

# FCC SAR EVALUATION REPORT

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

**Product Name :** Tablet Smartphone

**Trademark :** TRIPLTEK

**Model Name :** T9

**Family Model :** T mini , T10, T11, T12

**FCC ID :** 2A9ZK-TSERIES

**Report No. :** STR230109002009E

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TEST RESULT CERTIFICATION

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Manufacturer's Name.....: TRIPLTEK LLC
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Product description

Product name.....: Tablet Smartphone
Trademark .....: TRIPLTEK
Model Name .....: T9
Family Model.....: T mini , T10, T11, T12
FCC 47 CFR Part 2(2.1093)

Standards .....: ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
Published RF exposure KDB procedures

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

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Test Sample Number ..... T230109002R002

Date of Test

Date (s) of performance of tests .....: Jan. 29, 2023 ~ Feb. 10, 2023
Date of Issue .....: Feb. 25, 2023

Test Result .....: Pass

Prepared By (Test Engineer) : Jacob Chen (Jacob Chen)
Approved By (Lab Manager) : Alex Li (Alex Li)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Feb. 25, 2023	Jacob Chen

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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  
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 T9 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.427	0.240	0.725	N/A
1-g Body-Worn (Separation distance of 0mm)		1.203	0.365	0.348	N/A
1-g Hotspot (Separation distance of 0mm)		1.203	0.365	0.348	N/A
Max Simultaneous Tx	Head	1.152	0.667	1.152	0.560
	Body-Worn	1.568	1.568	1.551	1.269
	Hotspot	1.568	1.568	1.551	1.269

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

### 1.3. EUT Description

Device Information	
Product Name	Tablet Smartphone
Trade Name	TRIPLTEK
Model Name	T9
Family Model	T mini , T10, T11, T12
Model Difference	All models are the same circuit and RF module, except the Memory , software, LOGO
FCC ID	2A9ZK-TSERIES
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	PIFA Antenna
Battery	DC 3.85V, 11600mAh
Hardware version	V1.1
Software version	TRIPLTEK_T93_20230115
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/13/14/17/25/2641/66, WLAN 2.4G/5G, Bluetooth

Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
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	746-756
	LTE Band 14	788-798	758-768
	LTE Band 17	704-716	734-746
	LTE Band 25	1850-1915	1930-1995
	LTE Band 26	814-849	859-894
	LTE Band 41	2540-2650	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
WLAN 5.8G	5745-5825		
Bluetooth	2402-2480		
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		



	3, tested with power control all Max.(LTE Band 7)
	3, tested with power control all Max.(LTE Band 12)
	3, tested with power control all Max.(LTE Band 13)
	3, tested with power control all Max.(LTE Band 14)
	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(LTE Band 25)
	3, tested with power control all Max.(LTE Band 26)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(LTE Band 66)

**1.4. Test specification(s)**

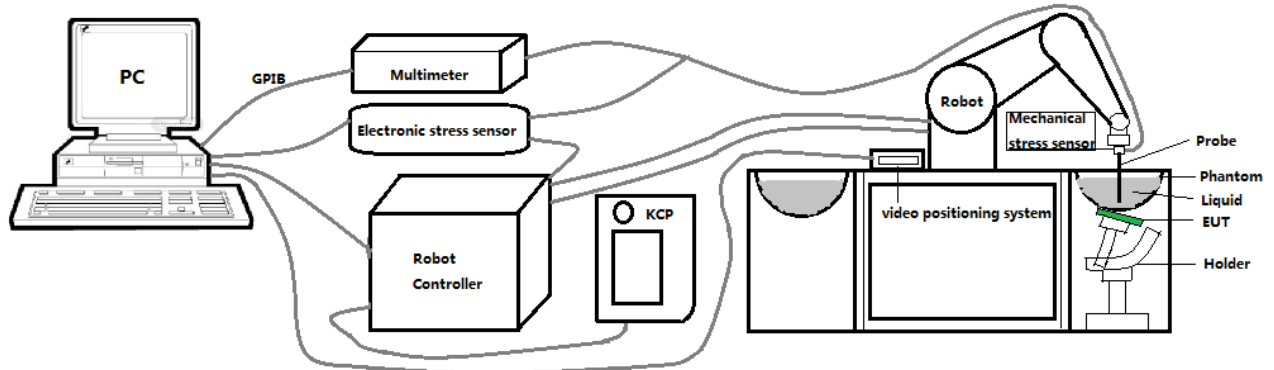
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 616217 D04 SAR for laptop and tablets

**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  $\pm 0.03$  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  $\pm 0.03$  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 SN 08/16 EPGO287 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  $\pm 1$  mm).
  - Probe linearity:  $\pm 0.08$  dB
  - Axial isotropy:  $\pm 0.01$  dB
  - Hemispherical Isotropy:  $\pm 0.01$  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  $30^\circ$ .

#### 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  $\pm 0.25$ 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

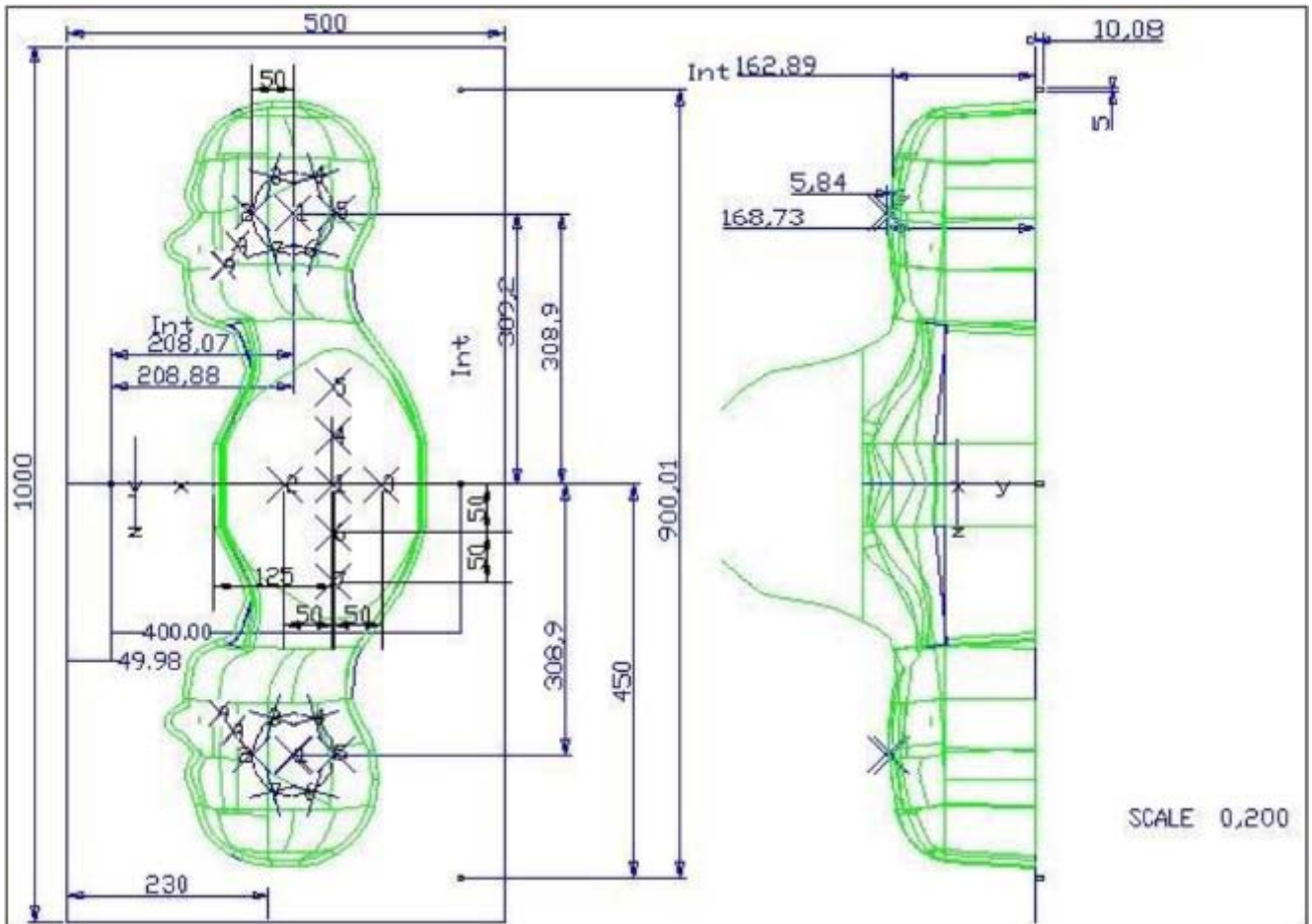
Photo of SAM phantom SN 16/15 SAM119



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

2.4.1. Technical Data

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

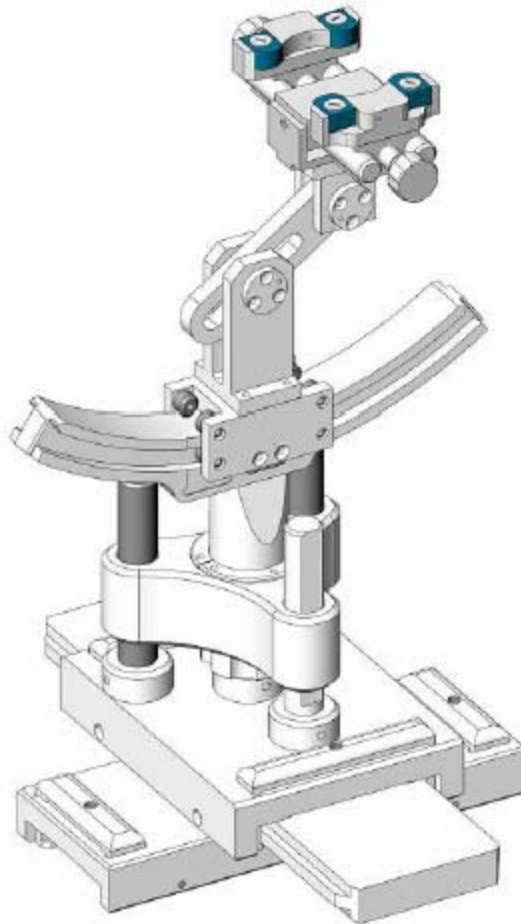


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 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
<input checked="" type="checkbox"/>	MVG	E FIELD PROBE	SSE2	SN 08/16 EPGO287	Jan. 10, 2023	Jan. 09, 2024
<input checked="" type="checkbox"/>	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
<input checked="" type="checkbox"/>	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
<input checked="" type="checkbox"/>	R&S	Universal radio communication tester	CMU200	117858	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	R&S	Wideband radio communication tester	CMW500	103917	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	Jun. 17, 2022	Jun. 16, 2023

<input checked="" type="checkbox"/>	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Jun. 16, 2022	Jun. 15, 2023
<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 17, 2020	Jul. 16, 2023

### 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 WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth 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 WLAN/Bluetooth output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/Bluetooth 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	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°	
Maximum area scan spatial resolution: Δx <sub>Area</sub> , Δy <sub>Area</sub>		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz <sub>Zoom</sub> (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz <sub>Zoom</sub> (n>1): between subsequent points	≤ 1.5·Δz <sub>Zoom</sub> (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 used to determine these 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 of a full 3D scan over a specific area. This 3D scan is useful for multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scans to calculate the SAR value of the combined measurement as it is defined in the standard IEEE1528 and IEC62209.

### 3.5. Power Drift

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

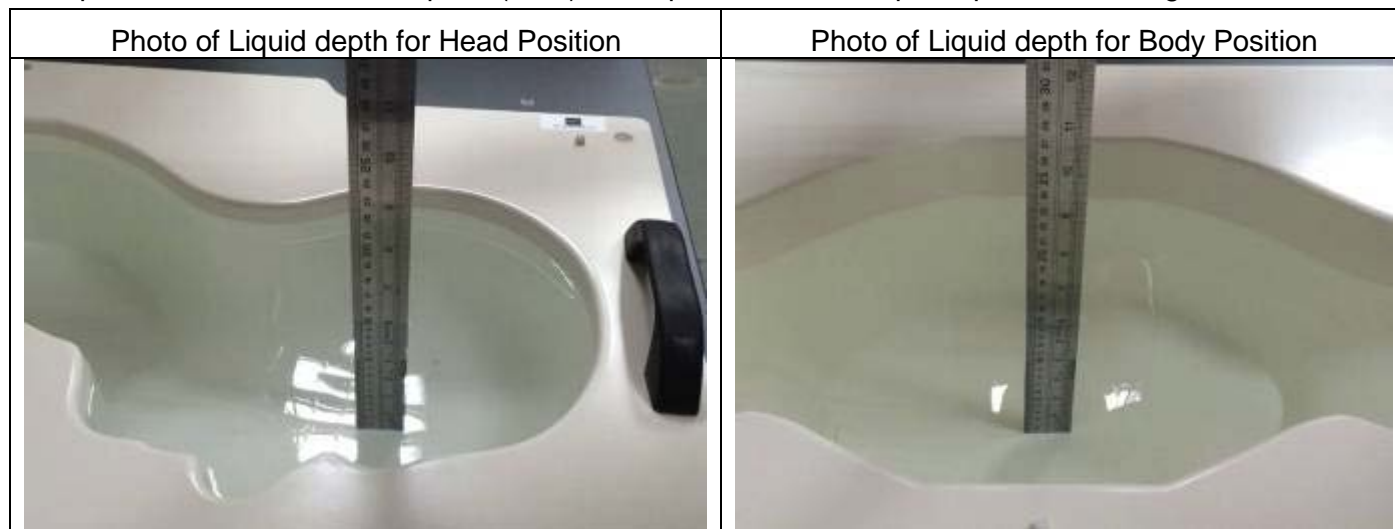
## 4. System Verification Procedure

### 4.1. Tissue Verification

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

Ingredients (% of weight)	Head Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
Frequency Band (MHz)										
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23
Ingredients (% of weight)	Body Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
Frequency Band (MHz)										
Water	50.30	50.30	50.30	69.91	69.91	71.88	71.88	71.88	79.54	79.54
NaCl	0.60	0.60	0.60	0.13	0.13	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	49.10	49.10	49.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	9.99	9.99	19.97	19.97	19.97	11.24	11.24
DGBE	0.00	0.00	0.00	19.97	19.97	7.99	7.99	7.99	9.22	9.22

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.



#### 4.1.1. Tissue Dielectric Parameter Check Results

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

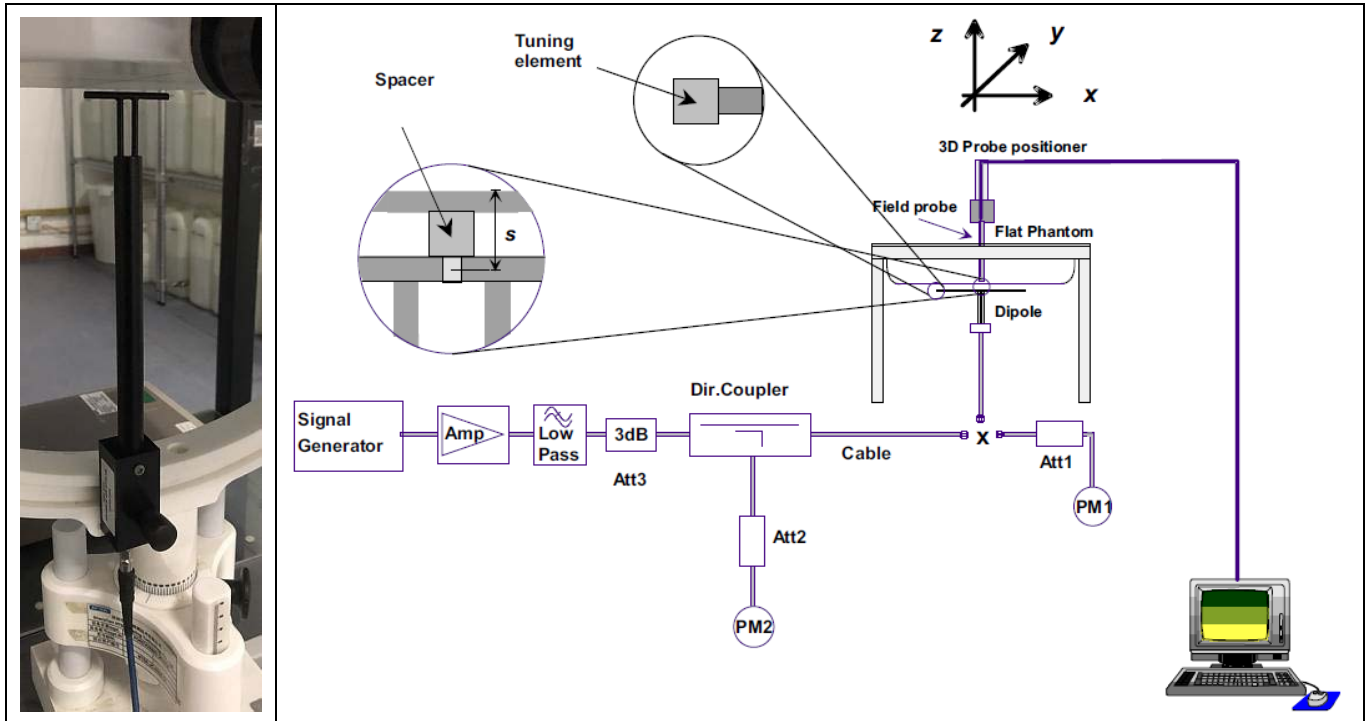
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r$ ( $\pm 5\%$ )	$\sigma$ (S/m) ( $\pm 5\%$ )	$\epsilon_r$	$\sigma$ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.85	0.90	21.7 °C	Feb. 07, 2023
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.59	0.92	21.2 °C	Feb. 09, 2023
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.26	1.40	21.2 °C	Jan. 29, 2023
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.99	1.44	21.4 °C	Feb. 10, 2023
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.34	1.78	21.3 °C	Feb. 01, 2023
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.34	2.01	21.7 °C	Feb. 02, 2023
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.28	4.80	21.1 °C	Feb. 03, 2023
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.86	5.33	21.6 °C	Feb. 06, 2023

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

### 4.2. System Verification Procedure

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

The system verification is shown as below picture:





#### 4.2.1. System Verification Results

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

System Verification	Target SAR (1W) ( $\pm 10\%$ )		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)		
750MHz	8.53 (7.68~9.38)	5.56 (5.01~6.11)	7.75	5.37	21.7 °C	Feb. 07, 2023
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	10.38	6.22	21.2 °C	Feb. 09, 2023
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	39.28	20.23	21.2 °C	Jan. 29, 2023
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	39.04	21.45	21.4 °C	Feb. 10, 2023
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	58.25	26.01	21.3 °C	Feb. 01, 2023
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	55.40	24.80	21.7 °C	Feb. 02, 2023
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	176.31	59.17	21.1 °C	Feb. 03, 2023
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	192.71	62.82	21.6 °C	Feb. 06, 2023

## 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  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  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.

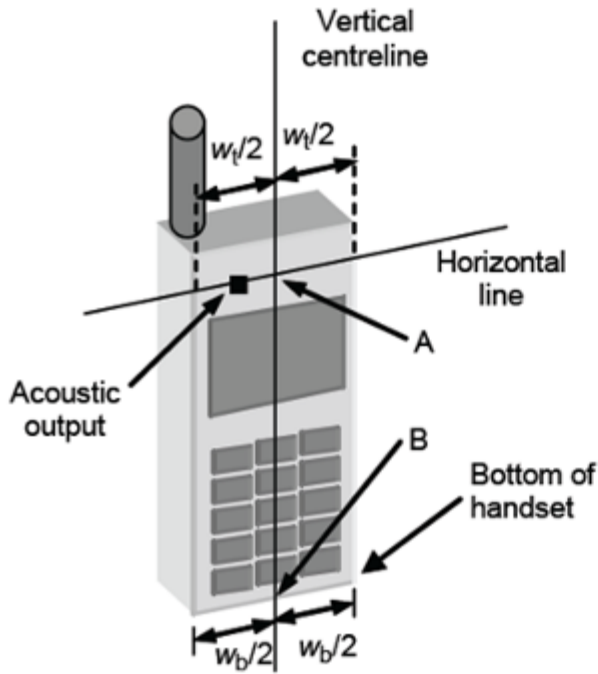


Fig 6.2.1 Handset vertical and horizontal reference lines—“fixed case”

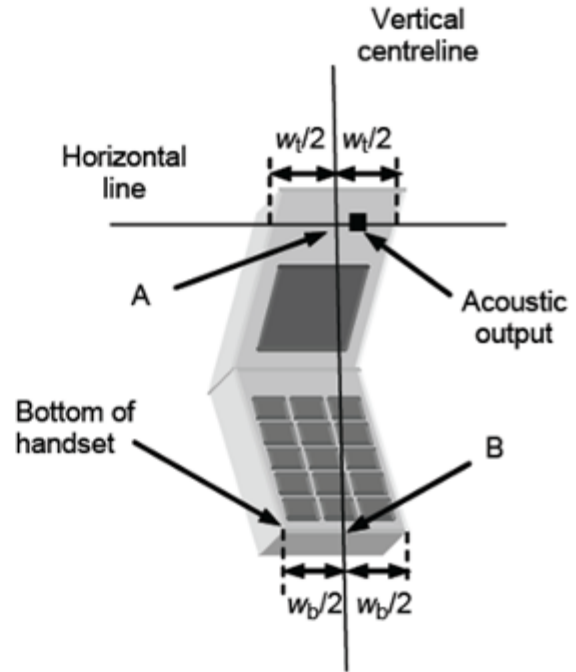


Fig 6.2.2 Handset vertical and horizontal reference lines— “clam-shell case”

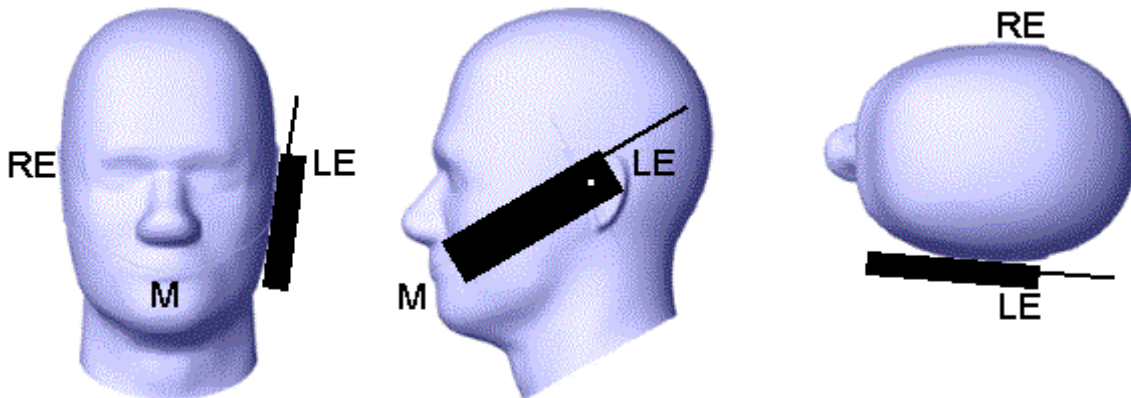


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

### 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.

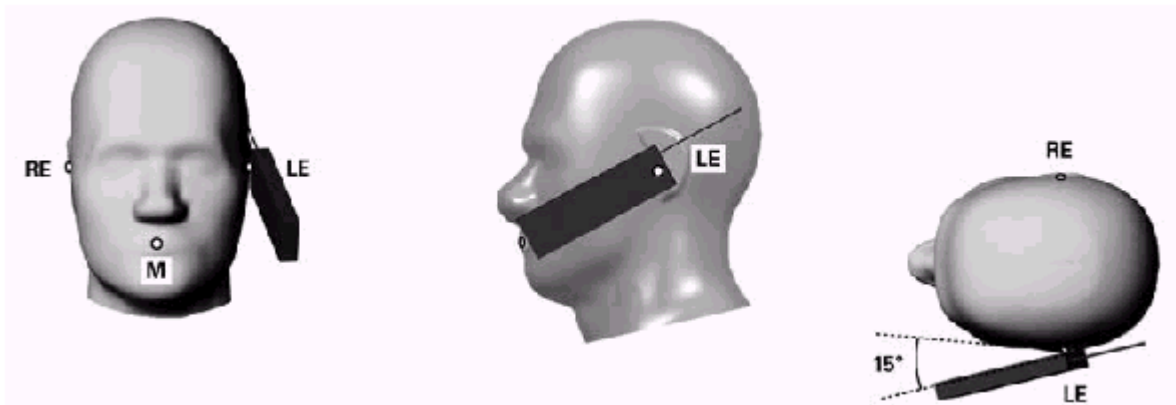


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

### 6.4. Tablet Smartphone host platform exposure conditions

Refer to KDB616217 D04, when the modular approach is used, transmitters and modules must be initially tested for standalone operations in generic host conditions according to the following minimum test separation distance and antenna installation requirements for incorporation in the tablet platform. The separation distance required for incorporation in qualified hosts is described in KDB 447498; item 5) of section 4.1 and item 1) of section 5.2.2 etc.

- $\leq 5$  mm between the antenna and user for both back surface and edge exposure conditions
- the antennas used by the host must have been tested for equipment approval or qualify for SAR test exclusion
- the antenna polarization, physical orientation, rotation and installation configurations used by the host must have been tested for compliance or qualify for test exclusion
- when the *SAR Test Exclusion Threshold* in KDB 447498 applies, a *test separation distance* of 5 mm is required to determine test exclusion for the tablet platform

The antennas embedded in tablets are typically  $\leq 5$ mm from the outer housing. The required antenna to user test separation distance is a “not to exceed test” distance required to apply the modular approach. Instead of the typical zero gap tablet edge test requirement between the edge of a tablet and the user, when an antenna has been tested at  $\leq 5$  mm according to the modular approach it can be incorporated into tablets with at least twice the tested distance from the outer housing of the tablet

edge; otherwise, the tablet edge zero gap test requirement applies. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom.

## 7. RF Output Power

### 7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune -	128	189	251	Tune -	128	189	251
Frequency (MHz)	up (dBm)	824.2	836.4	848.8	up (dBm)	824.2	836.4	848.8
GSM (GMSK)	33.00	32.63	32.68	32.55	23.97	23.60	23.65	23.52
GPRS(GMSK, 1 TS)	33.00	32.65	32.70	32.56	23.97	23.62	23.67	23.53
GPRS(GMSK, 2 TS)	32.00	31.72	31.76	31.61	25.98	25.70	25.74	25.59
GPRS(GMSK, 3 TS)	30.00	29.77	29.78	29.64	25.74	25.51	25.52	25.38
GPRS(GMSK, 4 TS)	29.00	28.65	28.67	28.54	25.99	25.64	25.66	25.53
EGPRS(8PSK, 1 TS)	26.50	25.84	26.31	25.80	17.47	16.81	17.28	16.77
EGPRS(8PSK, 2 TS)	25.00	24.89	24.77	24.48	18.98	18.87	18.75	18.46
EGPRS(8PSK, 3 TS)	23.00	22.51	22.15	21.61	18.74	18.25	17.89	17.35
EGPRS(8PSK, 4 TS)	21.50	21.13	21.02	20.59	18.49	18.12	18.01	17.58
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune -	512	661	810	Tune -	512	661	810
Frequency (MHz)	up (dBm)	1850.2	1880	1909.8	up (dBm)	1850.2	1880	1909.8
GSM (GMSK)	30.50	30.33	30.15	29.70	21.47	21.30	21.12	20.67
GPRS(GMSK, 1 TS)	30.50	30.32	30.13	29.69	21.47	21.29	21.10	20.66
GPRS(GMSK, 2 TS)	29.50	29.33	29.12	28.68	23.48	23.31	23.10	22.66
GPRS(GMSK, 3 TS)	27.50	27.24	27.06	26.63	23.24	22.98	22.80	22.37
GPRS(GMSK, 4 TS)	26.50	26.15	25.95	25.54	23.49	23.14	22.94	22.53
EGPRS(8PSK, 1 TS)	26.00	25.43	25.61	25.76	16.97	16.40	16.58	16.73
EGPRS(8PSK, 2 TS)	25.00	24.37	24.75	24.53	18.98	18.35	18.73	18.51
EGPRS(8PSK, 3 TS)	23.00	22.46	22.83	22.27	18.74	18.20	18.57	18.01
EGPRS(8PSK, 4 TS)	22.00	21.06	21.72	21.51	18.99	18.05	18.71	18.50

Note: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots. The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9.03 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3.01 dB

**7.2. WCDMA Conducted Power**

WCDMA Band 2		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538	
Frequency (MHz)		1852.4	1880	1907.6	
RMC12.2K	23.50	23.10	22.99	22.93	
HSDPA Sub 1	22.50	22.18	22.07	22.04	
HSDPA Sub 2	22.00	21.83	21.62	21.69	
HSDPA Sub 3	21.00	20.83	20.56	20.62	
HSDPA Sub 4	21.00	20.38	20.68	20.53	
HSUPA Sub 1	22.00	21.18	21.86	21.81	
HSUPA Sub 2	22.50	22.07	21.96	21.93	
HSUPA Sub 3	21.00	20.34	20.80	20.67	
HSUPA Sub 4	22.50	22.19	22.08	22.05	
HSUPA Sub 5	21.50	20.71	21.46	21.33	
WCDMA Band 4		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513	
Frequency (MHz)		1712.4	1732.6	1752.6	
RMC12.2K	23.50	22.94	22.94	23.05	
HSDPA Sub 1	22.50	21.96	21.96	22.09	
HSDPA Sub 2	22.00	21.56	21.49	21.76	
HSDPA Sub 3	21.00	20.62	20.57	20.53	
HSDPA Sub 4	21.00	20.57	20.61	20.72	
HSUPA Sub 1	22.00	20.88	21.80	21.86	
HSUPA Sub 2	22.00	20.75	21.78	21.95	
HSUPA Sub 3	21.00	20.24	20.66	20.76	
HSUPA Sub 4	22.50	21.97	21.97	22.09	
HSUPA Sub 5	21.50	20.74	21.10	21.35	
WCDMA Band 5		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233	
Frequency (MHz)		826.4	836.4	846.6	
RMC12.2K	23.00	22.70	22.68	22.63	
HSDPA Sub 1	22.00	21.77	21.72	21.67	
HSDPA Sub 2	21.50	21.35	21.20	21.37	
HSDPA Sub 3	20.50	20.34	20.31	20.32	
HSDPA Sub 4	20.50	20.38	20.31	20.06	
HSUPA Sub 1	22.00	20.53	21.49	21.52	

HSUPA Sub 2	22.00	21.65	21.62	21.58
HSUPA Sub 3	20.50	20.15	20.44	20.43
HSUPA Sub 4	22.00	21.75	21.71	21.67
HSUPA Sub 5	21.50	20.38	21.12	21.15

**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	24.50	23.75	24.02	24.19
			1	2	24.50	23.84	24.08	24.26
			1	5	24.50	23.78	24.03	24.18
			3	0	24.50	23.91	24.11	24.29
			3	1	24.50	23.93	24.14	24.31
			3	2	24.50	23.93	24.14	24.28
		16QAM	6	0	23.50	22.98	23.21	23.38
			1	0	24.00	23.12	23.38	23.40
			1	2	24.00	23.10	23.25	23.50
			1	5	24.00	23.14	23.23	23.50
			3	0	23.50	22.95	23.17	23.33
			3	1	23.50	22.94	23.18	23.31
			3	2	23.50	22.95	23.16	23.26
			6	0	22.50	22.09	22.28	22.47
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.50	23.69	23.89	24.05
			1	7	24.50	23.73	24.00	24.14
			1	14	24.50	23.70	23.92	24.03
			8	0	23.50	22.86	23.09	23.27
			8	4	23.50	22.92	23.15	23.30
			8	7	23.50	22.85	23.11	23.27
			15	0	23.50	22.83	23.08	23.25
		16QAM	1	0	23.50	22.98	23.19	23.22
			1	7	23.50	23.04	23.33	23.33
			1	14	23.50	22.97	23.23	23.33
			8	0	22.50	21.91	22.17	22.29



Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
			8	4	22.50	21.98	22.23	22.37
			8	7	22.50	21.91	22.16	22.33
			15	0	22.50	21.85	22.10	22.29
LTE Band 2	5MHz	QPSK	1	0	24.50	23.93	24.13	24.29
			1	12	24.50	24.08	24.28	24.44
			1	24	24.50	23.94	24.19	24.30
			12	0	23.50	22.99	23.17	23.32
			12	6	23.50	23.00	23.23	23.39
			12	11	23.50	22.91	23.21	23.34
			25	0	23.50	22.94	23.19	23.33
		16QAM	1	0	24.00	23.26	23.38	23.62
			1	12	24.00	23.35	23.52	23.66
			1	24	24.00	23.22	23.44	23.57
			12	0	22.50	21.96	22.16	22.31
			12	6	22.50	21.99	22.23	22.39
			12	11	22.50	21.90	22.17	22.34
			25	0	22.50	21.95	22.23	22.34
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.50	24.05	24.21	24.38
			1	24	24.50	24.09	24.27	24.45
			1	49	24.50	24.04	24.27	24.40
			25	0	23.50	23.07	23.14	23.30
			25	12	23.50	23.04	23.29	23.43
			25	24	23.50	22.86	23.15	23.39
			50	0	23.50	23.02	23.19	23.37
		16QAM	1	0	24.00	23.23	23.58	23.69
			1	24	24.00	23.34	23.66	23.77
			1	49	24.00	23.29	23.45	23.65
			25	0	22.50	22.10	22.14	22.30
			25	12	22.50	22.05	22.31	22.46
			25	24	22.50	21.89	22.19	22.39
			50	0	22.50	22.00	22.18	22.37
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width	Configuration	RB		(dBm)			
			Size	Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	24.50	23.96	24.22	24.35
			1	37	24.50	24.11	24.33	24.44
			1	74	24.50	24.07	24.23	24.37
			36	0	23.50	23.09	23.16	23.33
			36	18	23.50	23.04	23.27	23.43
			36	37	23.50	23.03	23.21	23.41
			75	0	23.50	23.09	23.21	23.40
		16QAM	1	0	24.00	23.30	23.53	23.61
			1	37	24.00	23.38	23.61	23.65
			1	74	24.00	23.28	23.49	23.66
			36	0	22.50	22.10	22.12	22.33
			36	18	22.50	22.05	22.28	22.43
			36	37	22.50	22.03	22.20	22.41
			75	0	22.50	22.08	22.19	22.39
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.50	23.87	24.11	24.23
			1	49	24.50	24.09	24.30	24.46
			1	99	24.50	24.07	24.10	24.29
			50	0	24.00	23.30	23.12	23.37
			50	24	24.00	23.16	23.32	23.49
			50	49	24.00	23.20	23.18	23.52
			100	0	23.50	23.24	23.13	23.47
		16QAM	1	0	24.00	23.16	23.34	23.41
			1	49	24.00	23.32	23.62	23.74
			1	99	24.00	23.36	23.41	23.47
			50	0	23.00	22.32	22.11	22.36
			50	24	23.00	22.16	22.30	22.47
			50	49	23.00	22.19	22.17	22.51
			100	0	22.50	22.22	22.11	22.44
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3

LTE Band 4	1.4MHz	QPSK	1	0	24.00	23.24	23.52	23.56
			1	2	24.00	23.31	23.57	23.63
			1	5	24.00	23.29	23.50	23.59
			3	0	24.00	23.35	23.63	23.66
			3	1	24.00	23.36	23.64	23.69
			3	2	24.00	23.35	23.64	23.70
		16QAM	6	0	23.00	22.43	22.75	22.80
			1	0	23.00	22.39	22.75	22.66
			1	2	23.00	22.50	22.77	22.66
			1	5	23.00	22.35	22.66	22.74
			3	0	23.00	22.21	22.51	22.59
			3	1	23.00	22.20	22.63	22.50
			3	2	23.00	22.16	22.62	22.53
			6	0	22.00	21.48	21.80	21.82
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.00	23.08	23.43	23.40
			1	7	24.00	23.21	23.51	23.55
			1	14	24.00	23.12	23.43	23.44
			8	0	23.00	22.30	22.62	22.65
			8	4	23.00	22.40	22.70	22.72
			8	7	23.00	22.35	22.66	22.67
			15	0	23.00	22.37	22.68	22.72
		16QAM	1	0	23.00	22.18	22.65	22.45
			1	7	23.00	22.26	22.76	22.72
			1	14	23.00	22.20	22.62	22.56
			8	0	22.00	21.29	21.67	21.65
			8	4	22.00	21.38	21.73	21.73
			8	7	22.00	21.30	21.69	21.63
			15	0	22.00	21.28	21.65	21.63
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	24.00	23.30	23.57	23.49
			1	12	24.00	23.46	23.75	23.64
			1	24	24.00	23.36	23.65	23.58
			12	0	23.00	22.40	22.66	22.64

			12	6	23.00	22.47	22.78	22.71
			12	11	23.00	22.43	22.75	22.67
			25	0	23.00	22.44	22.72	22.71
		16QAM	1	0	23.50	22.50	22.79	22.63
			1	12	23.50	22.55	23.02	22.74
			1	24	23.50	22.39	22.84	22.63
			12	0	22.00	21.35	21.62	21.56
			12	6	22.00	21.37	21.77	21.64
			12	11	22.00	21.33	21.76	21.60
			25	0	22.00	21.40	21.72	21.67
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	24.00	23.38	23.66	23.61
			1	24	24.00	23.47	23.76	23.65
			1	49	24.00	23.48	23.78	23.68
			25	0	23.00	22.42	22.68	22.63
			25	12	23.00	22.53	22.79	22.72
			25	24	23.00	22.52	22.79	22.65
		16QAM	50	0	23.00	22.50	22.76	22.70
			1	0	23.50	22.58	22.77	22.76
			1	24	23.50	22.44	23.05	22.86
			1	49	23.50	22.60	23.02	22.85
			25	0	22.00	21.34	21.68	21.61
			25	12	22.00	21.46	21.79	21.68
			25	24	22.00	21.42	21.80	21.61
			50	0	22.00	21.40	21.71	21.62
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	24.00	23.31	23.55	23.54
			1	37	24.00	23.53	23.78	23.69
			1	74	24.00	23.55	23.74	23.61
			36	0	23.00	22.46	22.68	22.56
			36	18	23.00	22.54	22.76	22.70
			36	37	23.00	22.54	22.83	22.66
			75	0	23.00	22.54	22.79	22.66
		16QAM	1	0	23.50	22.51	22.63	22.68

			1	37	23.50	22.48	23.05	22.87
			1	74	23.50	22.58	22.96	22.78
			36	0	22.00	21.36	21.66	21.56
			36	18	22.00	21.44	21.73	21.68
			36	37	22.00	21.45	21.83	21.63
			75	0	22.00	21.45	21.75	21.61
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	24.00	23.26	23.46	23.42
			1	49	24.00	23.49	23.81	23.64
			1	99	24.00	23.48	23.65	23.54
			50	0	23.00	22.54	22.73	22.56
			50	24	23.00	22.66	22.83	22.73
			50	49	23.00	22.66	22.93	22.72
			100	0	23.00	22.58	22.80	22.60
		16QAM	1	0	23.50	22.41	22.56	22.68
			1	49	23.50	22.60	23.03	22.87
			1	99	23.50	22.57	22.81	22.71
			50	0	22.00	21.40	21.64	21.52
			50	24	22.00	21.50	21.79	21.69
			50	49	22.00	21.54	21.90	21.64
			100	0	22.00	21.44	21.75	21.54

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	24.00	23.00	23.21	23.12
			1	2	24.00	23.09	23.27	23.18
			1	5	24.00	22.99	23.25	23.08
			3	0	23.50	23.12	23.30	23.20
			3	1	23.50	23.15	23.29	23.20
			3	2	23.50	23.15	23.30	23.22
			6	0	22.50	22.21	22.41	22.34
		16QAM	1	0	23.00	22.27	22.48	22.43
			1	2	23.00	22.46	22.65	22.44
			1	5	23.00	22.25	22.41	22.41
			3	0	22.50	22.19	22.32	22.22

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
			3	1	22.50	22.16	22.39	22.24
			3	2	22.50	22.07	22.26	22.28
			6	0	21.50	21.34	21.47	21.47
LTE Band 5	3MHz	QPSK	1	0	24.00	22.94	23.10	23.05
			1	7	24.00	23.04	23.23	23.12
			1	14	24.00	22.93	23.11	23.00
			8	0	22.50	22.12	22.27	22.24
			8	4	22.50	22.20	22.38	22.30
			8	7	22.50	22.12	22.30	22.22
			15	0	22.50	22.11	22.29	22.24
		16QAM	1	0	22.50	22.27	22.35	22.33
			1	7	22.50	22.36	22.43	22.38
			1	14	22.50	22.29	22.37	22.22
			8	0	21.50	21.17	21.36	21.33
			8	4	21.50	21.21	21.46	21.38
			8	7	21.50	21.19	21.38	21.28
			15	0	21.50	21.12	21.29	21.28
LTE Band 5	5MHz	QPSK	1	0	24.00	23.16	23.33	23.33
			1	12	24.00	23.31	23.48	23.37
			1	24	24.00	23.24	23.36	23.21
			12	0	22.50	22.23	22.36	22.41
			12	6	22.50	22.28	22.45	22.37
			12	11	22.50	22.23	22.40	22.25
			25	0	22.50	22.23	22.38	22.35
		16QAM	1	0	23.00	22.56	22.68	22.52
			1	12	23.00	22.57	22.82	22.71
			1	24	23.00	22.54	22.62	22.50
			12	0	21.50	21.24	21.37	21.42
			12	6	21.50	21.29	21.43	21.38
			12	11	21.50	21.22	21.42	21.29
			25	0	21.50	21.28	21.41	21.37
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		(dBm)			
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	24.00	23.27	23.39	23.44
			1	24	24.00	23.35	23.50	23.44
			1	49	24.00	23.40	23.43	23.32
			25	0	22.50	22.28	22.33	22.39
			25	12	22.50	22.32	22.45	22.42
			25	24	22.50	22.30	22.39	22.20
			50	0	22.50	22.33	22.37	22.32
		16QAM	1	0	23.00	22.58	22.72	22.75
			1	24	23.00	22.60	22.68	22.68
			1	49	23.00	22.70	22.78	22.52
			25	0	21.50	21.31	21.35	21.40
			25	12	21.50	21.36	21.47	21.46
			25	24	21.50	21.33	21.45	21.21
			50	0	21.50	21.34	21.38	21.32

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	25.00	24.33	24.39	24.46
			1	12	25.00	24.50	24.55	24.53
			1	24	25.00	24.40	24.45	24.38
			12	0	24.00	23.42	23.50	23.60
			12	6	24.00	23.47	23.54	23.56
			12	11	24.00	23.44	23.49	23.41
			25	0	24.00	23.43	23.48	23.50
		16QAM	1	0	24.00	23.56	23.65	23.68
			1	12	24.00	23.71	23.91	23.90
			1	24	24.00	23.71	23.79	23.69
			12	0	23.00	22.47	22.53	22.61
			12	6	23.00	22.54	22.58	22.59
			12	11	23.00	22.48	22.52	22.43
			25	0	23.00	22.50	22.53	22.53
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	25.00	24.40	24.46	24.54
			1	24	25.00	24.56	24.59	24.61
			1	49	25.00	24.55	24.56	24.48
			25	0	24.00	23.49	23.53	23.62
			25	12	24.00	23.54	23.57	23.60
			25	24	24.00	23.48	23.48	23.40
			50	0	24.00	23.53	23.52	23.54
		16QAM	1	0	24.00	23.73	23.67	23.77
			1	24	24.00	23.87	23.91	23.91
			1	49	24.00	23.89	23.84	23.74
			25	0	23.00	22.53	22.59	22.63
			25	12	23.00	22.59	22.60	22.64
			25	24	23.00	22.50	22.52	22.44
			50	0	23.00	22.53	22.53	22.53
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	25.00	24.40	24.38	24.42
			1	37	25.00	24.61	24.59	24.61
			1	74	25.00	24.42	24.51	24.45
			36	0	24.00	23.47	23.46	23.47
			36	18	24.00	23.54	23.55	23.61
			36	37	24.00	23.48	23.48	23.45
			75	0	24.00	23.51	23.50	23.50
		16QAM	1	0	24.00	23.60	23.73	23.67
			1	37	24.00	23.87	23.85	23.93
			1	74	24.00	23.79	23.81	23.78
			36	0	23.00	22.50	22.49	22.47
			36	18	23.00	22.54	22.55	22.63
			36	37	23.00	22.51	22.50	22.48
			75	0	23.00	22.51	22.50	22.50
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	25.00	24.29	24.26	24.37
			1	49	25.00	24.61	24.59	24.57
			1	99	25.00	24.28	24.41	24.36
			50	0	24.00	23.53	23.47	23.40



			50	24	24.00	23.55	23.60	23.65
			50	49	24.00	23.47	23.39	23.46
			100	0	23.50	23.48	23.42	23.41
		16QAM	1	0	24.00	23.57	23.53	23.66
			1	49	24.00	23.87	23.82	23.89
			1	99	24.00	23.53	23.69	23.58
			50	0	23.00	22.56	22.46	22.39
			50	24	23.00	22.56	22.61	22.65
			50	49	23.00	22.47	22.40	22.47
			100	0	22.50	22.48	22.41	22.39

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	24.00	23.73	23.66	23.59
			1	2	24.00	23.81	23.72	23.68
			1	5	24.00	23.75	23.65	23.59
			3	0	24.00	23.87	23.76	23.71
			3	1	24.00	23.89	23.77	23.71
			3	2	24.00	23.87	23.76	23.71
			6	0	23.00	22.96	22.84	22.81
		16QAM	1	0	23.50	23.08	23.01	22.90
			1	2	23.50	23.06	23.04	22.89
			1	5	23.50	22.94	22.90	22.94
			3	0	23.00	22.93	22.74	22.75
			3	1	23.00	22.92	22.70	22.75
			3	2	23.00	22.89	22.77	22.74
			6	0	22.50	22.14	22.05	21.91

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	24.00	23.67	23.59	23.47
			1	7	24.00	23.73	23.60	23.59
			1	14	24.00	23.57	23.48	23.48
			8	0	23.00	22.82	22.74	22.69
			8	4	23.00	22.90	22.80	22.75
			8	7	23.00	22.81	22.74	22.69
			15	0	23.00	22.83	22.71	22.68

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
16QAM			1	0	23.00	22.99	22.79	22.65
			1	7	23.00	22.99	22.89	22.75
			1	14	23.00	22.97	22.88	22.70
			8	0	22.50	22.02	21.91	21.83
			8	4	22.50	22.06	21.95	21.90
			8	7	22.50	21.98	21.90	21.72
			15	0	22.00	21.94	21.82	21.76
LTE Band 12	5MHz	QPSK	1	0	24.00	23.91	23.77	23.18
			1	12	24.00	23.96	23.82	23.30
			1	24	24.00	23.83	23.51	23.29
			12	0	23.00	22.90	22.61	22.28
			12	6	23.00	22.92	22.67	22.31
			12	11	23.00	22.85	22.50	22.21
			25	0	23.00	22.83	22.48	22.24
		16QAM	1	0	23.50	23.12	22.77	22.52
			1	12	23.50	23.19	22.79	22.64
			1	24	23.50	23.04	22.54	22.41
			12	0	22.00	22.00	21.41	21.37
			12	6	22.00	21.97	21.59	21.42
			12	11	22.00	21.92	21.51	21.29
			25	0	22.00	21.98	21.56	21.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	24.00	23.51	23.43	23.42
			1	24	24.00	23.47	23.42	23.34
			1	49	24.00	23.33	23.28	23.30
			25	0	22.50	22.43	22.36	22.14
			25	12	22.50	22.42	22.37	22.27
			25	24	22.50	22.36	22.40	22.16
			50	0	22.50	22.44	22.38	22.16
		16QAM	1	0	23.00	22.79	22.78	22.66
			1	24	23.00	22.83	22.75	22.65
			1	49	23.00	22.68	22.58	22.50
25	0		22.00	21.57	21.49	21.24		

			25	12	22.00	21.57	21.52	21.41
			25	24	22.00	21.49	21.51	21.27
			50	0	22.00	21.55	21.49	21.25

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	24.00	23.84	23.36	23.25
			1	12	24.00	23.94	23.42	23.34
			1	24	24.00	23.79	23.21	23.19
			12	0	23.00	22.93	22.35	22.25
			12	6	23.00	22.80	22.43	22.34
			12	11	23.00	22.70	22.36	22.34
		16QAM	25	0	23.00	22.67	22.38	22.29
			1	0	23.00	22.82	22.57	22.50
			1	12	23.00	22.96	22.69	22.59
			1	24	23.00	22.71	22.39	22.45
			12	0	22.00	21.60	21.34	21.23
			12	6	22.00	21.53	21.37	21.32
			12	11	22.00	21.49	21.33	21.29
			25	0	22.00	21.55	21.40	21.29
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	23230/782	N/A
LTE Band 13	10MHz	QPSK	1	0	24.00	N/A	23.44	N/A
			1	24	24.00	N/A	23.40	N/A
			1	49	24.00	N/A	23.30	N/A
			25	0	22.50	N/A	22.42	N/A
			25	12	22.50	N/A	22.43	N/A
			25	24	22.50	N/A	22.39	N/A
			50	0	22.50	N/A	22.42	N/A
		16QAM	1	0	23.00	N/A	22.74	N/A
			1	24	23.00	N/A	22.71	N/A
			1	49	23.00	N/A	22.58	N/A
			25	0	21.50	N/A	21.41	N/A
			25	12	21.50	N/A	21.41	N/A
			25	24	21.50	N/A	21.40	N/A
			50	0	21.50	N/A	21.41	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23305/790.5	23330/793	23355/795.5
LTE Band 14	5MHz	QPSK	1	0	24.00	23.87	23.79	23.81
			1	12	24.00	23.93	23.90	23.88
			1	24	24.00	23.77	23.71	23.78
			12	0	23.00	22.85	22.83	22.83
			12	6	23.00	22.94	22.92	22.92
			12	11	23.00	22.88	22.86	22.86
			25	0	23.00	22.90	22.86	22.86
		16QAM	1	0	23.50	22.96	22.99	23.02
			1	12	23.50	23.12	23.05	23.05
			1	24	23.50	22.97	22.85	22.99
			12	0	22.00	21.81	21.80	21.81
			12	6	22.00	21.93	21.90	21.86
			12	11	22.00	21.85	21.83	21.83
			25	0	22.00	21.89	21.84	21.83
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	23330/793	N/A
LTE Band 14	10MHz	QPSK	1	0	24.00	N/A	23.94	N/A
			1	24	24.00	N/A	23.87	N/A
			1	49	24.00	N/A	23.83	N/A
			25	0	23.00	N/A	22.83	N/A
			25	12	23.00	N/A	22.92	N/A
			25	24	23.00	N/A	22.83	N/A
			50	0	23.00	N/A	22.89	N/A
		16QAM	1	0	23.50	N/A	23.09	N/A
			1	24	23.50	N/A	23.00	N/A
			1	49	23.50	N/A	23.09	N/A
			25	0	22.00	N/A	21.81	N/A
			25	12	22.00	N/A	21.90	N/A
			25	24	22.00	N/A	21.82	N/A
			50	0	22.00	N/A	21.83	N/A

Band	Band Width	Modulation	RB Configuration	Tune-up (dBm)	Channel/Frequency(MHz)
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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	5MHz	QPSK	1	0	24.00	23755/706.5	23790/710	23825/713.5
			1	12	24.00	23.89	23.31	23.21
			1	24	24.00	23.97	23.41	23.37
			12	0	23.00	23.77	23.19	23.26
			12	6	23.00	22.88	22.24	22.25
			12	11	23.00	22.90	22.35	22.32
			25	0	23.00	22.83	22.33	22.23
		16QAM	1	0	23.00	22.79	22.30	22.24
			1	12	23.00	22.90	22.59	22.56
			1	24	23.00	22.97	22.68	22.54
			12	0	22.00	22.60	22.50	22.57
			12	6	22.00	21.57	21.35	21.31
			12	11	22.00	21.56	21.48	21.43
			25	0	22.00	21.54	21.43	21.29

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	24.50	24.16	24.23	24.07

Band 25			1	2	24.50	24.26	24.16	24.12
			1	5	24.50	24.17	23.93	24.04
			3	0	24.50	24.31	24.01	24.19
			3	1	24.50	24.35	24.02	24.20
			3	2	24.50	24.31	24.00	24.18
			6	0	23.50	23.39	23.08	23.28
		16QAM	1	0	24.00	23.49	23.20	23.30
			1	2	24.00	23.63	23.30	23.34
			1	5	24.00	23.40	23.20	23.24
			3	0	23.50	23.37	23.02	23.21
			3	1	23.50	23.39	23.06	23.13
			3	2	23.50	23.29	22.97	23.21
			6	0	22.50	22.36	22.22	22.42
		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	24.50	23.61	23.83	24.00
			1	7	24.50	23.70	23.91	24.04
			1	14	24.50	23.62	23.83	23.99
			8	0	23.50	22.79	23.00	23.20
			8	4	23.50	22.85	23.06	23.24
			8	7	23.50	22.80	23.00	23.19
			15	0	23.50	22.78	22.98	23.19
		16QAM	1	0	23.50	22.96	23.07	23.23
			1	7	23.50	23.00	23.12	23.29
			1	14	23.50	22.84	23.12	23.29
			8	0	22.50	21.87	22.08	22.27
			8	4	22.50	21.91	22.13	22.31
			8	7	22.50	21.85	22.05	22.25
			15	0	22.50	21.79	22.02	22.20
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	24.50	23.87	24.09	24.22
			1	12	24.50	24.00	24.18	24.34
			1	24	24.50	23.87	24.08	24.23
			12	0	23.50	22.91	23.11	23.27
			12	6	23.50	22.93	23.15	23.34

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26090/1855	26365/1882.5	26640/1910
		16QAM	12	11	23.50	22.85	23.07	23.26
			25	0	23.50	22.88	23.09	23.30
			1	0	24.00	23.21	23.30	23.49
			1	12	24.00	23.30	23.52	23.57
			1	24	24.00	23.22	23.40	23.52
			12	0	22.50	21.95	22.13	22.31
			12	6	22.50	21.93	22.17	22.34
			12	11	22.50	21.83	22.09	22.29
			25	0	22.50	21.90	22.12	22.31
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	24.50	23.98	24.21	24.31
			1	24	24.50	24.00	24.19	24.38
			1	49	24.50	24.01	24.17	24.32
			25	0	23.50	22.99	23.08	23.26
			25	12	23.50	23.00	23.17	23.35
			25	24	23.50	22.83	23.08	23.24
		16QAM	50	0	23.50	22.95	23.11	23.26
			1	0	24.00	23.30	23.44	23.60
			1	24	24.00	23.30	23.41	23.60
			1	49	24.00	23.25	23.36	23.62
			25	0	22.50	22.02	22.11	22.27
			25	12	22.50	22.02	22.19	22.37
			25	24	22.50	21.86	22.11	22.29
			50	0	22.50	21.96	22.10	22.25
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	24.50	23.95	24.11	24.21
			1	37	24.50	24.06	24.23	24.40
			1	74	24.50	23.99	24.11	24.30
			36	0	23.50	23.05	23.08	23.22
			36	18	23.50	23.01	23.15	23.30
			36	37	23.50	22.95	23.06	23.27
			75	0	23.50	23.01	23.10	23.26
		16QAM	1	0	24.00	23.31	23.35	23.50
			1	37	24.00	23.39	23.54	23.60

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26140/1860	26365/1882.5	26590/1905
			1	74	24.00	23.14	23.41	23.54
			36	0	22.50	22.07	22.10	22.22
			36	18	22.50	22.01	22.14	22.33
			36	37	22.50	21.97	22.08	22.28
			75	0	22.50	22.00	22.09	22.25
LTE Band 25	20MHz	QPSK	1	0	24.50	23.34	23.51	23.63
			1	49	24.50	24.06	24.22	24.34
			1	99	24.50	23.95	24.05	24.22
			50	0	23.50	23.23	23.07	23.18
			50	24	23.50	23.08	23.20	23.35
			50	49	23.50	23.12	23.04	23.28
			100	0	23.50	23.19	23.03	23.22
		16QAM	1	0	24.00	22.67	22.84	22.97
			1	49	24.00	23.37	23.56	23.52
			1	99	24.00	23.29	23.26	23.43
			50	0	22.50	22.23	22.07	22.15
			50	24	22.50	22.11	22.19	22.34
			50	49	22.50	22.12	22.06	22.29
			100	0	22.50	22.18	22.02	22.21

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE Band 26a	1.4MHz	QPSK	1	0	24.00	23.73	23.69	23.65
			1	2	24.00	23.81	23.79	23.70
			1	5	24.00	23.69	23.68	23.65
			3	0	24.00	23.83	23.81	23.74
			3	1	24.00	23.87	23.79	23.77
			3	2	24.00	23.85	23.78	23.76
		16QAM	1	0	23.50	23.00	22.89	23.00
			1	2	23.50	23.04	23.03	22.94
			1	5	23.50	22.98	23.00	23.06
			3	0	23.00	22.78	22.80	22.83
			3	1	23.00	22.79	22.87	22.78



Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26705/818.5	26740/819	26775/822.5
			3	2	23.00	22.81	22.85	22.68
			6	0	22.50	22.06	21.98	21.99
LTE Band 26a	3MHz	QPSK	1	0	24.00	23.70	23.60	23.59
			1	7	24.00	23.76	23.72	23.61
			1	14	24.00	23.61	23.61	23.53
			8	0	23.00	22.84	22.82	22.77
			8	4	23.00	22.90	22.89	22.83
			8	7	23.00	22.86	22.82	22.77
			15	0	23.00	22.82	22.82	22.76
		16QAM	1	0	23.50	22.85	22.89	22.77
			1	7	23.50	23.05	23.04	22.90
			1	14	23.50	22.87	22.83	22.85
			8	0	22.00	21.89	21.90	21.83
			8	4	22.00	21.99	21.95	21.91
			8	7	22.00	21.94	21.90	21.79
			15	0	22.00	21.85	21.82	21.76
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5
LTE Band 26a	5MHz	QPSK	1	0	24.00	23.91	23.86	23.89
			1	12	24.00	23.99	23.98	23.90
			1	24	24.00	23.86	23.81	23.82
			12	0	23.00	22.93	22.87	22.77
			12	6	23.00	22.98	22.97	22.89
			12	11	23.00	22.96	22.94	22.86
			25	0	23.00	22.96	22.92	22.78
		16QAM	1	0	23.50	23.20	23.11	23.13
			1	12	23.50	23.19	23.28	23.05
			1	24	23.50	23.19	23.03	22.98
			12	0	22.50	21.94	21.88	21.78
			12	6	22.50	22.01	21.91	21.83
			12	11	22.50	21.96	21.96	21.84
			25	0	22.00	21.98	21.95	21.82
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

Band	Band Width	Modulation	RB Size	RB Offset	Tune-up (dBm)	Channel/Frequency(MHz)	26797/824.7	26915/836.5	27033/848.3
LTE Band 26a	10MHz	QPSK	1	0	24.00	N/A	26740/819	N/A	N/A
			1	24	24.00	N/A	23.94	N/A	N/A
			1	49	24.00	N/A	23.73	N/A	N/A
			25	0	23.00	N/A	23.59	N/A	N/A
			25	12	23.00	N/A	22.67	N/A	N/A
			25	24	23.00	N/A	22.65	N/A	N/A
			50	0	23.00	N/A	22.67	N/A	N/A
		16QAM	1	0	23.00	N/A	22.69	N/A	N/A
			1	24	23.00	N/A	22.99	N/A	N/A
			1	49	23.00	N/A	23.00	N/A	N/A
			25	0	22.00	N/A	22.85	N/A	N/A
			25	12	22.00	N/A	21.53	N/A	N/A
			25	24	22.00	N/A	21.64	N/A	N/A
			50	0	22.00	N/A	21.58	N/A	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	24.00	23.14	23.27	23.25
			1	2	24.00	23.24	23.38	23.26
			1	5	24.00	23.15	23.31	23.16
			3	0	23.50	23.28	23.37	23.32
			3	1	23.50	23.29	23.42	23.34
			3	2	23.50	23.28	23.41	23.31
			6	0	23.00	22.36	22.50	22.45
		16QAM	1	0	23.00	22.37	22.61	22.45
			1	2	23.00	22.61	22.67	22.48
			1	5	23.00	22.53	22.48	22.54
			3	0	22.50	22.28	22.44	22.40
			3	1	22.50	22.26	22.43	22.38
			3	2	22.50	22.26	22.44	22.29
			6	0	22.00	21.45	21.60	21.55
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26805/825.5	26915/836.5	27025/847.5
LTE	3MHz	QPSK	1	0	24.00	23.08	23.24	23.18

Band 26b			1	7	24.00	23.20	23.35	23.27
			1	14	24.00	23.12	23.25	23.08
			8	0	22.50	22.29	22.41	22.43
			8	4	22.50	22.33	22.48	22.47
			8	7	22.50	22.30	22.45	22.35
			15	0	22.50	22.25	22.43	22.41
		16QAM	1	0	23.00	22.22	22.46	22.48
			1	7	23.00	22.40	22.67	22.56
			1	14	23.00	22.46	22.59	22.36
			8	0	22.00	21.36	21.46	21.52
			8	4	22.00	21.40	21.56	21.54
			8	7	22.00	21.36	21.52	21.44
			15	0	21.50	21.25	21.45	21.41
		Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)
RB Size	RB Offset				26815/826.5	26915/836.5		27015/846.5
LTE Band 26b	5MHz	QPSK	1	0	24.00	23.33	23.47	23.46
			1	12	24.00	23.46	23.60	23.51
			1	24	24.00	23.37	23.48	23.34
			12	0	23.00	22.38	22.47	22.59
			12	6	23.00	22.43	22.58	22.55
			12	11	23.00	22.34	22.54	22.41
			25	0	23.00	22.35	22.53	22.52
		16QAM	1	0	23.00	22.67	22.72	22.82
			1	12	23.00	22.82	22.88	22.70
			1	24	23.00	22.69	22.80	22.60
			12	0	22.00	21.35	21.51	21.57
			12	6	22.00	21.43	21.60	21.59
			12	11	22.00	21.34	21.52	21.43
			25	0	22.00	21.37	21.55	21.56
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
LTE Band 26b	10MHz	QPSK	1	0	24.00	23.41	23.53	23.59
			1	24	24.00	23.50	23.59	23.60
			1	49	24.00	23.53	23.57	23.41
			25	0	23.00	22.43	22.44	22.57
			25	12	23.00	22.43	22.59	22.61

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	16QAM	25	24	23.00	22.45	22.52	22.34
			50	0	23.00	22.45	22.52	22.49
			1	0	23.00	22.67	22.72	22.88
			1	24	23.00	22.81	22.96	22.77
			1	49	23.00	22.83	22.84	22.71
			25	0	22.00	21.48	21.50	21.59
			25	12	22.00	21.49	21.64	21.62
			25	24	22.00	21.45	21.55	21.39
		50	0	22.00	21.43	21.52	21.52	
		QPSK	1	0	24.00	23.36	23.45	23.52
			1	37	24.00	23.54	23.61	23.66
			1	74	24.00	23.55	23.53	23.39
			36	0	23.00	22.44	22.49	22.54
			36	18	23.00	22.53	22.58	22.60
			36	37	23.00	22.53	22.56	22.45
			75	0	23.00	22.50	22.53	22.53
16QAM	1		0	23.00	22.63	22.77	22.86	
	1	37	23.00	22.86	22.99	23.00		
	1	74	23.00	22.82	22.73	22.71		
	36	0	22.00	21.43	21.48	21.56		
	36	18	22.00	21.54	21.58	21.57		
	36	37	22.00	21.54	21.57	21.46		
	75	0	22.00	21.52	21.54	21.53		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675	40620	41565
LTE Band 41	5MHz	QPSK	1	0	25.00	24.57	24.87	24.68
			1	12	25.00	24.64	24.92	24.81
			1	24	25.00	24.55	24.79	24.70
			12	0	24.00	23.55	23.86	23.78
			12	6	24.00	23.62	23.90	23.82
			12	11	24.00	23.59	23.84	23.77
			25	0	24.00	23.58	23.90	23.79
		16QAM	1	0	24.50	23.72	24.04	23.87
			1	12	24.50	23.87	24.14	24.00

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39700	40620	41540
			1	24	24.50	23.79	23.98	23.89
			12	0	23.00	22.59	22.92	22.80
			12	6	23.00	22.67	22.94	22.86
			12	11	23.00	22.66	22.89	22.80
			25	0	23.00	22.66	22.98	22.87
LTE Band 41	10MHz	QPSK	1	0	25.00	24.63	24.96	24.78
			1	24	25.00	24.70	24.96	24.79
			1	49	25.00	24.75	24.80	24.76
			25	0	24.00	23.59	23.95	23.81
			25	12	24.00	23.67	23.93	23.82
			25	24	24.00	23.69	23.88	23.79
		16QAM	50	0	24.00	23.66	23.91	23.83
			1	0	24.50	23.84	24.16	23.97
			1	24	24.50	23.92	24.16	24.00
			1	49	24.50	23.96	24.02	23.97
			25	0	23.50	22.66	23.00	22.87
			25	12	23.50	22.74	23.02	22.89
			25	24	23.50	22.75	22.94	22.85
			50	0	23.00	22.70	22.97	22.87
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39725	40620	41515
LTE Band 41	15MHz	QPSK	1	0	25.00	24.58	24.90	24.70
			1	37	25.00	24.78	24.96	24.78
			1	74	25.00	24.70	24.71	24.72
			36	0	24.00	23.59	23.91	23.79
			36	18	24.00	23.68	23.91	23.84
			36	37	24.00	23.70	23.82	23.76
			75	0	24.00	23.66	23.90	23.81
		16QAM	1	0	24.50	23.78	24.10	23.89
			1	37	24.50	23.99	24.17	23.98
			1	74	24.50	23.89	23.92	23.90
			36	0	23.00	22.60	22.92	22.77
			36	18	23.00	22.69	22.92	22.83
			36	37	23.00	22.71	22.83	22.77
			75	0	23.00	22.69	22.94	22.84
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	39750	40620	41490
LTE Band 41	20MHz	QPSK	1	0	25.00	24.51	24.78	24.58
			1	49	25.00	24.81	24.95	24.81
			1	99	25.00	24.56	24.57	24.62
			50	0	24.00	23.60	23.88	23.80
			50	24	24.00	23.73	23.95	23.85
			50	49	24.00	23.72	23.81	23.79
			100	0	24.00	23.66	23.82	23.79
		16QAM	1	0	24.50	23.69	23.98	23.74
			1	49	24.50	24.01	24.17	23.99
			1	99	24.50	23.76	23.76	23.82
			50	0	23.50	22.66	22.96	22.80
			50	24	23.50	22.79	23.01	22.90
			50	49	23.50	22.78	22.87	22.81
			100	0	23.00	22.69	22.88	22.79

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	24.00	23.68	23.35	23.68
			1	2	24.00	23.54	23.39	23.74
			1	5	24.00	23.26	23.35	23.66
			3	0	24.00	23.39	23.45	23.77
			3	1	24.00	23.34	23.47	23.80
			3	2	24.00	23.29	23.48	23.81
			6	0	23.00	22.39	22.56	22.91
		16QAM	1	0	23.00	22.25	22.56	22.83
			1	2	23.00	22.32	22.57	22.92
			1	5	23.00	22.30	22.53	22.80
			3	0	23.00	22.22	22.36	22.69
			3	1	23.00	22.20	22.42	22.71
			3	2	23.00	22.14	22.43	22.72
			6	0	22.00	21.39	21.66	21.99
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE	3MHz	QPSK	1	0	24.00	23.03	23.25	23.47

Band 66			1	7	24.00	23.13	23.34	23.54
			1	14	24.00	23.05	23.26	23.45
			8	0	23.00	22.24	22.45	22.72
			8	4	23.00	22.31	22.54	22.75
			8	7	23.00	22.26	22.48	22.69
			15	0	23.00	22.28	22.48	22.74
			15	7	23.00	22.22	22.51	22.68
		16QAM	1	7	23.00	22.33	22.60	22.74
			1	14	23.00	22.22	22.42	22.62
			8	0	22.00	21.25	21.54	21.75
			8	4	22.00	21.29	21.55	21.76
			8	7	22.00	21.22	21.53	21.71
			15	0	22.00	21.21	21.45	21.69
			15	7	22.00	21.22	21.53	21.71
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	24.00	23.26	23.46	23.73
			1	12	24.00	23.39	23.60	23.82
			1	24	24.00	23.23	23.46	23.69
			12	0	23.00	22.33	22.51	22.81
			12	6	23.00	22.38	22.61	22.85
			12	11	23.00	22.37	22.57	22.75
			25	0	23.00	22.38	22.57	22.83
		16QAM	1	0	23.50	22.37	22.69	22.89
			1	12	23.50	22.55	22.85	23.07
			1	24	23.50	22.30	22.69	22.83
			12	0	22.00	21.26	21.51	21.80
			12	6	22.00	21.27	21.59	21.79
			12	11	22.00	21.29	21.56	21.73
			25	0	22.00	21.31	21.56	21.80
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	24.00	23.34	23.61	23.80
			1	24	24.00	23.39	23.60	23.89
			1	49	24.00	23.41	23.58	23.77
			25	0	23.00	22.35	22.50	22.79
			25	12	23.00	22.47	22.62	22.90

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
		16QAM	25	24	23.00	22.43	22.62	22.76
			50	0	23.00	22.41	22.62	22.80
			1	0	23.50	22.43	22.76	22.97
			1	24	23.50	22.38	22.89	23.16
			1	49	23.50	22.43	22.77	22.92
			25	0	22.00	21.26	21.50	21.78
			25	12	22.00	21.35	21.60	21.90
			25	24	22.00	21.33	21.60	21.75
			50	0	22.00	21.30	21.58	21.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	15MHz	QPSK	1	0	24.00	23.28	23.51	23.75
			1	37	24.00	23.41	23.62	23.89
			1	74	24.00	23.43	23.57	23.77
			36	0	23.00	22.34	22.51	22.78
			36	18	23.00	22.46	22.63	22.87
			36	37	23.00	22.46	22.62	22.82
			75	0	23.00	22.44	22.62	22.82
		16QAM	1	0	23.50	22.39	22.65	22.96
			1	37	23.50	22.52	22.76	23.19
			1	74	23.50	22.59	22.68	22.88
			36	0	22.00	21.26	21.50	21.76
			36	18	22.00	21.34	21.59	21.85
			36	37	22.00	21.38	21.60	21.82
			75	0	22.00	21.32	21.57	21.80
LTE Band 66	20MHz	QPSK	1	0	24.00	23.16	23.38	23.55
			1	49	24.00	23.44	23.60	23.89
			1	99	24.00	23.44	23.47	23.68
			50	0	23.00	22.45	22.52	22.86
			50	24	23.00	22.57	22.69	22.96
			50	49	23.00	22.57	22.67	22.87
			100	0	23.00	22.48	22.55	22.86
		16QAM	1	0	23.50	22.34	22.56	22.67
			1	49	23.50	22.46	22.77	23.15



			1	99	23.50	22.65	22.53	22.85
			50	0	22.00	21.32	21.47	21.82
			50	24	22.00	21.42	21.65	21.90
			50	49	22.00	21.46	21.60	21.83
			100	0	22.00	21.35	21.50	21.81

#### 7.4. WLAN & Bluetooth Output Power

##### 7.4.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	16.50	15.64
	6	2437	16.50	16.01
	11	2462	16.50	15.65
802.11g	1	2412	13.50	12.95
	6	2437	13.50	13.05
	11	2462	13.50	13.01
802.11n HT20	1	2412	11.50	11.13
	6	2437	11.50	11.42
	11	2462	11.50	10.99
802.11n HT40	3	2422	10.50	10.05
	6	2437	10.50	10.05
	9	2452	10.50	9.06

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	10.50	10.03
	40	5200	10.50	10.15
	48	5240	10.50	9.77
802.11n HT20	36	5180	10.50	10.38
	40	5200	10.50	10.17
	48	5240	10.50	10.16
802.11n HT40	38	5190	10.50	10.30
	46	5230	10.50	9.95
802.11ac VHT20	36	5180	10.50	10.36
	40	5200	10.50	10.11
	48	5240	10.50	9.82
802.11ac VHT40	38	5190	11.00	10.20
	46	5230	11.00	10.53

802.11ac VHT80	42	5210	11.00	10.63
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NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	10.00	8.8
	157	5785	10.00	8.8
	165	5825	10.00	9.56
802.11n HT20	149	5745	9.50	8.89
	157	5785	9.50	8.45
	165	5825	9.50	9.49
802.11n HT40	151	5755	9.50	9.27
	159	5795	9.50	9.02
802.11ac VHT20	149	5745	9.50	8.79
	157	5785	9.50	8.31
	165	5825	9.50	9.45
802.11ac VHT40	151	5755	9.50	9.1
	159	5795	9.50	8.8
802.11ac VHT80	155	5775	9.50	9.2

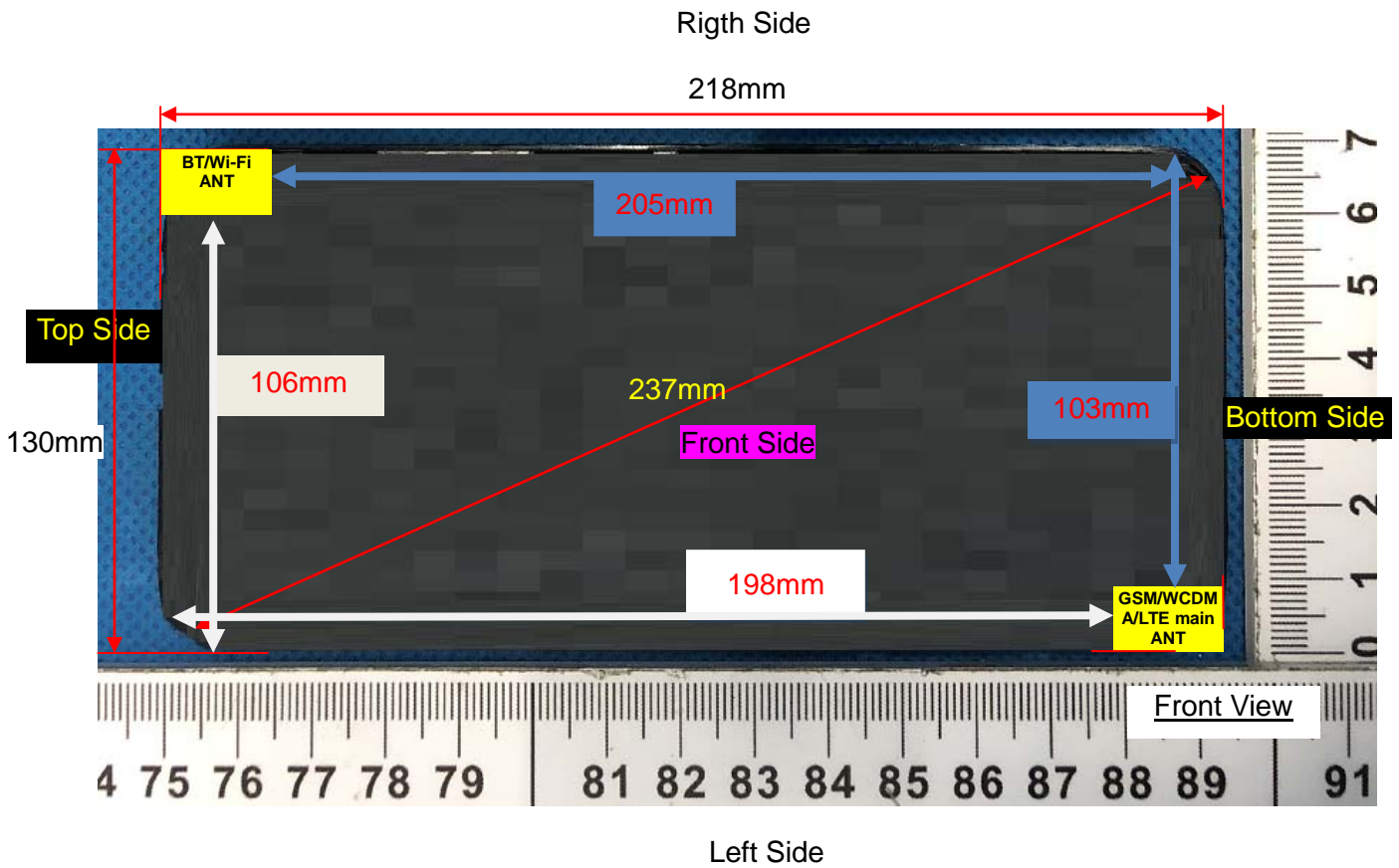
NOTE: Power measurement results of WLAN 5.8G.

**7.4.2. Output Power Results Of Bluetooth**

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	5.00	4.22	4.18	3.72
	39CH	3.00	2.93	2.92	2.82
	78CH	3.00	2.47	2.27	2.22

BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
	0CH	-6.00	-6.24	-6.67
	19CH	-6.00	-6.42	-6.72
	39CH	-5.00	-5.85	-6.38

**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	5	5	5	103	198	5
WLAN & Bluetooth	5	5	106	5	5	205

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

Positions for SAR tests		
Test separation distances ≤ 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	16.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	14.02
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	14.02
	SAR testing required?	YES
Righth Side	Antenna to user(mm)	5
	SAR exclusion threshold	14.02

	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold	14.02
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	11.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	5.76
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	5.76
	SAR testing required?	YES
Righth Side	Antenna to user(mm)	5
	SAR exclusion threshold	5.76
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold	5.76
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	10.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.83
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.83
	SAR testing required?	YES
Righth Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.83
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.83
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM 850	
	29.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	146.36
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	146.36
	SAR testing required?	YES

Right Side	Antenna to user(mm)	5
	SAR exclusion threshold	146.36
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	146.36
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM 1900	
	26.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	123.46
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	123.46
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	123.46
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	123.46
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	23.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	55.12
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	55.12
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	55.12
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	55.12
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	23.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	52.83
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5

	SAR exclusion threshold	52.83
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	52.83
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	52.83
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	23.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	36.72
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	36.72
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	36.72
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	36.72
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	24.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.7
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.7
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.7
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.7
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.36

	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.36
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.36
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.36
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.15
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.15
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.15
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.15
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 7	
	25.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	101.19
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	101.19
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	101.19
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	101.19
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	24.00dBm	

Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 13	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	44.43
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	44.43
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	44.43
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	44.43
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 17	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	42.36
	SAR testing required?	YES



Exposure Positions	Tune-up Maximum power of LTE Band 25	
	24.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.80
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.80
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.80
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	77.80
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 26A	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.46
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.46
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.46
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.46
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 26B	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.34
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.34
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	45.34
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5

	SAR exclusion threshold	45.34
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	25.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	103.54
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	103.54
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	103.54
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	103.54
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 66	
	24.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.84
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.84
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.84
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	66.84
	SAR testing required?	YES

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

Positions for SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	16.50dBm	44.67mW
Left Side	Antenna to user(mm)	106
	SAR exclusion threshold(mW)	656
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	205

	SAR exclusion threshold(mW)	1646
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	11.00dBm	12.59mW
Left Side	Antenna to user(mm)	106
	SAR exclusion threshold(mW)	656
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	205
	SAR exclusion threshold(mW)	1646
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	10.50dBm	11.22mW
Left Side	Antenna to user(mm)	106
	SAR exclusion threshold(mW)	622
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	205
	SAR exclusion threshold(mW)	1612
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM 850	
	29.00dBm	794.33mW
Right Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM 1900	
	26.50 dBm	446.68 mV
Right Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	23.00dBm	199.53mW
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198

	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	23.00dBm	199.53mW
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	23.00dBm	199.53mW
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	24.50 dBm	281.84 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198

	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 7	
	25.00 dBm	316.23 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	626
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1576
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 13	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 17	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 25	
	24.50 dBm	281.84 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198

	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 26A	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 26B	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	459
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	988
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	25.00 dBm	316.23 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	626
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1576
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 66	
	24.00 dBm	251.19 mV
Left Side	Antenna to user(mm)	103
	SAR exclusion threshold(mW)	639
	SAR testing required?	NO
Top Side	Antenna to user(mm)	198
	SAR exclusion threshold(mW)	1589
	SAR testing required?	NO

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

## 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  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [f_{(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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 <sub>max</sub> (dBm)	P <sub>max</sub> (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	5.00	3.16	5	2.480	1	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}/x}] \text{ W/kg}$  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 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P <sub>max</sub> (dBm)	P <sub>max</sub> (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	5.00	3.16	5	2.48	7.5	0.133
Bluetooth	Body	5.00	3.16	10	2.48	7.5	0.066

NOTE: Estimated SAR calculation for Bluetooth

## 10. SAR Results

### 10.1. SAR measurement results

#### 10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	189/836.4	GPRS(GMSK 4TS)	0.046	0.029	-3.91	28.67	29.00	0.050	2023/2/09	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.023	0.014	-0.28	28.67	29.00	0.025	2023/2/09	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.040	0.024	3.81	28.67	29.00	0.043	2023/2/09	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.019	0.017	0.89	28.67	29.00	0.020	2023/2/09	

NOTE: Head SAR test results of GSM850

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.126	0.067	3.92	28.67	29.00	0.136	2023/2/09	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.164	0.088	-0.71	28.67	29.00	0.177	2023/2/09	2#
Left Side	189/836.4	GPRS(GMSK 4TS)	0.063	0.033	0.97	28.67	29.00	0.068	2023/2/09	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.095	0.049	1.00	28.67	29.00	0.102	2023/2/09	

NOTE: Body SAR test results of GSM850

#### 10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.040	0.023	-0.28	25.95	26.50	0.045	2023/2/10	3#



		4TS)								
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.022	0.012	0.51	25.95	26.50	0.025	2023/2/10	
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.035	0.020	-3.99	25.95	26.50	0.040	2023/2/10	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.016	0.014	1.86	25.95	26.50	0.018	2023/2/10	

NOTE: Head SAR test results of GSM1900

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 4TS)	0.174	0.082	-3.05	25.95	26.50	0.197	2023/2/10	
Back Side	661/1880	GPRS(GMSK 4TS)	0.254	0.119	0.14	25.95	26.50	0.288	2023/2/10	4#
Left Side	661/1880	GPRS(GMSK 4TS)	0.081	0.038	-3.45	25.95	26.50	0.092	2023/2/10	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.140	0.063	-0.70	25.95	26.50	0.159	2023/2/10	

NOTE: Body SAR test results of GSM1900

### 10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.138	0.080	-2.04	22.99	23.50	0.155	2023/2/10	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.080	0.045	2.01	22.99	23.50	0.090	2023/2/10	
Right Cheek	9400/1880	RMC12.2K	0.122	0.071	2.67	22.99	23.50	0.137	2023/2/10	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.057	0.032	-3.46	22.99	23.50	0.064	2023/2/10	

NOTE: Head SAR test results of WCDMA Band 2

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

								(W/Kg)		
Front Side	9400/1880	RMC12.2K	0.414	0.196	1.41	22.99	23.50	0.466	2023/2/10	
Back Side	9400/1880	RMC12.2K	0.683	0.341	-3.23	22.99	23.50	0.768	2023/2/10	6#
Left Side	9400/1880	RMC12.2K	0.207	0.101	-1.01	22.99	23.50	0.233	2023/2/10	
Bottom Side	9400/1880	RMC12.2K	0.345	0.165	1.19	22.99	23.50	0.388	2023/2/10	

NOTE: Body SAR test results of WCDMA Band 2

#### 10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1413/1732.6	RMC12.2K	0.107	0.063	-0.88	22.94	23.50	0.122	2023/1/29	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.061	0.035	0.29	22.94	23.50	0.069	2023/1/29	
Right Cheek	1413/1732.6	RMC12.2K	0.096	0.055	-1.12	22.94	23.50	0.109	2023/1/29	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.048	0.027	1.21	22.94	23.50	0.055	2023/1/29	

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.474	0.239	3.21	22.94	23.50	0.539	2023/1/29	
Back Side	1413/1732.6	RMC12.2K	0.757	0.386	-1.29	22.94	23.50	0.861	2023/1/29	8#
Left Side	1413/1732.6	RMC12.2K	0.240	0.122	-0.54	22.94	23.50	0.273	2023/1/29	
Bottom Side	1413/1732.6	RMC12.2K	0.380	0.186	-3.79	22.94	23.50	0.432	2023/1/29	
Back Side	1312/1712.4	RMC12.2K	0.702	0.351	1.58	22.94	23.50	0.799	2023/1/29	
Back Side	1513/1752.6	RMC12.2K	0.722	0.350	-0.14	23.05	23.50	0.801	2023/1/29	
BackSide Repeated	1413/1732.6	RMC12.2K	0.741	0.370	-0.72	22.94	23.50	0.843	2023/1/29	

NOTE: Body SAR test results of WCDMA Band 4

#### 10.1.5. SAR measurement Result of WCDMA Band 5

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

Left Cheek	4182/836.4	RMC12.2K	0.175	0.119	2.16	22.68	23.00	0.188	2023/2/09	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.102	0.068	3.98	22.68	23.00	0.110	2023/2/09	
Right Cheek	4182/836.4	RMC12.2K	0.165	0.108	2.20	22.68	23.00	0.178	2023/2/09	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.075	0.049	2.71	22.68	23.00	0.081	2023/2/09	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body with Omm	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	4182/836.4	RMC12.2K	0.714	0.402	-3.51	22.68	23.00	0.769	2023/2/09	
Back Side	4182/836.4	RMC12.2K	1.100	0.675	-0.20	22.68	23.00	1.184	2023/2/09	
Left Side	4182/836.4	RMC12.2K	0.348	0.204	3.96	22.68	23.00	0.375	2023/2/09	
Bottom Side	4182/836.4	RMC12.2K	0.590	0.336	-3.02	22.68	23.00	0.635	2023/2/09	
Back Side	4132/826.4	RMC12.2K	1.123	0.691	-0.24	22.70	23.00	1.203	2023/2/09	10#
Back Side	4233/846.6	RMC12.2K	1.101	0.662	-0.21	22.63	23.00	1.199	2023/2/09	
BackSide Repeated	4132/826.4	RMC12.2K	1.107	0.668	-0.91	22.70	23.00	1.186	2023/2/09	

NOTE: Body SAR test results of WCDMA Band 5

**10.1.6. SAR measurement Result of LTE Band 2**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	18900/1880	20M QPSK(1,49)	0.127	0.076	-1.52	24.30	24.50	0.133	2023/2/10	17#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.073	0.042	-0.61	24.30	24.50	0.076	2023/2/10	
Right Cheek	18900/1880	20M QPSK(1,49)	0.115	0.068	2.59	24.30	24.50	0.120	2023/2/10	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.053	0.031	-3.04	24.30	24.50	0.055	2023/2/10	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,49)	0.074	0.041	2.86	23.18	24.00	0.089	2023/2/10	

Left Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.037	0.025	3.78	23.18	24.00	0.045	2023/2/10	
Right Cheek	18900/1880	20M QPSK(50,49)	0.065	0.037	2.59	23.18	24.00	0.079	2023/2/10	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.027	0.018	2.74	23.18	24.00	0.033	2023/2/10	

NOTE: Head SAR test results of LTE Band 2

Test Position of Body with Omm	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	18900/1880	20M QPSK(1,49)	0.396	0.196	1.23	24.30	24.50	0.415	2023/2/10	
Back Side	18900/1880	20M QPSK(1,49)	0.651	0.326	-1.69	24.30	24.50	0.682	2023/2/10	18#
Left Side	18900/1880	20M QPSK(1,49)	0.204	0.099	3.63	24.30	24.50	0.214	2023/2/10	
Bottom Side	18900/1880	20M QPSK(1,49)	0.335	0.161	-0.88	24.30	24.50	0.351	2023/2/10	
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.220	0.100	-1.41	23.18	24.00	0.266	2023/2/10	
Back Side	18900/1880	20M QPSK(50,49)	0.342	0.182	-3.67	23.18	24.00	0.413	2023/2/10	
Left Side	18900/1880	20M QPSK(50,49)	0.113	0.050	-0.78	23.18	24.00	0.136	2023/2/10	
Bottom Side	18900/1880	20M QPSK(50,49)	0.168	0.085	2.25	23.18	24.00	0.203	2023/2/10	

NOTE: Body SAR test results of LTE Band 2

### 10.1.7. SAR measurement Result of LTE Band 4

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

Left Cheek	20175/1732.5	20M QPSK(1,49)	0.130	0.081	-1.11	23.81	24.00	0.136	2023/1/29	19#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.075	0.047	-3.64	23.81	24.00	0.078	2023/1/29	
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.115	0.068	2.72	23.81	24.00	0.120	2023/1/29	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.062	0.038	0.04	23.81	24.00	0.065	2023/1/29	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,49)	0.072	0.043	3.23	22.93	23.00	0.073	2023/1/29	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.042	0.026	0.07	22.93	23.00	0.043	2023/1/29	
Right Cheek	20175/1732.5	20M QPSK(50,49)	0.059	0.040	3.49	22.93	23.00	0.060	2023/1/29	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.034	0.022	1.73	22.93	23.00	0.035	2023/1/29	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body with 0mm	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	20175/1732.5	20M QPSK(1,49)	0.558	0.286	-1.19	23.81	24.00	0.583	2023/1/29	
Back Side	20175/1732.5	20M QPSK(1,49)	0.881	0.451	-1.52	23.81	24.00	0.920	2023/1/29	
Left Side	20175/1732.5	20M QPSK(1,49)	0.267	0.135	-0.64	23.81	24.00	0.279	2023/1/29	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.455	0.233	0.45	23.81	24.00	0.475	2023/1/29	
Back Side	20050/1720	20M QPSK(1,49)	0.882	0.452	-0.90	23.49	24.00	0.992	2023/1/29	20#
Back Side	20300/1745	20M QPSK(1,49)	0.881	0.451	0.01	23.64	24.00	0.957	2023/1/29	
BackSide	20050/1720	20M	0.837	0.412	2.17	23.49	24.00	0.941	2023/1/29	

Repeated		QPSK(1,49)								
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.295	0.158	2.21	22.93	23.00	0.300	2023/1/29	
Back Side	20175/1732.5	20M QPSK(50,49)	0.496	0.227	3.57	22.93	23.00	0.504	2023/1/29	
Left Side	20175/1732.5	20M QPSK(50,49)	0.141	0.068	4.40	22.93	23.00	0.143	2023/1/29	
Bottom Side	20175/1732.5	20M QPSK(50,49)	0.265	0.122	3.98	22.93	23.00	0.269	2023/1/29	
100%RB										
Back Side	20175/1732.5	20M QPSK(100,0)	0.500	0.257	4.16	22.80	23.00	0.524	2023/1/29	

NOTE: Body SAR test results of LTE Band 4

### 10.1.8. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.096	0.063	-0.82	23.50	24.00	0.108	2023/2/09	21#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.049	0.032	-1.84	23.50	24.00	0.055	2023/2/09	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.089	0.057	-0.23	23.50	24.00	0.100	2023/2/09	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.042	0.028	3.46	23.50	24.00	0.047	2023/2/09	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,12)	0.054	0.032	-3.79	22.45	22.50	0.055	2023/2/09	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,12)	0.028	0.018	0.60	22.45	22.50	0.028	2023/2/09	
Right Cheek	20525/836.5	10M QPSK(25,12)	0.053	0.031	1.76	22.45	22.50	0.054	2023/2/09	

Right Tilt 15 Degree	20525/836.5	10M QPSK(25,12)	0.023	0.015	-2.52	22.45	22.50	0.023	2023/2/09	
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NOTE: Head SAR test results of LTE Band 5

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.258	0.146	-2.42	23.50	24.00	0.289	2023/2/09	
Back Side	20525/836.5	10M QPSK(1,24)	0.384	0.226	-0.53	23.50	24.00	0.431	2023/2/09	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.126	0.074	-2.60	23.50	24.00	0.141	2023/2/09	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.205	0.121	-3.62	23.50	24.00	0.230	2023/2/09	
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.132	0.082	-3.67	22.45	22.50	0.134	2023/2/09	
Back Side	20525/836.5	10M QPSK(25,12)	0.197	0.118	1.41	22.45	22.50	0.199	2023/2/09	
Left Side	20525/836.5	10M QPSK(25,12)	0.067	0.038	-0.21	22.45	22.50	0.068	2023/2/09	
Bottom Side	20525/836.5	10M QPSK(25,12)	0.107	0.062	4.64	22.45	22.50	0.108	2023/2/09	

NOTE: Body SAR test results of LTE Band 5

### 10.1.9. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,49)	0.126	0.064	0.48	24.59	25.00	0.138	2023/2/02	23#
Left Tilt 15	21100/2535	20M QPSK(1,49)	0.063	0.031	-3.29	24.59	25.00	0.069	2023/2/02	

Degree										
Right Cheek	21100/2535	20M QPSK(1,49)	0.117	0.057	-0.44	24.59	25.00	0.129	2023/2/02	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.058	0.028	-0.68	24.59	25.00	0.064	2023/2/02	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.070	0.038	-2.70	23.60	24.00	0.077	2023/2/02	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.033	0.017	0.05	23.60	24.00	0.036	2023/2/02	
Right Cheek	21100/2535	20M QPSK(50,24)	0.067	0.030	-4.85	23.60	24.00	0.073	2023/2/02	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.030	0.016	-3.25	23.60	24.00	0.033	2023/2/02	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.492	0.204	-0.60	24.59	25.00	0.541	2023/2/02	
Back Side	21100/2535	20M QPSK(1,49)	0.817	0.353	-0.67	24.59	25.00	0.898	2023/2/02	
Left Side	21100/2535	20M QPSK(1,49)	0.258	0.106	2.62	24.59	25.00	0.284	2023/2/02	
Bottom Side	21100/2535	20M QPSK(1,49)	0.425	0.184	1.68	24.59	25.00	0.467	2023/2/02	
Back Side	20850/2510	20M QPSK(1,49)	0.842	0.368	-0.38	24.61	25.00	0.921	2023/2/02	24#
Back Side	21350/2560	20M QPSK(1,49)	0.792	0.339	-0.55	24.57	25.00	0.874	2023/2/02	
BackSide Repeated	20850/2510	20M QPSK(1,49)	0.797	0.341	2.09	24.61	25.00	0.872	2023/2/02	
50%RB										
Front	21100/2535	20M	0.277	0.110	4.30	23.60	24.00	0.304	2023/2/02	



Side		QPSK(50,24)								
Back Side	21100/2535	20M QPSK(50,24)	0.448	0.191	-4.76	23.60	24.00	0.491	2023/2/02	
Left Side	21100/2535	20M QPSK(50,24)	0.140	0.059	0.71	23.60	24.00	0.154	2023/2/02	
Bottom Side	21100/2535	20M QPSK(50,24)	0.252	0.109	4.42	23.60	24.00	0.276	2023/2/02	
100%RB										
Back Side	21100/2535	20M QPSK(100,0)	0.467	0.181	1.53	23.42	24.00	0.534	2023/2/02	

NOTE: Body SAR test results of LTE Band 7

**10.1.10. SAR measurement Result of LTE Band 12**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,0)	0.039	0.027	0.35	23.43	24.00	0.044	2023/2/07	25#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.021	0.014	2.44	23.43	24.00	0.024	2023/2/07	
Right Cheek	23095/707.5	10M QPSK(1,0)	0.035	0.024	-1.11	23.43	24.00	0.040	2023/2/07	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.016	0.014	-0.82	23.43	24.00	0.018	2023/2/07	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,0)	0.022	0.014	-0.74	22.36	22.50	0.023	2023/2/07	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.012	0.007	-3.11	22.36	22.50	0.012	2023/2/07	
Right Cheek	23095/707.5	10M QPSK(25,0)	0.019	0.014	-3.65	22.36	22.50	0.020	2023/2/07	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.009	0.007	2.70	22.36	22.50	0.009	2023/2/07	

NOTE: Head SAR test results of LTE Band 12

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
			1RB							
Front Side	23095/707.5	10M QPSK(1,0)	0.270	0.156	3.94	23.43	24.00	0.308	2023/2/07	
Back Side	23095/707.5	10M QPSK(1,0)	0.436	0.259	-0.47	23.43	24.00	0.497	2023/2/07	26#
Left Side	23095/707.5	10M QPSK(1,0)	0.144	0.086	-2.08	23.43	24.00	0.164	2023/2/07	
Bottom Side	23095/707.5	10M QPSK(1,0)	0.220	0.125	3.26	23.43	24.00	0.251	2023/2/07	
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.139	0.082	-0.99	22.36	22.50	0.144	2023/2/07	
Back Side	23095/707.5	10M QPSK(25,0)	0.222	0.150	-3.38	22.36	22.50	0.229	2023/2/07	
Left Side	23095/707.5	10M QPSK(25,0)	0.076	0.046	-4.28	22.36	22.50	0.078	2023/2/07	
Bottom Side	23095/707.5	10M QPSK(25,0)	0.122	0.063	-1.53	22.36	22.50	0.126	2023/2/07	

NOTE: Body SAR test results of LTE Band 12

**10.1.11. SAR measurement Result of LTE Band 13**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
			1RB							
Left Cheek	23230/782	10M QPSK(1,0)	0.072	0.049	0.06	23.44	24.00	0.082	2023/2/07	27#
Left Tilt 15 Degree	23230/782	10M QPSK(1,0)	0.040	0.026	0.25	23.44	24.00	0.046	2023/2/07	
Right Cheek	23230/782	10M QPSK(1,0)	0.067	0.046	-2.84	23.44	24.00	0.076	2023/2/07	

Right Tilt 15 Degree	23230/782	10M QPSK(1,0)	0.034	0.023	3.41	23.44	24.00	0.039	2023/2/07	
50%RB										
Left Cheek	23230/782	10M QPSK(25,12)	0.041	0.025	-2.89	22.43	22.50	0.042	2023/2/07	
Left Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.022	0.013	0.51	22.43	22.50	0.022	2023/2/07	
Right Cheek	23230/782	10M QPSK(25,12)	0.040	0.027	3.98	22.43	22.50	0.041	2023/2/07	
Right Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.018	0.013	-4.21	22.43	22.50	0.018	2023/2/07	

NOTE: Head SAR test results of LTE Band 13

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,0)	0.312	0.183	0.24	23.44	24.00	0.355	2023/2/07	
Back Side	23230/782	10M QPSK(1,0)	0.492	0.291	0.05	23.44	24.00	0.560	2023/2/07	28#
Left Side	23230/782	10M QPSK(1,0)	0.159	0.089	3.12	23.44	24.00	0.181	2023/2/07	
Bottom Side	23230/782	10M QPSK(1,0)	0.265	0.150	-1.28	23.44	24.00	0.301	2023/2/07	
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.160	0.103	-2.44	22.43	22.50	0.163	2023/2/07	
Back Side	23230/782	10M QPSK(25,12)	0.283	0.173	2.08	22.43	22.50	0.288	2023/2/07	
Left Side	23230/782	10M QPSK(25,12)	0.094	0.052	1.76	22.43	22.50	0.096	2023/2/07	
Bottom Side	23230/782	10M QPSK(25,12)	0.140	0.076	-3.24	22.43	22.50	0.142	2023/2/07	

NOTE: Body SAR test results of LTE Band 13

**10.1.12. SAR measurement Result of LTE Band 14**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23330/793	10M QPSK(1,0)	0.061	0.050	1.88	23.94	24.00	0.062	2022/2/7	29#
Left Tilt 15 Degree	23330/793	10M QPSK(1,0)	0.036	0.029	-1.65	23.94	24.00	0.037	2022/2/7	
Right Cheek	23330/793	10M QPSK(1,0)	0.057	0.047	1.23	23.94	24.00	0.058	2022/2/7	
Right Tilt 15 Degree	23330/793	10M QPSK(1,0)	0.030	0.024	-2.35	23.94	24.00	0.030	2022/2/7	
50%RB										
Left Cheek	23330/793	10M QPSK(25,12)	0.035	0.029	4.97	22.92	23.00	0.036	2022/2/7	
Left Tilt 15 Degree	23330/793	10M QPSK(25,12)	0.019	0.016	2.59	22.92	23.00	0.019	2022/2/7	
Right Cheek	23330/793	10M QPSK(25,12)	0.033	0.024	2.70	22.92	23.00	0.034	2022/2/7	
Right Tilt 15 Degree	23330/793	10M QPSK(25,12)	0.018	0.013	-3.32	22.92	23.00	0.018	2022/2/7	

NOTE: Head SAR test results of LTE Band 14

Test Position of Body with 0mm	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	23330/793	10M QPSK(1,0)	0.108	0.061	-3.66	23.94	24.00	0.110	2023/2/07	
Back Side	23330/793	10M QPSK(1,0)	0.142	0.080	0.04	23.94	24.00	0.144	2023/2/07	30#

Left Side	23330/793	10M QPSK(1,0)	0.048	0.026	3.26	23.94	24.00	0.049	2023/2/07	
Bottom Side	23330/793	10M QPSK(1,0)	0.090	0.049	-1.53	23.94	24.00	0.091	2023/2/07	
50%RB										
Front Side	23330/793	10M QPSK(25,12)	0.059	0.034	3.39	22.92	23.00	0.060	2023/2/07	
Back Side	23330/793	10M QPSK(25,12)	0.076	0.043	-1.69	22.92	23.00	0.077	2023/2/07	
Left Side	23330/793	10M QPSK(25,12)	0.028	0.014	-0.41	22.92	23.00	0.029	2023/2/07	
Bottom Side	23330/793	10M QPSK(25,12)	0.046	0.025	-1.59	22.92	23.00	0.047	2023/2/07	

NOTE: Body SAR test results of LTE Band 14

**10.1.13. SAR measurement Result of LTE Band 17**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23790/710	10M QPSK(1,0)	0.040	0.027	0.12	23.46	24.00	0.045	2023/2/07	29#
Left Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.024	0.016	1.58	23.46	24.00	0.027	2023/2/07	
Right Cheek	23790/710	10M QPSK(1,0)	0.035	0.023	-0.02	23.46	24.00	0.040	2023/2/07	
Right Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.016	0.014	1.01	23.46	24.00	0.018	2023/2/07	
50%RB										
Left Cheek	23790/710	10M QPSK(25,12)	0.021	0.014	-1.09	22.35	22.50	0.022	2023/2/07	
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.013	0.008	0.42	22.35	22.50	0.013	2023/2/07	
Right Cheek	23790/710	10M QPSK(25,12)	0.021	0.013	4.75	22.35	22.50	0.022	2023/2/07	
Right	23790/710	10M	0.008	0.008	0.13	22.35	22.50	0.008	2023/2/07	

Tilt 15 Degree		QPSK(25,12)								
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NOTE: Head SAR test results of LTE Band 17

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,0)	0.270	0.152	1.64	23.46	24.00	0.306	2023/2/07	
Back Side	23790/710	10M QPSK(1,0)	0.443	0.263	0.13	23.46	24.00	0.502	2023/2/07	30#
Left Side	23790/710	10M QPSK(1,0)	0.141	0.081	-3.90	23.46	24.00	0.160	2023/2/07	
Bottom Side	23790/710	10M QPSK(1,0)	0.245	0.138	-0.55	23.46	24.00	0.277	2023/2/07	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.146	0.079	-2.01	22.35	22.50	0.151	2023/2/07	
Back Side	23790/710	10M QPSK(25,12)	0.250	0.158	4.32	22.35	22.50	0.259	2023/2/07	
Left Side	23790/710	10M QPSK(25,12)	0.084	0.043	-4.24	22.35	22.50	0.087	2023/2/07	
Bottom Side	23790/710	10M QPSK(25,12)	0.140	0.075	-0.20	22.35	22.50	0.145	2023/2/07	

NOTE: Body SAR test results of LTE Band 17

#### 10.1.14. SAR measurement Result of LTE Band 25

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	26365/1882.5	20M QPSK(1,49)	0.097	0.058	2.63	24.22	24.50	0.103	2023/2/10	31#
Left Tilt 15 Degree	26365/1882.5	20M QPSK(1,49)	0.053	0.031	-1.97	24.22	24.50	0.057	2023/2/10	

Right Cheek	26365/1882.5	20M QPSK(1,49)	0.089	0.053	0.47	24.22	24.50	0.095	2023/2/10	
Right Tilt 15 Degree	26365/1882.5	20M QPSK(1,49)	0.043	0.025	-1.67	24.22	24.50	0.046	2023/2/10	
50%RB										
Left Cheek	26365/1882.5	20M QPSK(50,24)	0.054	0.033	-1.57	23.20	23.50	0.058	2023/2/10	
Left Tilt 15 Degree	26365/1882.5	20M QPSK(50,24)	0.028	0.016	1.18	23.20	23.50	0.030	2023/2/10	
Right Cheek	26365/1882.5	20M QPSK(50,24)	0.049	0.030	0.45	23.20	23.50	0.053	2023/2/10	
Right Tilt 15 Degree	26365/1882.5	20M QPSK(50,24)	0.024	0.014	0.15	23.20	23.50	0.026	2023/2/10	

NOTE: Head SAR test results of LTE Band 25

Test Position of Body with 0mm	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	26365/1882.5	20M QPSK(1,49)	0.306	0.151	3.53	24.22	24.50	0.326	2023/2/10	
Back Side	26365/1882.5	20M QPSK(1,49)	0.486	0.242	-1.00	24.22	24.50	0.518	2023/2/10	32#
Left Side	26365/1882.5	20M QPSK(1,49)	0.147	0.073	3.94	24.22	24.50	0.157	2023/2/10	
Bottom Side	26365/1882.5	20M QPSK(1,49)	0.245	0.117	-2.53	24.22	24.50	0.261	2023/2/10	
50%RB										
Front Side	26365/1882.5	20M QPSK(50,24)	0.159	0.078	3.36	23.20	23.50	0.170	2023/2/10	
Back Side	26365/1882.5	20M QPSK(50,24)	0.282	0.126	0.40	23.20	23.50	0.302	2023/2/10	
Left Side	26365/1882.5	20M QPSK(50,24)	0.075	0.042	4.75	23.20	23.50	0.080	2023/2/10	
Bottom	26365/1882.5	20M	0.126	0.064	1.20	23.20	23.50	0.135	2023/2/10	

Side		QPSK(50,24)								
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NOTE: Body SAR test results of LTE Band 25

**10.1.15. SAR measurement Result of LTE Band 26A**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	26740/819	10M QPSK(1,0)	0.067	0.045	0.33	23.94	24.00	0.068	2023/2/09	33#
Left Tilt 15 Degree	26740/819	10M QPSK(1,0)	0.035	0.024	3.22	23.94	24.00	0.035	2023/2/09	
Right Cheek	26740/819	10M QPSK(1,0)	0.062	0.040	3.62	23.94	24.00	0.063	2023/2/09	
Right Tilt 15 Degree	26740/819	10M QPSK(1,0)	0.030	0.019	1.97	23.94	24.00	0.030	2023/2/09	
50%RB										
Left Cheek	26740/819	10M QPSK(25,0)	0.037	0.024	-0.70	22.67	23.00	0.040	2023/2/09	
Left Tilt 15 Degree	26740/819	10M QPSK(25,0)	0.018	0.014	3.50	22.67	23.00	0.019	2023/2/09	
Right Cheek	26740/819	10M QPSK(25,0)	0.034	0.022	-2.80	22.67	23.00	0.037	2023/2/09	
Right Tilt 15 Degree	26740/819	10M QPSK(25,0)	0.016	0.011	3.48	22.67	23.00	0.017	2023/2/09	

NOTE: Head SAR test results of LTE Band 26A

Test Position of Body with Omm	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	26740/819	10M QPSK(1,0)	0.060	0.039	1.19	23.94	24.00	0.061	2023/2/09	



Back Side	26740/819	10M QPSK(1,0)	0.074	0.049	0.08	23.94	24.00	0.075	2023/2/09	34#
Left Side	26740/819	10M QPSK(1,0)	0.027	0.017	-3.57	23.94	24.00	0.027	2023/2/09	
Bottom Side	26740/819	10M QPSK(1,0)	0.050	0.032	-2.10	23.94	24.00	0.051	2023/2/09	
50%RB										
Front Side	26740/819	10M QPSK(25,0)	0.031	0.020	-3.59	22.67	23.00	0.033	2023/2/09	
Back Side	26740/819	10M QPSK(25,0)	0.041	0.028	4.19	22.67	23.00	0.044	2023/2/09	
Left Side	26740/819	10M QPSK(25,0)	0.016	0.009	-2.22	22.67	23.00	0.017	2023/2/09	
Bottom Side	26740/819	10M QPSK(25,0)	0.028	0.019	-1.70	22.67	23.00	0.030	2023/2/09	

NOTE: Body SAR test results of LTE Band 26A

### 10.1.16. SAR measurement Result of LTE Band 26B

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	26865/831.5	15M QPSK(1,37)	0.390	0.229	0.08	23.61	24.00	0.427	2023/2/09	35#
Left Tilt 15 Degree	26865/831.5	15M QPSK(1,37)	0.229	0.129	0.37	23.61	24.00	0.251	2023/2/09	
Right Cheek	26865/831.5	15M QPSK(1,37)	0.338	0.189	-3.94	23.61	24.00	0.370	2023/2/09	
Right Tilt 15 Degree	26865/831.5	15M QPSK(1,37)	0.155	0.088	-0.94	23.61	24.00	0.170	2023/2/09	
50%RB										
Left Cheek	26865/831.5	15M QPSK(36,18)	0.224	0.133	-4.13	22.58	23.00	0.247	2023/2/09	
Left Tilt 15 Degree	26865/831.5	15M QPSK(36,18)	0.135	0.069	-1.60	22.58	23.00	0.149	2023/2/09	
Right	26865/831.5	15M	0.198	0.113	1.77	22.58	23.00	0.218	2023/2/09	

Cheek		QPSK(36,18)								
Right Tilt 15 Degree	26865/831.5	15M QPSK(36,18)	0.080	0.045	-4.46	22.58	23.00	0.088	2023/2/09	

NOTE: Head SAR test results of LTE Band 26B

Test Position of Body with Omm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26865/831.5	15M QPSK(1,37)	0.228	0.130	1.71	23.61	24.00	0.249	2023/2/09	
Back Side	26865/831.5	15M QPSK(1,37)	0.367	0.216	0.20	23.61	24.00	0.401	2023/2/09	36#
Left Side	26865/831.5	15M QPSK(1,37)	0.114	0.066	0.44	23.61	24.00	0.125	2023/2/09	
Bottom Side	26865/831.5	15M QPSK(1,37)	0.200	0.112	-1.27	23.61	24.00	0.219	2023/2/09	
50%RB										
Front Side	26865/831.5	15M QPSK(36,18)	0.131	0.076	-2.13	22.58	23.00	0.144	2023/2/09	
Back Side	26865/831.5	15M QPSK(36,18)	0.198	0.116	4.47	22.58	23.00	0.218	2023/2/09	
Left Side	26865/831.5	15M QPSK(36,18)	0.067	0.037	-3.55	22.58	23.00	0.074	2023/2/09	
Bottom Side	26865/831.5	15M QPSK(36,18)	0.111	0.059	4.16	22.58	23.00	0.122	2023/2/09	

NOTE: Body SAR test results of LTE Band 26B

**10.1.17. SAR measurement Result of LTE Band 41**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	40620/2593	20M QPSK(1,49)	0.062	0.031	0.34	24.95	25.00	0.063	2023/2/02	37#
Left Tilt	40620/2593	20M	0.031	0.015	1.84	24.95	25.00	0.031	2023/2/02	

15 Degree		QPSK(1,49)								
Right Cheek	40620/2593	20M QPSK(1,49)	0.054	0.026	-1.19	24.95	25.00	0.055	2023/2/02	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.029	0.014	-2.59	24.95	25.00	0.029	2023/2/02	
50%RB										
Left Cheek	40620/2593	20M QPSK(50,24)	0.032	0.016	-2.26	23.95	24.00	0.032	2023/2/02	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,24)	0.017	0.008	0.97	23.95	24.00	0.017	2023/2/02	
Right Cheek	40620/2593	20M QPSK(50,24)	0.027	0.014	4.00	23.95	24.00	0.027	2023/2/02	
Right Tilt 15 Degree	40620/2593	20M QPSK(50,24)	0.015	0.008	-2.68	23.95	24.00	0.015	2023/2/02	

NOTE: Head SAR test results of LTE Band 41

Test Position of Body with 0mm	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	40620/2593	20M QPSK(1,49)	0.198	0.084	-3.56	24.95	25.00	0.200	2023/2/02	
Back Side	40620/2593	20M QPSK(1,49)	0.322	0.137	-0.39	24.95	25.00	0.326	2023/2/02	38#
Left Side	40620/2593	20M QPSK(1,49)	0.102	0.043	0.92	24.95	25.00	0.103	2023/2/02	
Bottom Side	40620/2593	20M QPSK(1,49)	0.180	0.077	-0.59	24.95	25.00	0.182	2023/2/02	
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.100	0.045	0.91	23.95	24.00	0.101	2023/2/02	
Back Side	40620/2593	20M QPSK(50,24)	0.170	0.079	2.30	23.95	24.00	0.172	2023/2/02	
Left	40620/2593	20M	0.052	0.023	3.14	23.95	24.00	0.053	2023/2/02	

Side		QPSK(50,24)								
Bottom Side	40620/2593	20M QPSK(50,24)	0.092	0.045	-4.28	23.95	24.00	0.093	2023/2/02	

NOTE: Body SAR test results of LTE Band 41

**10.1.18. SAR measurement Result of LTE Band 66**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	132322/1745	20M QPSK(1,49)	0.135	0.084	0.95	23.60	24.00	0.148	2023/1/29	39#
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.075	0.046	-2.61	23.60	24.00	0.082	2023/1/29	
Right Cheek	132322/1745	20M QPSK(1,49)	0.125	0.075	0.62	23.60	24.00	0.137	2023/1/29	
Right Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.067	0.040	1.01	23.60	24.00	0.073	2023/1/29	
50%RB										
Left Cheek	132322/1745	20M QPSK(50,24)	0.077	0.043	3.78	22.69	23.00	0.083	2023/1/29	
Left Tilt 15 Degree	132322/1745	20M QPSK(50,24)	0.045	0.028	2.30	22.69	23.00	0.048	2023/1/29	
Right Cheek	132322/1745	20M QPSK(50,24)	0.074	0.044	-3.38	22.69	23.00	0.079	2023/1/29	
Right Tilt 15 Degree	132322/1745	20M QPSK(50,24)	0.037	0.024	-0.71	22.69	23.00	0.040	2023/1/29	

NOTE: Head SAR test results of LTE Band 66

Test Position of Body with 0mm	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	132322/1745	20M	0.540	0.265	2.95	23.60	24.00	0.592	2023/1/29	

Side		QPSK(1,49)								
Back Side	132322/1745	20M QPSK(1,49)	0.868	0.444	-1.04	23.60	24.00	0.952	2023/1/29	
Left Side	132322/1745	20M QPSK(1,49)	0.261	0.134	1.04	23.60	24.00	0.286	2023/1/29	
Bottom Side	132322/1745	20M QPSK(1,49)	0.450	0.221	3.59	23.60	24.00	0.493	2023/1/29	
Back Side	132072/1720	20M QPSK(1,49)	0.871	0.445	-0.97	23.44	24.00	0.991	2023/1/29	40#
Back Side	132572/1770	20M QPSK(1,49)	0.831	0.424	-0.14	23.89	24.00	0.852	2023/1/29	
BackSide Repeated	132072/1720	20M QPSK(1,49)	0.810	0.414	3.81	23.44	24.00	0.921	2023/1/29	
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.288	0.152	0.98	22.69	23.00	0.309	2023/1/29	
Back Side	132322/1745	20M QPSK(50,24)	0.448	0.253	3.61	22.69	23.00	0.481	2023/1/29	
Left Side	132322/1745	20M QPSK(50,24)	0.155	0.078	-1.24	22.69	23.00	0.166	2023/1/29	
Bottom Side	132322/1745	20M QPSK(50,24)	0.255	0.111	-4.50	22.69	23.00	0.274	2023/1/29	
100%RB										
Front Side	132322/1745	20M QPSK(100,0)	0.460	0.251	3.54	22.55	23.00	0.510	2023/1/29	

NOTE: Body SAR test results of LTE Band 66

**10.1.19. SAR measurement Result of WLAN 2.4G**

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	6/2437	802.11b	0.214	0.108	0.69	16.01	16.50	0.240	2023/2/01	15#
Left Tilt 15 Degree	6/2437	802.11b	0.108	0.055	1.73	16.01	16.50	0.121	2023/2/01	
Right Cheek	6/2437	802.11b	0.190	0.096	1.81	16.01	16.50	0.213	2023/2/01	
Right Tilt 15 Degree	6/2437	802.11b	0.095	0.047	3.48	16.01	16.50	0.106	2023/2/01	

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body with 0mm	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	6/2437	802.11b	0.210	0.094	2.12	16.01	16.50	0.235	2023/2/01	
Back Side	6/2437	802.11b	0.326	0.146	0.34	16.01	16.50	0.365	2023/2/01	16#
Right Side	6/2437	802.11b	0.102	0.045	-3.19	16.01	16.50	0.114	2023/2/01	
Top Side	6/2437	802.11b	0.111	0.047	1.62	16.01	16.50	0.124	2023/2/01	

NOTE: Body SAR test results of WLAN 2.4G

**10.1.20. SAR measurement Result of WLAN 5.2G**

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	42/5210	802.11ac80	0.500	0.188	-3.01	10.53	11.00	0.557	2023/2/03	11#
Left Tilt 15 Degree	42/5210	802.11ac80	0.264	0.097	-1.06	10.53	11.00	0.294	2023/2/03	
Right Cheek	42/5210	802.11ac80	0.453	0.167	1.34	10.53	11.00	0.505	2023/2/03	
Right Tilt 15 Degree	42/5210	802.11ac80	0.230	0.083	3.88	10.53	11.00	0.256	2023/2/03	

NOTE: Head SAR test results of WLAN 5.2G

Test Position of Body with 0mm	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	42/5210	802.11ac80	0.204	0.091	0.35	10.53	11.00	0.227	2023/2/03	
Back Side	42/5210	802.11ac80	0.312	0.146	-1.37	10.53	11.00	0.348	2023/2/03	13#
Right Side	42/5210	802.11ac80	0.099	0.046	-2.83	10.53	11.00	0.110	2023/2/03	
Top Side	42/5210	802.11ac80	0.105	0.047	-2.38	10.53	11.00	0.117	2023/2/03	

NOTE: Body SAR test results of WLAN 5.2G

**10.1.21. SAR measurement Result of WLAN 5.8G**

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	165/5825	802.11a	0.655	0.243	-2.03	9.56	10.00	0.725	2023/2/06	12#
Left Tilt 15 Degree	165/5825	802.11a	0.346	0.127	-2.58	9.56	10.00	0.383	2023/2/06	
Right Cheek	165/5825	802.11a	0.566	0.206	-0.95	9.56	10.00	0.626	2023/2/06	
Right Tilt 15 Degree	165/5825	802.11a	0.262	0.096	2.89	9.56	10.00	0.290	2023/2/06	

NOTE: Head SAR test results of WLAN 5.8G

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

Front Side	165/5825	802.11a	0.198	0.092	-3.92	9.56	10.00	0.219	2023/2/06	
Back Side	165/5825	802.11a	0.286	0.139	-0.17	9.56	10.00	0.316	2023/2/06	14#
Right Side	165/5825	802.11a	0.090	0.043	1.65	9.56	10.00	0.100	2023/2/06	
Top Side	165/5825	802.11a	0.090	0.044	3.90	9.56	10.00	0.100	2023/2/06	

NOTE: Body SAR test results of WLAN 5.8G

### 10.2. SAR Summation Scenario

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

- 1) Scalar SAR summation < 1.6W/kg.
- 2)  $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$ , 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  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR <sub>MAX</sub>		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.427	0.240	0.667	N/A	N/A
	Left Tilt 15 Degree	0.251	0.121	0.372	N/A	N/A
	Right Cheek	0.370	0.213	0.583	N/A	N/A
	Right Tilt 15 Degree	0.170	0.106	0.276	N/A	N/A
Body	Front Side	0.769	0.235	1.004	N/A	N/A
	Back Side	1.203	0.365	1.568	N/A	N/A
	Left Side	0.375	N/A	0.375	N/A	N/A
	Right Side	N/A	0.114	0.114	N/A	N/A
	Top Side	N/A	0.124	0.124	N/A	N/A
	Bottom Side	0.635	N/A	0.635	N/A	N/A

Test Position		Scaled SAR <sub>MAX</sub>		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.427	0.725	1.152	N/A	N/A
	Left Tilt 15 Degree	0.251	0.383	0.634	N/A	N/A
	Right Cheek	0.370	0.626	0.996	N/A	N/A



	Right Tilt 15 Degree	0.170	0.290	0.460	N/A	N/A
Body	Front Side	0.769	0.227	0.996	N/A	N/A
	Back Side	1.203	0.348	1.551	N/A	N/A
	Left Side	0.375	N/A	0.375	N/A	N/A
	Right Side	N/A	0.110	0.110	N/A	N/A
	Top Side	N/A	0.117	0.117	N/A	N/A
	Bottom Side	0.635	N/A	0.635	N/A	N/A

Test Position		Scaled SAR <sub>MAX</sub>		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.427	0.133	0.560	N/A	N/A
	Left Tilt 15 Degree	0.251	0.133	0.384	N/A	N/A
	Right Cheek	0.370	0.133	0.503	N/A	N/A
	Right Tilt 15 Degree	0.170	0.133	0.303	N/A	N/A
Body	Front Side	0.769	0.066	0.835	N/A	N/A
	Back Side	1.203	0.066	1.269	N/A	N/A
	Left Side	0.375	0.066	0.441	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.066	0.066	N/A	N/A
	Bottom Side	0.635	0.066	0.701	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 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
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# MEASUREMENT 1

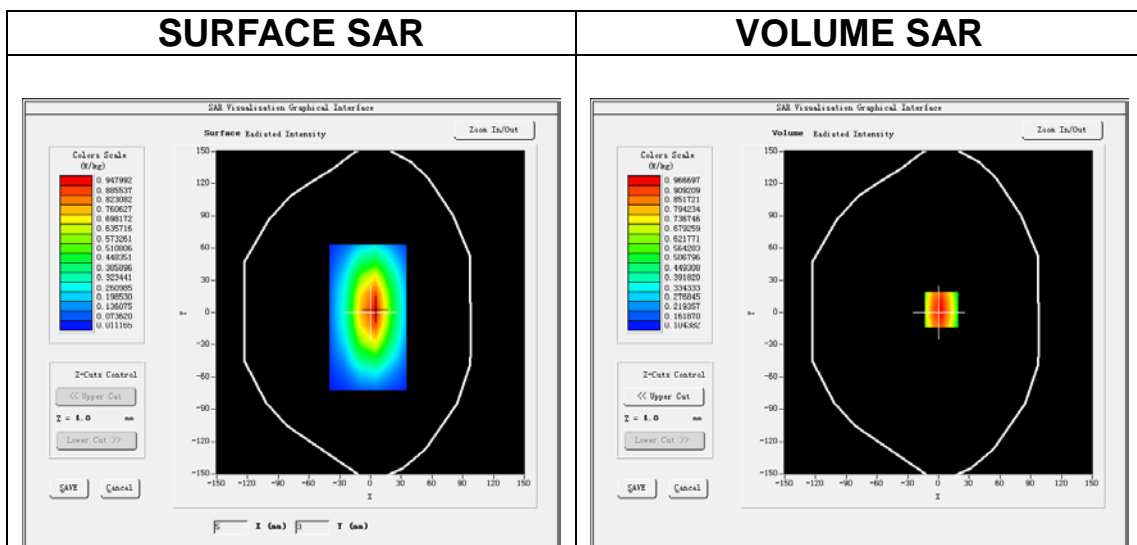
Date of measurement: 7/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW750</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.49</u>

## B. SAR Measurement Results

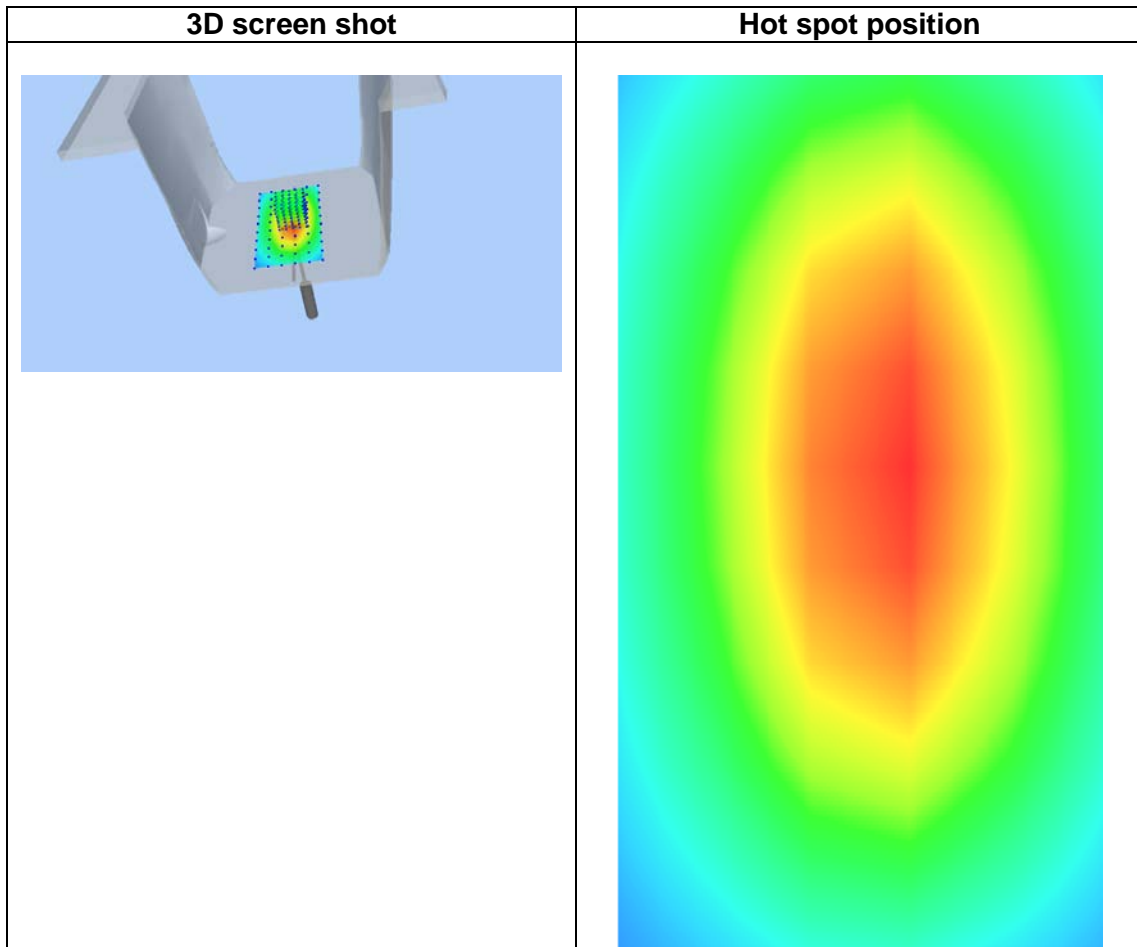
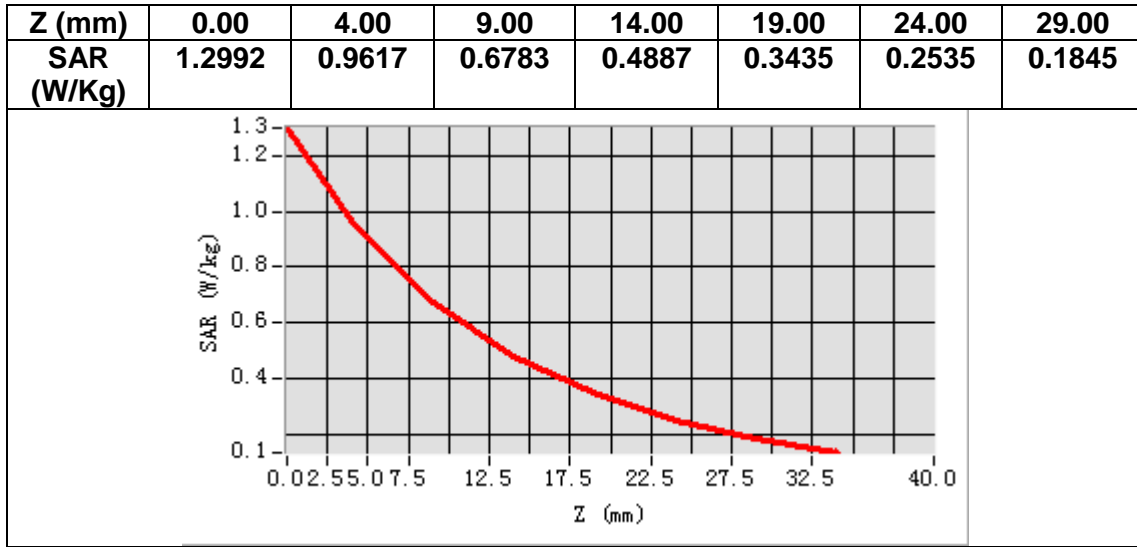
<b>Frequency (MHz)</b>	750.000000
<b>Relative permittivity (real part)</b>	40.852861
<b>Relative permittivity (imaginary part)</b>	21.523734
<b>Conductivity (S/m)</b>	0.896822
<b>Variation (%)</b>	2.730000



**Maximum location: X=3.00, Y=3.00**

**SAR Peak: 1.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.537332
<b>SAR 1g (W/Kg)</b>	0.775321



## MEASUREMENT 2

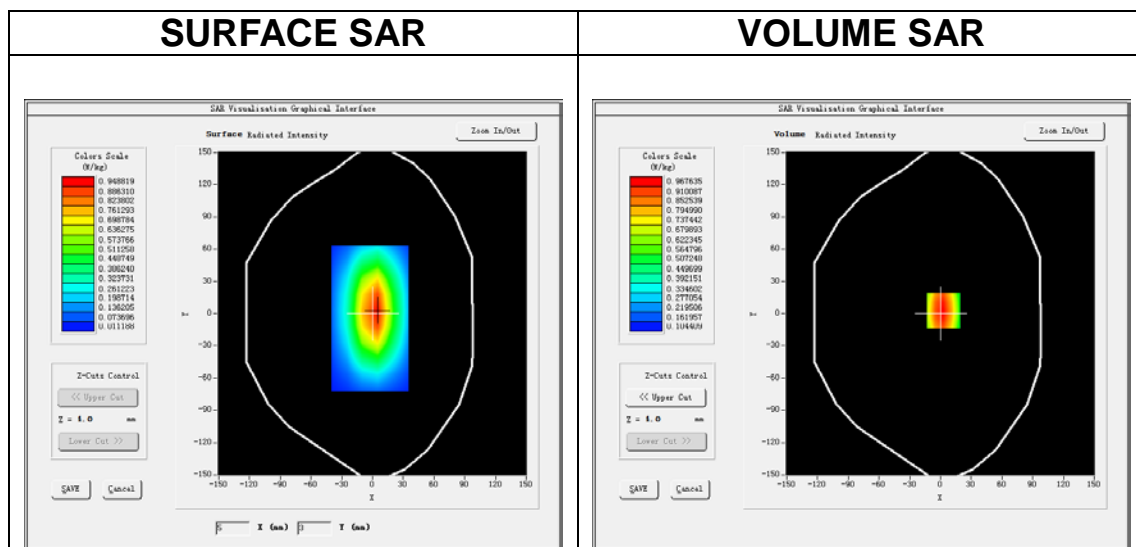
Date of measurement: 9/2/2023

### A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW835</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.50</u>

### B. SAR Measurement Results

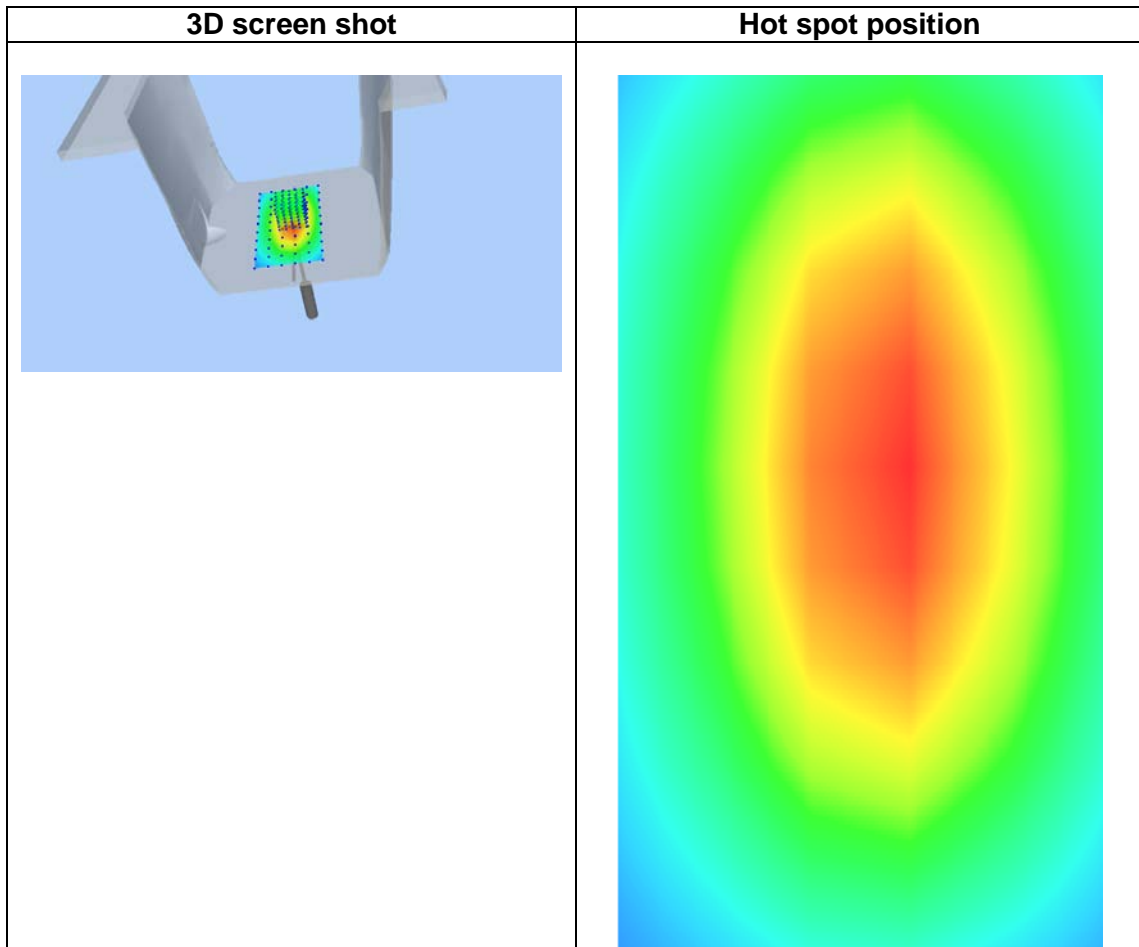
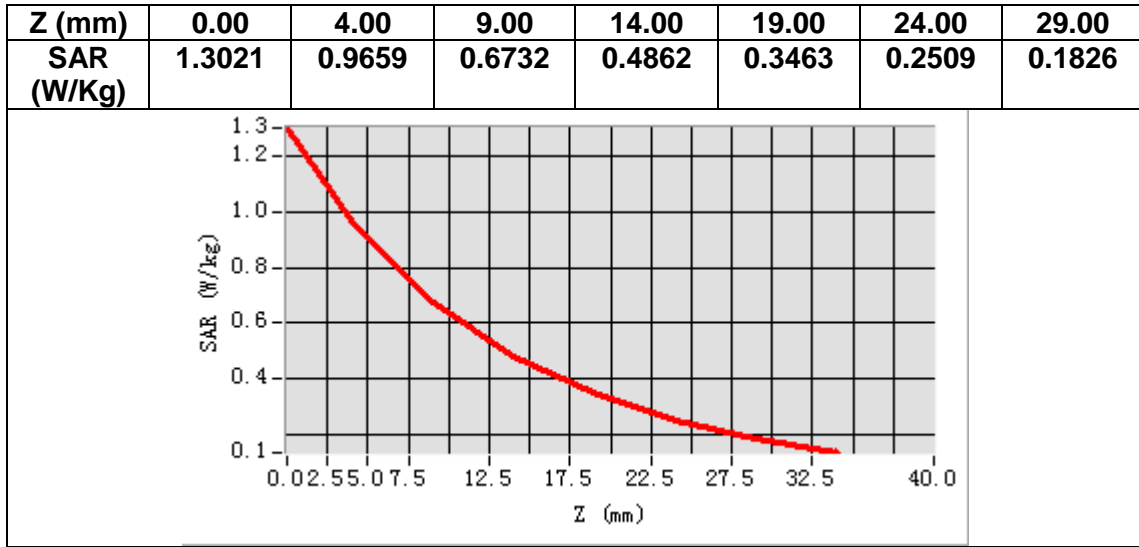
<b>Frequency (MHz)</b>	835.000000
<b>Relative permittivity (real part)</b>	41.588618
<b>Relative permittivity (imaginary part)</b>	19.937299
<b>Conductivity (S/m)</b>	0.924869
<b>Variation (%)</b>	-2.720000



**Maximum location: X=3.00, Y=3.00**

**SAR Peak: 1.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.622333
<b>SAR 1g (W/Kg)</b>	1.038172



# MEASUREMENT 3

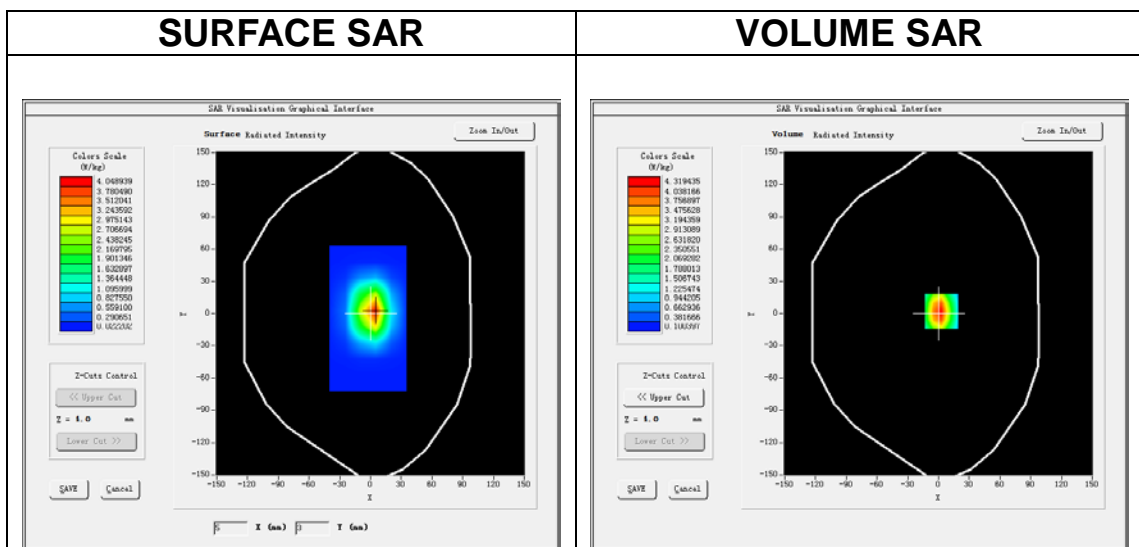
Date of measurement: 9/1/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW1800</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.73</u>

## B. SAR Measurement Results

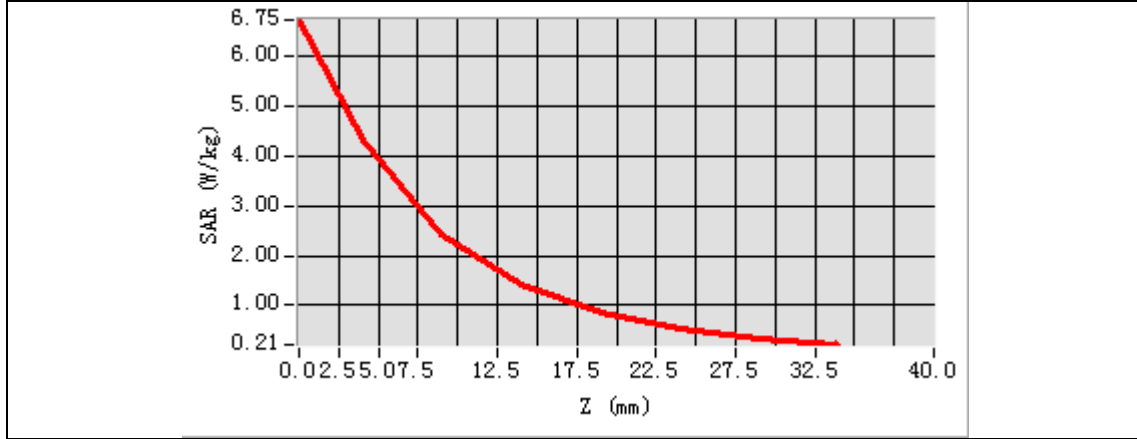
<b>Frequency (MHz)</b>	1800.000000
<b>Relative permittivity (real part)</b>	39.257168
<b>Relative permittivity (imaginary part)</b>	14.034195
<b>Conductivity (S/m)</b>	1.403420
<b>Variation (%)</b>	2.980000

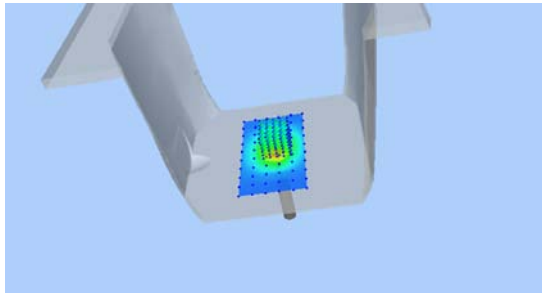
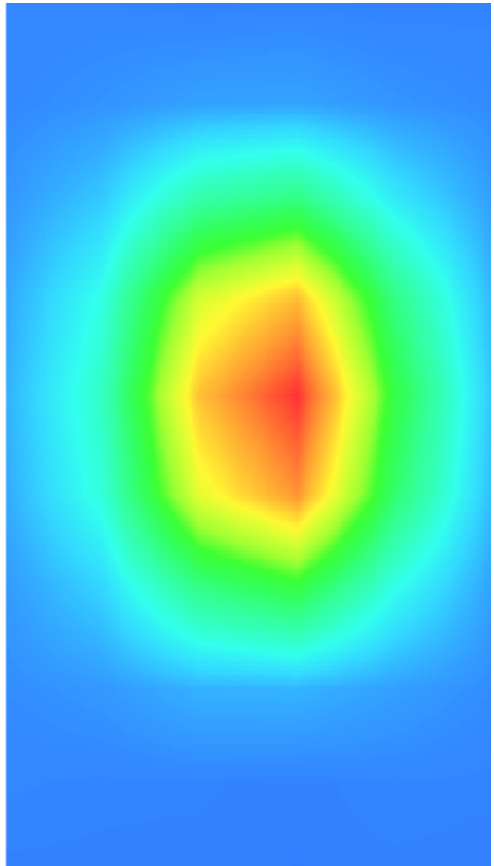


**Maximum location: X=3.00, Y=2.00**  
**SAR Peak: 6.82 W/kg**

<b>SAR 10g (W/Kg)</b>	2.023307
<b>SAR 1g (W/Kg)</b>	3.928066

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7474	4.3111	2.4329	1.4203	0.8572	0.5231	0.3234



3D screen shot	Hot spot position
	



# MEASUREMENT 4

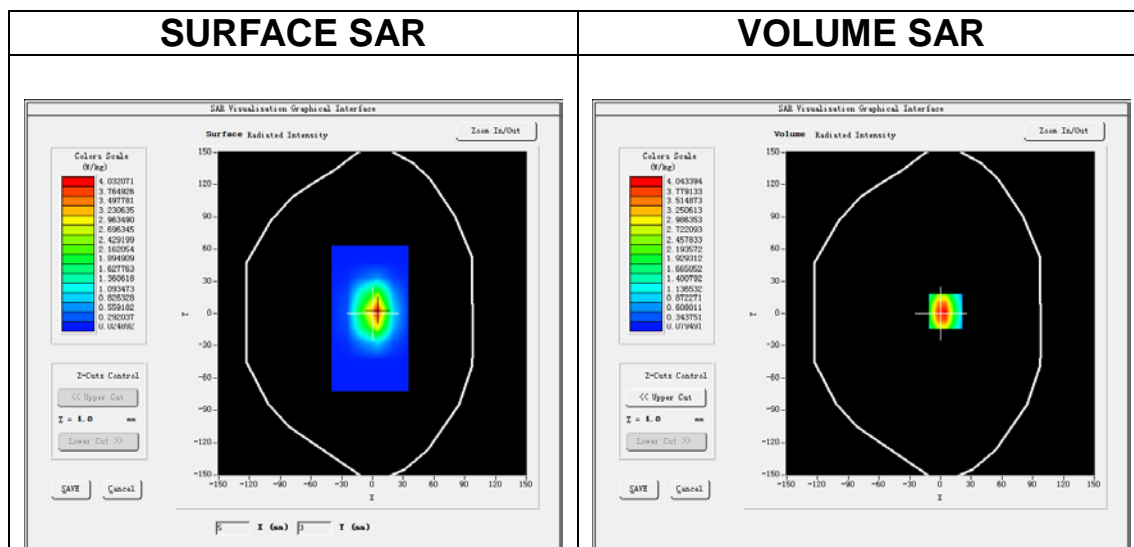
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.91</u>

## B. SAR Measurement Results

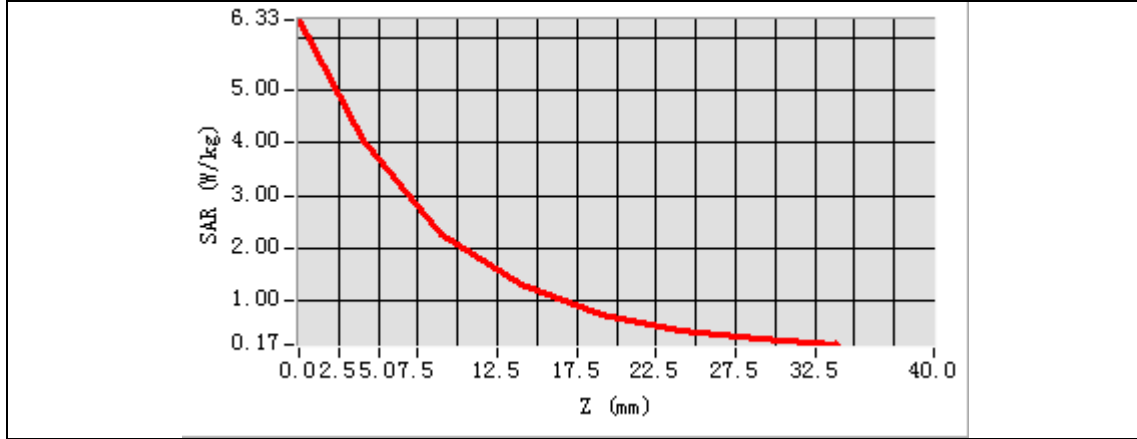
<b>Frequency (MHz)</b>	1900.000000
<b>Relative permittivity (real part)</b>	38.993232
<b>Relative permittivity (imaginary part)</b>	13.664752
<b>Conductivity (S/m)</b>	1.442390
<b>Variation (%)</b>	2.220000

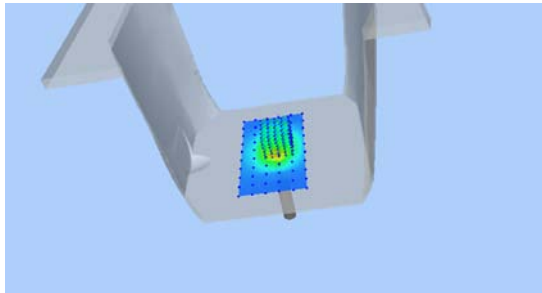
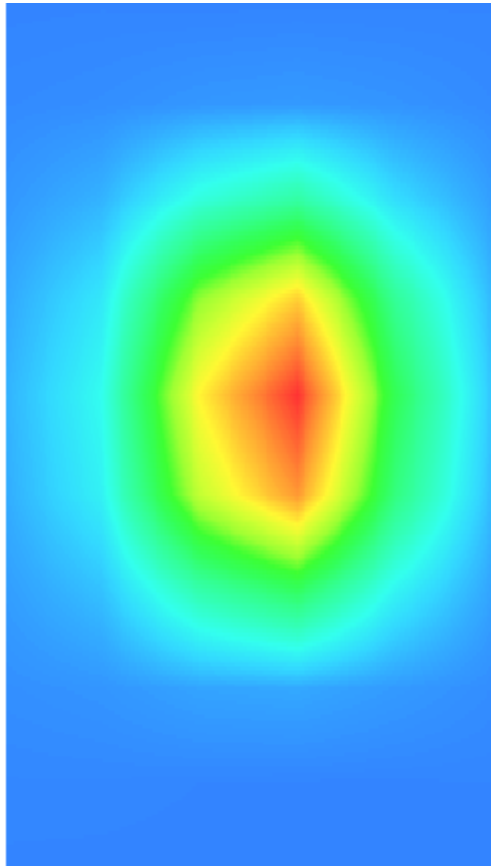


**Maximum location: X=5.00, Y=2.00**  
**SAR Peak: 6.70 W/kg**

<b>SAR 10g (W/Kg)</b>	2.145347
<b>SAR 1g (W/Kg)</b>	3.904221

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.3247	4.0419	2.2630	1.3026	0.7618	0.4514	0.2794



3D screen shot	Hot spot position
	

# MEASUREMENT 5

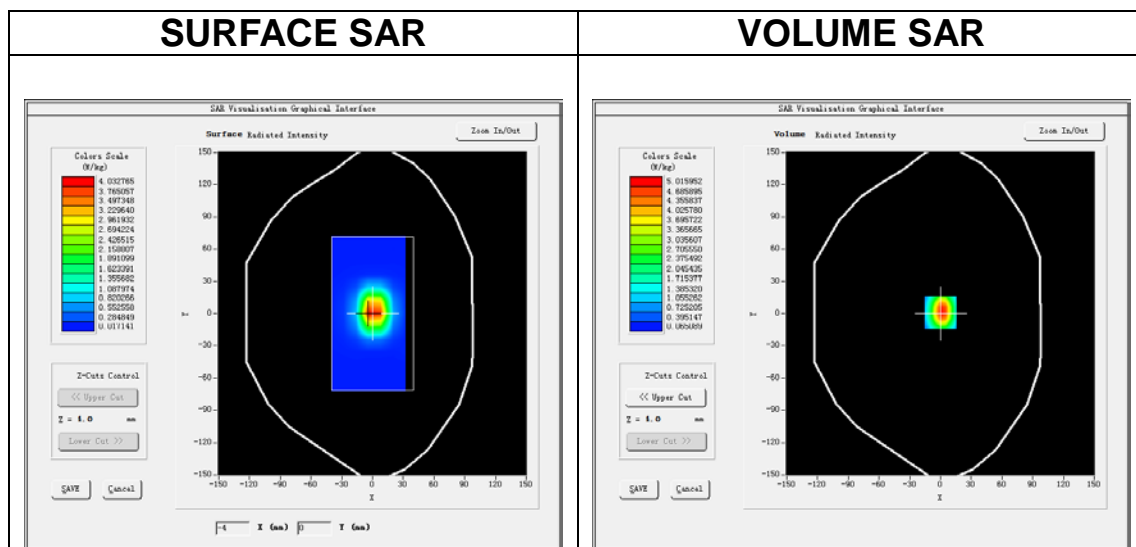
Date of measurement: 1/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW2450</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.98</u>

## B. SAR Measurement Results

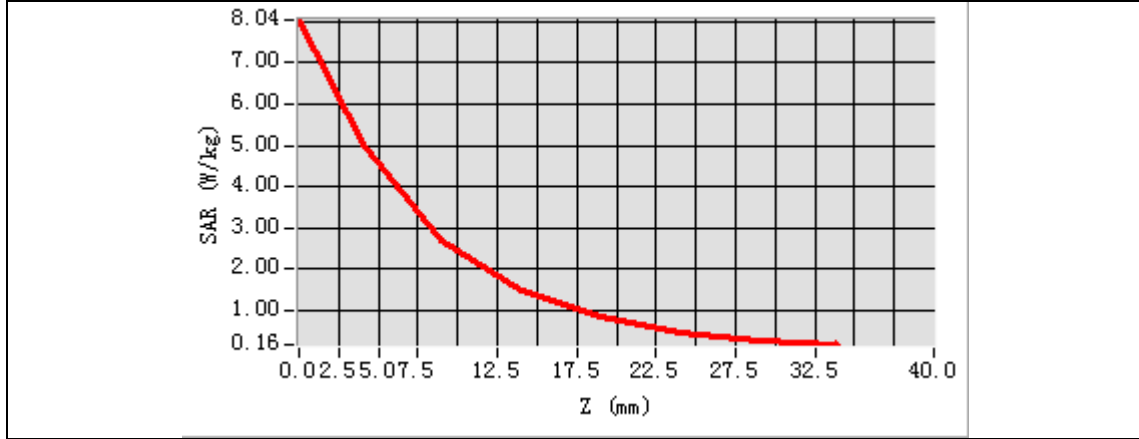
<b>Frequency (MHz)</b>	2450.000000
<b>Relative permittivity (real part)</b>	38.335539
<b>Relative permittivity (imaginary part)</b>	13.083327
<b>Conductivity (S/m)</b>	1.780786
<b>Variation (%)</b>	1.290000

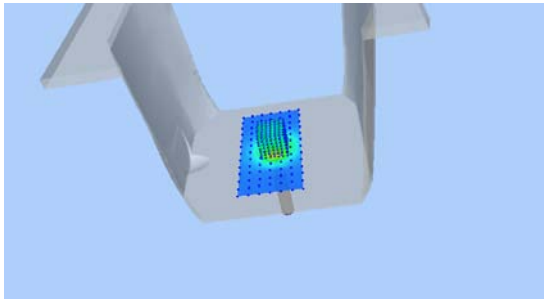
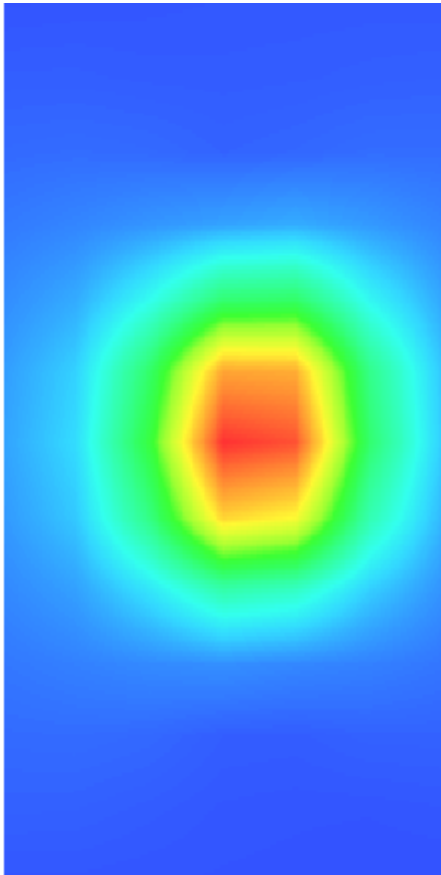


**Maximum location: X=0.00, Y=1.00**  
**SAR Peak: 8.14 W/kg**

<b>SAR 10g (W/Kg)</b>	2.601106
<b>SAR 1g (W/Kg)</b>	5.825340

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.0397	5.0153	2.6927	1.4826	0.8361	0.4698	0.2660



3D screen shot	Hot spot position
	

# MEASUREMENT 6

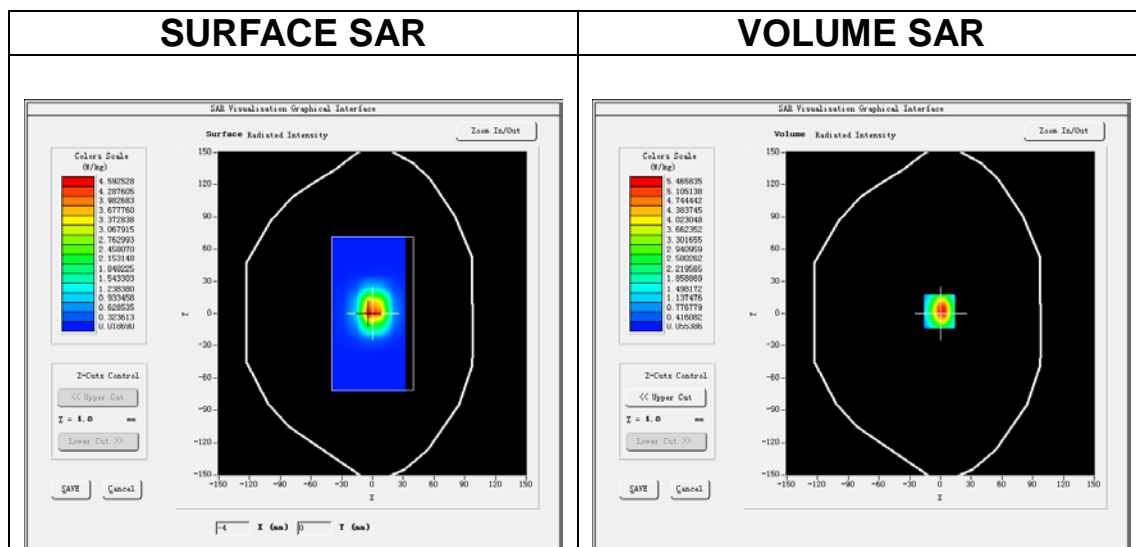
Date of measurement: 2/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW2600</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.87</u>

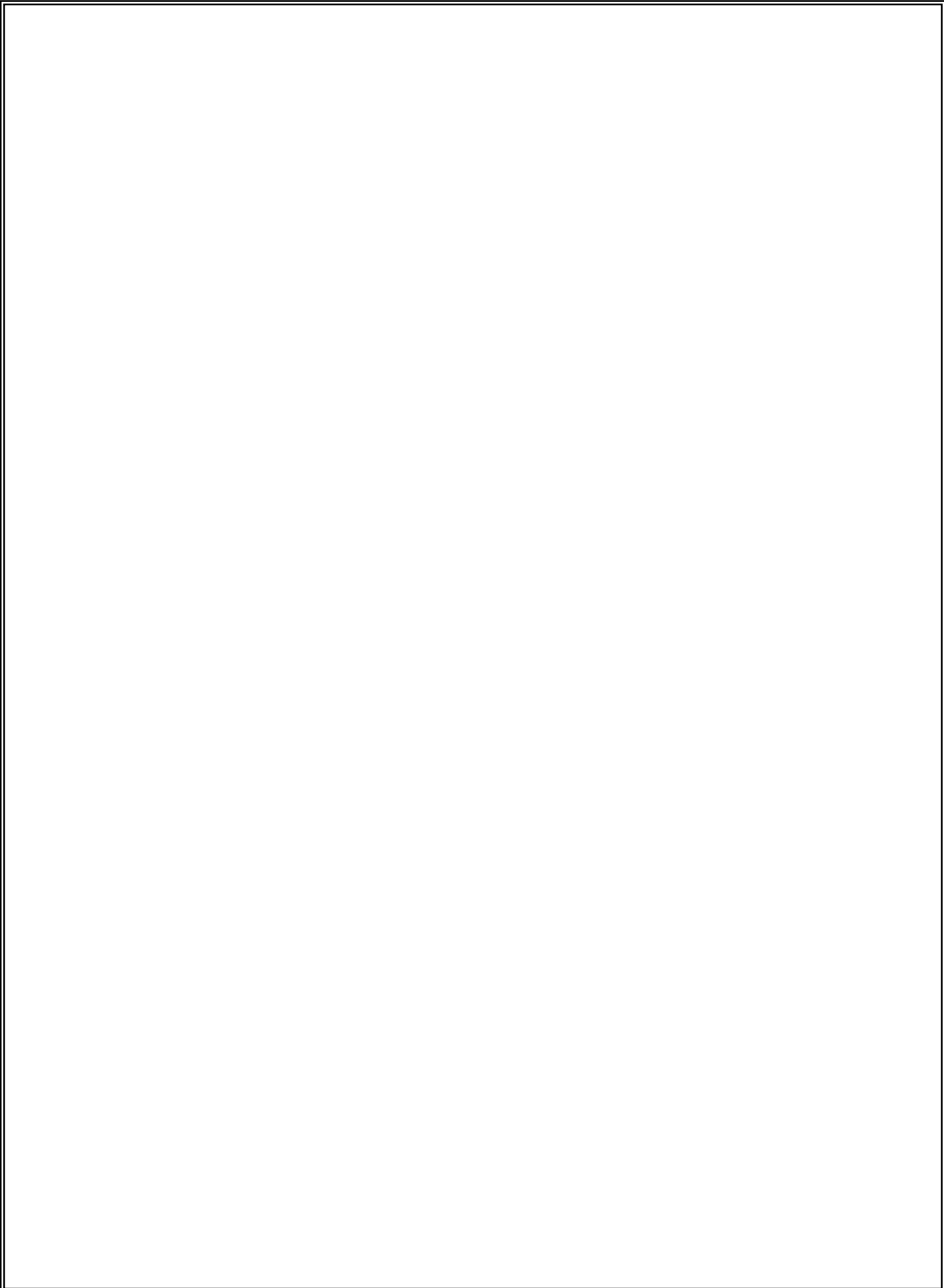
## B. SAR Measurement Results

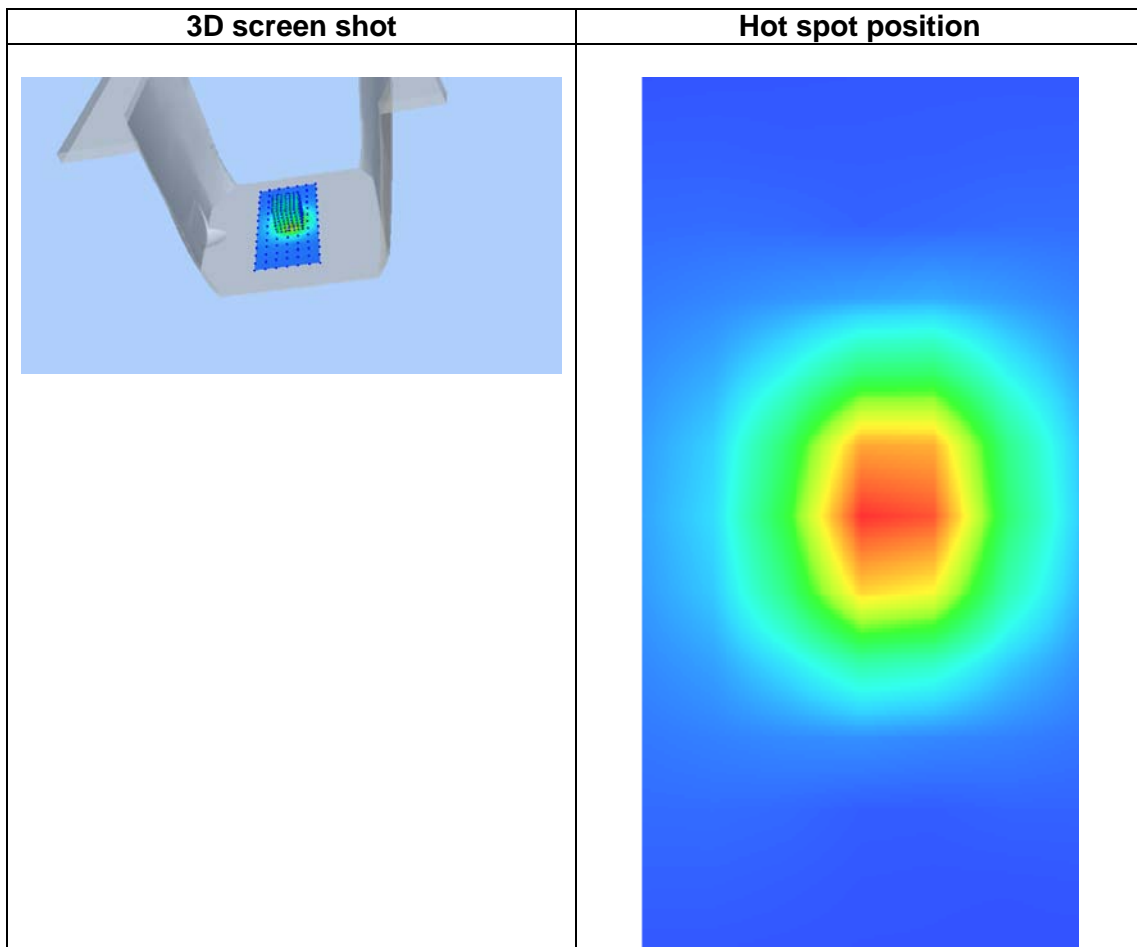
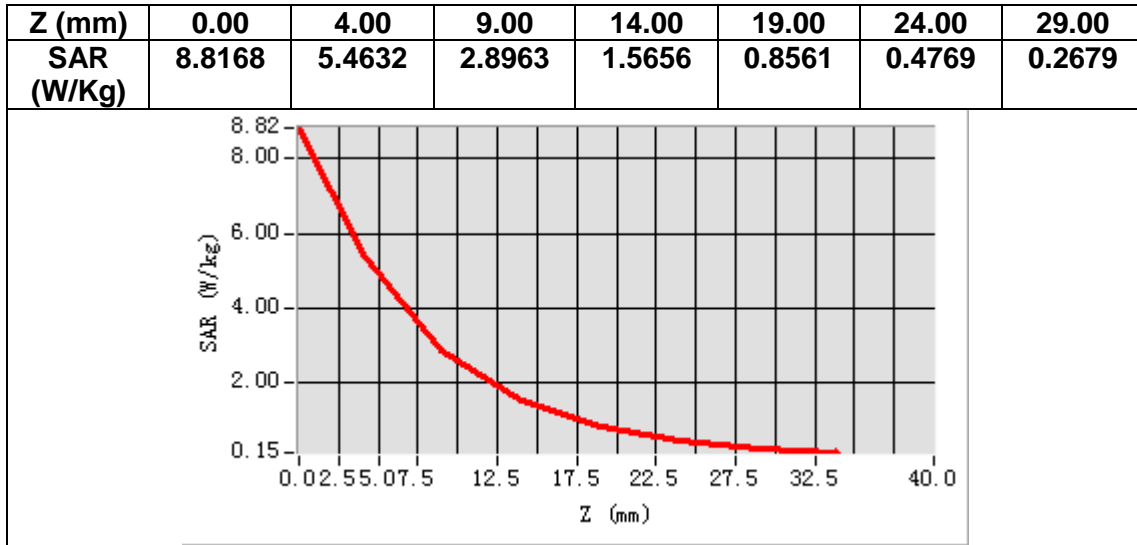
<b>Frequency (MHz)</b>	2600.000000
<b>Relative permittivity (real part)</b>	38.341347
<b>Relative permittivity (imaginary part)</b>	13.949739
<b>Conductivity (S/m)</b>	2.014962
<b>Variation (%)</b>	0.250000



**Maximum location: X=-1.00, Y=2.00**  
**SAR Peak: 9.07 W/kg**

<b>SAR 10g (W/Kg)</b>	2.480037
<b>SAR 1g (W/Kg)</b>	5.540199





# MEASUREMENT 7

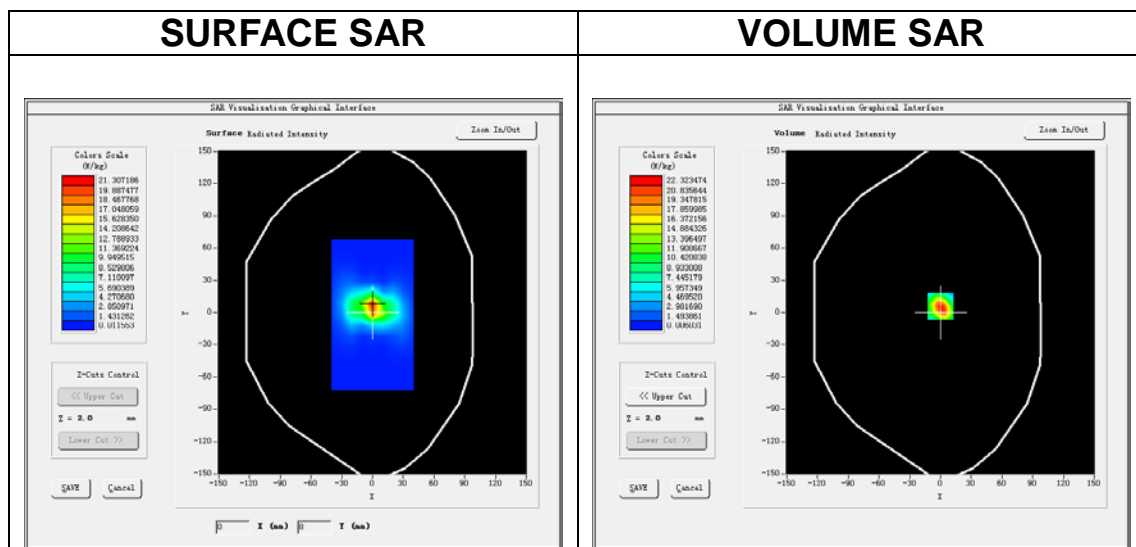
Date of measurement: 3/22023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW5200</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.80</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	5200.000000
<b>Relative permittivity (real part)</b>	36.277246
<b>Relative permittivity (imaginary part)</b>	16.631556
<b>Conductivity (S/m)</b>	4.804672
<b>Variation (%)</b>	2.800000



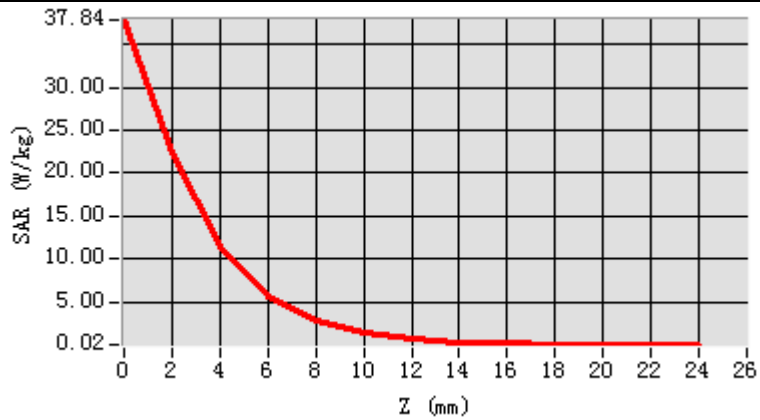
**Maximum location: X=0.00, Y=6.00**

**SAR Peak: 40.06 W/kg**

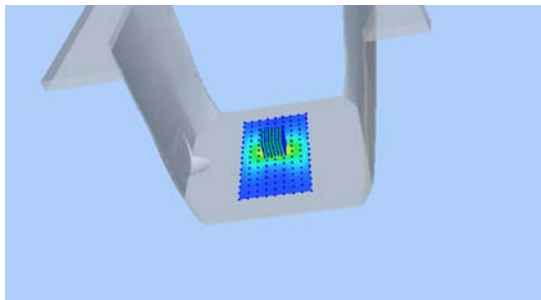
<b>SAR 10g (W/Kg)</b>	5.917162
<b>SAR 1g (W/Kg)</b>	17.631032



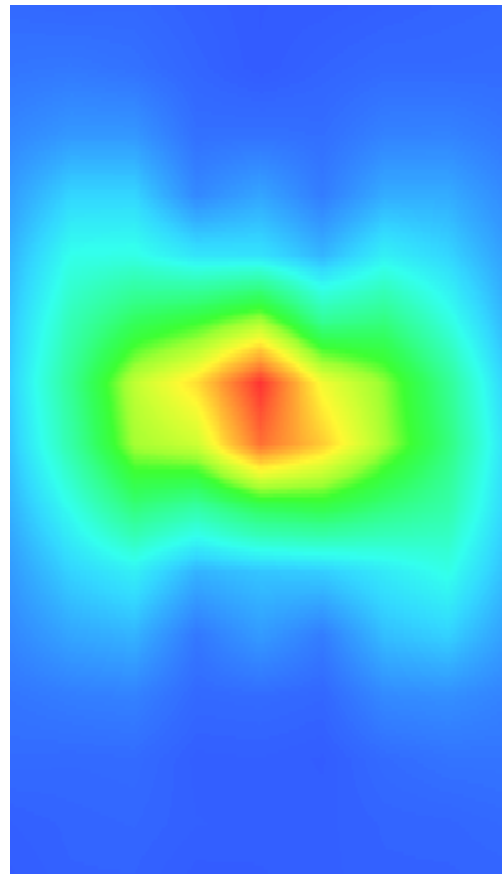
<b>Z (m)</b>	<b>0.00</b>	<b>2.00</b>	<b>4.00</b>	<b>6.00</b>	<b>8.00</b>	<b>10.00</b>	<b>12.00</b>	<b>14.00</b>	<b>16.00</b>	<b>18.00</b>	<b>20.00</b>	<b>22.00</b>
<b>SAR (W/Kg)</b>	<b>37.891</b>	<b>22.391</b>	<b>11.377</b>	<b>5.6694</b>	<b>2.8291</b>	<b>1.4043</b>	<b>0.7150</b>	<b>0.3637</b>	<b>0.1802</b>	<b>0.1008</b>	<b>0.0527</b>	<b>0.0397</b>



**3D screen shot**



**Hot spot position**



# MEASUREMENT 8

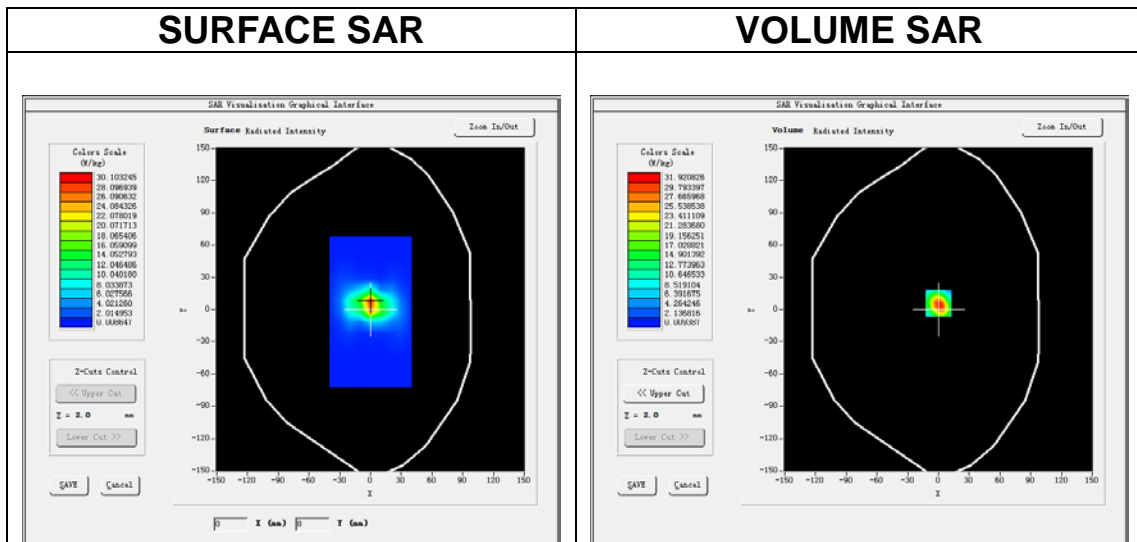
Date of measurement: 6/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW5800</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.07</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	5800.000000
<b>Relative permittivity (real part)</b>	34.856163
<b>Relative permittivity (imaginary part)</b>	16.533117
<b>Conductivity (S/m)</b>	5.327338
<b>Variation (%)</b>	-0.500000

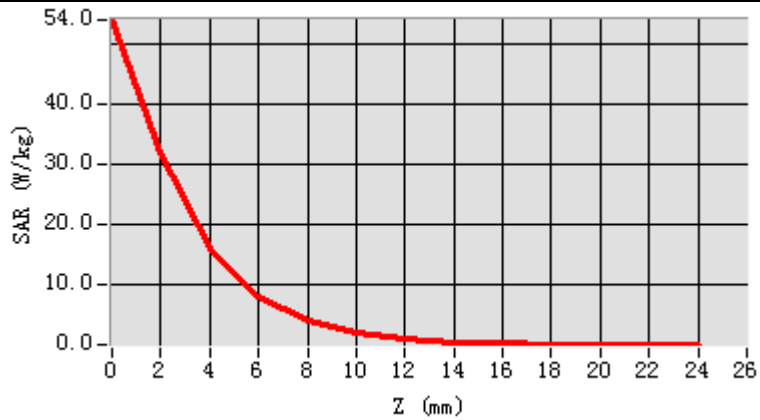


**Maximum location: X=0.00, Y=6.00**

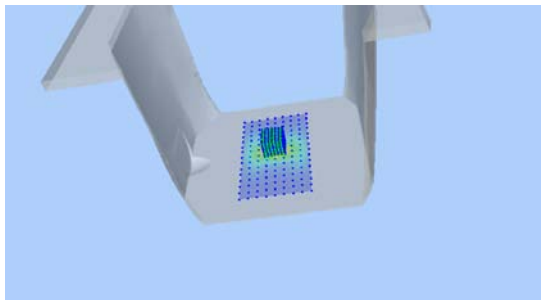
**SAR Peak: 57.37 W/kg**

<b>SAR 10g (W/Kg)</b>	6.282228
<b>SAR 1g (W/Kg)</b>	19.271190

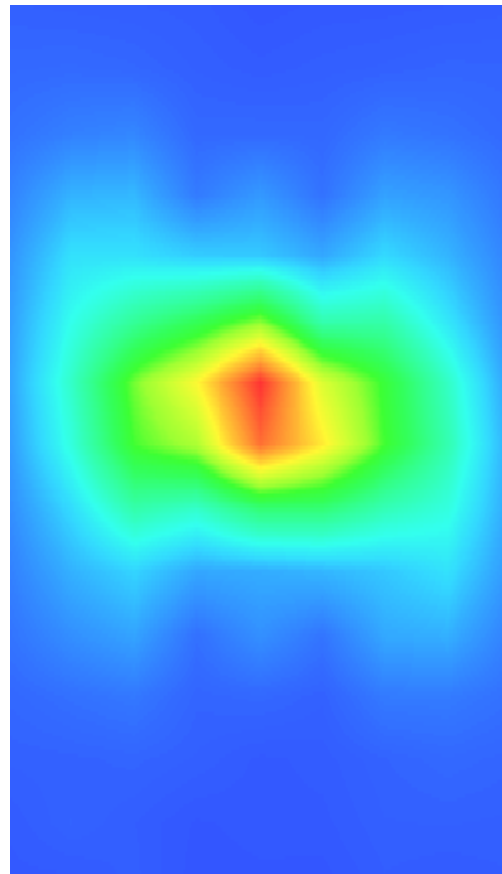
<b>Z (m m)</b>	<b>0.00</b>	<b>2.00</b>	<b>4.00</b>	<b>6.00</b>	<b>8.00</b>	<b>10.00</b>	<b>12.00</b>	<b>14.00</b>	<b>16.00</b>	<b>18.00</b>	<b>20.00</b>	<b>22.00</b>
<b>SAR (W/Kg)</b>	<b>54.036</b>	<b>31.948</b>	<b>16.144</b>	<b>8.1766</b>	<b>4.0890</b>	<b>2.0550</b>	<b>1.0361</b>	<b>0.5144</b>	<b>0.2795</b>	<b>0.1572</b>	<b>0.0788</b>	<b>0.0438</b>



**3D screen shot**



**Hot spot position**



### 13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 7 WCDMA Band 4 Head
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MEASUREMENT 10 WCDMA Band 5 Body
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MEASUREMENT 12 WLAN 5.8G Head
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MEASUREMENT 15 WLAN 2.4G Head
MEASUREMENT 16 WLAN 2.4G Body
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MEASUREMENT 23 LTE Band 7 Head
MEASUREMENT 24 LTE Band 7 Body
MEASUREMENT 25 LTE Band 12 Head
MEASUREMENT 26 LTE Band 12 Body
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**MEASUREMENT 39 LTE Band 41 Head**

**MEASUREMENT 40 LTE Band 41 Body**

**MEASUREMENT 41 LTE Band 66 Head**

**MEASUREMENT 42 LTE Band 66 Body**

# MEASUREMENT 1

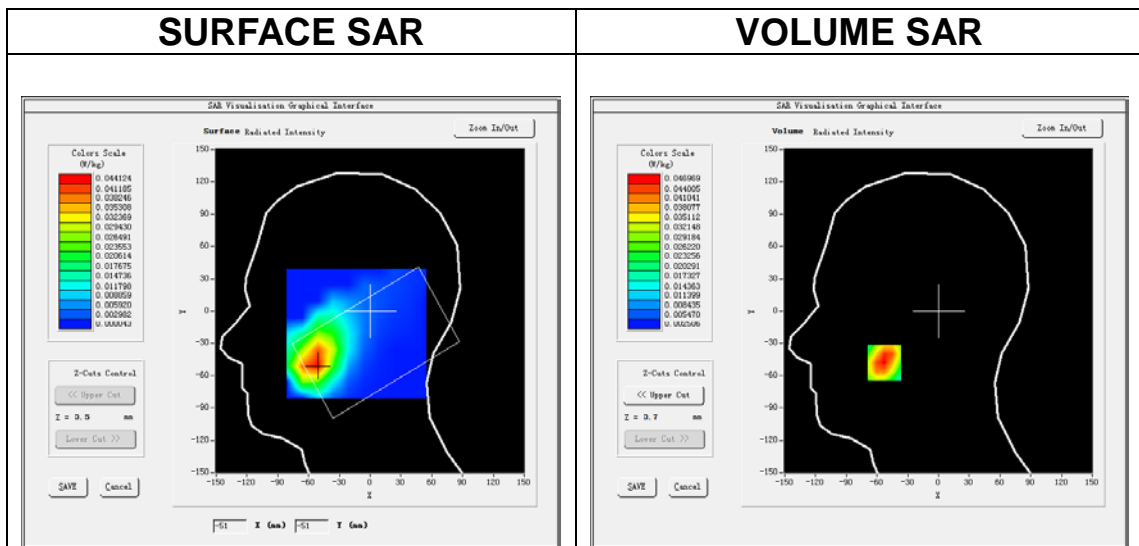
Date of measurement: 9/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>GSM850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 2.0)</u>
<b>ConvF</b>	<u>1.50</u>

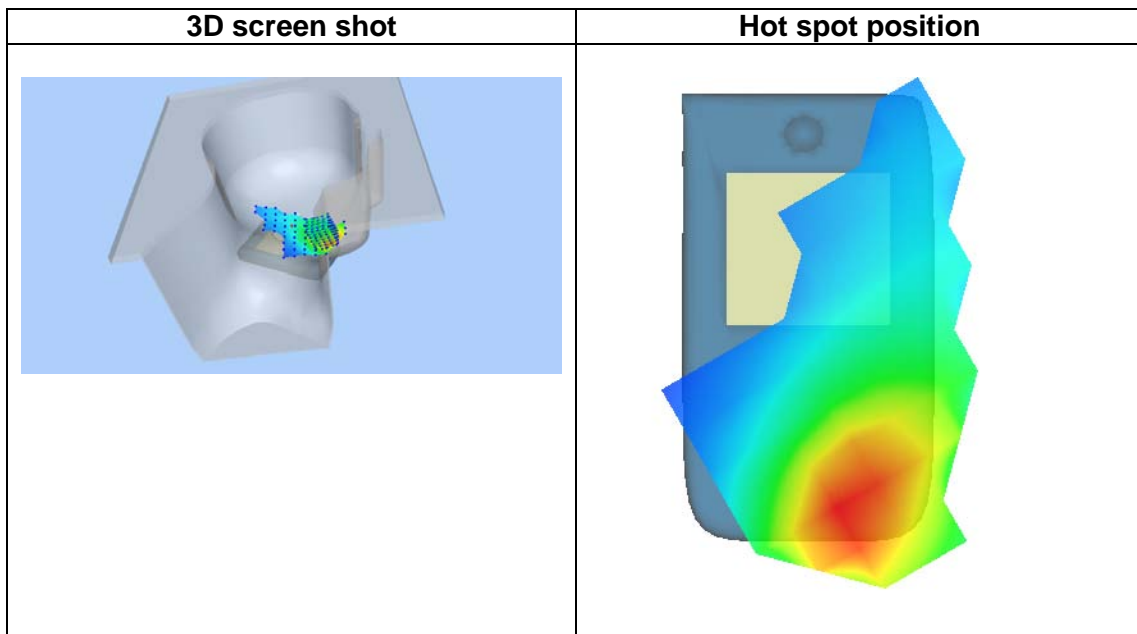
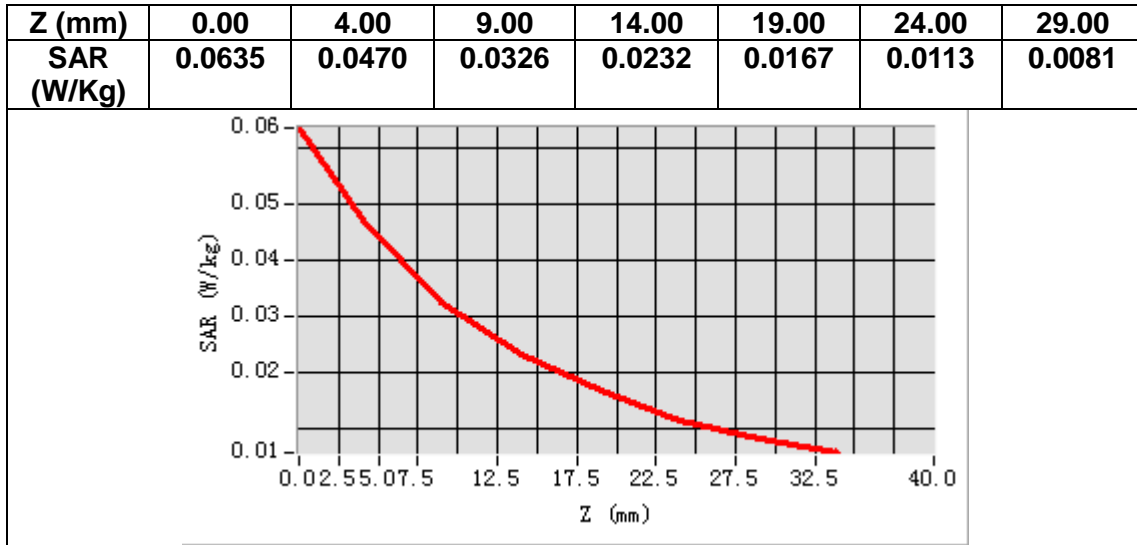
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.504276
<b>Relative permittivity (imaginary part)</b>	19.963139
<b>Conductivity (S/m)</b>	0.927621
<b>Variation (%)</b>	-3.910000



**Maximum location: X=-53.00, Y=-48.00**  
**SAR Peak: 0.07 W/kg**

<b>SAR 10g (W/Kg)</b>	0.029050
<b>SAR 1g (W/Kg)</b>	0.046399



# MEASUREMENT 2

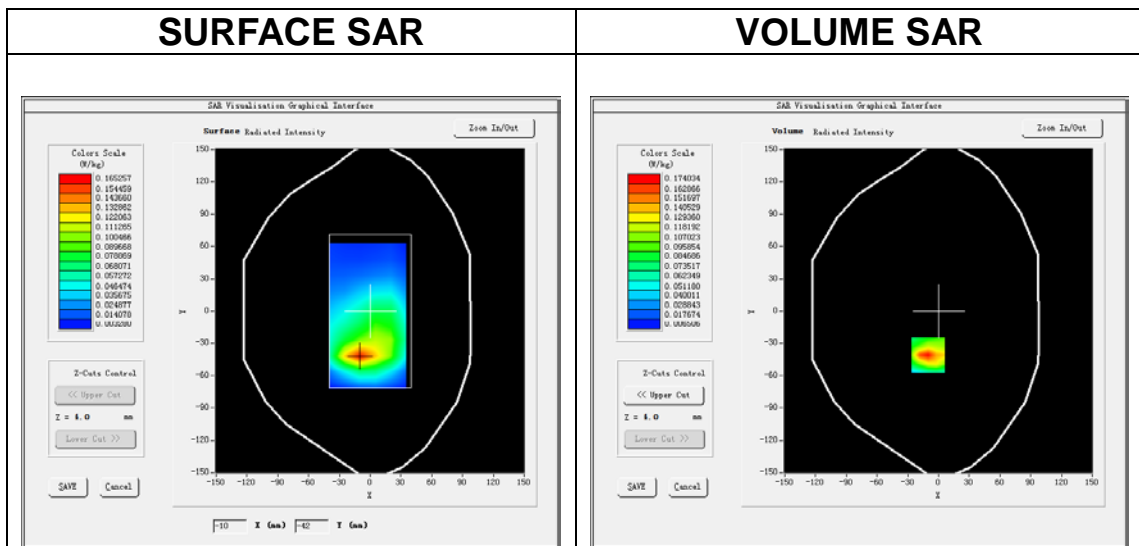
Date of measurement: 9/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>GSM850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 2.0)</u>
<b>ConvF</b>	<u>1.50</u>

## B. SAR Measurement Results

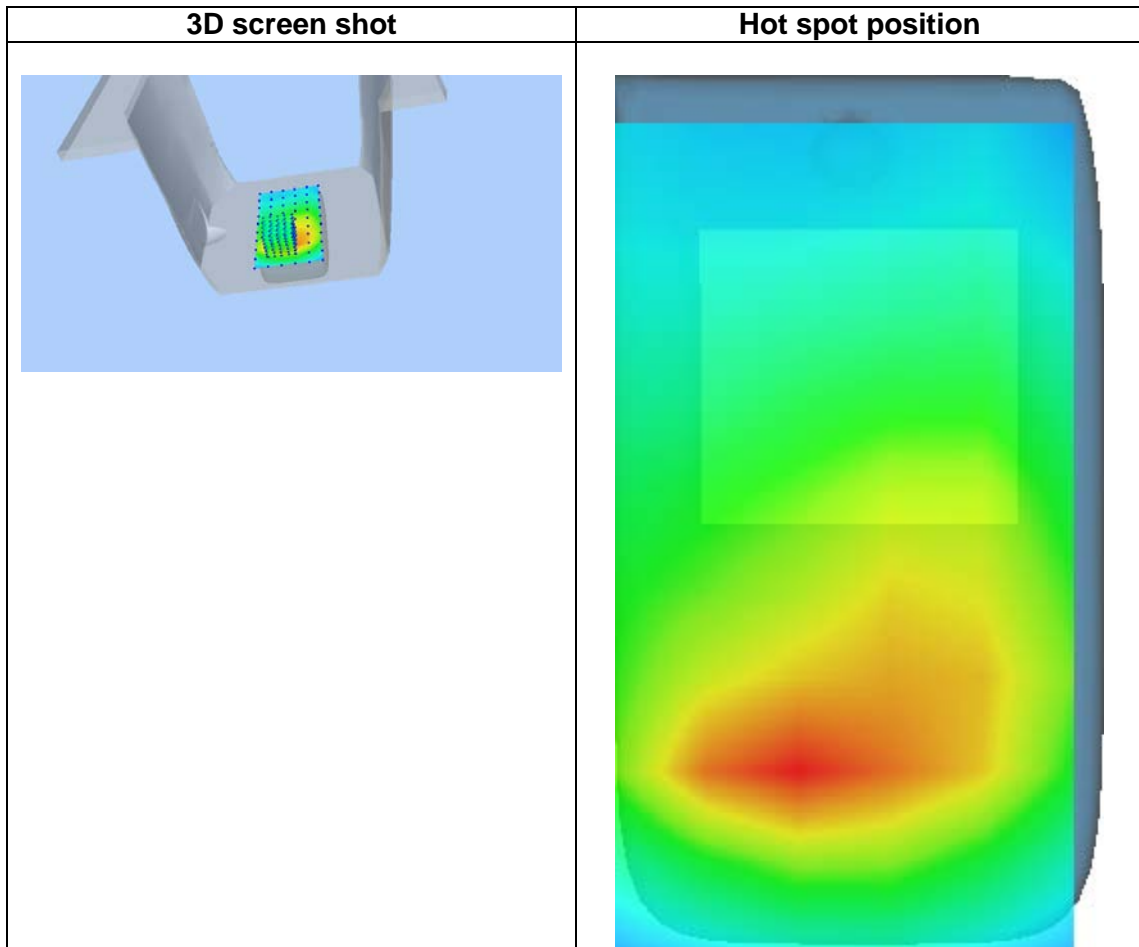
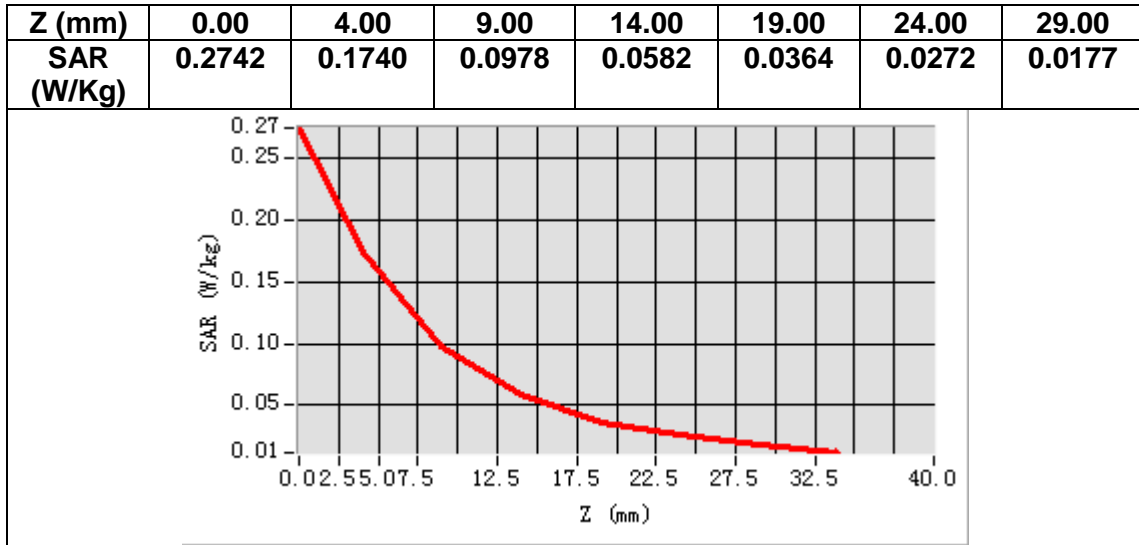
<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.504276
<b>Relative permittivity (imaginary part)</b>	19.963139
<b>Conductivity (S/m)</b>	0.927621
<b>Variation (%)</b>	-0.710000



**Maximum location: X=-10.00, Y=-41.00**  
**SAR Peak: 0.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.087692
<b>SAR 1g (W/Kg)</b>	0.164373





# MEASUREMENT 3

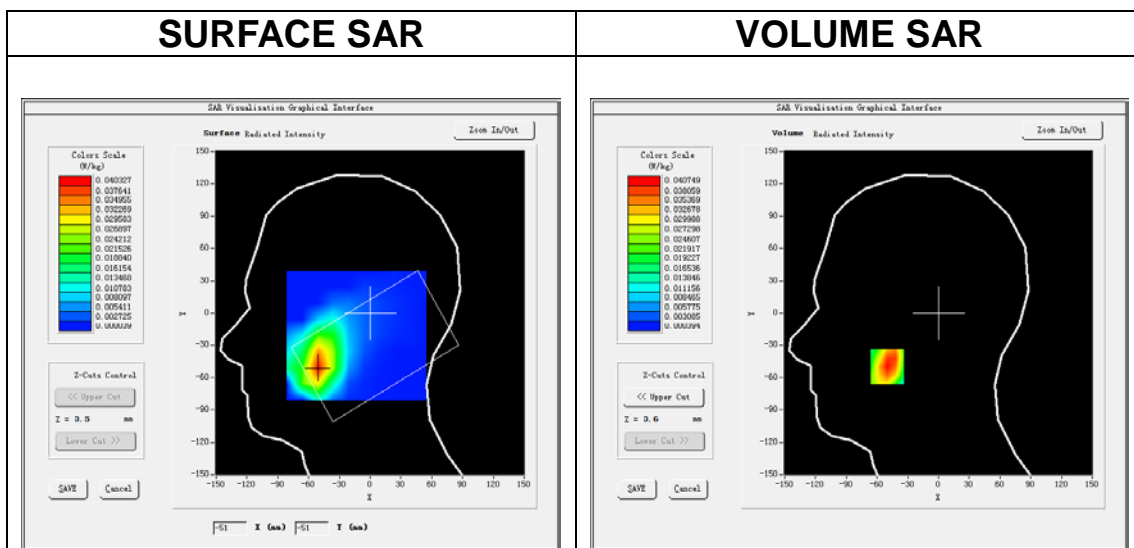
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>GSM1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 2.0)</u>
<b>ConvF</b>	<u>1.91</u>

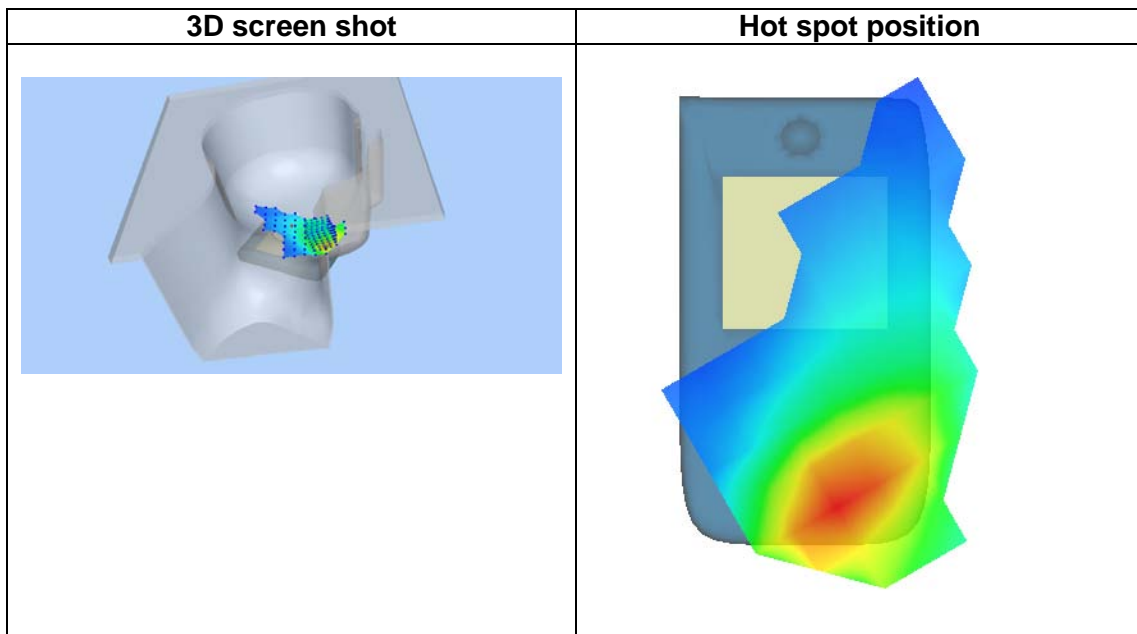
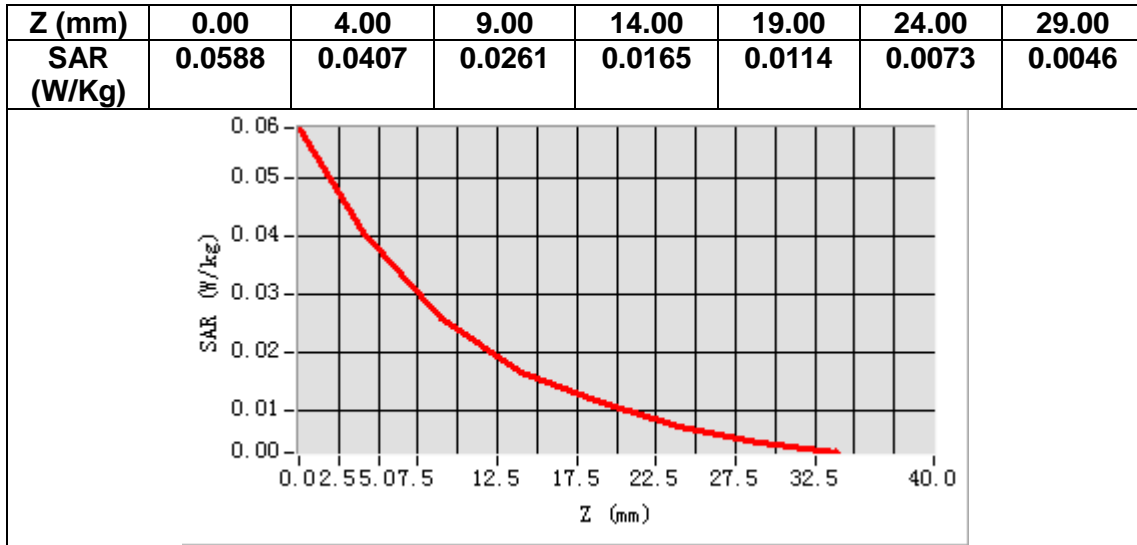
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.079632
<b>Relative permittivity (imaginary part)</b>	13.682552
<b>Conductivity (S/m)</b>	1.429067
<b>Variation (%)</b>	-0.280000



**Maximum location: X=-50.00, Y=-50.00**  
**SAR Peak: 0.06 W/kg**

<b>SAR 10g (W/Kg)</b>	0.022892
<b>SAR 1g (W/Kg)</b>	0.039711



# MEASUREMENT 4

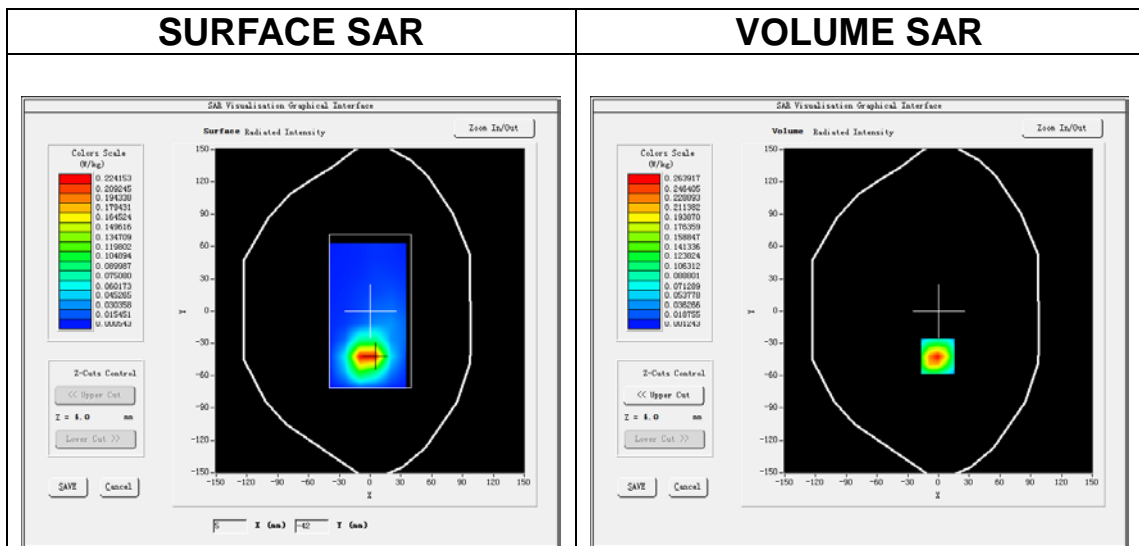
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>GSM1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 2.0)</u>
<b>ConvF</b>	<u>1.91</u>

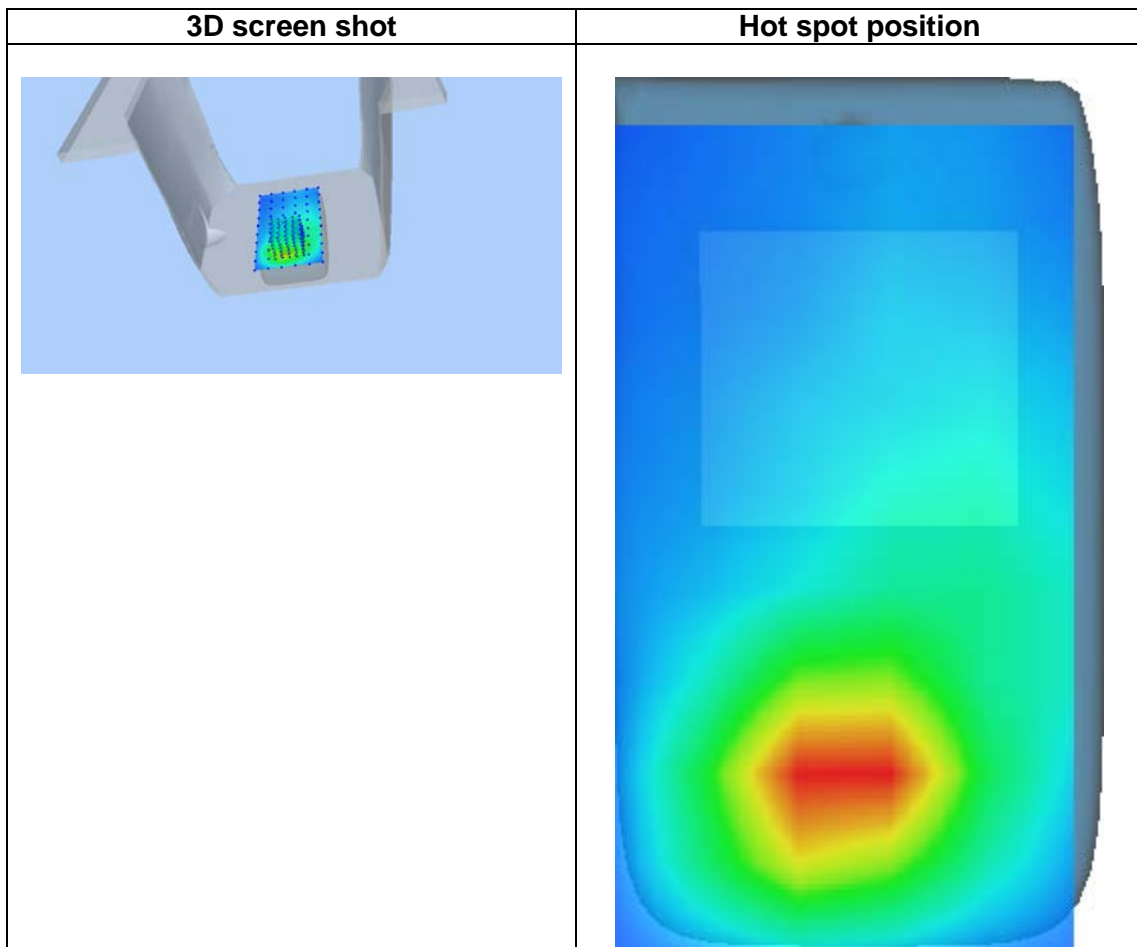
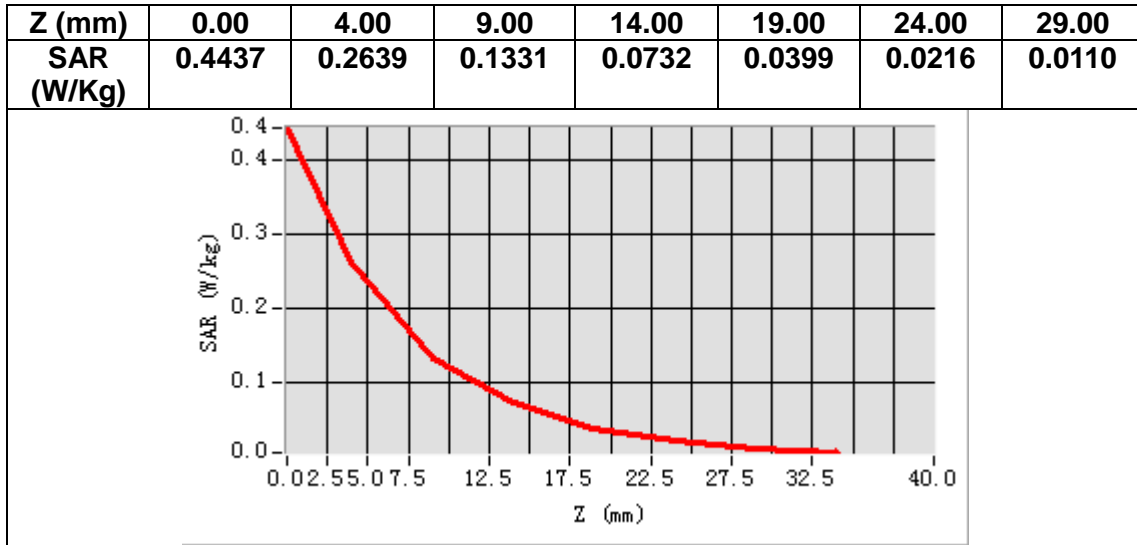
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.079632
<b>Relative permittivity (imaginary part)</b>	13.682552
<b>Conductivity (S/m)</b>	1.429067
<b>Variation (%)</b>	0.140000



**Maximum location: X=-1.00, Y=-42.00**  
**SAR Peak: 0.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.118521
<b>SAR 1g (W/Kg)</b>	0.253846



# MEASUREMENT 5

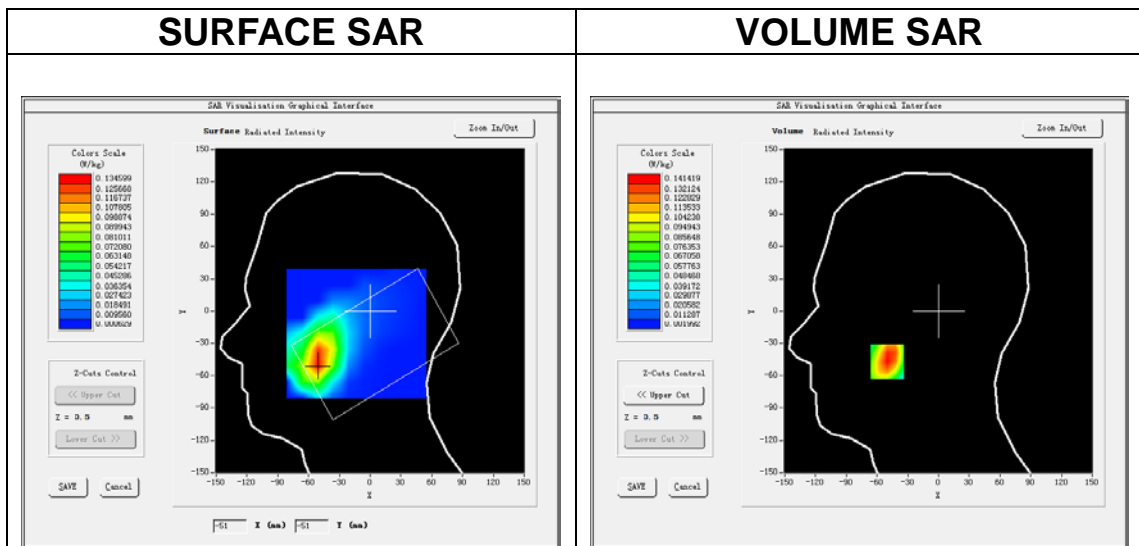
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>Band2_WCDMA1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.91</u>

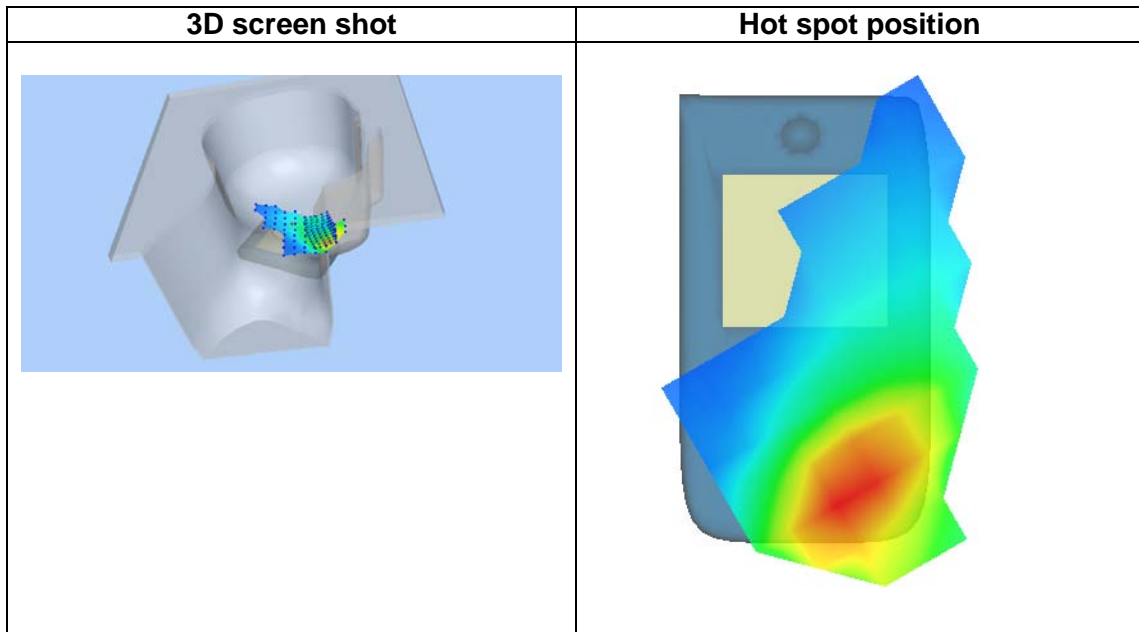
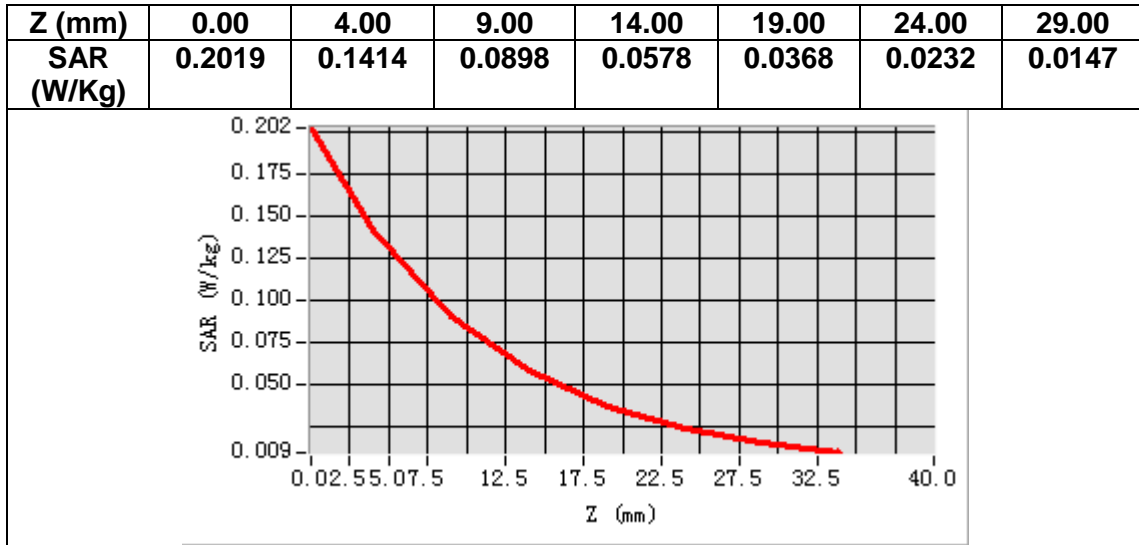
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.079632
<b>Relative permittivity (imaginary part)</b>	13.682552
<b>Conductivity (S/m)</b>	1.429067
<b>Variation (%)</b>	-2.040000



**Maximum location: X=-50.00, Y=-47.00**  
**SAR Peak: 0.21 W/kg**

<b>SAR 10g (W/Kg)</b>	0.080083
<b>SAR 1g (W/Kg)</b>	0.137561



# MEASUREMENT 6

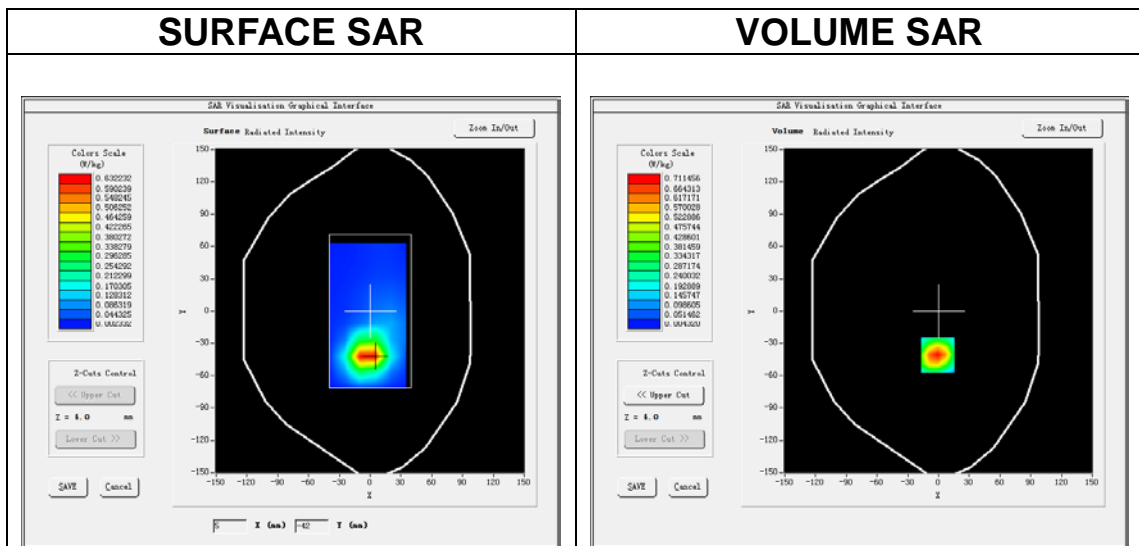
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>Band2_WCDMA1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.91</u>

## B. SAR Measurement Results

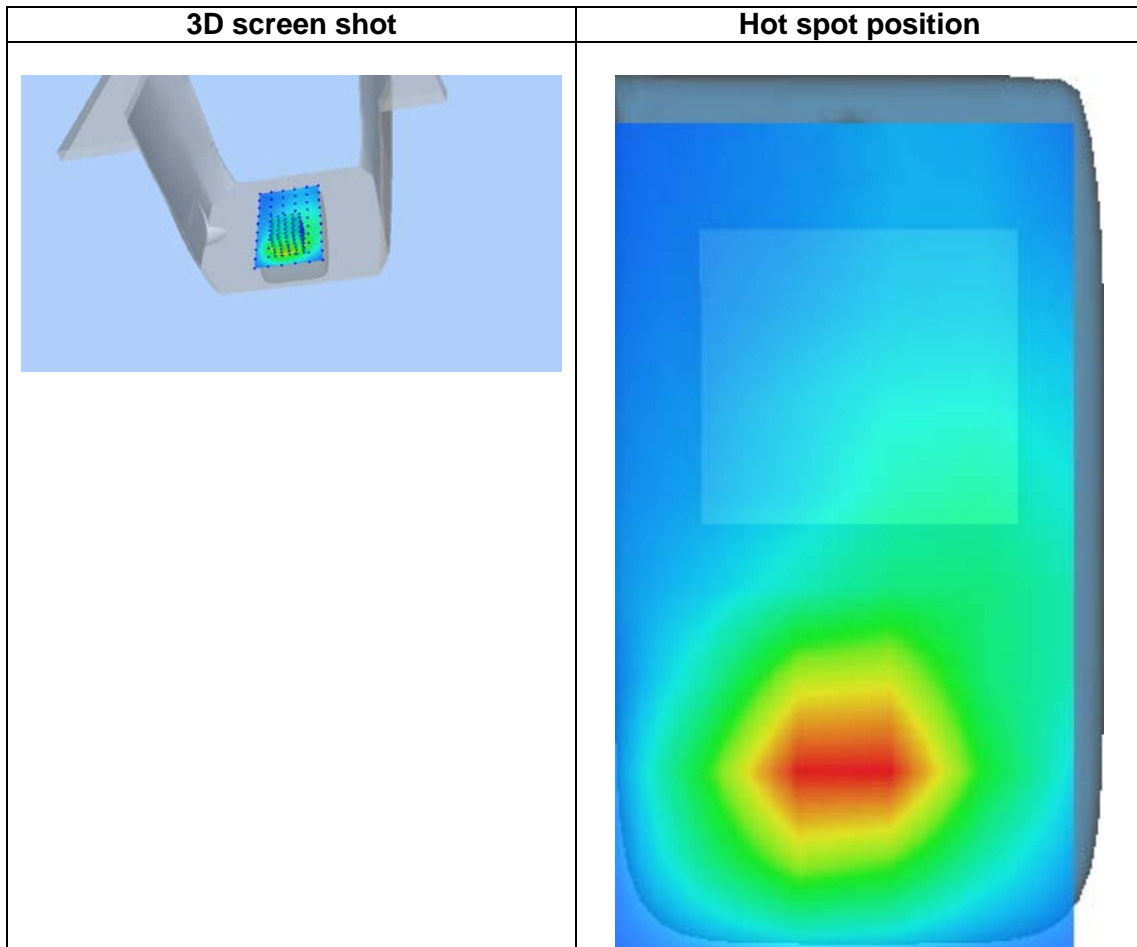
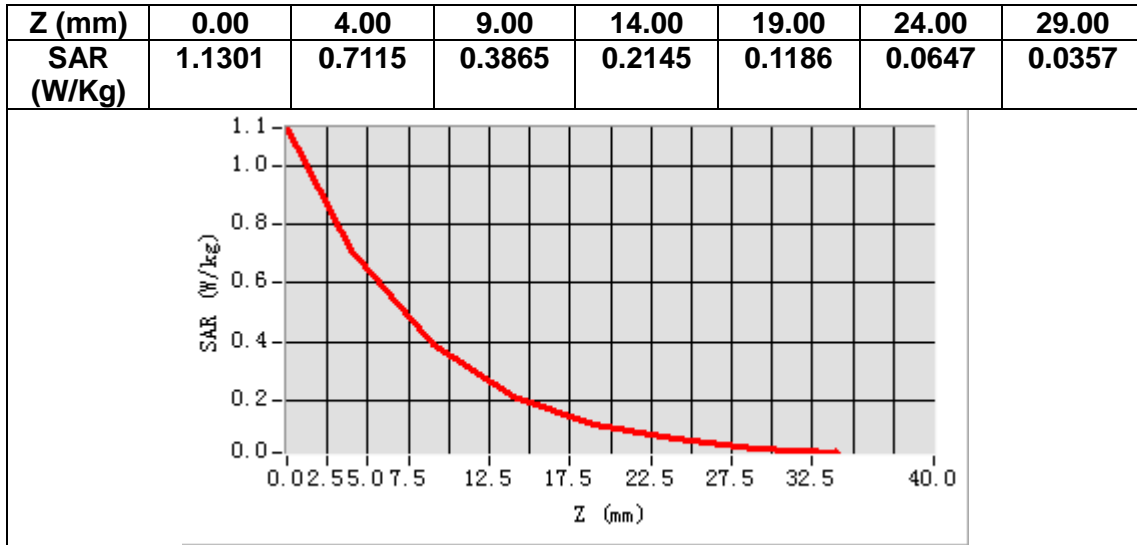
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.079632
<b>Relative permittivity (imaginary part)</b>	13.682552
<b>Conductivity (S/m)</b>	1.429067
<b>Variation (%)</b>	-3.230000



**Maximum location: X=-1.00, Y=-41.00**  
**SAR Peak: 1.13 W/kg**

<b>SAR 10g (W/Kg)</b>	0.340863
<b>SAR 1g (W/Kg)</b>	0.683406





# MEASUREMENT 7

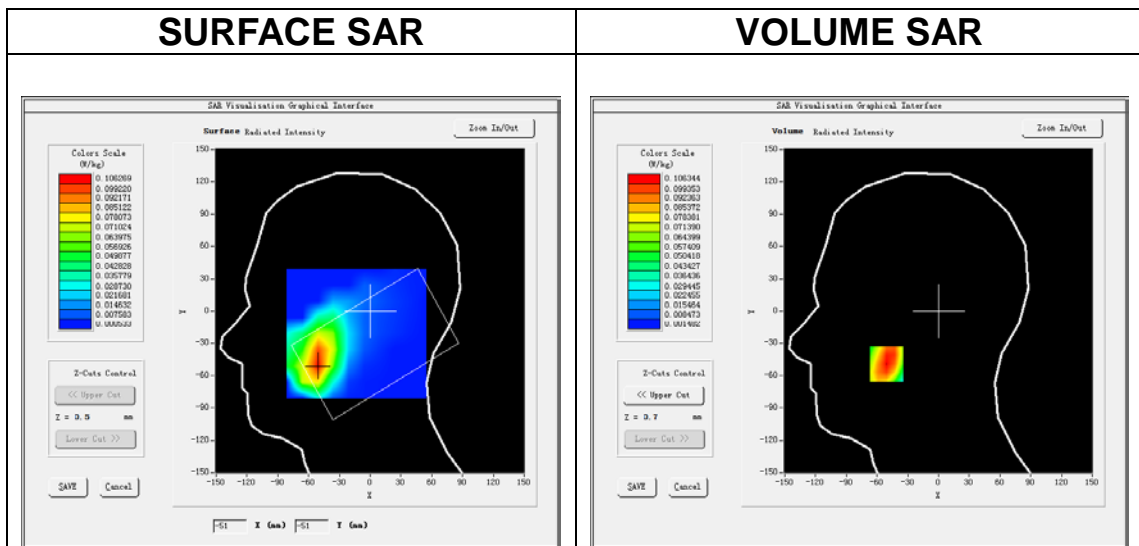
Date of measurement: 29/1/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>Band4_WCDMA1700</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.73</u>

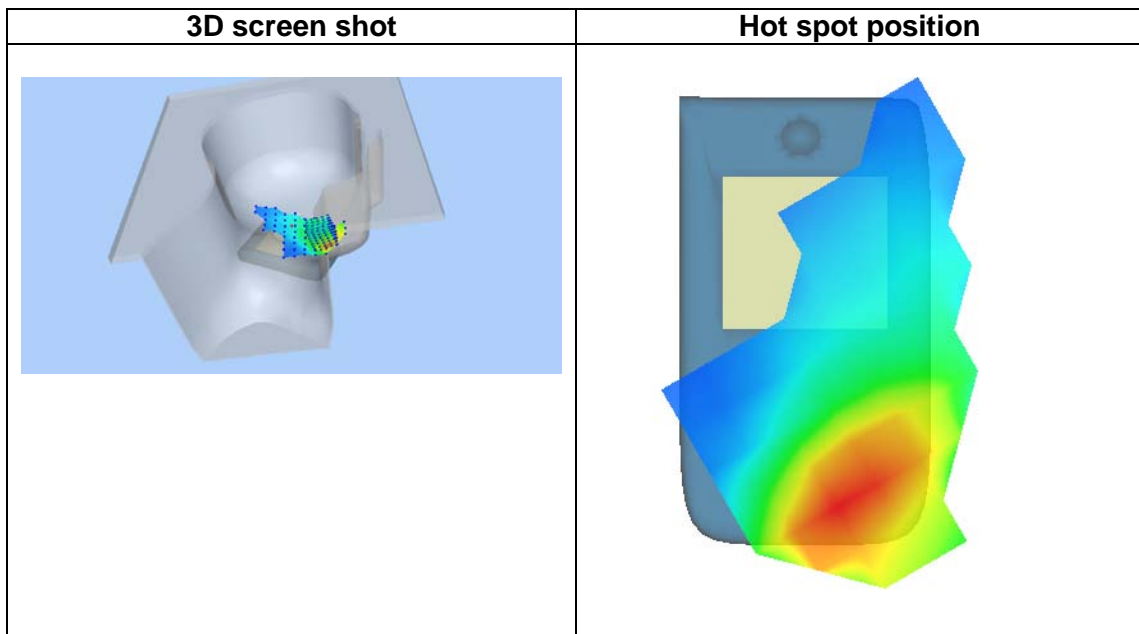
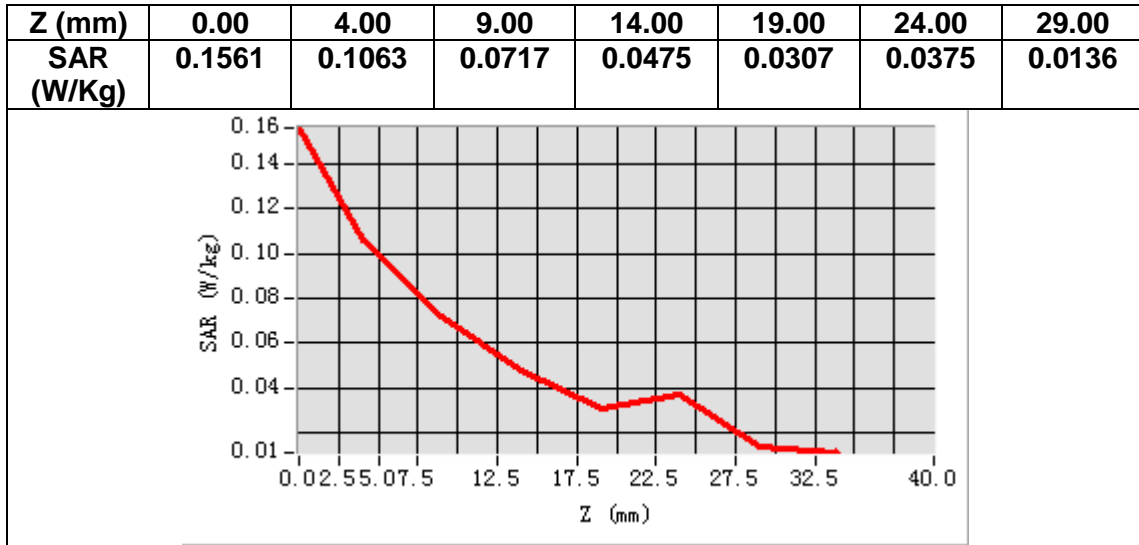
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1732.600000
<b>Relative permittivity (real part)</b>	39.716869
<b>Relative permittivity (imaginary part)</b>	13.986495
<b>Conductivity (S/m)</b>	1.345812
<b>Variation (%)</b>	-0.880000



**Maximum location: X=-51.00, Y=-49.00**  
**SAR Peak: 0.18 W/kg**

<b>SAR 10g (W/Kg)</b>	0.062644
<b>SAR 1g (W/Kg)</b>	0.107209



# MEASUREMENT 8

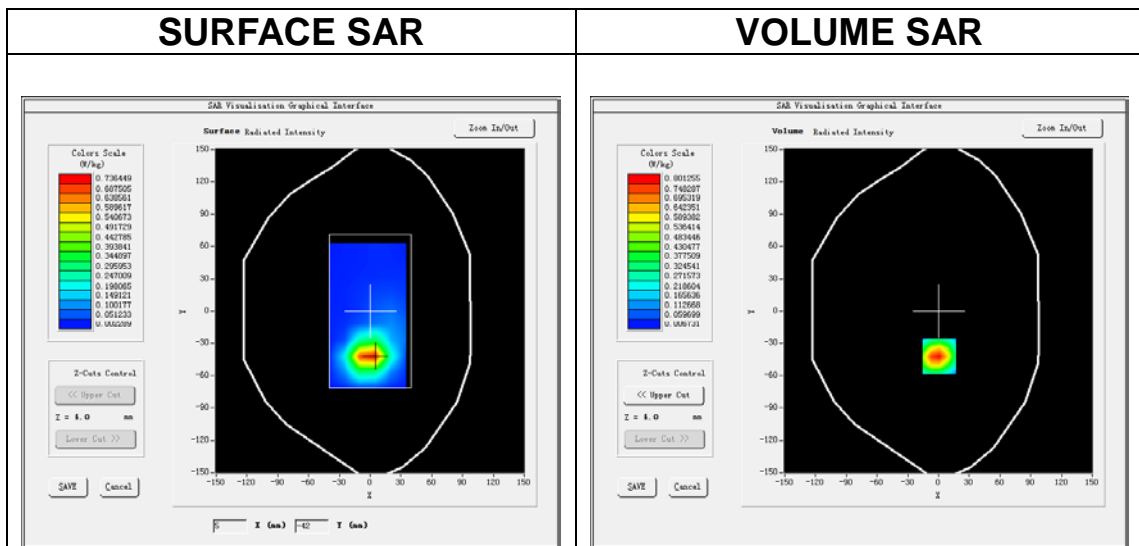
Date of measurement: 29/1/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>Band4 WCDMA1700</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.73</u>

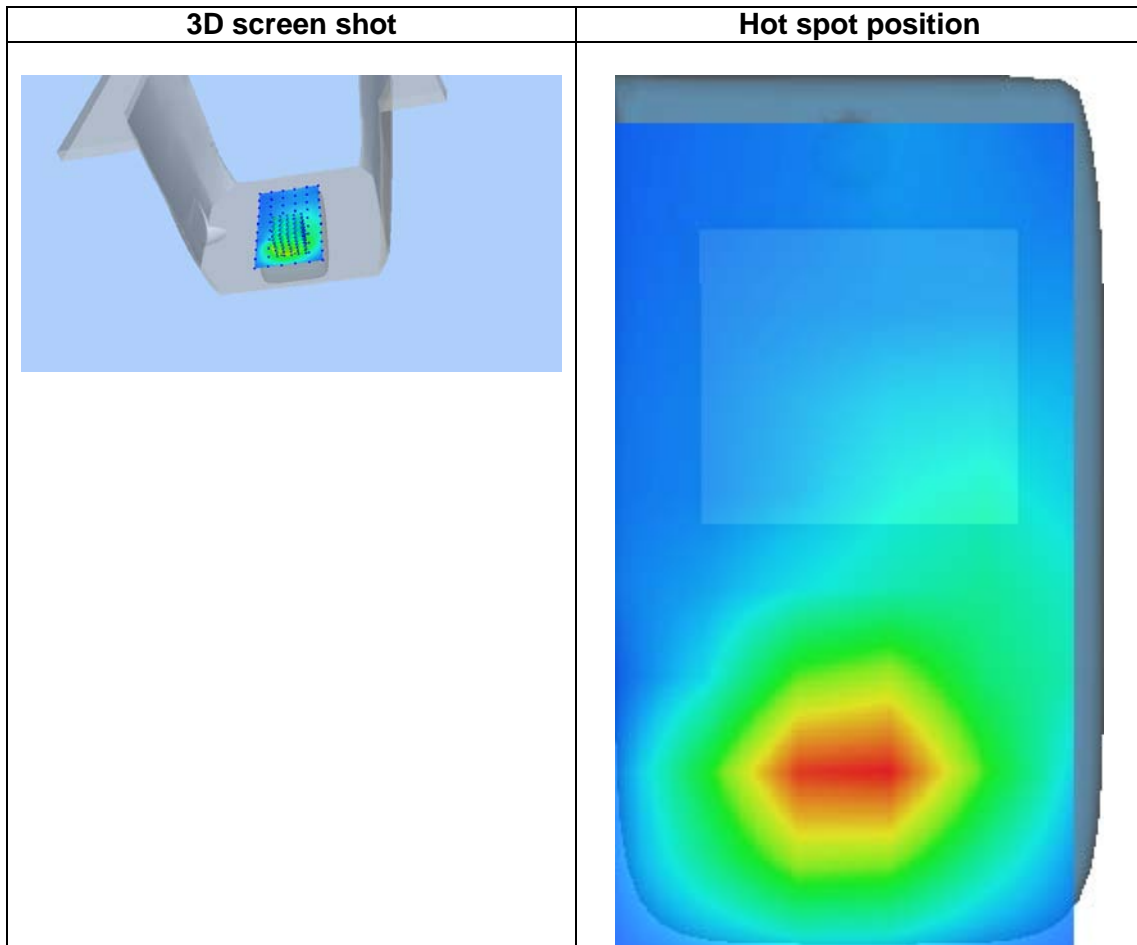
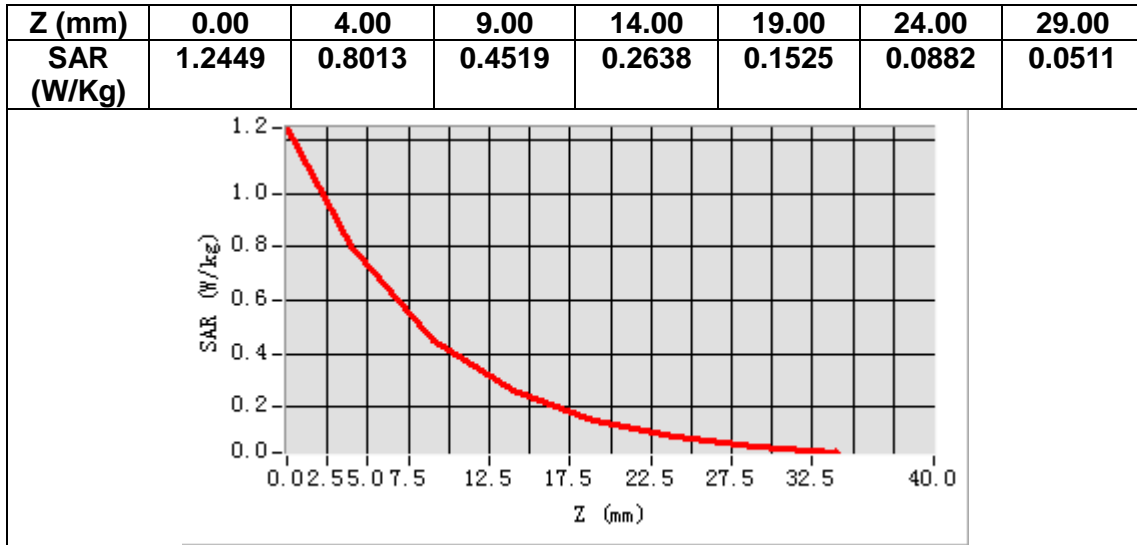
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1732.600000
<b>Relative permittivity (real part)</b>	39.716869
<b>Relative permittivity (imaginary part)</b>	13.986495
<b>Conductivity (S/m)</b>	1.345812
<b>Variation (%)</b>	-1.290000



**Maximum location: X=1.00, Y=-42.00**  
**SAR Peak: 1.25 W/kg**

<b>SAR 10g (W/Kg)</b>	0.386116
<b>SAR 1g (W/Kg)</b>	0.757185



# MEASUREMENT 9

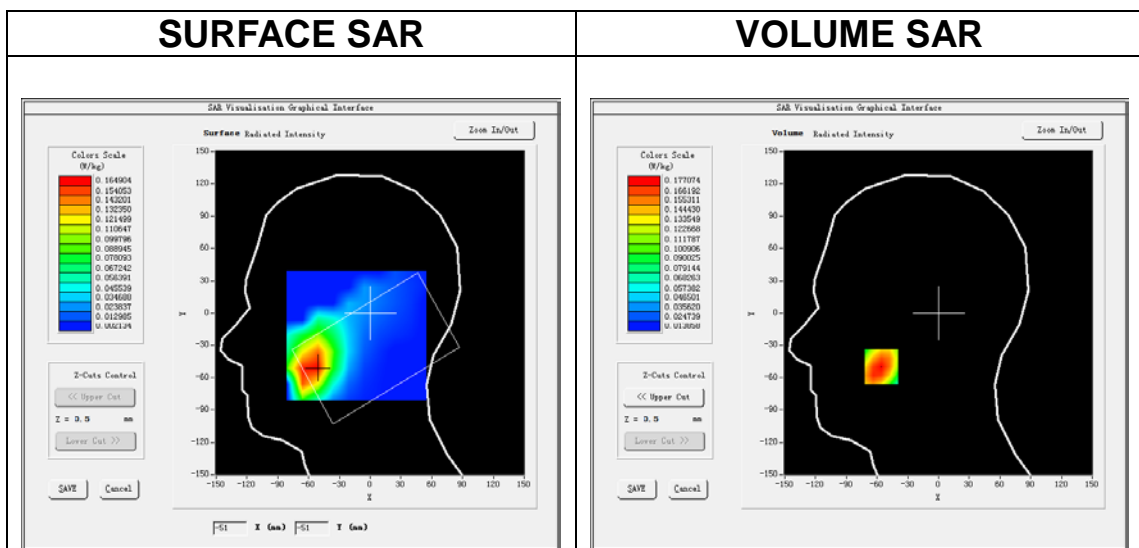
Date of measurement: 9/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>Band5_WCDMA850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.50</u>

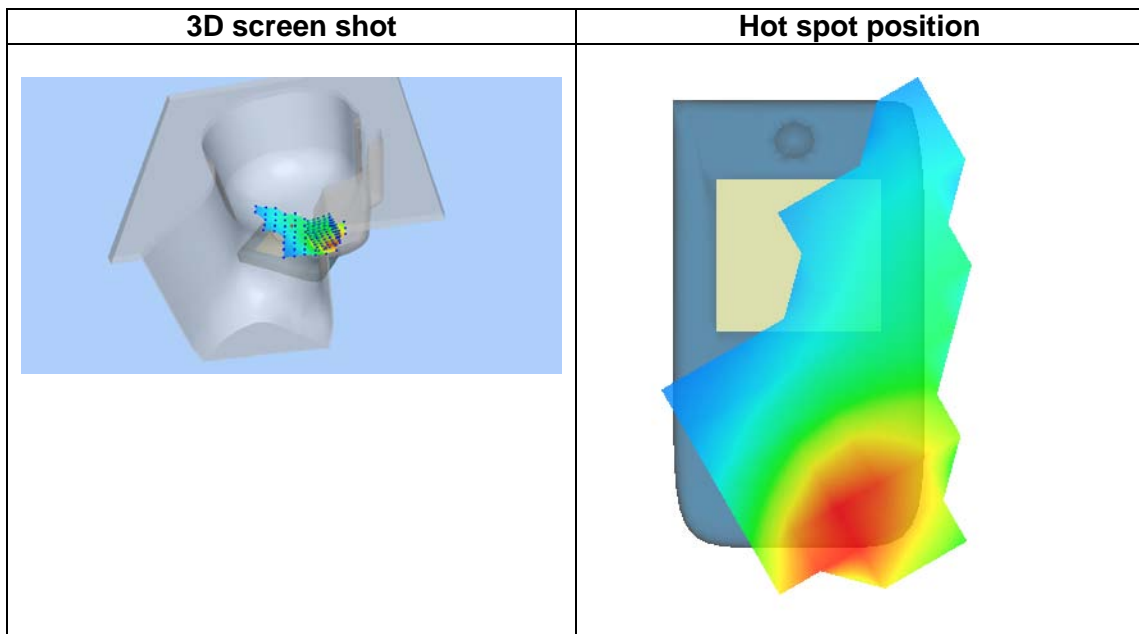
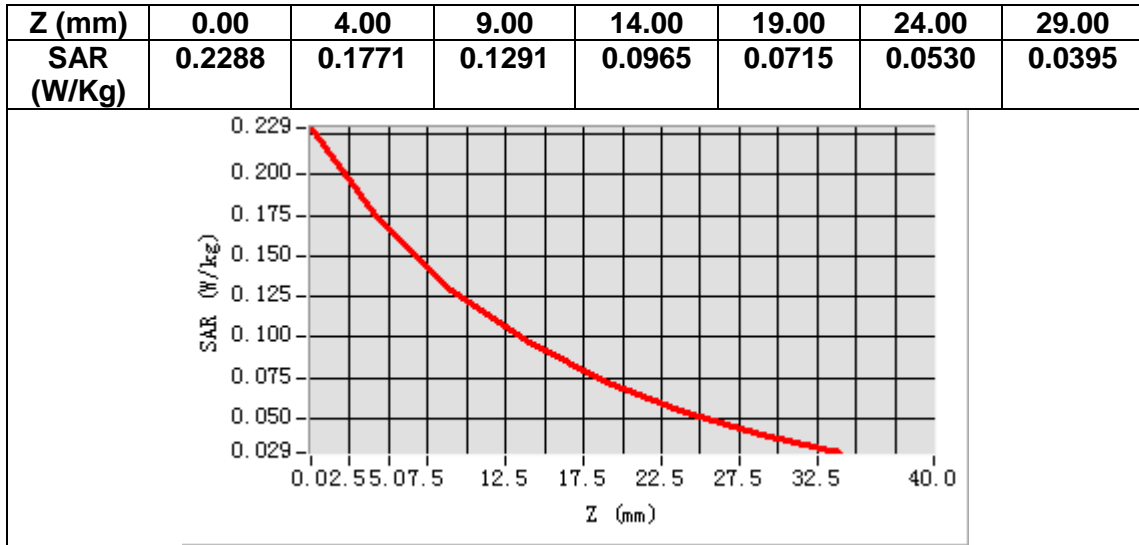
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.504276
<b>Relative permittivity (imaginary part)</b>	19.963139
<b>Conductivity (S/m)</b>	0.927621
<b>Variation (%)</b>	2.160000



**Maximum location: X=-56.00, Y=-50.00**  
**SAR Peak: 0.23 W/kg**

<b>SAR 10g (W/Kg)</b>	0.119100
<b>SAR 1g (W/Kg)</b>	0.174553



# MEASUREMENT 10

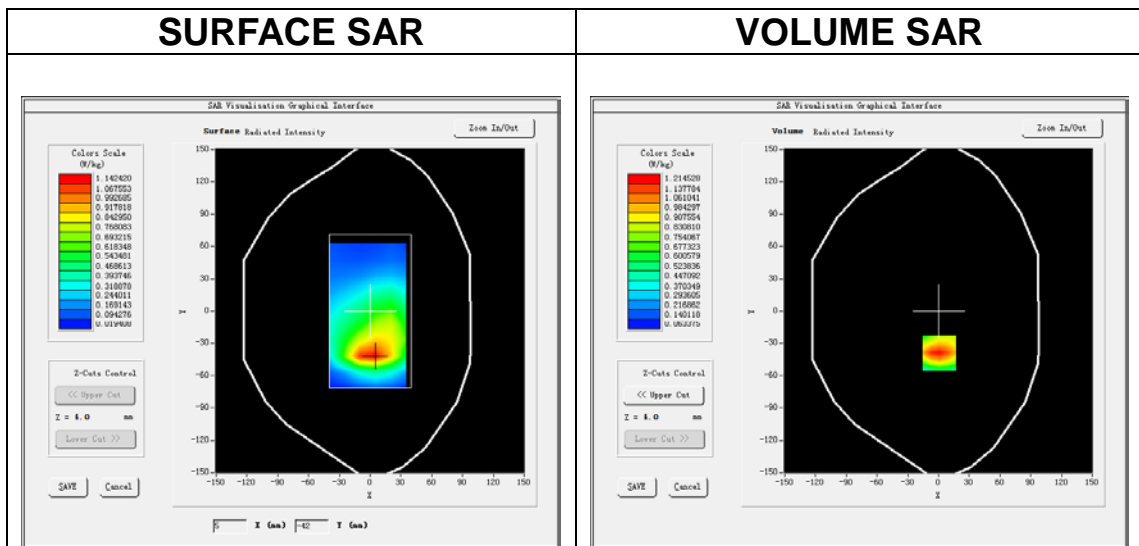
Date of measurement: 9/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>Band5_WCDMA850</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.50</u>

## B. SAR Measurement Results

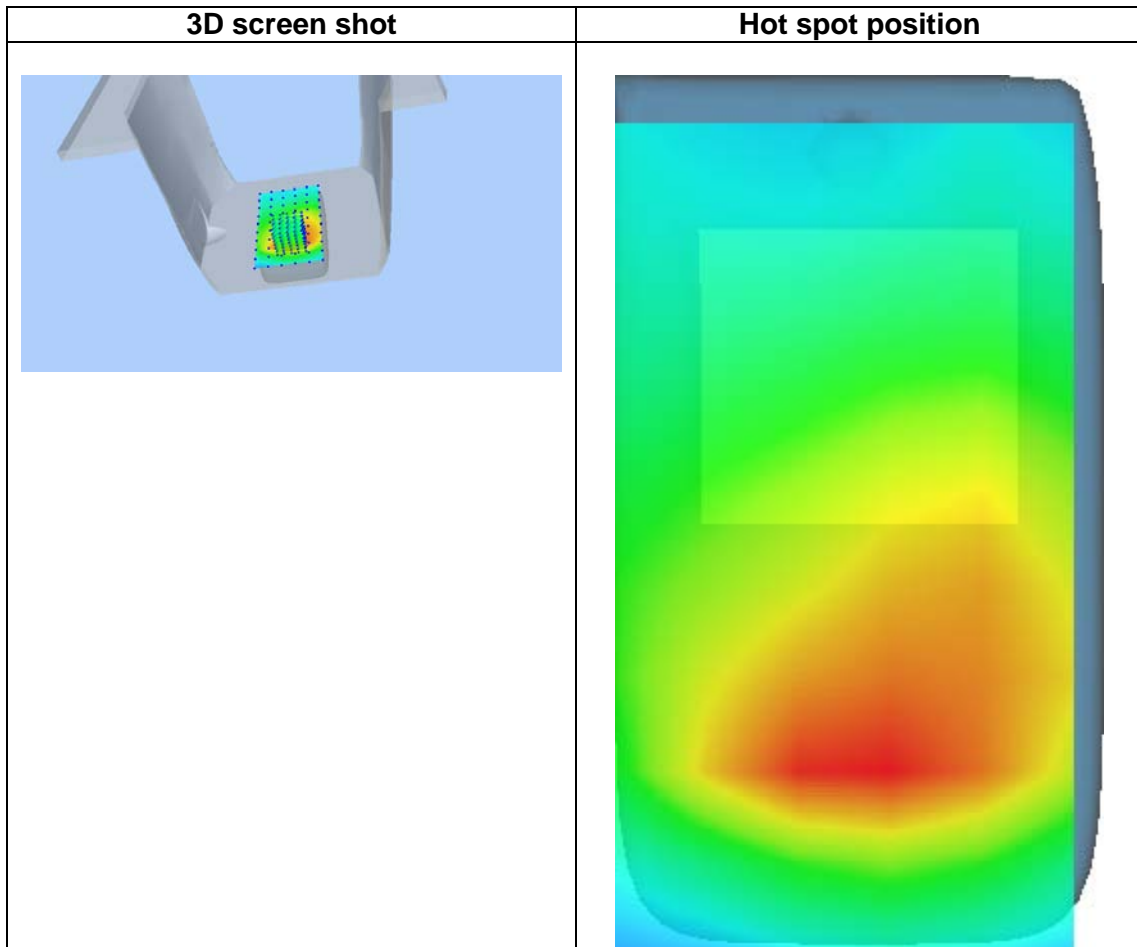
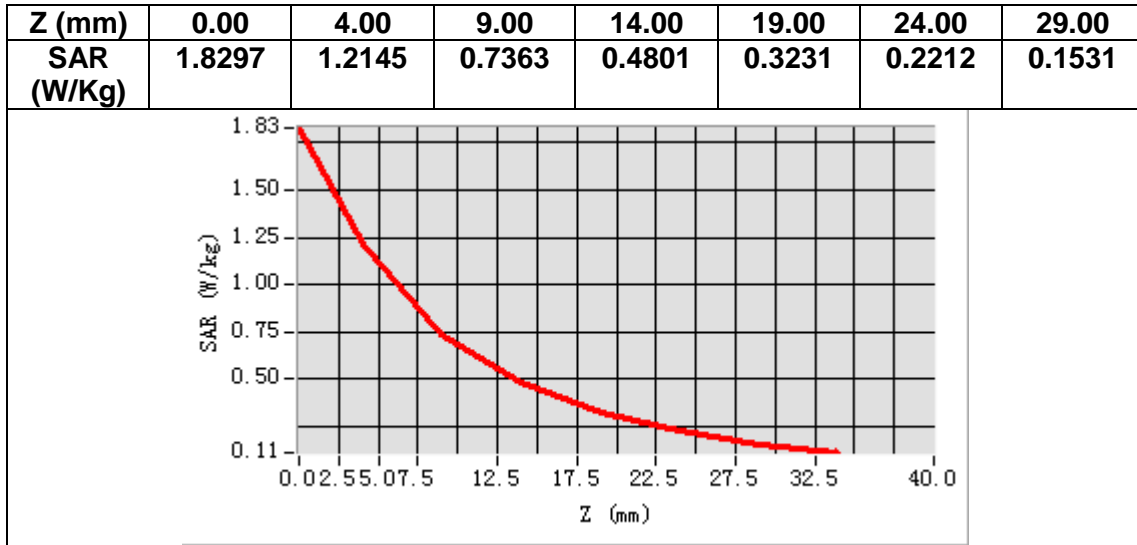
<b>Frequency (MHz)</b>	826.400000
<b>Relative permittivity (real part)</b>	41.682240
<b>Relative permittivity (imaginary part)</b>	19.960419
<b>Conductivity (S/m)</b>	0.916405
<b>Variation (%)</b>	-0.240000



**Maximum location: X=1.00, Y=-39.00**  
**SAR Peak: 1.83 W/kg**

<b>SAR 10g (W/Kg)</b>	0.691408
<b>SAR 1g (W/Kg)</b>	1.122862





# MEASUREMENT 11

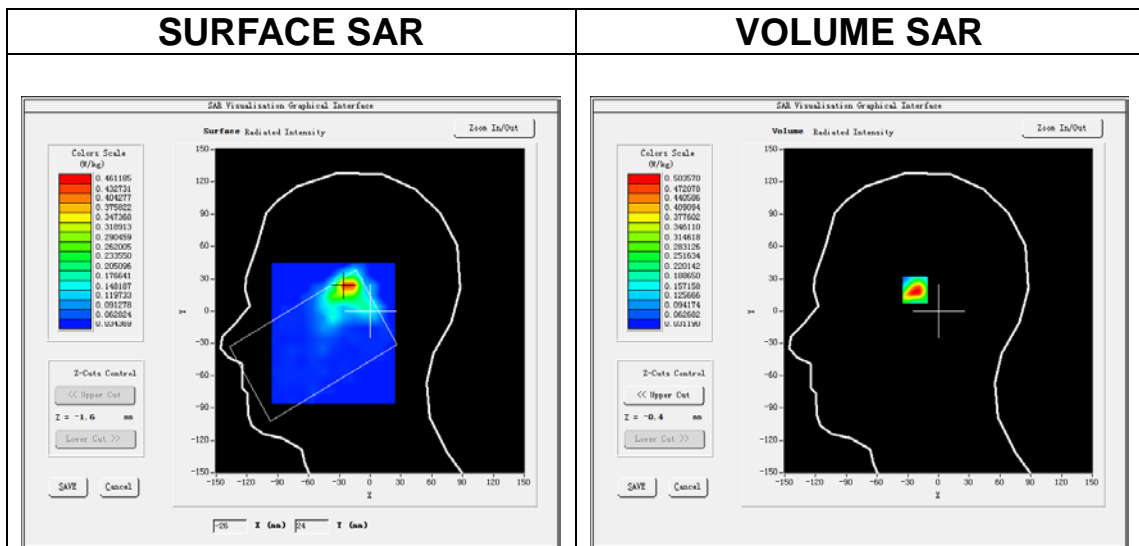
Date of measurement: 3/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>IEEE 802.11ac U-NII</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>IEEE802.11ac (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.80</u>

## B. SAR Measurement Results

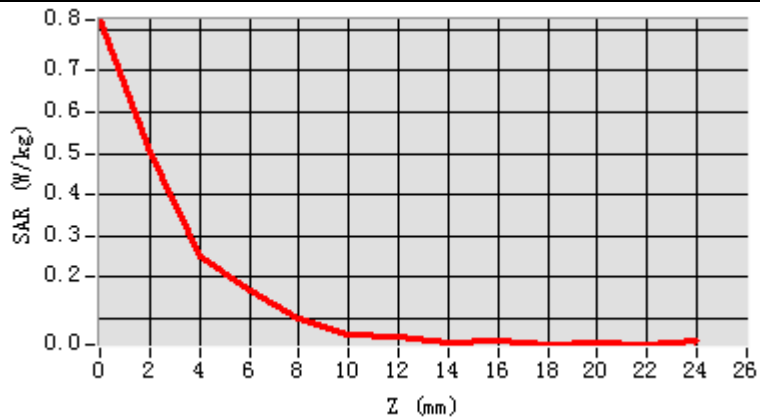
<b>Frequency (MHz)</b>	5210.000000
<b>Relative permittivity (real part)</b>	36.205151
<b>Relative permittivity (imaginary part)</b>	16.611914
<b>Conductivity (S/m)</b>	4.808226
<b>Variation (%)</b>	-3.010000

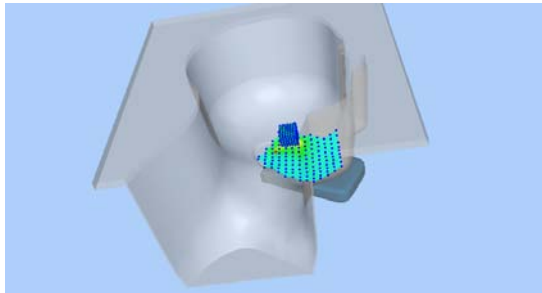
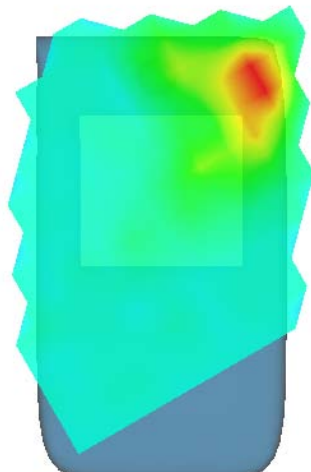


**Maximum location: X=-23.00, Y=23.00**  
**SAR Peak: 1.33 W/kg**

<b>SAR 10g (W/Kg)</b>	0.187572
<b>SAR 1g (W/Kg)</b>	0.500139

<b>Z (m m)</b>	<b>0.00</b>	<b>2.00</b>	<b>4.00</b>	<b>6.00</b>	<b>8.00</b>	<b>10.0</b>	<b>12.0</b>	<b>14.0</b>	<b>16.0</b>	<b>18.0</b>	<b>20.0</b>	<b>22.0</b>
<b>SAR (W/ Kg)</b>	<b>0.82</b>	<b>0.50</b>	<b>0.25</b>	<b>0.16</b>	<b>0.09</b>	<b>0.05</b>	<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>0.03</b>	<b>0.04</b>	<b>0.03</b>
	<b>40</b>	<b>36</b>	<b>07</b>	<b>70</b>	<b>79</b>	<b>77</b>	<b>31</b>	<b>15</b>	<b>42</b>	<b>50</b>	<b>03</b>	<b>67</b>



3D screen shot	Hot spot position
	

# MEASUREMENT 12

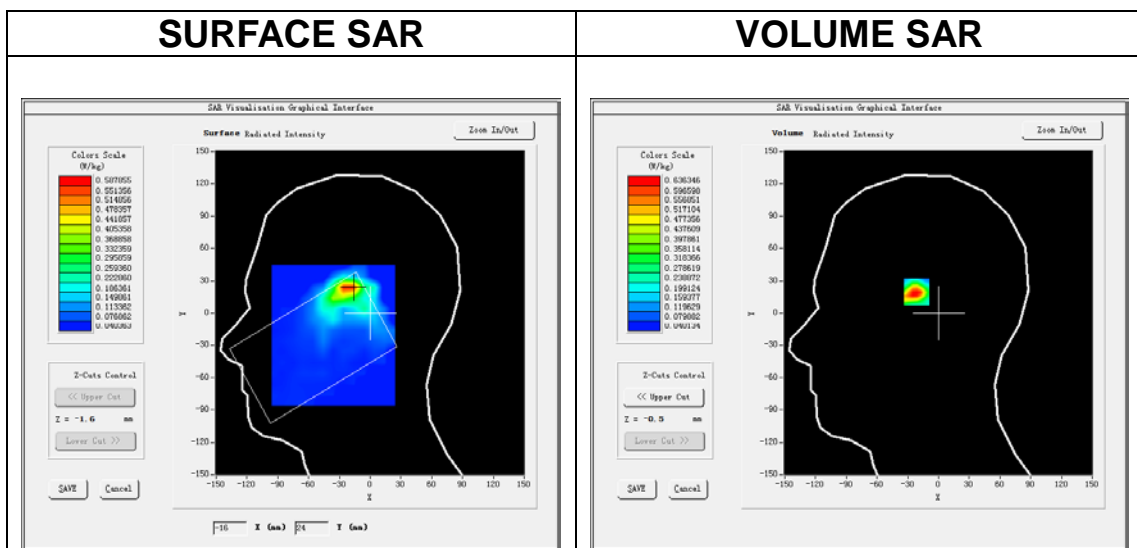
Date of measurement: 6/2/2023

## A. Experimental conditions.

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

## B. SAR Measurement Results

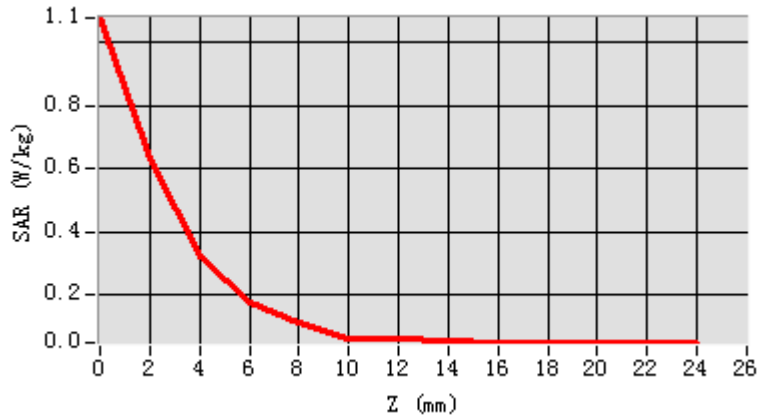
<b>Frequency (MHz)</b>	5825.000000
<b>Relative permittivity (real part)</b>	34.790074
<b>Relative permittivity (imaginary part)</b>	16.514048
<b>Conductivity (S/m)</b>	5.344129
<b>Variation (%)</b>	-2.030000

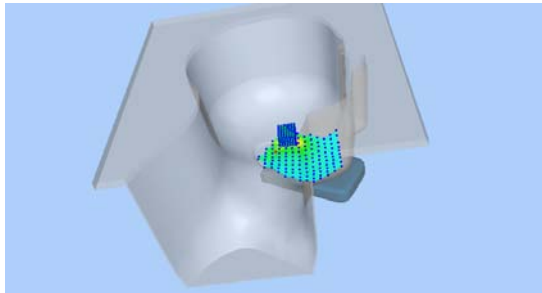
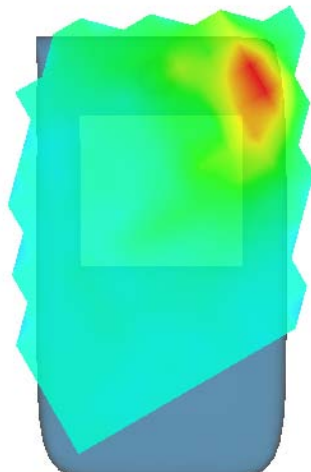


**Maximum location: X=-20.00, Y=23.00**  
**SAR Peak: 1.76 W/kg**

<b>SAR 10g (W/Kg)</b>	0.242710
<b>SAR 1g (W/Kg)</b>	0.655441

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.0788	0.6363	0.3194	0.1737	0.1089	0.0605	0.0619	0.0540	0.0487	0.0482	0.0476	0.0490



3D screen shot	Hot spot position
	

# MEASUREMENT 13

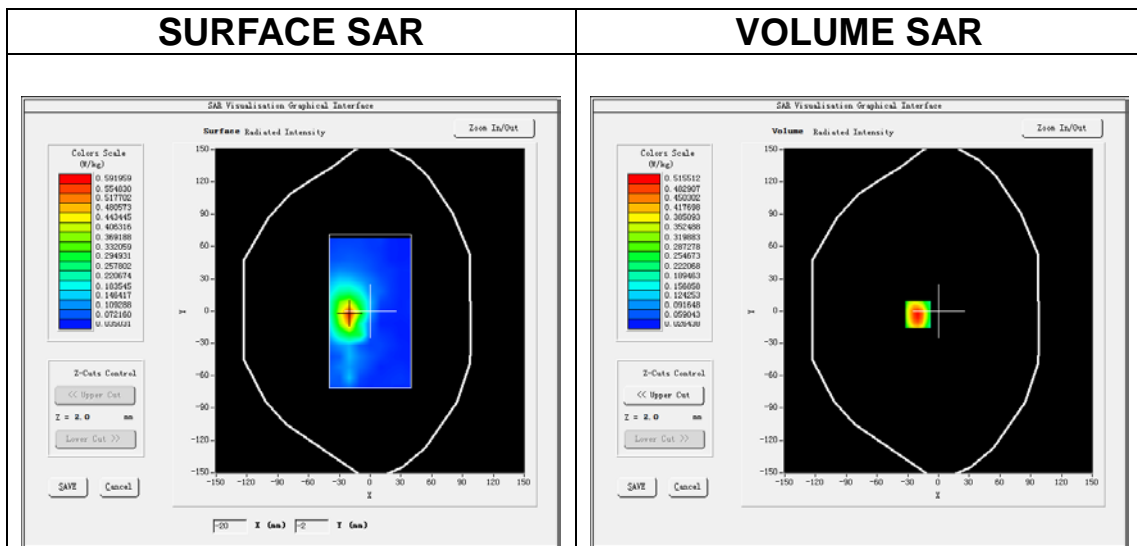
Date of measurement: 3/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>IEEE 802.11ac U-NII</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>IEEE802.11ac (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.80</u>

## B. SAR Measurement Results

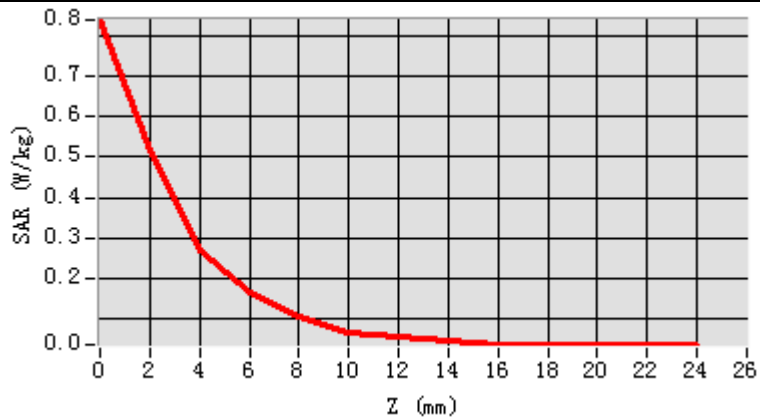
<b>Frequency (MHz)</b>	5210.000000
<b>Relative permittivity (real part)</b>	36.205151
<b>Relative permittivity (imaginary part)</b>	16.611914
<b>Conductivity (S/m)</b>	4.808226
<b>Variation (%)</b>	-1.370000



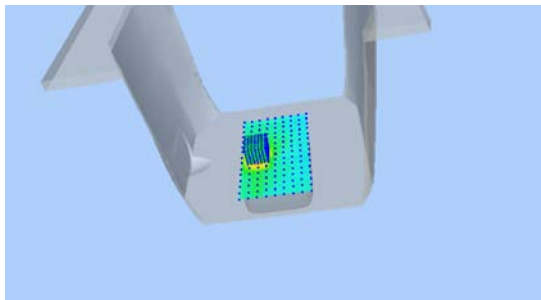
**Maximum location: X=-20.00, Y=-3.00**  
**SAR Peak: 0.88 W/kg**

<b>SAR 10g (W/Kg)</b>	0.145826
<b>SAR 1g (W/Kg)</b>	0.312485

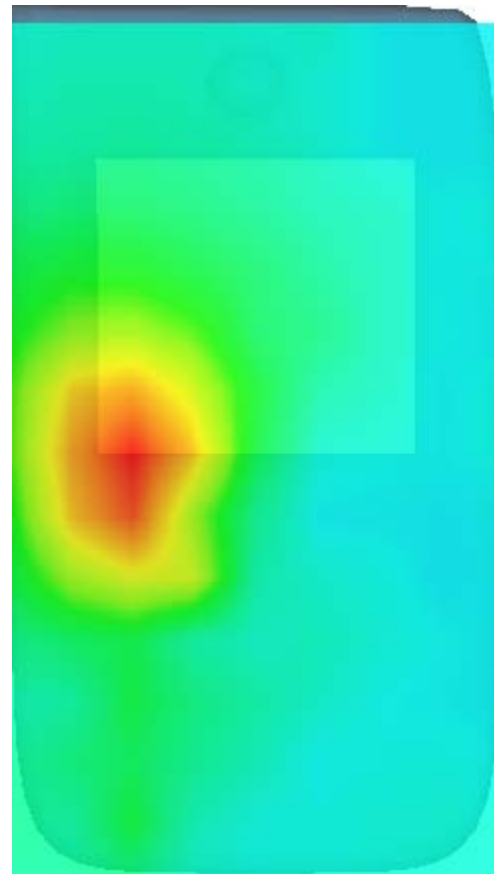
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.8391	0.5155	0.2710	0.1638	0.1040	0.0672	0.0554	0.0435	0.0354	0.0364	0.0369	0.0377



3D screen shot



Hot spot position



# MEASUREMENT 14

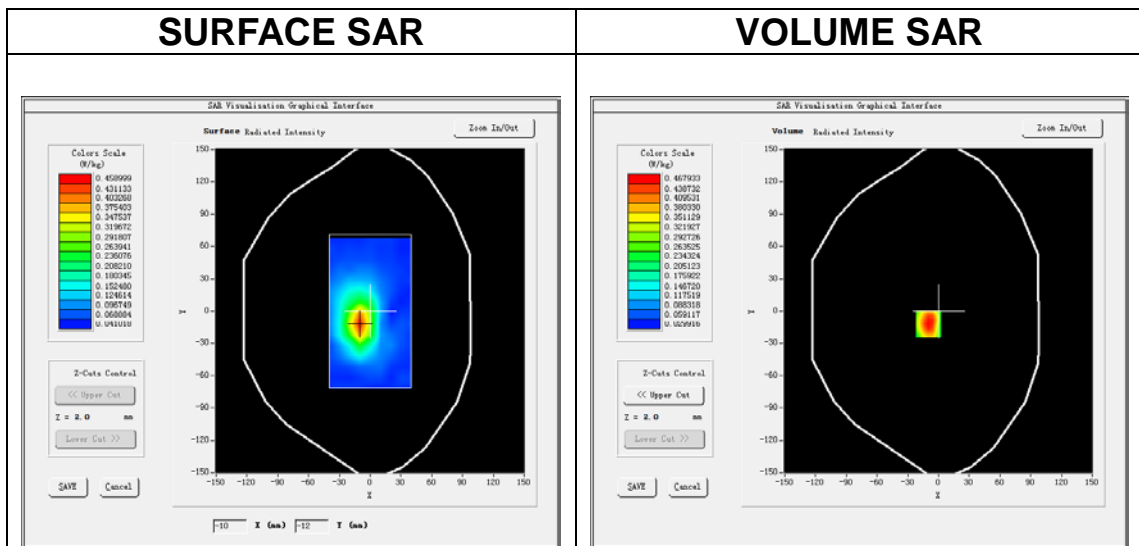
Date of measurement: 6/2/2023

## A. Experimental conditions.

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

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	5825.000000
<b>Relative permittivity (real part)</b>	34.790074
<b>Relative permittivity (imaginary part)</b>	16.514048
<b>Conductivity (S/m)</b>	5.344129
<b>Variation (%)</b>	-0.170000

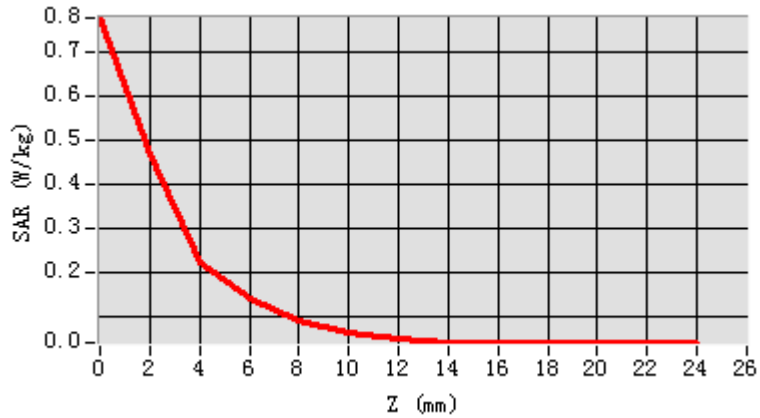


**Maximum location: X=-10.00, Y=-12.00**  
**SAR Peak: 0.82 W/kg**

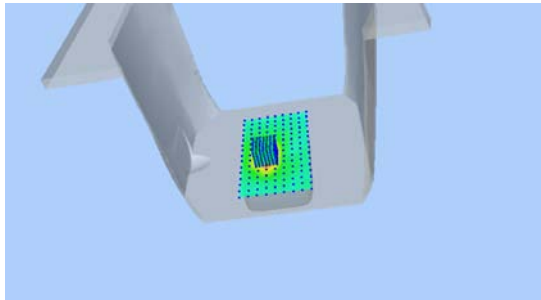
<b>SAR 10g (W/Kg)</b>	0.138910
<b>SAR 1g (W/Kg)</b>	0.285838



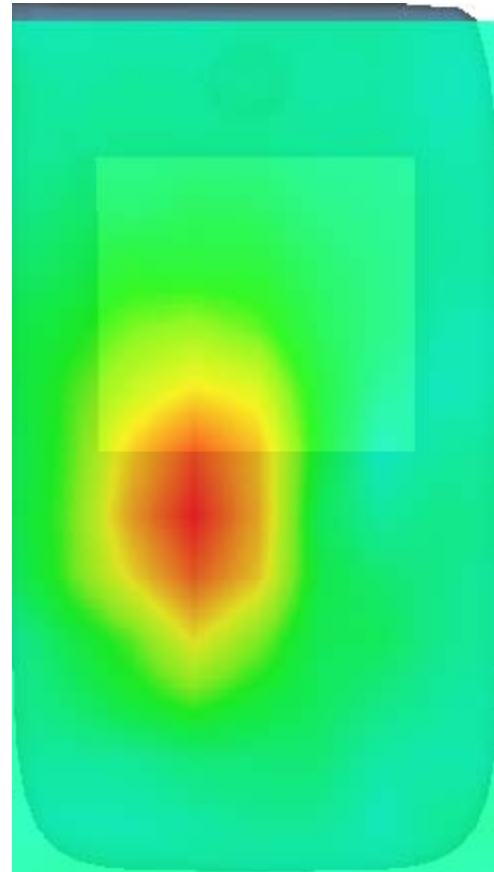
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.7765	0.4679	0.2232	0.1383	0.0907	0.0625	0.0464	0.0398	0.0402	0.0411	0.0394	0.0411



3D screen shot



Hot spot position



# MEASUREMENT 15

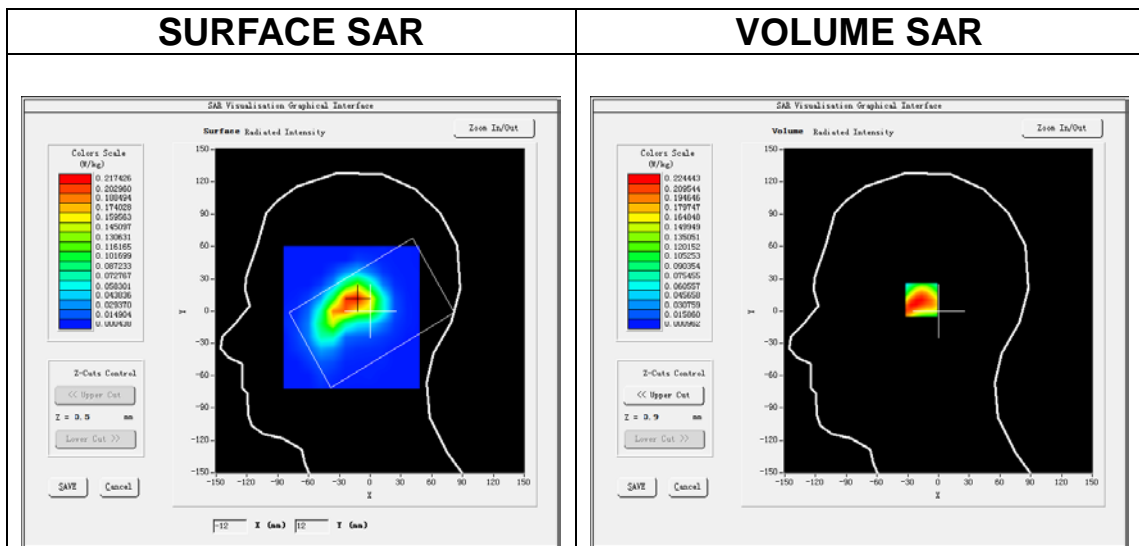
Date of measurement: 1/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>IEEE 802.11b ISM</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.98</u>

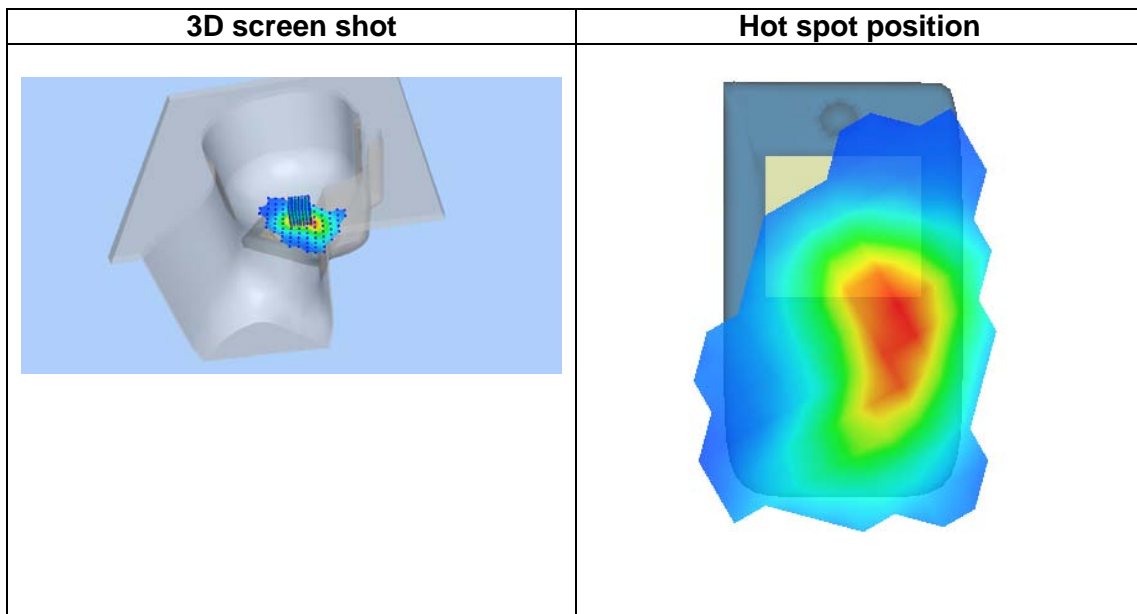
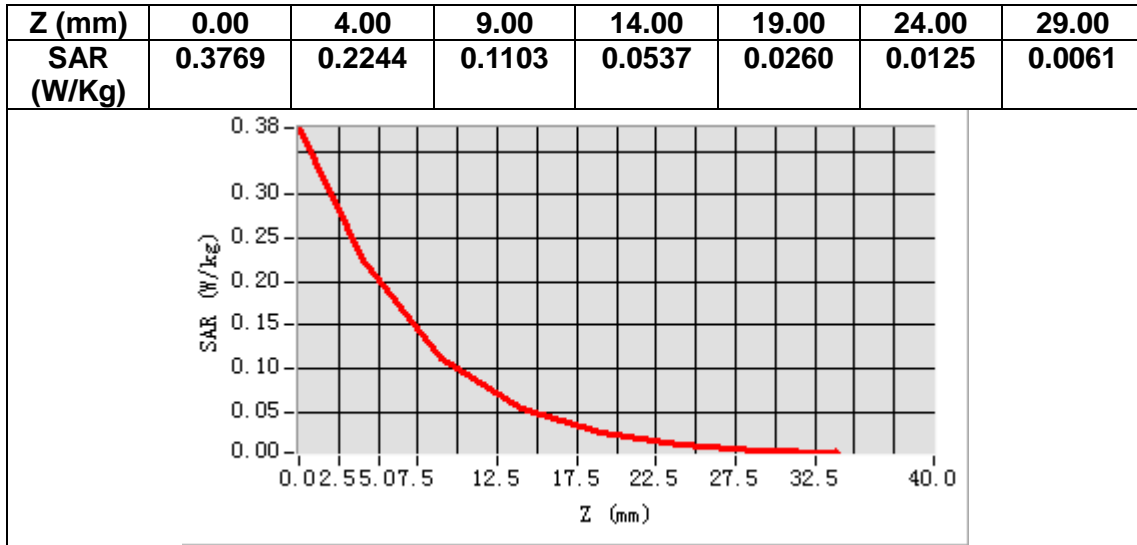
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	38.387638
<b>Relative permittivity (imaginary part)</b>	13.001827
<b>Conductivity (S/m)</b>	1.760303
<b>Variation (%)</b>	0.690000



**Maximum location: X=-15.00, Y=11.00**  
**SAR Peak: 0.38 W/kg**

<b>SAR 10g (W/Kg)</b>	0.107914
<b>SAR 1g (W/Kg)</b>	0.214160



# MEASUREMENT 16

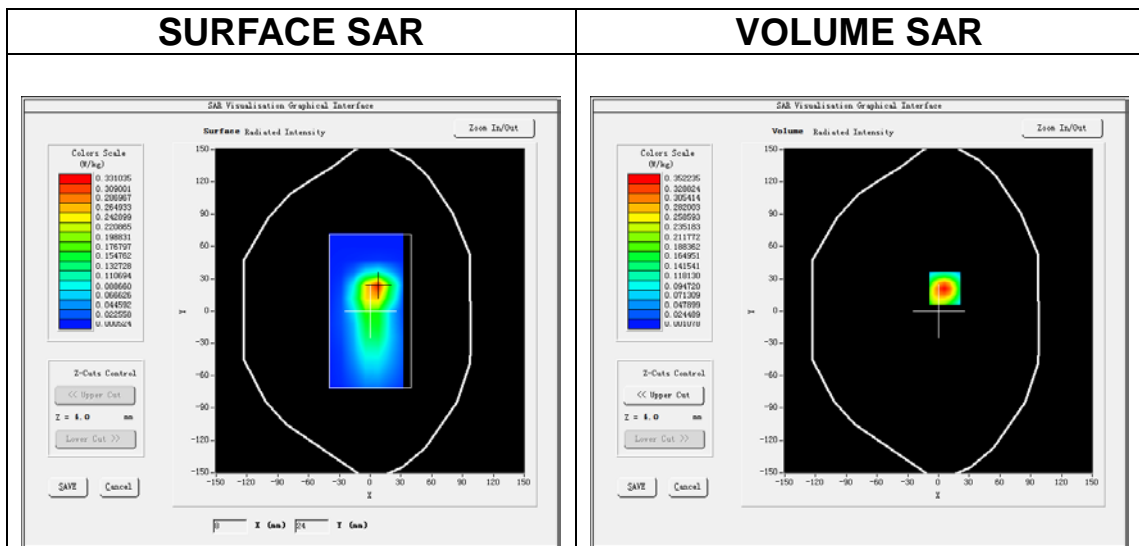
Date of measurement: 1/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>IEEE 802.11b ISM</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.98</u>

## B. SAR Measurement Results

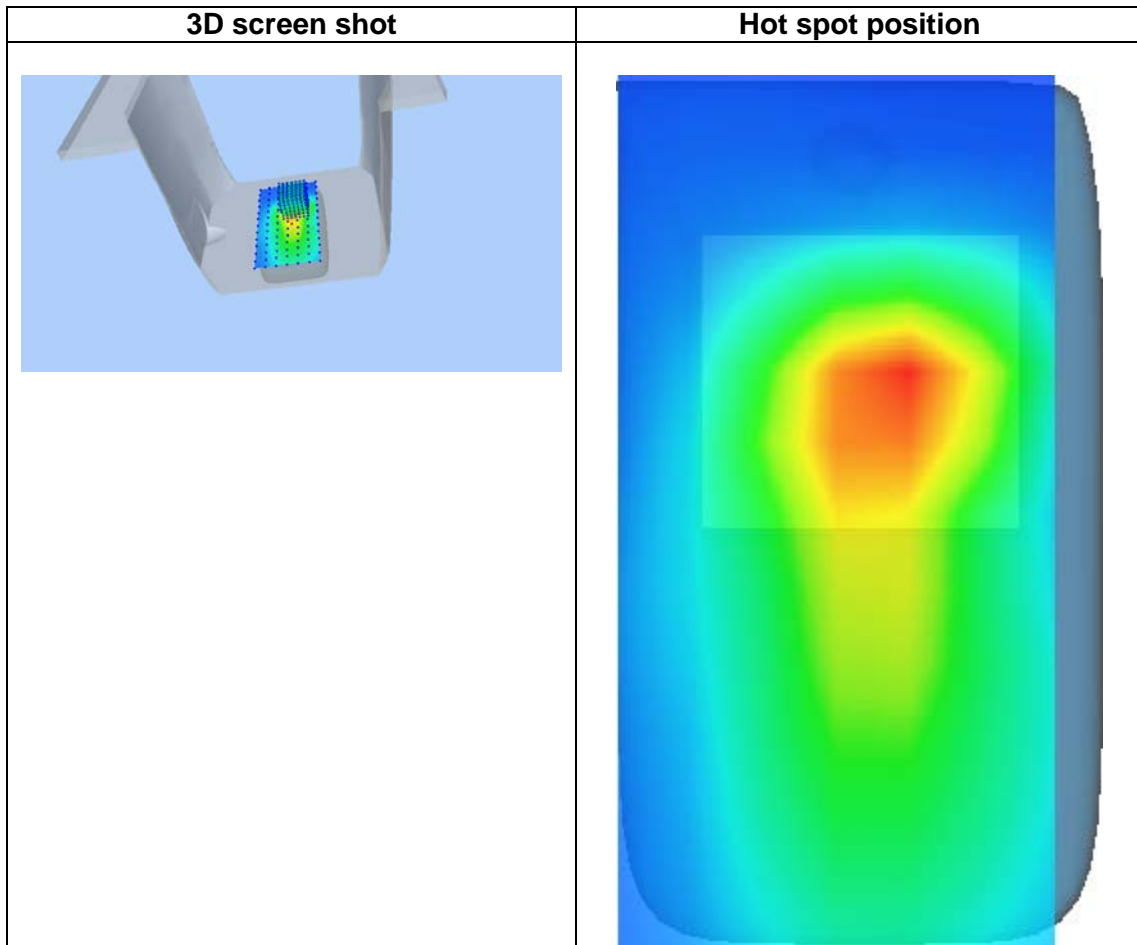
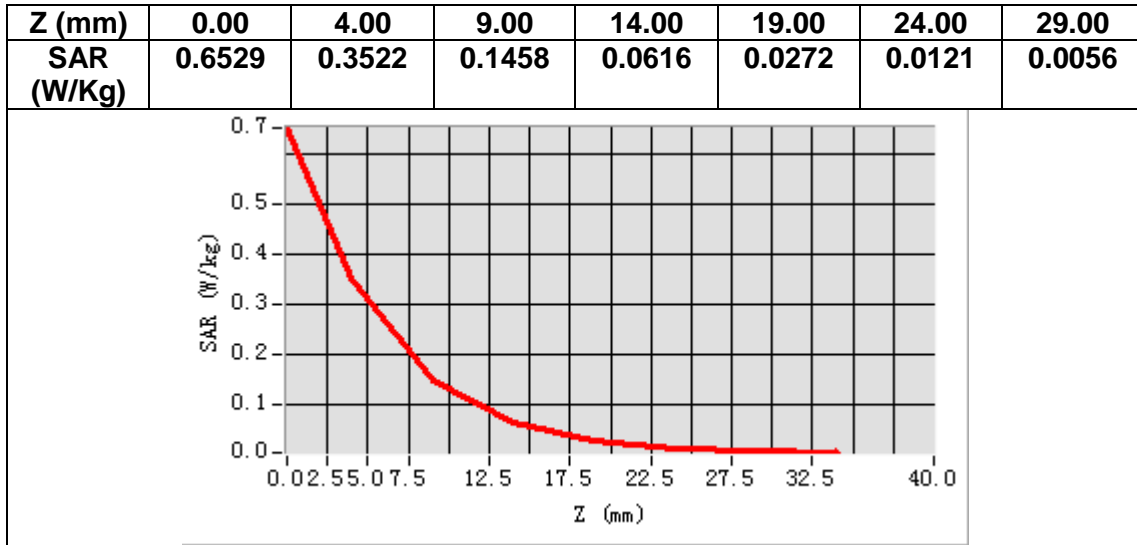
<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	38.387638
<b>Relative permittivity (imaginary part)</b>	13.001827
<b>Conductivity (S/m)</b>	1.760303
<b>Variation (%)</b>	0.340000



**Maximum location: X=6.00, Y=21.00**

**SAR Peak: 0.64 W/kg**

<b>SAR 10g (W/Kg)</b>	0.145863
<b>SAR 1g (W/Kg)</b>	0.325828



# MEASUREMENT 17

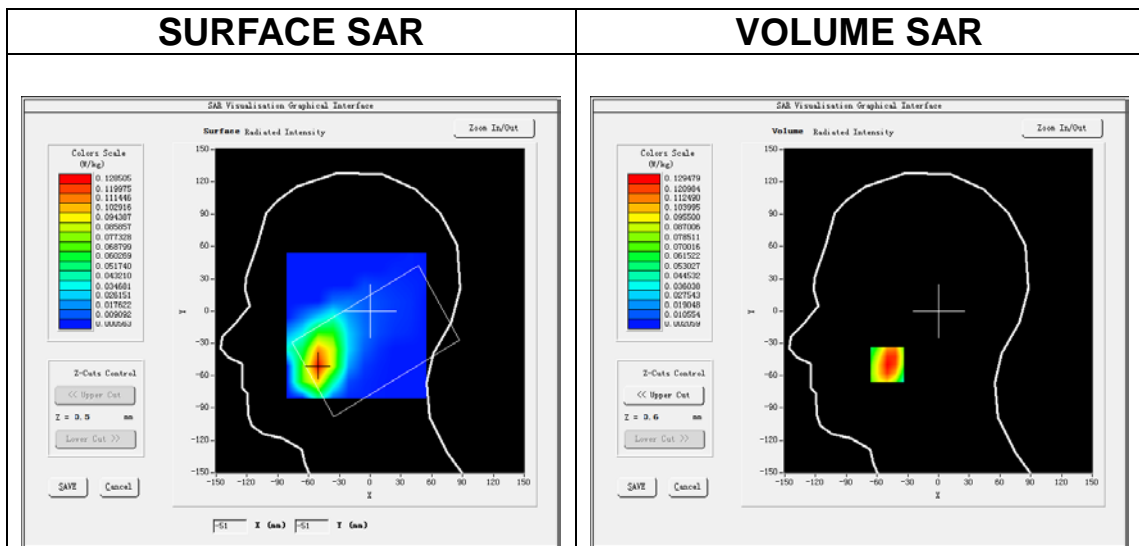
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 2</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.91</u>

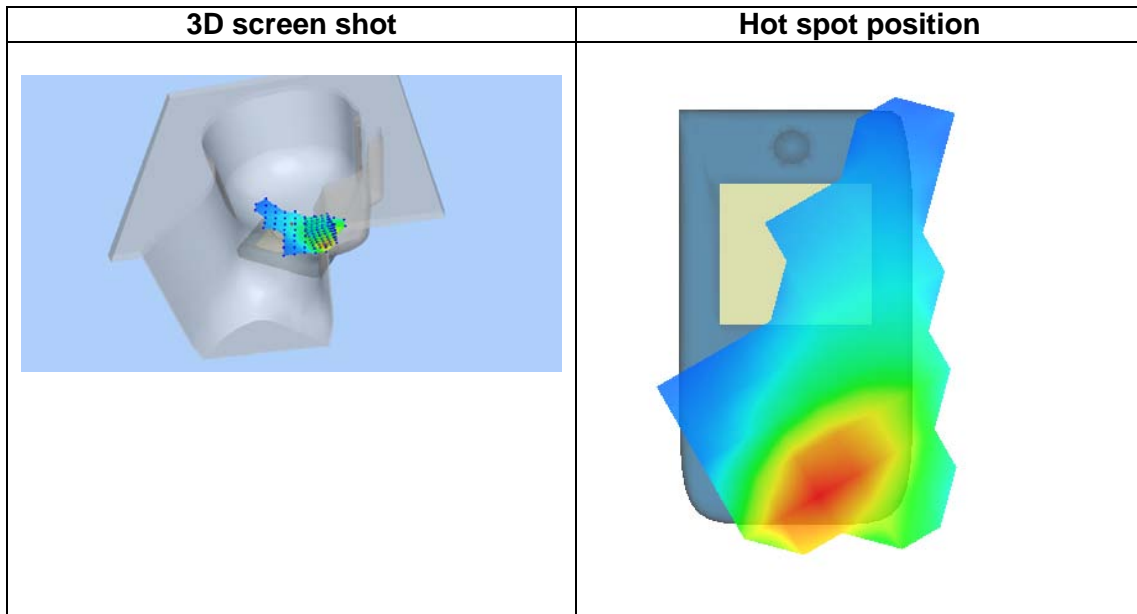
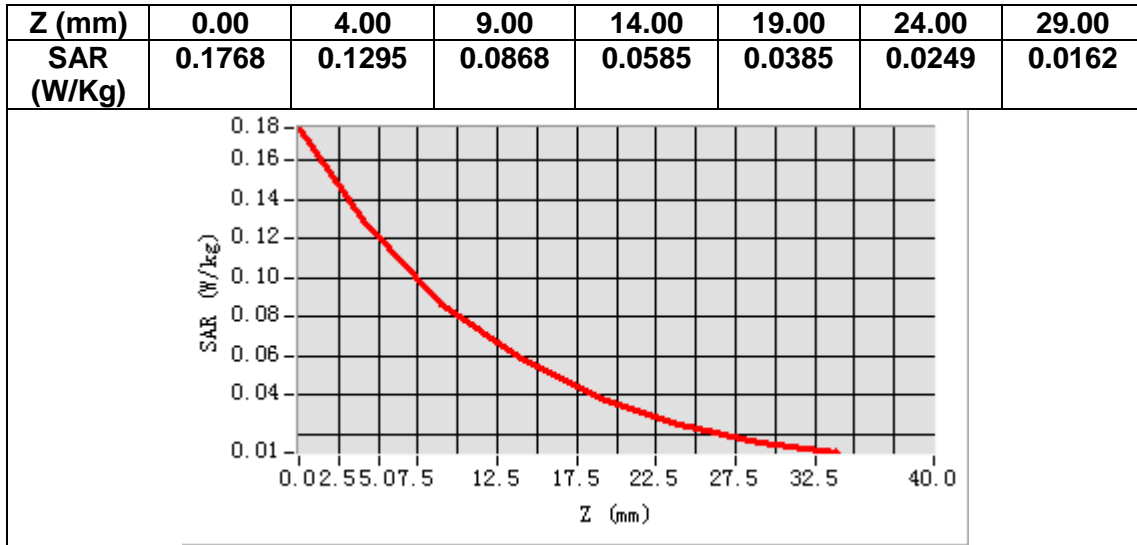
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.088131
<b>Relative permittivity (imaginary part)</b>	13.686302
<b>Conductivity (S/m)</b>	1.429078
<b>Variation (%)</b>	-1.520000



**Maximum location: X=-50.00, Y=-50.00**  
**SAR Peak: 0.19 W/kg**

<b>SAR 10g (W/Kg)</b>	0.075843
<b>SAR 1g (W/Kg)</b>	0.127129



# MEASUREMENT 18

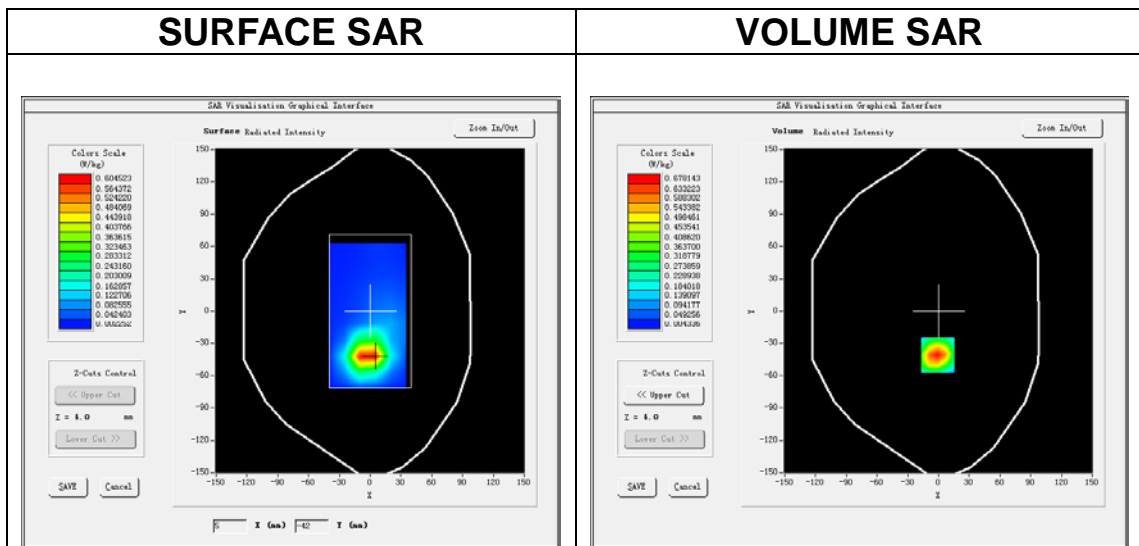
Date of measurement: 10/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 2</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.91</u>

## B. SAR Measurement Results

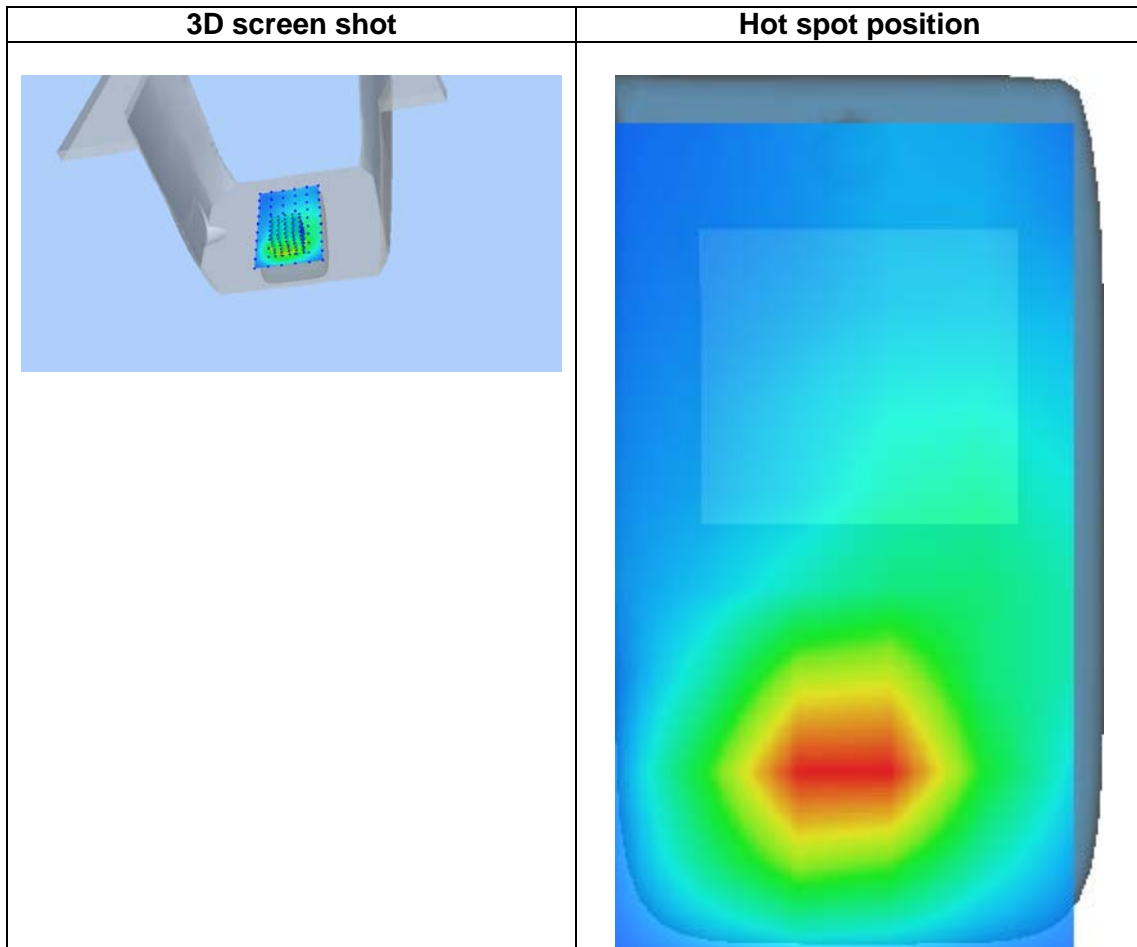
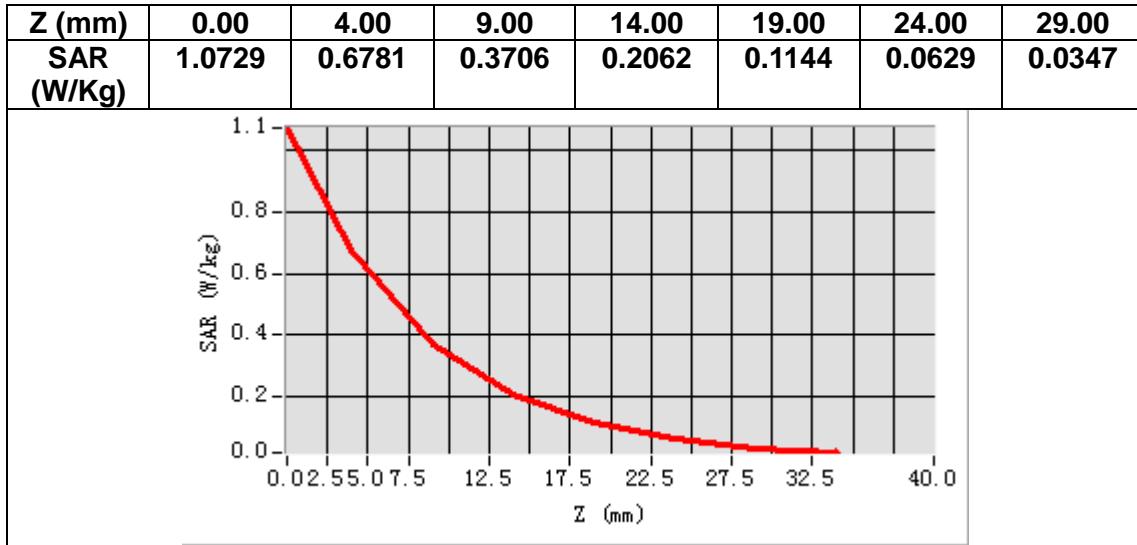
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.088131
<b>Relative permittivity (imaginary part)</b>	13.686302
<b>Conductivity (S/m)</b>	1.429078
<b>Variation (%)</b>	-1.690000



**Maximum location: X=-1.00, Y=-41.00**  
**SAR Peak: 1.07 W/kg**

<b>SAR 10g (W/Kg)</b>	0.325886
<b>SAR 1g (W/Kg)</b>	0.650701





# MEASUREMENT 19

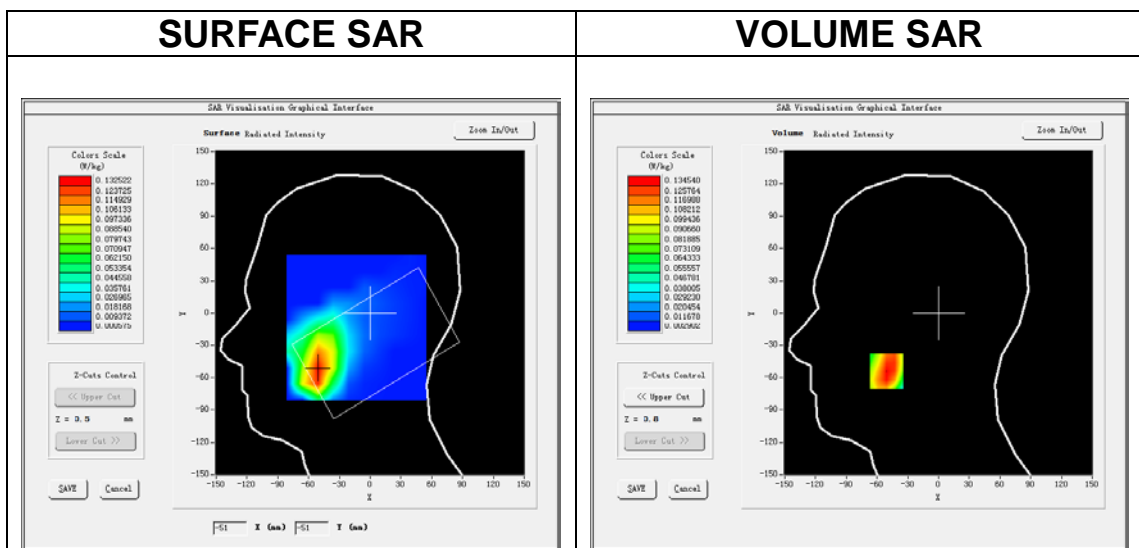
Date of measurement: 29/1/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 4</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.73</u>

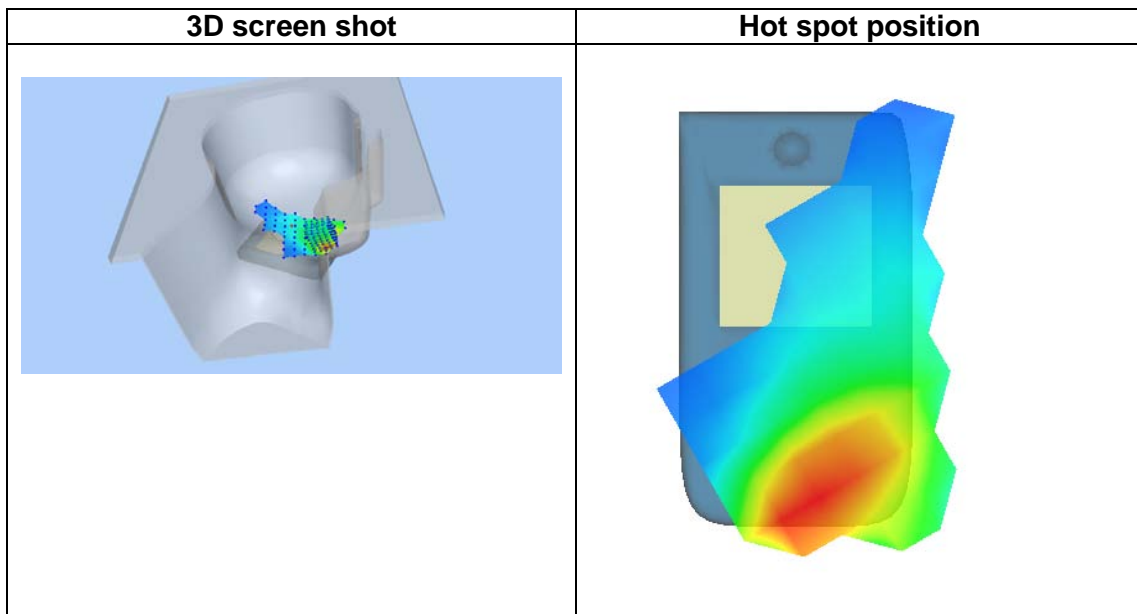
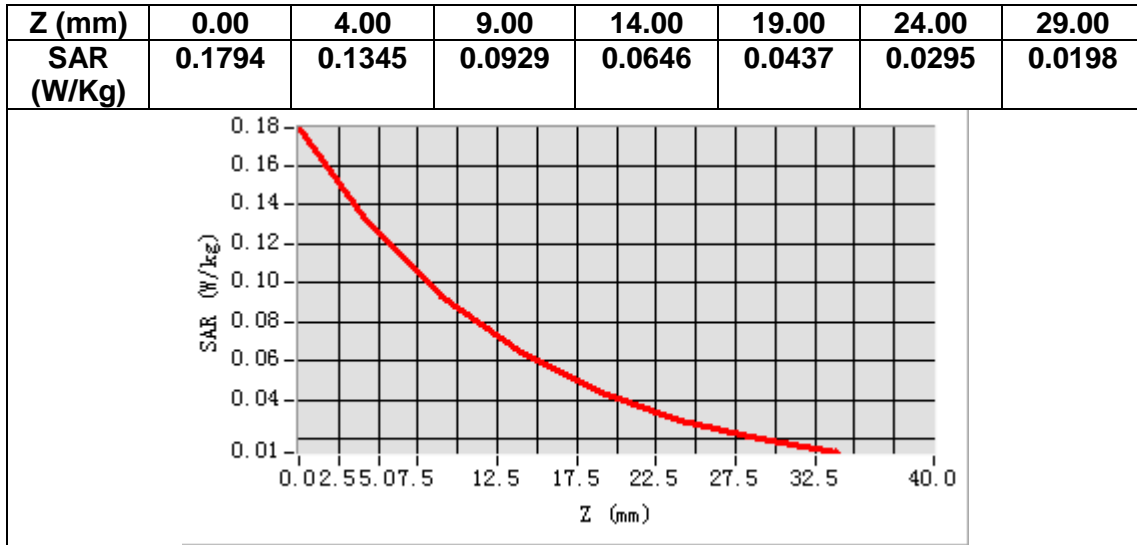
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	39.724770
<b>Relative permittivity (imaginary part)</b>	13.971345
<b>Conductivity (S/m)</b>	1.344742
<b>Variation (%)</b>	-1.110000



**Maximum location: X=-51.00, Y=-54.00**  
**SAR Peak: 0.19 W/kg**

<b>SAR 10g (W/Kg)</b>	0.081201
<b>SAR 1g (W/Kg)</b>	0.130058



# MEASUREMENT 20

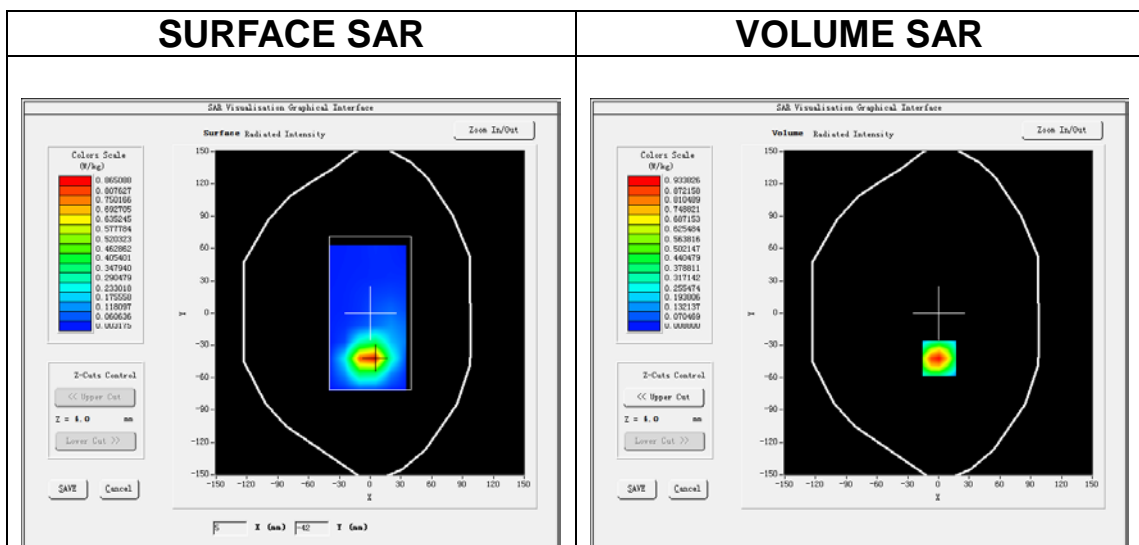
Date of measurement: 29/1/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 4</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.73</u>

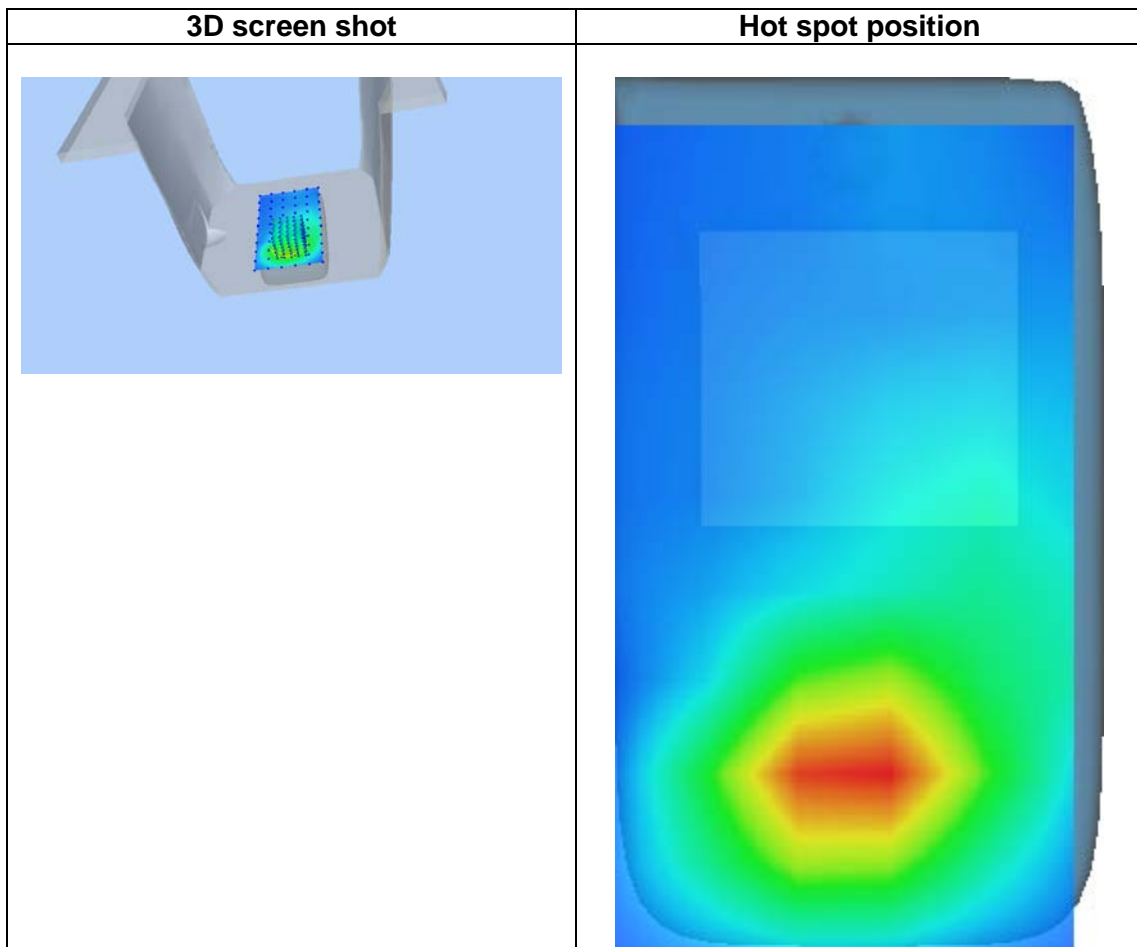
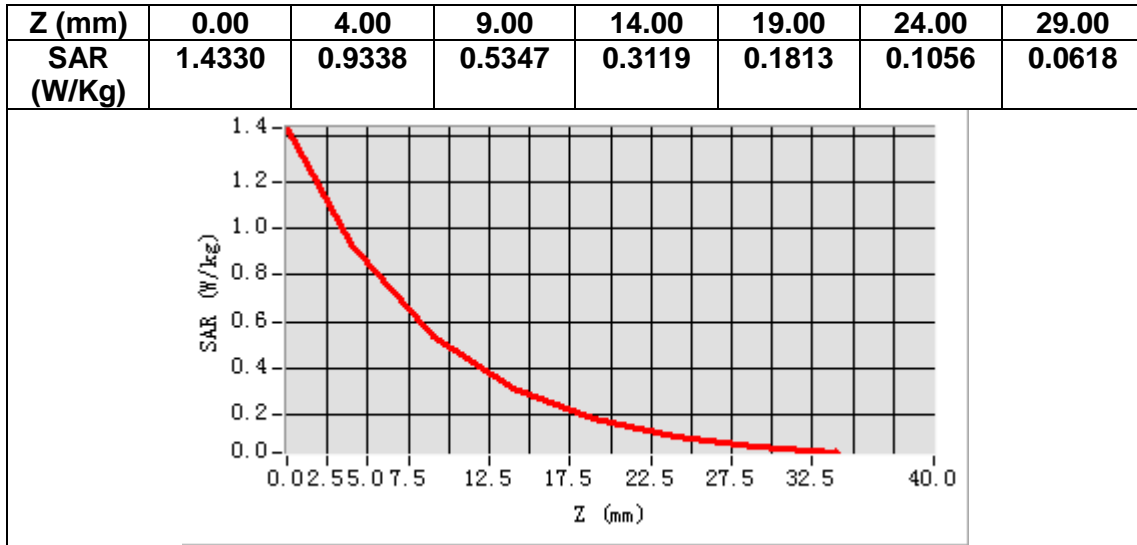
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1720.000000
<b>Relative permittivity (real part)</b>	39.857468
<b>Relative permittivity (imaginary part)</b>	13.929695
<b>Conductivity (S/m)</b>	1.330673
<b>Variation (%)</b>	-0.900000



**Maximum location: X=1.00, Y=-42.00**  
**SAR Peak: 1.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.451865
<b>SAR 1g (W/Kg)</b>	0.882425



# MEASUREMENT 21

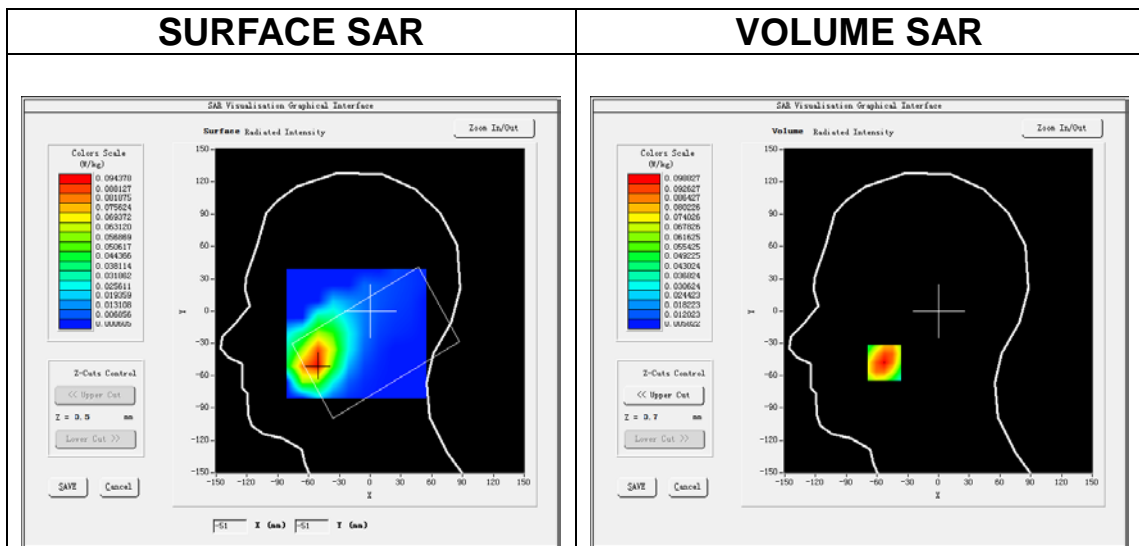
Date of measurement: 9/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 5</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.50</u>

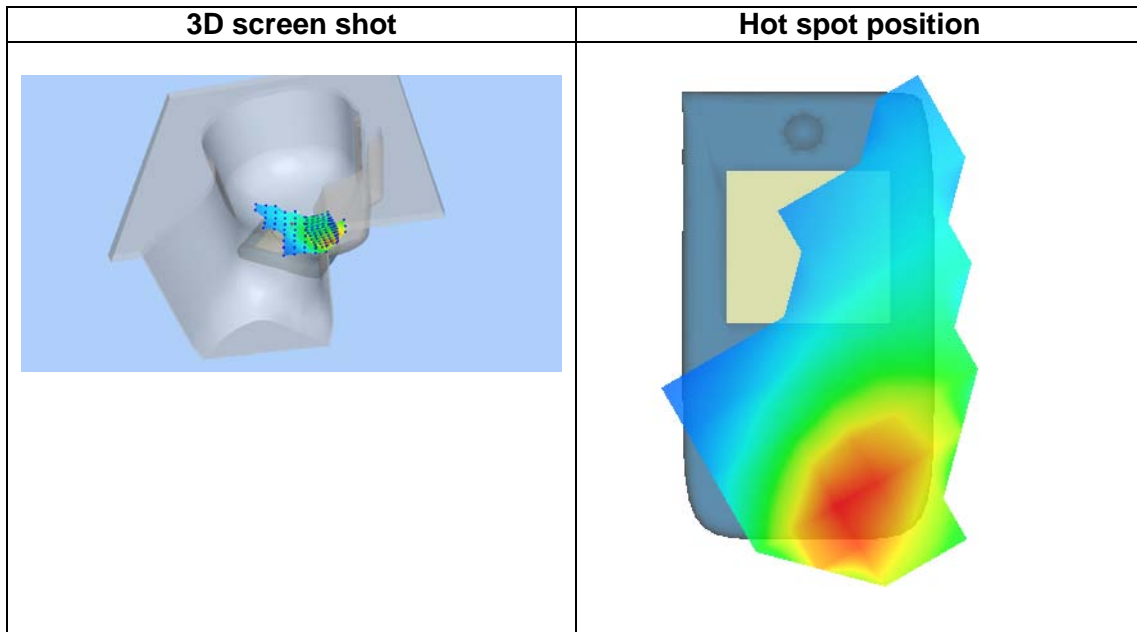
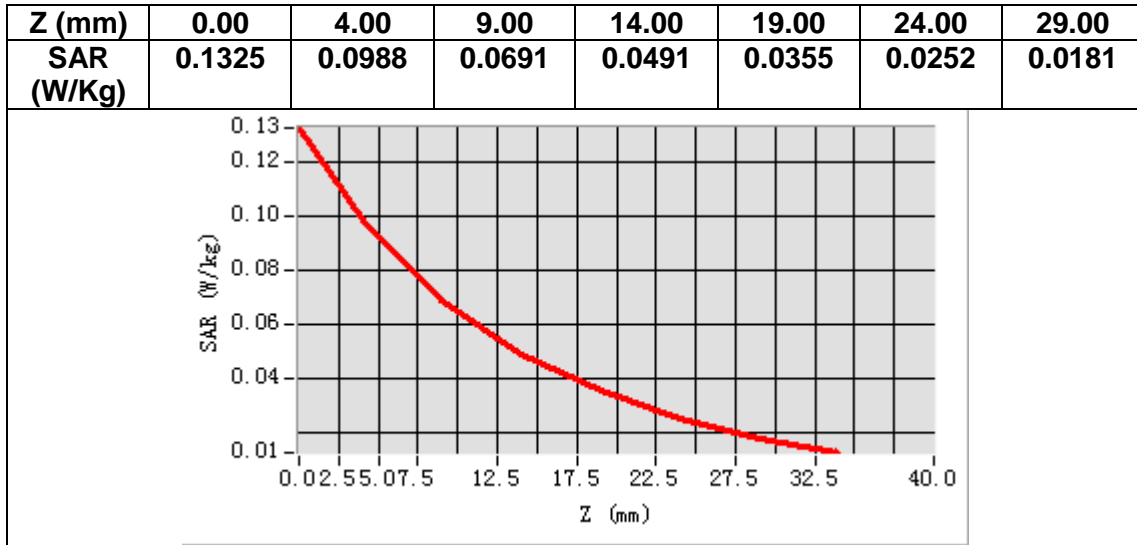
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.500000
<b>Relative permittivity (real part)</b>	41.506866
<b>Relative permittivity (imaginary part)</b>	19.961800
<b>Conductivity (S/m)</b>	0.927669
<b>Variation (%)</b>	-0.820000



**Maximum location: X=-53.00, Y=-48.00**  
**SAR Peak: 0.13 W/kg**

<b>SAR 10g (W/Kg)</b>	0.062959
<b>SAR 1g (W/Kg)</b>	0.096373



# MEASUREMENT 22

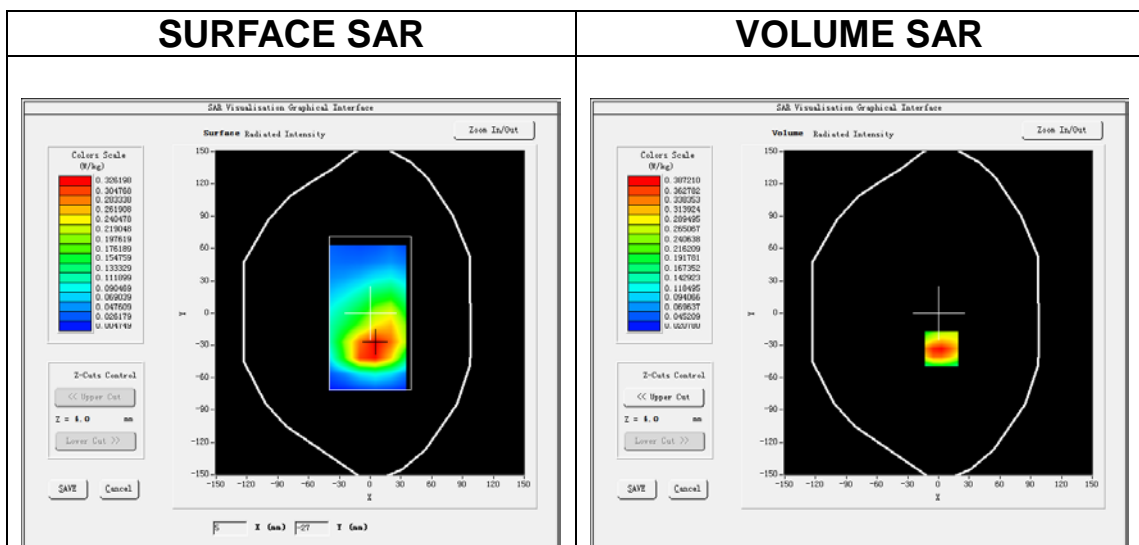
Date of measurement: 9/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 5</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.50</u>

## B. SAR Measurement Results

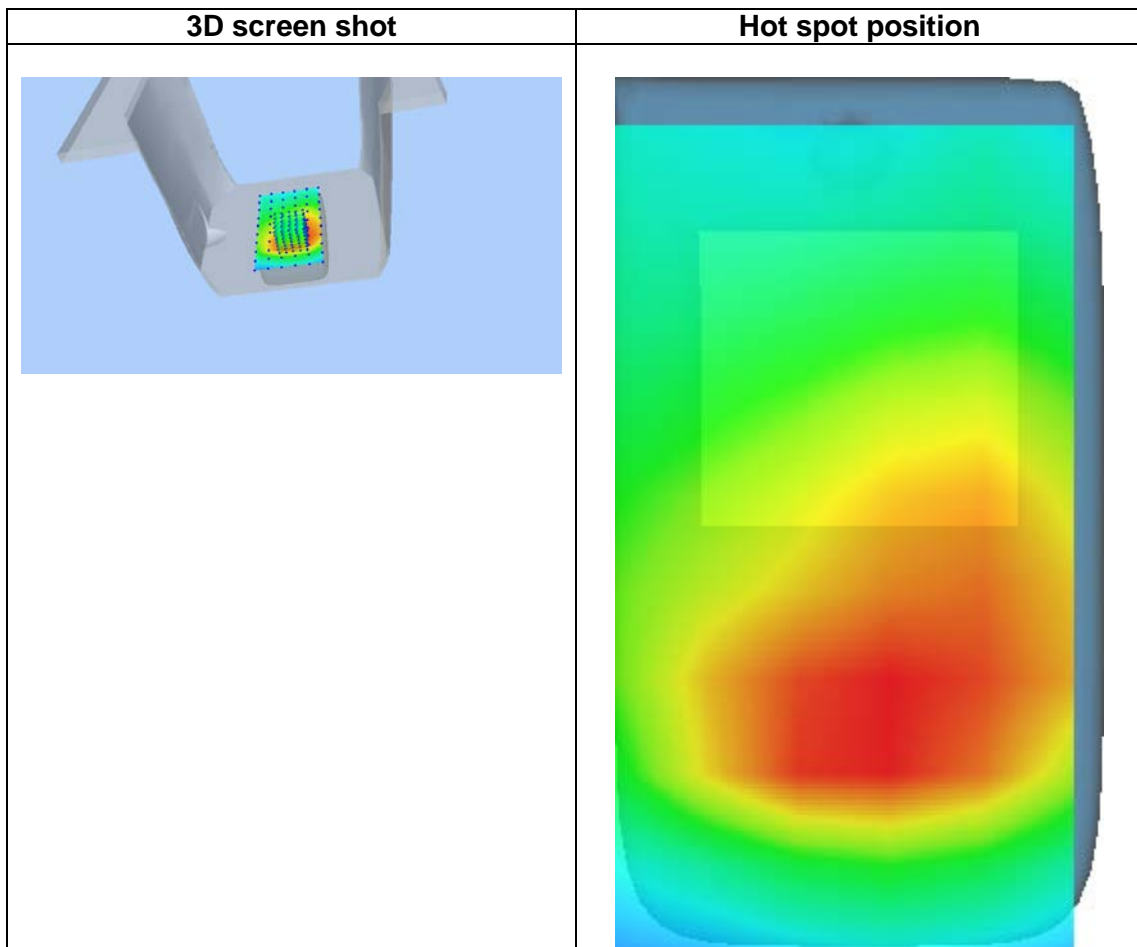
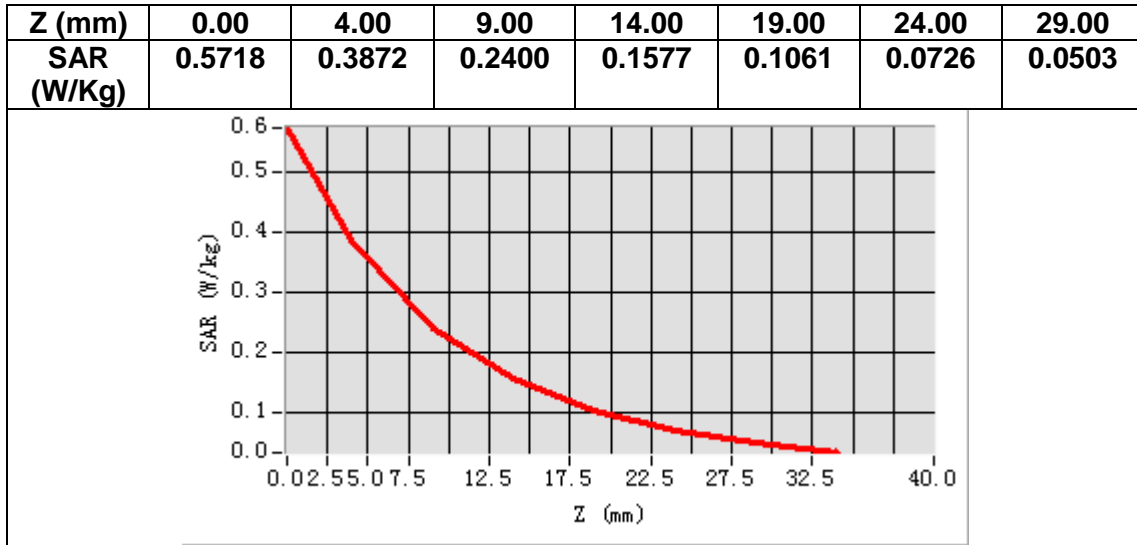
<b>Frequency (MHz)</b>	836.500000
<b>Relative permittivity (real part)</b>	41.506866
<b>Relative permittivity (imaginary part)</b>	19.961800
<b>Conductivity (S/m)</b>	0.927669
<b>Variation (%)</b>	-0.530000



**Maximum location: X=3.00, Y=-33.00**  
**SAR Peak: 0.59 W/kg**

<b>SAR 10g (W/Kg)</b>	0.226227
<b>SAR 1g (W/Kg)</b>	0.384477





# MEASUREMENT 23

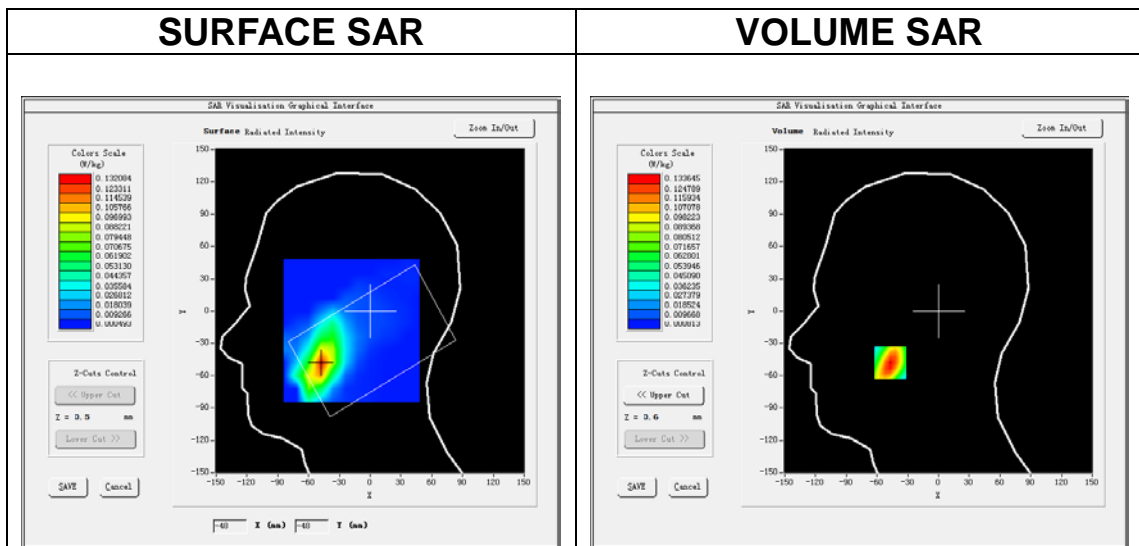
Date of measurement: 2/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 7</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.87</u>

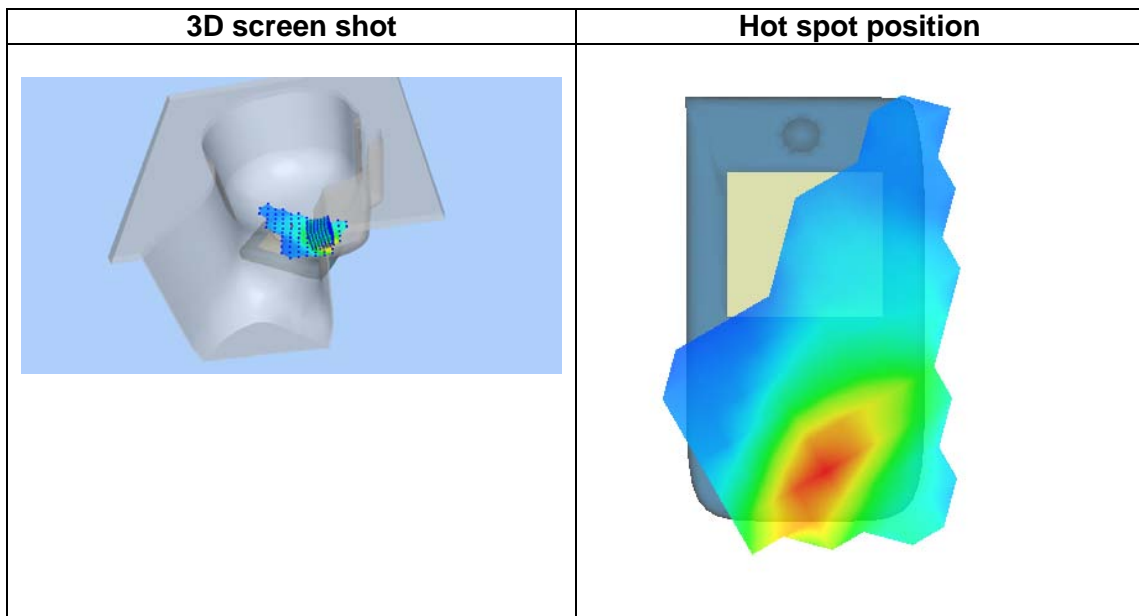
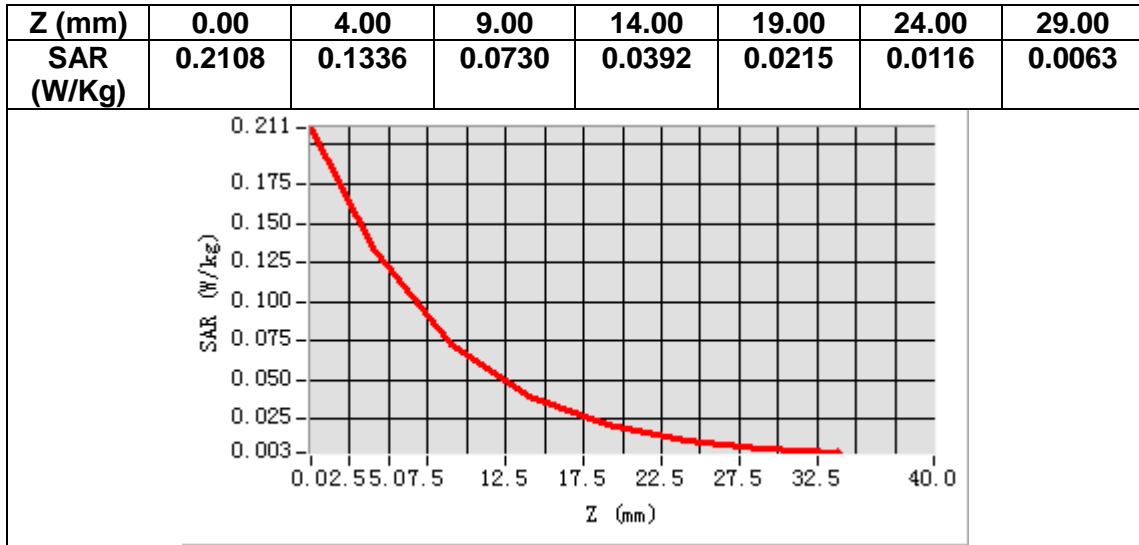
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2535.000000
<b>Relative permittivity (real part)</b>	38.676647
<b>Relative permittivity (imaginary part)</b>	13.817639
<b>Conductivity (S/m)</b>	1.945984
<b>Variation (%)</b>	0.480000



**Maximum location: X=-47.00, Y=-48.00**  
**SAR Peak: 0.21 W/kg**

<b>SAR 10g (W/Kg)</b>	0.064498
<b>SAR 1g (W/Kg)</b>	0.126076



# MEASUREMENT 24

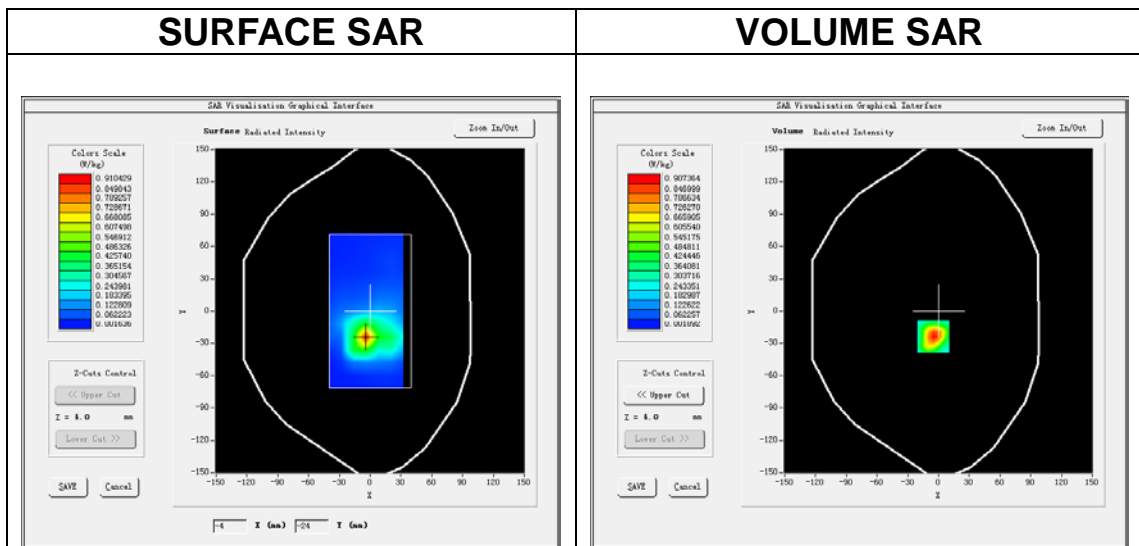
Date of measurement: 2/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 7</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.87</u>

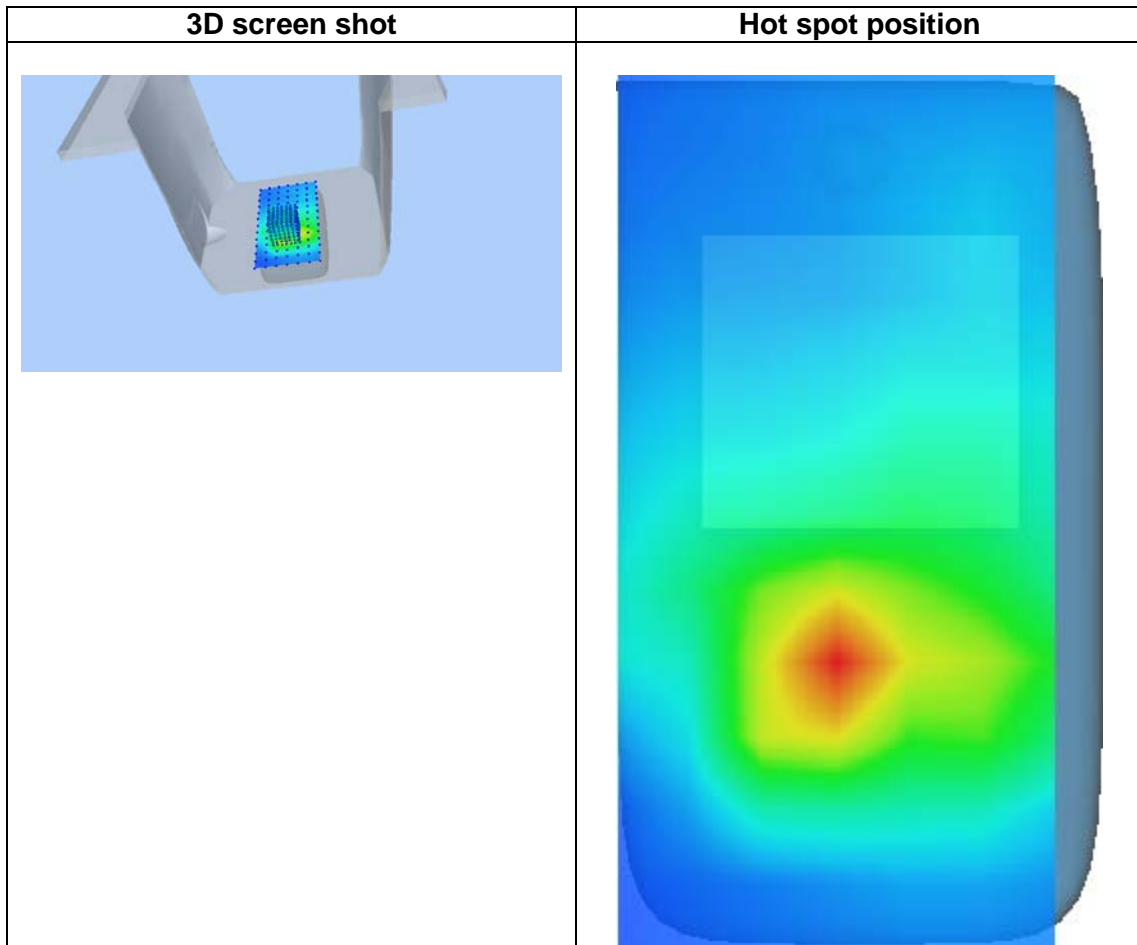
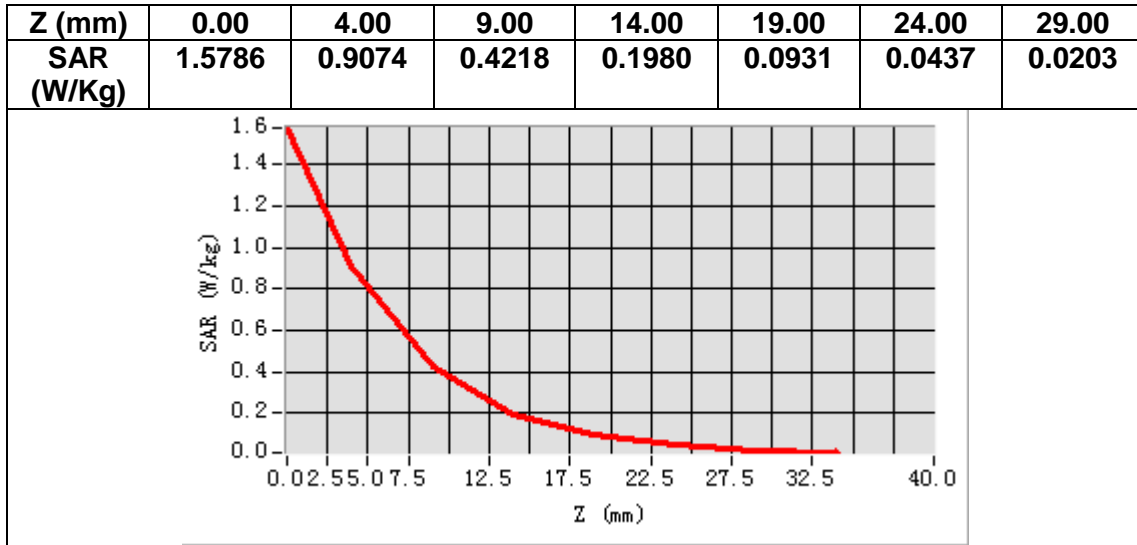
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2510.000000
<b>Relative permittivity (real part)</b>	38.791748
<b>Relative permittivity (imaginary part)</b>	13.760339
<b>Conductivity (S/m)</b>	1.918803
<b>Variation (%)</b>	-0.380000



**Maximum location: X=-5.00, Y=-24.00**  
**SAR Peak: 1.57 W/kg**

<b>SAR 10g (W/Kg)</b>	0.367891
<b>SAR 1g (W/Kg)</b>	0.841588



# MEASUREMENT 25

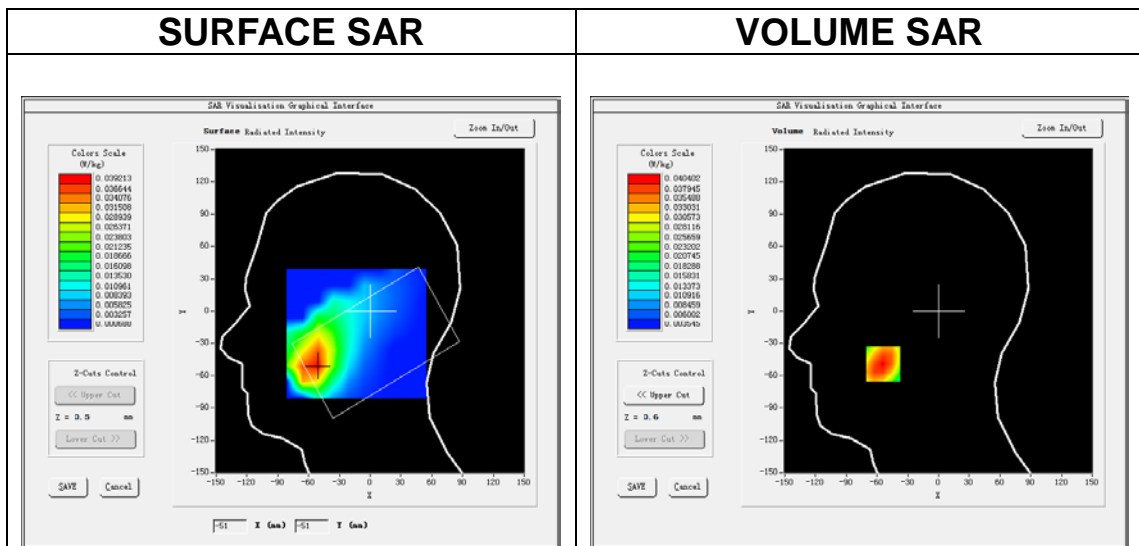
Date of measurement: 7/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 12</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.49</u>

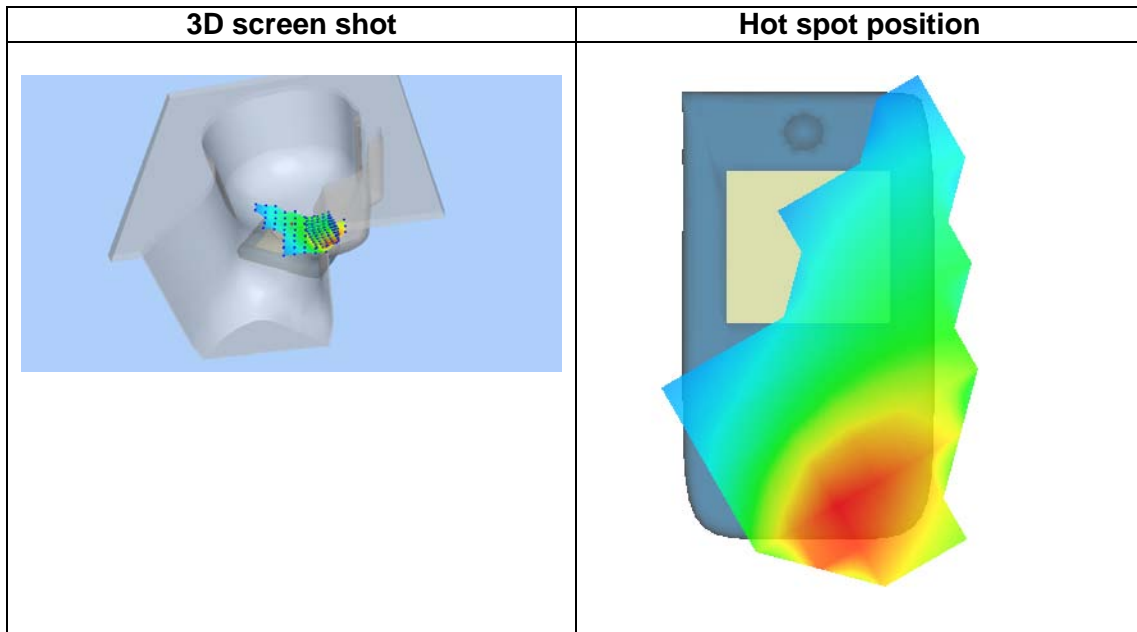
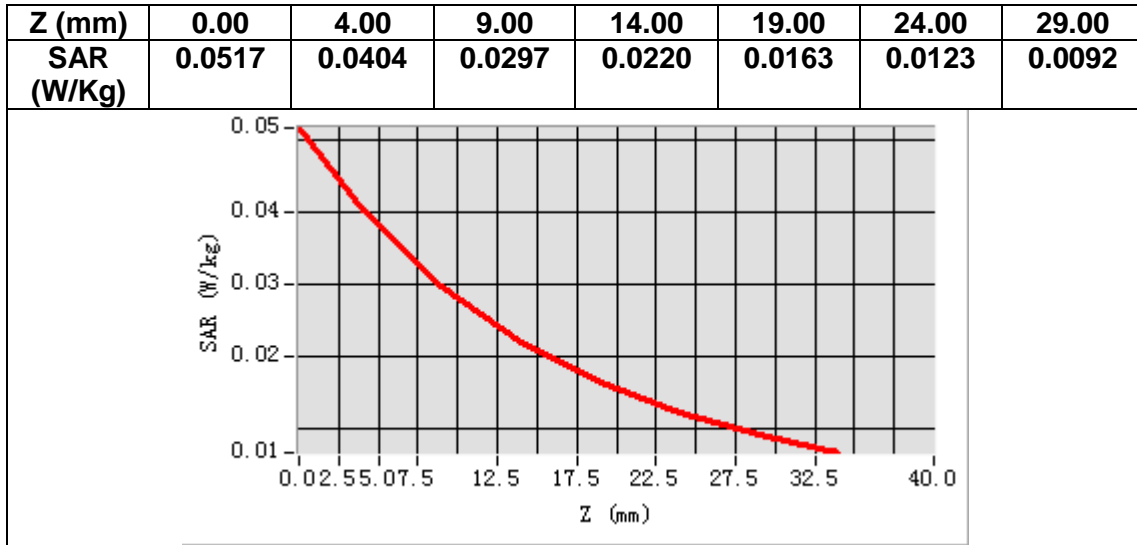
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	707.500000
<b>Relative permittivity (real part)</b>	41.395512
<b>Relative permittivity (imaginary part)</b>	21.835484
<b>Conductivity (S/m)</b>	0.858256
<b>Variation (%)</b>	0.350000



**Maximum location: X=-54.00, Y=-49.00**  
**SAR Peak: 0.05 W/kg**

<b>SAR 10g (W/Kg)</b>	0.026934
<b>SAR 1g (W/Kg)</b>	0.038871



# MEASUREMENT 26

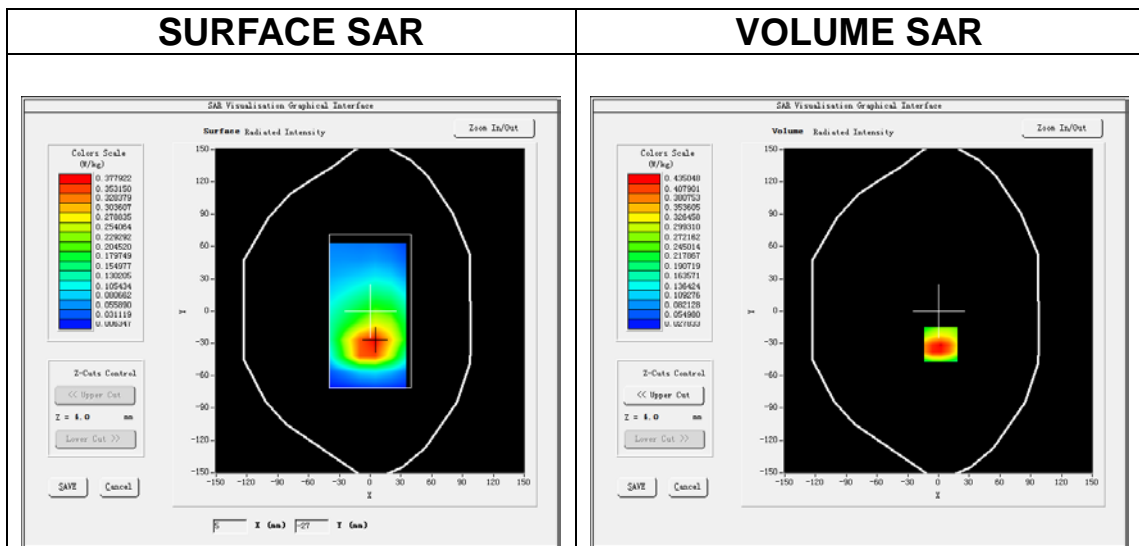
Date of measurement: 7/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 12</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.49</u>

## B. SAR Measurement Results

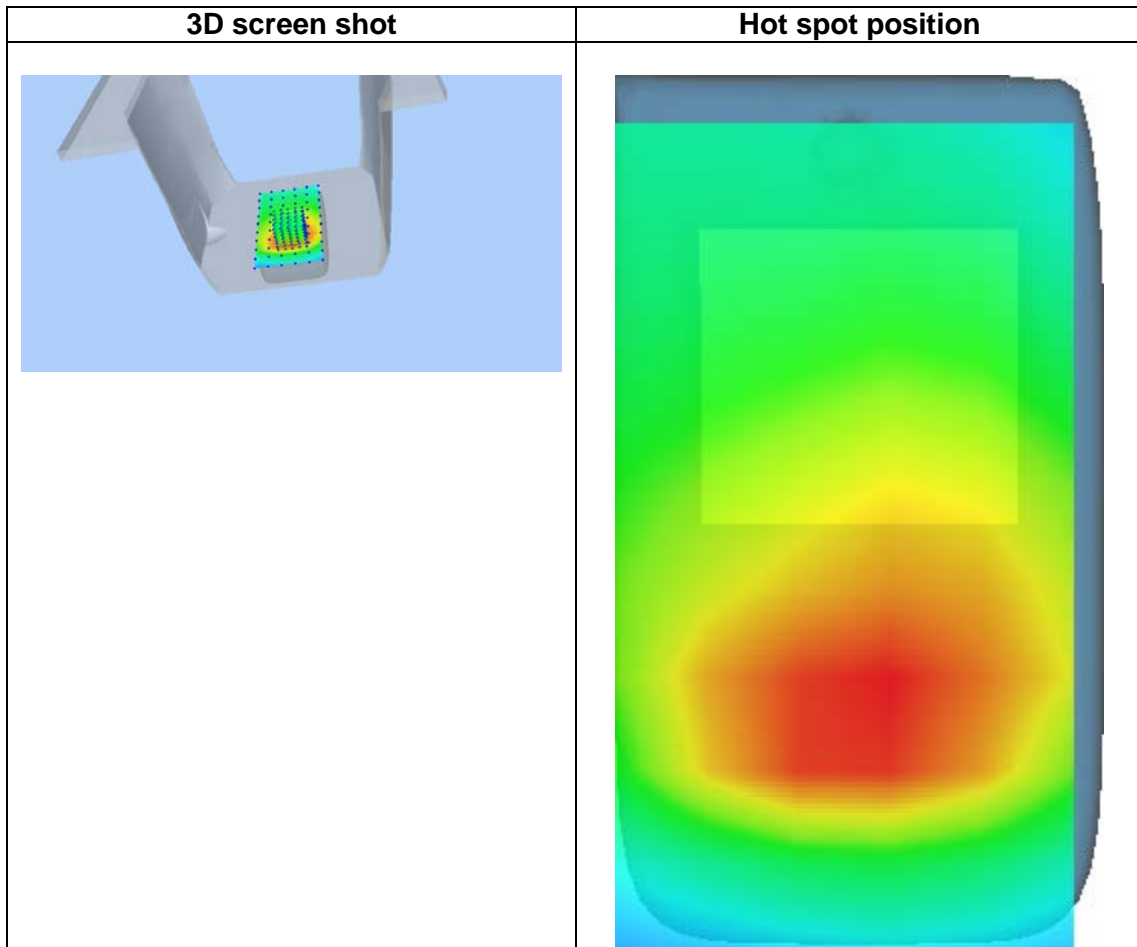
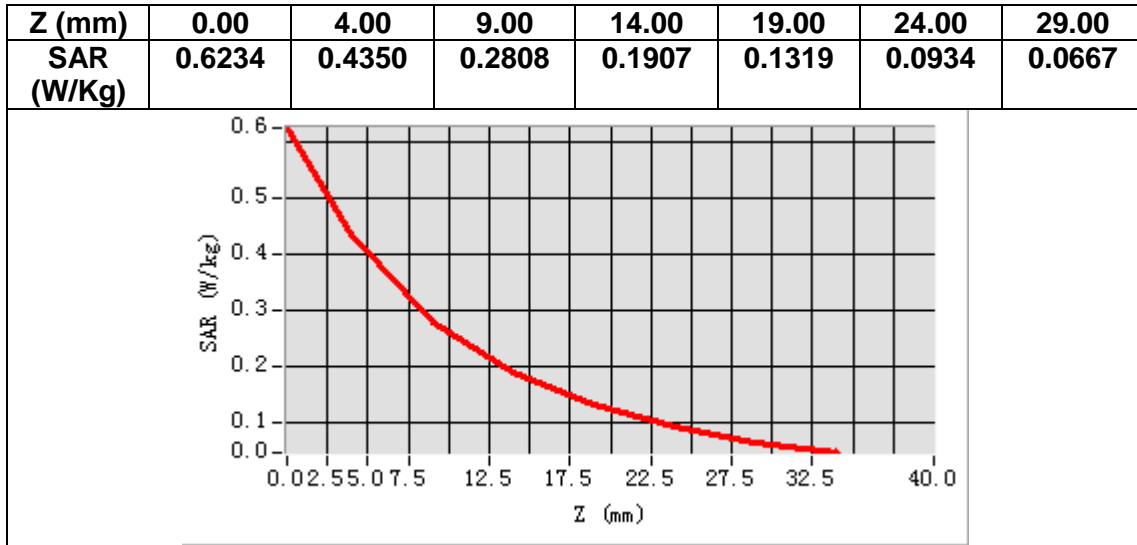
<b>Frequency (MHz)</b>	707.500000
<b>Relative permittivity (real part)</b>	41.395512
<b>Relative permittivity (imaginary part)</b>	21.835484
<b>Conductivity (S/m)</b>	0.858256
<b>Variation (%)</b>	-0.470000



**Maximum location: X=2.00, Y=-31.00**  
**SAR Peak: 0.69 W/kg**

<b>SAR 10g (W/Kg)</b>	0.259167
<b>SAR 1g (W/Kg)</b>	0.436430





# MEASUREMENT 27

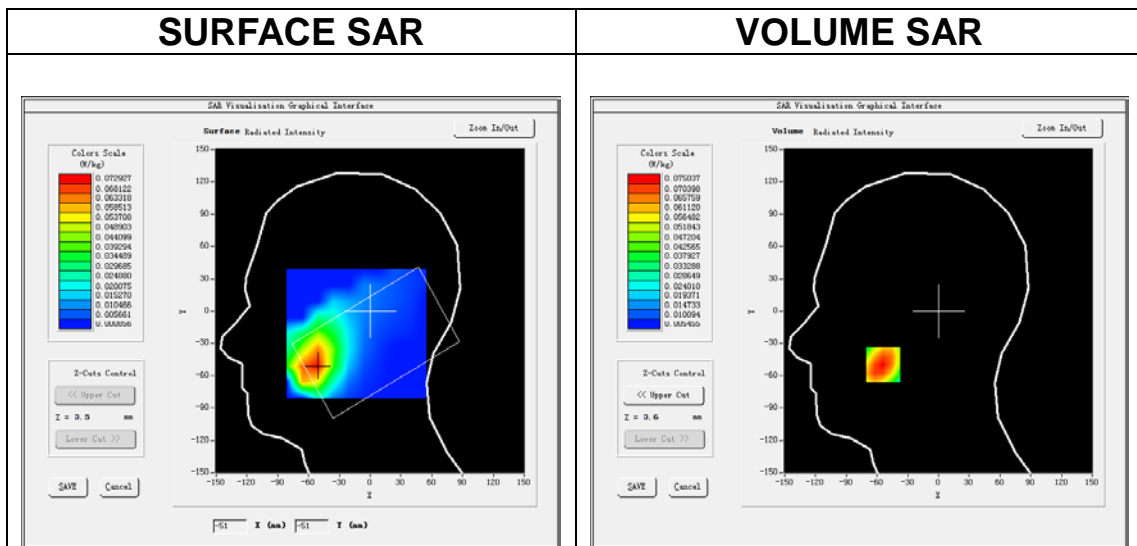
Date of measurement: 7/2/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 13</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>1.49</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	782.000000
<b>Relative permittivity (real part)</b>	40.561661
<b>Relative permittivity (imaginary part)</b>	20.627535
<b>Conductivity (S/m)</b>	0.895579
<b>Variation (%)</b>	0.060000



**Maximum location: X=-54.00, Y=-50.00**  
**SAR Peak: 0.10 W/kg**

<b>SAR 10g (W/Kg)</b>	0.048690
<b>SAR 1g (W/Kg)</b>	0.072484