

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 : Mobile phone

Brand Name : KODAK

Model Name : D9PRO

Family Model : N/A

Report No. : S22090602302001

FCC ID : 2AZYA-D9PRO

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name : Mobile phone
Brand Name : KODAK
Model and/or type reference : D9PRO
Family Model : N/A
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992

Standards : IEEE Std 1528-2013
Published RF exposure KDB procedures

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

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Test Sample Number : S220906023003

Date of Test

Date (s) of performance of tests : Sep. 21, 2022 ~ Oct. 09, 2022

Date of Issue : Oct. 29, 2022

Test Result : Pass

Prepared By : Jacob Chen
(Test Engineer)

Approved By : Alex Li
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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Oct. 29, 2022	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
HEAD AND TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for D9PRO are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.711	0.191	N/A	N/A
1-g Body-Worn (Separation distance of 10mm)		0.817	0.153	N/A	N/A
1-g Hotspot (Separation distance of 10mm)		0.817	0.153	N/A	N/A
Max Simultaneous Tx	Head	0.976	0.902	N/A	0.976
	Body-Worn	0.970	0.970	N/A	0.949
	Hotspot	0.970	0.970	N/A	0.949

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	Mobile phone
Brand Name	KODAK
Model Name	D9PRO
Family Model	N/A
FCC ID	2AZYA-D9PRO
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery Information	DC 3.8V, 5000mAh, 19Wh
HW Version	ums512_1h10_V1.0
SW Version	Kodak_D9PRO_ARG_Ver01
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band2/4/5/7/12/13/17/40/41/66, WLAN 2.4G, Bluetooth
Test Modulation	GSM(GMSK), 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 17	704-716	734-746
	LTE Band 40	2305-2315	
		2350-2360	
	LTE Band 41	2535-2654.8	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
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
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 40)		
	3, tested with power control all Max.(LTE Band 41)		
3, tested with power control all Max.(LTE Band 66)			

1.4. Test specification(s)

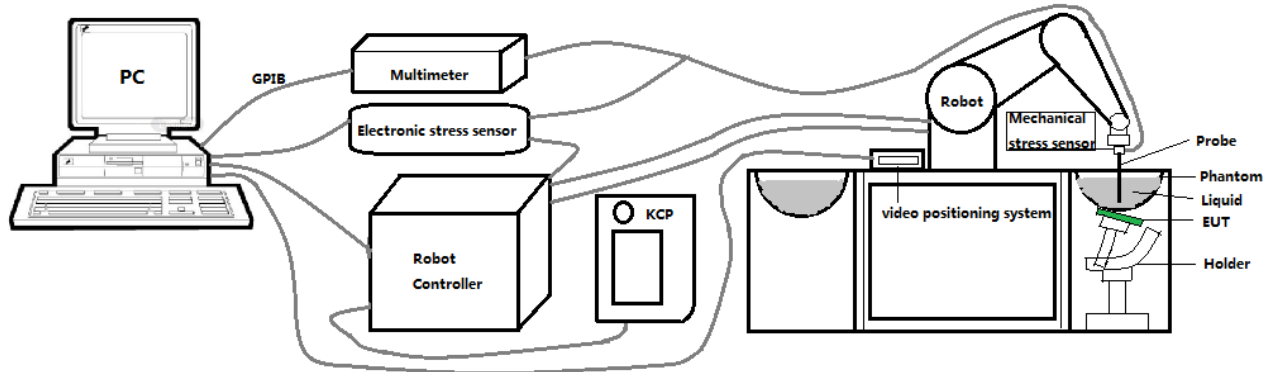
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225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

1.5. Ambient Condition

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

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



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

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

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

2.2. Robot

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



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

2.3. E-Field Probe

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

For the measurements the Specific Dosimetric E-Field Probe 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 ± 1 mm).
 - Probe linearity: ± 0.08 dB
 - Axial isotropy: ± 0.01 dB
 - Hemispherical Isotropy: ± 0.01 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 8mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

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

2.4. SAM phantoms

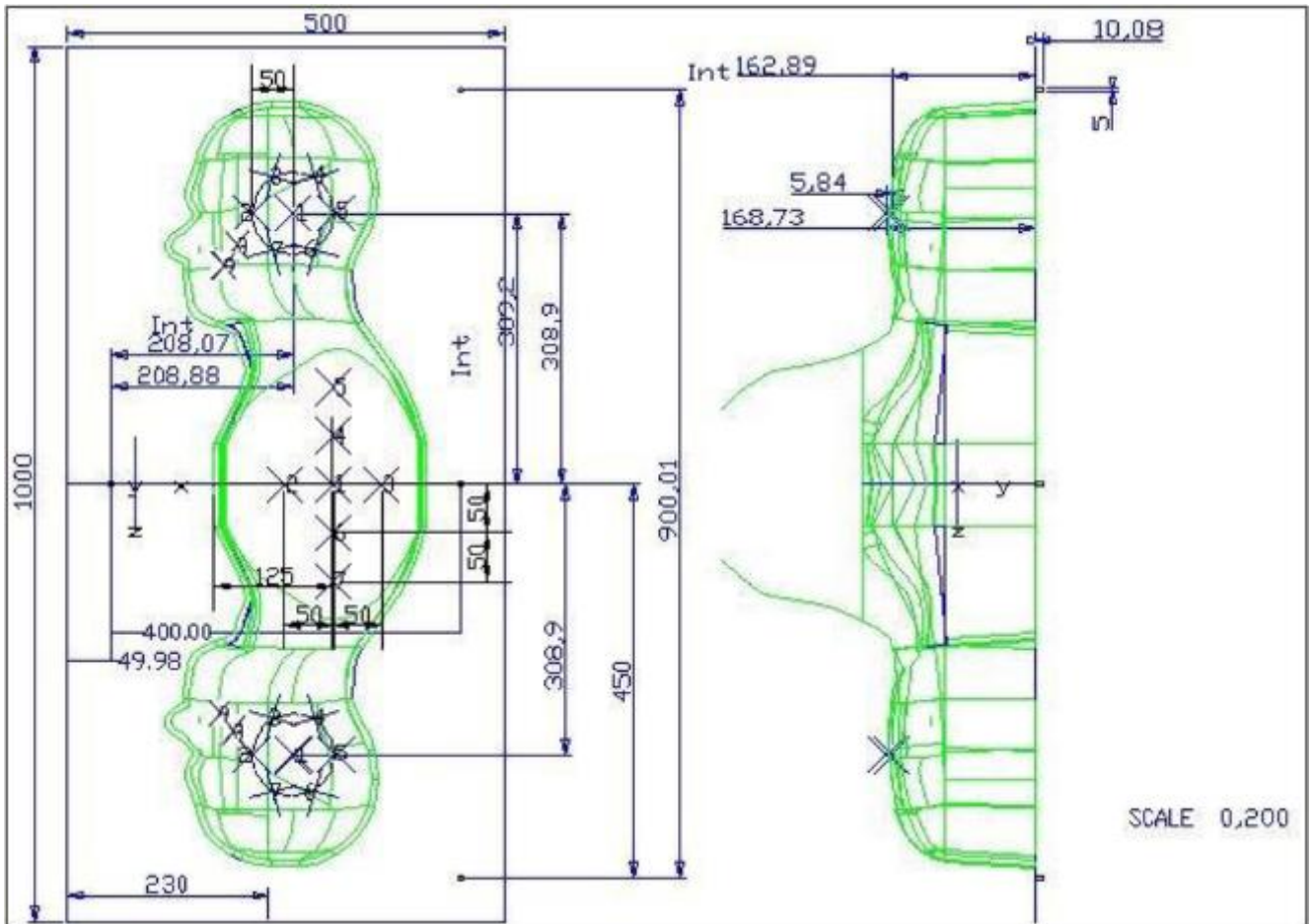
Photo of SAM phantom SN 16/15 SAM119



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

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

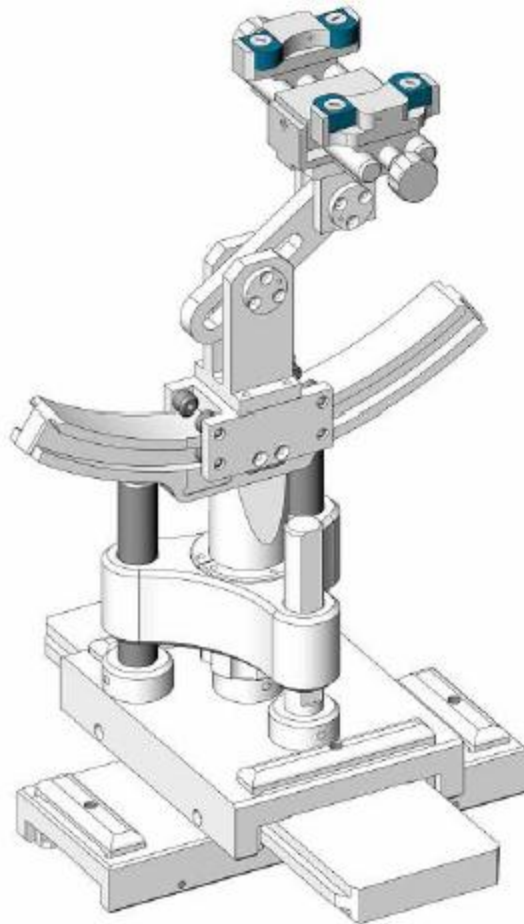


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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	Feb. 01, 2022	Jan. 31, 2023
<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 checked="" 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 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 Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

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

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

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

3.1. Power Reference

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

3.2. Area scan & Zoom scan

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

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

Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

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

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

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

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

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

3.3. Description of interpolation/extrapolation scheme

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

An extrapolation is 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 installed 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.

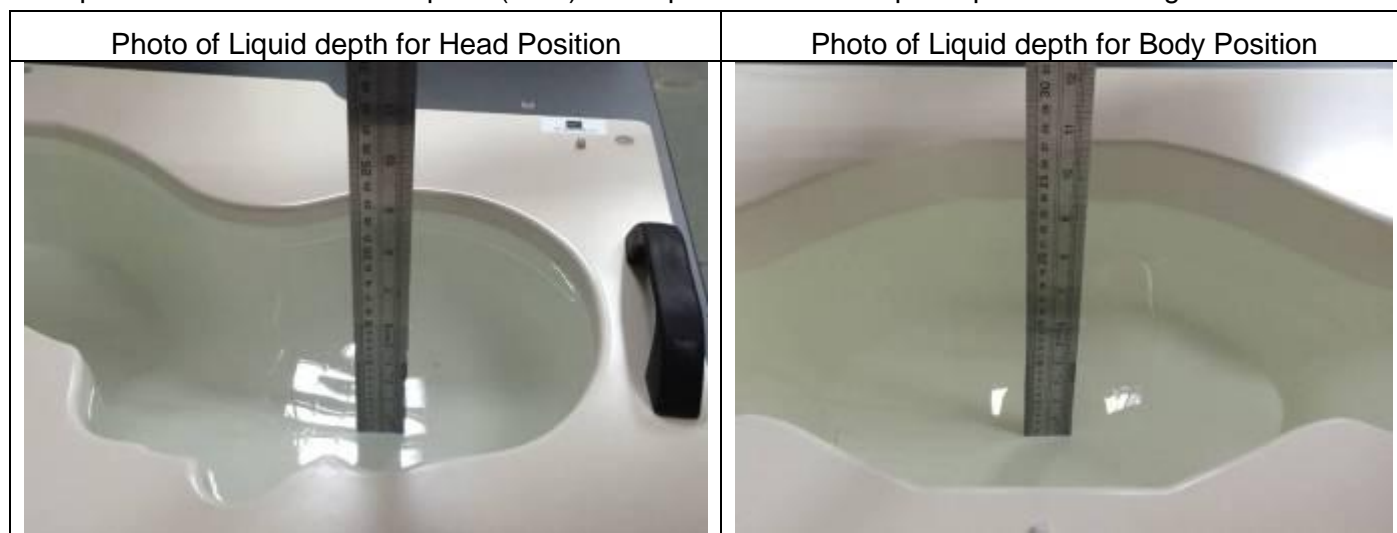
4. System Verification Procedure

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

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.

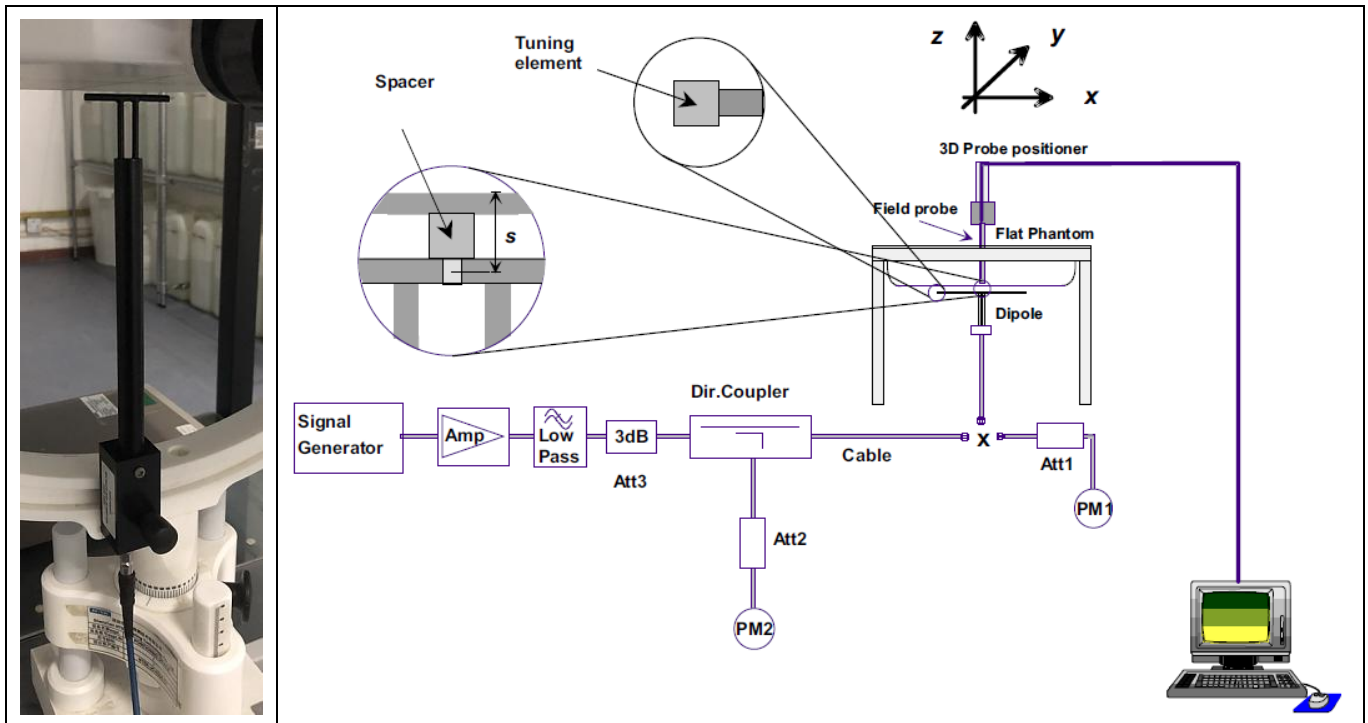
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.22	0.89	21.7 °C	Oct. 09, 2022
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.37	0.92	21.3 °C	Sep. 23, 2022
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.68	1.38	21.2 °C	Sep. 21, 2022
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.35	1.45	21.6 °C	Oct. 08, 2022
Head 2300	2300	39.47 (37.50~41.44)	1.66 (1.58~1.74)	38.07	1.70	21.8 °C	Sep. 28, 2022
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.79	1.77	21.4 °C	Sep. 24, 2022
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	37.69	1.91	21.3 °C	Sep. 22, 2022

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)	8.73	5.95	21.7 °C	Oct. 09, 2022
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	10.29	6.16	21.3 °C	Sep. 23, 2022
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	39.25	19.98	21.2 °C	Sep. 21, 2022
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	43.73	19.12	21.6 °C	Oct. 08, 2022
2300MHz	50.65 (45.59~55.71)	23.55 (21.20~25.90)	46.93	24.61	21.8 °C	Sep. 28, 2022
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	58.21	25.69	21.4 °C	Sep. 24, 2022
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	56.28	22.54	21.3 °C	Sep. 22, 2022

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Ear and handset reference point

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



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

6.2. Definition of the cheek position

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

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

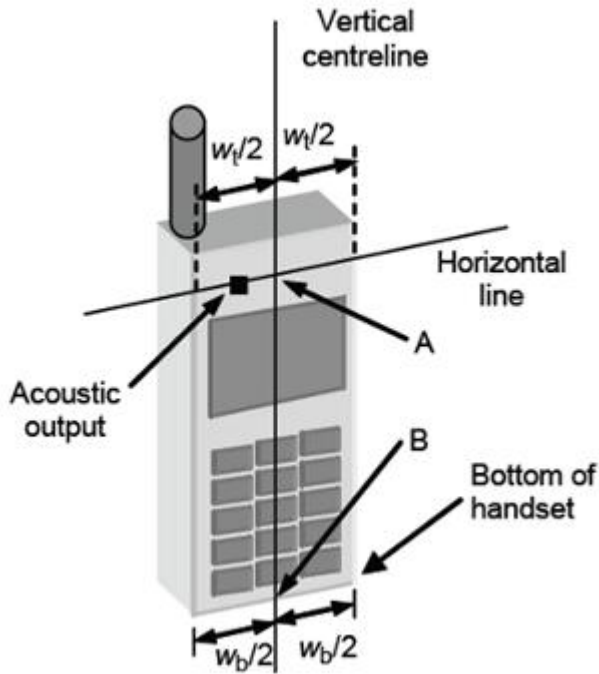


Fig 6.2.1 Handset vertical and horizontal reference lines—“fixed case”

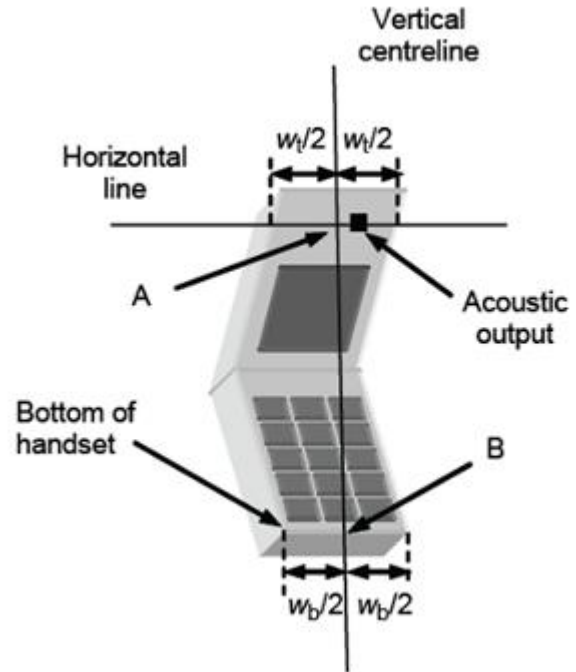


Fig 6.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

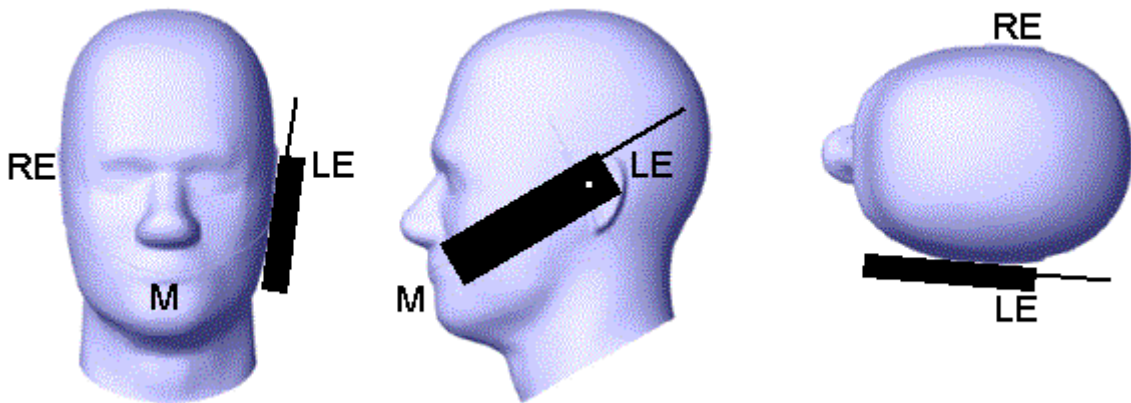


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

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

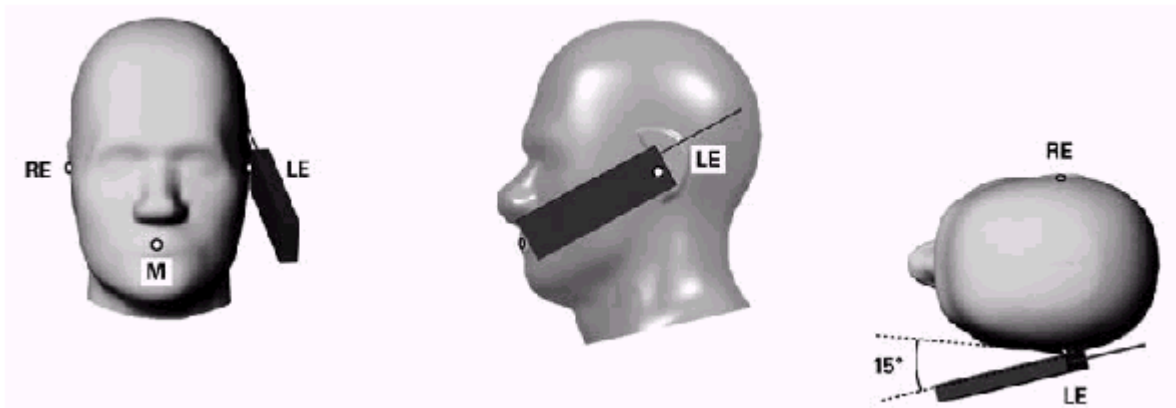


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest

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

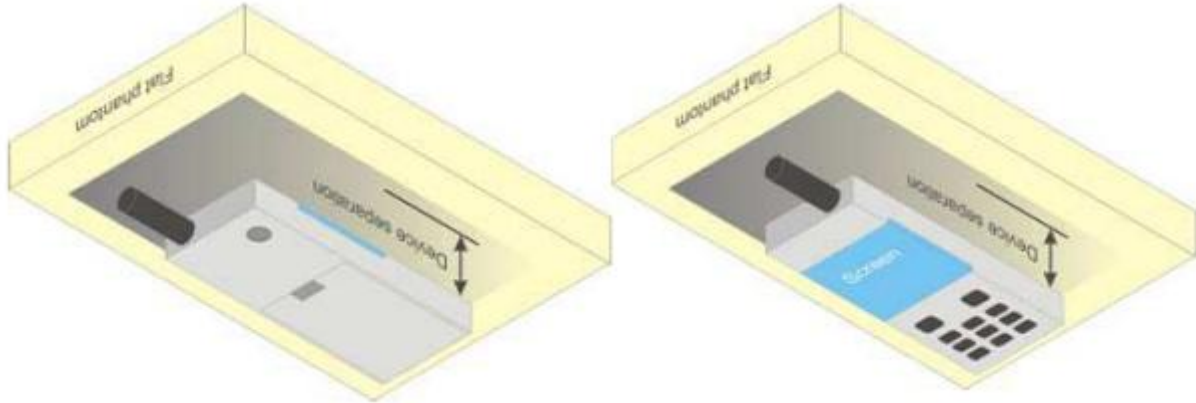


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

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

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

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850		Burst-Averaged output Power (dBm)			Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM (GMSK)	33.00	32.51	32.58	32.40	23.97	23.48	23.55	23.37
GPRS(GMSK, 1 TS)	33.00	32.46	32.55	32.35	23.97	23.43	23.52	23.32
GPRS(GMSK, 2 TS)	30.50	30.38	30.42	30.23	24.48	24.36	24.40	24.21
GPRS(GMSK, 3 TS)	29.00	28.51	28.54	28.38	24.74	24.25	24.28	24.12
GPRS(GMSK, 4 TS)	26.50	26.30	26.33	26.20	23.49	23.29	23.32	23.19
Band GSM1900		Burst-Averaged output Power (dBm)			Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880.0	1909.8	(dBm)	1850.2	1880.0	1909.8
GSM (GMSK)	29.50	29.45	29.38	29.10	20.47	20.42	20.35	20.07
GPRS(GMSK, 1 TS)	29.50	29.44	29.39	29.09	20.47	20.41	20.36	20.06
GPRS(GMSK, 2 TS)	27.50	27.35	27.10	26.80	21.48	21.33	21.08	20.78
GPRS(GMSK, 3 TS)	26.00	25.86	25.64	25.29	21.74	21.60	21.38	21.03
GPRS(GMSK, 4 TS)	24.00	23.70	23.50	23.16	20.99	20.69	20.49	20.15

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 TS) - 9.03 dB

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

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

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

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)	(dBm)	1852.4	1880	1907.6
RMC12.2K	22.50	22.48	22.43	22.35
HSDPA Sub 1	22.50	22.33	22.22	22.21
HSDPA Sub 2	22.00	21.98	21.94	21.94
HSDPA Sub 3	22.00	21.81	21.58	21.61
HSDPA Sub 4	22.00	21.38	21.53	21.49
HSUPA Sub 1	22.50	22.14	21.96	22.06
HSUPA Sub 2	22.50	22.18	22.19	22.16

HSUPA Sub 3	22.00	21.74	21.64	21.84
HSUPA Sub 4	22.50	22.22	22.19	22.04
HSUPA Sub 5	22.00	21.93	21.79	21.96
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	23.00	22.45	22.70	22.70
HSDPA Sub 1	22.50	22.26	22.23	22.20
HSDPA Sub 2	22.00	21.99	21.96	21.94
HSDPA Sub 3	22.00	21.80	21.83	21.86
HSDPA Sub 4	22.00	21.50	21.46	21.40
HSUPA Sub 1	22.50	21.86	22.02	21.68
HSUPA Sub 2	22.50	21.97	22.26	21.89
HSUPA Sub 3	22.00	21.47	21.82	21.71
HSUPA Sub 4	22.50	21.76	22.21	21.80
HSUPA Sub 5	22.00	21.45	21.95	21.52
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	22.50	22.47	22.41	22.30
HSDPA Sub 1	22.50	22.01	21.72	21.68
HSDPA Sub 2	22.00	21.70	21.50	21.51
HSDPA Sub 3	21.50	21.41	21.03	21.19
HSDPA Sub 4	21.50	21.31	21.17	20.88
HSUPA Sub 1	22.00	21.88	21.63	21.37
HSUPA Sub 2	22.00	21.90	21.70	21.65
HSUPA Sub 3	22.00	21.68	21.56	21.38
HSUPA Sub 4	22.00	21.76	21.73	21.67
HSUPA Sub 5	22.00	21.66	21.51	21.37

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	1.4MHz	QPSK	1	0	23.00	22.71	22.71	22.59
			1	2	23.00	22.71	22.65	22.65

2			1	5	23.00	22.60	22.70	22.67
			3	0	23.00	22.52	22.48	22.55
			3	1	23.00	22.58	22.54	22.45
			3	2	23.00	22.53	22.47	22.50
			6	0	21.50	21.49	21.48	21.49
		16QAM	1	0	23.00	22.49	21.01	21.82
			1	2	23.00	22.69	21.00	21.87
			1	5	23.00	22.66	21.02	21.82
			3	0	22.00	21.86	21.54	21.98
			3	1	22.00	21.85	21.51	21.98
			3	2	22.00	21.87	21.50	21.93
			6	0	21.00	20.89	20.84	20.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	23.00	22.47	22.68	22.70
			1	7	23.00	22.46	22.71	22.65
			1	14	23.00	22.49	22.66	22.64
			8	0	22.00	21.55	21.60	21.42
			8	4	22.00	21.50	21.52	21.45
			8	7	22.00	21.49	21.48	21.40
			15	0	21.50	21.46	21.49	21.42
		16QAM	1	0	23.00	22.73	21.60	21.90
			1	7	23.00	22.76	21.57	21.82
			1	14	23.00	22.78	21.56	21.71
			8	0	21.00	20.55	20.69	20.56
			8	4	21.00	20.60	20.69	20.62
			8	7	21.00	20.60	20.65	20.56
			15	0	21.00	20.78	20.62	20.65
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	23.00	22.44	22.64	22.28
			1	12	23.00	22.44	22.61	22.24
			1	24	23.00	22.41	22.63	22.28
			12	0	22.00	21.59	21.50	21.45
			12	6	22.00	21.52	21.51	21.34
			12	11	22.00	21.63	21.38	21.40

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
		16QAM	25	0	22.00	21.62	21.52	21.44
			1	0	22.00	21.81	21.31	21.49
			1	12	22.00	21.80	21.24	21.40
			1	24	22.00	21.84	21.20	21.37
			12	0	21.00	20.59	20.50	20.54
			12	6	21.00	20.55	20.54	20.49
			12	11	21.00	20.66	20.53	20.49
			25	0	21.00	20.72	20.66	20.56
LTE Band 2	10MHz	QPSK	1	0	23.00	22.51	22.48	22.79
			1	24	23.00	22.59	22.50	22.76
			1	49	23.00	22.54	22.51	22.72
			25	0	22.00	21.58	21.51	21.53
			25	12	22.00	21.58	21.54	21.46
			25	24	22.00	21.65	21.55	21.54
		16QAM	1	0	23.00	22.81	21.93	21.57
			1	24	23.00	22.84	22.33	21.47
			1	49	23.00	22.77	22.25	21.45
			25	0	21.00	20.69	20.69	20.67
			25	12	21.00	20.67	20.70	20.58
			25	24	21.00	20.68	20.71	20.56
			50	0	21.00	20.69	20.69	20.54
			50	0	21.00	20.69	20.69	20.54
	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	23.00	22.60	22.51	22.45
			1	37	23.00	22.67	22.58	22.35
			1	74	23.00	22.58	22.49	22.38
			36	0	22.00	21.56	21.54	21.53
			36	18	22.00	21.55	21.47	21.49
			36	37	22.00	21.51	21.58	21.42
			75	0	22.00	21.62	21.55	21.47
		16QAM	1	0	23.00	22.90	21.62	22.31
			1	37	23.00	22.83	21.55	22.19
			1	74	23.00	22.87	21.59	22.09

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
			36	0	21.00	20.65	20.78	20.67
			36	18	21.00	20.64	20.71	20.60
			36	37	21.00	20.67	20.70	20.52
			75	0	21.00	20.69	20.71	20.64
LTE Band 2	20MHz	QPSK	1	0	23.00	22.71	22.55	22.77
			1	49	23.00	22.66	22.50	22.75
			1	99	23.00	22.70	22.61	22.62
			50	0	22.00	21.64	21.55	21.64
			50	24	22.00	21.58	21.60	21.50
			50	49	22.00	21.56	21.61	21.47
			100	0	22.00	21.68	21.65	21.53
		16QAM	1	0	22.00	21.72	21.43	21.55
			1	49	22.00	21.74	21.20	21.52
			1	99	22.00	21.72	21.27	21.47
			50	0	21.00	20.80	20.71	20.72
			50	24	21.00	20.80	20.65	20.57
			50	49	21.00	20.83	20.72	20.58
			100	0	21.00	20.74	20.69	20.62

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.50	22.71	22.57	23.01
			1	2	23.50	22.77	22.60	23.01
			1	5	23.50	22.62	22.69	22.93
			3	0	23.00	22.64	22.68	22.82
			3	1	23.00	22.69	22.75	22.76
			3	2	23.00	22.63	22.70	22.80
			6	0	22.00	21.58	21.63	21.82
		16QAM	1	0	23.00	22.82	22.55	22.40
			1	2	23.00	22.78	22.62	22.46
			1	5	23.00	22.83	22.56	22.40
			3	0	22.50	21.94	21.88	22.19
			3	1	22.50	21.92	21.86	22.24
			3	2	22.50	21.88	21.89	22.18

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
			6	0	21.50	20.82	20.75	21.01
LTE Band 4	3MHz	QPSK	1	0	23.00	22.63	22.60	22.98
			1	7	23.00	22.58	22.63	22.94
			1	14	23.00	22.54	22.69	22.99
			8	0	22.00	21.57	21.62	21.66
			8	4	22.00	21.62	21.70	21.71
			8	7	22.00	21.60	21.69	21.67
			15	0	22.00	21.59	21.66	21.68
		16QAM	1	0	23.00	22.91	21.75	22.31
			1	7	23.00	22.88	21.93	22.48
			1	14	23.00	22.75	21.83	22.37
			8	0	21.00	20.67	20.97	20.89
			8	4	21.00	20.74	20.93	20.86
			8	7	21.00	20.60	20.91	20.90
			15	0	21.00	20.90	20.82	20.80
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	23.00	22.54	22.80	22.58
			1	12	23.00	22.48	22.78	22.61
			1	24	23.00	22.46	22.77	22.61
			12	0	22.00	21.73	21.63	21.75
			12	6	22.00	21.67	21.71	21.72
			12	11	22.00	21.53	21.72	21.75
			25	0	22.00	21.52	21.68	21.76
		16QAM	1	0	22.00	21.92	21.41	21.84
			1	12	22.00	21.86	21.41	21.87
			1	24	22.00	21.84	21.42	21.88
			12	0	21.00	20.70	20.68	20.88
			12	6	21.00	20.62	20.69	20.81
			12	11	21.00	20.63	20.69	20.87
			25	0	21.00	20.70	20.92	20.82
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

4			1	99	23.50	23.42	23.10	23.21	
			50	0	22.00	21.62	21.72	21.79	
			50	24	22.00	21.71	21.76	21.84	
			50	49	22.00	21.64	21.76	21.68	
			100	0	22.00	21.60	21.72	21.72	
	16QAM			1	0	23.00	22.40	22.33	22.46
				1	49	23.00	22.26	22.45	22.48
				1	99	23.00	22.34	22.51	22.45
				50	0	21.00	20.82	20.85	20.85
				50	24	21.00	20.80	20.85	20.94
				50	49	21.00	20.95	20.90	20.86
				100	0	21.00	20.78	20.88	20.87

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	23.00	22.45	22.38	22.61
			1	2	23.00	22.50	22.38	22.54
			1	5	23.00	22.50	22.35	22.57
			3	0	22.50	22.39	22.42	22.34
			3	1	22.50	22.45	22.35	22.34
			3	2	22.50	22.35	22.29	22.33
		16QAM	1	0	22.50	22.29	22.10	22.34
			1	2	22.50	22.26	22.18	21.97
			1	5	22.50	22.31	22.11	22.29
			3	0	22.00	21.53	21.40	21.70
			3	1	22.00	21.56	21.41	21.59
			3	2	22.00	21.50	21.40	21.56
			6	0	21.50	21.04	20.31	20.41
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.00	22.35	22.39	22.57
			1	7	23.00	22.39	22.29	22.57
			1	14	23.00	22.50	22.34	22.56
			8	0	21.50	21.37	21.37	21.32
			8	4	21.50	21.38	21.41	21.36

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)					
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5			
		16QAM	8	7	21.50	21.49	21.37	21.24			
			15	0	21.50	21.34	21.38	21.33			
			1	0	22.50	22.36	22.15	22.21			
			1	7	22.50	22.31	22.06	22.18			
			1	14	22.50	22.36	22.07	22.13			
			8	0	21.00	20.77	20.61	20.28			
			8	4	21.00	20.79	20.47	20.31			
			8	7	21.00	20.39	20.52	20.21			
			15	0	21.00	20.93	20.41	20.38			
LTE Band 5	5MHz	QPSK	1	0	22.50	22.30	22.39	22.15			
			1	12	22.50	22.37	22.37	22.08			
			1	24	22.50	22.30	22.36	22.12			
			12	0	21.50	21.43	21.44	21.16			
			12	6	21.50	21.49	21.44	21.43			
			12	11	21.50	21.31	21.28	21.40			
			25	0	22.00	21.53	21.30	21.39			
		16QAM	1	0	22.00	21.44	21.08	21.85			
			1	12	22.00	21.56	21.04	21.86			
			1	24	22.00	21.58	21.01	21.83			
			12	0	21.00	20.81	20.31	20.28			
			12	6	21.00	20.35	20.34	20.32			
			12	11	21.00	20.32	20.30	20.30			
			25	0	20.50	20.48	20.43	20.44			
					QPSK	1	0	23.00	22.33	22.41	22.60
						1	24	23.00	22.37	22.30	22.54
					16QAM	1	49	23.00	22.37	22.35	22.56
						25	0	21.50	21.43	21.37	21.33
25	12	21.50				21.41	21.38	21.28			
25	24	21.50				21.42	21.34	21.44			
50	0	21.50				21.42	21.23	21.36			
1	0	22.50				22.39	21.43	21.36			
1	24	22.50				22.46	21.33	21.30			

			1	49	22.50	22.49	21.38	21.22
			25	0	20.50	20.44	20.46	20.42
			25	12	20.50	20.33	20.38	20.39
			25	24	20.50	20.33	20.31	20.36
			50	0	20.50	20.46	20.46	20.29

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	23.00	22.81	22.71	22.90
			1	12	23.00	22.80	22.69	22.93
			1	24	23.00	22.87	22.69	22.94
			12	0	22.50	21.82	21.83	22.03
			12	6	22.50	21.78	21.78	21.93
			12	11	22.50	21.86	21.90	22.02
		16QAM	25	0	22.00	21.81	21.83	21.98
			1	0	22.50	21.91	21.99	22.07
			1	12	22.50	21.88	21.92	22.07
			1	24	22.50	21.94	21.99	22.05
			12	0	21.00	20.71	20.94	20.95
			12	6	21.00	20.80	20.94	20.92
			12	11	21.00	20.79	20.95	20.94
			25	0	21.50	20.97	21.04	21.20

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	23.50	22.78	22.90	23.26
			1	24	23.50	22.79	22.83	23.29
			1	49	23.50	22.88	22.92	23.34
			25	0	22.50	21.88	21.87	22.05
			25	12	22.50	21.77	21.81	21.88
			25	24	22.50	21.72	21.88	21.94
			50	0	22.00	21.70	21.79	21.89
		16QAM	1	0	23.50	22.99	21.97	22.56
			1	24	23.50	22.96	21.98	22.52
			1	49	23.50	23.04	21.91	22.56
			25	0	21.50	20.97	21.00	21.20
			25	12	21.50	20.93	21.02	21.12

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
			25	24	21.50	20.90	21.01	21.19
			50	0	21.50	20.98	21.02	21.02
LTE Band 7	15MHz	QPSK	1	0	23.50	22.70	22.94	22.75
			1	37	23.50	22.67	22.91	22.89
			1	74	23.50	22.72	23.02	22.90
			36	0	22.50	21.76	21.89	21.95
			36	18	22.50	21.68	21.84	22.04
			36	37	22.50	21.76	21.83	21.96
			75	0	22.50	21.82	21.86	22.06
		16QAM	1	0	23.00	22.88	21.96	22.70
			1	37	23.00	22.99	21.90	22.88
			1	74	23.00	22.98	21.96	22.84
			36	0	21.50	20.99	21.09	21.08
			36	18	21.50	20.99	21.15	21.09
			36	37	21.50	21.05	21.07	21.14
			75	0	21.50	21.03	20.98	21.18
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	23.50	22.78	22.70	22.93
			1	49	23.50	22.76	22.77	23.06
			1	99	23.50	22.79	22.81	23.05
			50	0	22.00	21.78	21.89	21.79
			50	24	22.00	21.83	21.80	21.99
			50	49	22.00	21.77	21.84	21.96
			100	0	22.00	21.80	21.89	21.91
		16QAM	1	0	22.50	21.53	22.19	21.75
			1	49	22.50	21.71	22.14	21.92
			1	99	22.50	22.14	22.20	22.02
			50	0	21.50	21.00	20.93	21.01
			50	24	21.50	21.03	20.89	21.09
			50	49	21.50	21.02	20.97	21.12
			100	0	21.50	20.82	20.89	21.12

Band	Band	Modulation	RB	Tune-up	Channel/Frequency(MHz)
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	Width		Configuration		(dBm)			
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.00	22.44	22.37	22.57
			1	2	23.00	22.49	22.38	22.61
			1	5	23.00	22.13	22.39	22.61
			3	0	23.00	22.50	22.41	22.36
			3	1	23.00	22.43	22.45	22.36
			3	2	23.00	22.51	22.41	22.36
		16QAM	6	0	21.50	21.41	21.38	21.39
			1	0	22.50	22.41	22.14	22.04
			1	2	22.50	22.36	22.16	22.10
			1	5	22.50	22.42	22.15	22.22
			3	0	22.00	21.60	21.40	21.63
			3	1	22.00	21.60	21.42	21.71
			3	2	22.00	21.60	21.40	21.70
6	0	21.00	20.95	20.28	20.50			
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.00	22.46	22.40	22.61
			1	7	23.00	22.37	22.41	22.58
			1	14	23.00	22.39	22.29	22.61
			8	0	21.50	21.48	21.31	21.33
			8	4	21.50	21.36	21.39	21.28
			8	7	21.50	21.44	21.49	21.39
			15	0	22.00	21.30	21.55	21.29
		16QAM	1	0	22.50	22.27	22.13	22.21
			1	7	22.50	22.26	22.19	22.22
			1	14	22.50	22.17	22.16	22.19
			8	0	21.00	20.79	20.64	20.29
			8	4	21.00	20.75	20.76	20.22
			8	7	21.00	20.77	20.34	20.39
15	0	21.00	20.91	20.39	20.31			
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE	5MHz	QPSK	1	0	23.00	22.31	22.50	22.31

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
Band 12			1	12	23.00	22.29	22.41	22.24
			1	24	23.00	22.41	22.46	22.16
			12	0	22.00	21.45	21.33	21.31
			12	6	22.00	21.53	21.45	21.31
			12	11	22.00	21.50	21.43	21.22
			25	0	22.00	21.47	21.54	21.29
		16QAM	1	0	22.00	21.42	21.17	21.29
			1	12	22.00	21.44	21.14	21.24
			1	24	22.00	21.58	21.16	21.31
			12	0	21.00	20.78	20.29	20.24
			12	6	21.00	20.80	20.29	20.28
			12	11	21.00	20.87	20.29	20.20
			25	0	21.00	20.95	20.52	20.40
LTE Band 12	10MHz	QPSK	1	0	23.00	22.44	22.38	22.73
			1	24	23.00	22.50	22.46	22.71
			1	49	23.00	22.48	22.39	22.65
			25	0	22.00	21.51	21.36	21.38
			25	12	22.00	21.47	21.46	21.43
			25	24	22.00	21.38	21.51	21.37
			50	0	22.00	21.50	21.52	21.38
		16QAM	1	0	23.00	22.34	21.35	21.35
			1	24	23.00	22.52	21.44	21.39
			1	49	23.00	22.38	21.44	21.28
			25	0	21.00	20.71	20.43	20.41
			25	12	21.00	20.40	20.45	20.42
			25	24	21.00	20.34	20.51	20.42
			50	0	20.50	20.39	20.48	20.39

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	22.50	22.36	22.15	22.47
			1	12	22.50	22.42	22.24	22.37
			1	24	22.50	22.38	22.26	22.46
			12	0	21.50	21.33	21.44	21.40

			12	6	21.50	21.29	21.37	21.37
			12	11	21.50	21.44	21.36	21.41
			25	0	21.50	21.34	21.39	21.46
		16QAM	1	0	22.50	21.09	21.88	21.50
			1	12	22.50	21.03	22.02	21.55
			1	24	22.50	21.05	22.00	21.63
			12	0	21.00	20.25	20.28	20.33
			12	6	21.00	20.26	20.36	20.34
			12	11	21.00	20.33	20.29	20.80
			25	0	21.00	20.44	20.57	20.51

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.00	22.43	22.40	22.53
			1	12	23.00	22.38	22.41	22.48
			1	24	23.00	22.45	22.36	22.53
			12	0	22.00	21.45	21.45	21.50
			12	6	22.00	21.44	21.58	21.38
			12	11	22.00	21.50	21.43	21.37
			25	0	22.00	21.56	21.45	21.34
		16QAM	1	0	22.00	21.29	21.52	21.62
			1	12	22.00	21.23	21.62	21.48
			1	24	22.00	21.28	21.51	21.47
			12	0	20.50	20.47	20.45	20.35
			12	6	20.50	20.45	20.48	20.28
			12	11	20.50	20.48	20.45	20.29
			25	0	21.00	20.61	20.40	20.43

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.00	22.52	22.56	22.82
			1	24	23.00	22.52	22.58	22.82
			1	49	23.00	22.48	22.45	22.80
			25	0	22.00	21.40	21.61	21.49
			25	12	22.00	21.63	21.59	21.48
			25	24	22.00	21.50	21.43	21.39
			50	0	22.00	21.61	21.59	21.43

16QAM	1	0	23.00	22.55	21.44	21.50
	1	24	23.00	22.40	21.50	21.50
	1	49	23.00	22.49	21.46	21.33
	25	0	21.00	20.43	20.57	20.48
	25	12	21.00	20.41	20.59	20.50
	25	24	21.00	20.45	20.52	20.47
	50	0	21.00	20.47	20.57	20.48

2305-2315

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		38725/2307.5	38750/2310	38775/2312.5
LTE Band 40	5MHz	QPSK	1	0	23.50	22.80	22.91	23.08
			1	12	23.50	22.67	22.86	23.12
			1	24	23.50	22.68	22.94	23.12
			12	0	22.00	21.84	21.90	21.86
			12	6	22.00	21.73	21.83	21.79
			12	11	22.00	21.74	21.82	21.82
			25	0	22.00	21.79	21.86	21.85
		16QAM	1	0	22.50	21.69	22.18	21.54
			1	12	22.50	21.63	22.02	21.55
			1	24	22.50	21.69	22.25	21.51
			12	0	21.50	21.04	21.00	20.93
			12	6	21.50	21.00	20.89	20.84
			12	11	21.50	20.97	20.94	20.93
			25	0	21.50	20.90	21.11	21.08
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
RB Size	RB Offset	/	38750/2310	/				
LTE Band 40	10MHz	QPSK	1	0	23.00	/	22.92	/
			1	24	23.00	/	22.99	/
			1	49	23.00	/	22.98	/
			25	0	22.00	/	21.95	/
			25	12	22.00	/	21.86	/
			25	24	22.00	/	21.78	/
			50	0	22.00	/	21.91	/
		16QAM	1	0	23.00	/	22.37	/
			1	24	23.00	/	22.50	/
			1	49	23.00	/	22.49	/

			25	0	21.00	/	20.99	/
			25	12	21.00	/	20.92	/
			25	24	21.00	/	20.95	/
			50	0	21.50	/	21.03	/

2350-2360

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39175/2352.5	39200/2355	39225/2357.5
LTE Band 40	5MHz	QPSK	1	0	23.00	22.81	22.41	22.73
			1	12	23.00	22.75	22.39	22.71
			1	24	23.00	22.79	22.41	22.75
			12	0	22.00	21.64	21.78	21.68
			12	6	22.00	21.65	21.66	21.79
			12	11	22.00	21.57	21.68	21.63
			25	0	22.00	21.63	21.74	21.68
		16QAM	1	0	22.50	21.36	21.41	22.10
			1	12	22.50	21.33	21.40	21.99
			1	24	22.50	21.37	21.43	22.00
			12	0	21.00	20.76	20.61	20.80
			12	6	21.00	20.76	20.72	20.75
			12	11	21.00	20.70	20.82	20.66
			25	0	21.50	21.02	20.75	21.00
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	39200/2355	/
LTE Band 40	10MHz	QPSK	1	0	23.00	/	22.68	/
			1	24	23.00	/	22.75	/
			1	49	23.00	/	22.77	/
			25	0	22.00	/	21.61	/
			25	12	22.00	/	21.67	/
			25	24	22.00	/	21.75	/
			50	0	22.00	/	21.68	/
		16QAM	1	0	22.50	/	22.18	/
			1	24	22.50	/	22.37	/
			1	49	22.50	/	22.21	/
			25	0	21.00	/	20.73	/
			25	12	21.00	/	20.79	/
			25	24	21.00	/	20.76	/

			50	0	21.00	/	20.91	/
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Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40065/2537.5	40639/2594.9	41213/2652.3
LTE Band 41	5MHz	QPSK	1	0	22.00	21.36	21.81	21.72
			1	12	22.00	21.17	21.93	21.55
			1	24	22.00	21.14	21.86	21.67
			12	0	21.00	20.21	20.86	20.57
			12	6	21.00	20.33	20.91	20.52
			12	11	21.00	20.18	20.85	20.54
			25	0	21.00	20.21	20.81	20.60
		16QAM	1	0	21.50	20.06	21.17	20.27
			1	12	21.50	19.99	21.11	20.21
			1	24	21.50	20.03	21.23	20.20
			12	0	20.00	19.31	19.87	19.59
			12	6	20.00	19.18	19.91	19.58
			12	11	20.00	19.28	19.93	19.55
			25	0	20.50	19.55	20.21	19.79

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40090/2540	40639/2594.9	41188/2649.80
LTE Band 41	10MHz	QPSK	1	0	23.00	22.78	22.70	22.62
			1	24	23.00	22.82	22.75	22.57
			1	49	23.00	22.95	22.72	22.57
			25	0	22.00	21.78	21.78	21.69
			25	12	22.00	21.78	21.89	21.57
			25	24	22.00	21.78	21.89	21.53
			50	0	22.00	21.84	21.92	21.58
		16QAM	1	0	22.50	22.47	21.09	22.00
			1	24	22.50	22.00	21.05	21.94
			1	49	22.50	22.19	21.11	22.10
			25	0	21.50	20.92	21.01	20.76
			25	12	21.50	20.87	20.96	20.80
			25	24	21.50	20.95	20.95	20.75
			50	0	21.50	21.08	21.02	20.82

Band	Band Width	Modulation	RB Configuration	Tune-up (dBm)	Channel/Frequency(MHz)
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LTE Band 66	1.4MHz	QPSK	1	0	23.50	22.59	22.71	23.01
			1	2	23.50	22.67	22.69	23.03
			1	5	23.50	22.65	22.67	22.98
			3	0	23.00	22.54	22.80	22.82
			3	1	23.00	22.43	22.70	22.84
			3	2	23.00	22.54	22.77	22.74
			6	0	22.00	21.35	21.71	21.72
		16QAM	1	0	23.00	22.63	22.41	22.04
			1	2	23.00	22.63	22.37	22.11
			1	5	23.00	22.64	22.42	22.05
			3	0	22.50	21.80	22.22	22.26
			3	1	22.50	21.81	22.18	22.26
			3	2	22.50	21.79	22.20	22.23
			6	0	21.50	20.75	20.79	21.15
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	3MHz	QPSK	1	0	23.50	22.41	22.71	22.99
			1	7	23.50	22.48	22.61	23.04
			1	14	23.50	22.35	22.66	22.96
			8	0	22.00	21.46	21.80	21.81
			8	4	22.00	21.52	21.84	21.79
			8	7	22.00	21.48	21.78	21.78
			15	0	22.00	21.47	21.78	21.86
		16QAM	1	0	23.00	22.65	22.43	21.85
			1	7	23.00	22.68	22.28	21.77
			1	14	23.00	22.70	22.38	21.82
			8	0	21.50	20.52	21.21	20.94
			8	4	21.50	20.51	21.16	20.88
			8	7	21.50	20.56	21.14	20.90
			15	0	21.50	20.73	20.97	21.03
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	5MHz	QPSK	1	0	23.00	22.40	22.82	22.60
			1	12	23.00	22.44	22.86	22.61

66			1	24	23.00	22.40	22.91	22.60
			12	0	22.00	21.47	21.79	21.84
			12	6	22.00	21.50	21.68	21.77
			12	11	22.00	21.62	21.73	21.71
			25	0	22.00	21.49	21.79	21.85
		16QAM	1	0	22.50	21.78	21.88	22.46
			1	12	22.50	21.75	21.94	22.38
			1	24	22.50	21.78	21.92	22.38
			12	0	21.00	20.56	20.65	20.92
			12	6	21.00	20.54	20.73	20.81
			12	11	21.00	20.60	20.73	20.89
			25	0	21.50	20.68	20.93	21.10
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	23.50	22.50	22.79	23.05
			1	24	23.50	22.44	22.76	23.12
			1	49	23.50	22.56	22.86	23.12
			25	0	22.00	21.63	21.75	21.89
			25	12	22.00	21.49	21.81	21.88
			25	24	22.00	21.55	21.85	21.81
			50	0	22.00	21.52	21.72	21.79
		16QAM	1	0	23.00	22.80	21.71	21.90
			1	24	23.00	22.82	21.82	21.84
			1	49	23.00	22.91	21.76	21.86
			25	0	21.50	20.60	20.94	21.04
			25	12	21.50	20.53	20.96	21.02
			25	24	21.50	20.60	20.95	21.00
			50	0	21.00	20.54	20.97	20.93
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	23.00	22.52	22.81	22.67
			1	37	23.00	22.47	22.78	22.56
			1	74	23.00	22.51	22.82	22.66
			36	0	22.00	21.55	21.82	21.82

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
			36	18	22.00	21.51	21.70	21.77
			36	37	22.00	21.56	21.80	21.82
			75	0	22.00	21.54	21.80	21.88
		16QAM	1	0	23.00	22.83	22.49	22.78
			1	37	23.00	22.82	22.42	22.78
			1	74	23.00	22.88	22.47	22.70
			36	0	21.50	20.66	21.03	20.88
			36	18	21.50	20.62	21.00	20.84
			36	37	21.50	20.60	20.98	20.86
			75	0	21.00	20.65	20.86	20.92
LTE Band 66	20MHz	QPSK	1	0	23.50	22.71	22.69	22.89
			1	49	23.50	22.67	22.70	23.03
			1	99	23.50	22.73	22.70	23.04
			50	0	22.00	21.61	21.73	21.78
			50	24	22.00	21.56	21.68	21.73
			50	49	22.00	21.61	21.67	21.79
			100	0	22.00	21.55	21.81	21.84
		16QAM	1	0	22.00	21.21	21.90	21.72
			1	49	22.00	21.27	21.93	21.76
			1	99	22.00	21.37	21.98	21.78
			50	0	21.00	20.68	20.95	20.95
			50	24	21.00	20.76	20.94	20.90
			50	49	21.00	20.82	20.91	20.97
			100	0	21.00	20.79	20.93	20.98

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	19.00	18.60
	6	2437	19.00	18.78
	11	2462	19.00	18.65
802.11g	1	2412	16.50	16.22
	6	2437	16.50	15.82
	11	2462	16.50	15.59

802.11n HT20	1	2412	16.50	16.40
	6	2437	16.50	15.73
	11	2462	16.50	15.86
802.11n HT40	3	2422	15.50	15.00
	6	2437	15.50	13.91
	9	2452	15.50	15.06

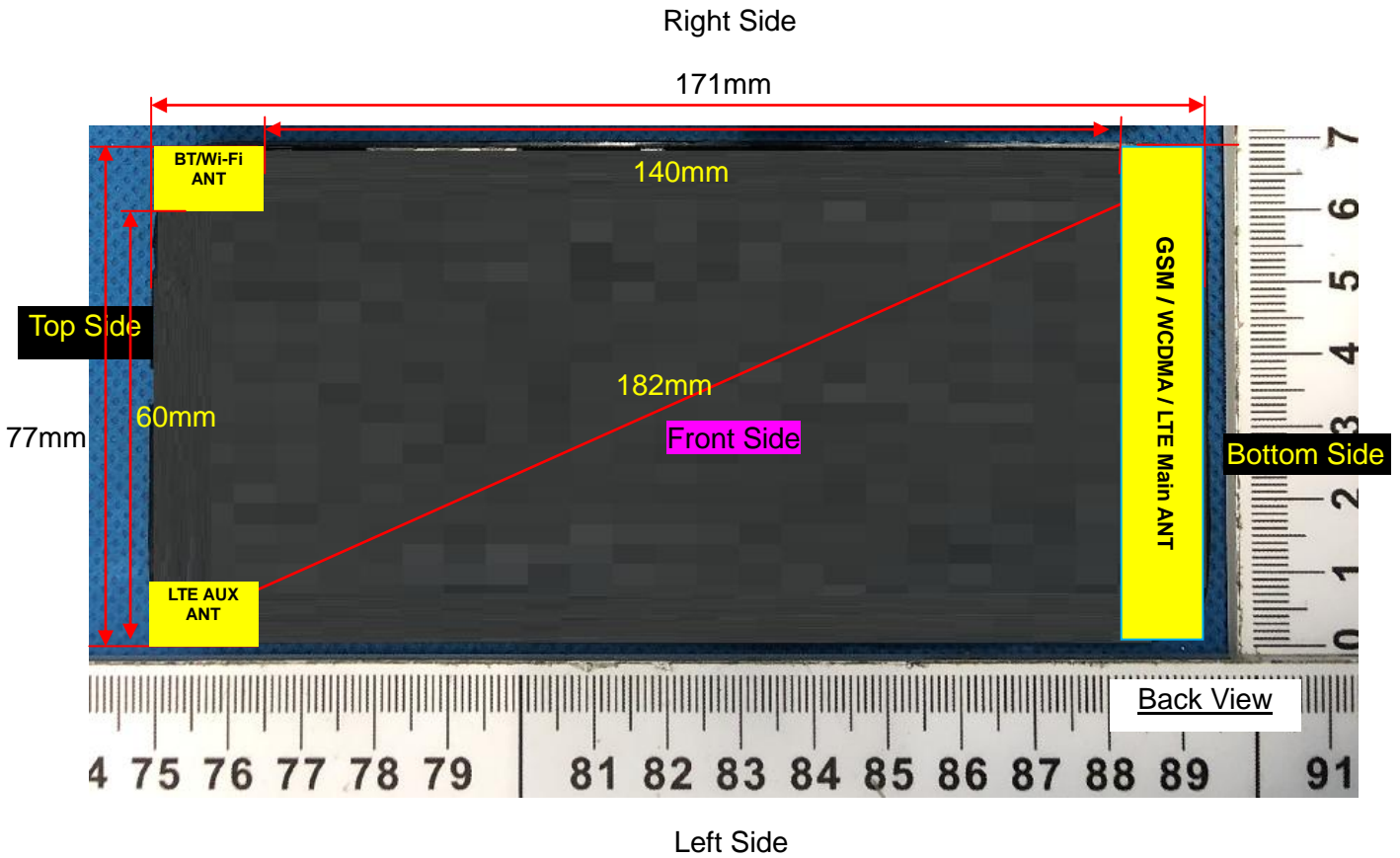
NOTE: Power measurement results of WLAN 2.4G.

BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
1M	7.000	5.545	6.768	5.511	
2M	8.000	5.959	6.028	7.560	
3M	8.000	6.246	6.315	7.758	

BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
	0CH	-1.000	-1.425	-1.773
	19CH	0.000	-0.601	-0.904
	39CH	0.000	-0.884	-1.032

NOTE: Power measurement results of Bluetooth.

8. Antenna Location



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

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

9. Stand-alone SAR test exclusion

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

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

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

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

SAR test exclusion.

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	8.00	6.31	5	2.480	1.99	3.0	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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

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

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

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

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement Result

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	189/836.4	GPRS(GMSK 3TS)	0.070	0.055	-2.62	28.54	29.00	0.078	2022/9/23	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 3TS)	0.036	0.028	-1.42	28.54	29.00	0.040	2022/9/23	
Right Cheek	189/836.4	GPRS(GMSK 3TS)	0.062	0.047	-1.14	28.54	29.00	0.069	2022/9/23	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 3TS)	0.031	0.023	-3.81	28.54	29.00	0.034	2022/9/23	

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.078	0.045	-3.06	28.54	29.00	0.087	2022/9/23	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.123	0.074	2.02	28.54	29.00	0.137	2022/9/23	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.078	0.045	-3.06	28.54	29.00	0.087	2022/9/23	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.123	0.074	2.02	28.54	29.00	0.137	2022/9/23	2#
Left Side	189/836.4	GPRS(GMSK 3TS)	0.045	0.026	-1.54	28.54	29.00	0.050	2022/9/23	
Right Side	189/836.4	GPRS(GMSK 3TS)	0.051	0.030	-3.04	28.54	29.00	0.057	2022/9/23	
Bottom Side	189/836.4	GPRS(GMSK 3TS)	0.075	0.043	2.02	28.54	29.00	0.083	2022/9/23	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 3TS)	0.302	0.184	-2.84	25.64	26.00	0.328	2022/10/08	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.161	0.097	-3.12	25.64	26.00	0.175	2022/10/08	
Right Cheek	661/1880	GPRS(GMSK 3TS)	0.277	0.167	3.38	25.64	26.00	0.301	2022/10/08	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.145	0.088	1.59	25.64	26.00	0.158	2022/10/08	

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.216	0.115	-2.81	25.64	26.00	0.235	2022/10/08	
Back Side	661/1880	GPRS(GMSK 3TS)	0.317	0.177	-1.29	25.64	26.00	0.344	2022/10/08	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.216	0.115	-2.81	25.64	26.00	0.235	2022/10/08	
Back Side	661/1880	GPRS(GMSK 3TS)	0.317	0.177	-1.29	25.64	26.00	0.344	2022/10/08	4#
Left Side	661/1880	GPRS(GMSK 3TS)	0.108	0.058	3.57	25.64	26.00	0.117	2022/10/08	
Right Side	661/1880	GPRS(GMSK 3TS)	0.099	0.055	-1.47	25.64	26.00	0.108	2022/10/08	
Bottom Side	661/1880	GPRS(GMSK 3TS)	0.175	0.098	3.32	25.64	26.00	0.190	2022/10/08	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.566	0.339	-1.56	22.43	22.50	0.575	2022/10/08	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.301	0.173	-3.30	22.43	22.50	0.306	2022/10/08	
Right Cheek	9400/1880	RMC12.2K	0.496	0.282	1.70	22.43	22.50	0.504	2022/10/08	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.267	0.154	-1.56	22.43	22.50	0.271	2022/10/08	

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.450	0.235	3.72	22.43	22.50	0.457	2022/10/08	
Back Side	9400/1880	RMC12.2K	0.721	0.397	-0.37	22.43	22.50	0.733	2022/10/08	6#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.450	0.235	3.72	22.43	22.50	0.457	2022/10/08	
Back Side	9400/1880	RMC12.2K	0.721	0.397	-0.37	22.43	22.50	0.733	2022/10/08	6#
Left Side	9400/1880	RMC12.2K	0.225	0.123	-2.90	22.43	22.50	0.229	2022/10/08	
Right Side	9400/1880	RMC12.2K	0.231	0.121	2.42	22.43	22.50	0.235	2022/10/08	
Bottom Side	9400/1880	RMC12.2K	0.375	0.202	1.97	22.43	22.50	0.381	2022/10/08	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1413/1732.6	RMC12.2K	0.549	0.353	-0.33	22.70	23.00	0.588	2022/9/21	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.313	0.191	-0.62	22.70	23.00	0.335	2022/9/21	
Right Cheek	1413/1732.6	RMC12.2K	0.488	0.298	1.63	22.70	23.00	0.523	2022/9/21	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.255	0.156	-0.06	22.70	23.00	0.273	2022/9/21	

NOTE: Head SAR test results of WCDMA Band 2

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

Front Side	1413/1732.6	RMC12.2K	0.390	0.217	0.10	22.70	23.00	0.418	2022/9/21	
Back Side	1413/1732.6	RMC12.2K	0.635	0.365	-0.21	22.70	23.00	0.680	2022/9/21	8#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.390	0.217	0.10	22.70	23.00	0.418	2022/9/21	
Back Side	1413/1732.6	RMC12.2K	0.635	0.365	-0.21	22.70	23.00	0.680	2022/9/21	8#
Left Side	1413/1732.6	RMC12.2K	0.195	0.106	-2.10	22.70	23.00	0.209	2022/9/21	
Right Side	1413/1732.6	RMC12.2K	0.195	0.112	1.00	22.70	23.00	0.209	2022/9/21	
Bottom Side	1413/1732.6	RMC12.2K	0.335	0.189	2.27	22.70	23.00	0.359	2022/9/21	

NOTE: Hotspot SAR test results of WCDMA Band 2

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	0.041	0.031	0.47	22.41	22.50	0.042	2022/9/23	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.021	0.015	-3.58	22.41	22.50	0.021	2022/9/23	
Right Cheek	4182/836.4	RMC12.2K	0.039	0.029	3.45	22.41	22.50	0.040	2022/9/23	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.018	0.016	2.88	22.41	22.50	0.018	2022/9/23	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.060	0.035	-0.21	22.41	22.50	0.061	2022/9/23	
Back Side	4182/836.4	RMC12.2K	0.071	0.044	-0.54	22.41	22.50	0.072	2022/9/23	10#

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

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

								(W/Kg)		
Front Side	4182/836.4	RMC12.2K	0.060	0.035	-0.21	22.41	22.50	0.061	2022/9/23	
Back Side	4182/836.4	RMC12.2K	0.071	0.044	-0.54	22.41	22.50	0.072	2022/9/23	10#
Left Side	4182/836.4	RMC12.2K	0.024	0.014	2.92	22.41	22.50	0.025	2022/9/23	
Right Side	4182/836.4	RMC12.2K	0.027	0.016	1.85	22.41	22.50	0.028	2022/9/23	
Bottom Side	4182/836.4	RMC12.2K	0.040	0.024	0.01	22.41	22.50	0.041	2022/9/23	

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of LTE Band 2

Test Position of Head	Test channel /Freq.	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(1,0)	0.574	0.352	-0.05	22.55	23.00	0.637	2022/10/08	13#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,0)	0.327	0.193	1.92	22.55	23.00	0.363	2022/10/08	
Right Cheek	18900/1880	20M QPSK(1,0)	0.524	0.318	2.76	22.55	23.00	0.581	2022/10/08	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,0)	0.270	0.157	-1.27	22.55	23.00	0.299	2022/10/08	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,0)	0.342	0.211	-1.37	21.55	22.00	0.379	2022/10/08	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.182	0.097	2.85	21.55	22.00	0.202	2022/10/08	
Right Cheek	18900/1880	20M QPSK(50,0)	0.284	0.171	-1.86	21.55	22.00	0.315	2022/10/08	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.140	0.093	-4.70	21.55	22.00	0.155	2022/10/08	

NOTE: Head SAR test results of LTE Band 2

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

Front Side	18900/1880	20M QPSK(1,0)	0.468	0.256	0.97	22.55	23.00	0.519	2022/10/08	
Back Side	18900/1880	20M QPSK(1,0)	0.737	0.411	0.29	22.55	23.00	0.817	2022/10/08	14#
Back Side	18700/1860	20M QPSK(1,0)	0.604	0.327	-3.77	22.71	23.00	0.646	2022/10/08	
Back Side	19100/1900	20M QPSK(1,0)	0.641	0.343	0.66	22.77	23.00	0.676	2022/10/08	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.276	0.137	3.70	21.55	22.00	0.306	2022/10/08	
Back Side	18900/1880	20M QPSK(50,0)	0.404	0.240	-0.98	21.55	22.00	0.448	2022/10/08	
100%RB										
Back Side	18900/1880	20M QPSK(100,0)	0.388	0.235	1.52	21.65	22.00	0.421	2022/10/08	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,0)	0.468	0.256	0.97	22.55	23.00	0.519	2022/10/08	
Back Side	18900/1880	20M QPSK(1,0)	0.737	0.411	0.29	22.55	23.00	0.817	2022/10/08	14#
Left Side	18900/1880	20M QPSK(1,0)	0.225	0.123	-0.74	22.55	23.00	0.250	2022/10/08	
Right Side	18900/1880	20M QPSK(1,0)	0.222	0.123	-3.70	22.55	23.00	0.246	2022/10/08	
Bottom Side	18900/1880	20M QPSK(1,0)	0.375	0.199	0.62	22.55	23.00	0.416	2022/10/08	
Back Side	18700/1860	20M QPSK(1,0)	0.604	0.327	-3.77	22.71	23.00	0.646	2022/10/08	
Back Side	19100/1900	20M QPSK(1,0)	0.641	0.343	0.66	22.77	23.00	0.676	2022/10/08	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.276	0.137	3.70	21.55	22.00	0.306	2022/10/08	

Back Side	18900/1880	20M QPSK(50,0)	0.404	0.240	-0.98	21.55	22.00	0.448	2022/10/08	
Left Side	18900/1880	20M QPSK(50,0)	0.125	0.069	-3.45	21.55	22.00	0.139	2022/10/08	
Right Side	18900/1880	20M QPSK(50,0)	0.125	0.070	-2.74	21.55	22.00	0.139	2022/10/08	
Bottom Side	18900/1880	20M QPSK(50,0)	0.203	0.111	-3.60	21.55	22.00	0.225	2022/10/08	
100%RB										
Back Side	18900/1880	20M QPSK(100,0)	0.388	0.235	1.52	21.65	22.00	0.421	2022/10/08	

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20175/1732.5	20M QPSK(1,99)	0.607	0.392	-0.35	23.10	23.50	0.666	2022/9/21	15#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.348	0.218	-0.91	23.10	23.50	0.382	2022/9/21	
Right Cheek	20175/1732.5	20M QPSK(1,99)	0.537	0.343	-1.31	23.10	23.50	0.589	2022/9/21	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.293	0.187	-0.27	23.10	23.50	0.321	2022/9/21	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,24)	0.355	0.204	1.27	21.76	22.00	0.375	2022/9/21	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.200	0.123	-0.05	21.76	22.00	0.211	2022/9/21	
Right Cheek	20175/1732.5	20M QPSK(50,24)	0.290	0.183	-4.04	21.76	22.00	0.306	2022/9/21	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.150	0.102	1.01	21.76	22.00	0.159	2022/9/21	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
			1RB							
Front Side	20175/1732.5	20M QPSK(1,99)	0.438	0.244	3.59	23.10	23.50	0.480	2022/9/21	
Back Side	20175/1732.5	20M QPSK(1,99)	0.697	0.401	-0.39	23.10	23.50	0.764	2022/9/21	16#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.256	0.133	-4.14	21.76	22.00	0.271	2022/9/21	
Back Side	20175/1732.5	20M QPSK(50,24)	0.407	0.229	4.68	21.76	22.00	0.430	2022/9/21	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
			1RB							
Front Side	20175/1732.5	20M QPSK(1,99)	0.438	0.244	3.59	23.10	23.50	0.480	2022/9/21	
Back Side	20175/1732.5	20M QPSK(1,99)	0.697	0.401	-0.39	23.10	23.50	0.764	2022/9/21	16#
Left Side	20175/1732.5	20M QPSK(1,99)	0.216	0.118	3.58	23.10	23.50	0.237	2022/9/21	
Right Side	20175/1732.5	20M QPSK(1,99)	0.222	0.124	3.80	23.10	23.50	0.243	2022/9/21	
Bottom Side	20175/1732.5	20M QPSK(1,99)	0.355	0.204	-0.22	23.10	23.50	0.389	2022/9/21	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.256	0.133	-4.14	21.76	22.00	0.271	2022/9/21	
Back Side	20175/1732.5	20M QPSK(50,24)	0.407	0.229	4.68	21.76	22.00	0.430	2022/9/21	
Left Side	20175/1732.5	20M QPSK(50,24)	0.126	0.061	1.84	21.76	22.00	0.133	2022/9/21	
Right Side	20175/1732.5	20M	0.127	0.073	-0.63	21.76	22.00	0.134	2022/9/21	

		QPSK(50,24)								
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.186	0.102	2.13	21.76	22.00	0.197	2022/9/21	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,0)	0.037	0.030	2.48	22.41	23.00	0.042	2022/9/23	17#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.022	0.017	-0.60	22.41	23.00	0.025	2022/9/23	
Right Cheek	20525/836.5	10M QPSK(1,0)	0.033	0.026	-0.97	22.41	23.00	0.038	2022/9/23	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.017	0.015	-0.93	22.41	23.00	0.019	2022/9/23	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,24)	0.019	0.017	-3.75	21.34	21.50	0.020	2022/9/23	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.011	0.009	1.56	21.34	21.50	0.011	2022/9/23	
Right Cheek	20525/836.5	10M QPSK(25,24)	0.017	0.015	0.74	21.34	21.50	0.018	2022/9/23	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.009	0.009	-4.55	21.34	21.50	0.009	2022/9/23	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,0)	0.060	0.038	3.38	22.41	23.00	0.069	2022/9/23	
Back Side	20525/836.5	10M	0.063	0.041	2.04	22.41	23.00	0.072	2022/9/23	18#

		QPSK(1,0)								
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.030	0.022	3.78	21.34	21.50	0.031	2022/9/23	
Back Side	20525/836.5	10M QPSK(25,24)	0.037	0.021	-1.09	21.34	21.50	0.038	2022/9/23	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,0)	0.060	0.038	3.38	22.41	23.00	0.069	2022/9/23	
Back Side	20525/836.5	10M QPSK(1,0)	0.063	0.041	2.04	22.41	23.00	0.072	2022/9/23	18#
Left Side	20525/836.5	10M QPSK(1,0)	0.021	0.013	-2.37	22.41	23.00	0.024	2022/9/23	
Right Side	20525/836.5	10M QPSK(1,0)	0.021	0.014	-1.24	22.41	23.00	0.024	2022/9/23	
Bottom Side	20525/836.5	10M QPSK(1,0)	0.050	0.031	3.10	22.41	23.00	0.057	2022/9/23	
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.030	0.022	3.78	21.34	21.50	0.031	2022/9/23	
Back Side	20525/836.5	10M QPSK(25,24)	0.037	0.021	-1.09	21.34	21.50	0.038	2022/9/23	
Left Side	20525/836.5	10M QPSK(25,24)	0.012	0.007	-0.32	21.34	21.50	0.012	2022/9/23	
Right Side	20525/836.5	10M QPSK(25,24)	0.012	0.008	-1.90	21.34	21.50	0.012	2022/9/23	
Bottom Side	20525/836.5	10M QPSK(25,24)	0.027	0.016	4.87	21.34	21.50	0.028	2022/9/23	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test	Test	Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Head	channel /Freq.		(W/kg)		Drift(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,49)	0.569	0.434	-0.73	22.77	23.50	0.673	2022/9/22	19#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.298	0.218	-1.85	22.77	23.50	0.353	2022/9/22	
Right Cheek	21100/2535	20M QPSK(1,49)	0.503	0.380	2.91	22.77	23.50	0.595	2022/9/22	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.247	0.188	0.35	22.77	23.50	0.292	2022/9/22	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.285	0.230	4.64	21.80	22.00	0.298	2022/9/22	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.173	0.120	-2.45	21.80	22.00	0.181	2022/9/22	
Right Cheek	21100/2535	20M QPSK(50,24)	0.274	0.223	-3.83	21.80	22.00	0.287	2022/9/22	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.132	0.111	-2.57	21.80	22.00	0.138	2022/9/22	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.036	0.019	-3.88	22.77	23.50	0.043	2022/9/22	
Back Side	21100/2535	20M QPSK(1,49)	0.040	0.021	-0.22	22.77	23.50	0.047	2022/9/22	20#
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.021	0.010	2.19	21.80	22.00	0.022	2022/9/22	
Back Side	21100/2535	20M QPSK(50,24)	0.022	0.012	-2.30	21.80	22.00	0.023	2022/9/22	

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

Test	Test	Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Hotspot with 10mm	channel /Freq.		(W/kg)		Drift(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.036	0.019	-3.88	22.77	23.50	0.043	2022/9/22	
Back Side	21100/2535	20M QPSK(1,49)	0.040	0.021	-0.22	22.77	23.50	0.047	2022/9/22	20#
Left Side	21100/2535	20M QPSK(1,49)	0.027	0.014	-1.74	22.77	23.50	0.032	2022/9/22	
Right Side	21100/2535	20M QPSK(1,49)	0.012	0.010	-1.93	22.77	23.50	0.014	2022/9/22	
Bottom Side	21100/2535	20M QPSK(1,49)	0.025	0.013	3.82	22.77	23.50	0.030	2022/9/22	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.021	0.010	2.19	21.80	22.00	0.022	2022/9/22	
Back Side	21100/2535	20M QPSK(50,24)	0.022	0.012	-2.30	21.80	22.00	0.023	2022/9/22	
Left Side	21100/2535	20M QPSK(50,24)	0.014	0.007	0.00	21.80	22.00	0.015	2022/9/22	
Right Side	21100/2535	20M QPSK(50,24)	0.006	0.005	-2.21	21.80	22.00	0.006	2022/9/22	
Bottom Side	21100/2535	20M QPSK(50,24)	0.013	0.007	1.41	21.80	22.00	0.014	2022/9/22	

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,0)	0.030	0.025	0.77	22.38	23.00	0.035	2022/10/09	21#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.017	0.015	-0.21	22.38	23.00	0.020	2022/10/09	
Right	23095/707.5	10M	0.027	0.022	-2.30	22.38	23.00	0.031	2022/10/09	

Cheek		QPSK(1,0)								
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.014	0.012	2.77	22.38	23.00	0.016	2022/10/09	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,24)	0.015	0.014	0.99	21.51	22.00	0.017	2022/10/09	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.009	0.009	-3.13	21.51	22.00	0.010	2022/10/09	
Right Cheek	23095/707.5	10M QPSK(25,24)	0.014	0.013	-4.85	21.51	22.00	0.016	2022/10/09	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.008	0.006	1.62	21.51	22.00	0.009	2022/10/09	

NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.024	0.019	1.11	22.38	23.00	0.028	2022/10/09	
Back Side	23095/707.5	10M QPSK(1,0)	0.038	0.032	-1.54	22.38	23.00	0.044	2022/10/09	22#
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.013	0.010	0.76	21.51	22.00	0.015	2022/10/09	
Back Side	23095/707.5	10M QPSK(25,24)	0.020	0.016	3.01	21.51	22.00	0.022	2022/10/09	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.024	0.019	1.11	22.38	23.00	0.028	2022/10/09	
Back Side	23095/707.5	10M QPSK(1,0)	0.038	0.032	-1.54	22.38	23.00	0.044	2022/10/09	22#

Left Side	23095/707.5	10M QPSK(1,0)	0.024	0.020	3.06	22.38	23.00	0.028	2022/10/09	
Right Side	23095/707.5	10M QPSK(1,0)	0.021	0.017	2.23	22.38	23.00	0.024	2022/10/09	
Bottom Side	23095/707.5	10M QPSK(1,0)	0.030	0.025	0.83	22.38	23.00	0.035	2022/10/09	
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.013	0.010	0.76	21.51	22.00	0.015	2022/10/09	
Back Side	23095/707.5	10M QPSK(25,24)	0.020	0.016	3.01	21.51	22.00	0.022	2022/10/09	
Left Side	23095/707.5	10M QPSK(25,24)	0.014	0.010	-4.85	21.51	22.00	0.016	2022/10/09	
Right Side	23095/707.5	10M QPSK(25,24)	0.011	0.009	4.21	21.51	22.00	0.012	2022/10/09	
Bottom Side	23095/707.5	10M QPSK(25,24)	0.017	0.015	4.25	21.51	22.00	0.019	2022/10/09	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 13

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23230/782	10M QPSK(1,49)	0.028	0.024	-0.36	22.41	22.50	0.029	2022/10/09	23#
Left Tilt 15 Degree	23230/782	10M QPSK(1,49)	0.015	0.013	-3.54	22.41	22.50	0.015	2022/10/09	
Right Cheek	23230/782	10M QPSK(1,49)	0.025	0.021	0.95	22.41	22.50	0.026	2022/10/09	
Right Tilt 15 Degree	23230/782	10M QPSK(1,49)	0.011	0.009	3.07	22.41	22.50	0.011	2022/10/09	
50%RB										
Left Cheek	23230/782	10M QPSK(25,12)	0.016	0.014	0.81	21.46	21.50	0.016	2022/10/09	
Left Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.009	0.007	-4.29	21.46	21.50	0.009	2022/10/09	
Right Cheek	23230/782	10M	0.013	0.011	-2.01	21.46	21.50	0.013	2022/10/09	

		QPSK(25,12)								
Right Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.006	0.005	-0.86	21.46	21.50	0.006	2022/10/09	

NOTE: Head SAR test results of LTE Band13

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,49)	0.024	0.019	-1.88	22.41	22.50	0.025	2022/10/09	
Back Side	23230/782	10M QPSK(1,49)	0.034	0.027	0.88	22.41	22.50	0.035	2022/10/09	24#
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.013	0.010	4.44	21.46	21.50	0.013	2022/10/09	
Back Side	23230/782	10M QPSK(25,12)	0.017	0.014	-0.56	21.46	21.50	0.017	2022/10/09	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,49)	0.024	0.019	-1.88	22.41	22.50	0.025	2022/10/09	
Back Side	23230/782	10M QPSK(1,49)	0.034	0.027	0.88	22.41	22.50	0.035	2022/10/09	24#
Left Side	23230/782	10M QPSK(1,49)	0.024	0.018	-2.47	22.41	22.50	0.025	2022/10/09	
Right Side	23230/782	10M QPSK(1,49)	0.021	0.017	2.69	22.41	22.50	0.021	2022/10/09	
Bottom Side	23230/782	10M QPSK(1,49)	0.020	0.018	3.46	22.41	22.50	0.020	2022/10/09	
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.013	0.010	4.44	21.46	21.50	0.013	2022/10/09	
Back Side	23230/782	10M	0.017	0.014	-0.56	21.46	21.50	0.017	2022/10/09	

		QPSK(25,12)								
Left Side	23230/782	10M QPSK(25,12)	0.013	0.010	-0.84	21.46	21.50	0.013	2022/10/09	
Right Side	23230/782	10M QPSK(25,12)	0.011	0.010	-3.97	21.46	21.50	0.011	2022/10/09	
Bottom Side	23230/782	10M QPSK(25,12)	0.012	0.010	3.33	21.46	21.50	0.012	2022/10/09	

NOTE: Hospot SAR test results of LTE Band 13

10.1.12. SAR measurement Result of LTE Band 17

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23790/710	10M QPSK(1,24)	0.028	0.025	2.42	22.58	23.00	0.031	2022/10/09	25#
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.015	0.013	-0.11	22.58	23.00	0.017	2022/10/09	
Right Cheek	23790/710	10M QPSK(1,24)	0.026	0.022	-1.83	22.58	23.00	0.029	2022/10/09	
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.014	0.012	2.02	22.58	23.00	0.015	2022/10/09	
50%RB										
Left Cheek	23790/710	10M QPSK(25,12)	0.015	0.013	-1.31	21.59	22.00	0.016	2022/10/09	
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.008	0.007	-1.24	21.59	22.00	0.009	2022/10/09	
Right Cheek	23790/710	10M QPSK(25,12)	0.014	0.012	4.71	21.59	22.00	0.015	2022/10/09	
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.007	0.007	-1.09	21.59	22.00	0.008	2022/10/09	

NOTE: Head SAR test results of LTE Band17

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

1RB										
Front Side	23790/710	10M QPSK(1,24)	0.036	0.030	-0.96	22.58	23.00	0.040	2022/10/09	
Back Side	23790/710	10M QPSK(1,24)	0.038	0.032	3.14	22.58	23.00	0.042	2022/10/09	26#
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.020	0.017	3.97	21.59	22.00	0.022	2022/10/09	
Back Side	23790/710	10M QPSK(25,12)	0.021	0.017	-1.03	21.59	22.00	0.023	2022/10/09	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.036	0.030	-0.96	22.58	23.00	0.040	2022/10/09	
Back Side	23790/710	10M QPSK(1,24)	0.038	0.032	3.14	22.58	23.00	0.042	2022/10/09	26#
Left Side	23790/710	10M QPSK(1,24)	0.021	0.017	0.09	22.58	23.00	0.023	2022/10/09	
Right Side	23790/710	10M QPSK(1,24)	0.024	0.020	0.16	22.58	23.00	0.026	2022/10/09	
Bottom Side	23790/710	10M QPSK(1,24)	0.035	0.029	-2.26	22.58	23.00	0.039	2022/10/09	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.020	0.017	3.97	21.59	22.00	0.022	2022/10/09	
Back Side	23790/710	10M QPSK(25,12)	0.021	0.017	-1.03	21.59	22.00	0.023	2022/10/09	
Left Side	23790/710	10M QPSK(25,12)	0.011	0.009	-3.77	21.59	22.00	0.012	2022/10/09	
Right Side	23790/710	10M QPSK(25,12)	0.014	0.011	-3.78	21.59	22.00	0.015	2022/10/09	
Bottom Side	23790/710	10M QPSK(25,12)	0.020	0.015	-3.25	21.59	22.00	0.022	2022/10/09	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.13. SAR measurement Result of LTE Band 40(2305-2315)

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	38750/2310	10M QPSK(1,24)	0.166	0.099	-3.91	22.99	23.00	0.166	2022/9/28	27#
Left Tilt 15 Degree	38750/2310	10M QPSK(1,24)	0.099	0.059	1.06	22.99	23.00	0.099	2022/9/28	
Right Cheek	38750/2310	10M QPSK(1,24)	0.146	0.084	-1.27	22.99	23.00	0.146	2022/9/28	
Right Tilt 15 Degree	38750/2310	10M QPSK(1,24)	0.072	0.043	0.73	22.99	23.00	0.072	2022/9/28	
50%RB										
Left Cheek	38750/2310	10M QPSK(25,0)	0.084	0.052	2.43	21.95	22.00	0.085	2022/9/28	
Left Tilt 15 Degree	38750/2310	10M QPSK(25,0)	0.053	0.031	-4.99	21.95	22.00	0.054	2022/9/28	
Right Cheek	38750/2310	10M QPSK(25,0)	0.083	0.047	-0.66	21.95	22.00	0.084	2022/9/28	
Right Tilt 15 Degree	38750/2310	10M QPSK(25,0)	0.040	0.023	-4.77	21.95	22.00	0.040	2022/9/28	

NOTE: Head SAR test results of LTE Band40

Test Position of Body-Worn 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	38750/2310	10M QPSK(1,24)	0.132	0.069	3.06	22.99	23.00	0.132	2022/9/28	
Back Side	38750/2310	10M QPSK(1,24)	0.187	0.099	-2.43	22.99	23.00	0.187	2022/9/28	28#
50%RB										
Front Side	38750/2310	10M QPSK(25,0)	0.076	0.036	-4.27	21.95	22.00	0.077	2022/9/28	
Back Side	38750/2310	10M QPSK(25,0)	0.100	0.052	4.77	21.95	22.00	0.101	2022/9/28	

NOTE: Body-Worn SAR test results of LTE Band 40

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	38750/2310	10M QPSK(1,24)	0.132	0.069	3.06	22.99	23.00	0.132	2022/9/28	
Back Side	38750/2310	10M QPSK(1,24)	0.187	0.099	-2.43	22.99	23.00	0.187	2022/9/28	28#
Left Side	38750/2310	10M QPSK(1,24)	0.066	0.034	0.01	22.99	23.00	0.066	2022/9/28	
Right Side	38750/2310	10M QPSK(1,24)	0.060	0.030	3.93	22.99	23.00	0.060	2022/9/28	
Bottom Side	38750/2310	10M QPSK(1,24)	0.115	0.059	1.24	22.99	23.00	0.115	2022/9/28	
50%RB										
Front Side	38750/2310	10M QPSK(25,0)	0.076	0.036	-4.27	21.95	22.00	0.077	2022/9/28	
Back Side	38750/2310	10M QPSK(25,0)	0.100	0.052	4.77	21.95	22.00	0.101	2022/9/28	
Left Side	38750/2310	10M QPSK(25,0)	0.036	0.019	3.50	21.95	22.00	0.036	2022/9/28	
Right Side	38750/2310	10M QPSK(25,0)	0.031	0.017	-4.05	21.95	22.00	0.031	2022/9/28	
Bottom Side	38750/2310	10M QPSK(25,0)	0.064	0.035	-2.46	21.95	22.00	0.065	2022/9/28	

NOTE: Hotspot SAR test results of LTE Band 40

10.1.14. SAR measurement Result of LTE Band 40(2350-2360)

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	39200/2355	10M QPSK(1,49)	0.135	0.080	-0.71	22.77	23.00	0.142	2022/9/28	29#
Left Tilt 15	39200/2355	10M	0.073	0.042	2.52	22.77	23.00	0.077	2022/9/28	

Degree		QPSK(1,49)								
Right Cheek	39200/2355	10M QPSK(1,49)	0.123	0.070	3.50	22.77	23.00	0.130	2022/9/28	
Right Tilt 15 Degree	39200/2355	10M QPSK(1,49)	0.062	0.035	3.11	22.77	23.00	0.065	2022/9/28	
50%RB										
Left Cheek	39200/2355	10M QPSK(25,24)	0.076	0.044	-3.67	21.75	22.00	0.081	2022/9/28	
Left Tilt 15 Degree	39200/2355	10M QPSK(25,24)	0.038	0.024	3.26	21.75	22.00	0.040	2022/9/28	
Right Cheek	39200/2355	10M QPSK(25,24)	0.065	0.039	-3.84	21.75	22.00	0.069	2022/9/28	
Right Tilt 15 Degree	39200/2355	10M QPSK(25,24)	0.035	0.018	-4.99	21.75	22.00	0.037	2022/9/28	

NOTE: Head SAR test results of LTE Band40

Test Position of Body-Worn 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	39200/2355	10M QPSK(1,49)	0.216	0.104	-2.49	22.77	23.00	0.228	2022/9/28	
Back Side	39200/2355	10M QPSK(1,49)	0.315	0.160	-1.25	22.77	23.00	0.332	2022/9/28	30#
50%RB										
Front Side	39200/2355	10M QPSK(25,24)	0.120	0.055	4.25	21.75	22.00	0.127	2022/9/28	
Back Side	39200/2355	10M QPSK(25,24)	0.174	0.081	-3.93	21.75	22.00	0.184	2022/9/28	

NOTE: Body-Worn SAR test results of LTE Band 40

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front	39200/2355	10M	0.216	0.104	-2.49	22.77	23.00	0.228	2022/9/28	

Side		QPSK(1,49)								
Back Side	39200/2355	10M QPSK(1,49)	0.315	0.160	-1.25	22.77	23.00	0.332	2022/9/28	30#
Left Side	39200/2355	10M QPSK(1,49)	0.108	0.052	1.32	22.77	23.00	0.114	2022/9/28	
Right Side	39200/2355	10M QPSK(1,49)	0.102	0.050	-3.20	22.77	23.00	0.108	2022/9/28	
Bottom Side	39200/2355	10M QPSK(1,49)	0.180	0.089	0.19	22.77	23.00	0.190	2022/9/28	
50%RB										
Front Side	39200/2355	10M QPSK(25,24)	0.120	0.055	4.25	21.75	22.00	0.127	2022/9/28	
Back Side	39200/2355	10M QPSK(25,24)	0.174	0.081	-3.93	21.75	22.00	0.184	2022/9/28	
Left Side	39200/2355	10M QPSK(25,24)	0.057	0.026	4.94	21.75	22.00	0.060	2022/9/28	
Right Side	39200/2355	10M QPSK(25,24)	0.053	0.028	1.29	21.75	22.00	0.056	2022/9/28	
Bottom Side	39200/2355	10M QPSK(25,24)	0.103	0.053	-1.14	21.75	22.00	0.109	2022/9/28	

NOTE: Hotspot SAR test results of LTE Band 40

10.1.15. SAR measurement Result of LTE Band 41

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	40639/2594.9	20M QPSK(1,99)	0.164	0.096	-1.67	23.14	23.50	0.178	2022/9/22	31#
Left Tilt 15 Degree	40639/2594.9	20M QPSK(1,99)	0.082	0.047	-3.96	23.14	23.50	0.089	2022/9/22	
Right Cheek	40639/2594.9	20M QPSK(1,99)	0.141	0.079	3.31	23.14	23.50	0.153	2022/9/22	
Right Tilt 15 Degree	40639/2594.9	20M QPSK(1,99)	0.075	0.043	-2.92	23.14	23.50	0.081	2022/9/22	
50%RB										
Left	40639/2594.9	20M	0.094	0.056	-3.28	21.91	22.00	0.096	2022/9/22	

Cheek		QPSK(50,24)								
Left Tilt 15 Degree	40639/2594.9	20M QPSK(50,24)	0.046	0.024	0.23	21.91	22.00	0.047	2022/9/22	
Right Cheek	40639/2594.9	20M QPSK(50,24)	0.085	0.043	-4.87	21.91	22.00	0.087	2022/9/22	
Right Tilt 15 Degree	40639/2594.9	20M QPSK(50,24)	0.039	0.023	2.52	21.91	22.00	0.040	2022/9/22	

NOTE: Head SAR test results of LTE Band41

Test Position of Body-Worn 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	40639/2594.9	20M QPSK(1,99)	0.078	0.046	3.15	23.14	23.50	0.085	2022/9/22	
Back Side	40639/2594.9	20M QPSK(1,99)	0.097	0.060	-3.49	23.14	23.50	0.105	2022/9/22	32#
50%RB										
Front Side	40639/2594.9	20M QPSK(50,24)	0.043	0.026	0.75	21.91	22.00	0.044	2022/9/22	
Back Side	40639/2594.9	20M QPSK(50,24)	0.054	0.033	4.37	21.91	22.00	0.055	2022/9/22	

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

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40639/2594.9	20M QPSK(1,99)	0.078	0.046	3.15	23.14	23.50	0.085	2022/9/22	
Back Side	40639/2594.9	20M QPSK(1,99)	0.097	0.060	-3.49	23.14	23.50	0.105	2022/9/22	32#
Left Side	40639/2594.9	20M QPSK(1,99)	0.036	0.022	-2.58	23.14	23.50	0.039	2022/9/22	
Right Side	40639/2594.9	20M QPSK(1,99)	0.042	0.025	-1.60	23.14	23.50	0.046	2022/9/22	
Bottom Side	40639/2594.9	20M QPSK(1,99)	0.055	0.034	3.66	23.14	23.50	0.060	2022/9/22	

50%RB										
Front Side	40639/2594.9	20M QPSK(50,24)	0.043	0.026	0.75	21.91	22.00	0.044	2022/9/22	
Back Side	40639/2594.9	20M QPSK(50,24)	0.054	0.033	4.37	21.91	22.00	0.055	2022/9/22	
Left Side	40639/2594.9	20M QPSK(50,24)	0.021	0.012	-3.99	21.91	22.00	0.021	2022/9/22	
Right Side	40639/2594.9	20M QPSK(50,24)	0.023	0.014	2.60	21.91	22.00	0.023	2022/9/22	
Bottom Side	40639/2594.9	20M QPSK(50,24)	0.029	0.019	3.35	21.91	22.00	0.030	2022/9/22	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.16. SAR measurement Result of LTE Band 66

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	132322/1745	20M QPSK(1,99)	0.591	0.376	0.28	22.70	23.50	0.711	2022/9/21	33#
Left Tilt 15 Degree	132322/1745	20M QPSK(1,99)	0.349	0.222	0.68	22.70	23.50	0.420	2022/9/21	
Right Cheek	132322/1745	20M QPSK(1,99)	0.517	0.312	-2.17	22.70	23.50	0.622	2022/9/21	
Right Tilt 15 Degree	132322/1745	20M QPSK(1,99)	0.267	0.168	-2.69	22.70	23.50	0.321	2022/9/21	
50%RB										
Left Cheek	132322/1745	20M QPSK(50,49)	0.324	0.224	0.66	21.67	22.00	0.350	2022/9/21	
Left Tilt 15 Degree	132322/1745	20M QPSK(50,49)	0.191	0.120	-1.86	21.67	22.00	0.206	2022/9/21	
Right Cheek	132322/1745	20M QPSK(50,49)	0.294	0.178	3.14	21.67	22.00	0.317	2022/9/21	
Right Tilt 15 Degree	132322/1745	20M QPSK(50,49)	0.160	0.096	2.27	21.67	22.00	0.173	2022/9/21	

NOTE: Head SAR test results of LTE Band66

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,99)	0.408	0.228	1.36	22.70	23.50	0.491	2022/9/21	
Back Side	132322/1745	20M QPSK(1,99)	0.663	0.382	-3.04	22.70	23.50	0.797	2022/9/21	34#
50%RB										
Front Side	132322/1745	20M QPSK(50,49)	0.210	0.123	-2.44	21.67	22.00	0.227	2022/9/21	
Back Side	132322/1745	20M QPSK(50,49)	0.336	0.228	-2.62	21.67	22.00	0.363	2022/9/21	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,99)	0.408	0.228	1.36	22.70	23.50	0.491	2022/9/21	
Back Side	132322/1745	20M QPSK(1,99)	0.663	0.382	-3.04	22.70	23.50	0.797	2022/9/21	34#
Left Side	132322/1745	20M QPSK(1,99)	0.201	0.111	2.94	22.70	23.50	0.242	2022/9/21	
Right Side	132322/1745	20M QPSK(1,99)	0.213	0.123	2.21	22.70	23.50	0.256	2022/9/21	
Bottom Side	132322/1745	20M QPSK(1,99)	0.350	0.194	-3.06	22.70	23.50	0.421	2022/9/21	
50%RB										
Front Side	132322/1745	20M QPSK(50,49)	0.210	0.123	-2.44	21.67	22.00	0.227	2022/9/21	
Back Side	132322/1745	20M QPSK(50,49)	0.336	0.228	-2.62	21.67	22.00	0.363	2022/9/21	
Left Side	132322/1745	20M QPSK(50,49)	0.101	0.063	-1.56	21.67	22.00	0.109	2022/9/21	
Right Side	132322/1745	20M QPSK(50,49)	0.108	0.070	1.15	21.67	22.00	0.117	2022/9/21	

Bottom Side	132322/1745	20M QPSK(50,49)	0.193	0.103	3.94	21.67	22.00	0.208	2022/9/21	
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NOTE: Hotspot SAR test results of LTE Band 66

10.1.17. SAR measurement Result of WLAN 2.4G

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	6/2437	802.11b	0.182	0.078	-3.53	18.78	19.00	0.191	2022/9/24	11#
Left Tilt 15 Degree	6/2437	802.11b	0.095	0.040	-1.11	18.78	19.00	0.100	2022/9/24	
Right Cheek	6/2437	802.11b	0.157	0.064	2.71	18.78	19.00	0.165	2022/9/24	
Right Tilt 15 Degree	6/2437	802.11b	0.085	0.035	-3.08	18.78	19.00	0.089	2022/9/24	

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.114	0.060	3.37	18.78	19.00	0.120	2022/9/24	
Back Side	6/2437	802.11b	0.145	0.077	-0.04	18.78	19.00	0.153	2022/9/24	12#

NOTE: Body-Worn SAR test results of WLAN 2.4G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.114	0.060	3.37	18.78	19.00	0.120	2022/9/24	
Back Side	6/2437	802.11b	0.145	0.077	-0.04	18.78	19.00	0.153	2022/9/24	12#
Right Side	6/2437	802.11b	0.051	0.026	-1.13	18.78	19.00	0.054	2022/9/24	
Top Side	6/2437	802.11b	0.048	0.025	0.35	18.78	19.00	0.050	2022/9/24	

NOTE: Hotspot SAR test results of WLAN 2.4G

10.2. Simultaneous Transmission Analysis

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 _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.711	0.191	0.902	N/A	N/A
	Left Tilt 15 Degree	0.420	0.100	0.520	N/A	N/A
	Right Cheek	0.622	0.165	0.787	N/A	N/A
	Right Tilt 15 Degree	0.321	0.089	0.410	N/A	N/A
Body-Worn	Front Side	0.519	0.120	0.639	N/A	N/A
	Back Side	0.817	0.153	0.970	N/A	N/A
Hotspot	Front Side	0.519	0.120	0.639	N/A	N/A
	Back Side	0.817	0.153	0.970	N/A	N/A
	Left Side	0.250	N/A	0.250	N/A	N/A
	Right Side	0.256	0.054	0.310	N/A	N/A
	Top Side	N/A	0.050	0.050	N/A	N/A
	Bottom Side	0.421	N/A	0.421	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.711	0.265	0.976	N/A	N/A
	Left Tilt 15 Degree	0.420	0.265	0.685	N/A	N/A
	Right Cheek	0.622	0.265	0.887	N/A	N/A
	Right Tilt 15 Degree	0.321	0.265	0.586	N/A	N/A
Body-Worn	Front Side	0.519	0.132	0.651	N/A	N/A
	Back Side	0.817	0.132	0.949	N/A	N/A
Hotspot	Front Side	0.519	0.132	0.651	N/A	N/A
	Back Side	0.817	0.132	0.949	N/A	N/A
	Left Side	0.250	N/A	0.250	N/A	N/A
	Right Side	0.256	0.132	0.388	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A

	Bottom Side	0.421	N/A	0.421	N/A	N/A
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11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
MEASUREMENT 3 System Performance Check - 1800MHz
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MEASUREMENT 5 System Performance Check - 2300MHz
MEASUREMENT 6 System Performance Check - 2450MHz
MEASUREMENT 7 System Performance Check - 2600MHz

MEASUREMENT 1

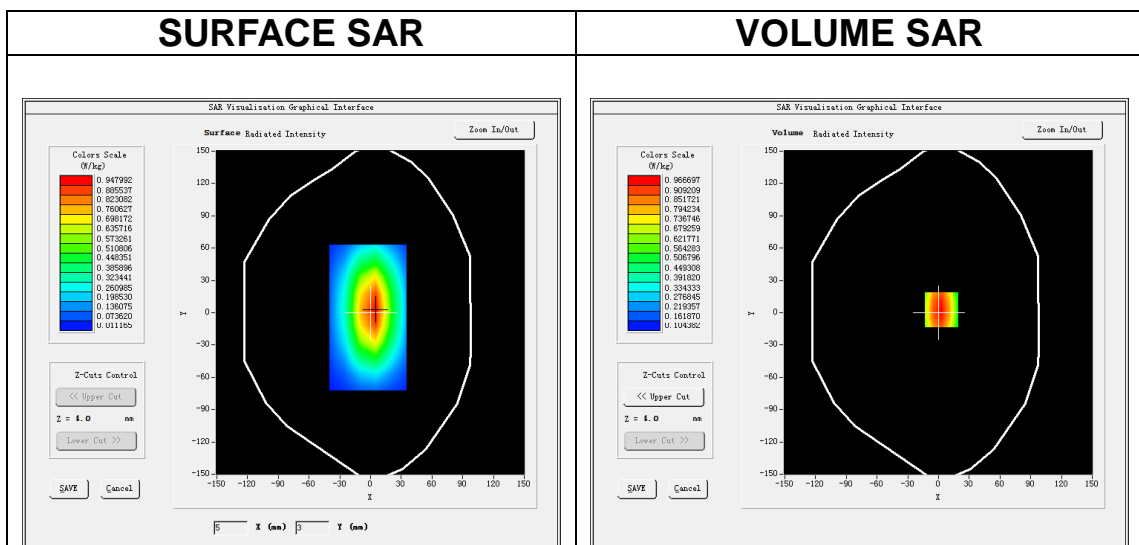
Date of measurement: 9/10/2022

A. Experimental conditions.

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

B. SAR Measurement Results

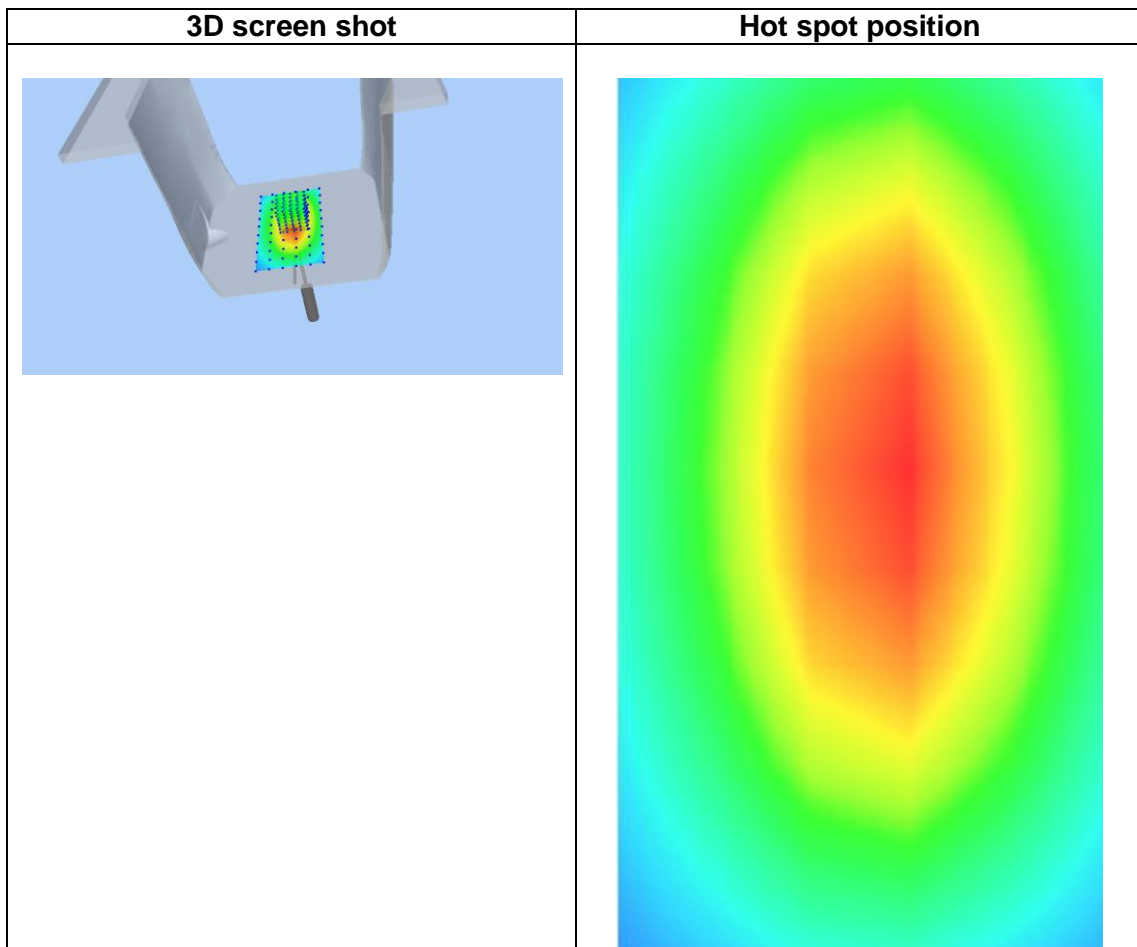
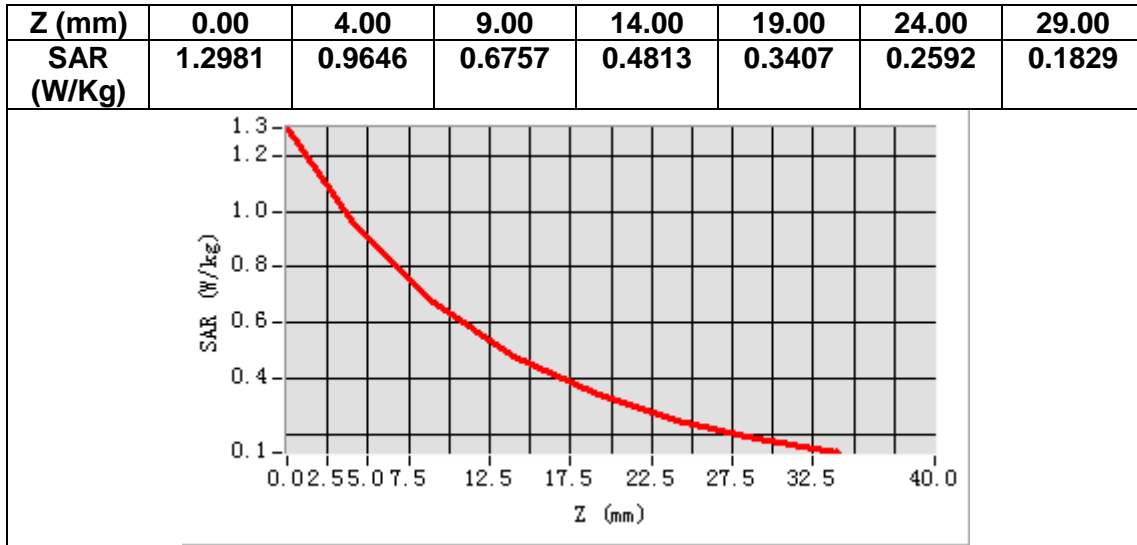
Frequency (MHz)	750.000000
Relative permittivity (real part)	40.218602
Relative permittivity (imaginary part)	21.274440
Conductivity (S/m)	0.886435
Variation (%)	-2.360000



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.595043
SAR 1g (W/Kg)	0.873195



MEASUREMENT 2

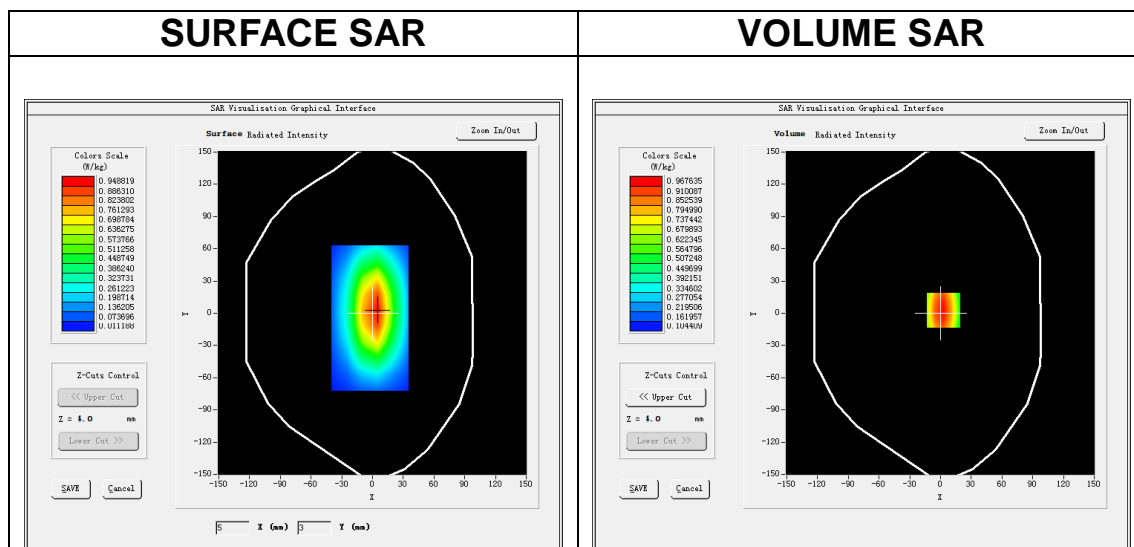
Date of measurement: 23/9/2022

A. Experimental conditions.

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

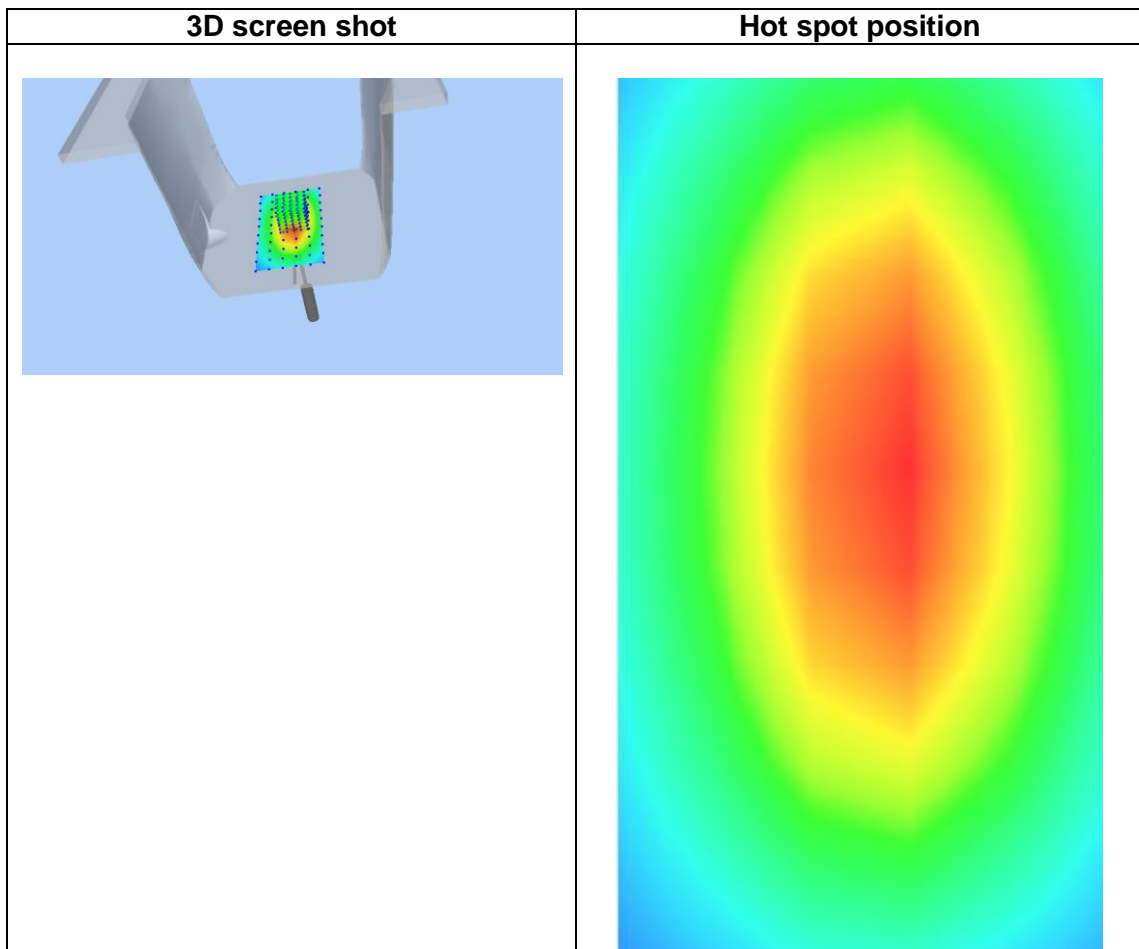
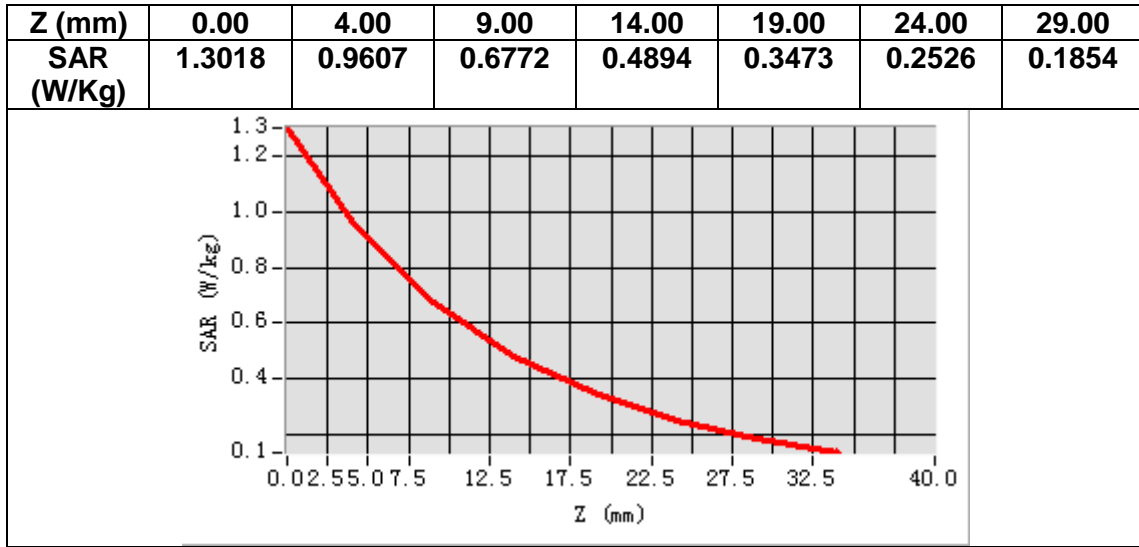
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.373150
Relative permittivity (imaginary part)	19.921989
Conductivity (S/m)	0.924159
Variation (%)	0.210000



Maximum location: X=3.00, Y=3.00
SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.616270
SAR 1g (W/Kg)	1.029010



MEASUREMENT 3

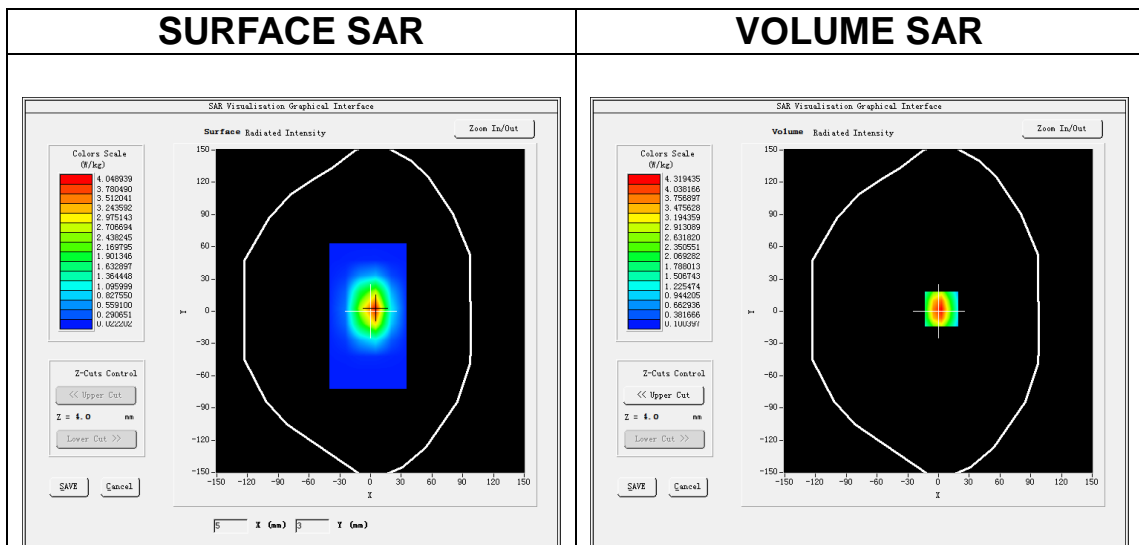
Date of measurement: 21/9/2022

A. Experimental conditions.

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

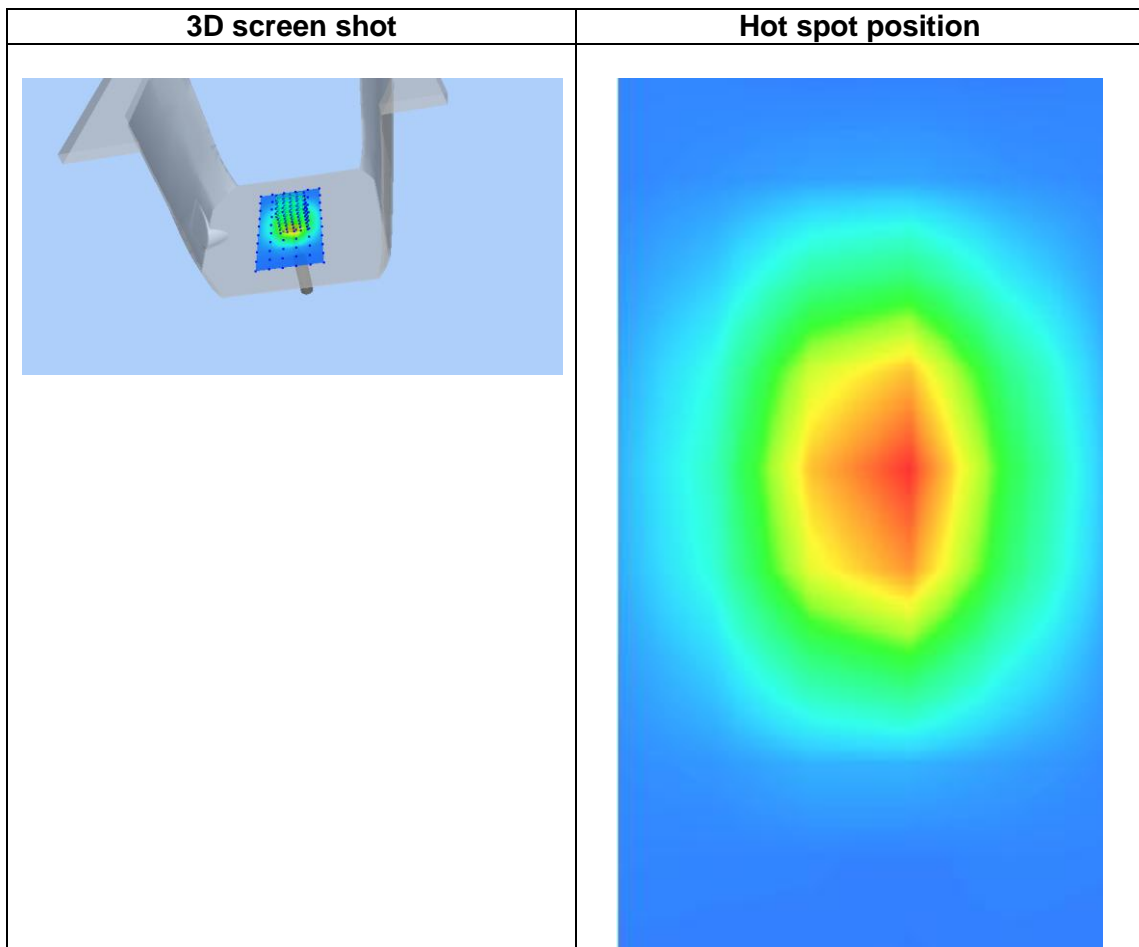
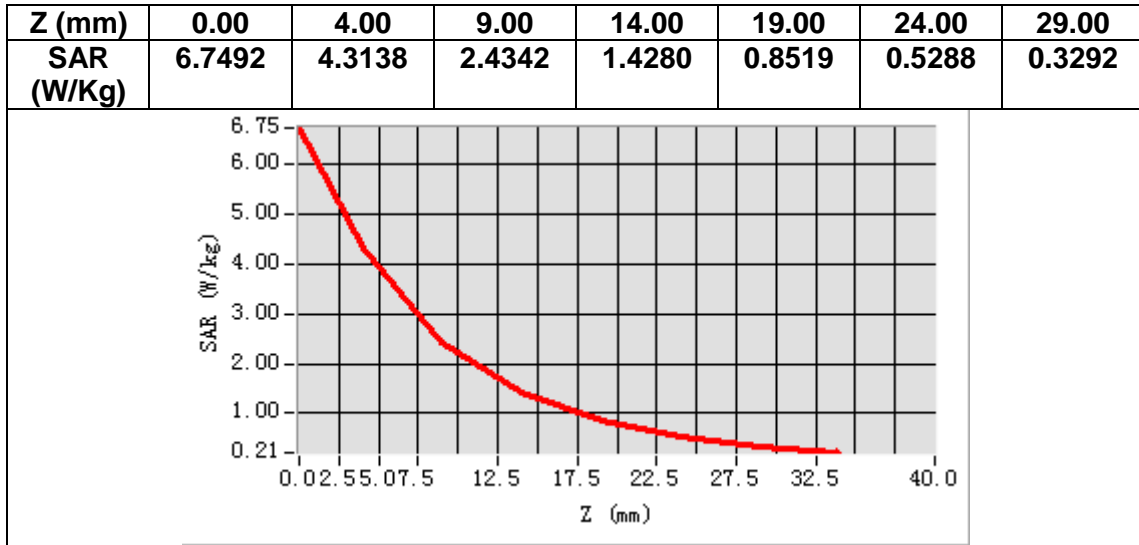
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.677062
Relative permittivity (imaginary part)	13.847581
Conductivity (S/m)	1.384758
Variation (%)	0.370000



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

SAR 10g (W/Kg)	1.998269
SAR 1g (W/Kg)	3.925108



MEASUREMENT 4

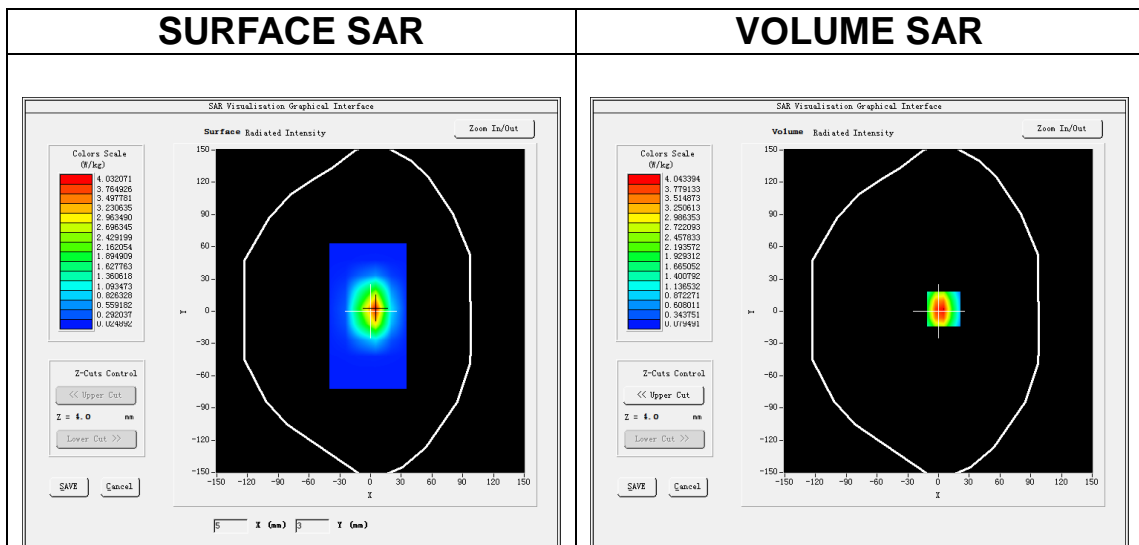
Date of measurement: 8/10/2022

A. Experimental conditions.

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

B. SAR Measurement Results

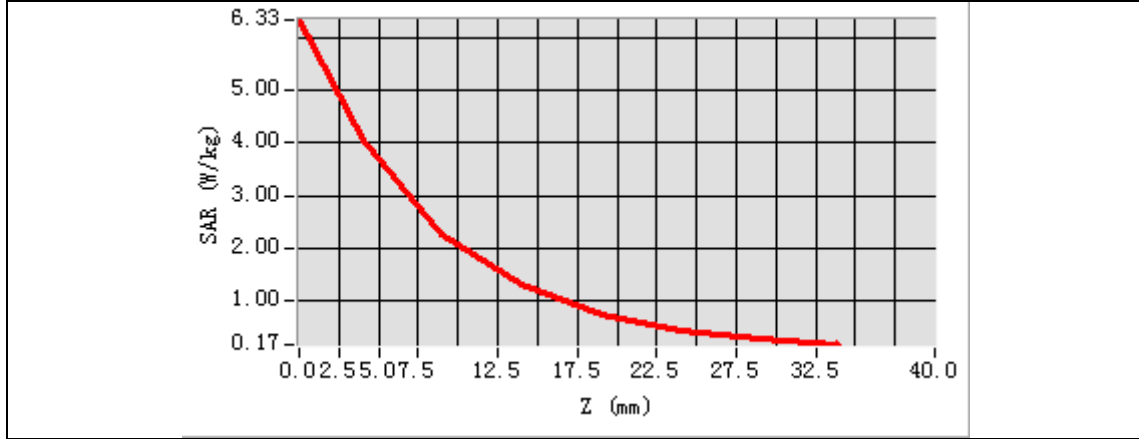
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.348065
Relative permittivity (imaginary part)	13.783294
Conductivity (S/m)	1.454903
Variation (%)	-2.700000

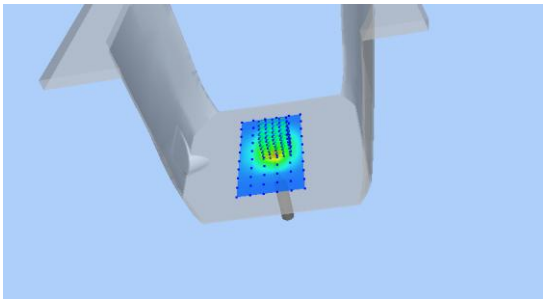
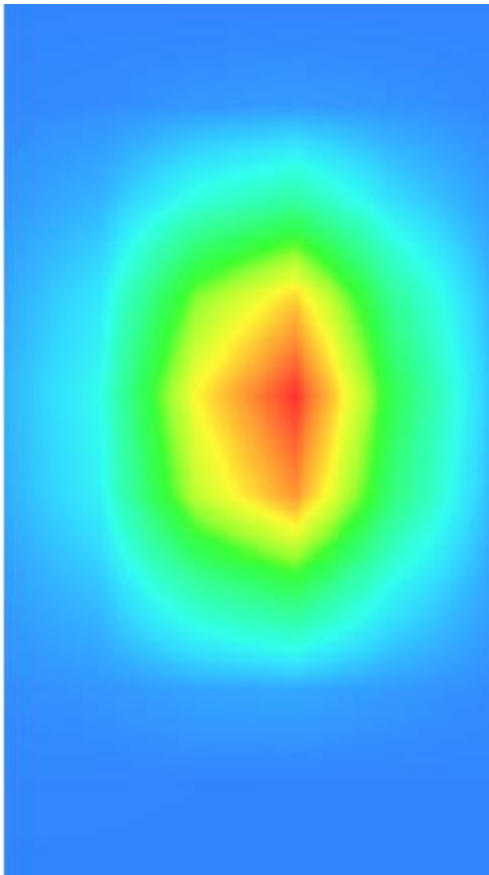


Maximum location: X=5.00, Y=2.00
SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	1.912143
SAR 1g (W/Kg)	4.373214

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.3226	4.0435	2.2695	1.3097	0.7647	0.4554	0.2700



3D screen shot	Hot spot position
	

MEASUREMENT 5

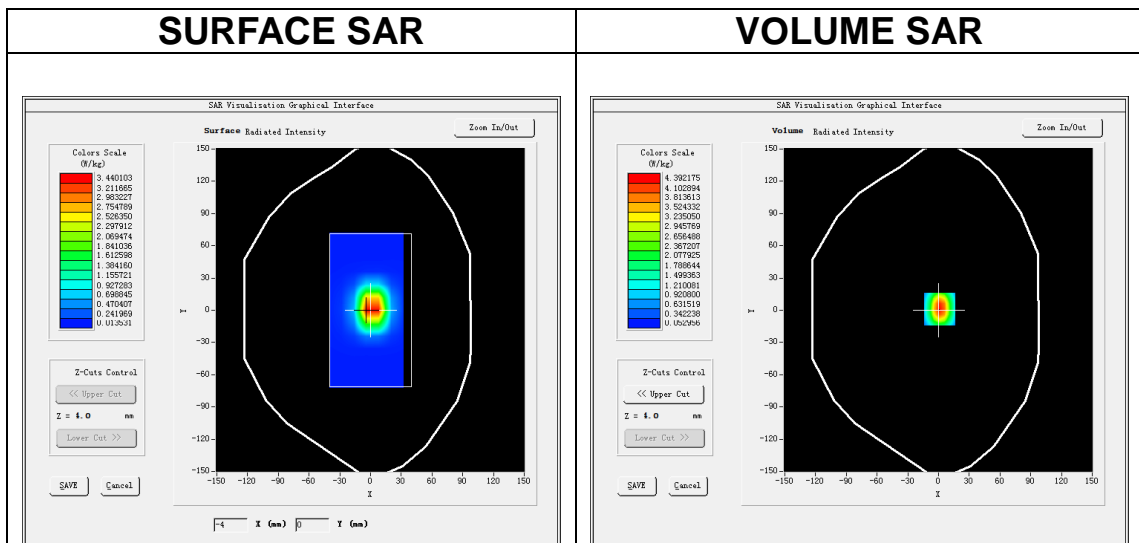
Date of measurement: 28/9/2022

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2300</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.92</u>

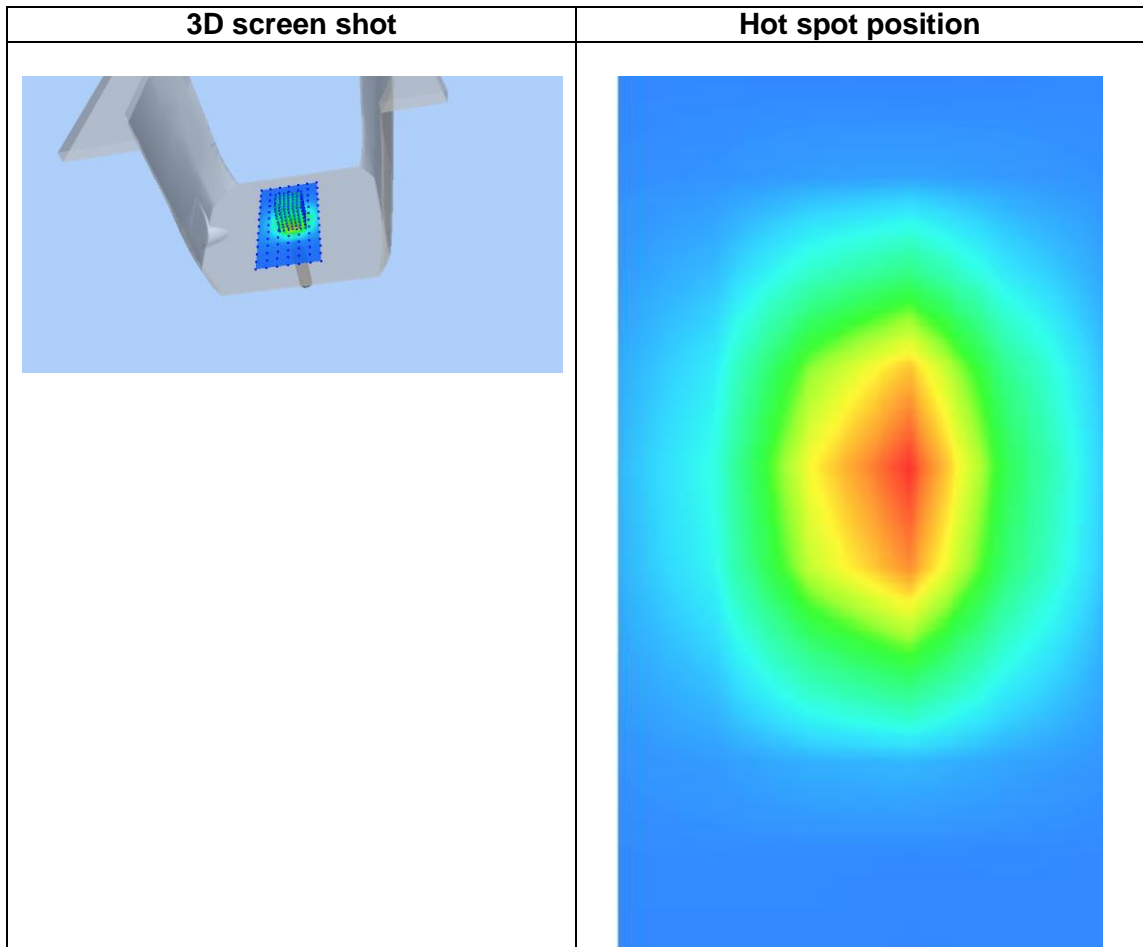
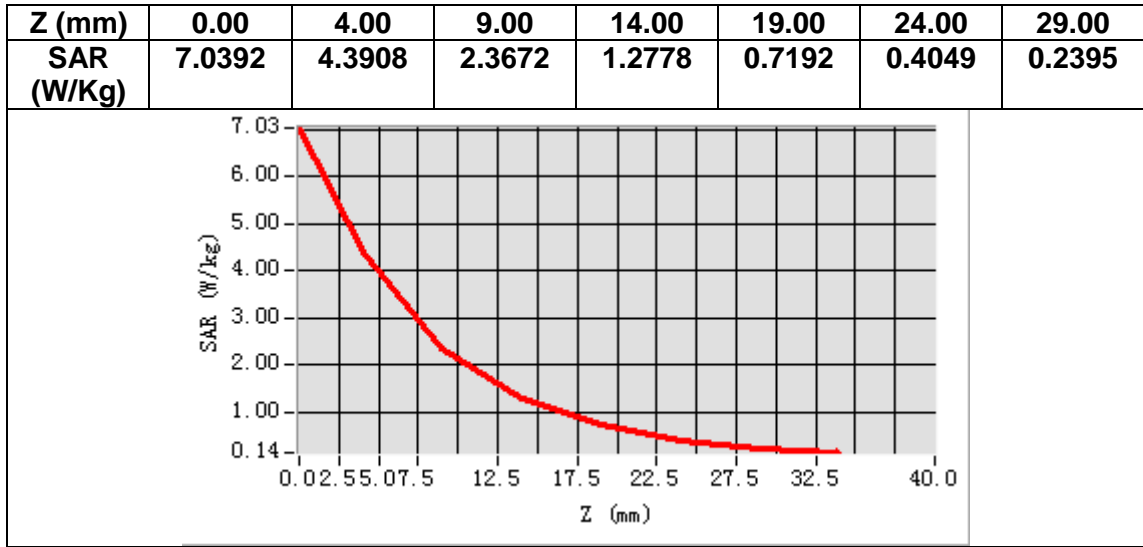
B. SAR Measurement Results

Frequency (MHz)	2300.000000
Relative permittivity (real part)	38.071300
Relative permittivity (imaginary part)	13.274199
Conductivity (S/m)	1.696148
Variation (%)	-2.750000



Maximum location: X=1.00, Y=1.00
SAR Peak: 7.04 W/kg

SAR 10g (W/Kg)	2.461354
SAR 1g (W/Kg)	4.693378



MEASUREMENT 6

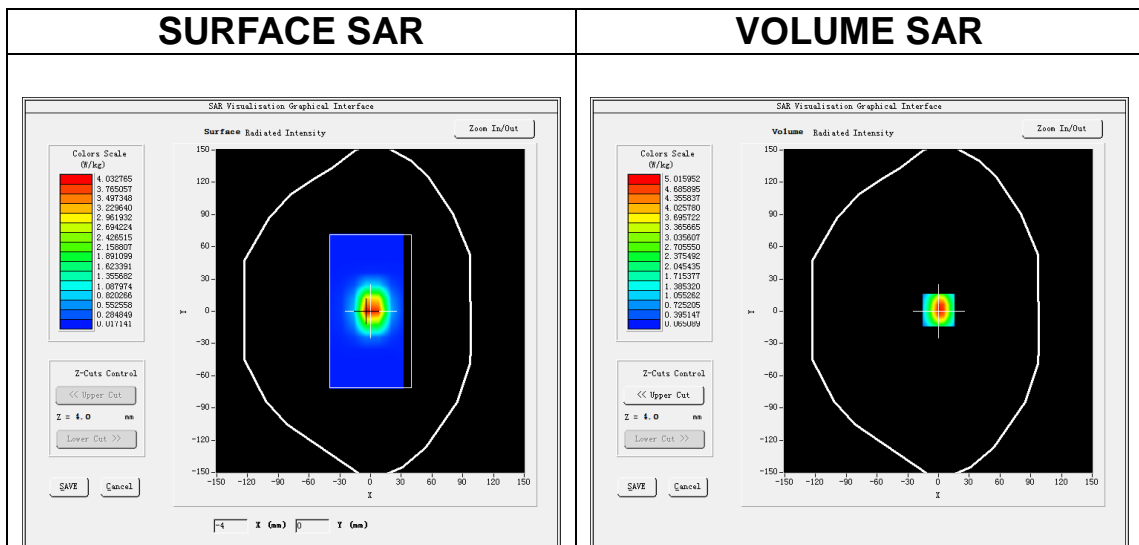
Date of measurement: 24/9/2022

A. Experimental conditions.

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

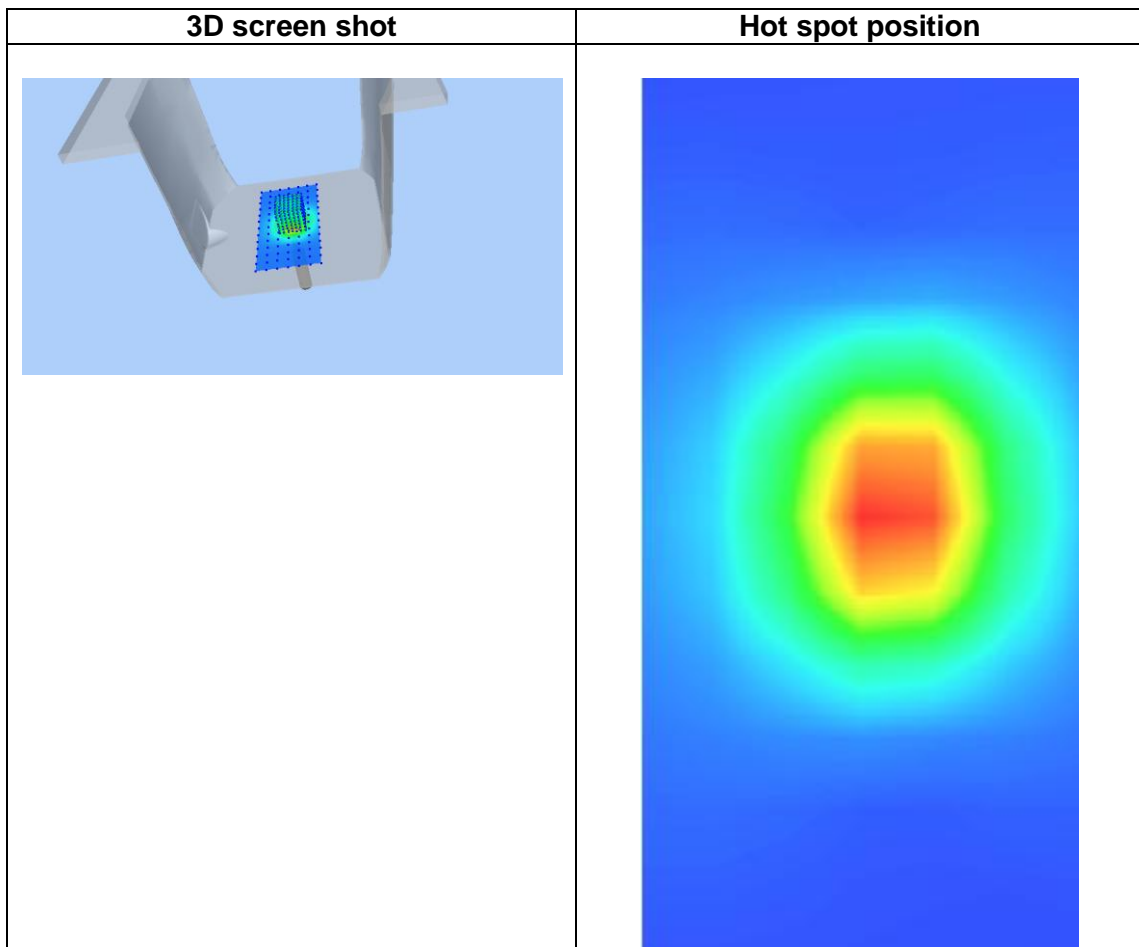
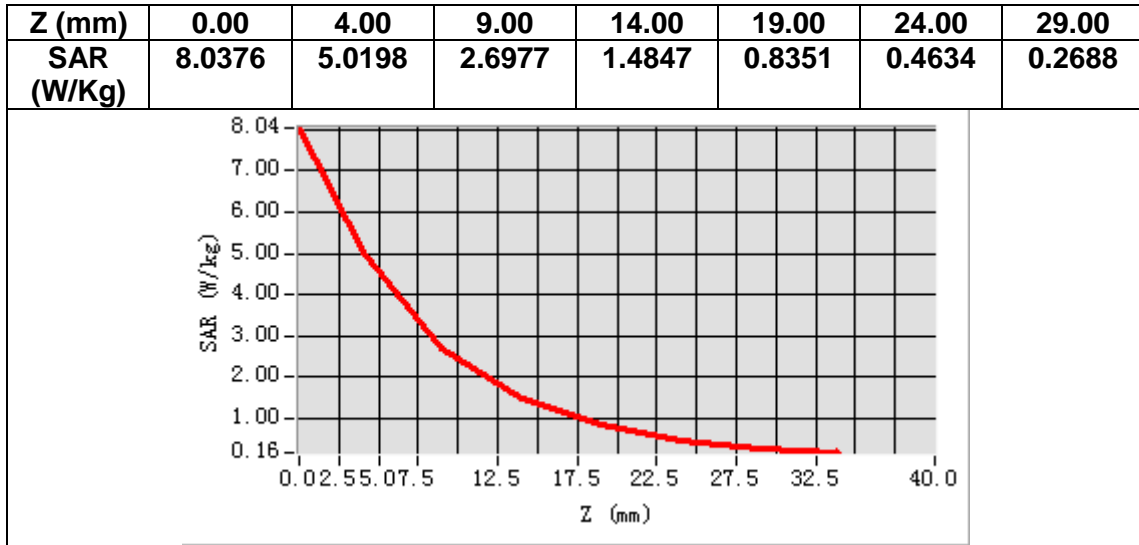
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.794313
Relative permittivity (imaginary part)	13.030085
Conductivity (S/m)	1.773539
Variation (%)	-2.770000



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

SAR 10g (W/Kg)	2.569195
SAR 1g (W/Kg)	5.821347



MEASUREMENT 7

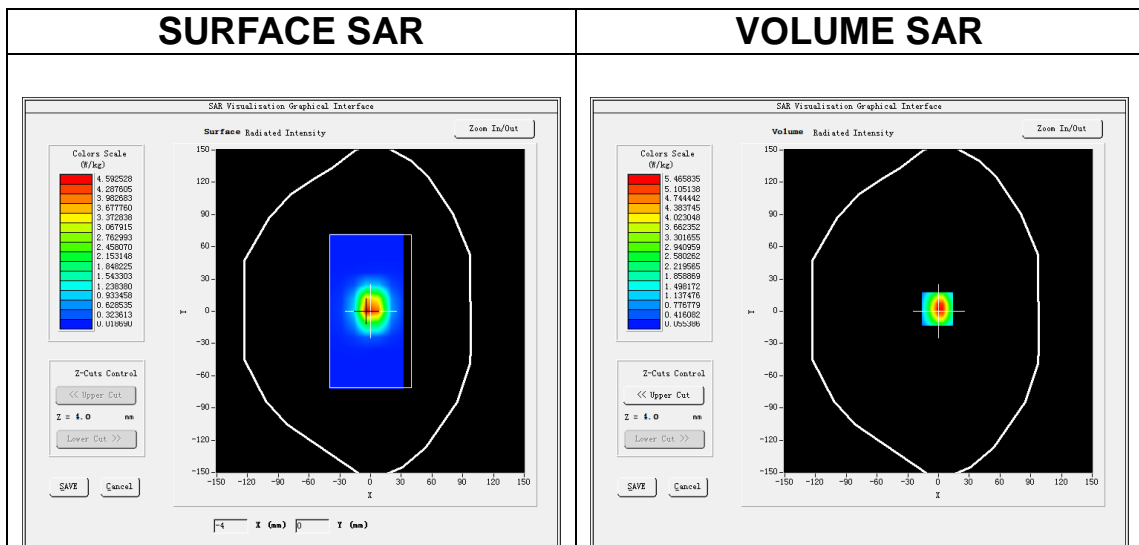
Date of measurement: 22/9/2022

A. Experimental conditions.

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

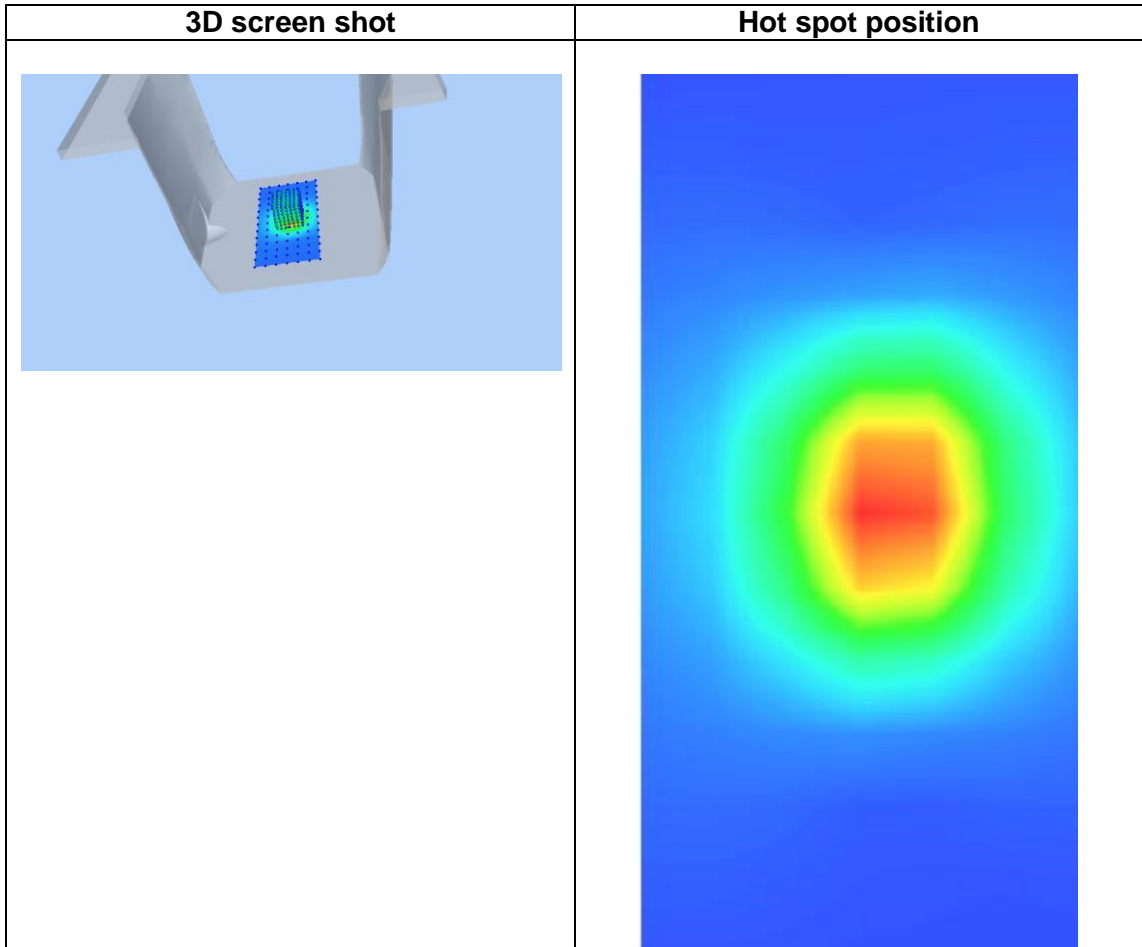
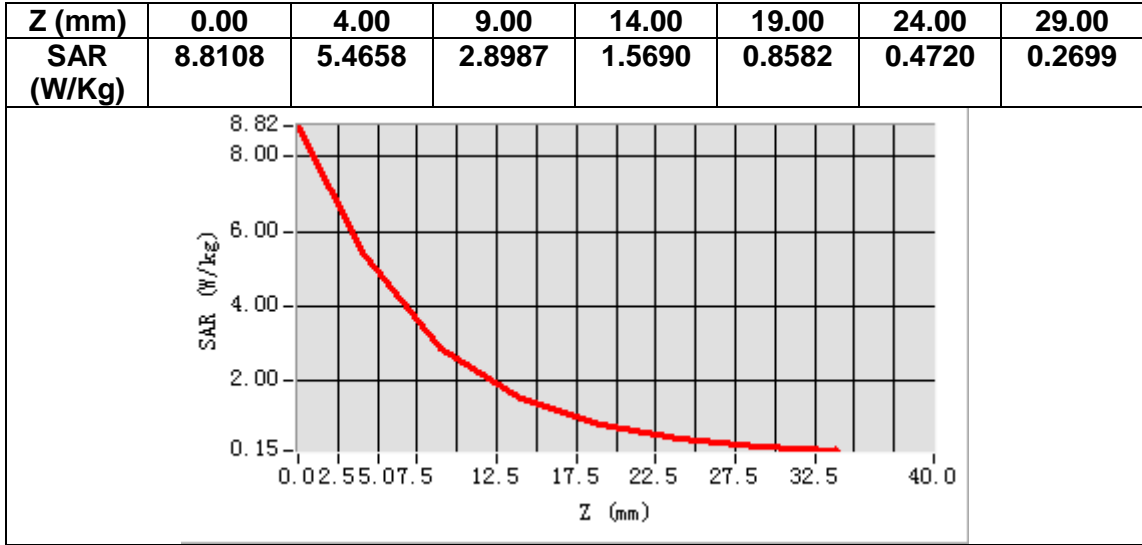
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	37.685852
Relative permittivity (imaginary part)	13.243335
Conductivity (S/m)	1.912926
Variation (%)	-1.530000



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

SAR 10g (W/Kg)	2.254153
SAR 1g (W/Kg)	5.628021



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

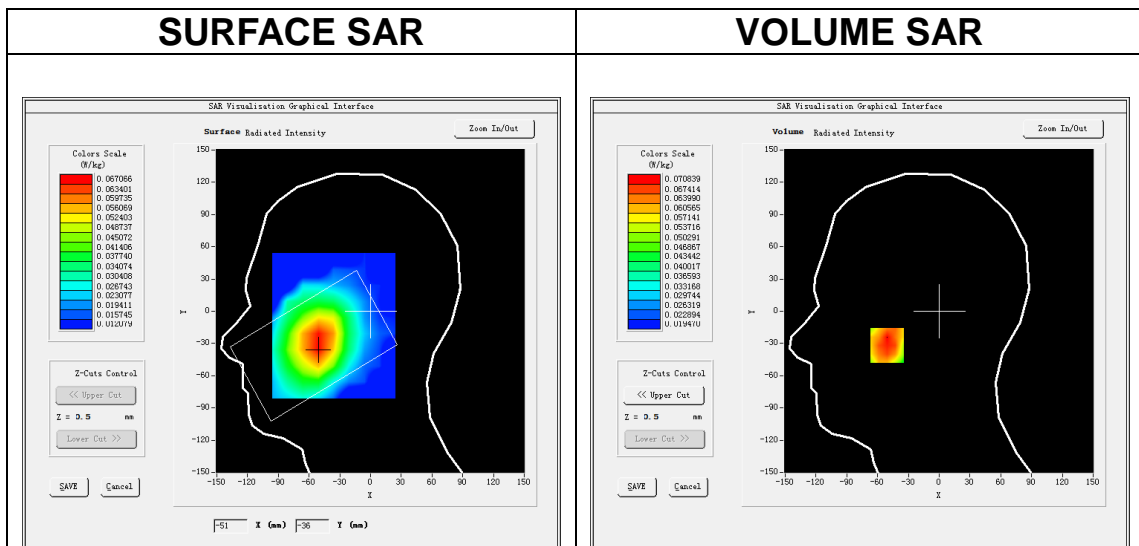
Date of measurement: 23/9/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.7)</u>
ConvF	<u>1.50</u>

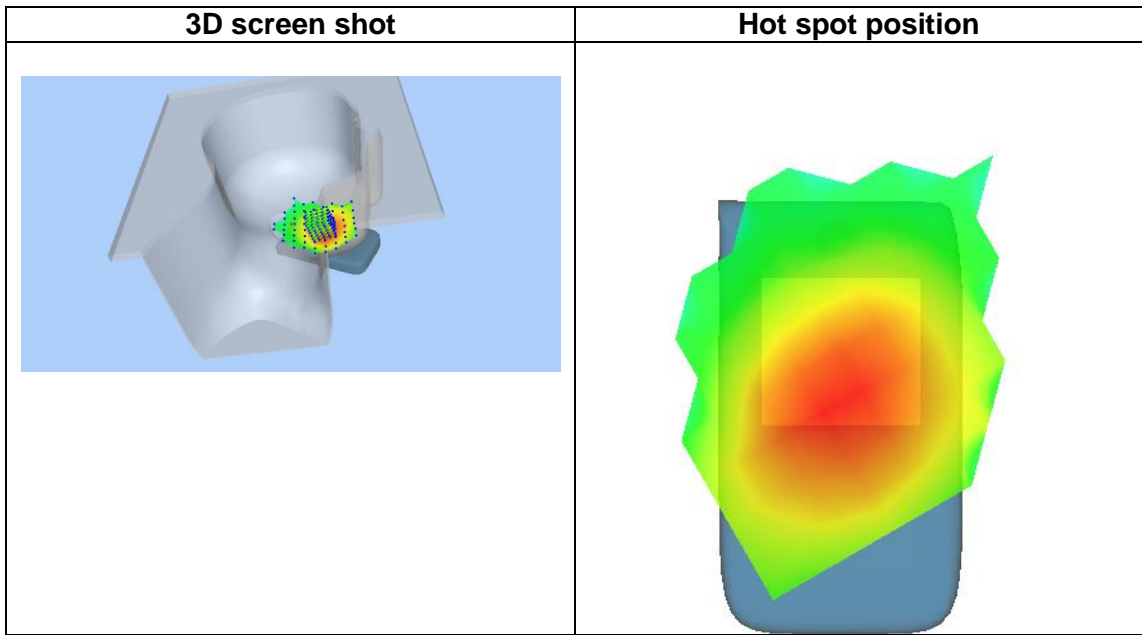
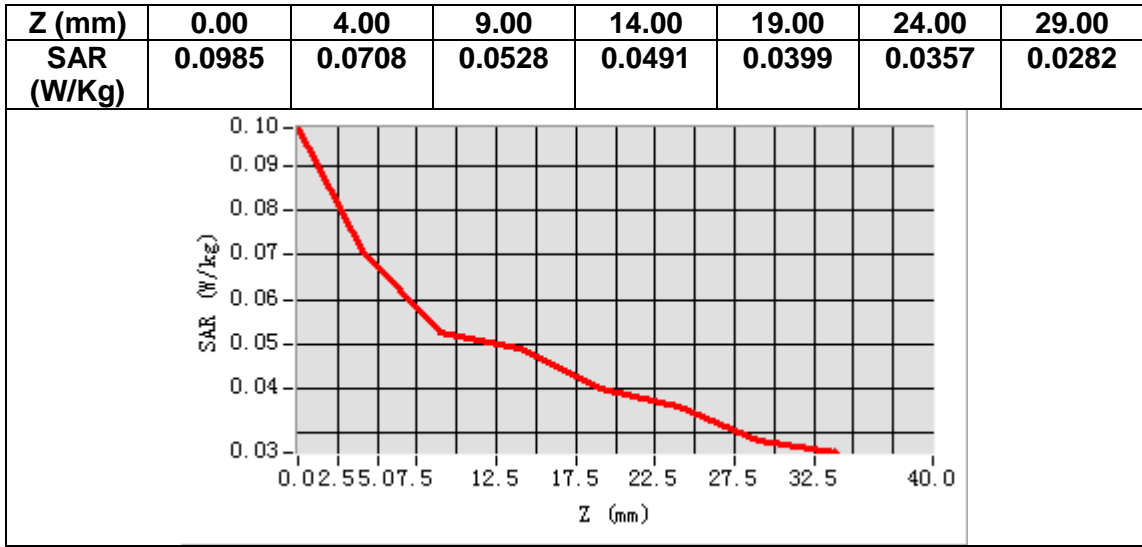
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.288811
Relative permittivity (imaginary part)	19.947828
Conductivity (S/m)	0.926909
Variation (%)	-2.620000



Maximum location: X=-51.00, Y=-32.00
SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.055145
SAR 1g (W/Kg)	0.069749



MEASUREMENT 2

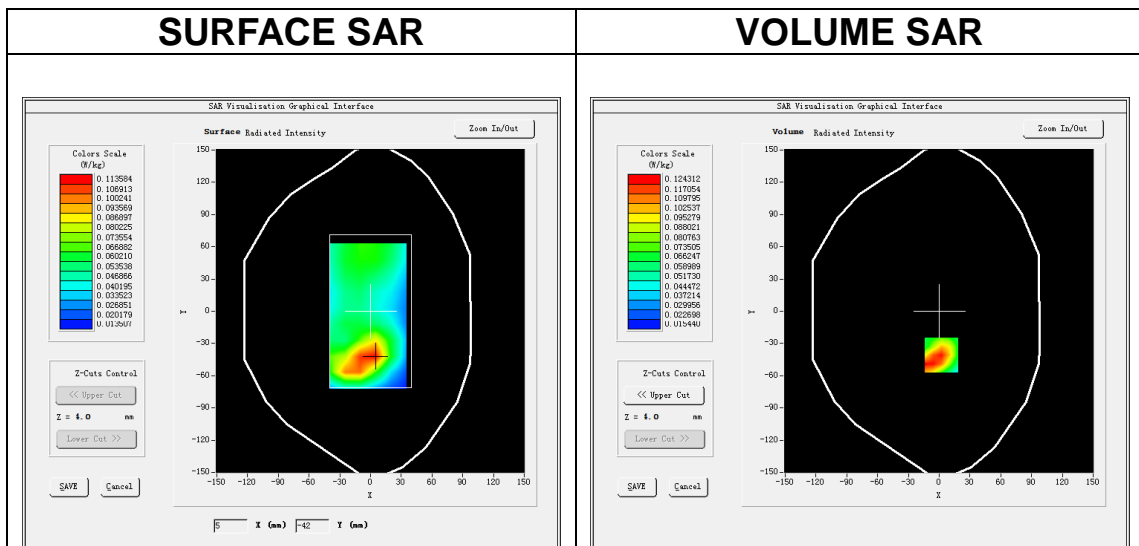
Date of measurement: 23/9/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.7)</u>
ConvF	<u>1.50</u>

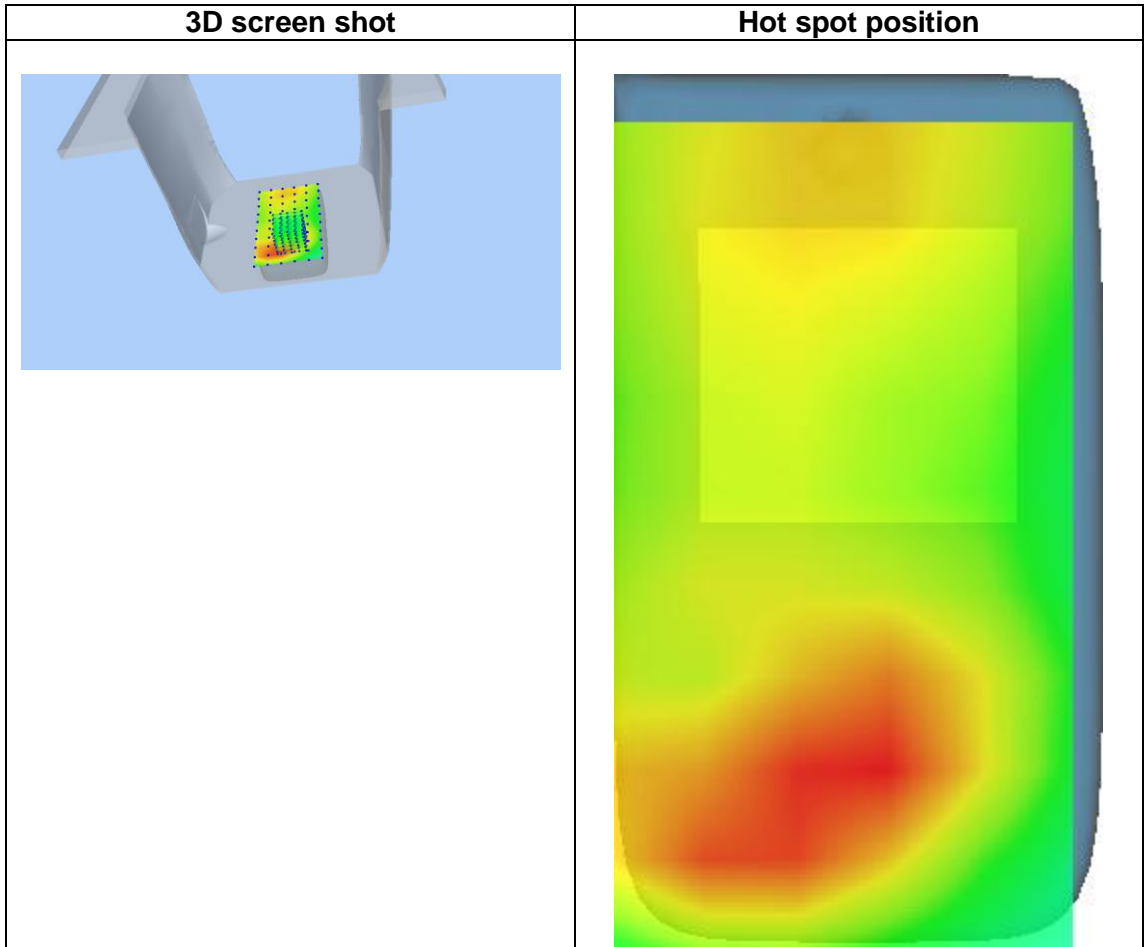
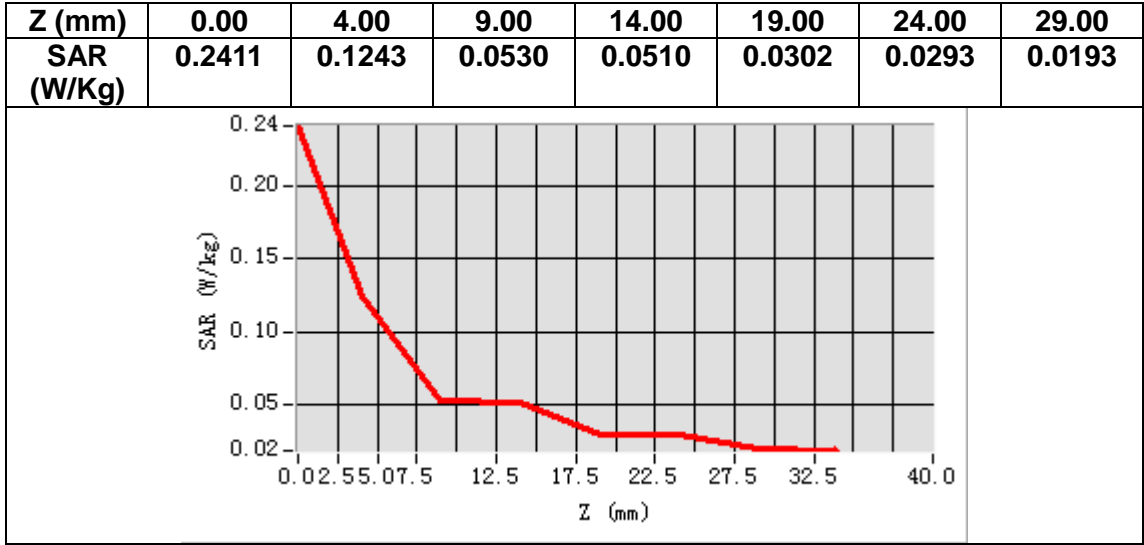
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.288811
Relative permittivity (imaginary part)	19.947828
Conductivity (S/m)	0.926909
Variation (%)	2.020000



Maximum location: X=2.00, Y=-41.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.074135
SAR 1g (W/Kg)	0.122550



MEASUREMENT 3

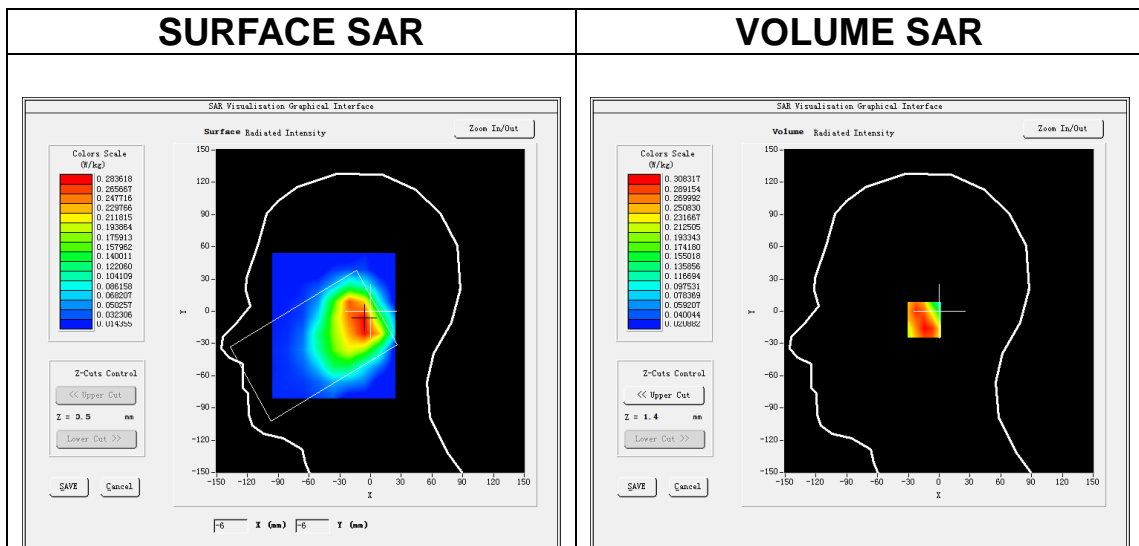
Date of measurement: 8/10/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>GSM1900</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.7)</u>
ConvF	<u>1.91</u>

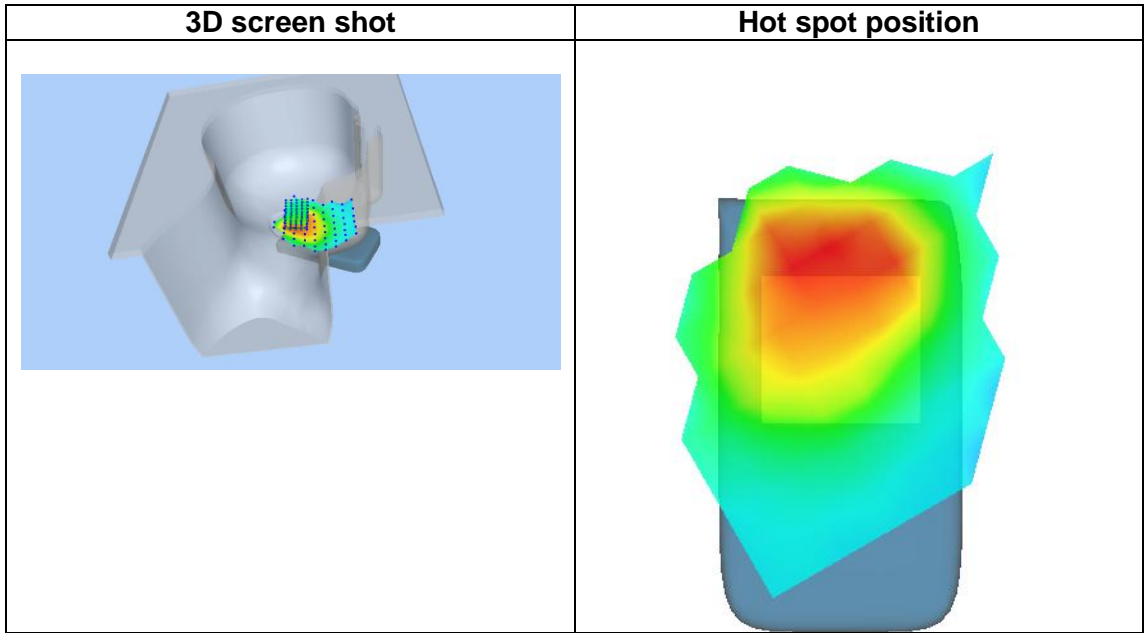
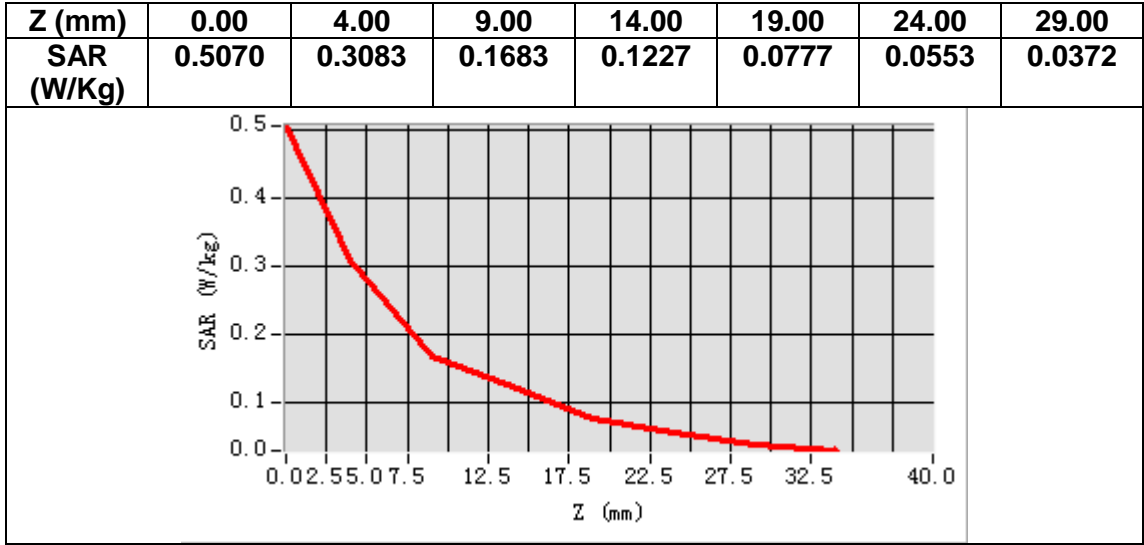
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.434464
Relative permittivity (imaginary part)	13.801094
Conductivity (S/m)	1.441448
Variation (%)	-2.840000



Maximum location: X=-8.00, Y=-8.00
SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.183920
SAR 1g (W/Kg)	0.302244



MEASUREMENT 4

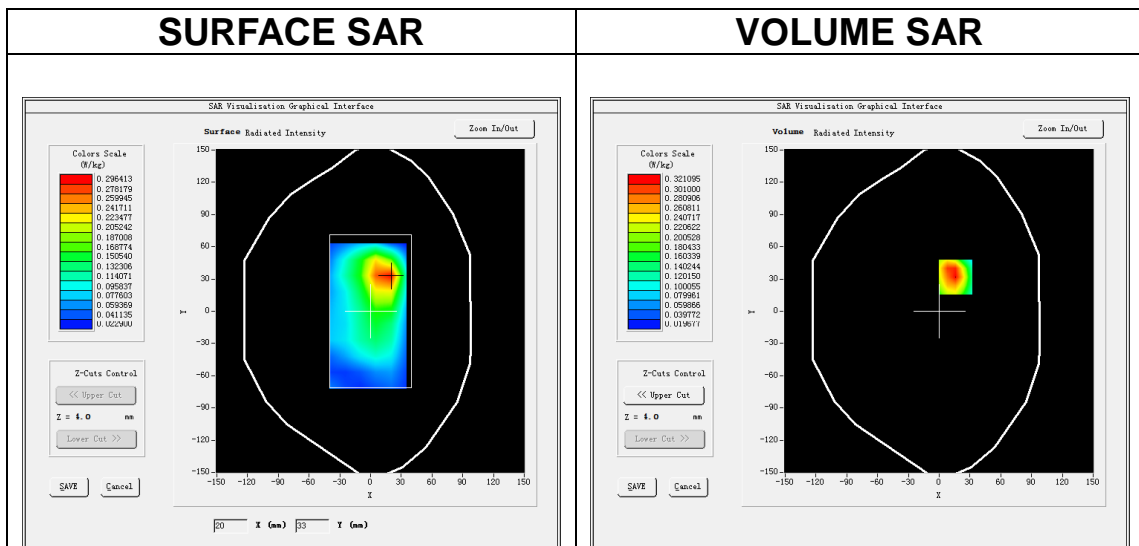
Date of measurement: 8/10/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>GSM1900</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.7)</u>
ConvF	<u>1.91</u>

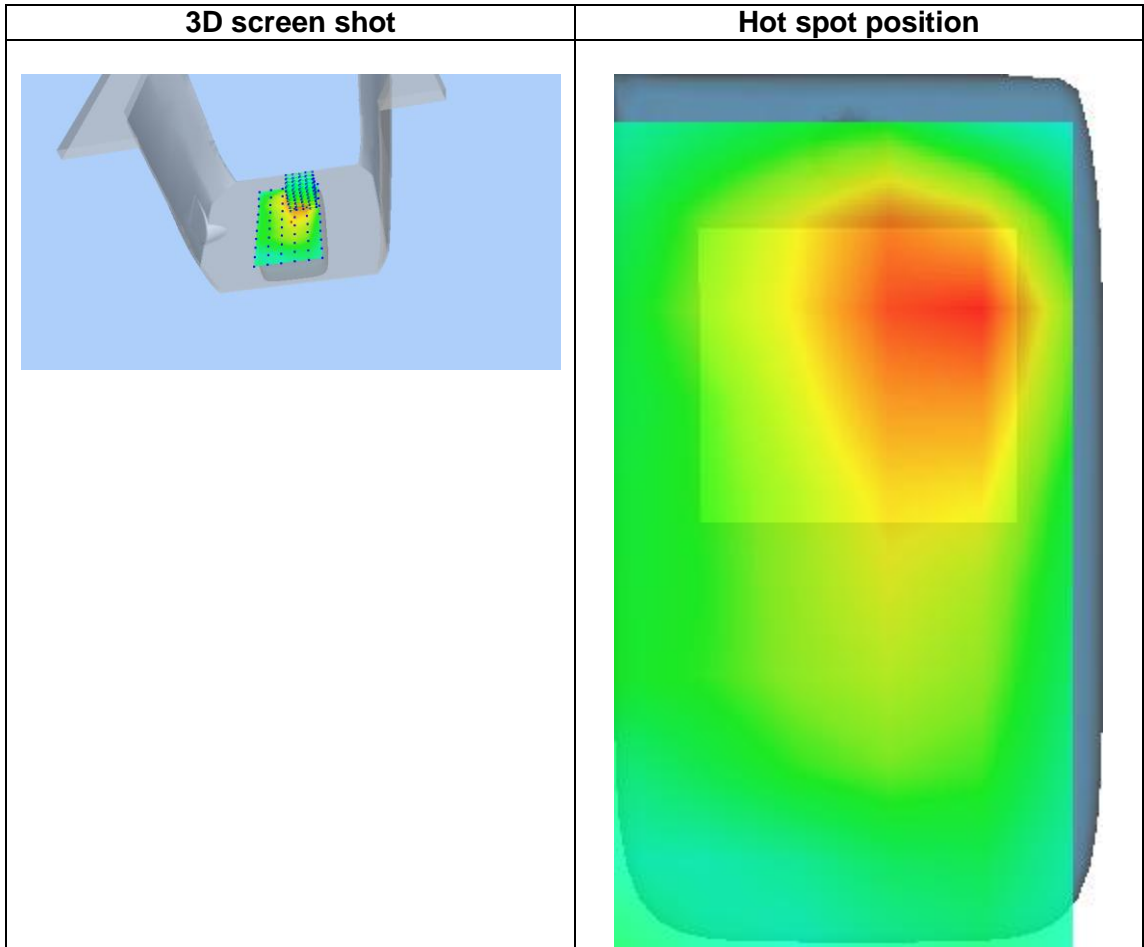
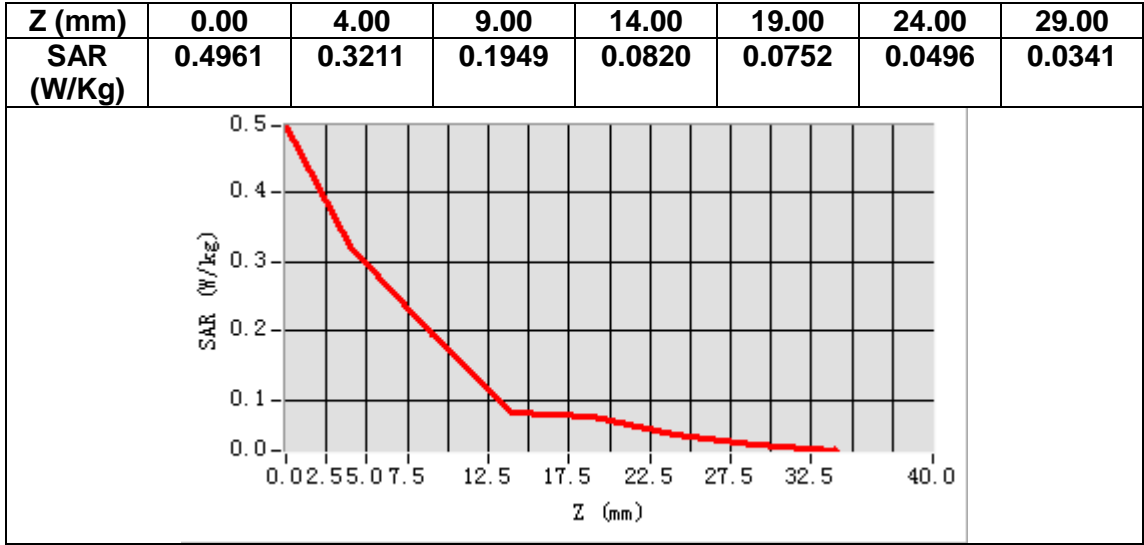
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.434464
Relative permittivity (imaginary part)	13.801094
Conductivity (S/m)	1.441448
Variation (%)	-1.290000



Maximum location: X=16.00, Y=32.00
SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.177046
SAR 1g (W/Kg)	0.316694



MEASUREMENT 5

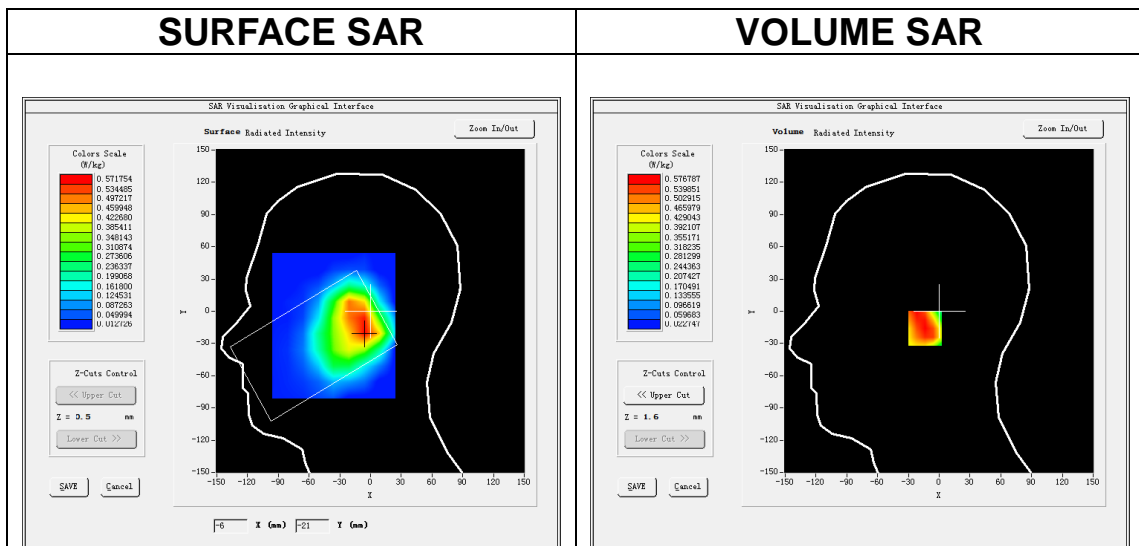
Date of measurement: 8/10/2022

A. Experimental conditions.

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

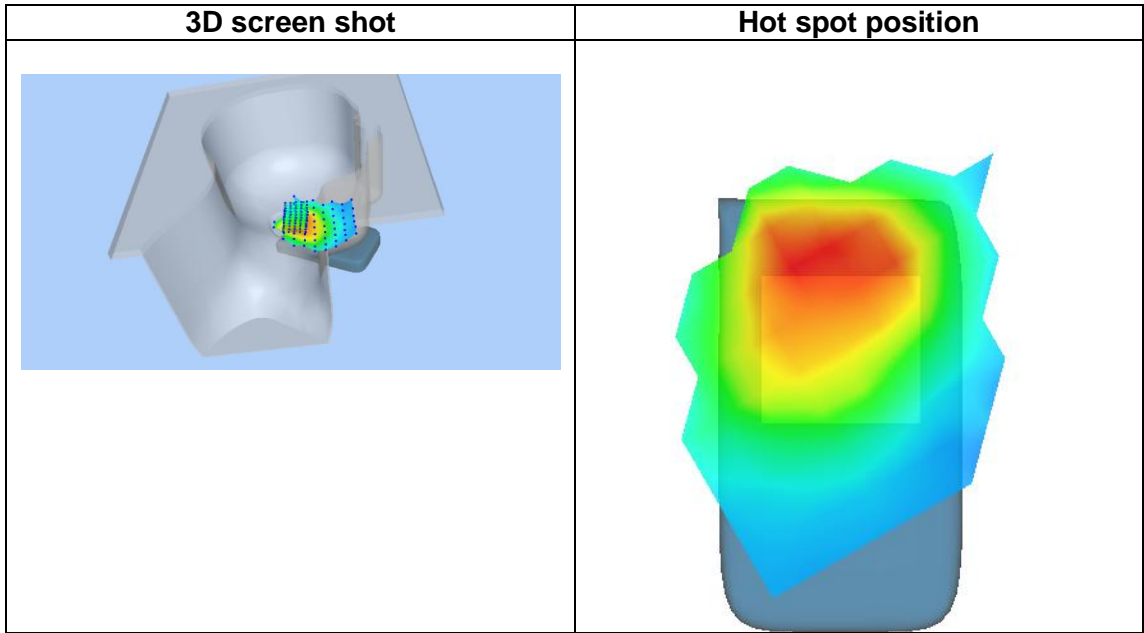
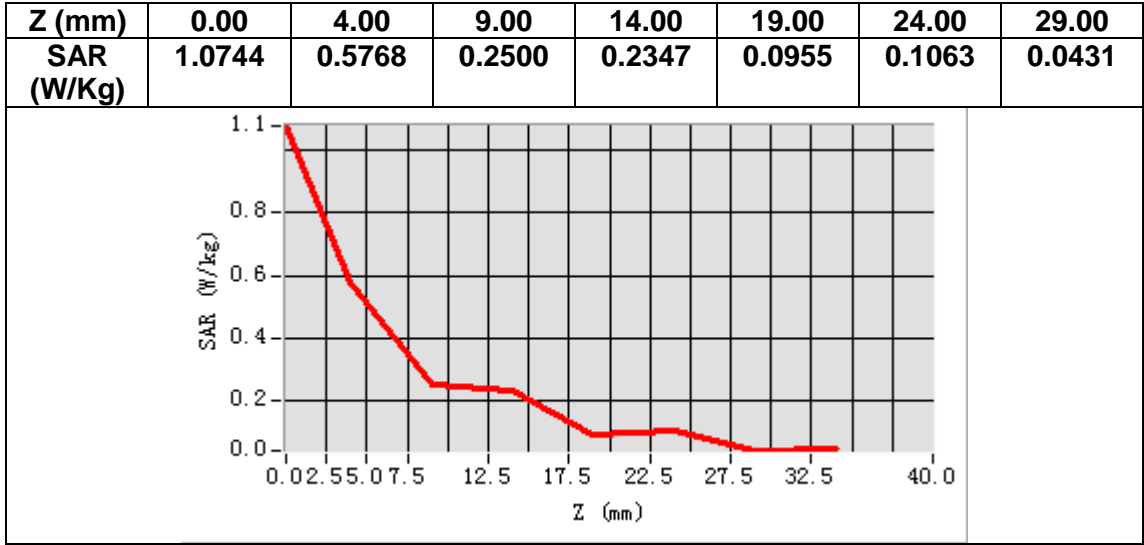
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.434464
Relative permittivity (imaginary part)	13.801094
Conductivity (S/m)	1.441448
Variation (%)	-1.560000



Maximum location: X=-6.00, Y=-16.00
SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.339370
SAR 1g (W/Kg)	0.566407



MEASUREMENT 6

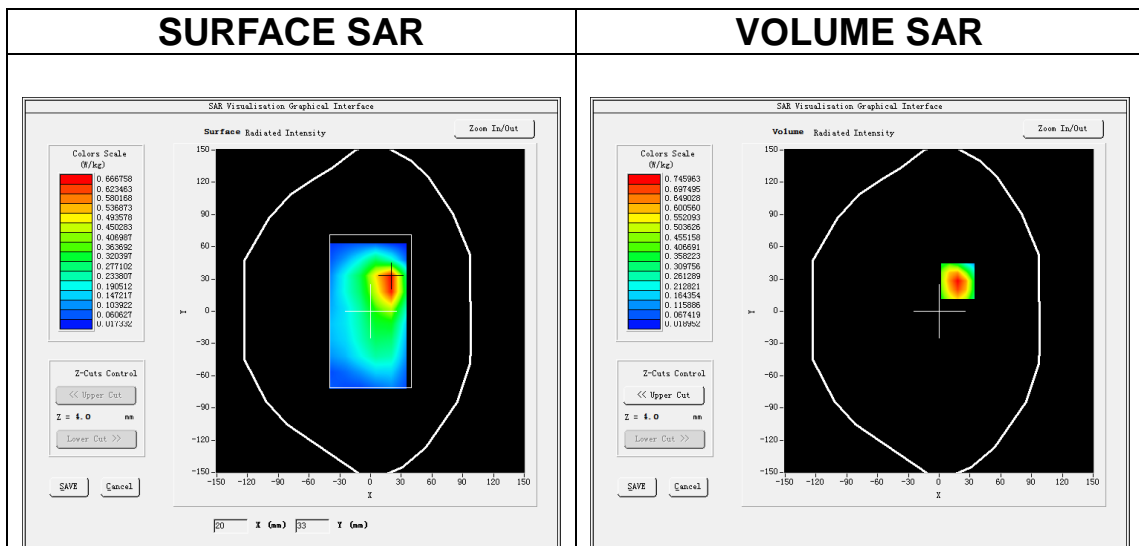
Date of measurement: 8/10/2022

A. Experimental conditions.

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

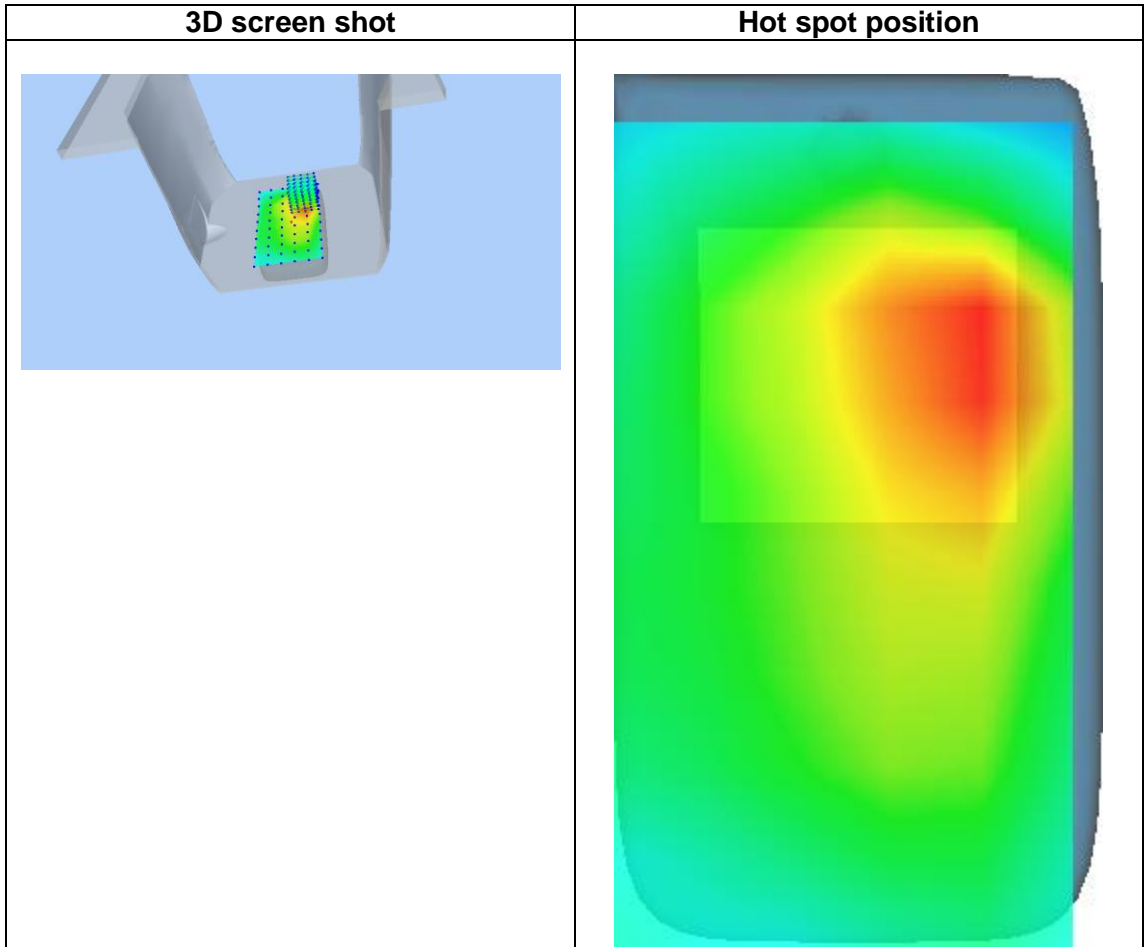
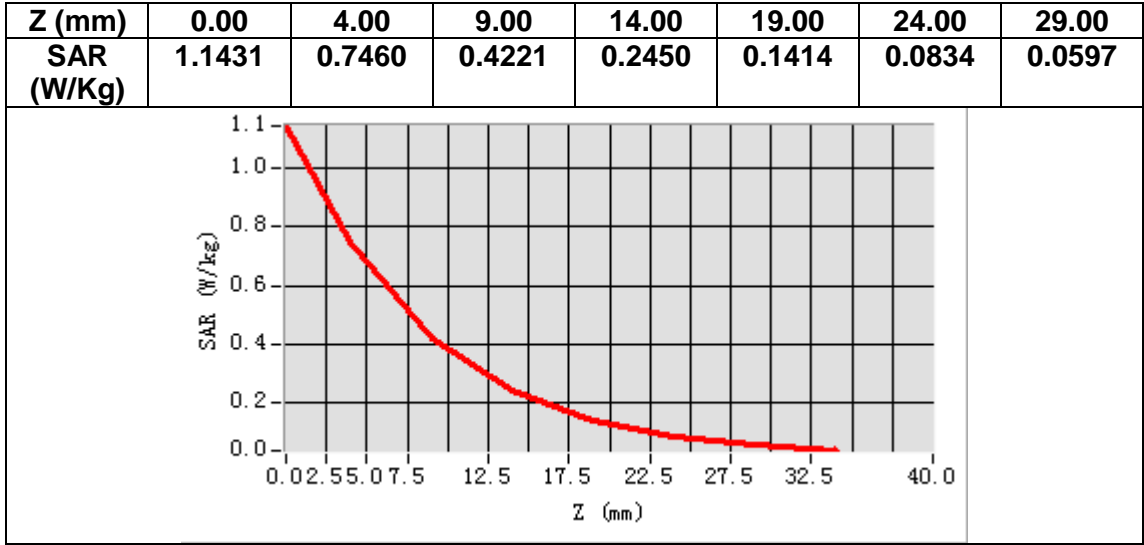
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.434464
Relative permittivity (imaginary part)	13.801094
Conductivity (S/m)	1.441448
Variation (%)	-0.370000



Maximum location: X=18.00, Y=28.00
SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.397163
SAR 1g (W/Kg)	0.720857



MEASUREMENT 7

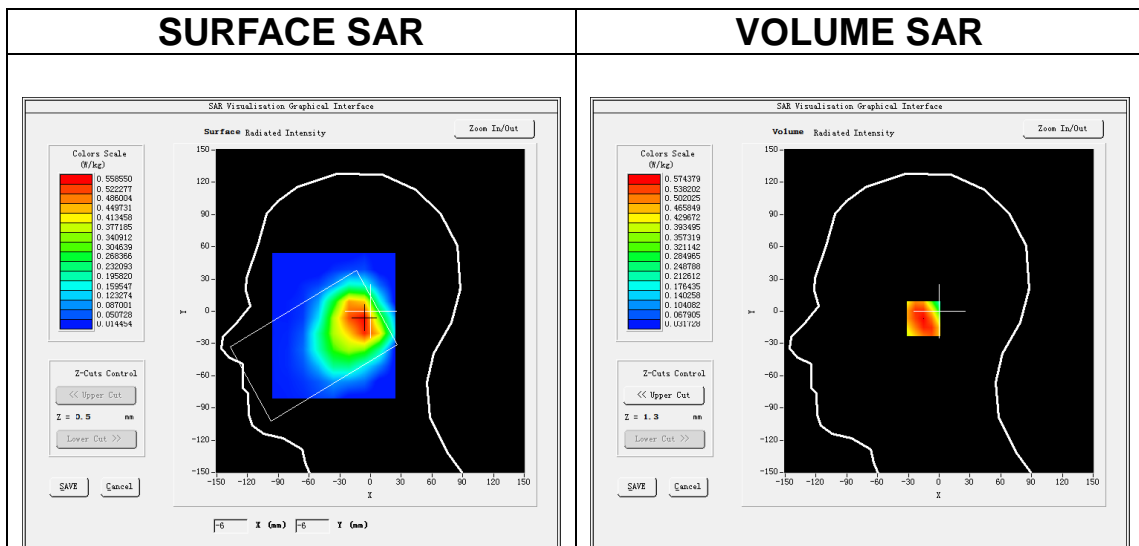
Date of measurement: 21/9/2022

A. Experimental conditions.

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

B. SAR Measurement Results

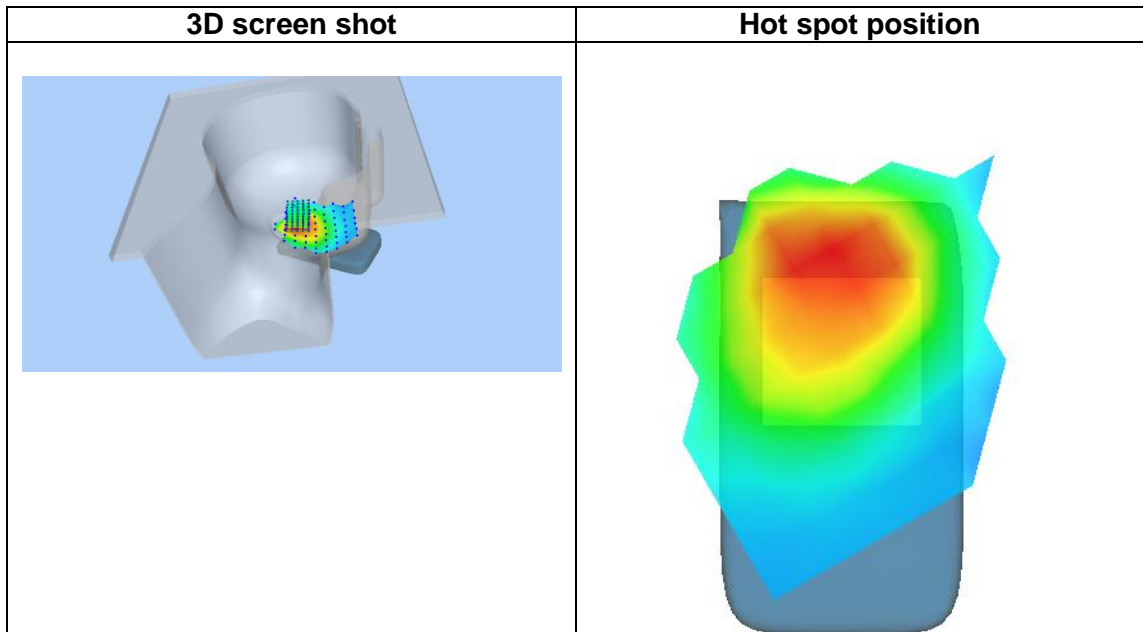
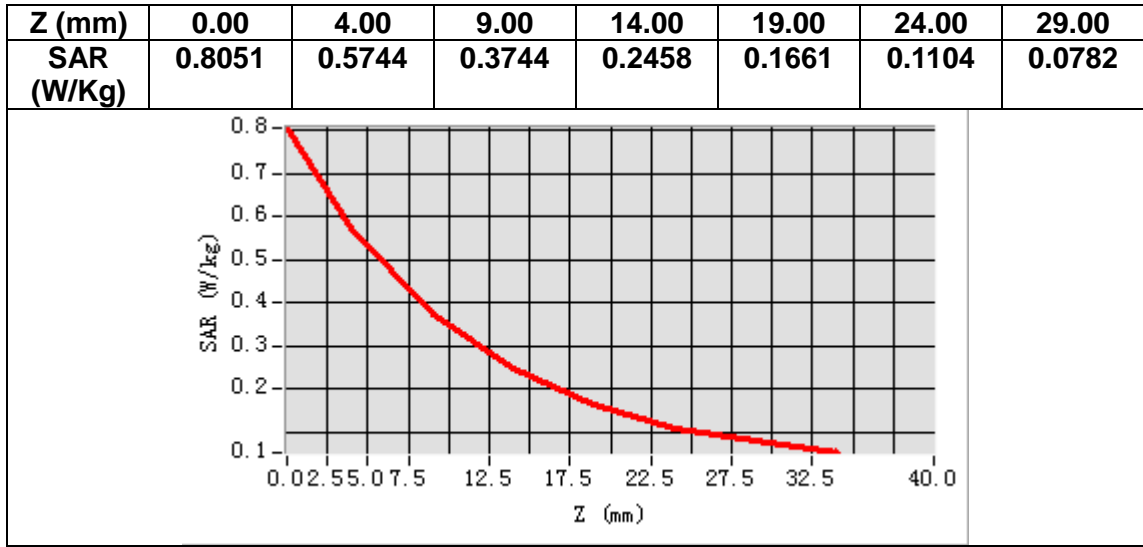
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.136761
Relative permittivity (imaginary part)	13.799881
Conductivity (S/m)	1.327855
Variation (%)	-0.330000



Maximum location: X=-9.00, Y=-7.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.353444
SAR 1g (W/Kg)	0.548957



MEASUREMENT 8

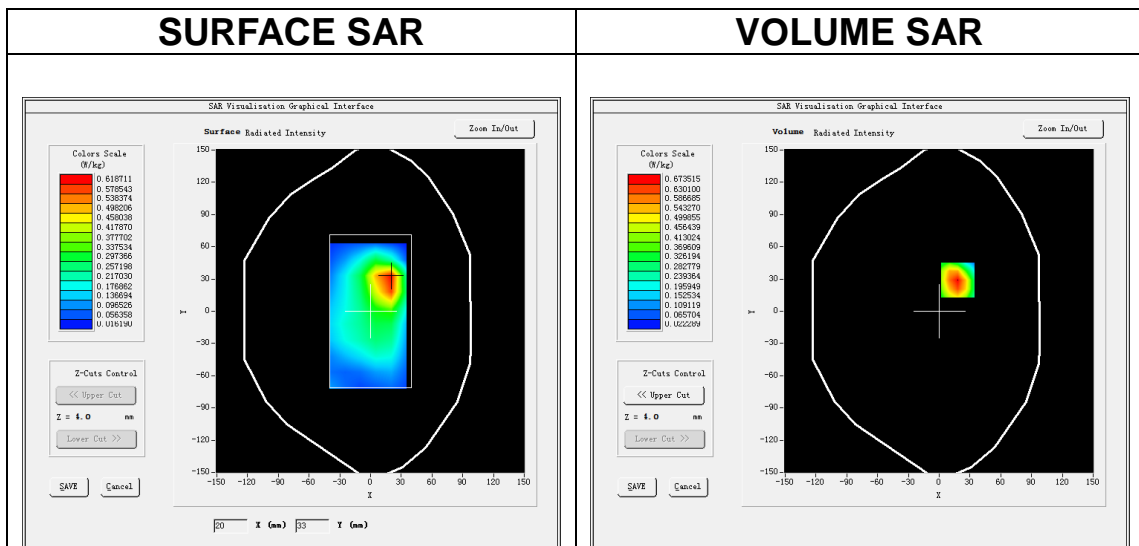
Date of measurement: 21/9/2022

A. Experimental conditions.

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

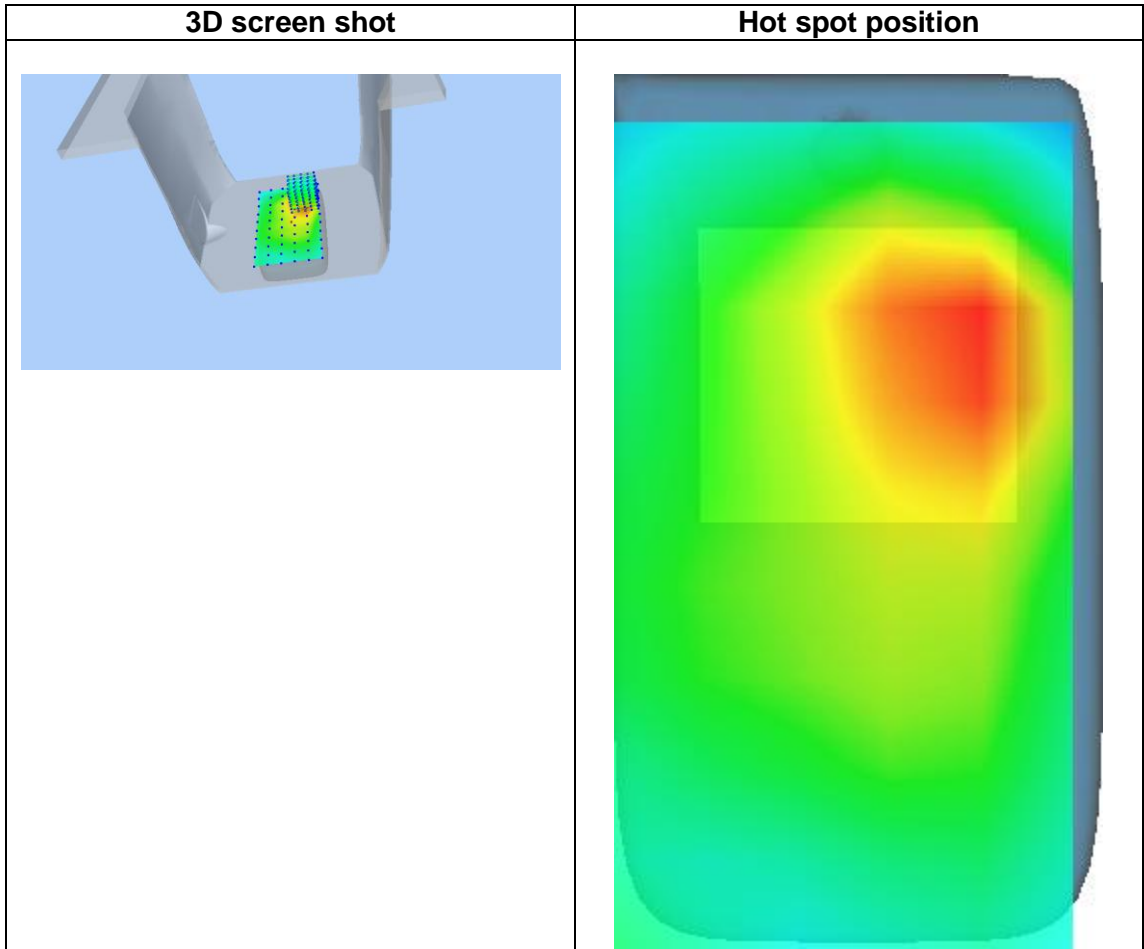
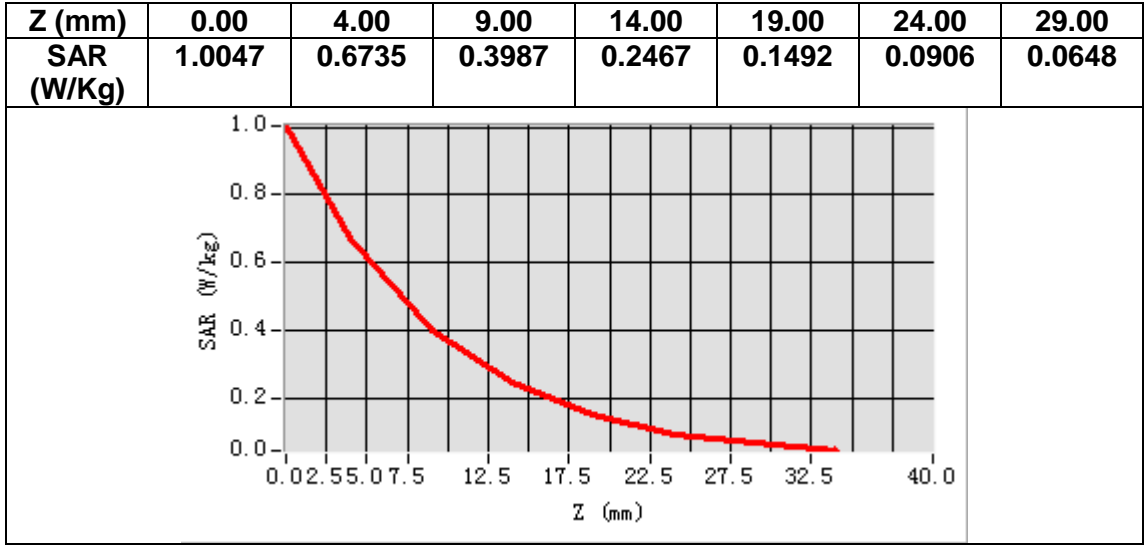
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.136761
Relative permittivity (imaginary part)	13.799881
Conductivity (S/m)	1.327855
Variation (%)	-0.210000



Maximum location: X=18.00, Y=29.00
SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.364561
SAR 1g (W/Kg)	0.635021



MEASUREMENT 9

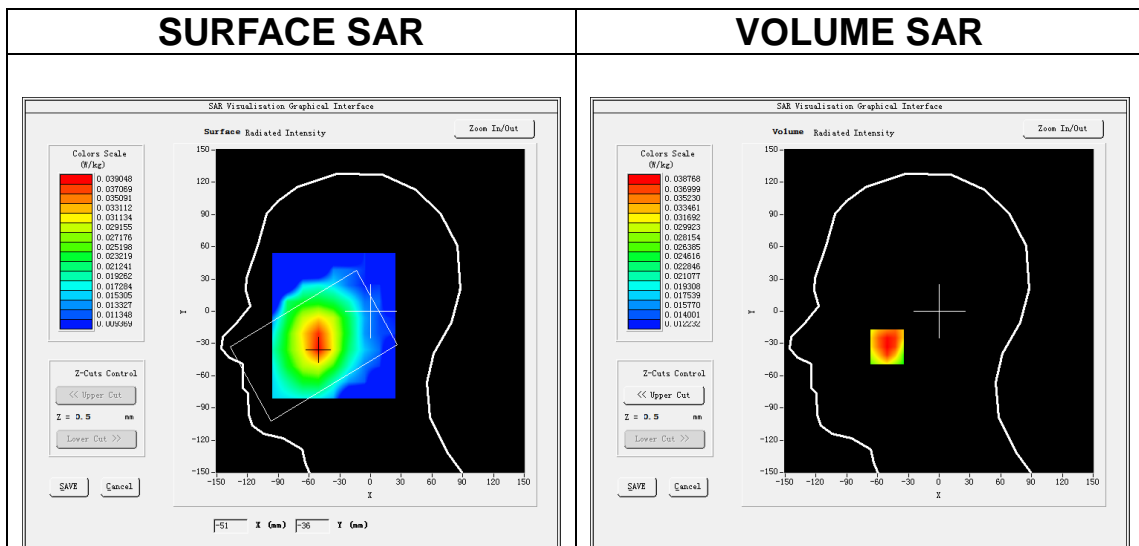
Date of measurement: 23/9/2022

A. Experimental conditions.

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

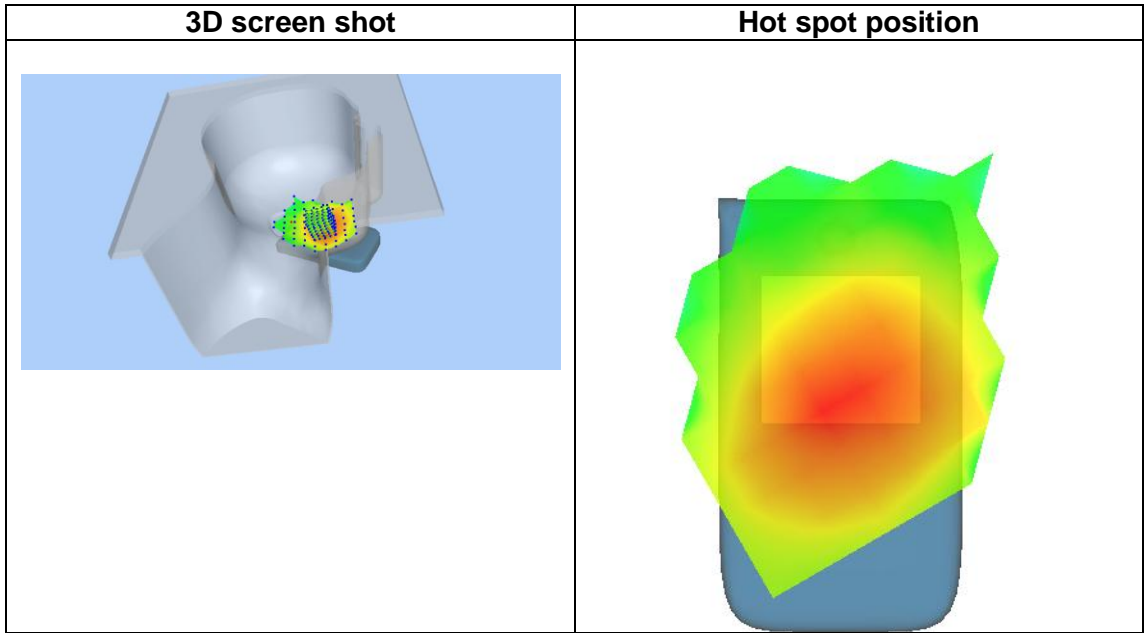
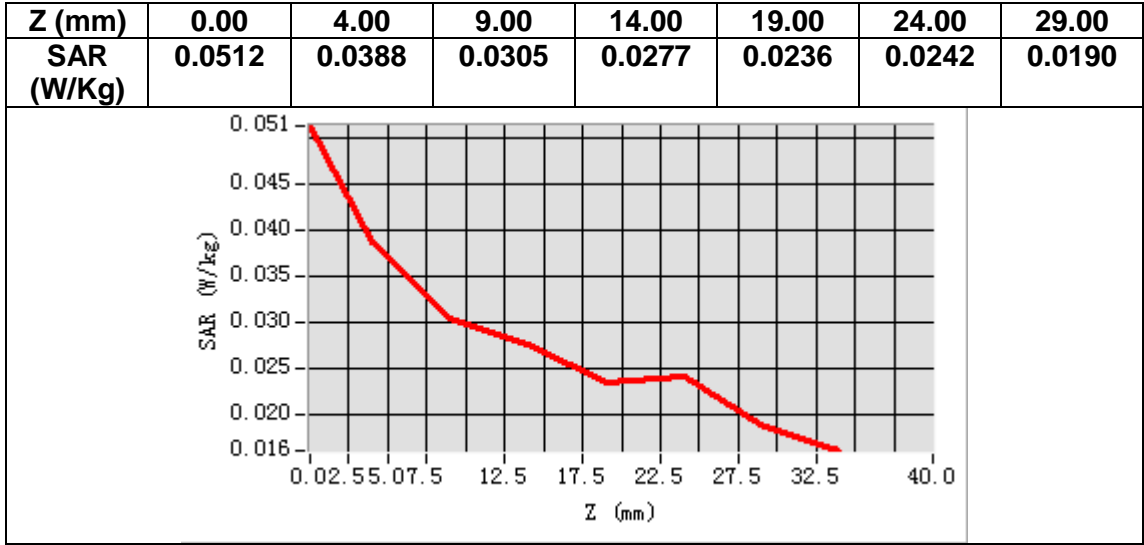
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.288811
Relative permittivity (imaginary part)	19.947828
Conductivity (S/m)	0.926909
Variation (%)	0.470000



Maximum location: X=-51.00, Y=-33.00
SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.031213
SAR 1g (W/Kg)	0.040677



MEASUREMENT 10

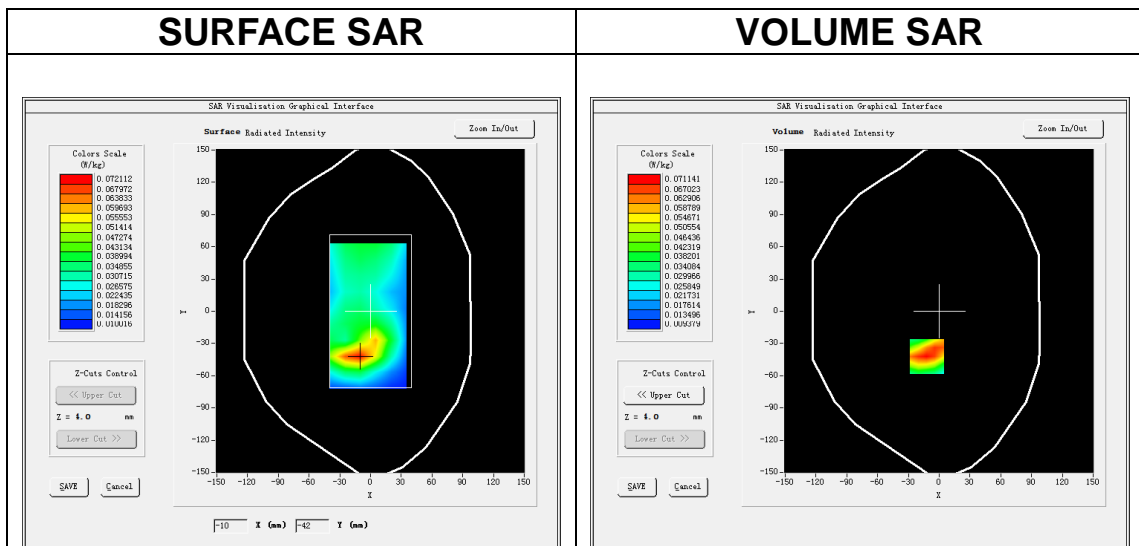
Date of measurement: 23/9/2022

A. Experimental conditions.

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

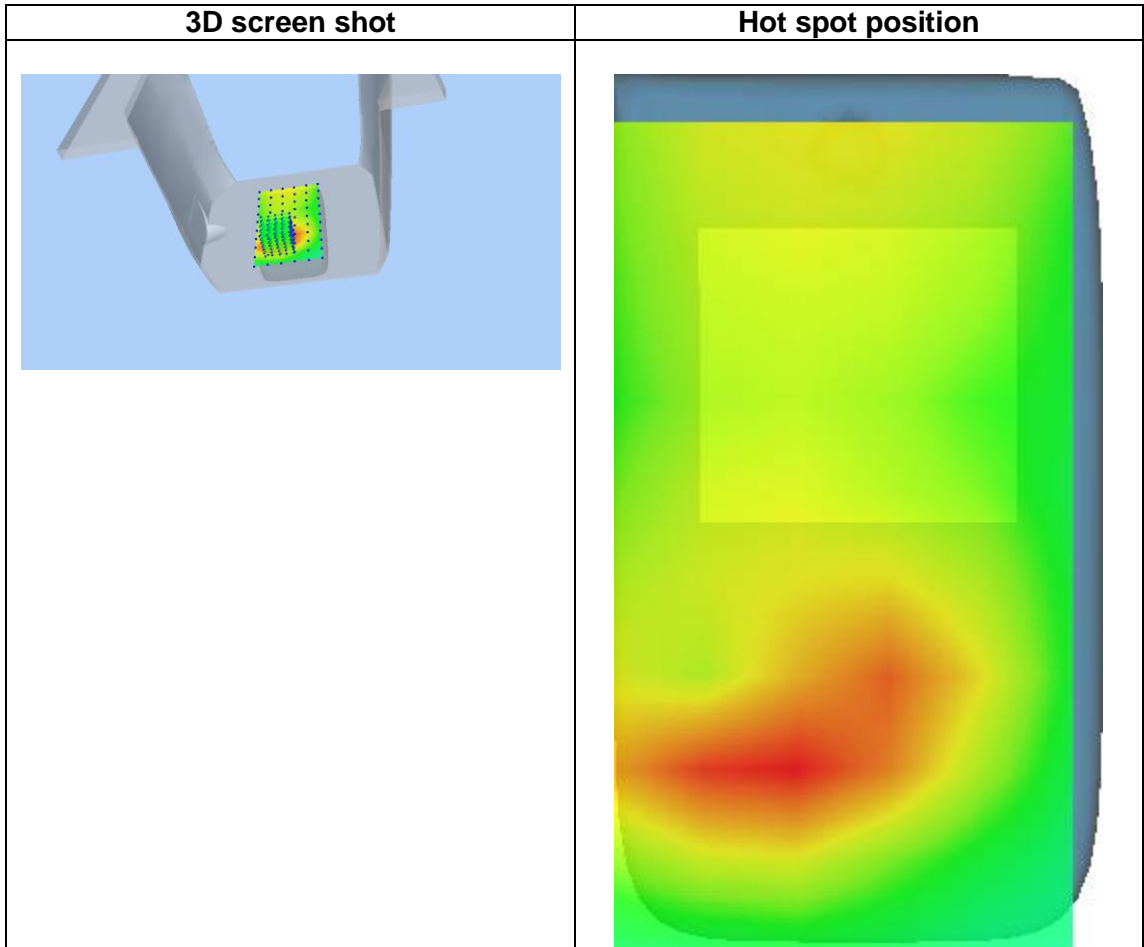
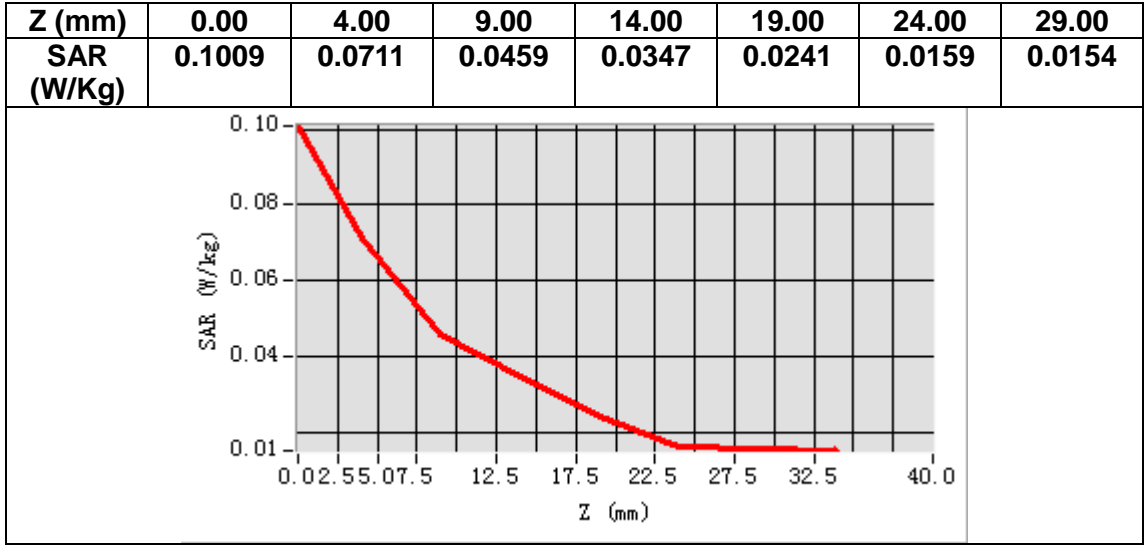
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.288811
Relative permittivity (imaginary part)	19.947828
Conductivity (S/m)	0.926909
Variation (%)	-0.540000



Maximum location: X=-12.00, Y=-42.00
SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.044175
SAR 1g (W/Kg)	0.071077



MEASUREMENT 11

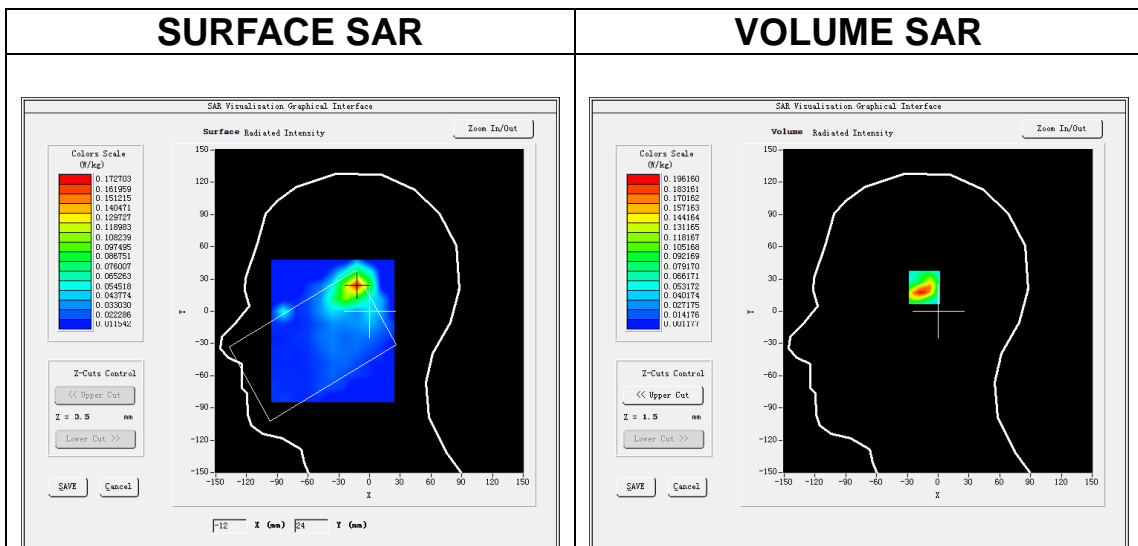
Date of measurement: 24/9/2022

A. Experimental conditions.

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

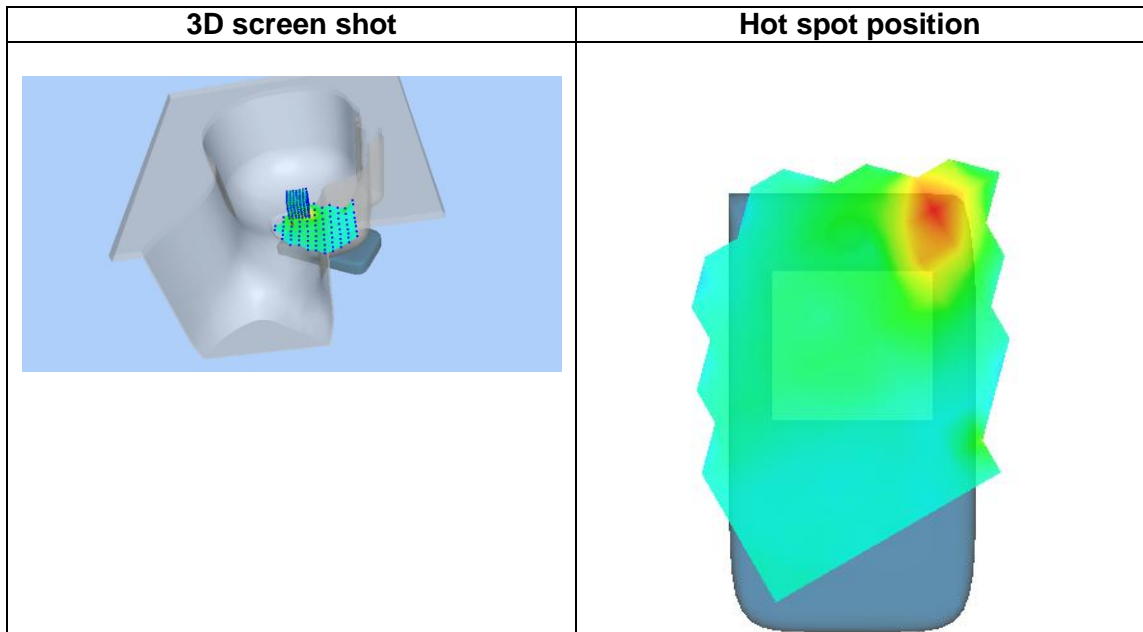
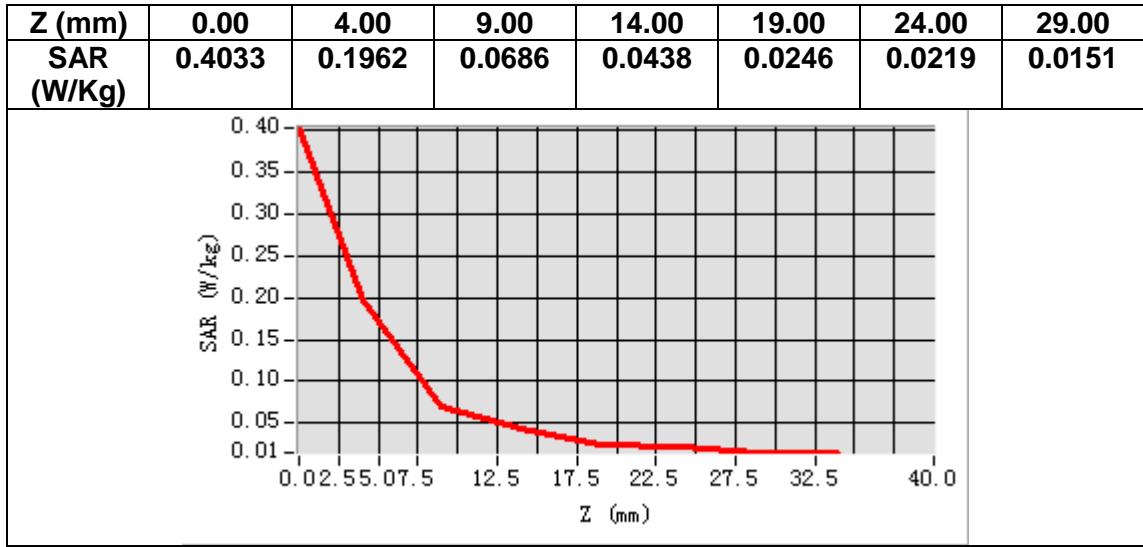
B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	37.846413
Relative permittivity (imaginary part)	12.948585
Conductivity (S/m)	1.753095
Variation (%)	-3.530000



Maximum location: X=-12.00, Y=24.00
SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.078379
SAR 1g (W/Kg)	0.181776



MEASUREMENT 12

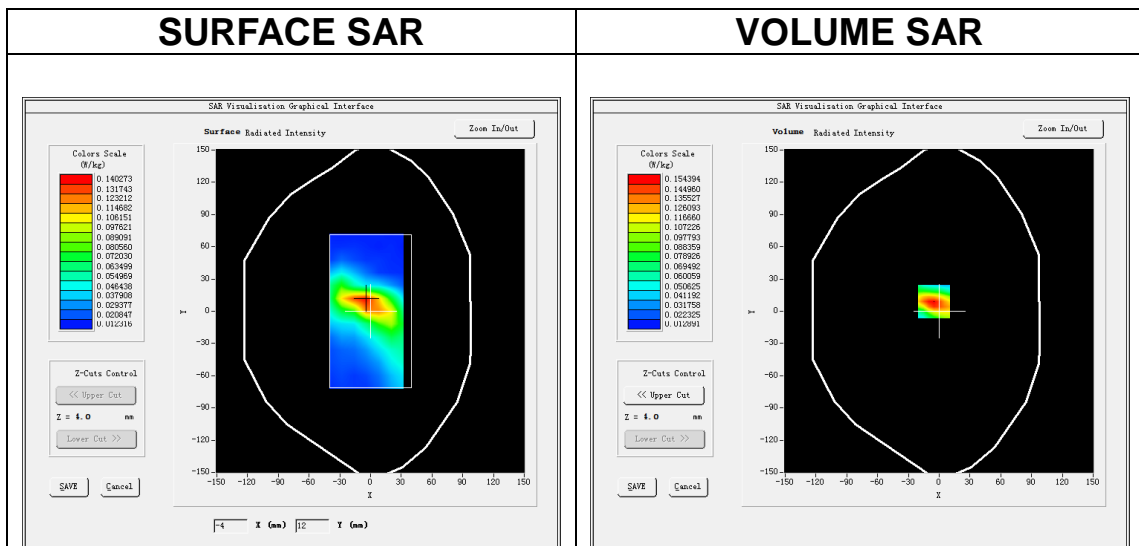
Date of measurement: 24/9/2022

A. Experimental conditions.

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

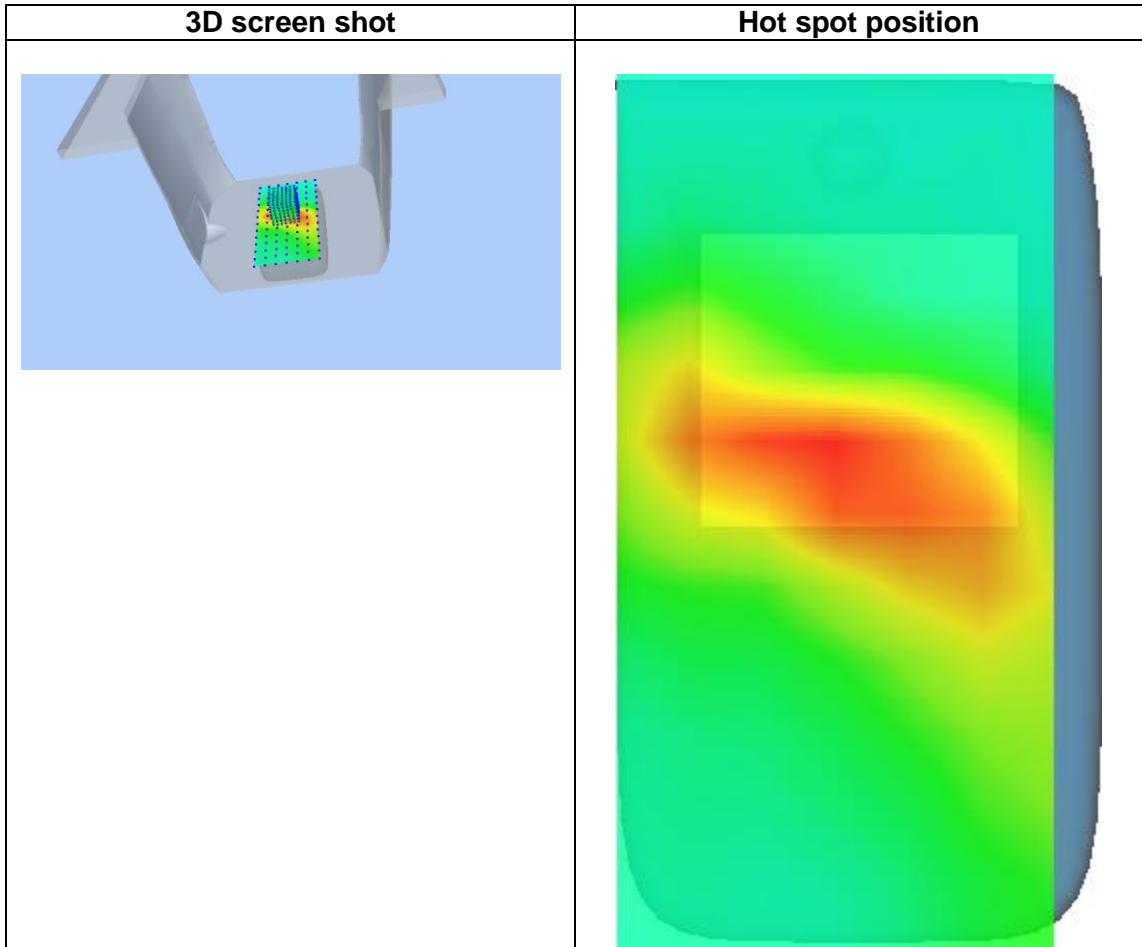
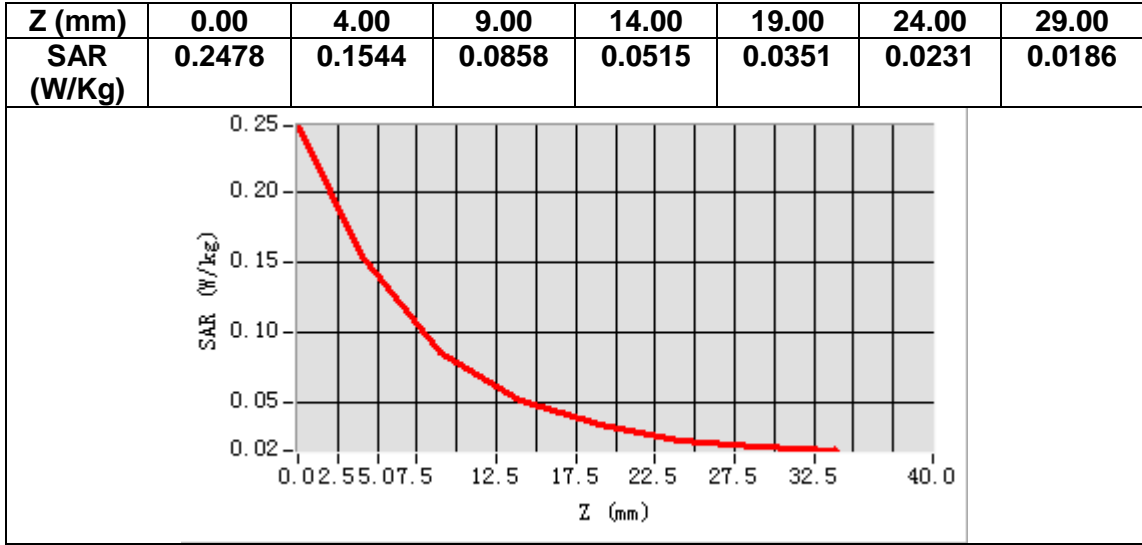
B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	37.846413
Relative permittivity (imaginary part)	12.948585
Conductivity (S/m)	1.753095
Variation (%)	-0.040000



Maximum location: X=-5.00, Y=9.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.077325
SAR 1g (W/Kg)	0.144734



MEASUREMENT 13

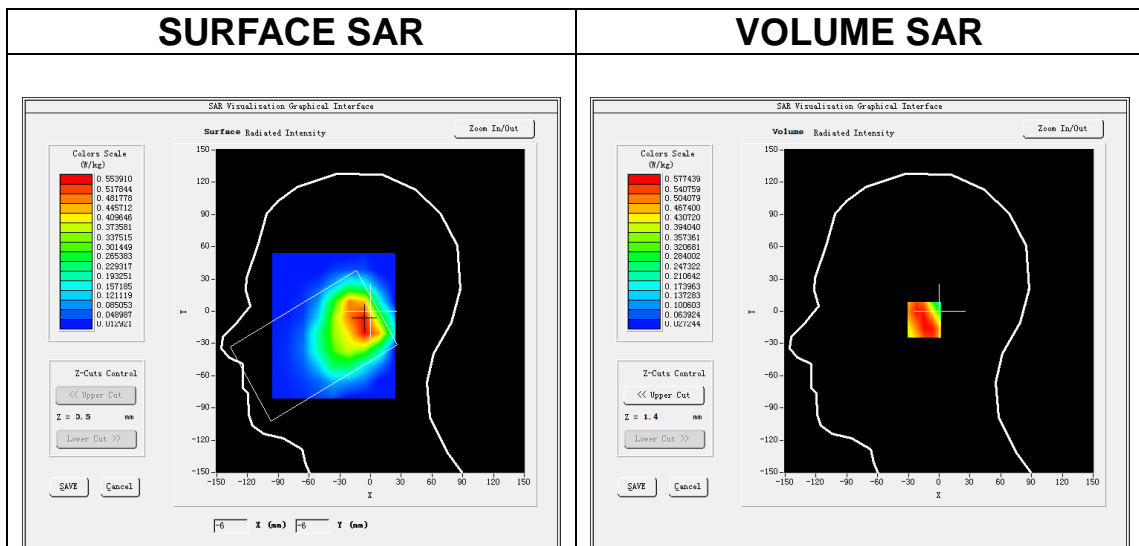
Date of measurement: 8/10/2022

A. Experimental conditions.

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

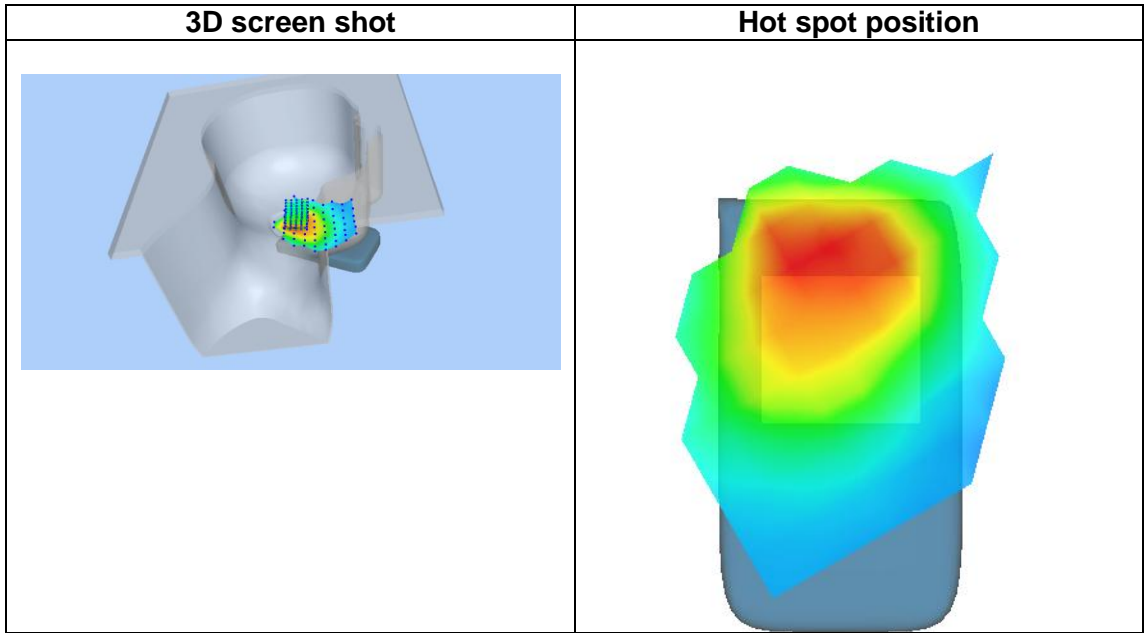
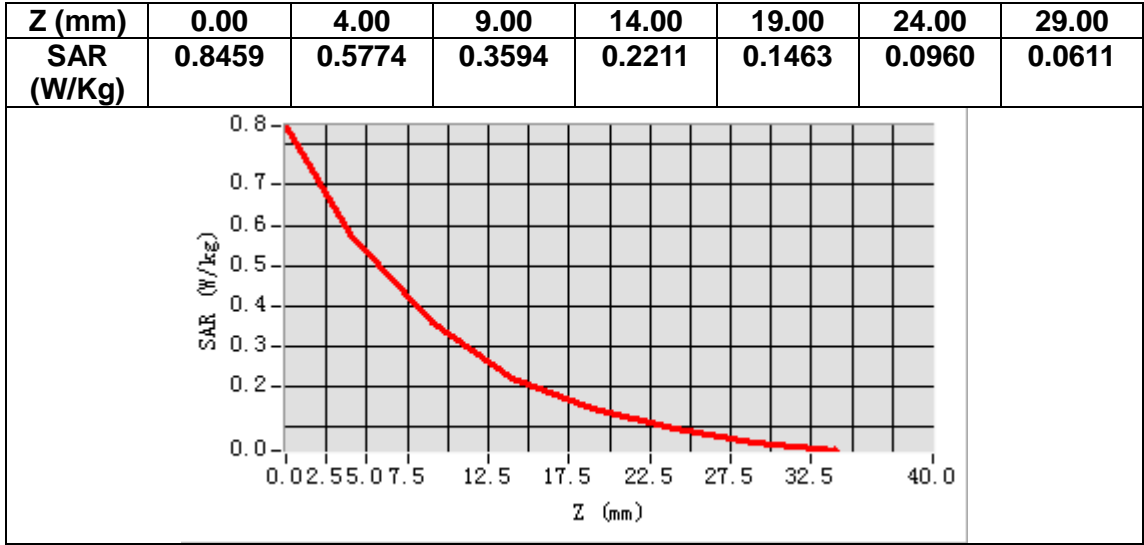
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.434464
Relative permittivity (imaginary part)	13.801094
Conductivity (S/m)	1.441448
Variation (%)	-0.050000



Maximum location: X=-8.00, Y=-8.00
SAR Peak: 0.87 W/kg

SAR 10g (W/Kg)	0.351678
SAR 1g (W/Kg)	0.574368



MEASUREMENT 14

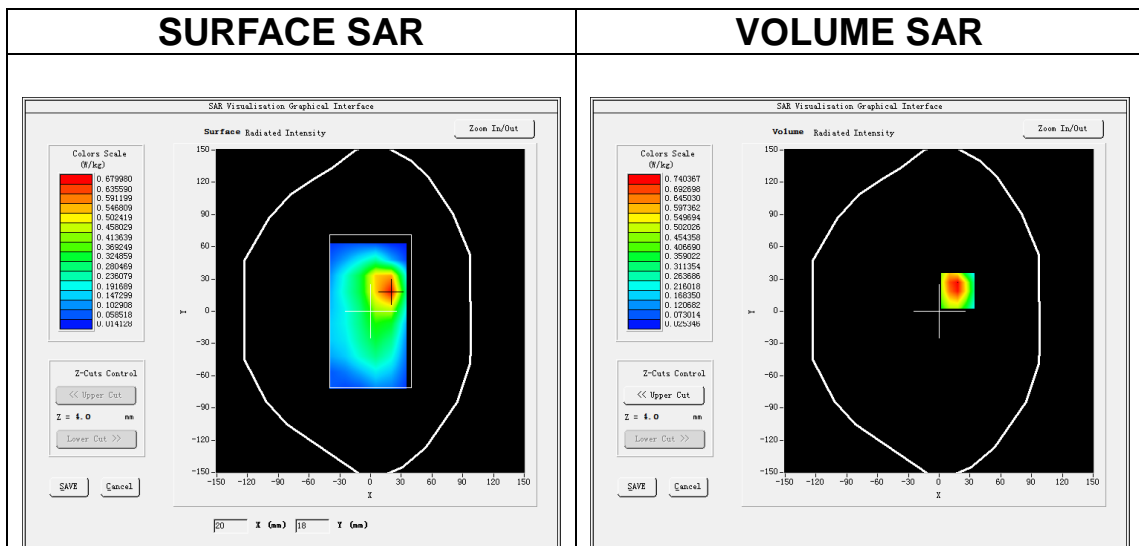
Date of measurement: 8/10/2022

A. Experimental conditions.

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

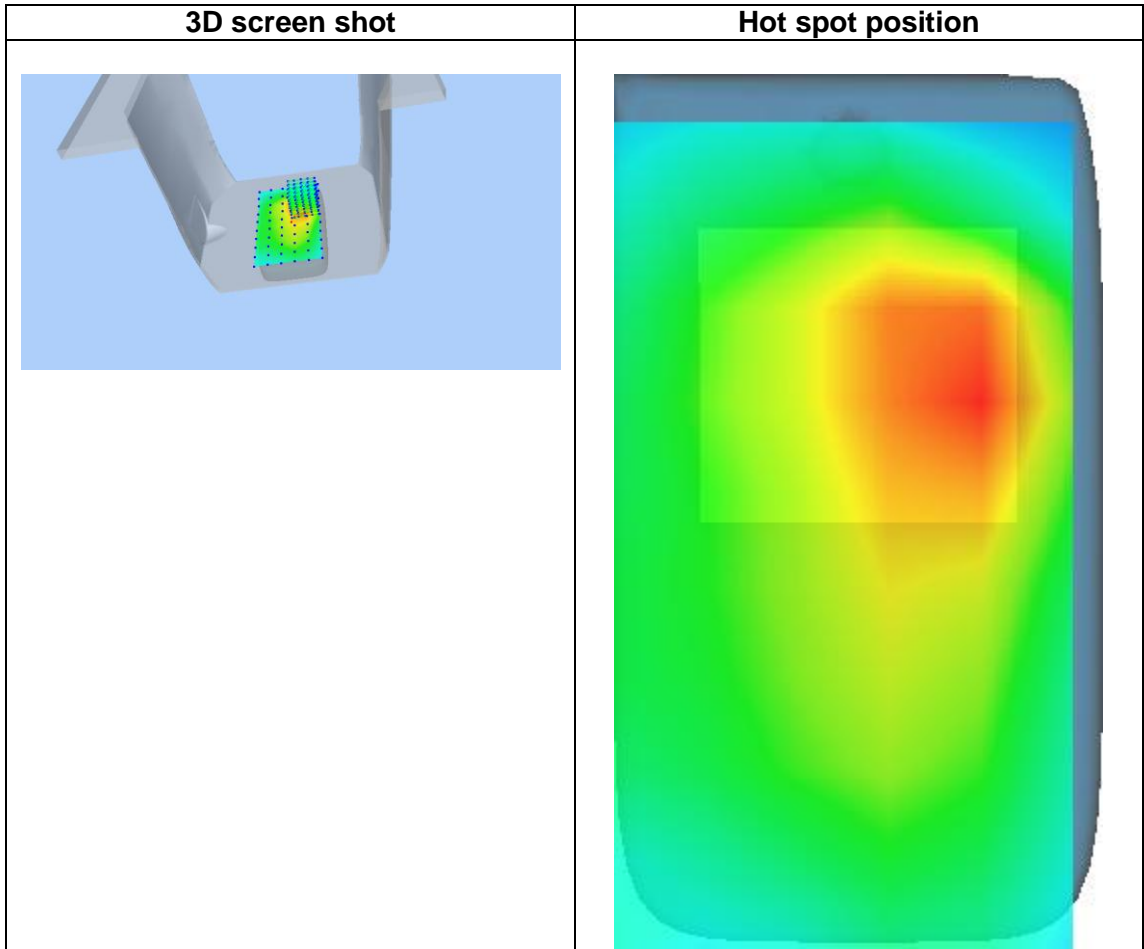
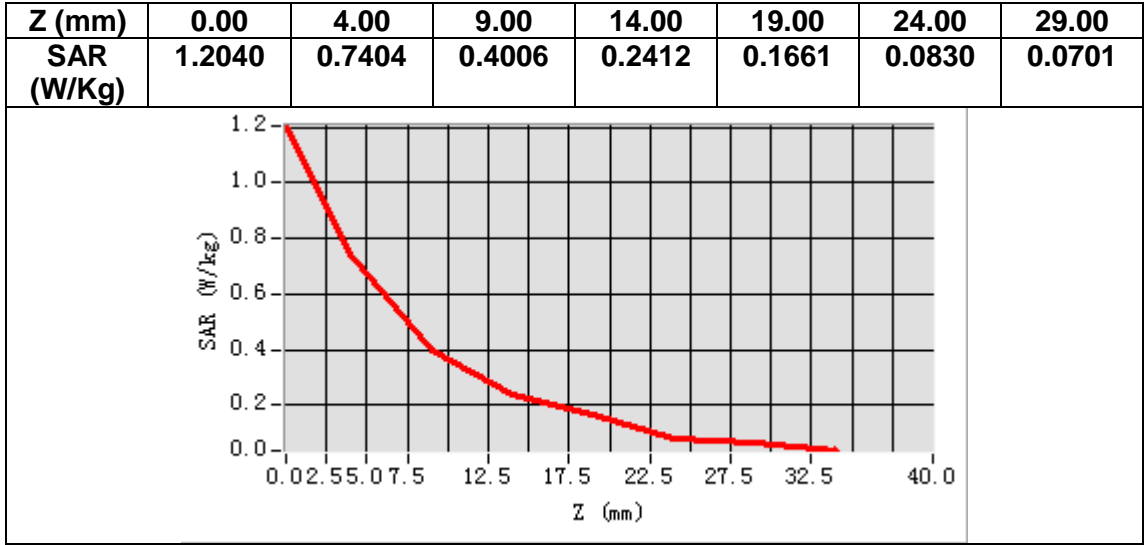
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.434464
Relative permittivity (imaginary part)	13.801094
Conductivity (S/m)	1.441448
Variation (%)	0.290000



Maximum location: X=18.00, Y=19.00
SAR Peak: 1.18 W/kg

SAR 10g (W/Kg)	0.410650
SAR 1g (W/Kg)	0.736568



MEASUREMENT 15

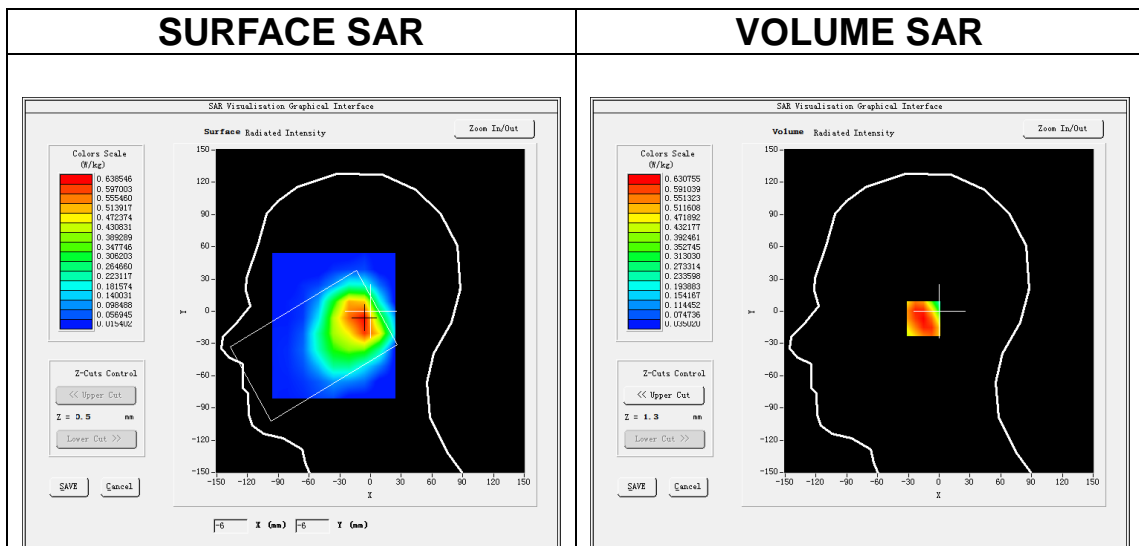
Date of measurement: 21/9/2022

A. Experimental conditions.

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

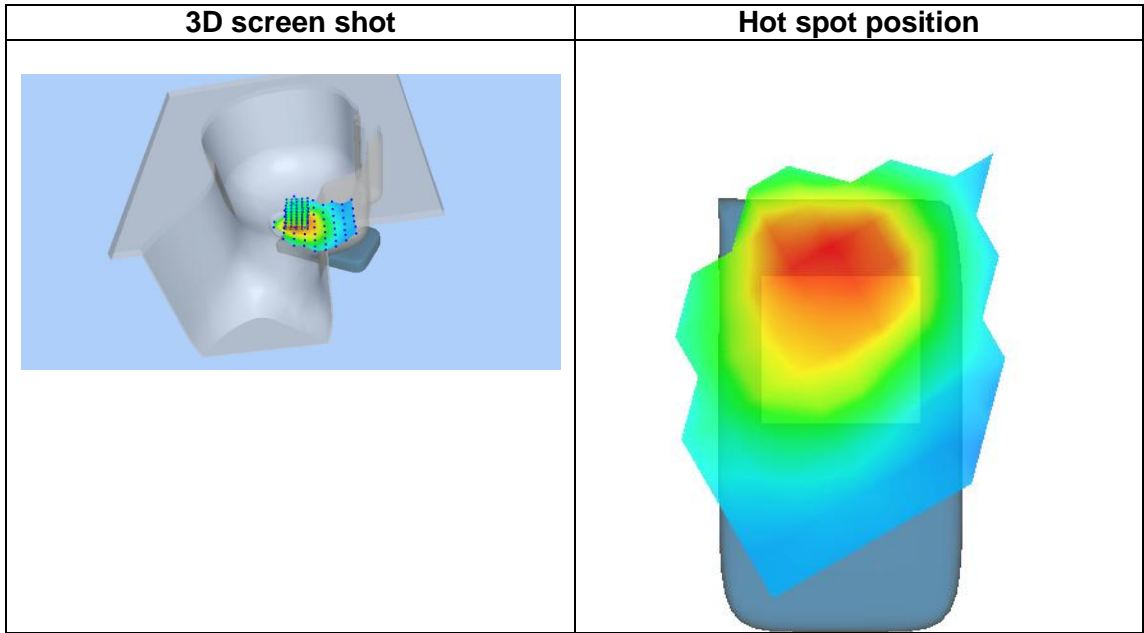
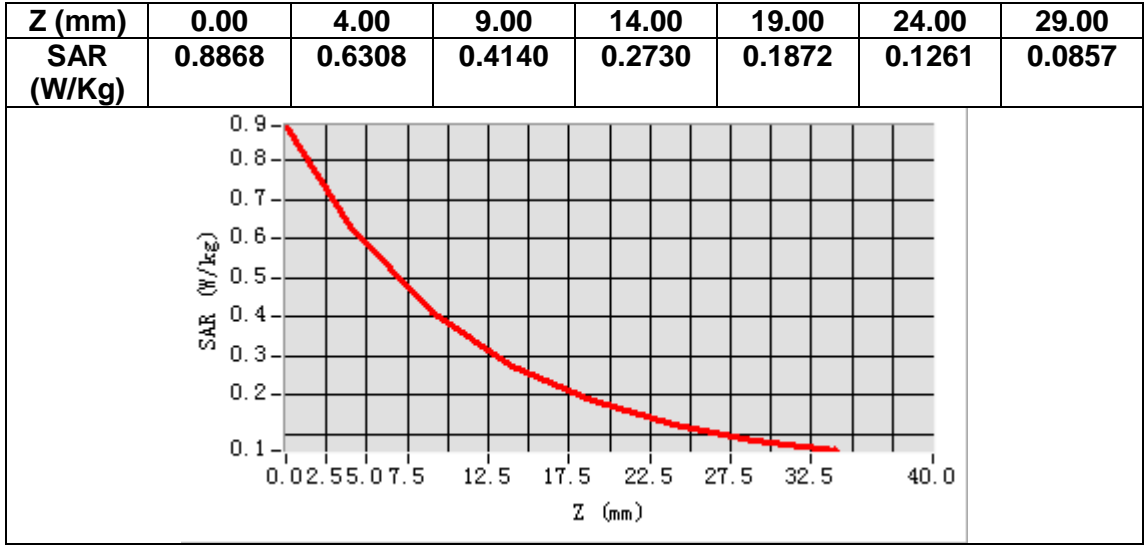
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.144661
Relative permittivity (imaginary part)	13.784731
Conductivity (S/m)	1.326780
Variation (%)	-0.350000



Maximum location: X=-9.00, Y=-7.00
SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.391519
SAR 1g (W/Kg)	0.606911



MEASUREMENT 16

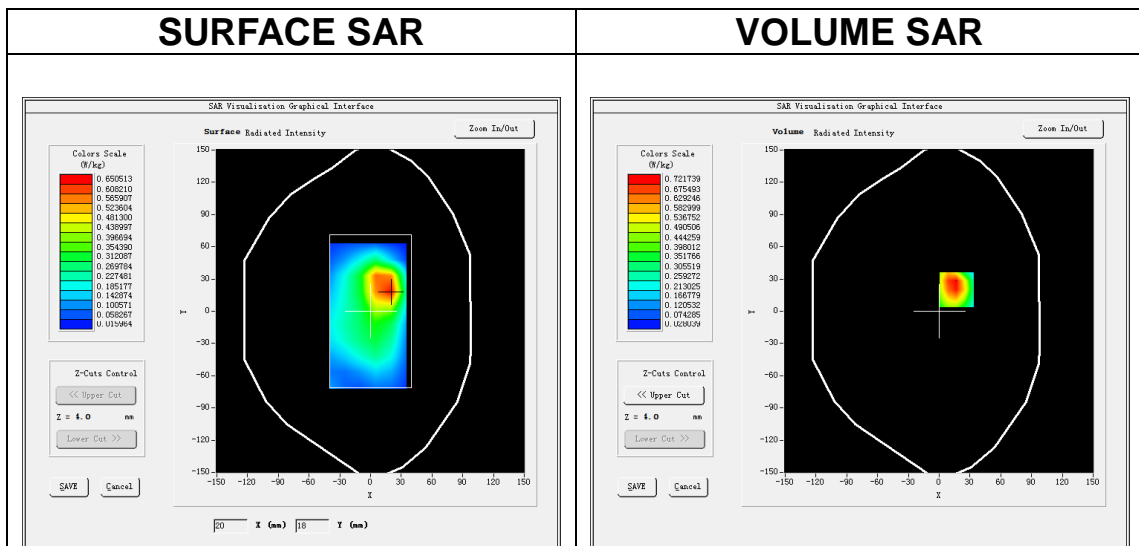
Date of measurement: 21/9/2022

A. Experimental conditions.

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

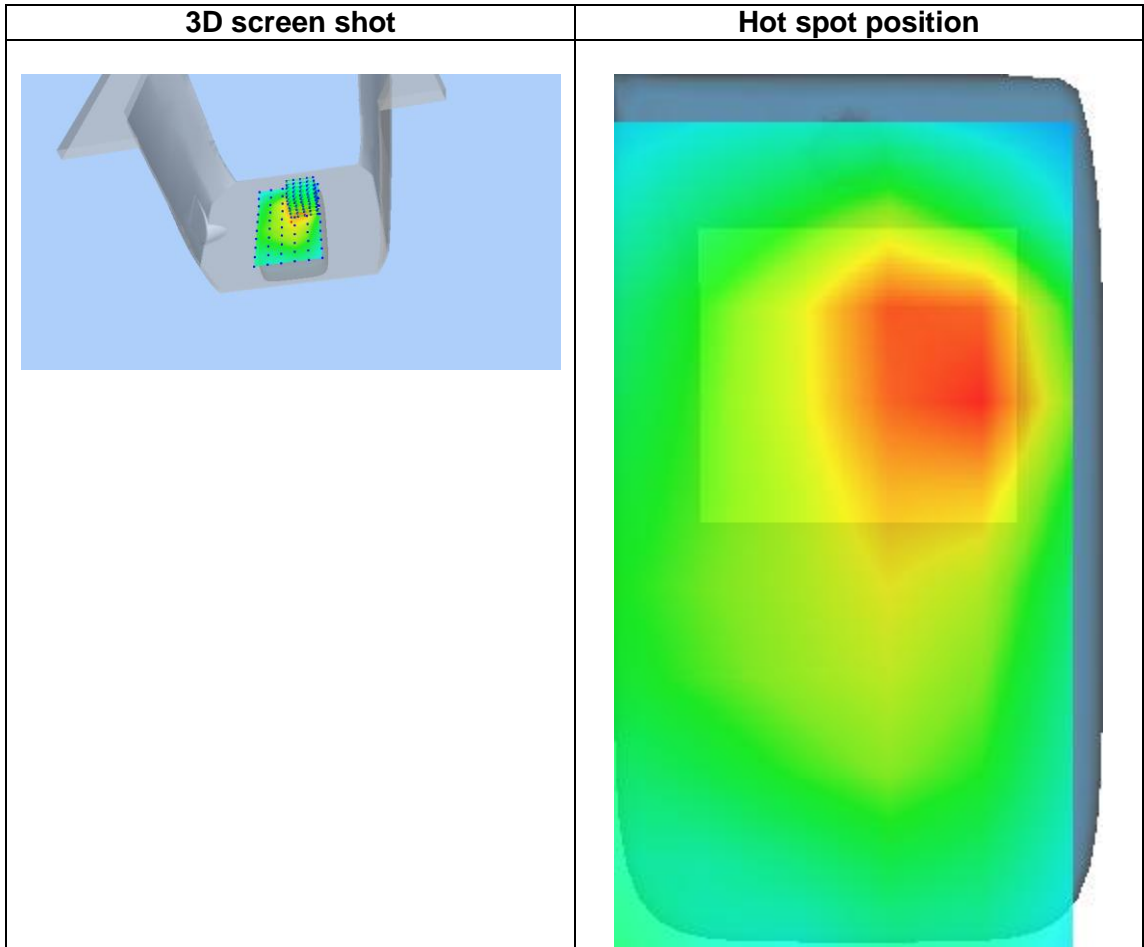
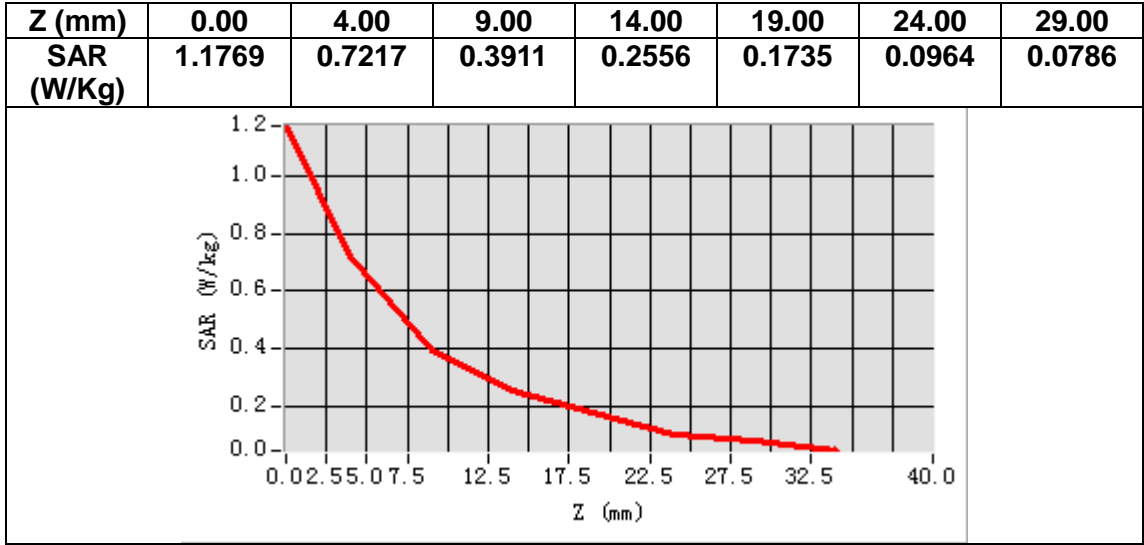
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.144661
Relative permittivity (imaginary part)	13.784731
Conductivity (S/m)	1.326780
Variation (%)	-0.390000



Maximum location: X=17.00, Y=20.00
SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.400806
SAR 1g (W/Kg)	0.696565



MEASUREMENT 17

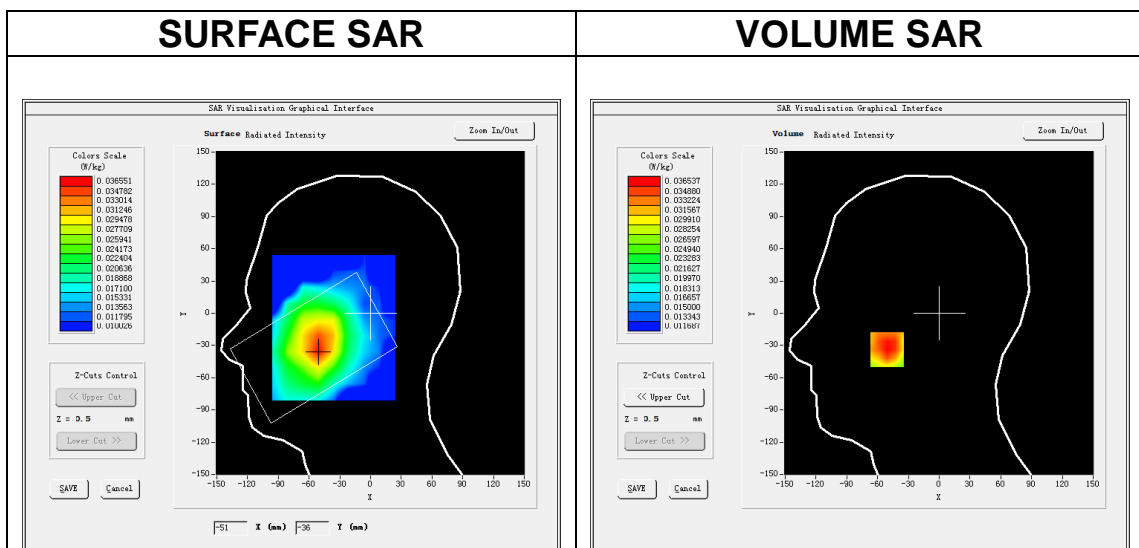
Date of measurement: 23/9/2022

A. Experimental conditions.

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

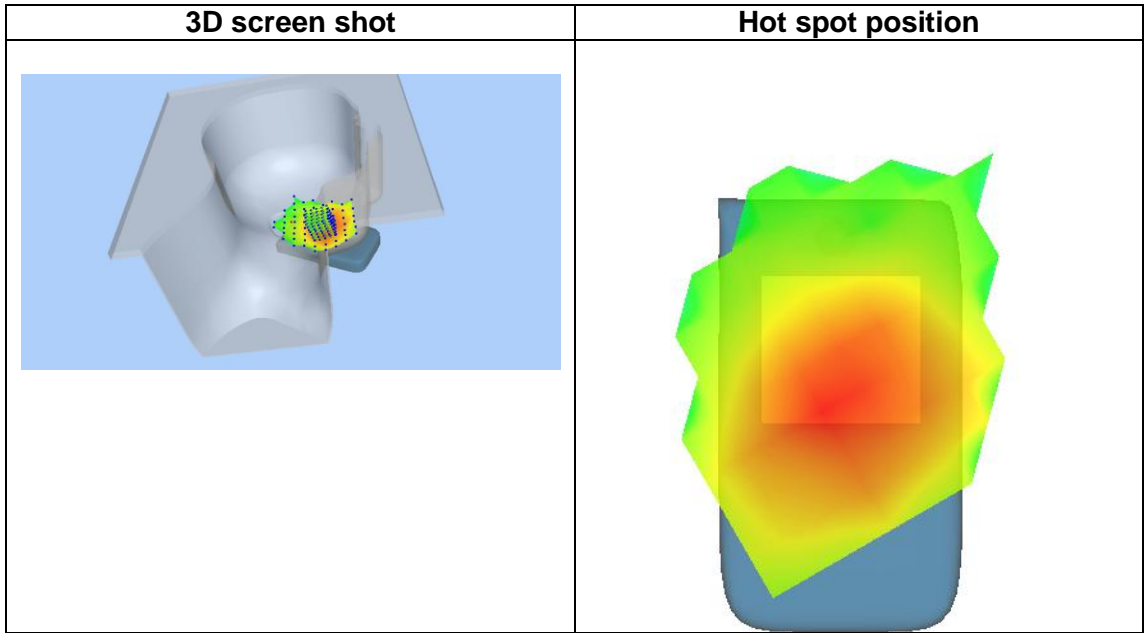
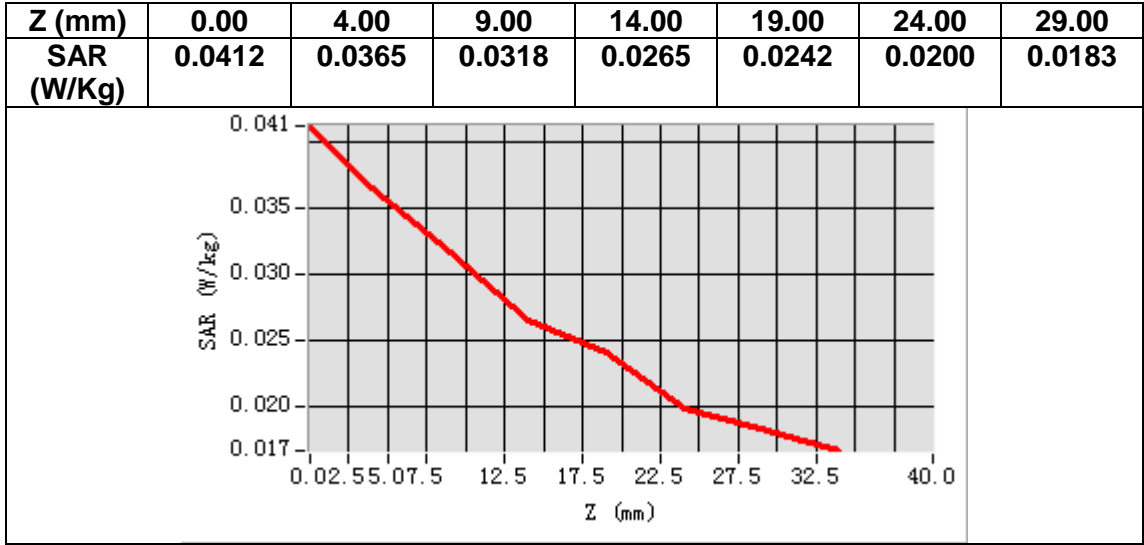
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.291401
Relative permittivity (imaginary part)	19.946489
Conductivity (S/m)	0.926958
Variation (%)	2.480000



Maximum location: X=-51.00, Y=-34.00
SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.029865
SAR 1g (W/Kg)	0.037344



MEASUREMENT 18

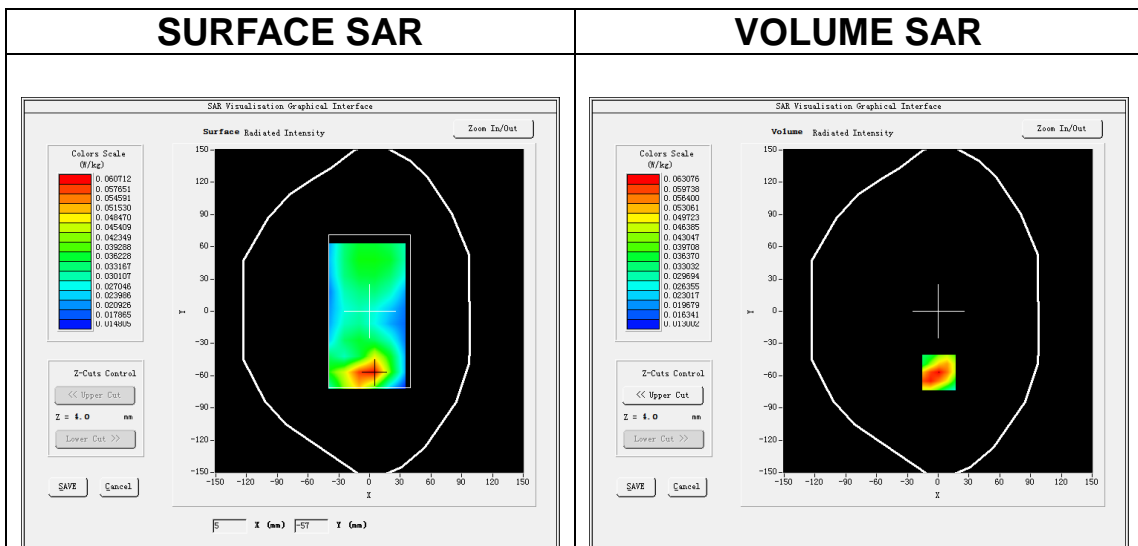
Date of measurement: 23/9/2022

A. Experimental conditions.

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

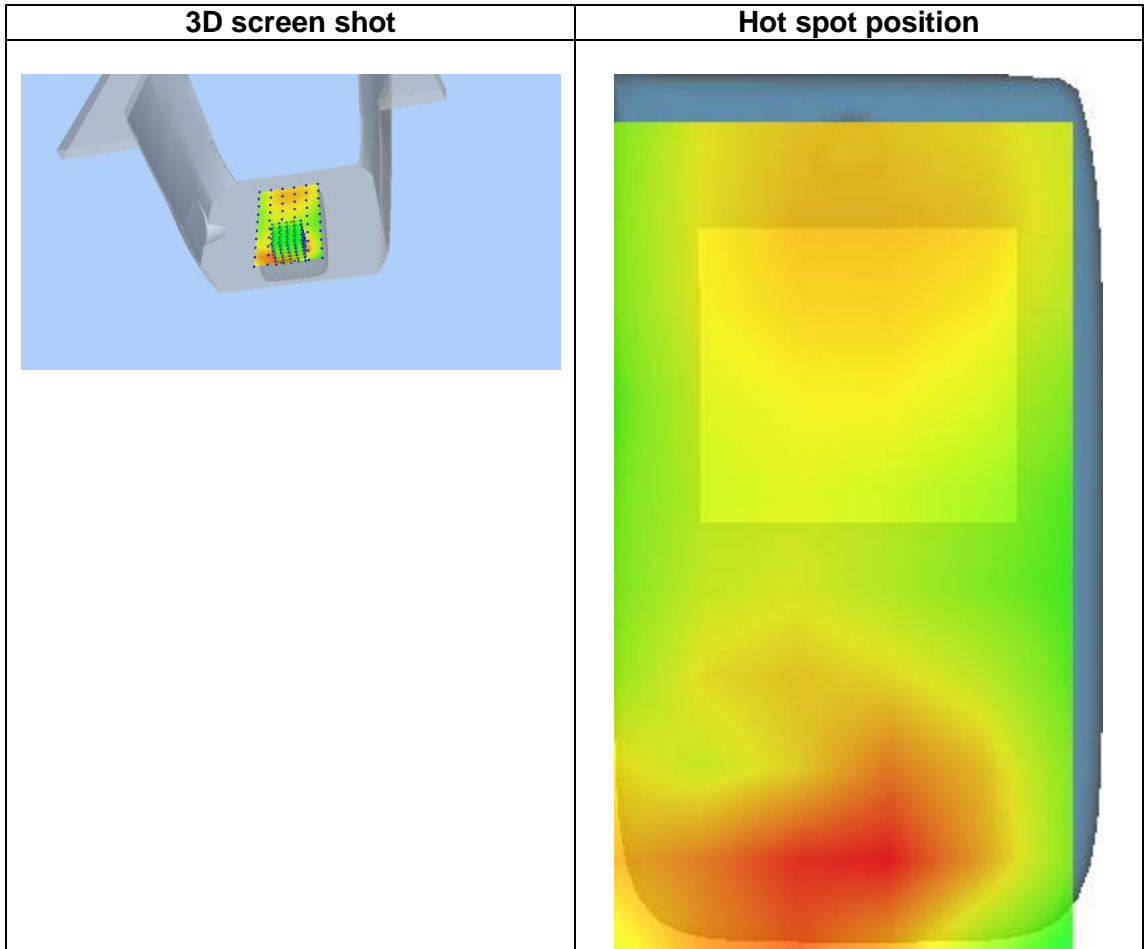
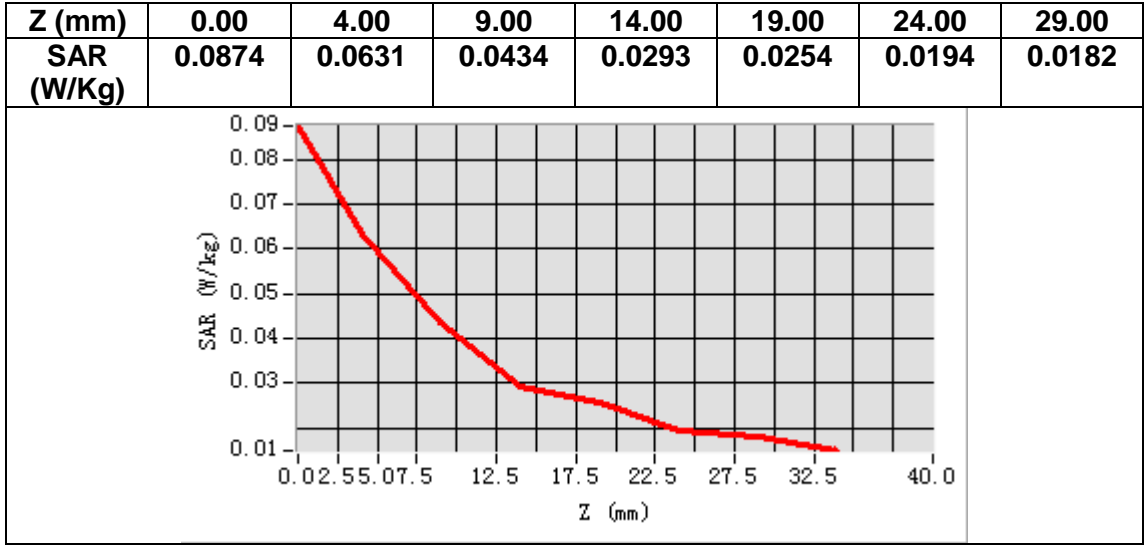
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.291401
Relative permittivity (imaginary part)	19.946489
Conductivity (S/m)	0.926958
Variation (%)	2.040000



Maximum location: X=1.00, Y=-57.00
SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.040724
SAR 1g (W/Kg)	0.062527



MEASUREMENT 19

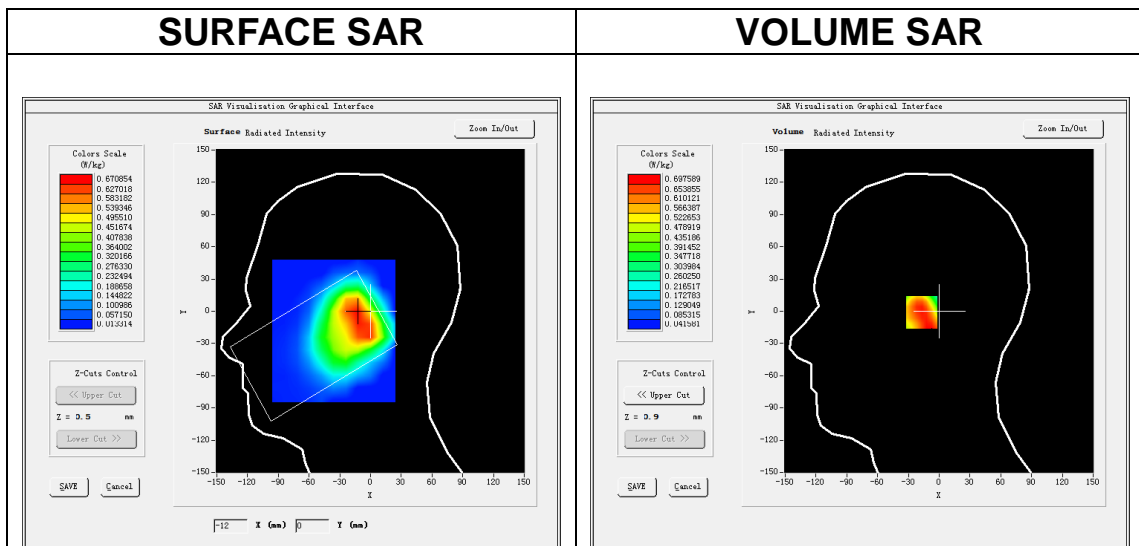
Date of measurement: 22/9/2022

A. Experimental conditions.

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

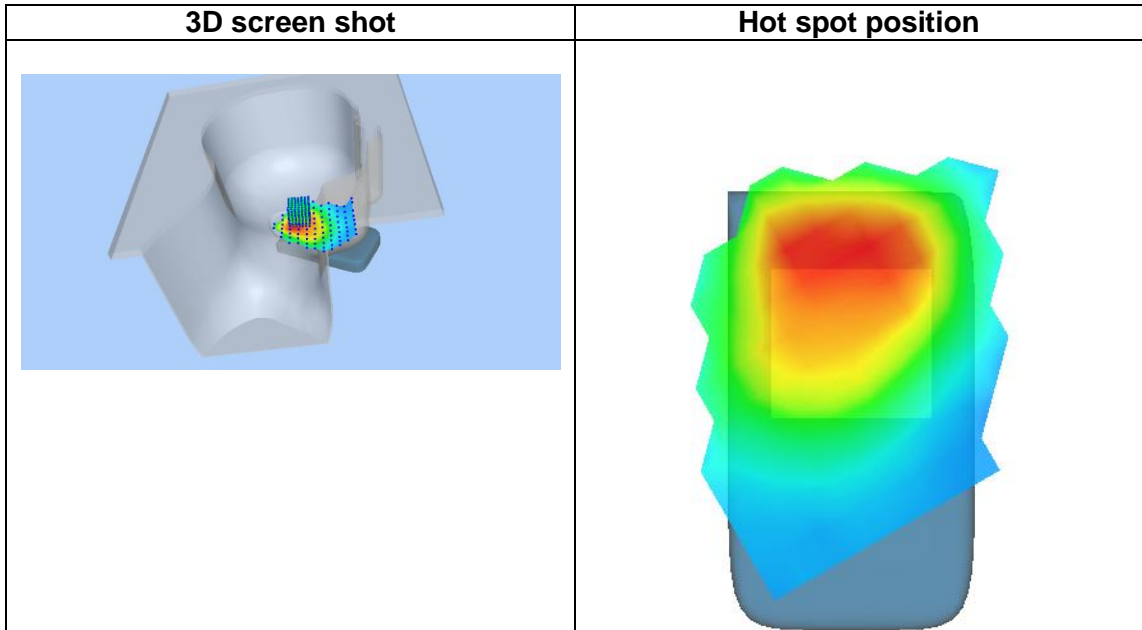
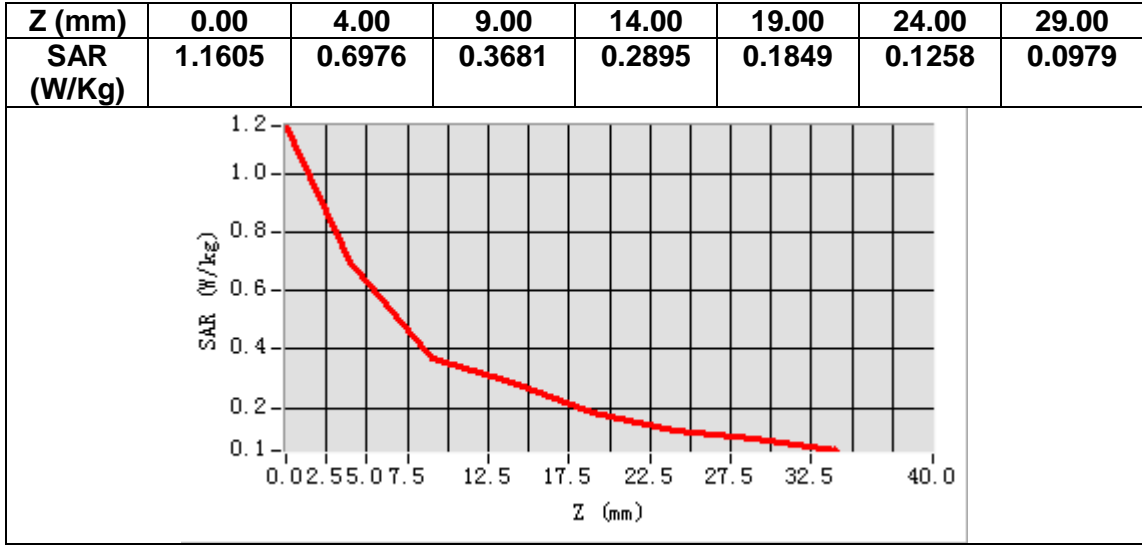
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.021152
Relative permittivity (imaginary part)	13.111235
Conductivity (S/m)	1.846499
Variation (%)	-0.730000



Maximum location: X=-14.00, Y=-1.00
SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.433678
SAR 1g (W/Kg)	0.658795



MEASUREMENT 20

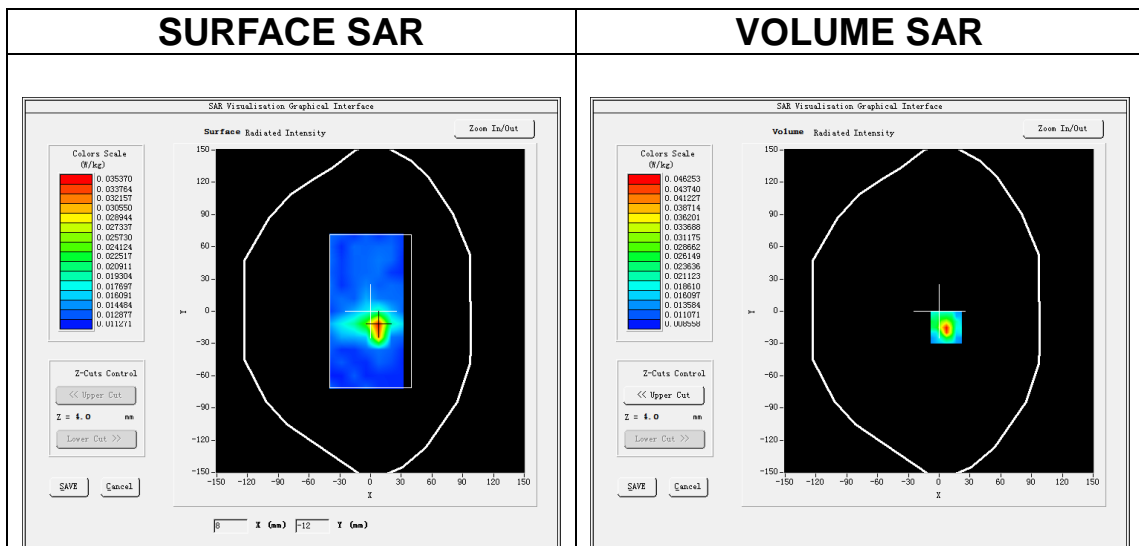
Date of measurement: 22/9/2022

A. Experimental conditions.

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

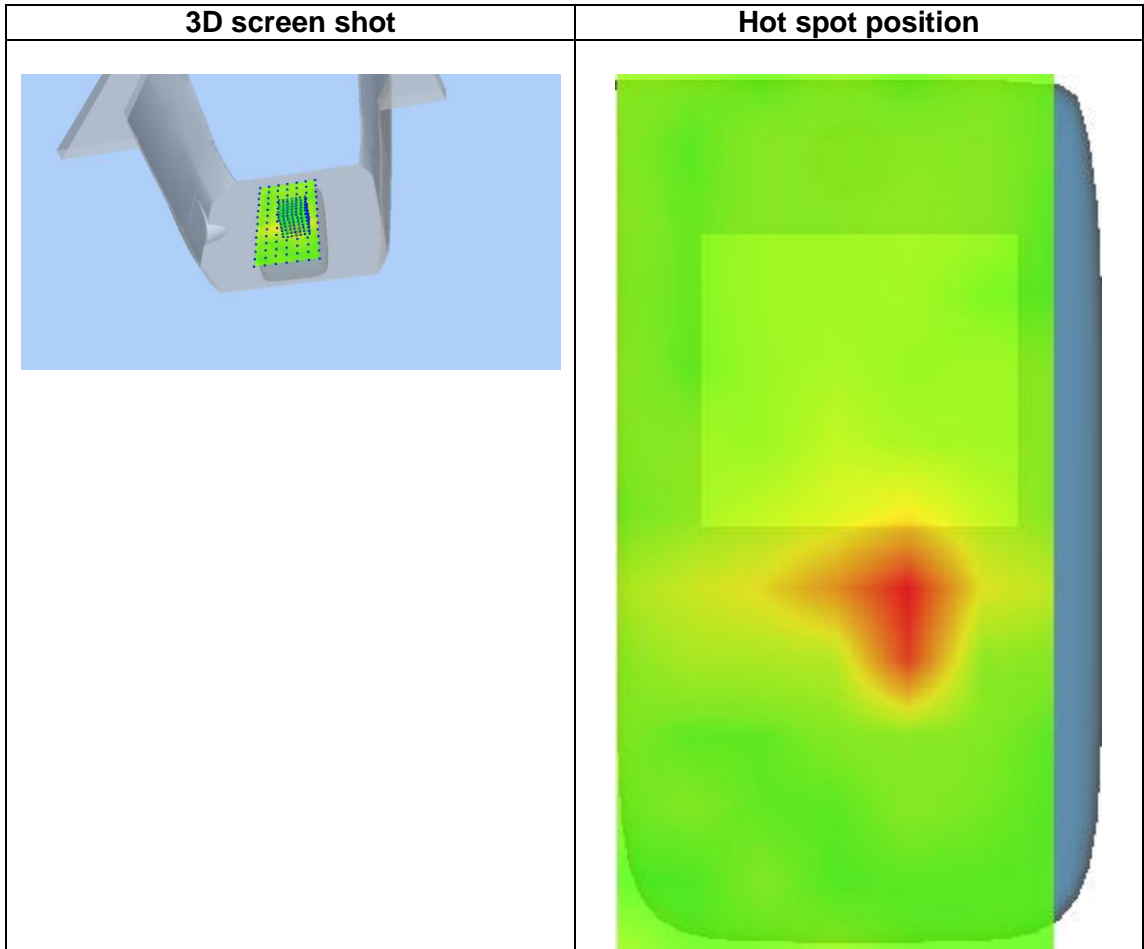
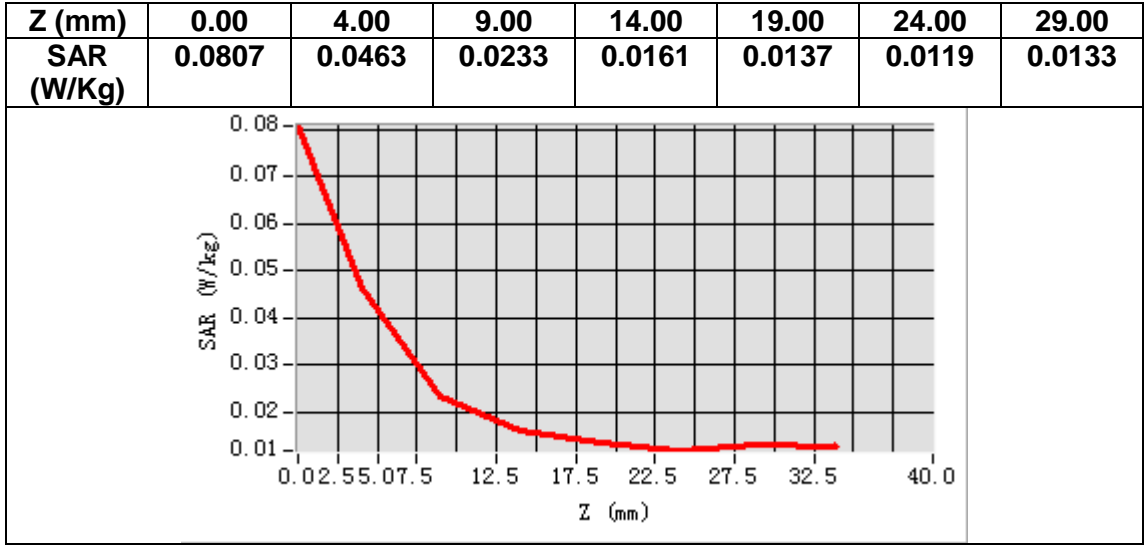
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.021152
Relative permittivity (imaginary part)	13.111235
Conductivity (S/m)	1.846499
Variation (%)	-0.220000



Maximum location: X=7.00, Y=-15.00
SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.020895
SAR 1g (W/Kg)	0.040143



MEASUREMENT 21

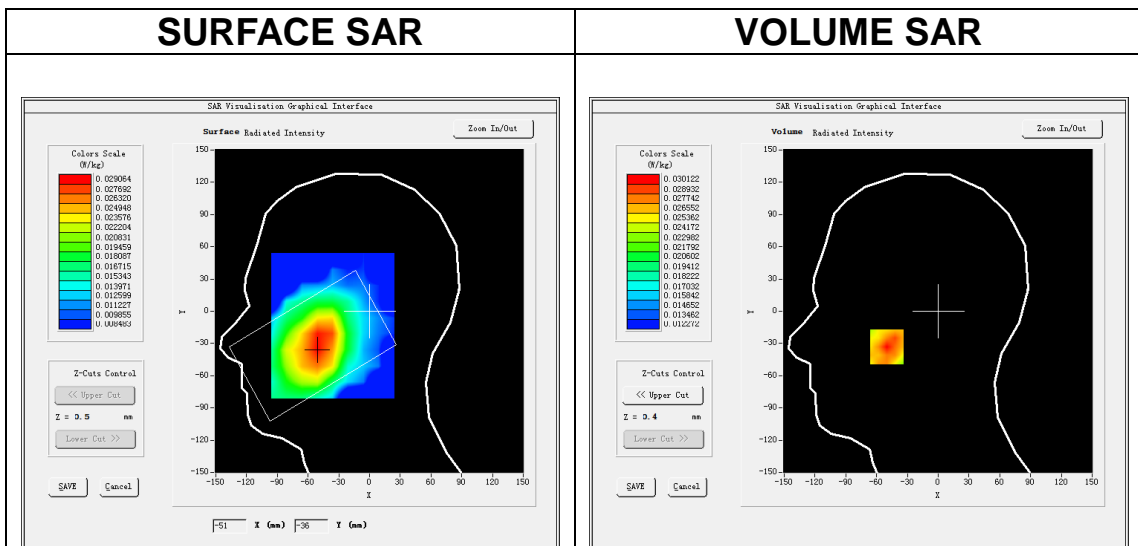
Date of measurement: 9/10/2022

A. Experimental conditions.

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

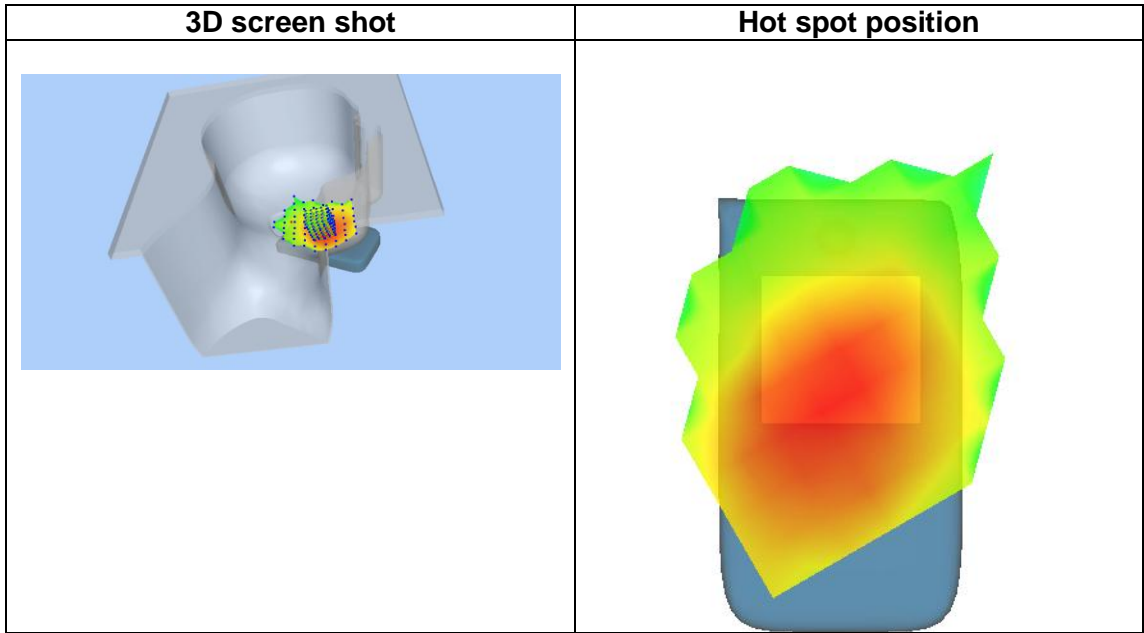
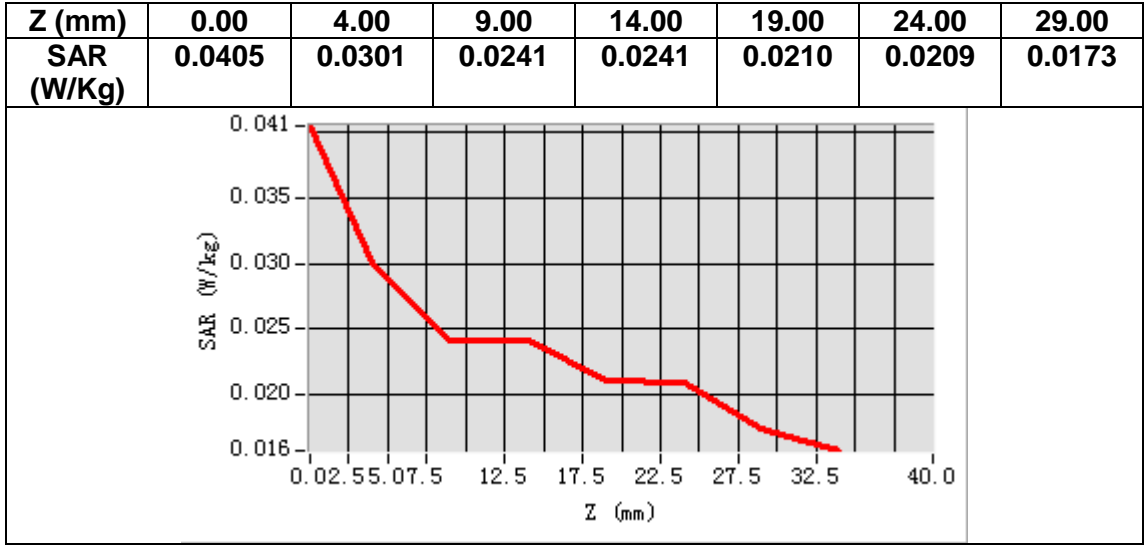
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	40.761253
Relative permittivity (imaginary part)	21.586189
Conductivity (S/m)	0.848457
Variation (%)	0.770000



Maximum location: X=-50.00, Y=-33.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.024632
SAR 1g (W/Kg)	0.029541



MEASUREMENT 22

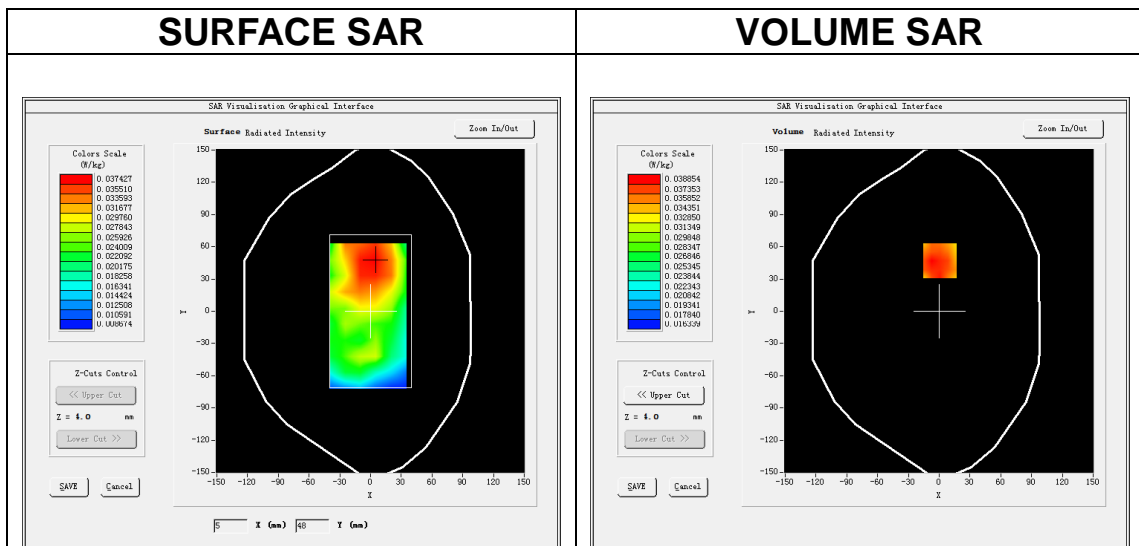
Date of measurement: 9/10/2022

A. Experimental conditions.

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

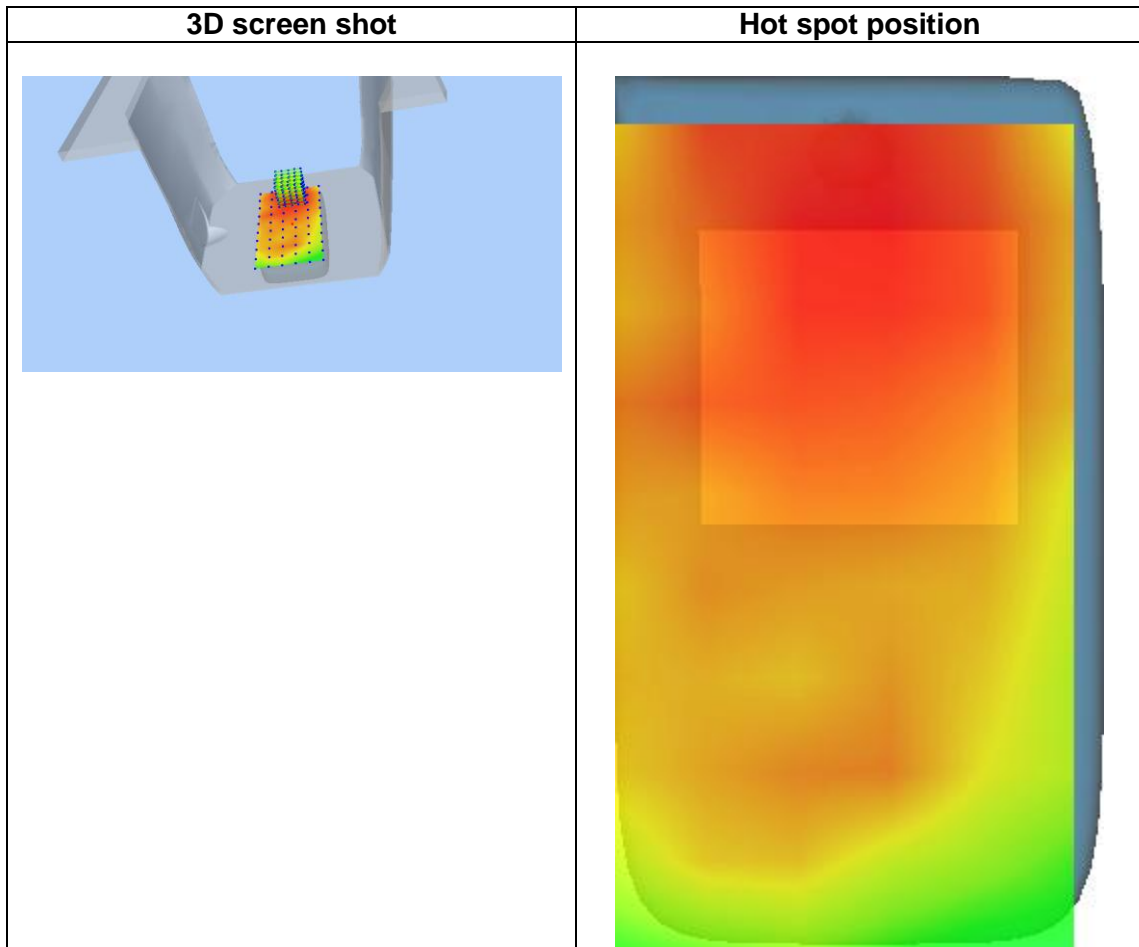
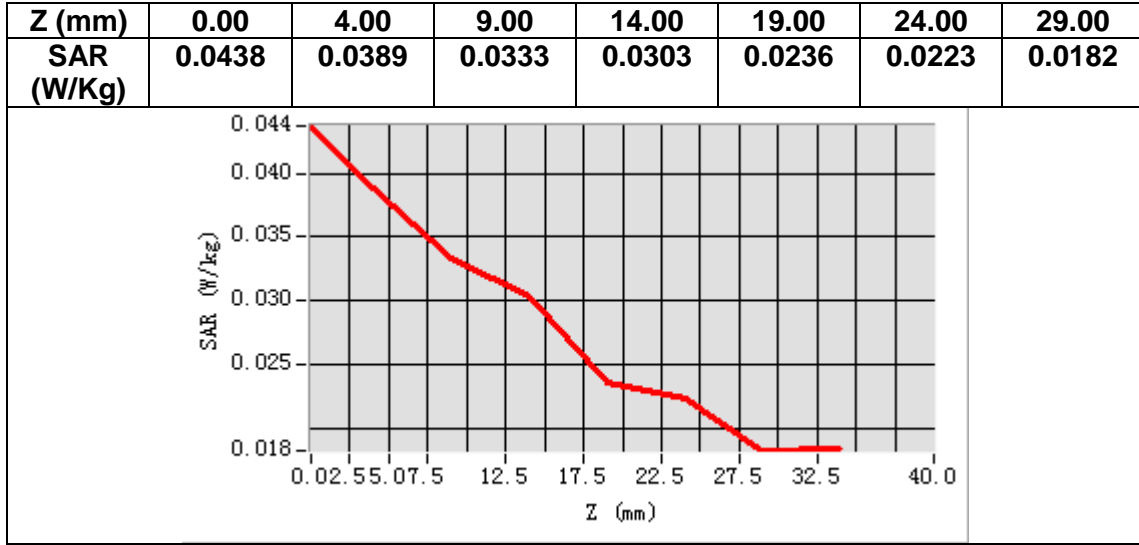
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	40.761253
Relative permittivity (imaginary part)	21.586189
Conductivity (S/m)	0.848457
Variation (%)	-1.540000



Maximum location: X=1.00, Y=47.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.031872
SAR 1g (W/Kg)	0.038225



MEASUREMENT 23

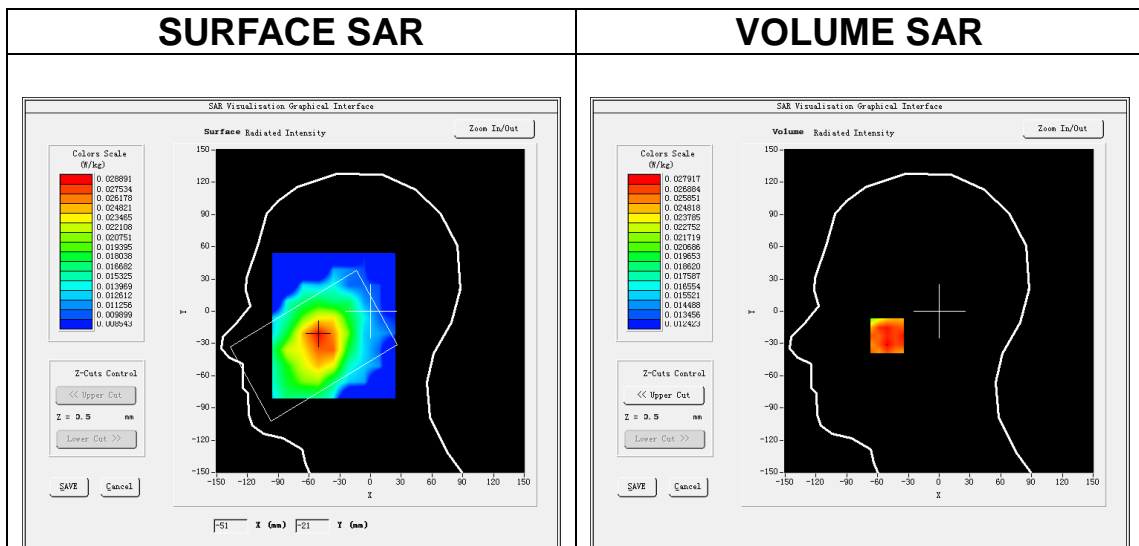
Date of measurement: 9/10/2022

A. Experimental conditions.

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

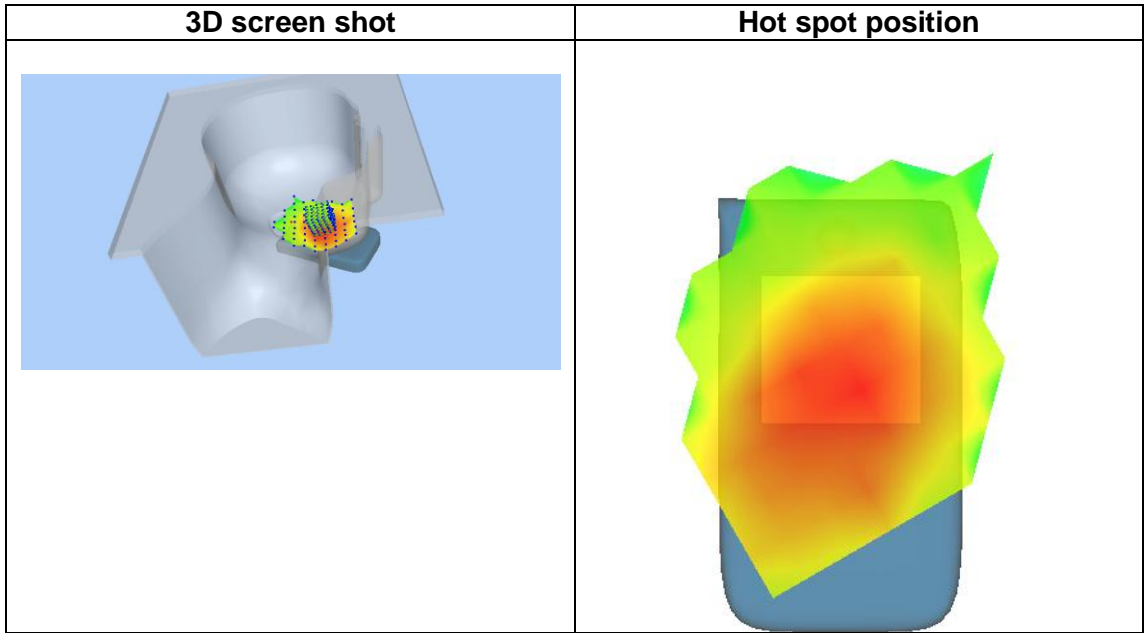
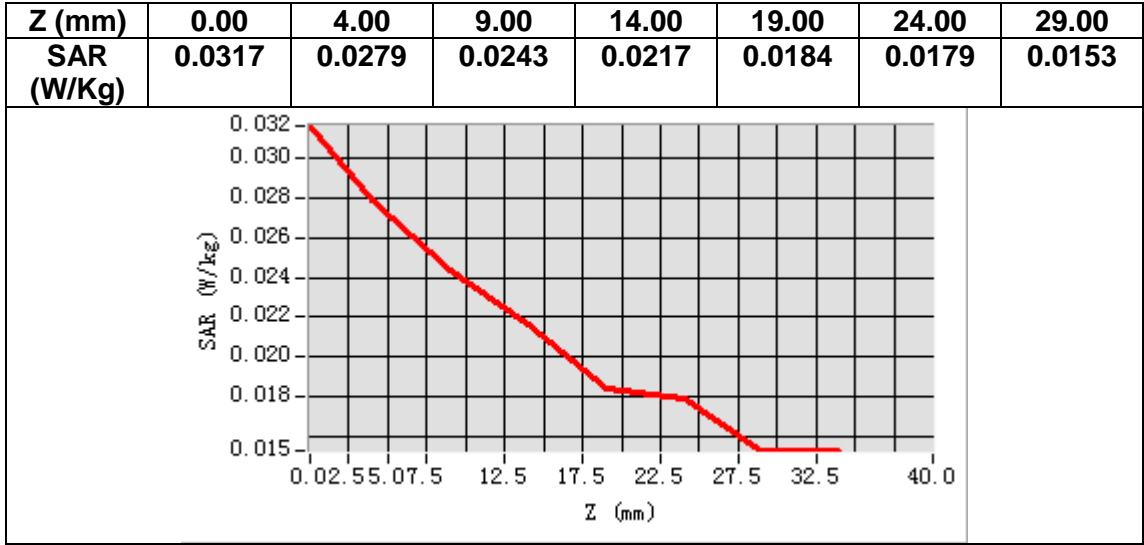
B. SAR Measurement Results

Frequency (MHz)	782.000000
Relative permittivity (real part)	39.873602
Relative permittivity (imaginary part)	20.843740
Conductivity (S/m)	0.905545
Variation (%)	-0.360000



Maximum location: X=-51.00, Y=-23.00
SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.023766
SAR 1g (W/Kg)	0.027721



MEASUREMENT 24

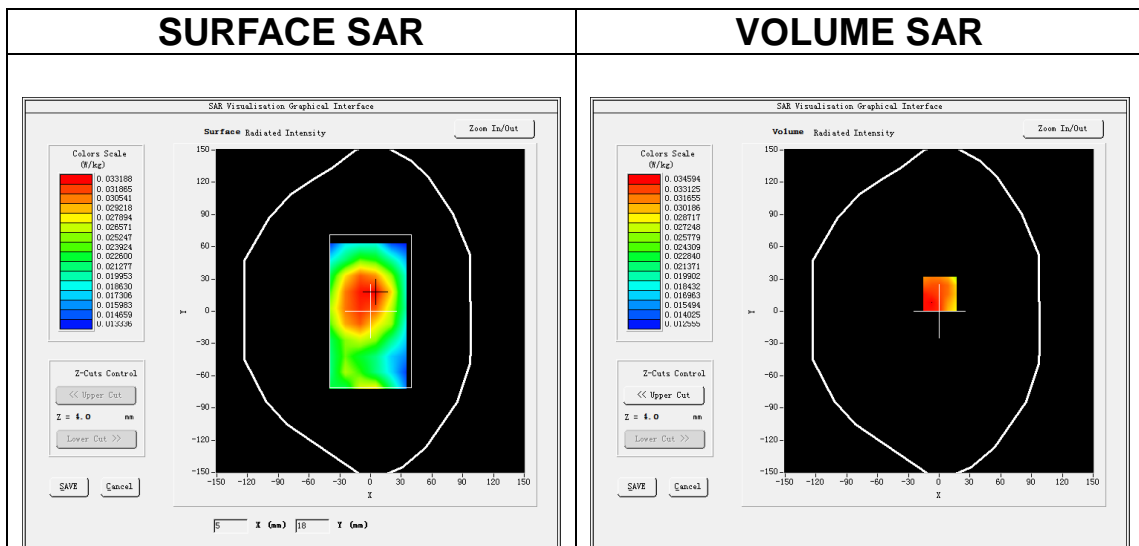
Date of measurement: 9/10/2022

A. Experimental conditions.

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

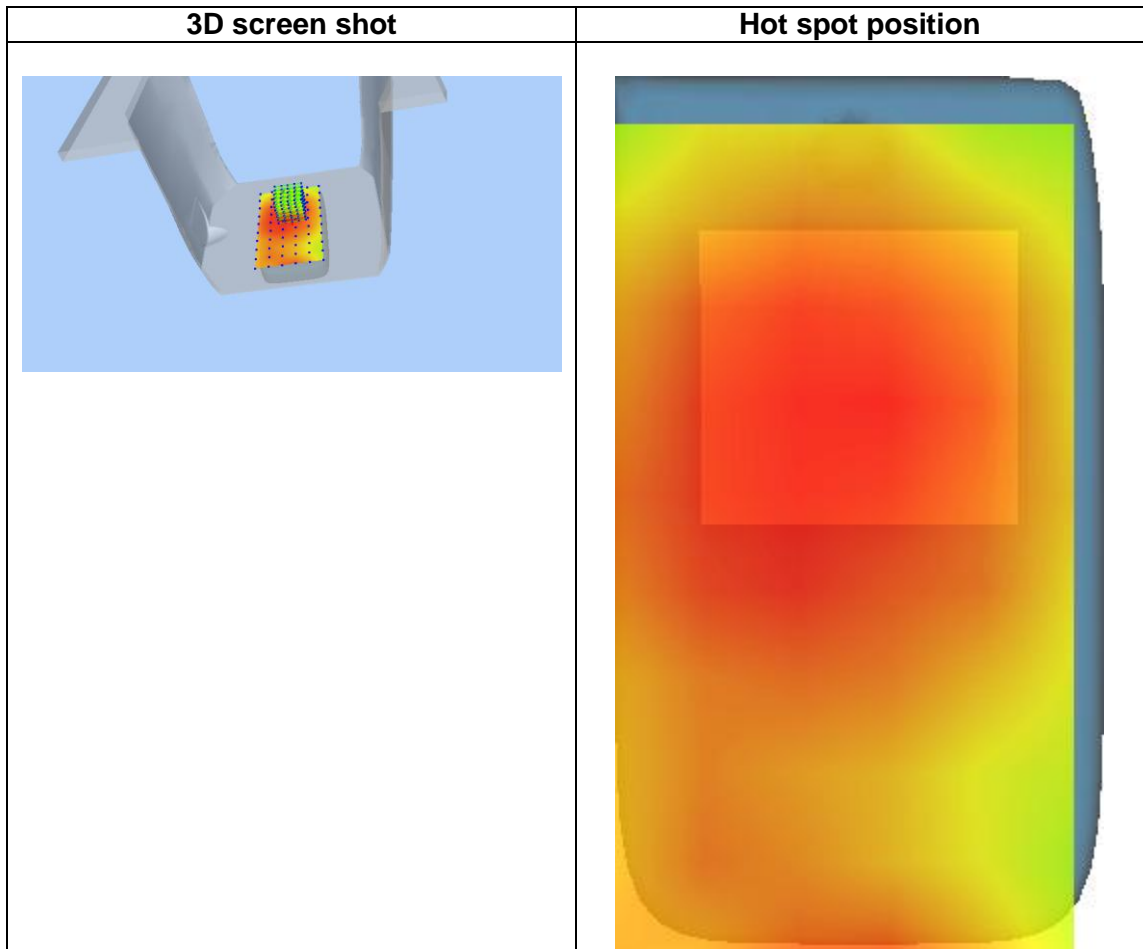
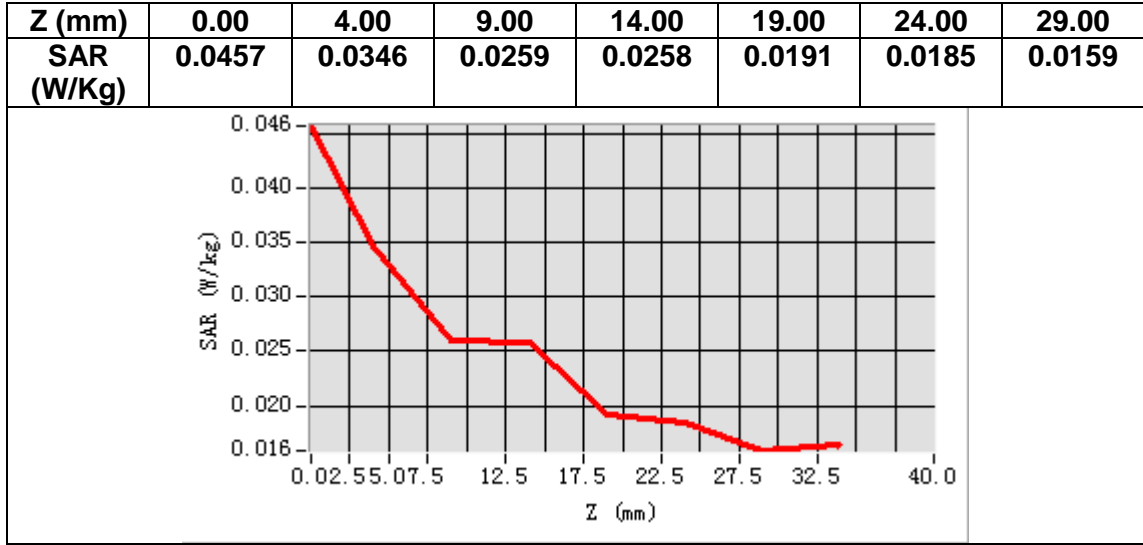
B. SAR Measurement Results

Frequency (MHz)	782.000000
Relative permittivity (real part)	39.873602
Relative permittivity (imaginary part)	20.843740
Conductivity (S/m)	0.905545
Variation (%)	0.880000



Maximum location: X=1.00, Y=16.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.027112
SAR 1g (W/Kg)	0.033544



MEASUREMENT 25

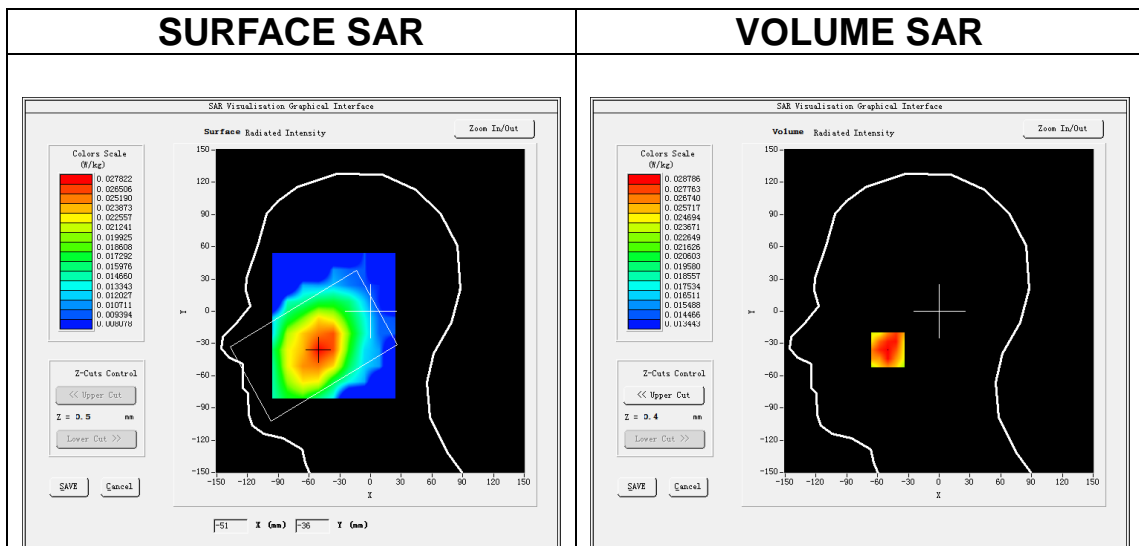
Date of measurement: 9/10/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 17</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

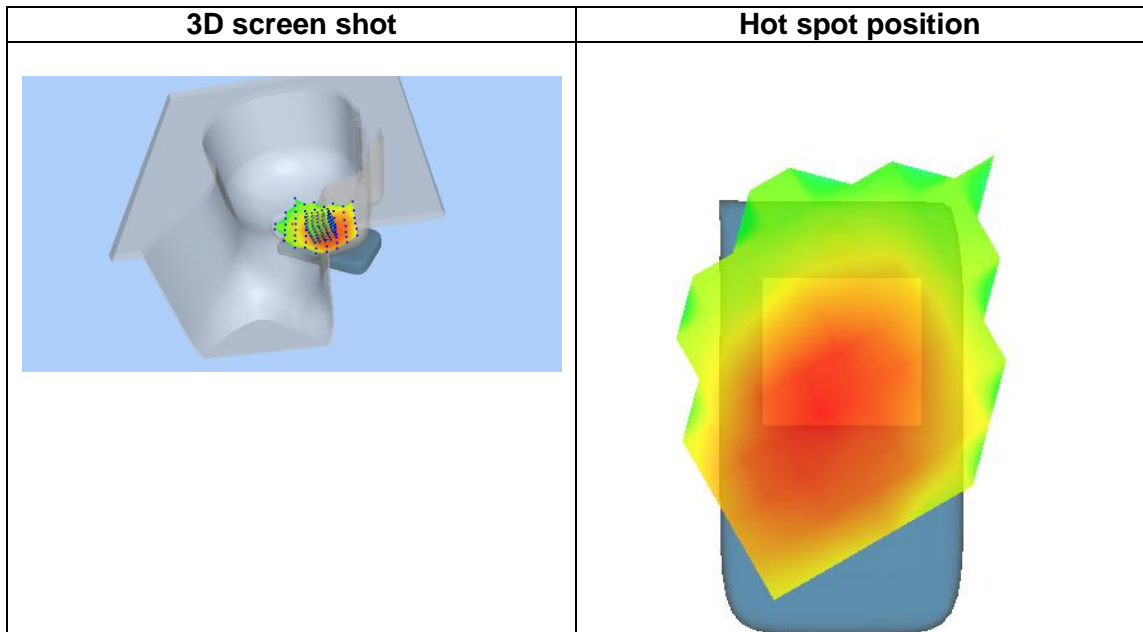
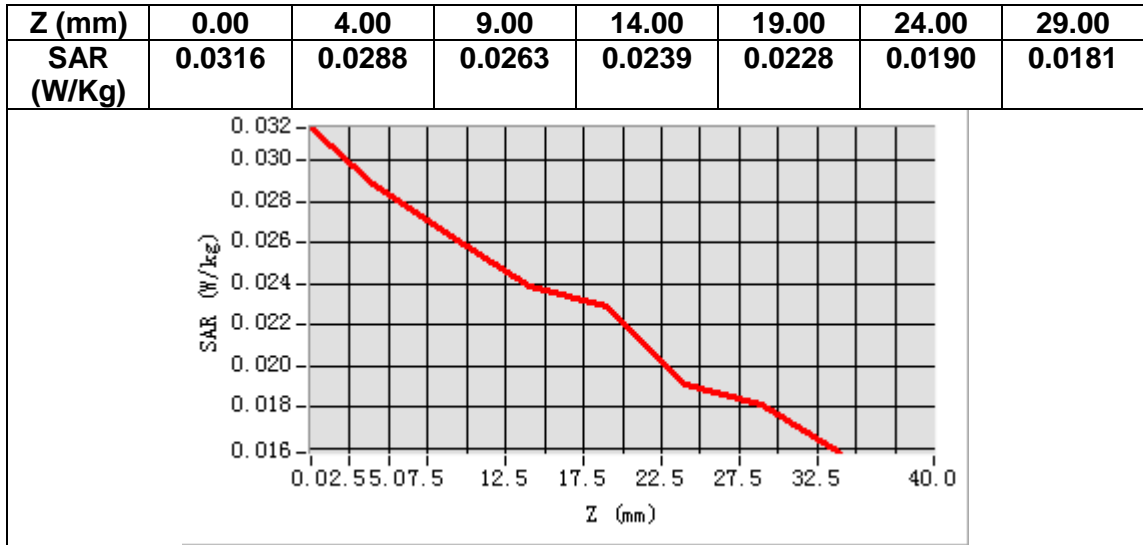
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	40.745903
Relative permittivity (imaginary part)	21.526640
Conductivity (S/m)	0.849106
Variation (%)	2.420000



Maximum location: X=-50.00, Y=-36.00
SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.024712
SAR 1g (W/Kg)	0.028456



MEASUREMENT 26

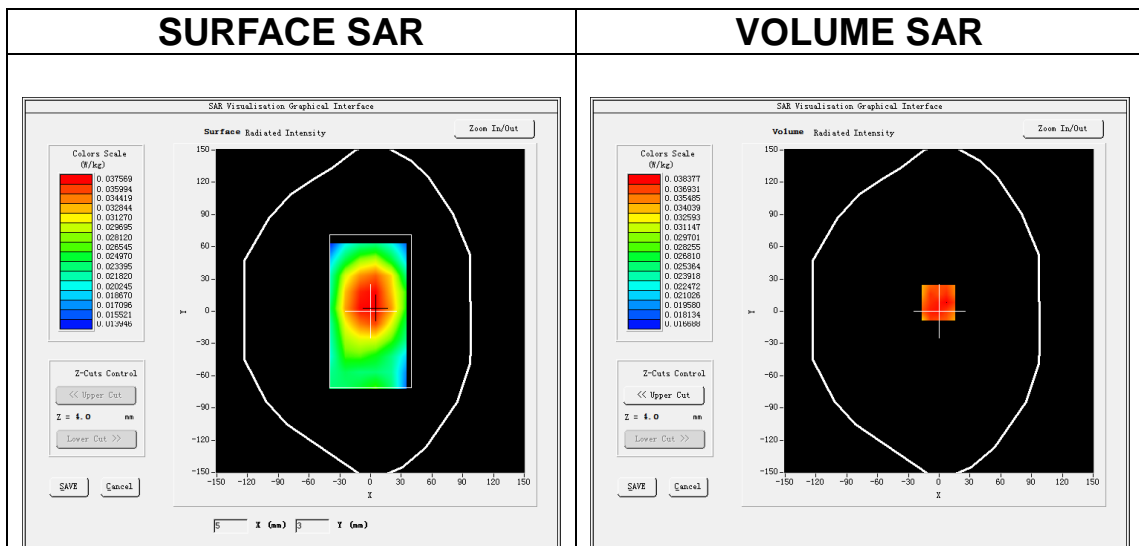
Date of measurement: 9/10/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 17</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

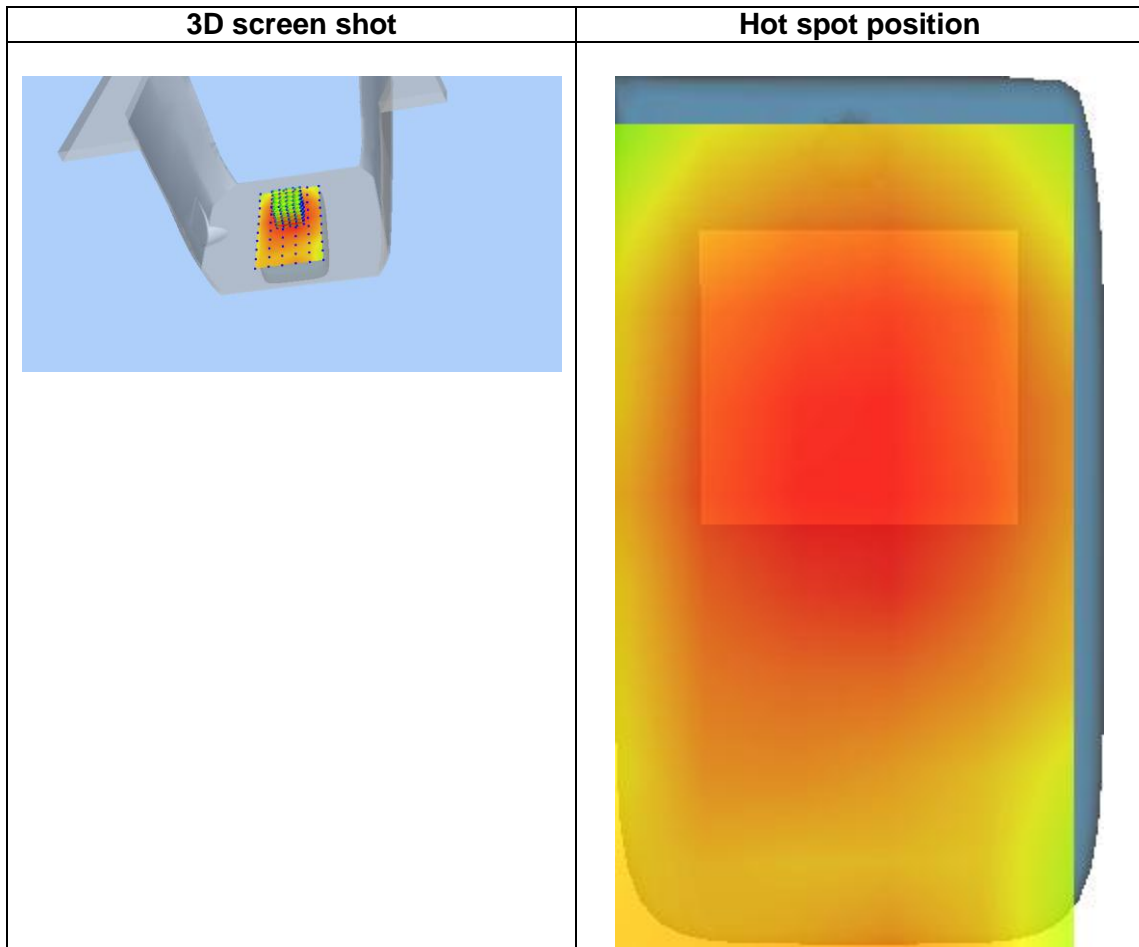
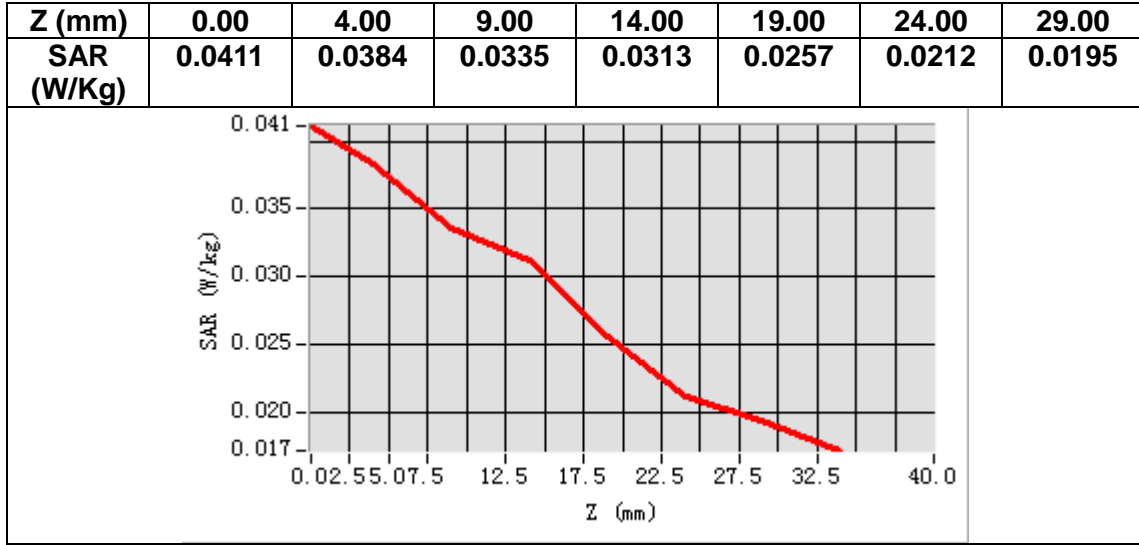
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	40.745903
Relative permittivity (imaginary part)	21.526640
Conductivity (S/m)	0.849106
Variation (%)	3.140000



Maximum location: X=-1.00, Y=8.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.032118
SAR 1g (W/Kg)	0.038155



MEASUREMENT 27

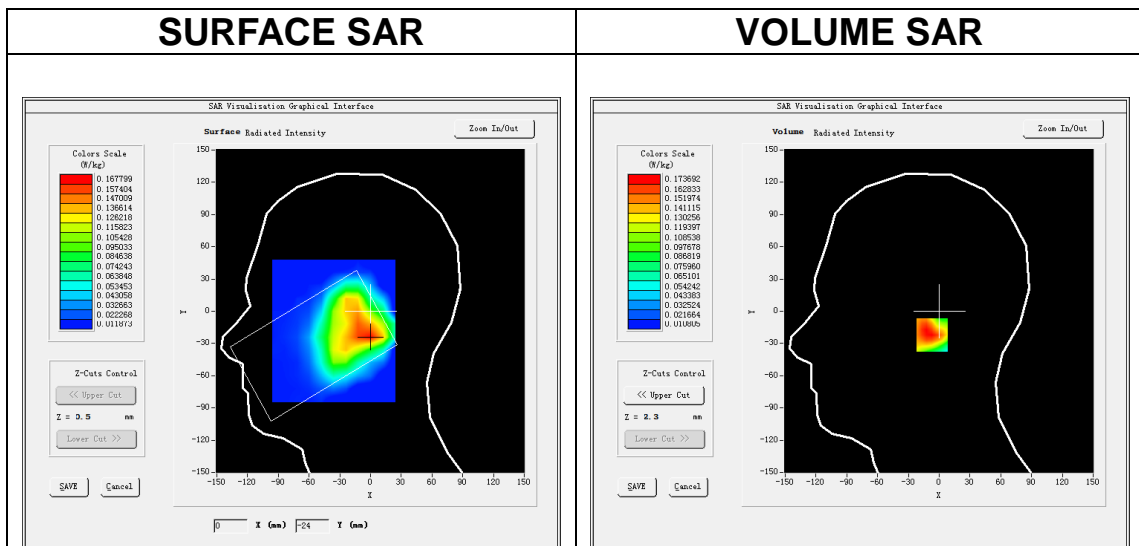
Date of measurement: 28/9/2022

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 40-1</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.6)</u>
ConvF	<u>1.92</u>

B. SAR Measurement Results

Frequency (MHz)	2310.000000
Relative permittivity (real part)	38.357862
Relative permittivity (imaginary part)	12.993969
Conductivity (S/m)	1.667559
Variation (%)	-3.910000



Maximum location: X=-1.00, Y=-22.00
SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.098624
SAR 1g (W/Kg)	0.165972

