MHz)	836.400000
Relative permittivity (real part)	41.850227
Relative permittivity (imaginary part)	19.736071
Conductivity (S/m)	0.917069
Variation (%)	1.070000



Maximum location: X=21.00, Y=-9.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.172040
SAR 1g (W/Kg)	0.274791



MEASUREMENT 11

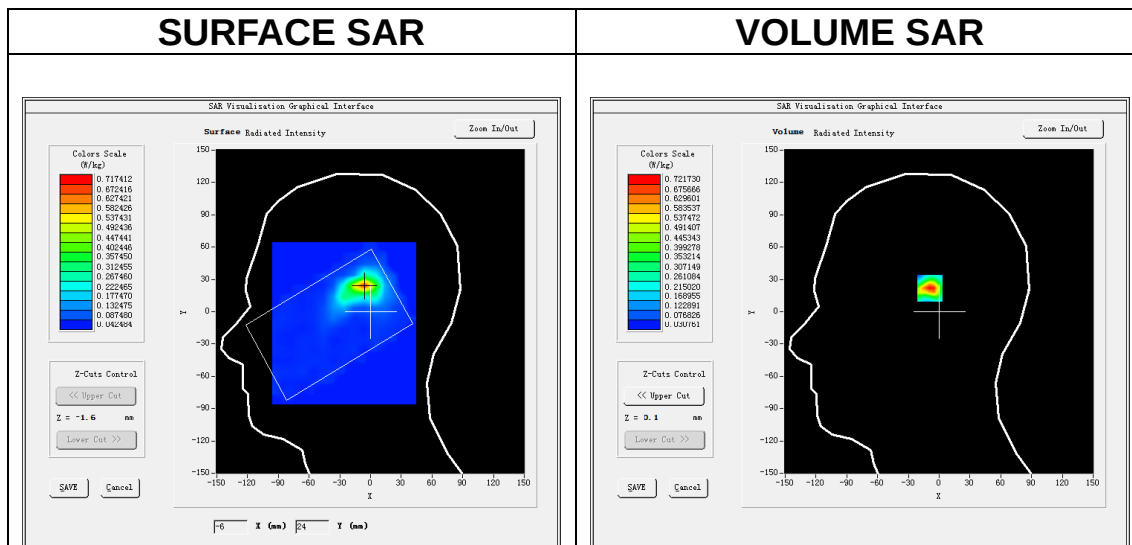
Date of measurement: 19/11/2024

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

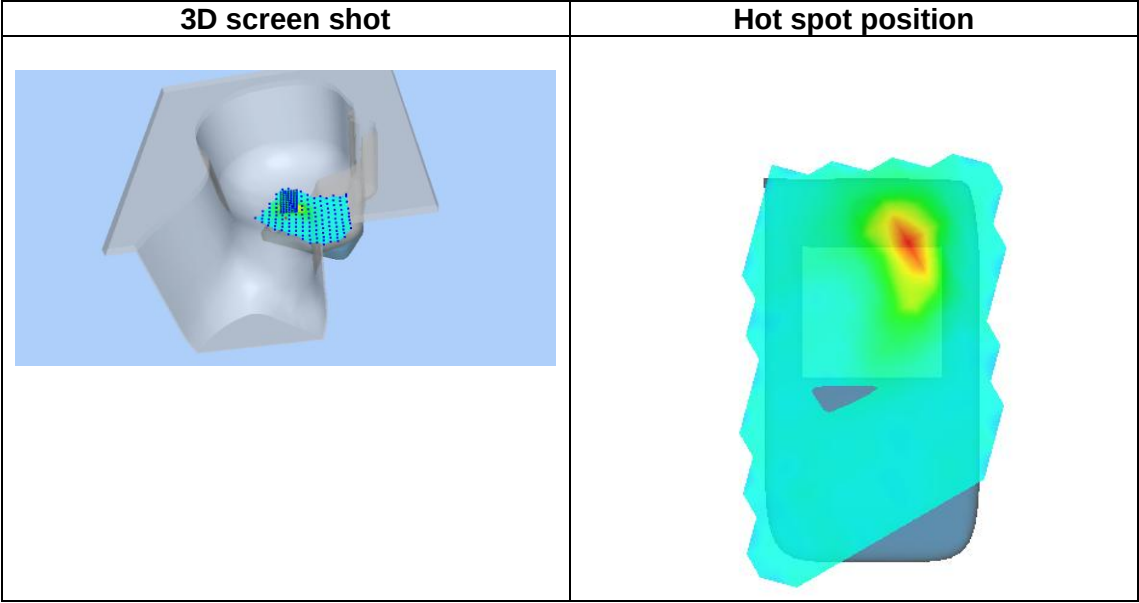
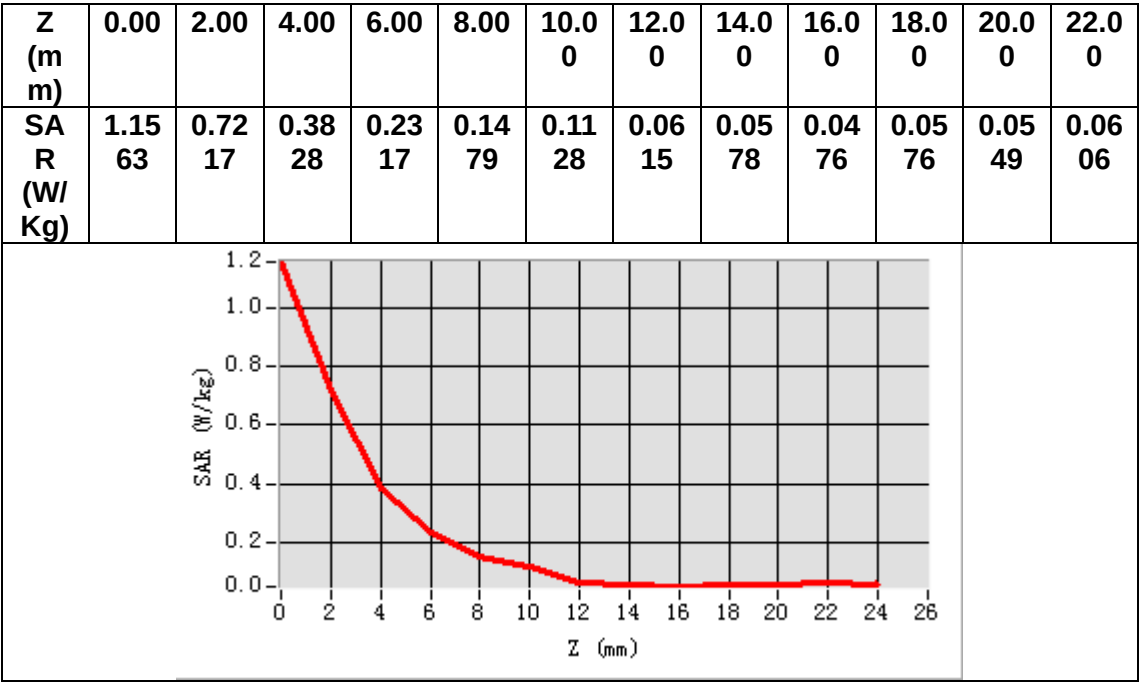
Frequency (MHz)	5180.000000
Relative permittivity (real part)	34.612484
Relative permittivity (imaginary part)	15.678512
Conductivity (S/m)	4.529348
Variation (%)	2.379999



Maximum location: X=-6.00, Y=24.00

SAR Peak: 1.78 W/kg

SAR 10g (W/Kg)	0.246032
SAR 1g (W/Kg)	0.677600



MEASUREMENT 12

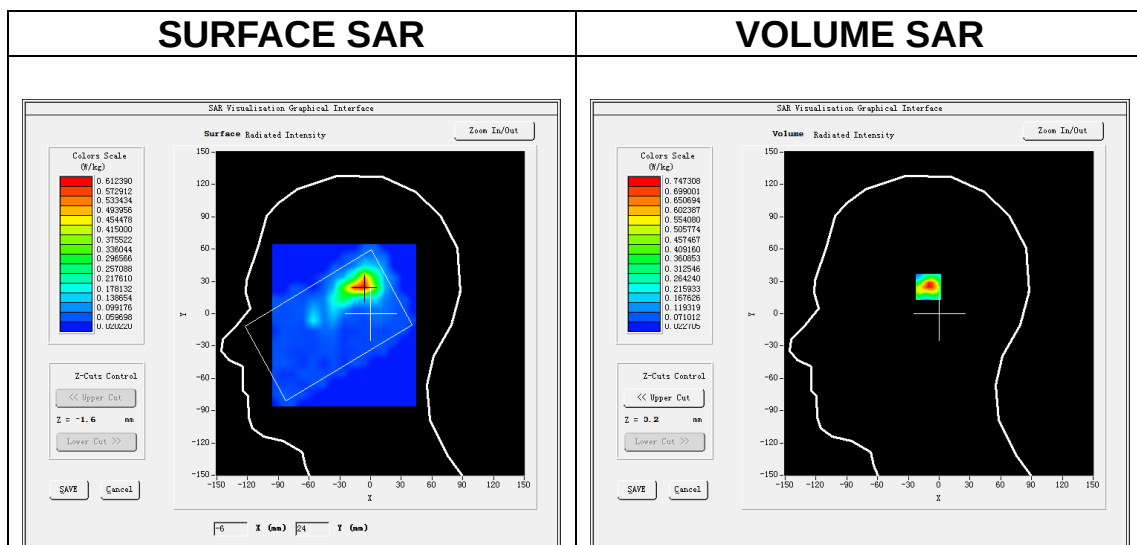
Date of measurement: 6/11/2024

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>1.97</u>

B. SAR Measurement Results

Frequency (MHz)	5600.000000
Relative permittivity (real part)	34.529835
Relative permittivity (imaginary part)	15.996151
Conductivity (S/m)	4.976580
Variation (%)	-1.100000

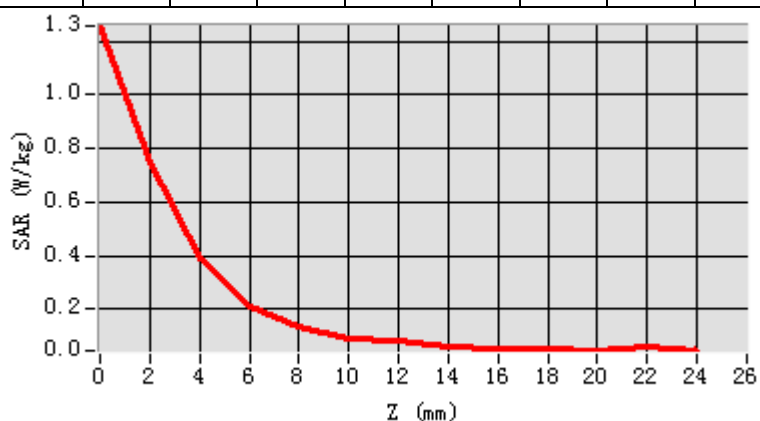


Maximum location: X=-8.00, Y=27.00

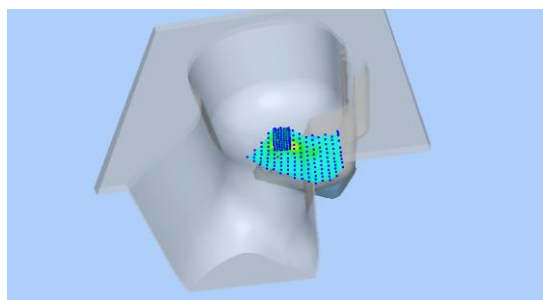
SAR Peak: 2.01 W/kg

SAR 10g (W/Kg)	0.257456
SAR 1g (W/Kg)	0.716336

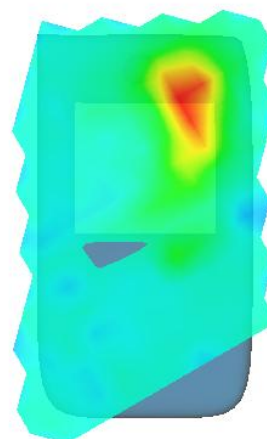
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	1.25 77	0.74 73	0.38 68	0.20 59	0.13 34	0.09 29	0.08 32	0.06 00	0.05 34	0.05 37	0.04 48	0.05 64



3D screen shot



Hot spot position



MEASUREMENT 13

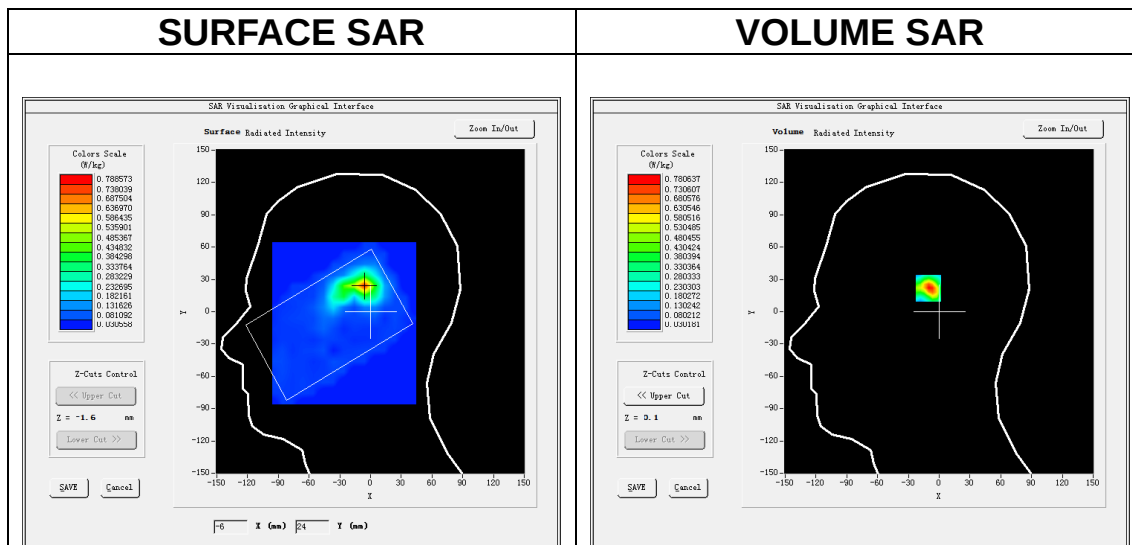
Date of measurement: 20/11/2024

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 802.11a U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11a (Crest factor: 1.0)</u>
ConvF	<u>1.88</u>

B. SAR Measurement Results

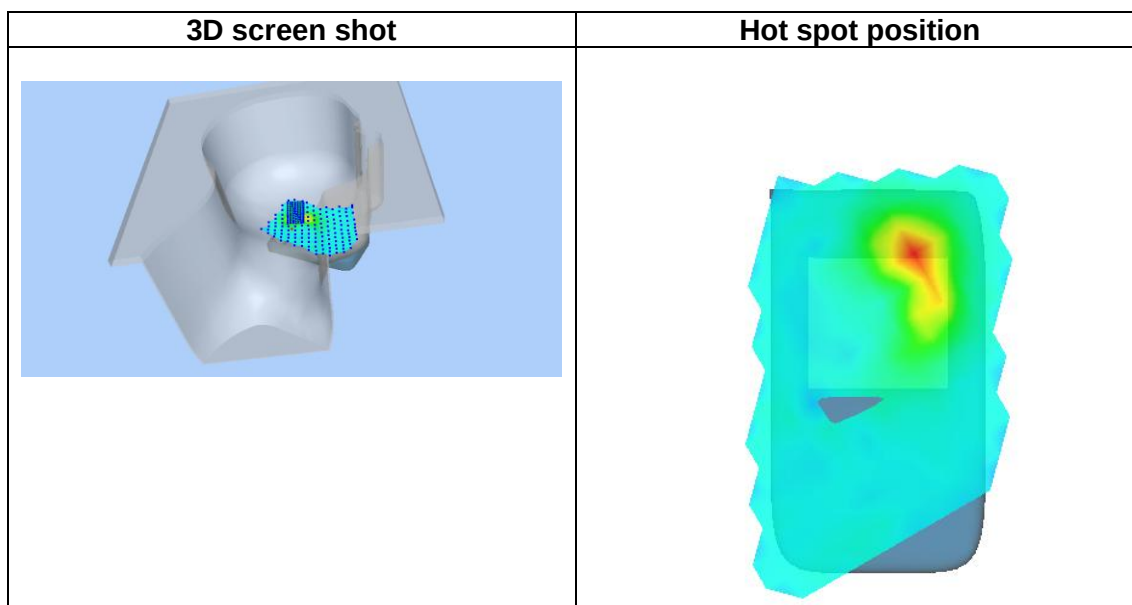
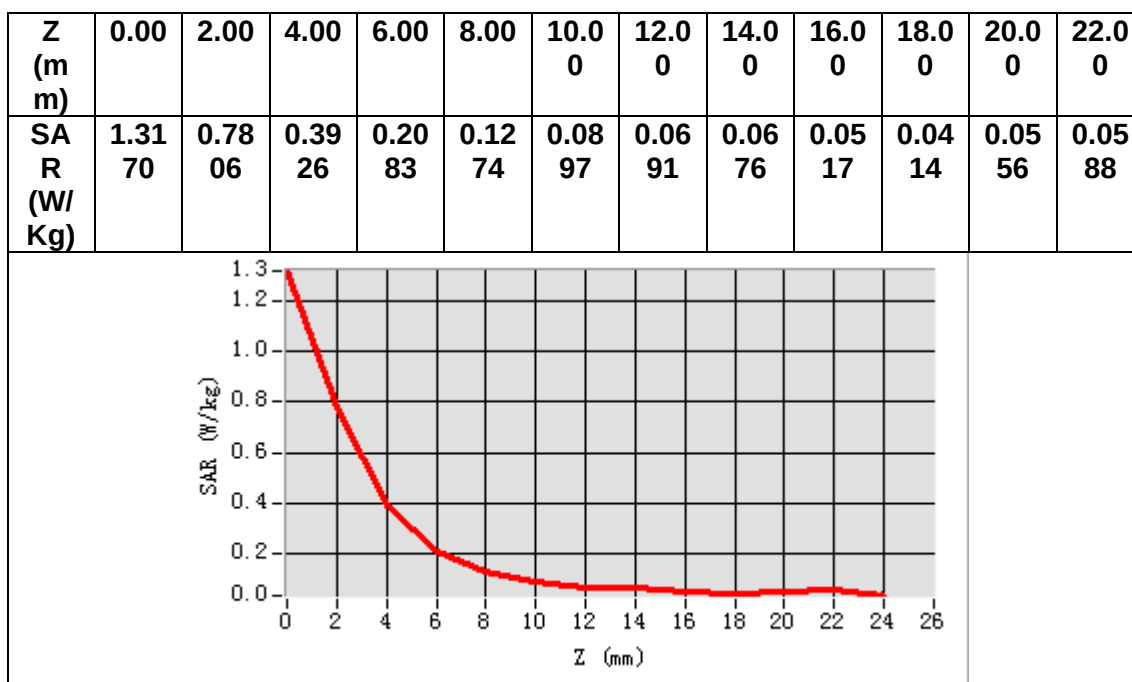
Frequency (MHz)	5600.000000
Relative permittivity (real part)	34.529835
Relative permittivity (imaginary part)	15.996151
Conductivity (S/m)	4.976580
Variation (%)	1.650000



Maximum location: X=-7.00, Y=24.00

SAR Peak: 2.11 W/kg

SAR 10g (W/Kg)	0.272065
SAR 1g (W/Kg)	0.753343



MEASUREMENT 14

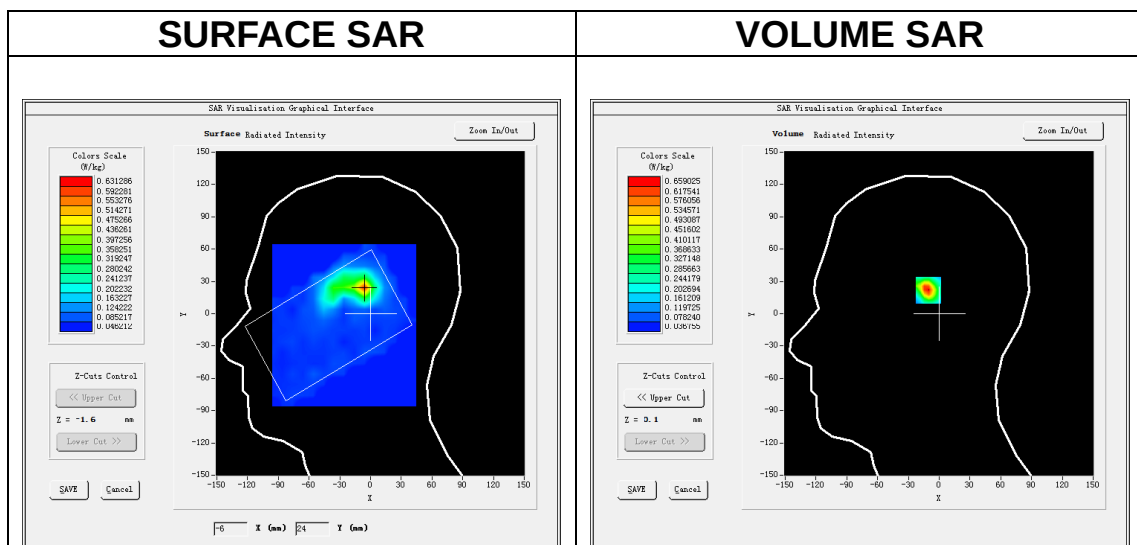
Date of measurement: 7/11/2024

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

B. SAR Measurement Results

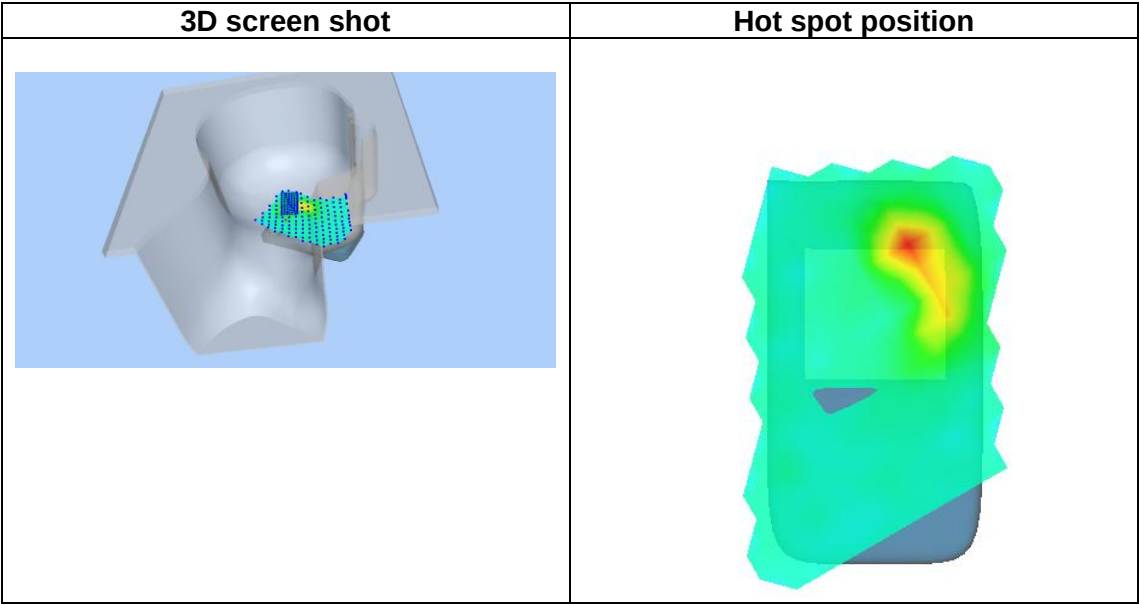
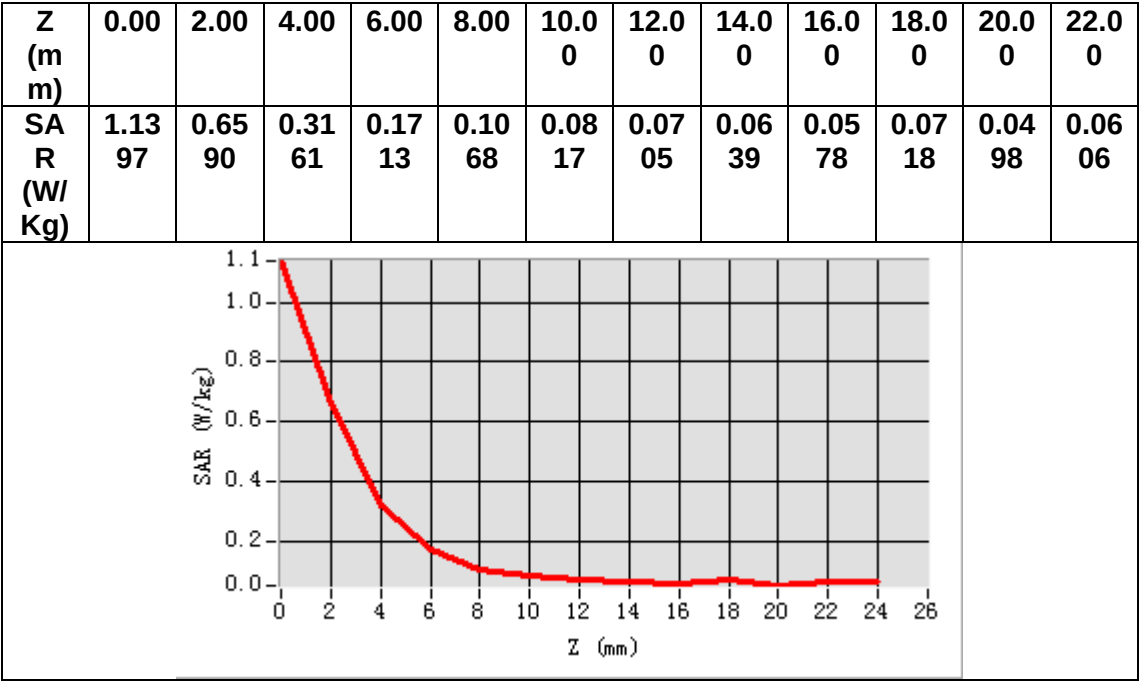
Frequency (MHz)	5795.000000
Relative permittivity (real part)	34.233006
Relative permittivity (imaginary part)	16.058298
Conductivity (S/m)	5.160959
Variation (%)	-0.770000



Maximum location: X=-7.00, Y=24.00

SAR Peak: 1.85 W/kg

SAR 10g (W/Kg)	0.236890
SAR 1g (W/Kg)	0.647814



MEASUREMENT 15

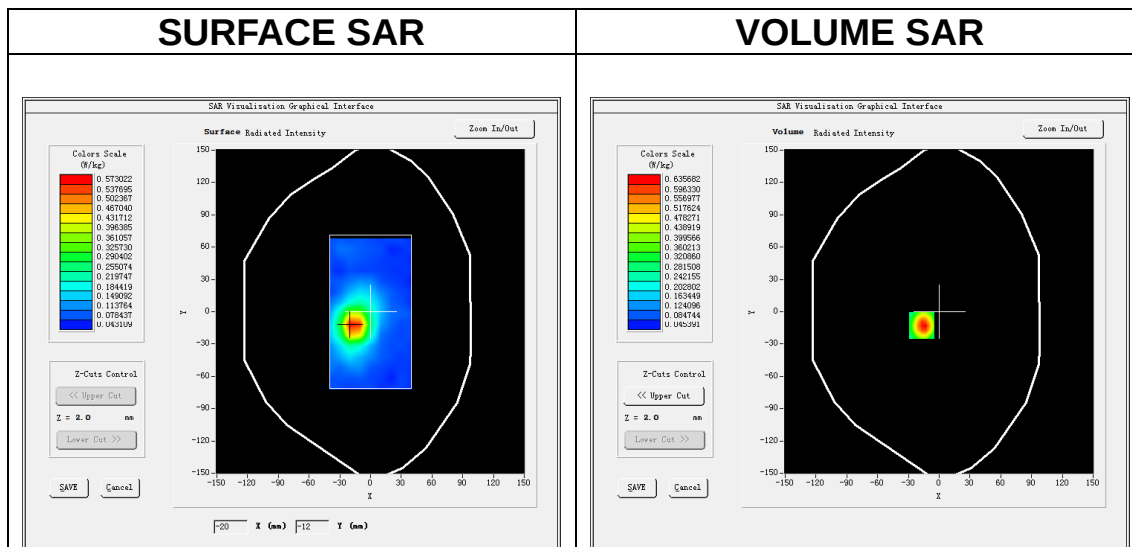
Date of measurement: 7/11/2024

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>1.90</u>

B. SAR Measurement Results

Frequency (MHz)	5795.000000
Relative permittivity (real part)	34.233006
Relative permittivity (imaginary part)	16.058298
Conductivity (S/m)	5.160959
Variation (%)	-3.050000

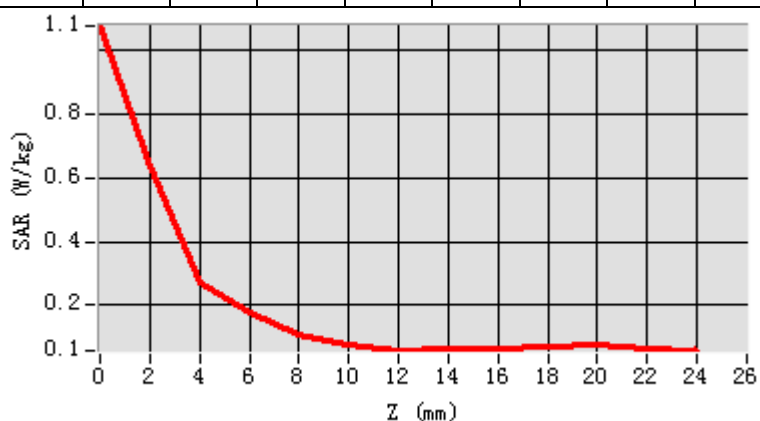


Maximum location: X=-17.00, Y=-13.00

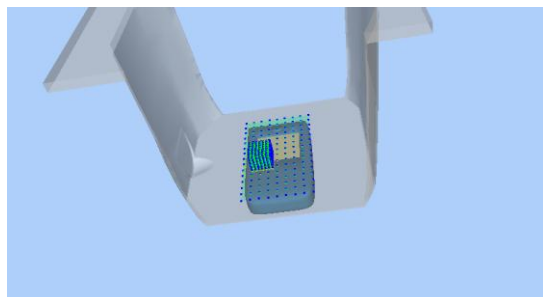
SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.180498
SAR 1g (W/Kg)	0.384838

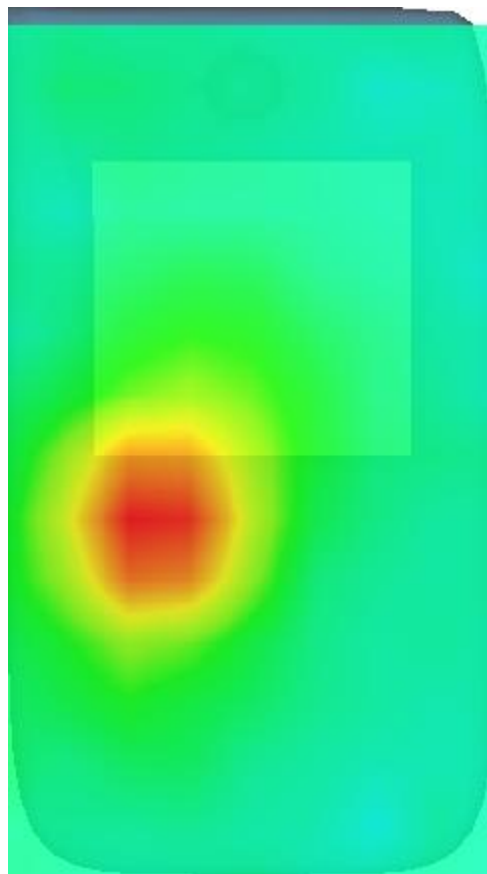
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	1.07 38	0.63 57	0.27 40	0.17 97	0.10 76	0.07 58	0.05 86	0.06 36	0.06 34	0.06 97	0.07 98	0.06 23



3D screen shot



Hot spot position



MEASUREMENT 16

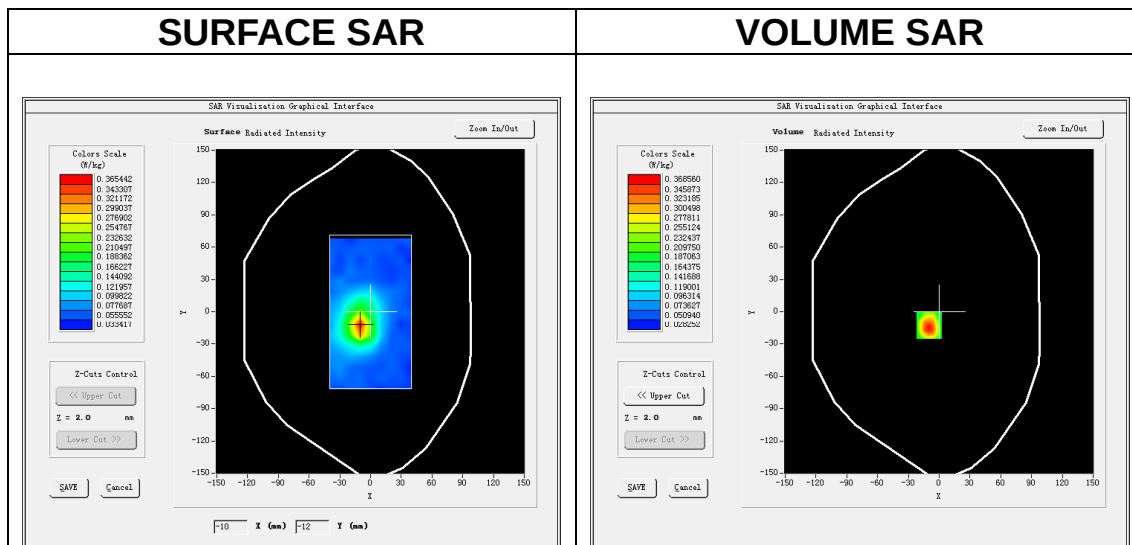
Date of measurement: 19/11/2024

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

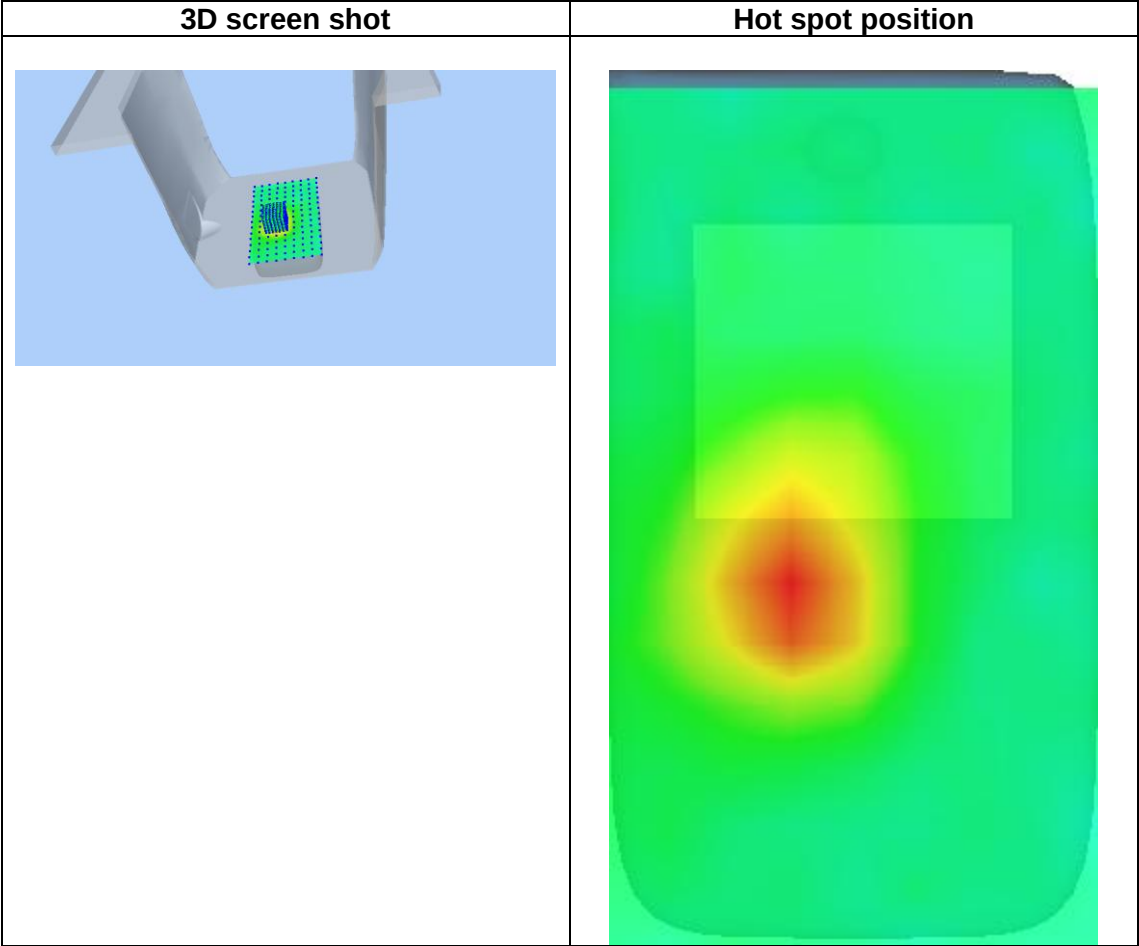
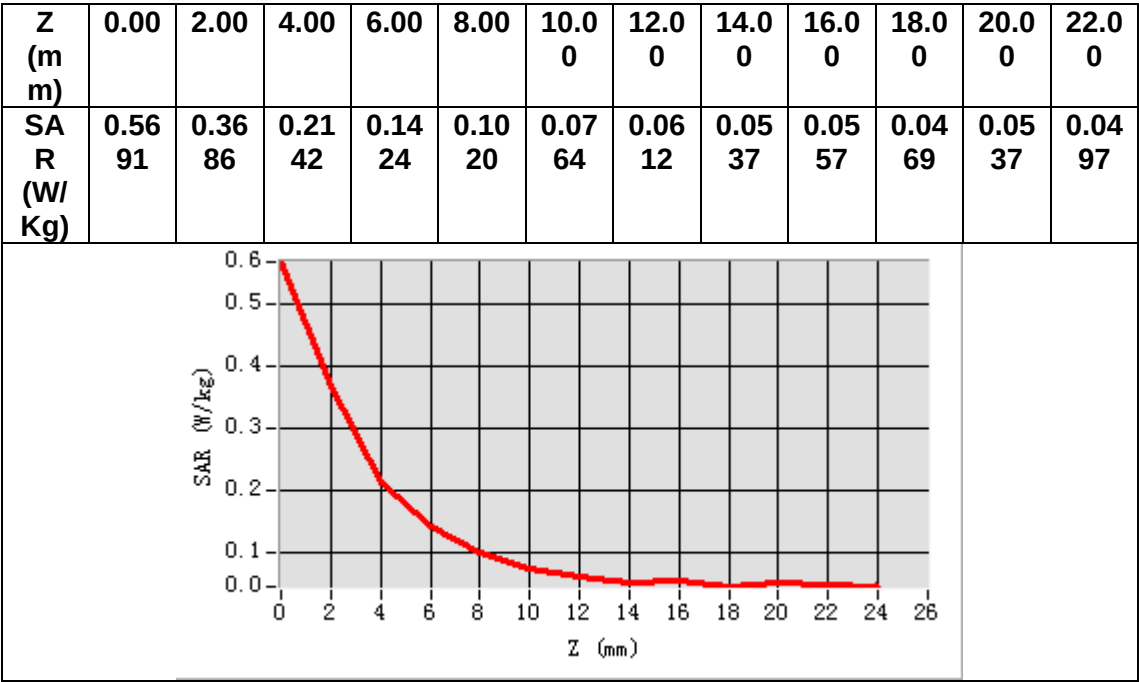
Frequency (MHz)	5180.000000
Relative permittivity (real part)	34.612484
Relative permittivity (imaginary part)	15.678512
Conductivity (S/m)	4.529348
Variation (%)	-1.030000



Maximum location: X=-10.00, Y=-13.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.120271
SAR 1g (W/Kg)	0.233998



MEASUREMENT 17

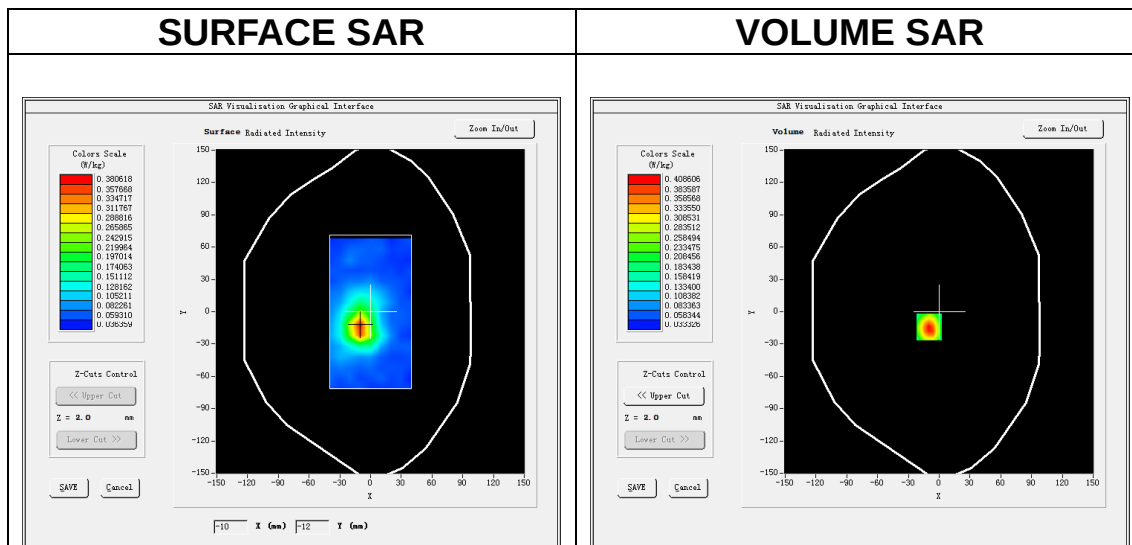
Date of measurement: 6/11/2024

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>IEEE802.11n (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.97</u>

B. SAR Measurement Results

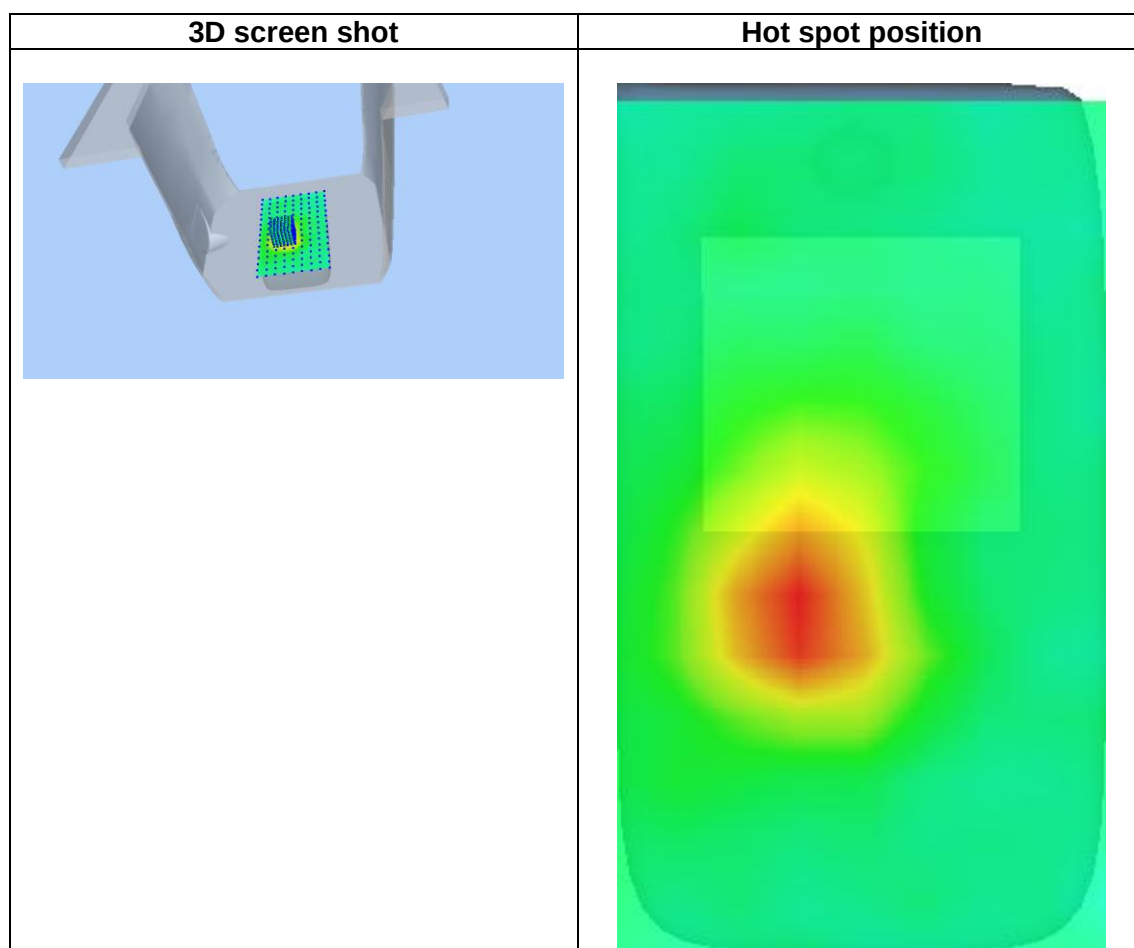
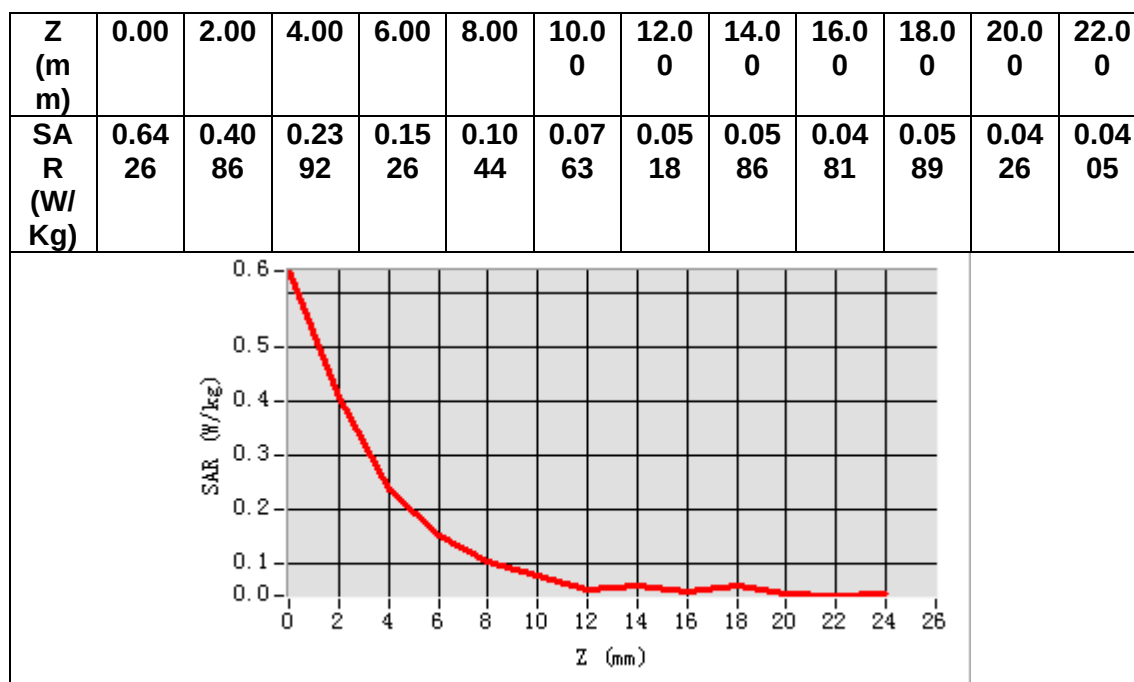
Frequency (MHz)	5310.000000
Relative permittivity (real part)	34.936260
Relative permittivity (imaginary part)	16.027550
Conductivity (S/m)	4.701415
Variation (%)	0.050000



Maximum location: X=-10.00, Y=-14.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.126960
SAR 1g (W/Kg)	0.255378



MEASUREMENT 18

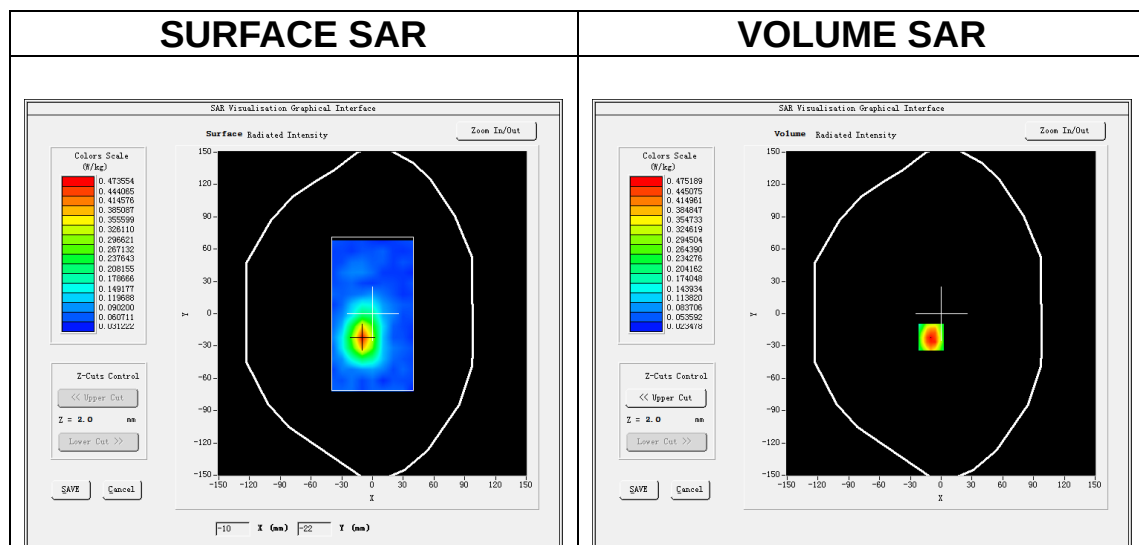
Date of measurement: 20/11/2024

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>Body</u>
Band	<u>IEEE 802.11a U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11a (Crest factor: 1.0)</u>
ConvF	<u>1.88</u>

B. SAR Measurement Results

Frequency (MHz)	5600.000000
Relative permittivity (real part)	34.529835
Relative permittivity (imaginary part)	15.996151
Conductivity (S/m)	4.976580
Variation (%)	-0.370000

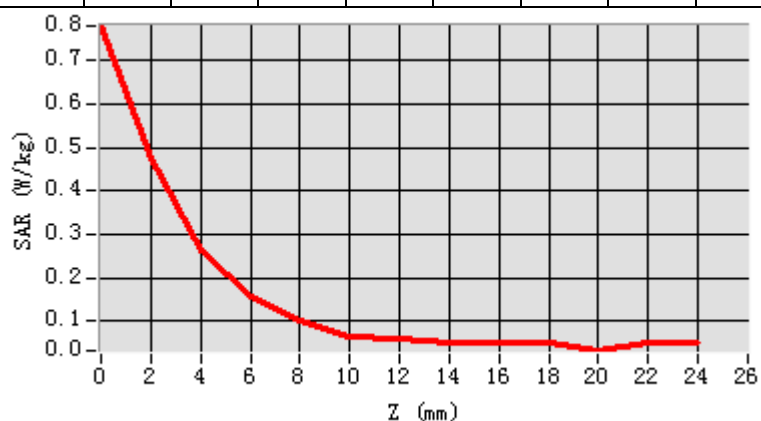


Maximum location: X=-10.00, Y=-22.00

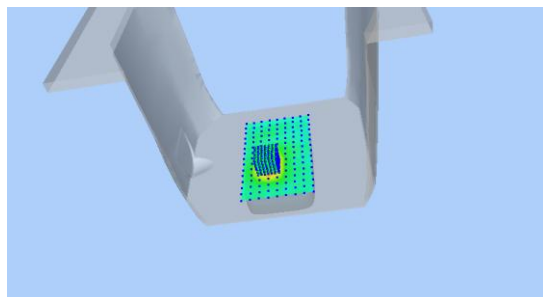
SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.141548
SAR 1g (W/Kg)	0.292995

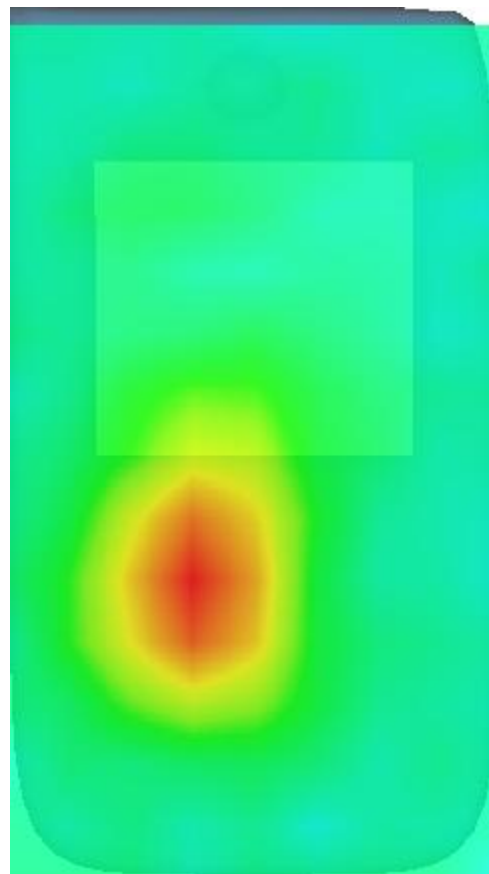
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	0.77 99	0.47 52	0.26 24	0.15 66	0.10 07	0.06 33	0.05 80	0.05 18	0.05 28	0.05 04	0.03 24	0.05 08



3D screen shot



Hot spot position



MEASUREMENT 19

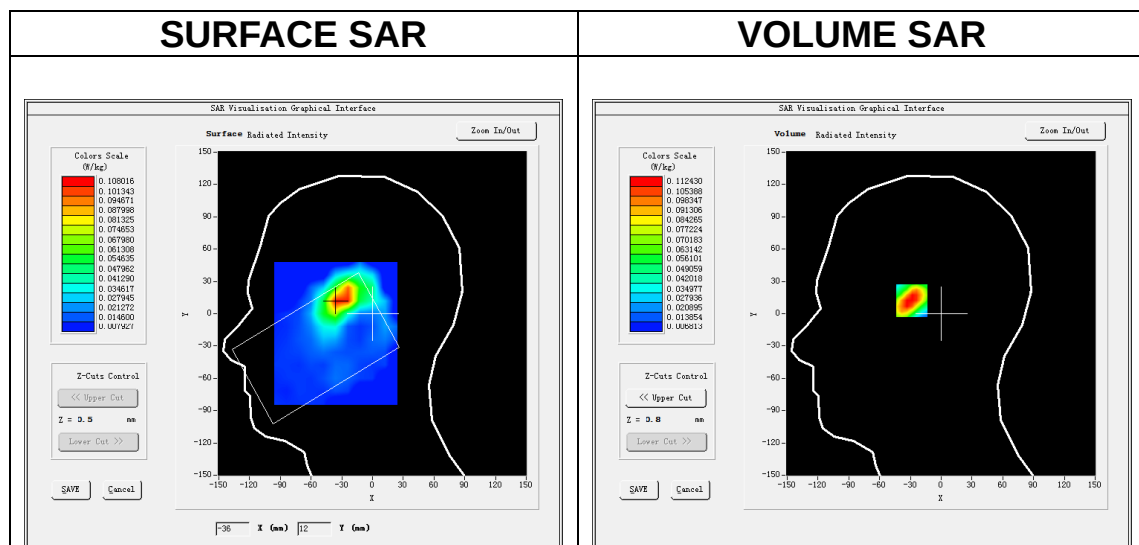
Date of measurement: 18/11/2024

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>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11b ISM</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11b (Crest factor: 1.0)</u>
ConvF	<u>2.74</u>

B. SAR Measurement Results

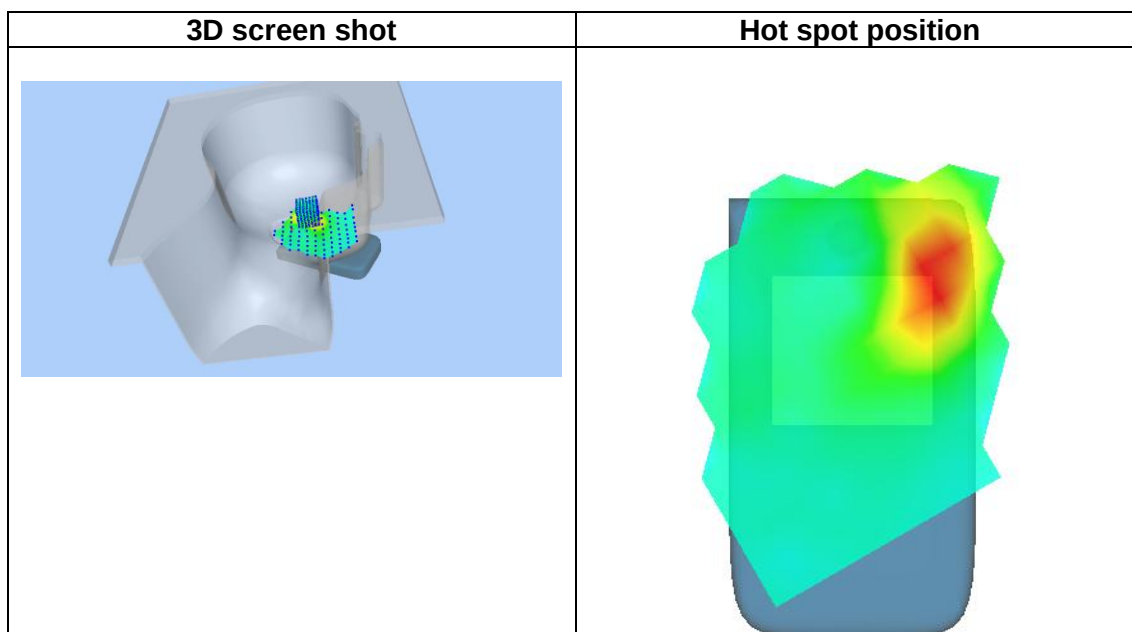
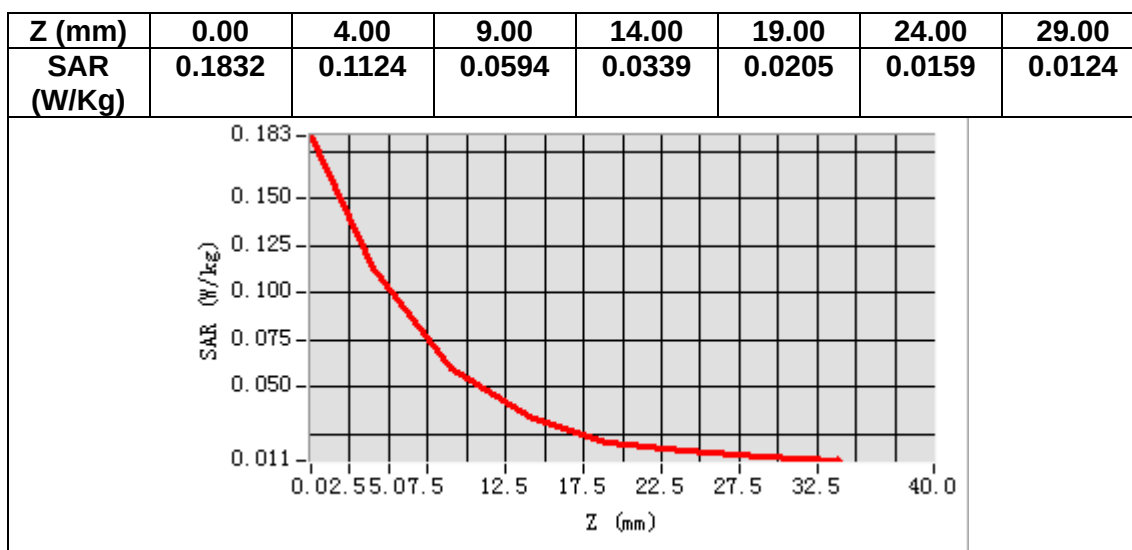
Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.014111
Relative permittivity (imaginary part)	13.123987
Conductivity (S/m)	1.776842
Variation (%)	-0.370000



Maximum location: X=-28.00, Y=14.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.055766
SAR 1g (W/Kg)	0.108735



MEASUREMENT 20

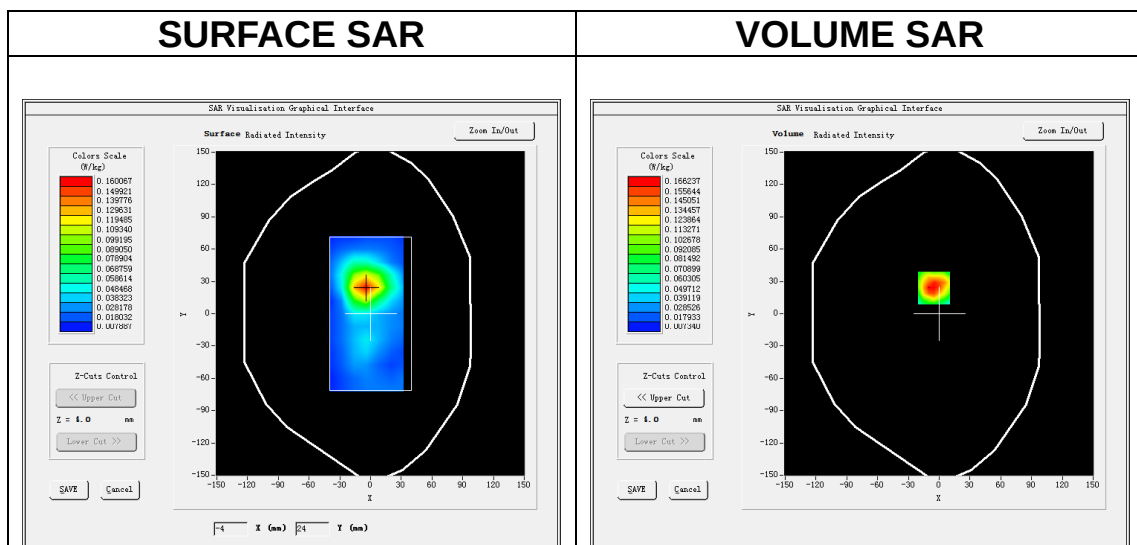
Date of measurement: 18/11/2024

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

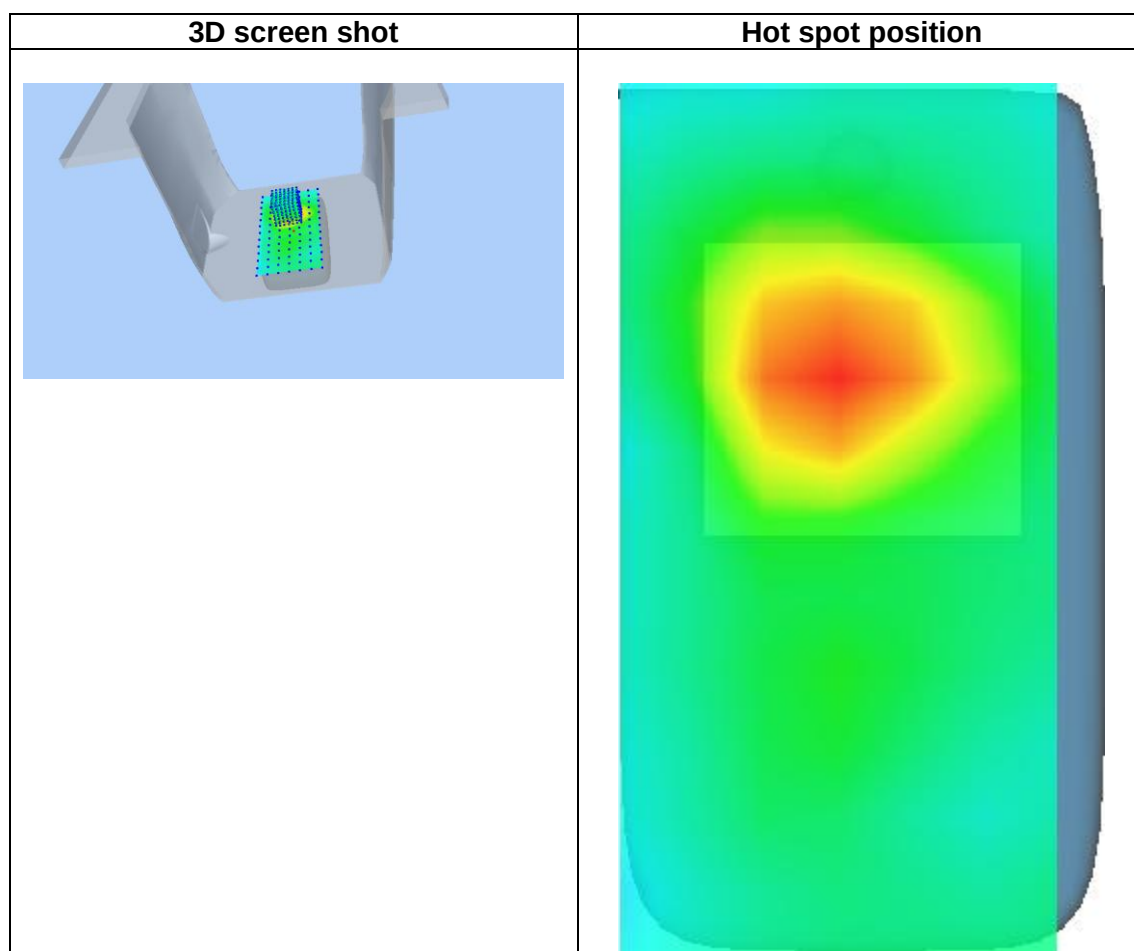
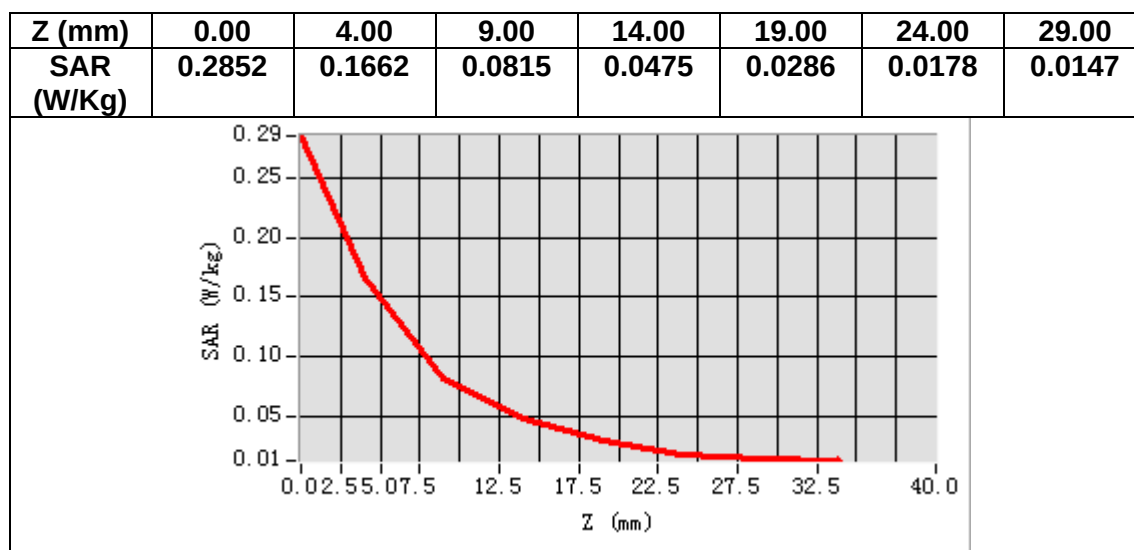
Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.014111
Relative permittivity (imaginary part)	13.123987
Conductivity (S/m)	1.776842
Variation (%)	3.600000



Maximum location: X=-5.00, Y=24.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.081155
SAR 1g (W/Kg)	0.158124



MEASUREMENT 21

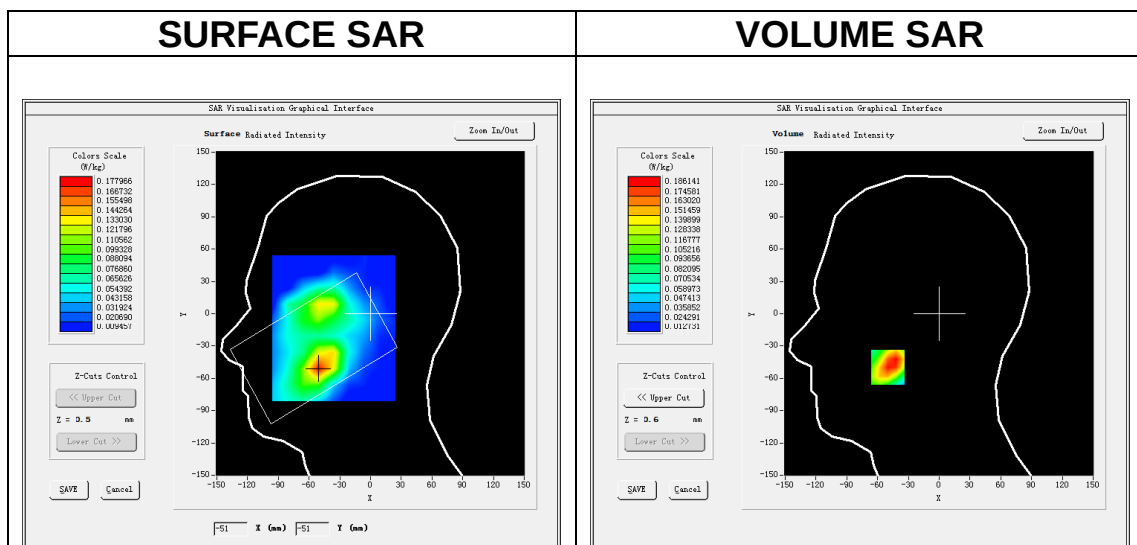
Date of measurement: 24/11/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.57</u>

B. SAR Measurement Results

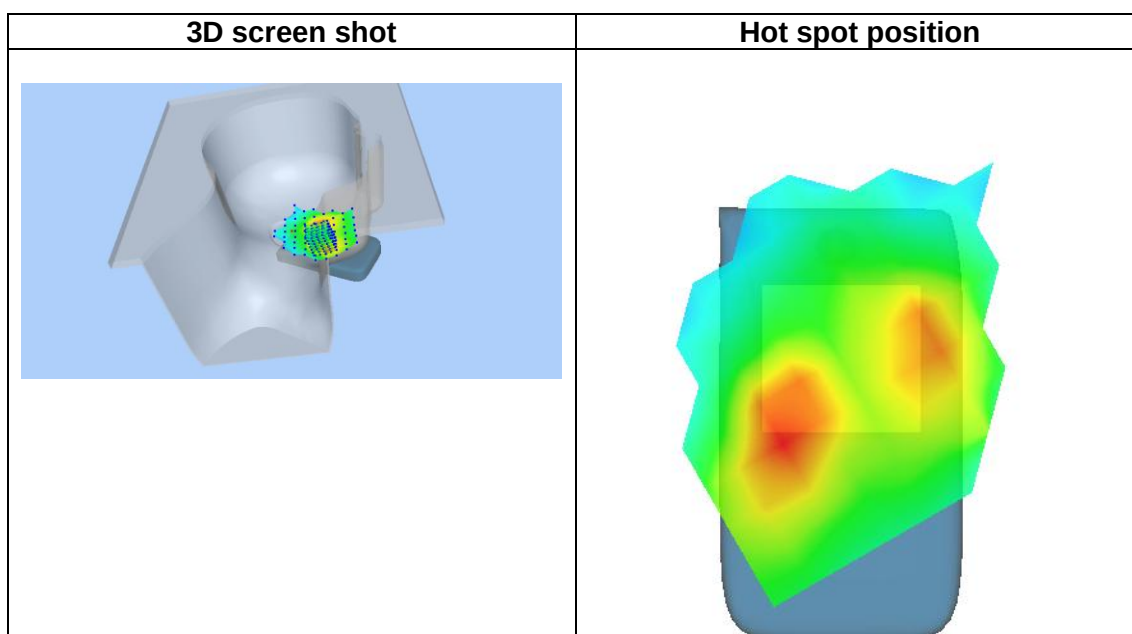
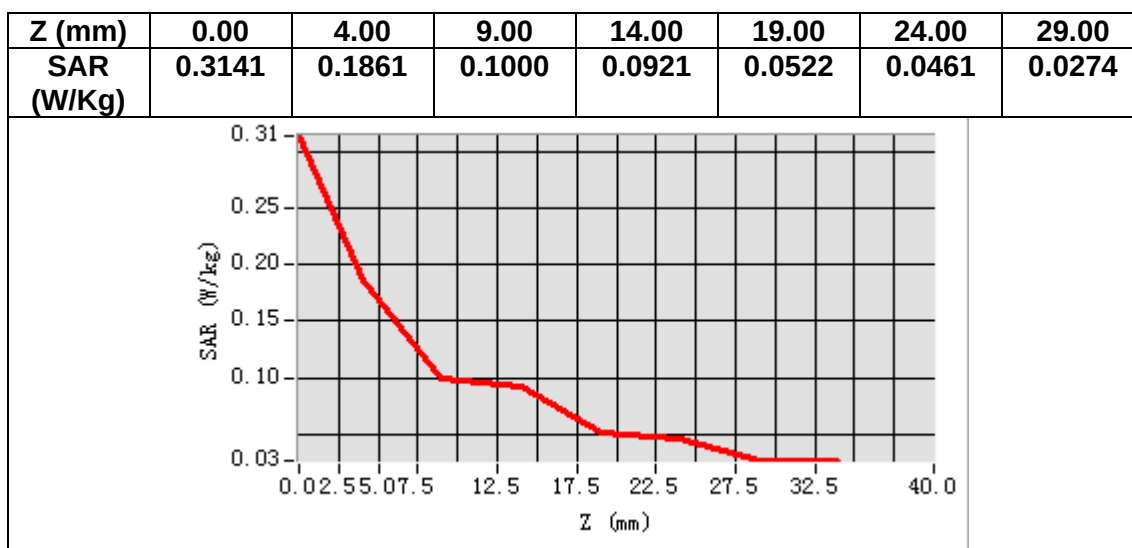
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.415112
Relative permittivity (imaginary part)	13.697431
Conductivity (S/m)	1.430621
Variation (%)	-1.480000



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

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.112693
SAR 1g (W/Kg)	0.185802



MEASUREMENT 22

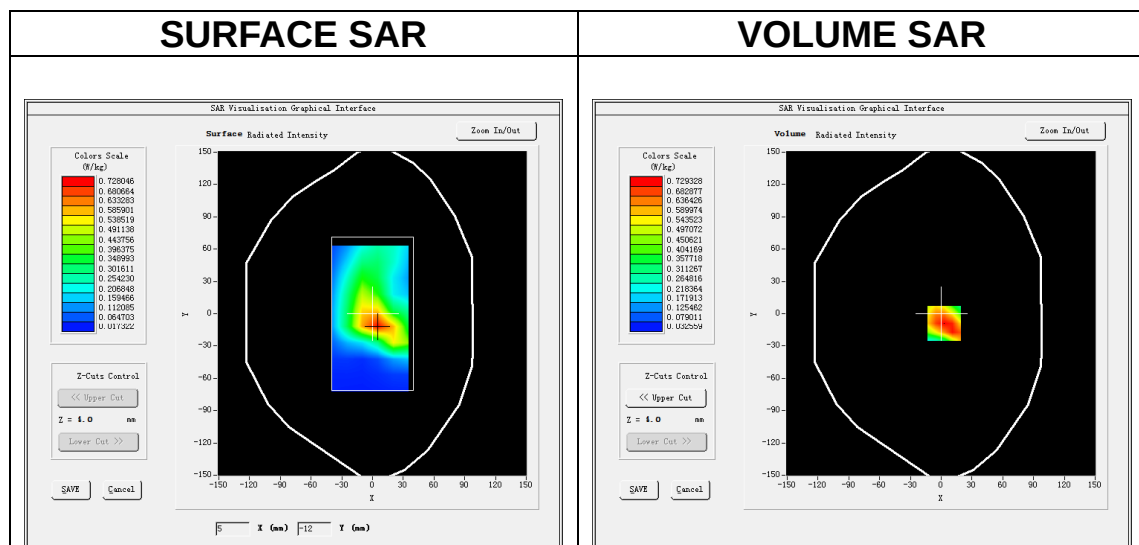
Date of measurement: 24/11/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.57</u>

B. SAR Measurement Results

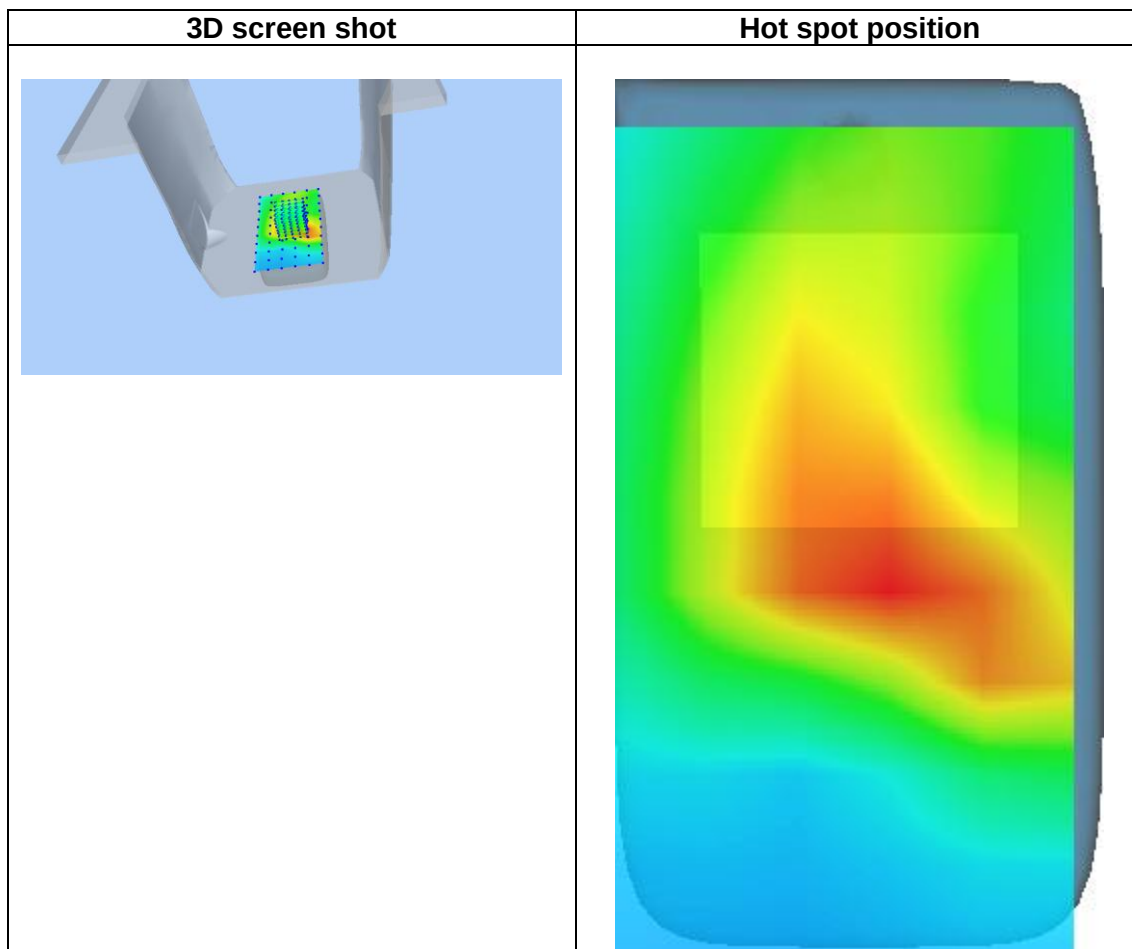
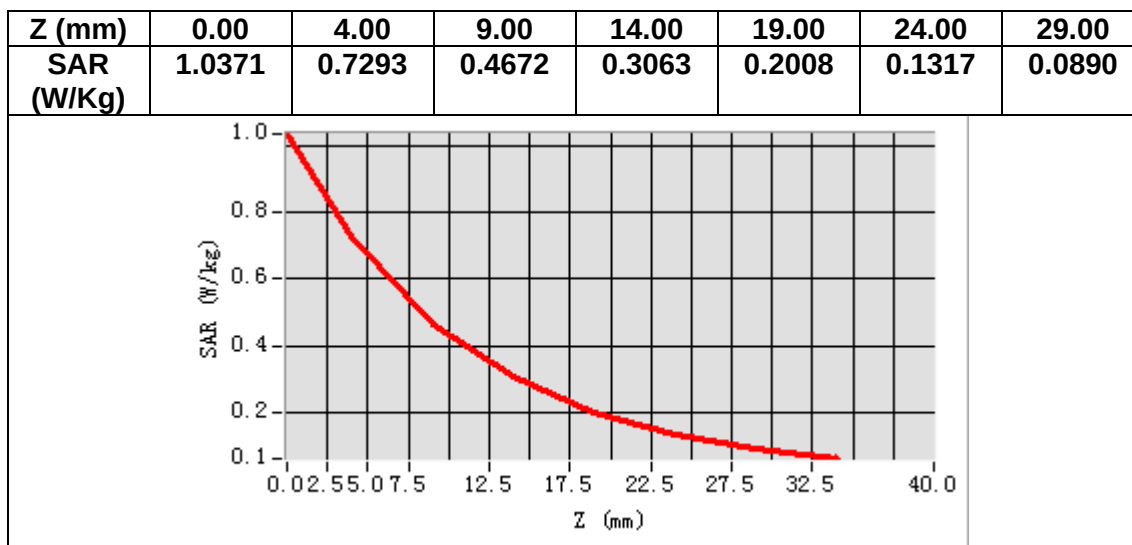
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.415112
Relative permittivity (imaginary part)	13.697431
Conductivity (S/m)	1.430621
Variation (%)	-2.980000



Maximum location: X=3.00, Y=-9.00

SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.421074
SAR 1g (W/Kg)	0.721039



MEASUREMENT 23

Date of measurement: 21/11/2024

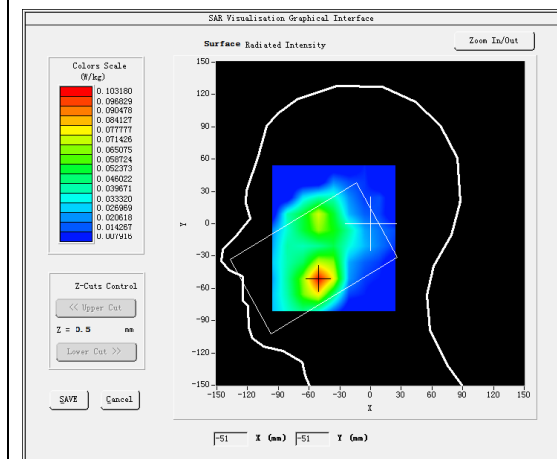
A. Experimental conditions.

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>LTE band 4</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

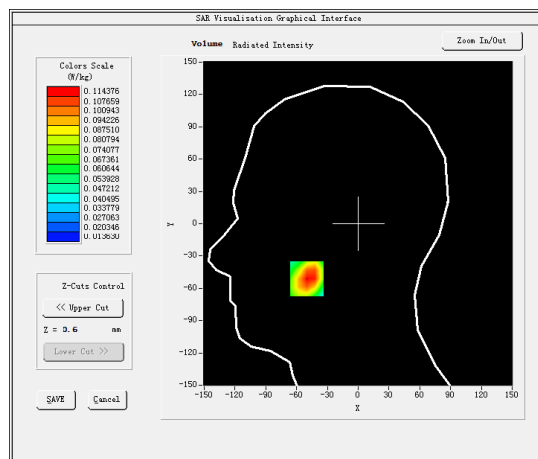
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.545303
Relative permittivity (imaginary part)	13.802155
Conductivity (S/m)	1.328457
Variation (%)	3.520000

SURFACE SAR



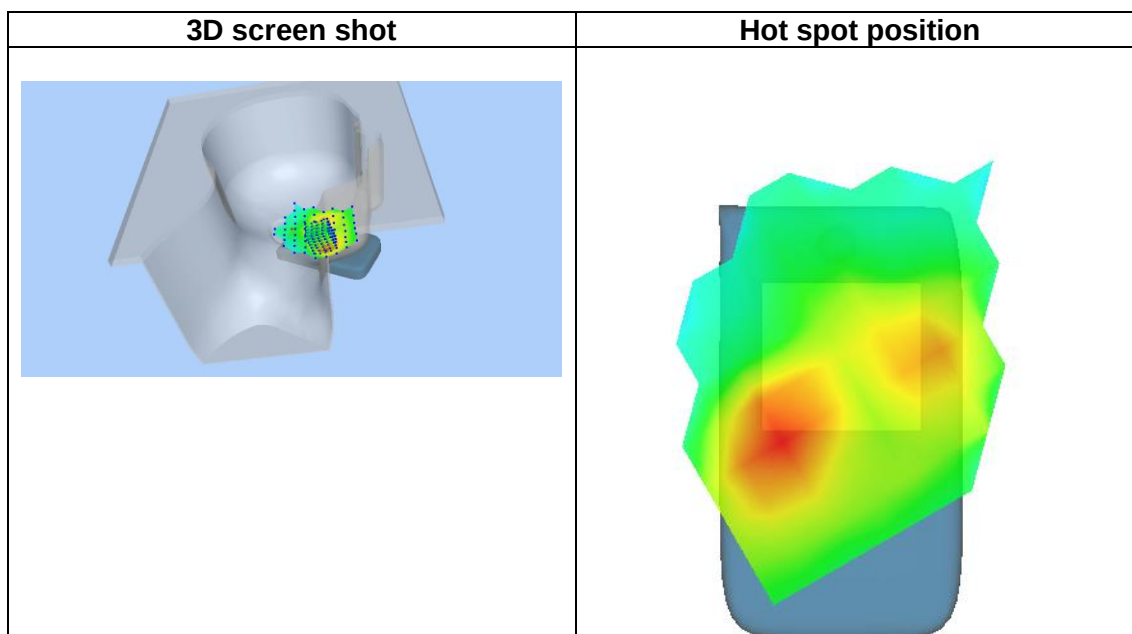
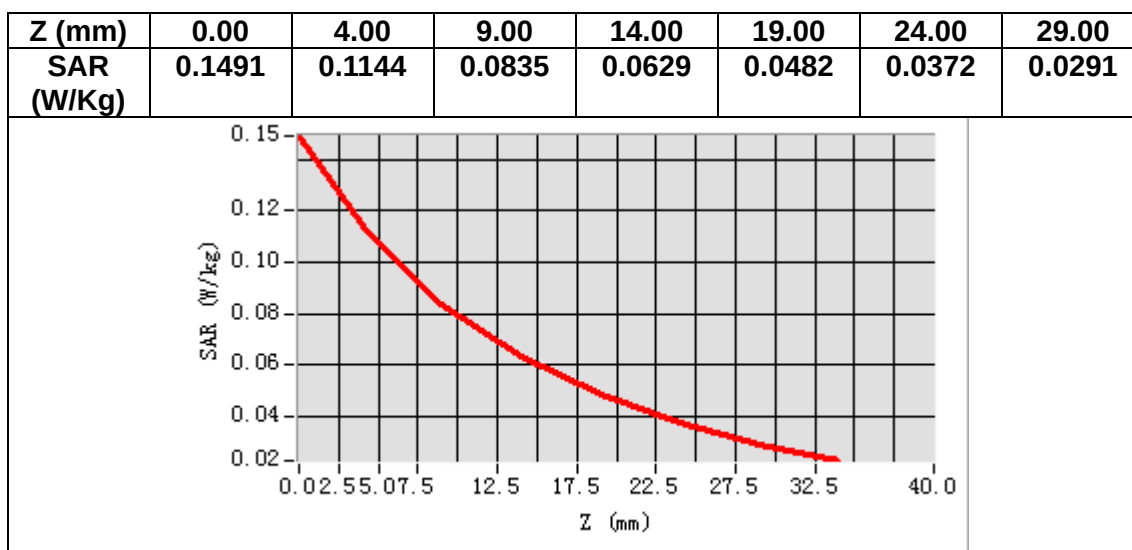
VOLUME SAR



Maximum location: X=-50.00, Y=-51.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.072241
SAR 1g (W/Kg)	0.112154



MEASUREMENT 24

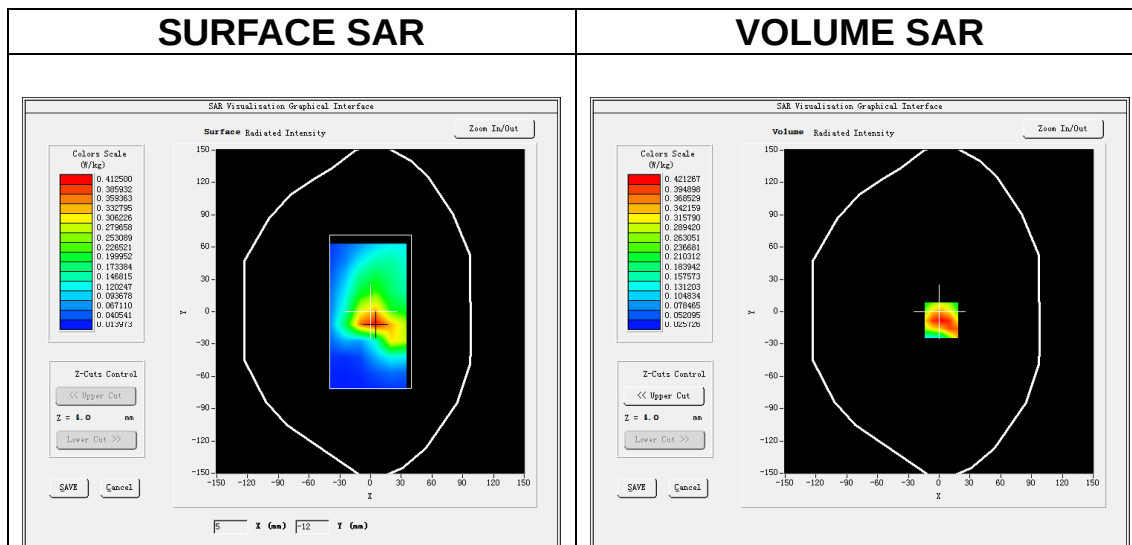
Date of measurement: 21/11/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.51</u>

B. SAR Measurement Results

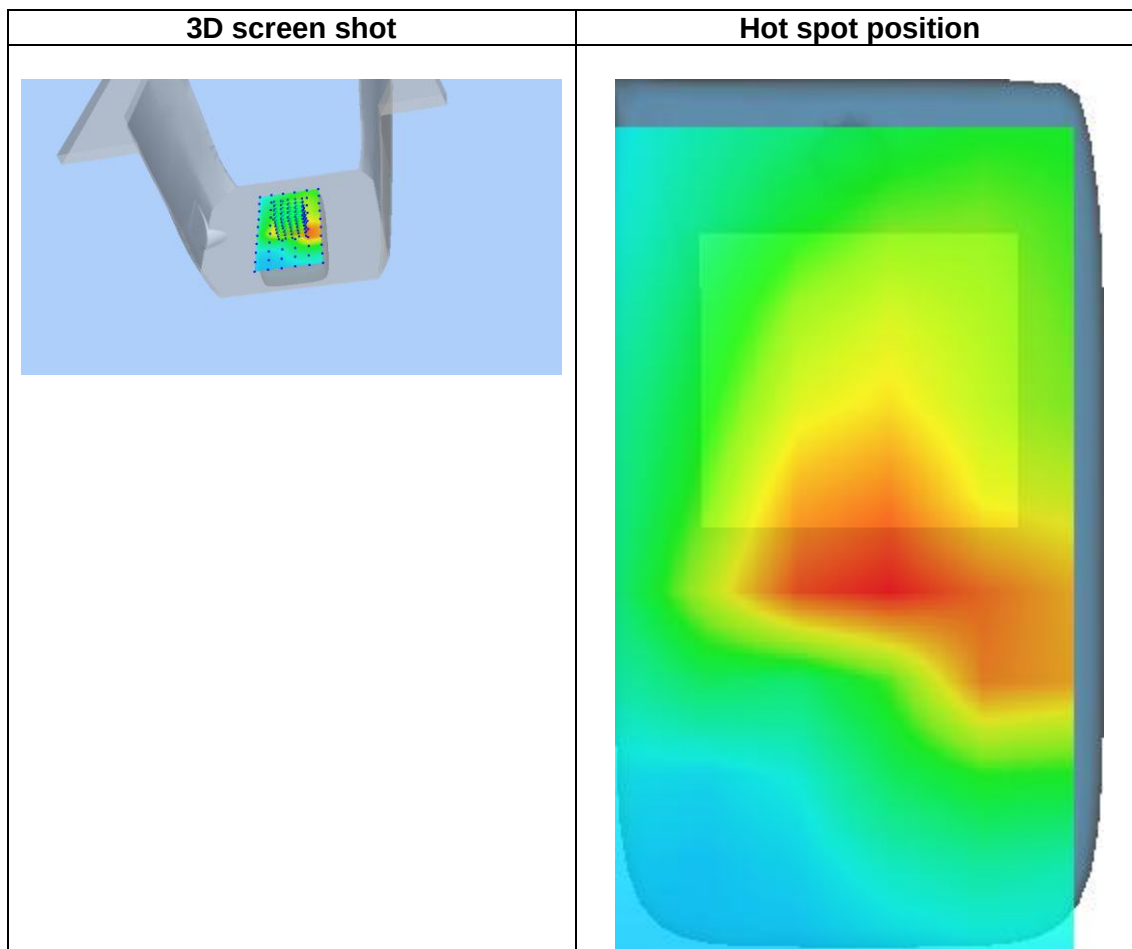
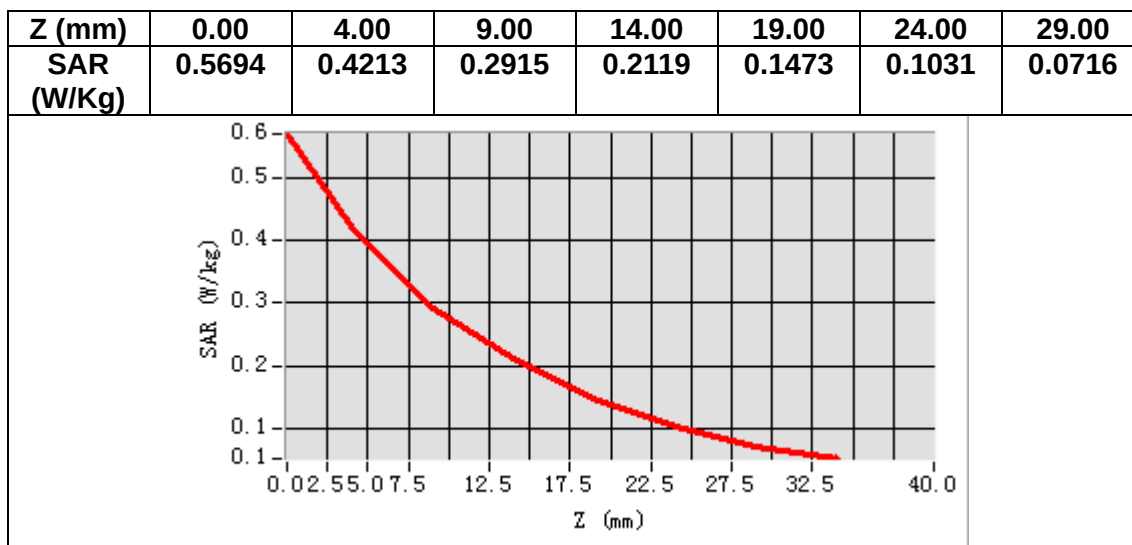
Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.545303
Relative permittivity (imaginary part)	13.802155
Conductivity (S/m)	1.328457
Variation (%)	1.260000



Maximum location: X=2.00, Y=-8.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.252560
SAR 1g (W/Kg)	0.401661



MEASUREMENT 25

Date of measurement: 26/11/2024

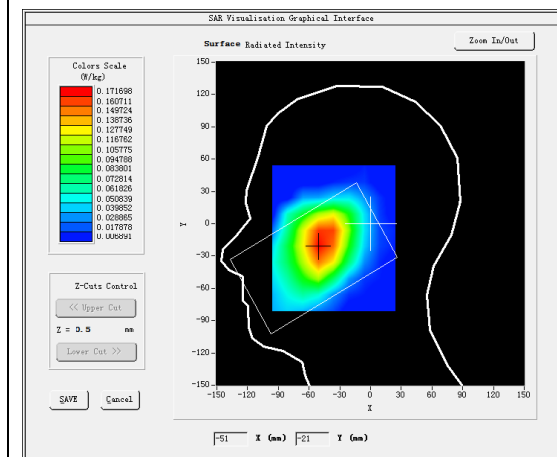
A. Experimental conditions.

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>LTE band 5</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.34</u>

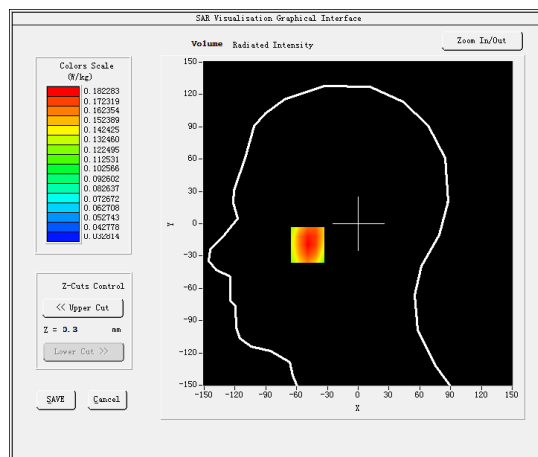
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.852818
Relative permittivity (imaginary part)	19.734732
Conductivity (S/m)	0.917117
Variation (%)	-2.860000

SURFACE SAR



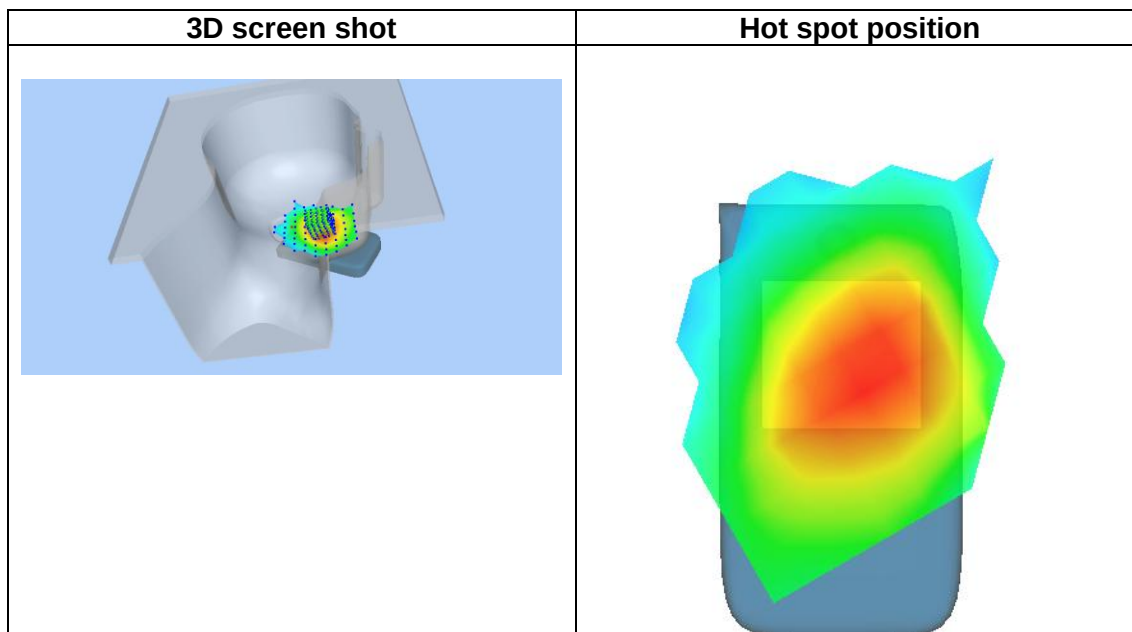
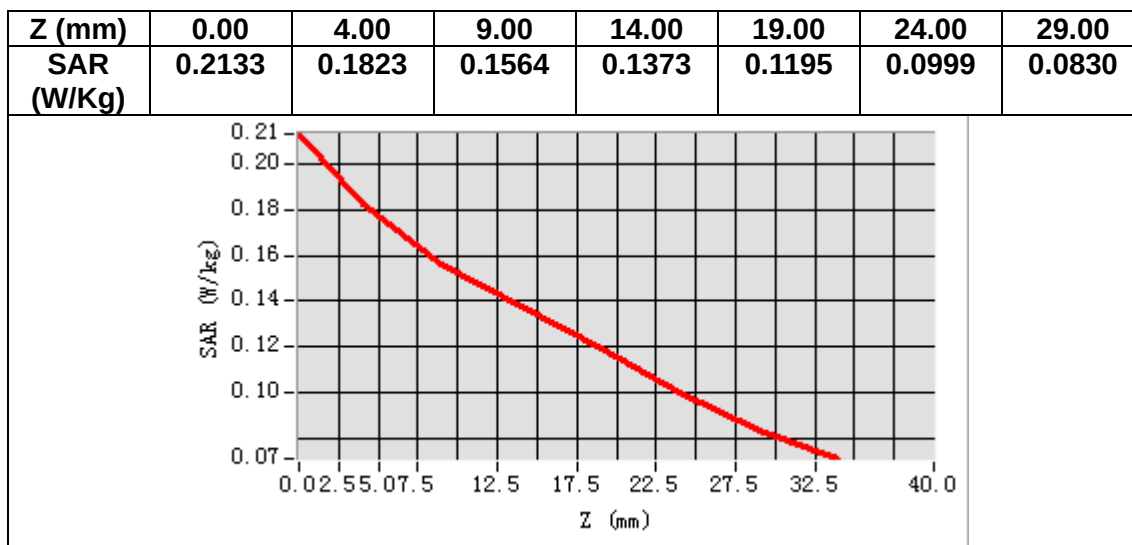
VOLUME SAR



Maximum location: X=-49.00, Y=-19.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.145182
SAR 1g (W/Kg)	0.182259



MEASUREMENT 26

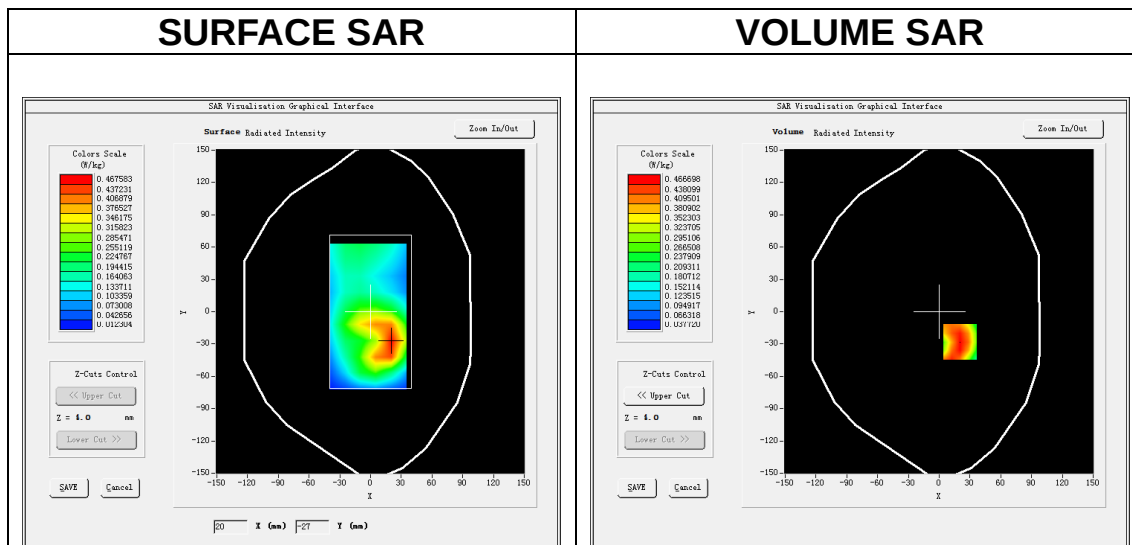
Date of measurement: 26/11/2024

A. Experimental conditions.

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

B. SAR Measurement Results

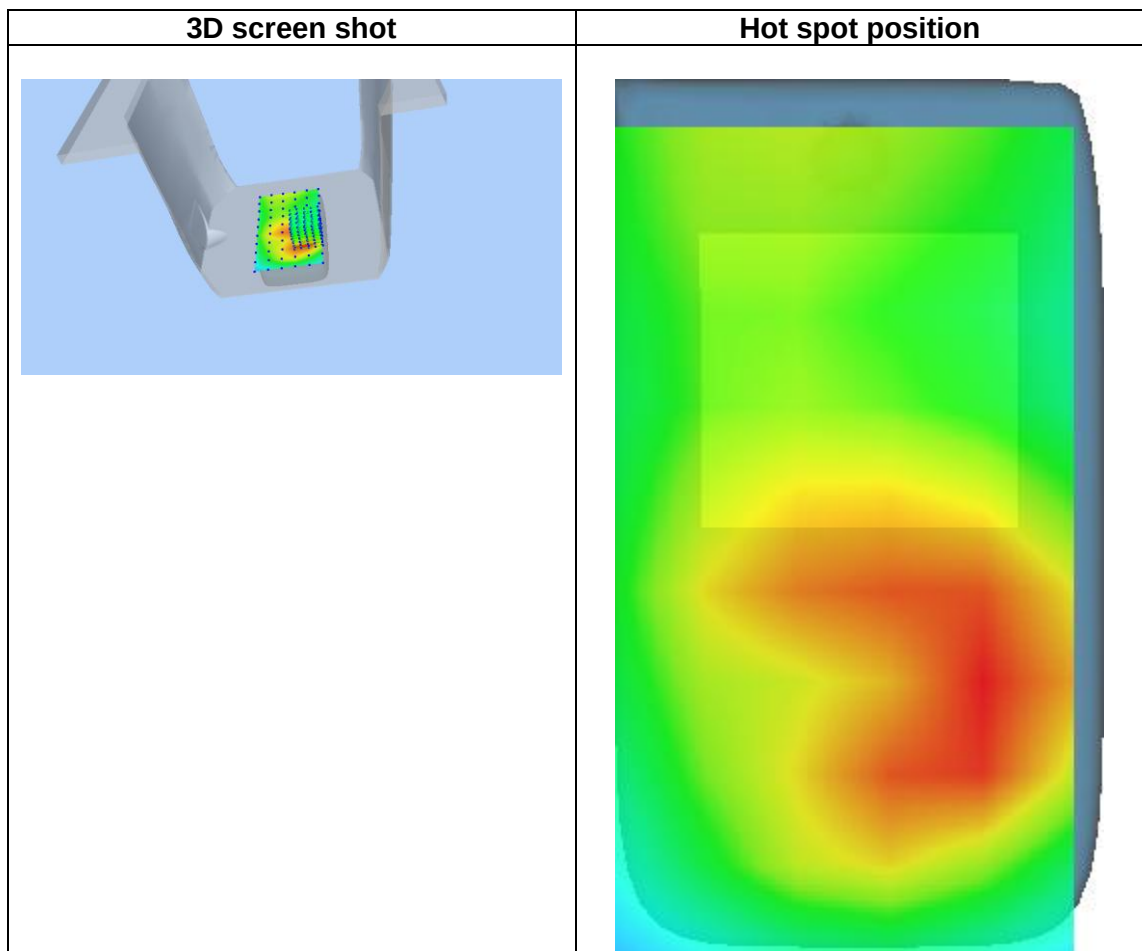
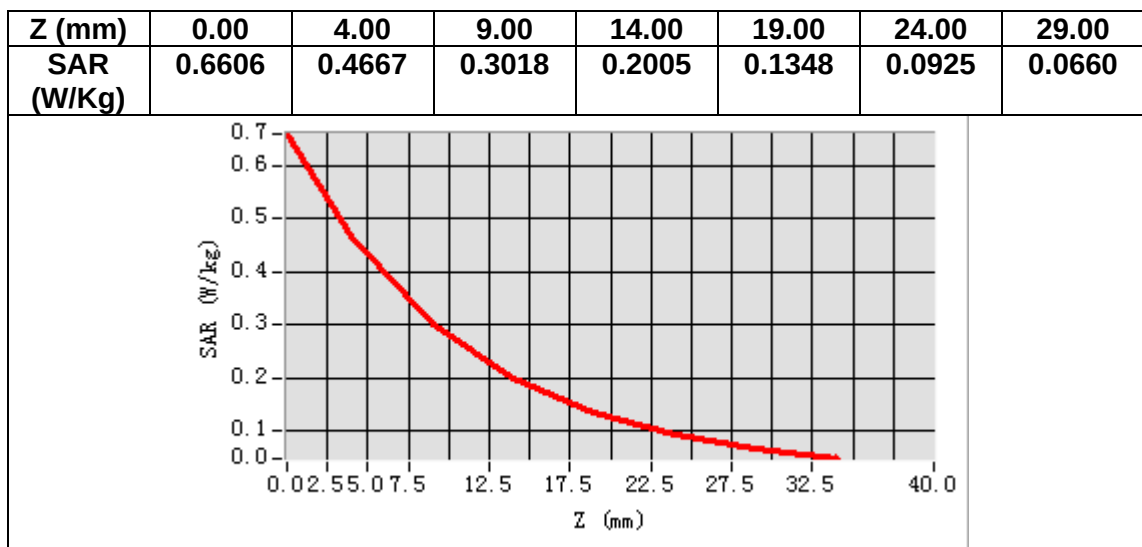
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.852818
Relative permittivity (imaginary part)	19.734732
Conductivity (S/m)	0.917117
Variation (%)	-0.230000



Maximum location: X=20.00, Y=-28.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.283736
SAR 1g (W/Kg)	0.453850



MEASUREMENT 27

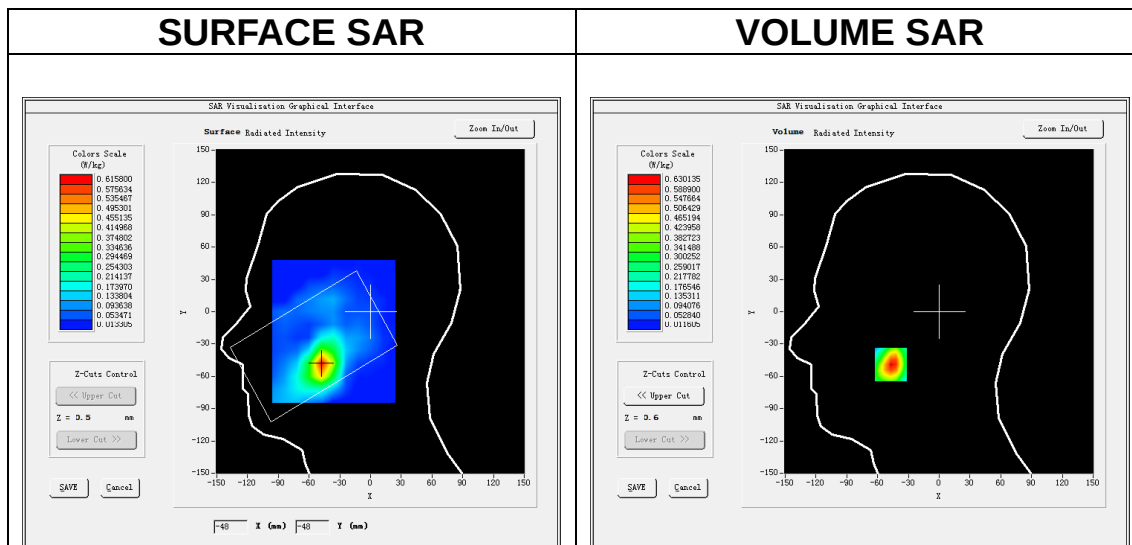
Date of measurement: 25/11/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.51</u>

B. SAR Measurement Results

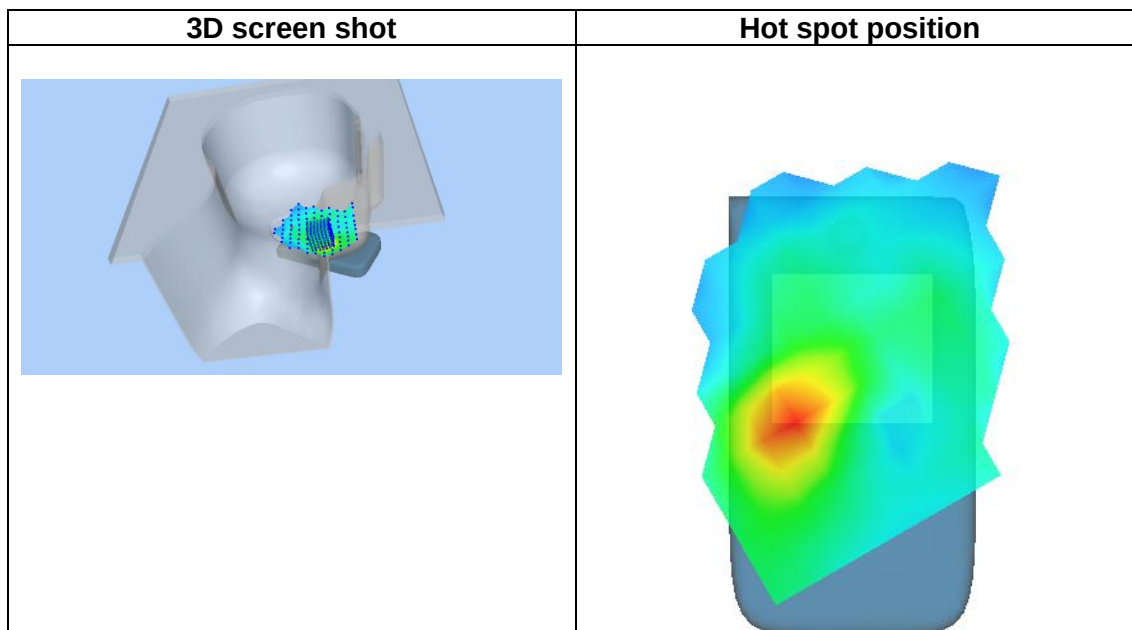
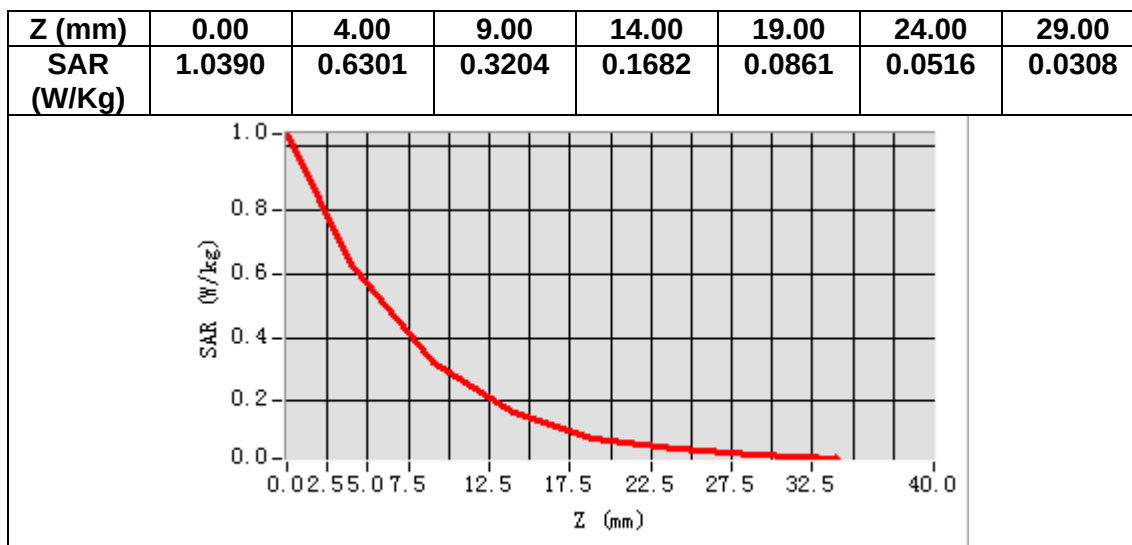
Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.213741
Relative permittivity (imaginary part)	13.599372
Conductivity (S/m)	1.915245
Variation (%)	-2.959999



Maximum location: X=-47.00, Y=-49.00

SAR Peak: 1.05 W/kg

SAR 10g (W/Kg)	0.285118
SAR 1g (W/Kg)	0.589862



MEASUREMENT 28

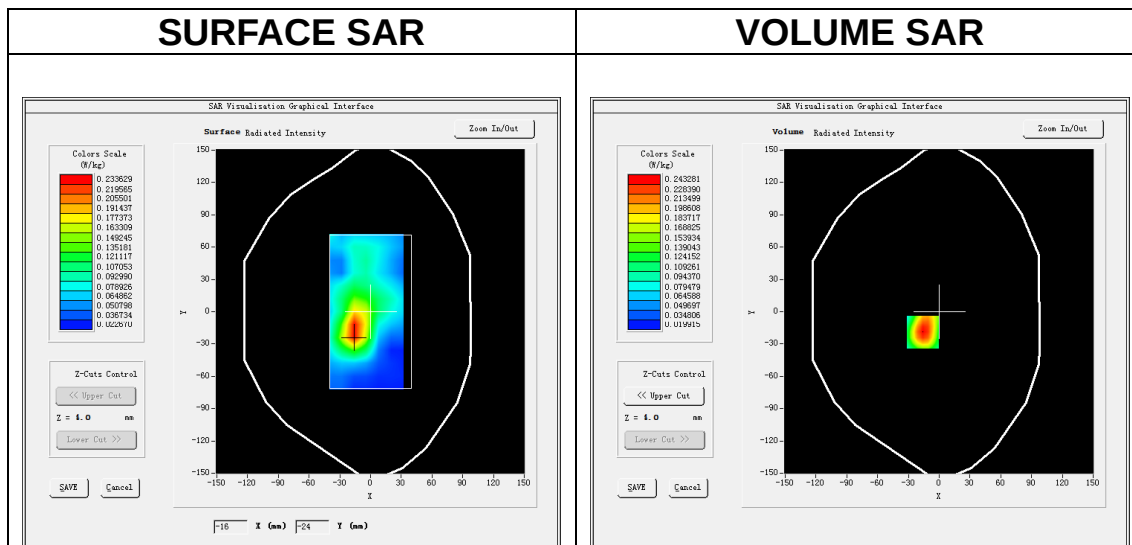
Date of measurement: 25/11/2024

A. Experimental conditions.

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

B. SAR Measurement Results

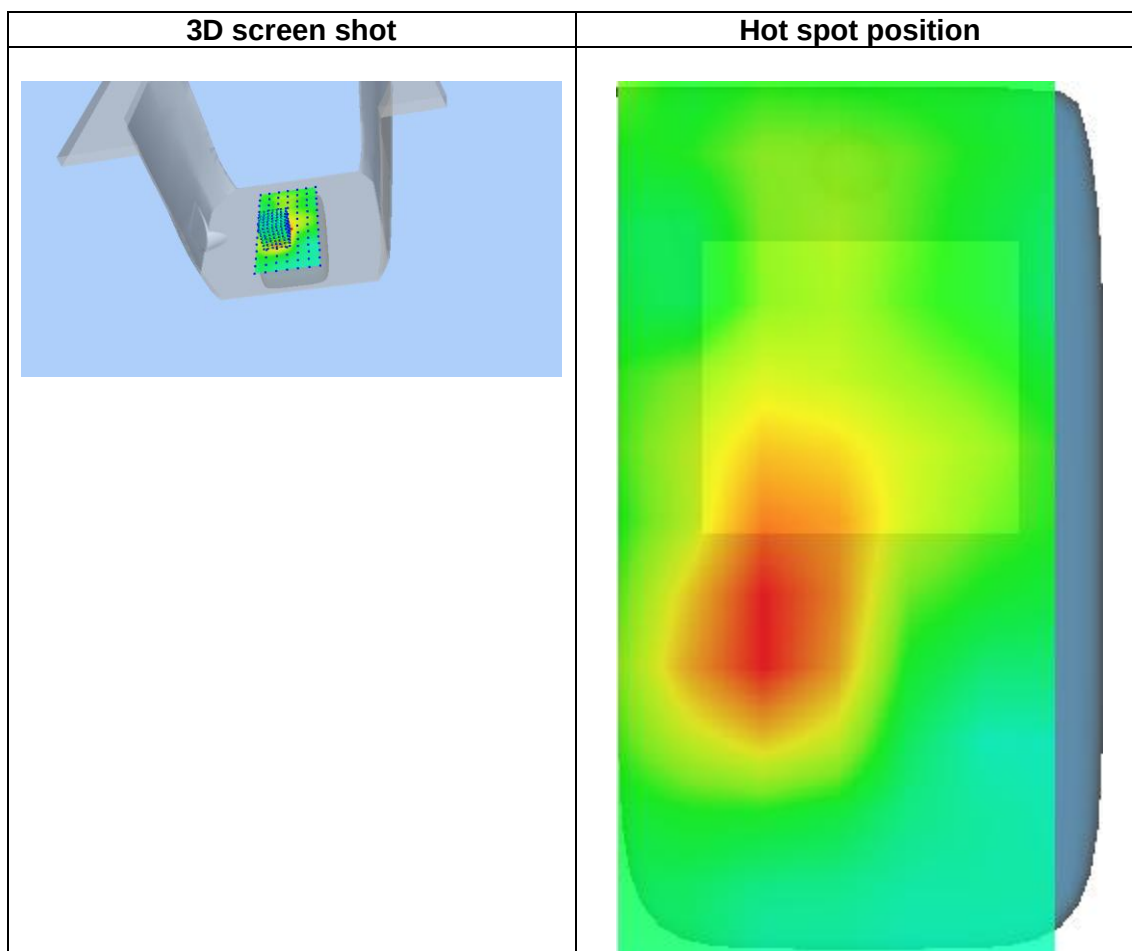
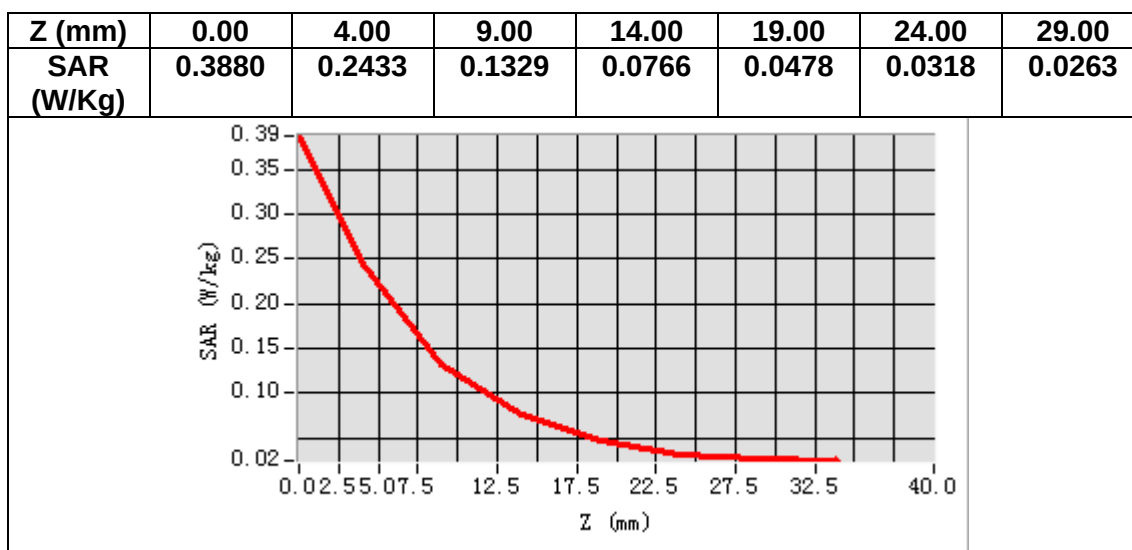
Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.213741
Relative permittivity (imaginary part)	13.599372
Conductivity (S/m)	1.915245
Variation (%)	-4.840000



Maximum location: X=-16.00, Y=-19.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.125047
SAR 1g (W/Kg)	0.229652



MEASUREMENT 29

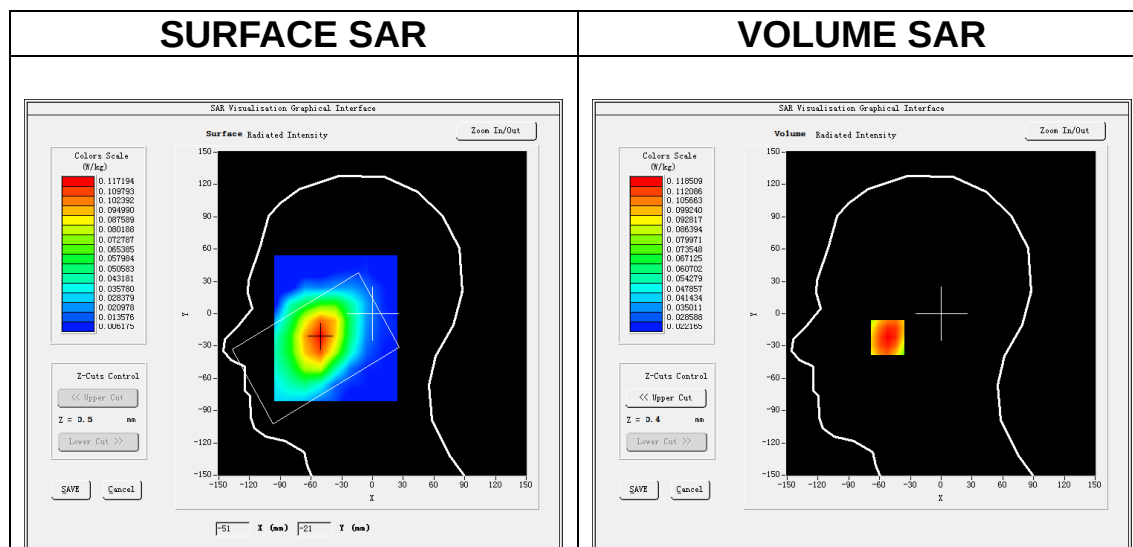
Date of measurement: 27/11/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.42</u>

B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	41.412174
Relative permittivity (imaginary part)	21.957754
Conductivity (S/m)	0.863062
Variation (%)	-0.010000



Maximum location: X=-52.00, Y=-22.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.093612
SAR 1g (W/Kg)	0.111055