

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 : Smart Phone

Brand Name : OUKITEL

Model Name : C90 Pro

Family Model : C90, C90 S

Report No. : S22082604108001

FCC ID : 2ANMU-C90PRO

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name : Smart Phone
Brand Name : OUKITEL
Model and/or type reference : C90 Pro
Family Model : C90, C90 S
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 : S220826041003

Date of Test

Date (s) of performance of tests: Aug. 29, 2022 ~ Sep. 14, 2022
Date of Issue : Oct. 18, 2022
Test Result : Pass

Prepared By (Test Engineer) : Jacob Chen (Jacob Chen)

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※ ※ Revision History ※ ※

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Rev.1.0	Initial Test Report Release	Oct. 18, 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 C90 Pro are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.352	0.508	0.671	N/A
1-g Body-Worn (Separation distance of 10mm)		1.189	0.254	0.351	N/A
1-g Hotspot (Separation distance of 10mm)		1.189	0.254	0.351	N/A
Max Simultaneous Tx	Head	1.023	0.860	1.023	0.686
	Body-Worn	1.540	1.443	1.540	1.356
	Hotspot	1.540	1.443	1.540	1.356

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	Smart Phone
Brand Name	OUKITEL
Model Name	C90 Pro
Family Model	C90, C90 S
Model Difference	All the model are the same circuit and RF module, except the model name.
FCC ID	2ANMU-C90PRO
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery Information	DC 3.87V, 4800mAh, 18.576Wh
HW Version	TF968_MAIN_PCB_V1.2
SW Version	OUKITEL_C90Pro_EEA_V01
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, Band 2/4/5, LTE Band 2/4/5/7/12/17, NR SA n41, WLAN 2.4G/5G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM),

	NR(DFT-s-OFDM:PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM CP-OFDM: QPSK/16-QAM/64QAM/256QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK), NFC(ASK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	NR SA n41	2496-2690	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
NFC	13.56		
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		

	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(NR Band n41)

1.4. Test specification(s)

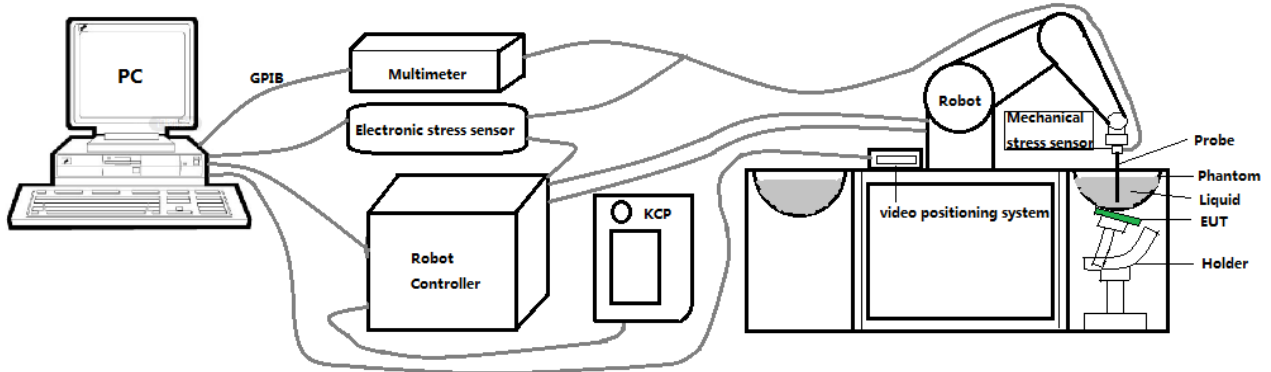
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225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

2.4.1. Technical Data

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

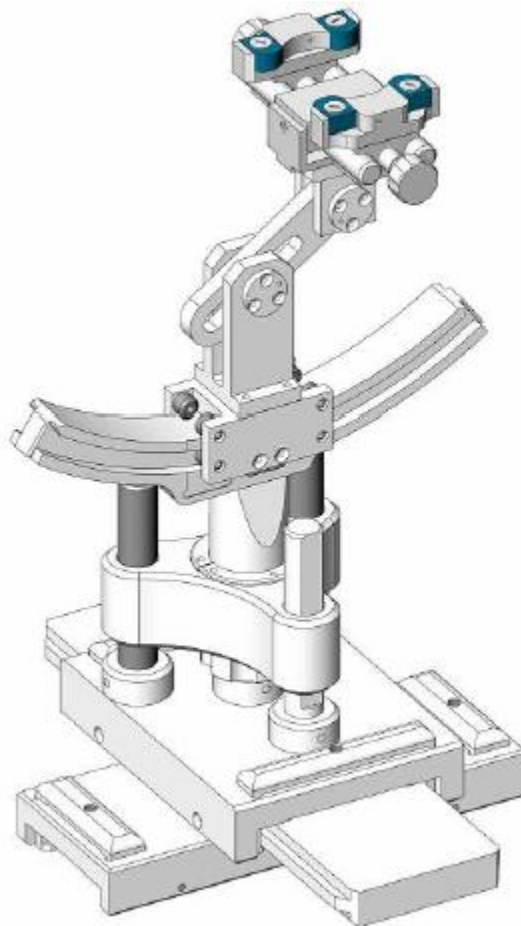


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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 type="checkbox"/>	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
<input checked="" type="checkbox"/>	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
<input checked="" type="checkbox"/>	R&S	Universal radio communication tester	CMU200	117858	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	R&S	Wideband radio communication tester	CMW500	103917	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	Jun. 17, 2022	Jun. 16, 2023

<input checked="" type="checkbox"/>	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Jun. 16, 2022	Jun. 15, 2023
<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	Jun. 17, 2022	Jun. 16, 2023
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 17, 2020	Jul. 16, 2023
<input type="checkbox"/>	Anritsu	Radio Communication Analyzer	MT8821C	SN 6262186364	Nov. 04, 2021	Nov. 03, 2022
<input checked="" type="checkbox"/>	Anritsu	Radio Communication Test Station	MT8000A	SN 6262192315	Nov. 04, 2021	Nov. 03, 2022

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.

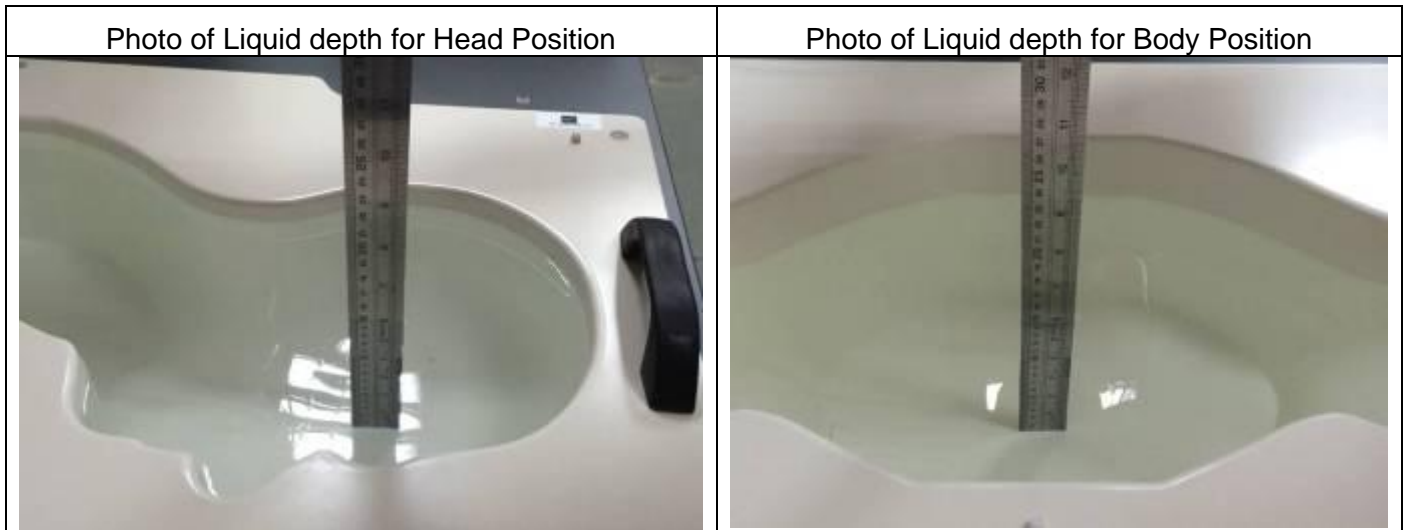
4. System Verification Procedure

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.

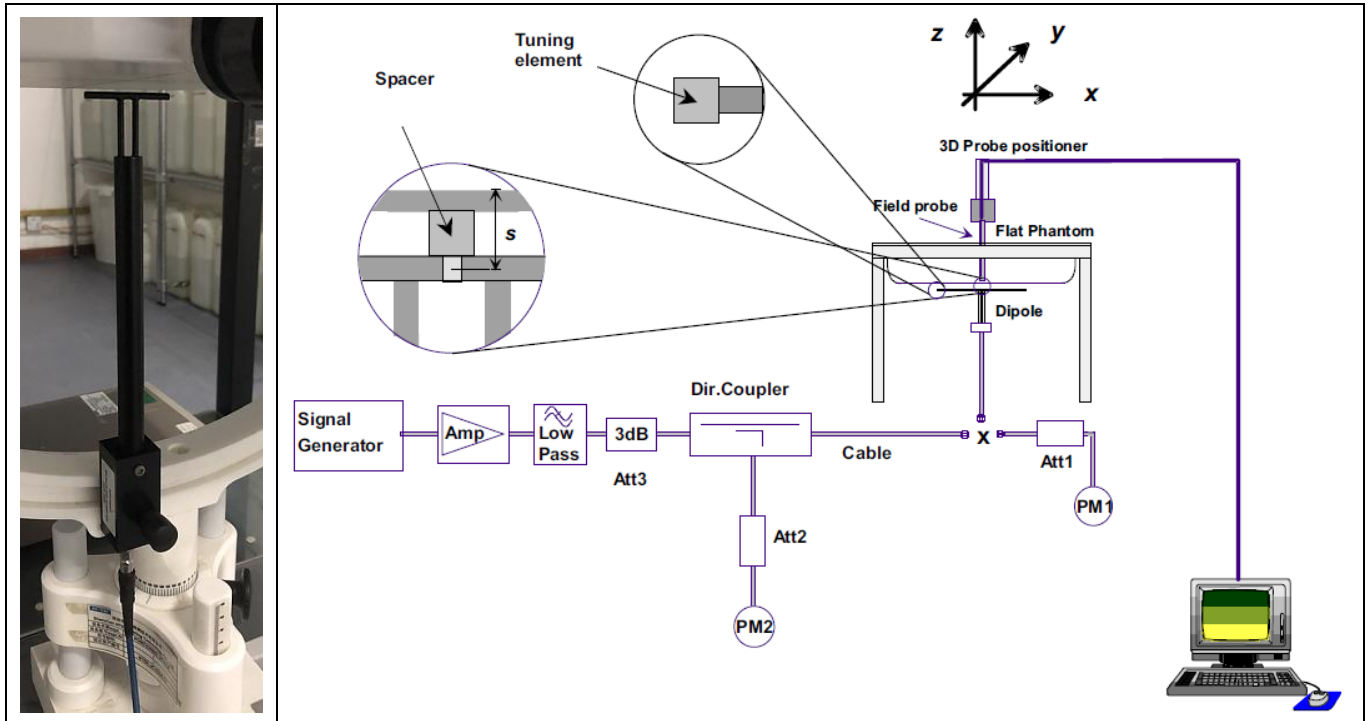
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.13	0.89	21.7 °C	Sep. 01, 2022
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.50	0.93	21.4 °C	Sep. 12, 2022
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.61	1.40	21.2 °C	Sep. 02, 2022
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.48	1.46	21.8 °C	Sep. 14, 2022
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.92	1.79	21.1 °C	Sep. 07, 2022
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	37.82	1.93	21.6 °C	Sep. 06, 2022
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.36	4.52	21.6 °C	Aug. 31, 2022
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.26	5.13	21.3 °C	Aug. 29, 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)	7.89	5.50	21.7 °C	Sep. 01, 2022
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	10.20	6.79	21.4 °C	Sep. 12, 2022
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	40.81	19.48	21.2 °C	Sep. 02, 2022
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	41.75	18.77	21.8 °C	Sep. 14, 2022
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	57.30	24.31	21.1 °C	Sep. 07, 2022
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	50.98	25.21	21.6 °C	Sep. 06, 2022
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	148.71	55.13	21.6 °C	Aug. 31, 2022
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	195.16	58.75	21.3 °C	Aug. 29, 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.

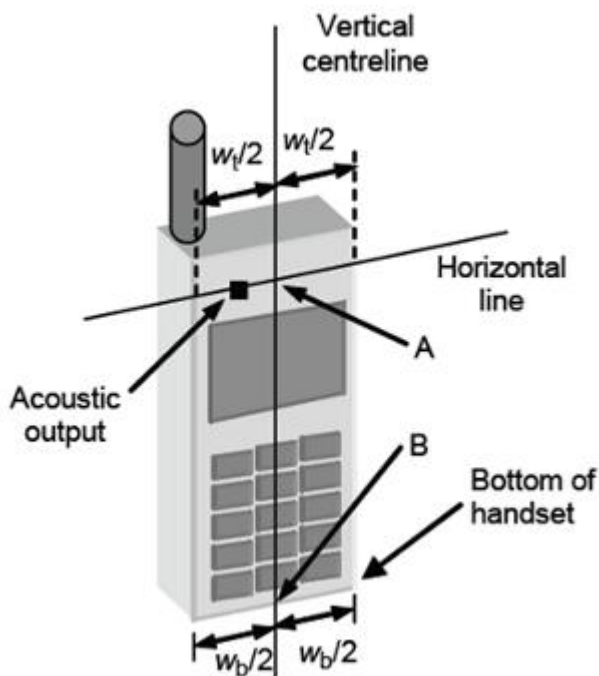


Fig 6.2.1 Handset vertical and horizontal reference lines—“fixed case”

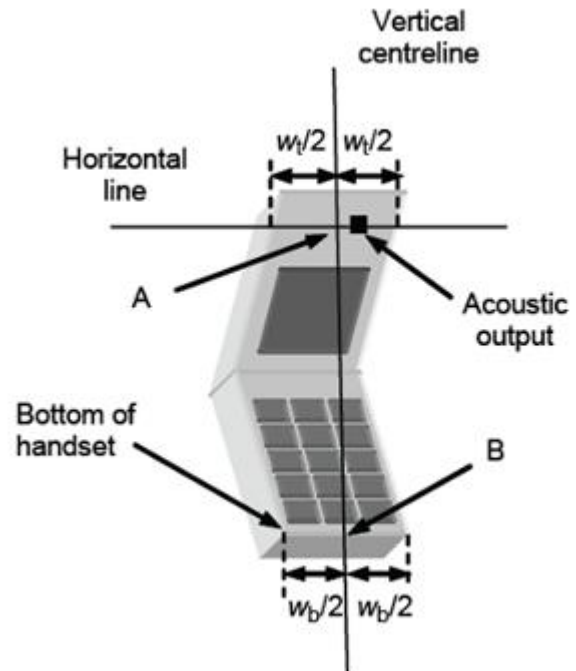


Fig 6.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

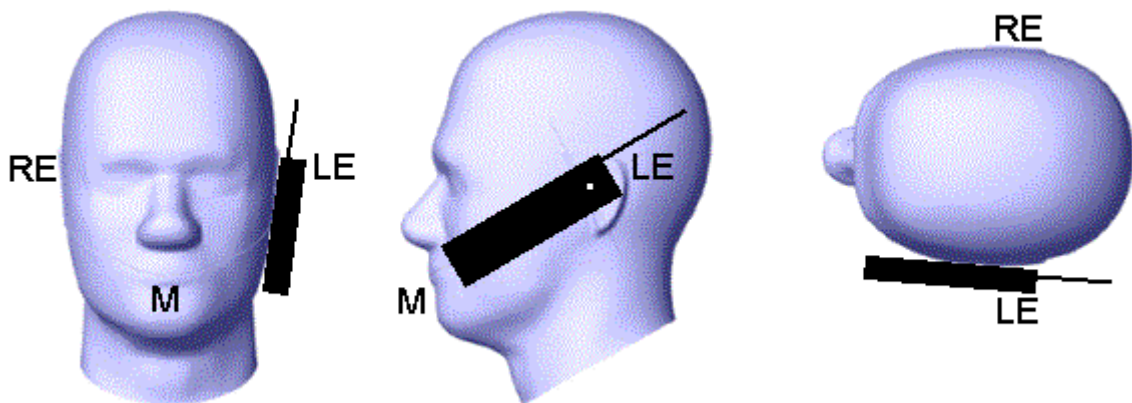


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

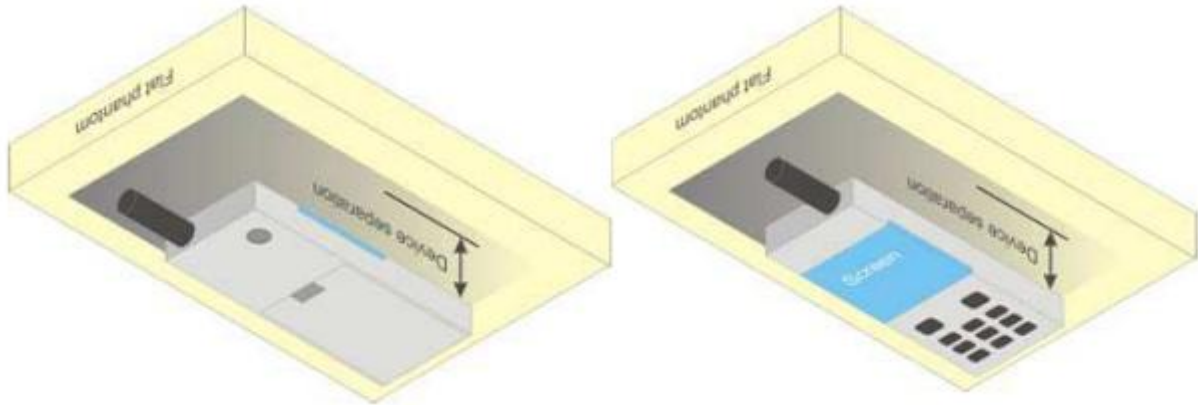


Figure 6.4.1 – Test positions for body-worn devices

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	32.52	32.58	32.55	23.97	23.49	23.55	23.52
GPRS(GMSK,1 Tx slot)	32.50	32.43	32.47	32.44	23.47	23.40	23.44	23.41
GPRS(GMSK,2 Tx slot)	32.00	31.67	31.70	31.71	25.98	25.65	25.68	25.69
GPRS(GMSK,3 Tx slot)	30.00	29.90	29.95	29.95	25.74	25.64	25.69	25.69
GPRS(GMSK,4 Tx slot)	29.00	28.84	28.87	28.88	25.99	25.83	25.86	25.87
EGPRS(8PSK,1 Tx slot)	26.00	25.69	25.63	25.70	16.97	16.66	16.60	16.67
EGPRS(8PSK,2 Tx slot)	25.00	24.33	24.39	24.68	18.98	18.31	18.37	18.66
EGPRS(8PSK,3 Tx slot)	23.00	22.48	22.63	22.10	18.74	18.22	18.37	17.84
EGPRS(8PSK,4 Tx slot)	21.50	20.91	21.33	20.82	18.49	17.90	18.32	17.81
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8
GSM (GMSK)	30.50	29.61	30.11	30.26	21.47	20.58	21.08	21.23
GPRS(GMSK,1 Tx slot)	30.50	29.59	30.09	30.24	21.47	20.56	21.06	21.21
GPRS(GMSK,2 Tx slot)	30.00	28.84	29.35	29.53	23.98	22.82	23.33	23.51
GPRS(GMSK,3 Tx slot)	28.00	27.06	27.61	27.81	23.74	22.80	23.35	23.55
GPRS(GMSK,4 Tx slot)	27.00	25.92	26.48	26.71	23.99	22.91	23.47	23.70
EGPRS(8PSK,1 Tx slot)	25.00	23.87	24.00	24.55	15.97	14.84	14.97	15.52
EGPRS(8PSK,2 Tx slot)	24.00	22.88	23.35	23.79	17.98	16.86	17.33	17.77
EGPRS(8PSK,3 Tx slot)	21.50	20.54	20.73	21.27	17.24	16.28	16.47	17.01
EGPRS(8PSK,4 Tx slot)	20.50	19.26	19.80	20.09	17.49	16.25	16.79	17.08

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)	(dBm)	1852.4	1880	1907.6
RMC12.2K	23.50	22.69	23.14	23.25
HSDPA Sub 1	22.50	21.98	22.13	22.44
HSDPA Sub 2	22.00	21.69	21.81	21.76

HSDPA Sub 3	21.00	20.37	20.76	20.93
HSDPA Sub 4	21.50	20.42	20.71	21.10
HSUPA Sub 1	22.50	21.15	21.98	22.24
HSUPA Sub 2	22.50	21.87	21.98	22.26
HSUPA Sub 3	21.50	20.41	20.88	21.43
HSUPA Sub 4	22.50	21.96	22.14	22.44
HSUPA Sub 5	22.00	20.70	21.43	21.79
WCDMA Band 4	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	23.50	22.95	22.91	23.09
HSDPA Sub 1	22.50	21.97	21.93	22.12
HSDPA Sub 2	22.00	21.68	21.57	21.71
HSDPA Sub 3	21.00	20.51	20.50	20.35
HSDPA Sub 4	20.50	20.44	20.13	20.16
HSUPA Sub 1	22.00	20.89	21.77	21.86
HSUPA Sub 2	22.00	22.00	21.80	21.95
HSUPA Sub 3	21.00	20.13	20.74	20.91
HSUPA Sub 4	22.50	21.99	21.93	22.12
HSUPA Sub 5	22.00	20.85	21.13	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	23.00	22.68	22.46	22.44
HSDPA Sub 1	22.00	21.68	21.46	21.43
HSDPA Sub 2	21.50	21.16	20.97	20.92
HSDPA Sub 3	20.50	20.30	19.90	19.72
HSDPA Sub 4	20.50	19.81	19.81	20.16
HSUPA Sub 1	21.50	19.97	21.24	21.24
HSUPA Sub 2	22.00	21.57	21.31	21.36
HSUPA Sub 3	20.50	19.98	20.26	19.89
HSUPA Sub 4	22.00	21.65	21.44	21.43
HSUPA Sub 5	21.00	20.34	20.62	20.81

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration	Tune-up (dBm)	Channel/Frequency(MHz)
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Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	1.4MHz	QPSK	1	0	24.00	18607/1850.7	18900/1880	19193/1909.3
			1	2	24.00	23.34	23.66	23.50
			1	5	24.00	23.32	23.64	23.34
			3	0	24.00	23.20	23.65	23.23
			3	1	24.00	23.31	24.00	23.36
			3	2	24.00	23.23	24.00	23.31
			6	0	23.50	23.17	23.93	23.26
		16QAM	1	0	23.50	22.84	23.17	23.32
			1	2	23.50	22.54	22.91	23.20
			1	5	23.50	22.54	22.95	23.19
			3	0	23.50	22.42	22.89	23.19
			3	0	23.50	22.93	23.29	23.15
			3	1	23.50	22.90	23.28	23.12
			3	2	23.50	22.84	23.21	23.04
6	0	23.00	21.93	22.29	22.66			
LTE Band 2	3MHz	QPSK	1	0	24.00	18615/1851.5	18900/1880	19185/1908.5
			1	7	24.00	23.01	23.61	23.81
			1	14	24.00	22.72	23.65	23.20
			8	0	24.00	22.63	23.49	23.05
			8	0	24.00	22.80	23.15	23.53
			8	4	24.00	22.77	23.15	23.27
			8	7	24.00	22.71	23.14	23.15
		16QAM	15	0	23.50	22.81	23.18	23.33
			1	0	23.50	22.51	22.94	23.25
			1	7	23.50	22.53	22.94	23.20
			1	14	23.50	22.54	22.95	23.06
			8	0	23.00	21.93	22.23	22.69
			8	4	23.00	21.91	22.26	22.67
			8	7	23.00	21.87	22.27	22.62
LTE Band	5MHz	QPSK	15	0	23.00	21.88	22.26	22.62
			1	0	24.00	22.86	23.67	24.00
			1	12	24.00	22.45	23.51	23.27

2			1	24	24.00	22.24	22.95	22.73
			12	0	24.00	22.69	23.25	23.70
			12	6	24.00	22.49	23.23	23.35
			12	11	24.00	22.36	23.19	22.96
			25	0	23.50	22.52	23.22	23.37
		16QAM	1	0	23.50	22.56	22.90	23.31
			1	12	23.50	22.55	22.90	23.25
			1	24	23.50	22.40	22.93	22.78
			12	0	23.00	21.89	22.28	22.69
			12	6	23.00	21.87	22.21	22.62
			12	11	23.00	21.81	22.21	22.58
			25	0	23.00	21.91	22.27	22.69
			Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)
RB Size	RB Offset	18650/1855				18900/1880	19150/1905	
LTE Band 2	10MHz	QPSK	1	0	24.00	22.73	23.66	23.73
			1	24	24.00	22.58	23.63	23.88
			1	49	24.00	22.79	22.90	22.95
			25	0	24.00	22.65	23.28	23.68
			25	12	24.00	22.59	23.23	23.62
			25	24	24.00	22.71	23.17	23.47
			50	0	24.00	22.67	23.24	23.55
		16QAM	1	0	23.50	22.57	22.93	23.38
			1	24	23.50	22.49	22.96	23.31
			1	49	23.50	22.53	23.01	23.01
			25	0	23.00	21.91	22.32	22.72
			25	12	23.00	21.90	22.28	22.67
			25	24	23.00	21.92	22.25	22.54
			50	0	23.00	21.90	22.25	22.59
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	24.00	22.71	23.54	22.95
			1	37	24.00	22.62	23.57	23.90
			1	74	24.00	23.34	22.66	22.97
			36	0	24.00	22.66	23.20	23.54
			36	18	24.00	22.74	23.22	23.61
			36	37	24.00	22.93	23.15	23.54

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
		16QAM	75	0	24.00	22.89	23.26	23.56
			1	0	23.50	22.47	22.76	22.99
			1	37	23.50	22.54	22.93	23.35
			1	74	23.50	22.62	22.85	22.93
			36	0	23.00	21.86	22.22	22.63
			36	18	23.00	21.89	22.21	22.66
			36	37	23.00	21.96	22.22	22.56
			75	0	23.00	21.92	22.27	22.57
LTE Band 2	20MHz	QPSK	1	0	24.00	22.36	23.55	22.36
			1	49	24.00	22.76	23.42	23.41
			1	99	24.00	23.44	22.08	22.65
			50	0	24.00	22.59	23.32	22.84
			50	24	24.00	22.91	23.27	23.45
			50	49	24.00	23.14	22.84	23.52
			100	0	23.50	22.97	23.25	23.25
		16QAM	1	0	23.50	22.38	22.73	22.44
			1	49	23.50	22.60	22.88	23.36
			1	99	23.50	22.73	22.25	22.71
			50	0	23.00	21.85	22.30	22.51
			50	24	23.00	21.97	22.29	22.68
			50	49	23.00	22.11	22.22	22.54
			100	0	23.00	21.96	22.23	22.52

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	24.50	23.79	24.07	24.19
			1	2	24.50	23.82	24.10	24.22
			1	5	24.50	23.77	24.08	24.19
			3	0	24.50	23.81	24.15	24.24
			3	1	24.50	23.79	24.15	24.29
			3	2	24.50	23.82	24.13	24.27
			6	0	23.50	22.80	23.17	23.25
			16QAM	1	0	24.00	23.08	23.33
		1		2	24.00	22.99	23.31	23.54

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
			1	5	24.00	22.93	23.35	23.45
			3	0	23.50	22.76	23.22	23.34
			3	1	23.50	22.83	23.20	23.26
			3	2	23.50	22.83	23.21	23.30
			6	0	22.50	21.82	22.22	22.38
LTE Band 4	3MHz	QPSK	1	0	24.50	23.78	24.08	23.66
			1	7	24.50	23.68	23.61	23.72
			1	14	24.50	23.55	23.61	23.68
			8	0	23.50	22.83	23.14	23.27
			8	4	23.50	22.76	23.12	23.25
			8	7	23.50	22.78	23.12	23.26
			15	0	23.50	22.79	23.12	23.24
		16QAM	1	0	23.50	22.58	22.87	23.01
			1	7	23.50	22.76	22.75	22.93
			1	14	23.50	22.51	22.90	23.01
			8	0	22.50	21.90	22.24	22.30
			8	4	22.50	21.85	22.23	22.36
			8	7	22.50	21.83	22.26	22.33
			15	0	22.50	21.82	22.22	22.28
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	24.50	23.33	23.67	23.65
			1	12	24.50	23.23	23.62	23.62
			1	24	24.50	23.31	23.70	23.71
			12	0	23.50	22.91	23.19	23.23
			12	6	23.50	22.77	23.22	23.20
			12	11	23.50	22.74	23.27	23.13
			25	0	23.50	22.83	23.19	23.21
		16QAM	1	0	23.00	22.68	22.96	22.95
			1	12	23.00	22.48	22.91	22.88
			1	24	23.00	22.62	22.89	22.98
			12	0	22.50	21.91	22.13	22.25
			12	6	22.50	21.76	22.21	22.19
			12	11	22.50	21.71	22.22	22.11

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	25	0	22.50	21.85	22.25	22.20
			1	0	24.50	23.28	23.61	23.63
			1	24	24.50	23.29	23.66	23.66
			1	49	24.50	23.26	23.71	23.71
			25	0	23.50	22.99	23.10	23.25
			25	12	23.50	22.80	23.23	23.13
			25	24	23.50	22.74	23.34	23.07
		16QAM	50	0	23.50	22.90	23.25	23.20
			1	0	23.00	22.58	22.82	22.92
			1	24	23.00	22.54	22.87	22.88
			1	49	23.00	22.50	22.99	22.91
			25	0	22.50	22.03	22.15	22.30
			25	12	22.50	21.84	22.27	22.15
			25	24	22.50	21.78	22.40	22.09
LTE Band 4	15MHz	QPSK	1	0	24.50	23.24	23.39	23.48
			1	37	24.50	23.29	23.65	23.62
			1	74	24.50	23.21	23.67	23.62
			36	0	23.50	22.89	23.06	23.09
			36	18	23.50	22.82	23.20	23.11
			36	37	23.50	22.86	23.31	23.02
			75	0	23.50	22.91	23.24	23.10
		16QAM	1	0	23.00	22.51	22.70	22.76
			1	37	23.00	22.43	22.87	22.86
			1	74	23.00	22.65	22.92	22.97
			36	0	22.50	21.92	22.06	22.12
			36	18	22.50	21.84	22.24	22.11
			36	37	22.50	21.86	22.33	22.03
			75	0	22.50	21.93	22.20	22.09
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	24.50	23.24	22.93	23.46
			1	49	24.50	23.22	23.62	23.62
			1	99	24.50	23.34	23.70	23.65
			50	0	23.50	23.05	23.03	22.91
			50	24	23.50	22.93	23.23	23.15
			50	49	23.50	23.06	23.49	22.89
			100	0	23.50	23.02	23.27	22.91
		16QAM	1	0	23.00	22.43	22.73	22.72
			1	49	23.00	22.49	22.80	22.97
			1	99	23.00	22.64	22.95	22.98
			50	0	22.50	22.07	22.03	21.92
			50	24	22.50	21.96	22.25	22.13
			50	49	22.50	22.07	22.47	21.93
			100	0	22.50	22.08	22.25	21.86

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	23.50	23.31	23.32	23.13
			1	2	23.50	23.35	23.30	23.16
			1	5	23.50	23.36	23.29	23.12
			3	0	23.50	23.32	23.39	23.19
			3	1	23.50	23.31	23.33	23.21
			3	2	23.50	23.36	23.30	23.21
			6	0	22.50	22.33	22.37	22.22
		16QAM	1	0	23.00	22.56	22.64	22.41
			1	2	23.00	22.57	22.67	22.45
			1	5	23.00	22.53	22.62	22.46
			3	0	22.50	22.32	22.36	22.25
			3	1	22.50	22.26	22.37	22.26
			3	2	22.50	22.32	22.36	22.26
			6	0	21.50	21.41	21.47	21.31
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE	3MHz	QPSK	1	0	23.50	23.27	23.36	23.18

Band 5			1	7	23.50	23.36	23.29	23.16
			1	14	23.50	23.38	23.25	23.14
			8	0	22.50	22.35	22.35	22.17
			8	4	22.50	22.34	22.34	22.16
			8	7	22.50	22.38	22.29	22.19
			15	0	22.50	22.37	22.33	22.22
		16QAM	1	0	23.00	22.56	22.69	22.42
			1	7	23.00	22.58	22.54	22.37
			1	14	23.00	22.65	22.50	22.35
			8	0	21.50	21.42	21.43	21.29
			8	4	21.50	21.42	21.40	21.26
			8	7	21.50	21.47	21.38	21.30
			15	0	21.50	21.42	21.35	21.27
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	23.50	23.34	23.45	22.74
			1	12	23.50	23.40	22.93	22.71
			1	24	23.50	23.48	22.84	22.72
			12	0	22.50	22.47	22.36	22.24
			12	6	22.50	22.45	22.38	22.23
			12	11	22.50	22.45	22.35	22.29
			25	0	22.50	22.46	22.36	22.28
		16QAM	1	0	23.00	22.17	22.19	22.01
			1	12	23.00	22.16	22.16	22.07
			1	24	23.00	22.74	22.13	21.95
			12	0	21.50	21.45	21.33	21.23
			12	6	21.50	21.44	21.38	21.22
			12	11	21.50	21.44	21.35	21.31
			25	0	21.50	21.48	21.38	21.30
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	23.50	22.88	22.97	22.86
			1	24	23.50	23.00	22.91	22.75
			1	49	23.50	22.93	22.72	22.73
			25	0	23.00	22.52	22.32	22.38
			25	12	23.00	22.51	22.33	22.26

			25	24	23.00	22.43	22.34	22.31
			50	0	23.00	22.50	22.36	22.38
		16QAM	1	0	22.50	22.11	22.27	22.23
			1	24	22.50	22.26	22.22	21.95
			1	49	22.50	22.15	21.97	21.95
			25	0	22.00	21.57	21.35	21.42
			25	12	22.00	21.52	21.40	21.24
			25	24	22.00	21.49	21.34	21.35
			50	0	21.50	21.49	21.36	21.41

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	24.50	24.09	24.03	24.12
			1	12	24.50	23.97	23.91	24.06
			1	24	24.50	24.08	24.09	24.14
			12	0	23.50	23.08	23.07	23.17
			12	6	23.50	23.03	23.00	23.10
			12	11	23.50	23.00	22.99	23.11
			25	0	23.50	23.02	22.95	23.11
		16QAM	1	0	23.50	23.31	23.35	23.41
			1	12	23.50	23.17	23.14	23.27
			1	24	23.50	23.19	23.40	23.33
			12	0	22.50	22.07	22.06	22.14
			12	6	22.50	22.00	21.97	22.10
			12	11	22.50	22.02	21.99	22.14
			25	0	22.50	22.07	22.02	22.13

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	24.50	24.05	23.53	23.80
			1	24	24.50	23.99	23.98	23.56
			1	49	24.50	24.01	23.54	23.64
			25	0	23.50	23.06	23.03	23.11
			25	12	23.50	23.03	23.01	23.11
			25	24	23.50	23.07	22.96	23.10
			50	0	23.50	23.10	23.01	23.13
		16QAM	1	0	23.00	22.93	22.79	22.94

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
			1	24	23.00	22.76	22.80	22.80
			1	49	23.00	22.85	22.78	22.93
			25	0	22.50	22.10	22.11	22.19
			25	12	22.50	22.04	22.05	22.14
			25	24	22.50	22.04	22.00	22.16
			50	0	22.50	22.09	22.01	22.13
LTE Band 7	15MHz	QPSK	1	0	24.50	23.43	23.36	23.50
			1	37	24.50	23.44	23.48	23.55
			1	74	24.50	23.36	23.44	23.57
			36	0	23.50	23.03	23.03	23.01
			36	18	23.50	23.04	22.95	23.07
			36	37	23.50	22.98	22.95	23.07
			75	0	23.50	23.05	22.99	23.06
		16QAM	1	0	23.00	22.79	22.61	22.79
			1	37	23.00	22.77	22.81	22.78
			1	74	23.00	22.67	22.65	22.89
			36	0	22.50	22.02	22.03	22.06
			36	18	22.50	22.04	21.98	22.14
			36	37	22.50	21.99	21.95	22.09
			75	0	22.50	22.05	21.99	22.09
			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	24.50	23.47	23.38	23.51
			1	49	24.50	23.45	23.49	23.47
			1	99	24.50	23.26	23.45	23.62
			50	0	23.50	23.06	23.04	23.00
			50	24	23.50	23.05	23.02	23.11
			50	49	23.50	23.03	22.95	23.10
			100	0	23.50	23.02	22.95	23.02
		16QAM	1	0	23.00	22.82	22.60	22.72
			1	49	23.00	22.69	22.70	22.67
			1	99	23.00	22.52	22.78	22.97
			50	0	22.50	22.01	22.05	22.03
			50	24	22.50	22.03	22.02	22.12

			50	49	22.50	22.03	21.98	22.09
			100	0	22.50	22.02	21.95	22.03

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.50	22.99	22.93	22.98
			1	2	23.50	23.01	22.90	22.98
			1	5	23.50	22.94	22.89	22.99
			3	0	23.50	23.00	22.93	22.98
			3	1	23.50	23.04	22.88	23.02
			3	2	23.50	23.00	22.90	23.05
			6	0	22.50	22.02	21.91	22.05
		16QAM	1	0	22.50	22.26	22.23	22.27
			1	2	22.50	22.36	22.27	22.25
			1	5	22.50	22.29	22.22	22.35
			3	0	22.50	21.96	21.93	22.05
			3	1	22.50	22.06	21.92	22.07
			3	2	22.50	21.96	21.92	22.05
			6	0	21.50	21.05	21.01	21.11

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.50	23.00	22.92	23.00
			1	7	23.50	22.96	22.87	22.98
			1	14	23.50	22.91	22.90	23.01
			8	0	22.50	21.94	21.89	22.05
			8	4	22.50	21.96	21.93	22.00
			8	7	22.50	21.93	21.91	22.02
			15	0	22.50	21.96	21.90	22.02
		16QAM	1	0	22.50	22.35	22.20	22.20
			1	7	22.50	22.14	22.12	22.24
			1	14	22.50	22.21	22.24	22.23
			8	0	21.50	21.07	20.95	21.09
			8	4	21.50	21.05	20.98	21.07
			8	7	21.50	21.02	20.97	21.09
			15	0	21.50	21.00	20.92	21.05

Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		
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	Width		Configuration		(dBm)			
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.50	23.06	22.94	22.55
			1	12	23.50	22.91	22.94	22.47
			1	24	23.50	22.97	22.99	22.60
			12	0	22.50	21.95	21.91	22.07
			12	6	22.50	21.96	21.92	21.99
			12	11	22.50	21.92	22.06	21.91
			25	0	22.50	21.92	21.99	22.01
		16QAM	1	0	22.50	22.31	22.06	21.77
			1	12	22.50	22.20	22.14	21.79
			1	24	22.50	22.19	22.03	21.78
			12	0	21.50	20.96	20.97	21.06
			12	6	21.50	20.97	20.92	21.00
			12	11	21.50	20.87	21.01	20.91
			25	0	21.50	20.92	20.99	21.02

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711

LTE Band 12	10MHz	QPSK	1	0	23.50	22.64	22.46	22.46
			1	24	23.50	22.46	22.47	22.53
			1	49	23.50	22.46	22.52	22.56
			25	0	22.50	22.03	22.03	21.82
			25	12	22.50	21.90	21.96	21.97
			25	24	22.50	21.87	22.10	21.80
			50	0	22.50	22.00	22.09	21.87
		16QAM	1	0	22.00	21.94	21.78	21.76
			1	24	22.00	21.75	21.68	21.84
			1	49	22.00	21.76	21.75	21.88
			25	0	21.50	21.09	21.03	20.86
			25	12	21.50	20.95	20.99	21.00
			25	24	21.50	20.91	21.10	20.83
			50	0	21.50	21.01	21.08	20.85

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

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	5MHz	QPSK	1	0	23.00	22.64	22.65	22.71
			1	12	23.00	22.55	22.59	22.65
			1	24	23.00	22.70	22.70	22.76
			12	0	22.50	22.09	22.02	22.30
			12	6	22.50	22.06	22.11	22.13
			12	11	22.50	22.08	22.15	22.07
			25	0	22.50	22.07	22.10	22.16
		16QAM	1	0	22.50	21.90	21.91	22.03
			1	12	22.50	21.83	21.91	21.95
			1	24	22.50	21.85	21.92	22.03
			12	0	21.50	21.11	21.02	21.28
			12	6	21.50	21.07	21.10	21.13
			12	11	21.50	21.03	21.11	21.07
			25	0	21.50	21.10	21.11	21.17
LTE Band 17	10MHz	QPSK	1	0	23.00	22.57	22.59	22.62
			1	24	23.00	22.65	22.66	22.66
			1	49	23.00	22.66	22.69	22.69
			25	0	22.50	22.03	21.97	21.94
			25	12	22.50	22.08	22.12	22.10
			25	24	22.50	22.11	22.00	21.94
			50	0	22.50	22.10	22.02	22.01
		16QAM	1	0	22.50	21.88	21.95	21.89
			1	24	22.50	21.89	21.99	21.98
			1	49	22.50	21.93	21.97	22.01
			25	0	21.50	21.03	20.99	20.95
			25	12	21.50	21.10	21.13	21.12
			25	24	21.50	21.12	21.05	20.94
			50	0	21.50	21.08	21.01	20.98

7.4. NR Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		500202/2501.01	518598/2592.99	537000/2685
NR	10MHz	DFT BPSK	1	1	23.50	23.01	23.07	23.24

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		500700/2503.5	518598/2592.99	536496/2682.48
Band n41		DFT QPSK	24	0	22.50	22.19	22.23	22.42
			12	6	23.50	23.00	23.13	23.22
			1	1	23.50	22.90	22.90	22.97
			1	22	23.50	22.77	22.94	23.43
		DFT QAM16	1	1	23.00	22.17	22.52	22.25
		DFT QAM64	1	1	21.50	21.10	21.05	21.19
		DFT QAM256	1	1	21.50	21.08	21.07	21.10
		CP QPSK	1	1	21.50	21.09	20.96	21.12
NR Band n41	15MHz	DFT BPSK	1	1	23.50	22.98	23.13	23.09
		DFT QPSK	36	0	22.50	22.09	22.25	22.35
			18	9	23.50	23.14	23.28	23.35
			1	1	23.50	22.75	23.20	22.93
			1	36	23.50	22.79	23.27	23.01
		DFT QAM16	1	1	22.50	20.66	22.21	22.16
		DFT QAM64	1	1	21.50	20.95	21.03	21.17
		DFT QAM256	1	1	21.50	20.95	21.02	21.12
CP QPSK	1	1	21.50	21.01	20.99	21.11		
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		501204/2506.02	518598/2592.99	535998/2679.99
NR Band n41	20MHz	DFT BPSK	1	1	23.50	23.04	23.15	23.15
		DFT QPSK	50	0	22.50	22.19	22.32	22.37
			25	12	23.50	23.26	23.33	23.42
			1	1	23.50	23.12	23.22	23.11
			1	49	23.50	23.02	23.09	23.24
		DFT QAM16	1	1	22.50	22.36	22.35	22.37
		DFT	1	1	21.50	21.11	21.07	21.24

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		503202/2516.01	518598/2592.99	534000/2670
		QAM64						
		DFT QAM256	1	1	21.50	21.03	21.19	21.20
		CP QPSK	1	1	23.50	21.07	21.25	23.10
NR Band n41	40MHz	DFT BPSK	1	1	23.00	22.63	22.54	22.63
		DFT QPSK	100	0	22.50	22.08	22.16	22.18
			50	25	23.50	23.13	23.15	23.18
			1	1	23.00	22.46	22.55	22.50
			1	104	23.00	22.62	22.66	22.65
		DFT QAM16	1	1	22.00	21.69	21.62	21.68
		DFT QAM64	1	1	21.00	20.64	20.23	20.48
		DFT QAM256	1	1	21.00	20.70	20.39	20.48
CP QPSK	1	1	22.50	20.67	22.44	20.49		
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		504204/2521.02	518598/2592.99	532998/2664.99
NR Band n41	50MHz	DFT BPSK	1	1	23.00	22.86	22.72	22.74
		DFT QPSK	128	0	22.50	22.09	22.12	22.20
			64	32	23.50	23.21	23.20	23.27
			1	1	23.50	22.59	22.75	22.57
			1	131	23.50	22.80	23.16	23.04
		DFT QAM16	1	1	22.00	21.89	21.78	21.86
		DFT QAM64	1	1	21.00	20.84	20.54	20.70
		DFT QAM256	1	1	21.00	20.86	20.53	20.69
CP QPSK	1	1	23.00	20.88	20.60	22.59		
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		507204/2536.02	518598/2592.99	529998/2649.99
NR Band n41	60MHz	DFT BPSK	1	1	23.00	505200/2526	518598/2592.99	531996/2659.98
		DFT QPSK	162	0	22.50	22.85	22.68	22.77
			81	40	23.50	21.98	22.13	22.23
			1	1	23.50	23.19	23.18	23.27
			1	160	23.50	22.80	22.70	22.78
		DFT QAM16	1	1	22.00	22.95	23.16	22.92
		DFT QAM64	1	1	21.00	21.79	21.69	21.91
		DFT QAM256	1	1	21.00	20.77	20.44	20.73
CP QPSK	1	1	21.00	20.86	20.58	20.61		
NR Band n41	80MHz	DFT BPSK	1	1	22.50	20.84	20.44	20.70
		DFT QPSK	216	0	22.00	22.28	22.22	22.05
			108	54	23.00	21.73	21.77	21.80
			1	1	23.00	22.91	22.87	22.94
			1	215	23.00	22.12	22.11	21.90
		DFT QAM16	1	1	21.50	22.22	22.44	22.55
		DFT QAM64	1	1	20.50	21.25	21.27	21.01
		DFT QAM256	1	1	20.50	20.20	20.13	19.93
CP QPSK	1	1	20.50	20.14	20.32	19.97		
NR Band n41	90MHz	DFT BPSK	1	1	22.50	20.09	20.32	20.09
		DFT QPSK	240	0	22.00	22.18	22.09	21.93
120	60		23.00	21.81	21.82	21.80		
1	1		22.50	22.92	22.85	22.86		
1	243		22.50	22.17	22.01	21.92		

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		509202/2546.01	518598/2592.99	528000/2640
		DFT QAM16	1	1	21.50	21.15	21.18	20.91
		DFT QAM64	1	1	20.50	19.98	20.14	20.01
		DFT QAM256	1	1	20.50	19.98	20.23	19.91
		CP QPSK	1	1	22.00	21.94	20.19	19.91
NR Band n41	100MHz	DFT BPSK	1	1	22.50	22.02	21.94	21.84
		DFT QPSK	270	0	22.00	21.72	21.76	21.77
			135	67	23.00	22.89	22.85	22.92
			1	1	23.50	22.95	23.30	22.82
			1	271	23.50	22.18	22.29	22.42
		DFT QAM16	1	1	21.50	21.05	20.96	20.95
		DFT QAM64	1	1	20.50	19.87	19.64	20.01
		DFT QAM256	1	1	20.50	19.88	19.70	20.01
CP QPSK	1	1	20.00	19.88	19.66	19.98		

7.5. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	16.00	15.59
	6	2437	16.00	15.50
	11	2462	16.00	15.75
802.11g	1	2412	14.00	13.57
	6	2437	14.00	13.24
	11	2462	14.00	13.51
802.11n HT20	1	2412	13.50	13.24
	6	2437	13.50	13.08
	11	2462	13.50	13.34
802.11n HT40	3	2422	12.50	12.00
	6	2437	12.50	12.17

	9	2452	12.50	12.17
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NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	10.00	9.70
	40	5200	10.00	9.02
	48	5240	10.00	9.23
802.11n HT20	36	5180	10.00	9.64
	40	5200	10.00	9.93
	48	5240	10.00	9.25
802.11n HT40	38	5190	8.50	8.40
	46	5230	8.50	8.22
802.11ac VHT20	36	5180	10.00	9.67
	40	5200	10.00	8.93
	48	5240	10.00	9.79
802.11ac VHT40	38	5190	8.50	7.35
	46	5230	8.50	8.17
802.11ac VHT80	42	5210	9.50	9.03

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	10.00	9.17
	157	5785	10.00	9.81
	165	5825	10.00	8.76
802.11n HT20	149	5745	10.00	9.75
	157	5785	10.00	9.07
	165	5825	10.00	9.86
802.11n HT40	151	5755	9.50	9.05
	159	5795	9.50	9.39
802.11ac VHT20	149	5745	10.00	9.79
	157	5785	10.00	9.20
	165	5825	10.00	9.90
802.11ac VHT40	151	5755	10.00	9.15
	159	5795	10.00	9.89
802.11ac VHT80	155	5775	10.00	9.66

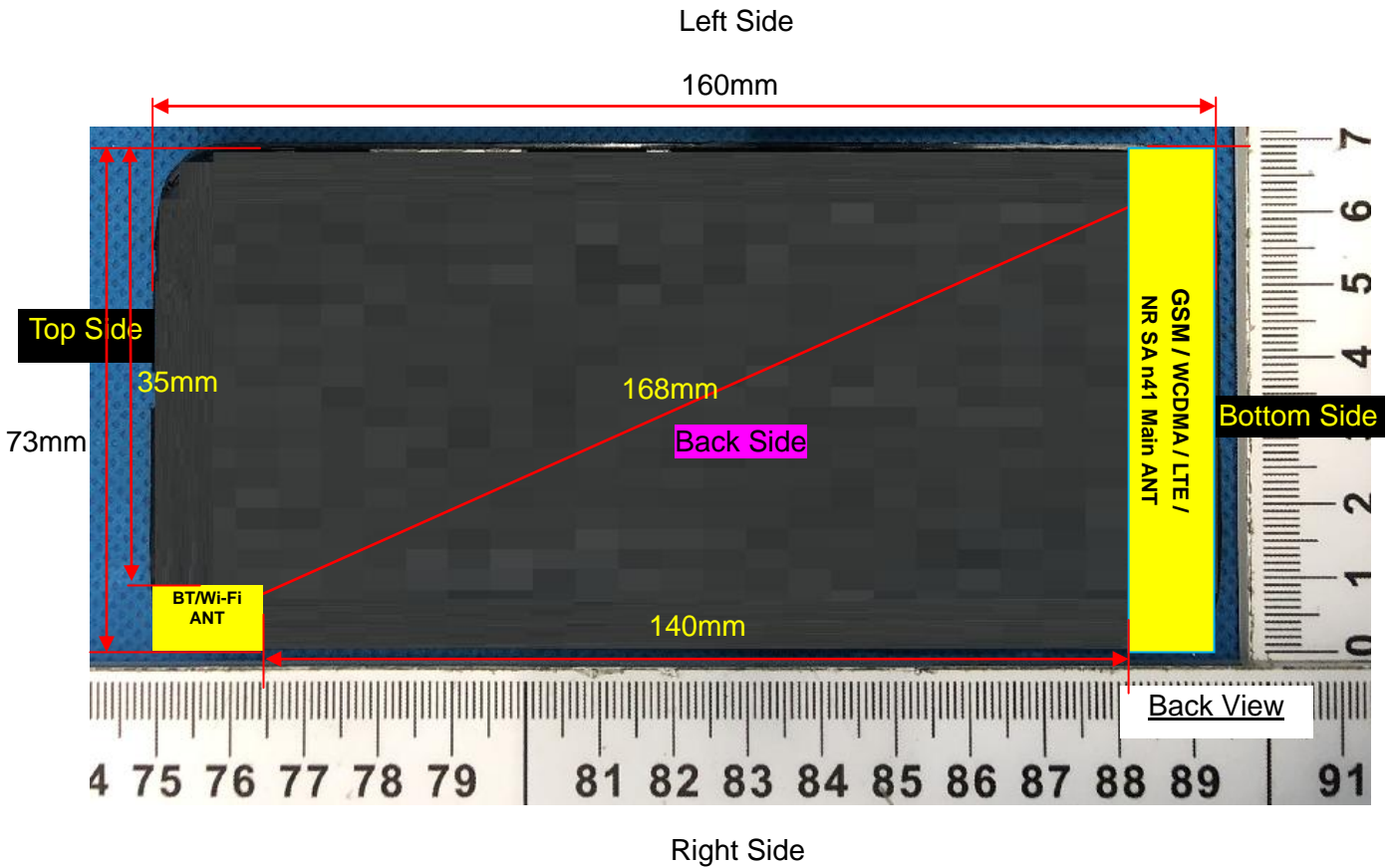
NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	9.000	8.451	7.573	7.492
	39CH	8.000	7.160	6.478	6.456
	78CH	9.000	8.676	7.763	7.380

BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
	0CH	-3.000	-3.631	-3.642
	19CH	-4.000	-4.939	-4.927
	39CH	-4.000	-4.769	-4.893

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	9.00	7.94	5	2.480	2.5	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	9.00	7.94	5	2.48	7.5	0.334
Bluetooth	Body	9.00	7.94	10	2.48	7.5	0.167
Bluetooth	Hotspot	9.00	7.94	10	2.48	7.5	0.167

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.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Left Cheek	189/836.4	GPRS(GMSK 4TS)	0.342	0.254	-3.91	28.87	29.00	0.352	2022/9/12	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.194	0.137	-3.66	28.87	29.00	0.200	2022/9/12	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.302	0.224	2.89	28.87	29.00	0.311	2022/9/12	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.154	0.109	-3.49	28.87	29.00	0.159	2022/9/12	

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.246	0.139	-2.97	28.87	29.00	0.253	2022/9/12	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.375	0.218	0.05	28.87	29.00	0.386	2022/9/12	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.246	0.139	-2.97	28.87	29.00	0.253	2022/9/12	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.375	0.218	0.05	28.87	29.00	0.386	2022/9/12	2#
Left Side	189/836.4	GPRS(GMSK 4TS)	0.117	0.066	-2.37	28.87	29.00	0.121	2022/9/12	
Right Side	189/836.4	GPRS(GMSK 4TS)	0.059	0.033	3.11	28.87	29.00	0.061	2022/9/12	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.190	0.107	3.46	28.87	29.00	0.196	2022/9/12	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.068	0.044	-1.58	26.48	27.00	0.077	2022/9/14	3#
Left Tilt 15	661/1880	GPRS(GMSK 4TS)	0.038	0.025	0.29	26.48	27.00	0.043	2022/9/14	

Degree										
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.063	0.040	0.00	26.48	27.00	0.071	2022/9/14	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.034	0.022	2.46	26.48	27.00	0.038	2022/9/14	

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	661/1880	GPRS(GMSK 4TS)	0.228	0.123	-0.03	26.48	27.00	0.257	2022/9/14	
Back Side	661/1880	GPRS(GMSK 4TS)	0.353	0.193	0.06	26.48	27.00	0.398	2022/9/14	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	661/1880	GPRS(GMSK 4TS)	0.228	0.123	-0.03	26.48	27.00	0.257	2022/9/14	
Back Side	661/1880	GPRS(GMSK 4TS)	0.353	0.193	0.06	26.48	27.00	0.398	2022/9/14	4#
Left Side	661/1880	GPRS(GMSK 4TS)	0.108	0.058	2.56	26.48	27.00	0.122	2022/9/14	
Right Side	661/1880	GPRS(GMSK 4TS)	0.059	0.031	-3.54	26.48	27.00	0.067	2022/9/14	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.185	0.101	-2.39	26.48	27.00	0.209	2022/9/14	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position	Test channel	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR 1g	Date	Plot
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of Head	/Freq.		1g	10g	(±5%)	(dBm)	(dBm)	(W/Kg)		
Left Cheek	9400/1880	RMC12.2K	0.077	0.048	-2.16	23.14	23.50	0.084	2022/9/14	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.044	0.027	-1.51	23.14	23.50	0.048	2022/9/14	
Right Cheek	9400/1880	RMC12.2K	0.070	0.041	0.58	23.14	23.50	0.076	2022/9/14	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.038	0.023	-3.23	23.14	23.50	0.041	2022/9/14	

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.234	0.127	-0.83	23.14	23.50	0.254	2022/9/14	
Back Side	9400/1880	RMC12.2K	0.367	0.204	-0.10	23.14	23.50	0.399	2022/9/14	6#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.234	0.127	-0.83	23.14	23.50	0.254	2022/9/14	
Back Side	9400/1880	RMC12.2K	0.367	0.204	-0.10	23.14	23.50	0.399	2022/9/14	6#
Left Side	9400/1880	RMC12.2K	0.120	0.063	1.21	23.14	23.50	0.130	2022/9/14	
Right Side	9400/1880	RMC12.2K	0.059	0.032	1.38	23.14	23.50	0.064	2022/9/14	
Bottom Side	9400/1880	RMC12.2K	0.190	0.104	0.59	23.14	23.50	0.206	2022/9/14	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Left Cheek	1413/1732.6	RMC12.2K	0.209	0.132	-4.36	22.91	23.50	0.239	2022/9/02	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.124	0.078	3.91	22.91	23.50	0.142	2022/9/02	
Right Cheek	1413/1732.6	RMC12.2K	0.179	0.109	0.66	22.91	23.50	0.205	2022/9/02	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.096	0.058	3.47	22.91	23.50	0.110	2022/9/02	

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.480	0.271	2.86	22.91	23.50	0.550	2022/9/02	
Back Side	1413/1732.6	RMC12.2K	0.800	0.451	-1.93	22.91	23.50	0.916	2022/9/02	8#
Back Side Repeated	1413/1732.6	RMC12.2K	0.797	0.448	1.24	22.91	23.50	0.913	2022/9/02	
Back Side	1312/1712.4	RMC12.2K	0.697	0.381	-0.50	22.95	23.50	0.791	2022/9/02	
Back Side	1513/1752.6	RMC12.2K	0.738	0.404	-3.51	23.09	23.50	0.811	2022/9/02	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.480	0.271	2.86	22.91	23.50	0.550	2022/9/02	
Back Side	1413/1732.6	RMC12.2K	0.800	0.451	-1.93	22.91	23.50	0.916	2022/9/02	8#

Back Side Repeated	1413/1732.6	RMC12.2K	0.797	0.448	1.24	22.91	23.50	0.913	2022/9/02	
Left Side	1413/1732.6	RMC12.2K	0.243	0.136	0.61	22.91	23.50	0.278	2022/9/02	
Right Side	1413/1732.6	RMC12.2K	0.123	0.069	0.33	22.91	23.50	0.141	2022/9/02	
Bottom Side	1413/1732.6	RMC12.2K	0.405	0.221	2.53	22.91	23.50	0.464	2022/9/02	
Back Side	1312/1712.4	RMC12.2K	0.697	0.381	-0.50	22.95	23.50	0.791	2022/9/02	
Back Side	1513/1752.6	RMC12.2K	0.738	0.404	-3.51	23.09	23.50	0.811	2022/9/02	

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Left Cheek	4182/836.4	RMC12.2K	0.144	0.111	-1.10	22.46	23.00	0.163	2022/9/12	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.083	0.063	-3.90	22.46	23.00	0.094	2022/9/12	
Right Cheek	4182/836.4	RMC12.2K	0.128	0.096	0.66	22.46	23.00	0.145	2022/9/12	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.068	0.050	-3.43	22.46	23.00	0.077	2022/9/12	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.114	0.068	-2.17	22.46	23.00	0.129	2022/9/12	
Back Side	4182/836.4	RMC12.2K	0.177	0.106	-1.14	22.46	23.00	0.200	2022/9/12	10#

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

Test	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 (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)		
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.114	0.068	-2.17	22.46	23.00	0.129	2022/9/12	
Back Side	4182/836.4	RMC12.2K	0.177	0.106	-1.14	22.46	23.00	0.200	2022/9/12	10#
Left Side	4182/836.4	RMC12.2K	0.063	0.038	-0.69	22.46	23.00	0.071	2022/9/12	
Right Side	4182/836.4	RMC12.2K	0.033	0.019	-3.00	22.46	23.00	0.037	2022/9/12	
Bottom Side	4182/836.4	RMC12.2K	0.100	0.060	-1.82	22.46	23.00	0.113	2022/9/12	

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)	0.075	0.047	3.42	23.55	24.00	0.083	2022/9/14	17#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,0)	0.039	0.023	-2.39	23.55	24.00	0.043	2022/9/14	
Right Cheek	18900/1880	20M QPSK(1,0)	0.064	0.039	0.83	23.55	24.00	0.071	2022/9/14	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,0)	0.032	0.019	-1.48	23.55	24.00	0.035	2022/9/14	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,49)	0.042	0.025	3.46	22.84	24.00	0.055	2022/9/14	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.022	0.013	0.73	22.84	24.00	0.029	2022/9/14	
Right Cheek	18900/1880	20M QPSK(50,49)	0.037	0.021	-4.92	22.84	24.00	0.048	2022/9/14	

Right Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.016	0.010	-4.52	22.84	24.00	0.021	2022/9/14	
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NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	18900/1880	20M QPSK(1,0)	0.228	0.128	-2.35	23.55	24.00	0.253	2022/9/14	
Back Side	18900/1880	20M QPSK(1,0)	0.347	0.195	-1.22	23.55	24.00	0.385	2022/9/14	18#
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.132	0.070	-3.24	22.84	24.00	0.172	2022/9/14	
Back Side	18900/1880	20M QPSK(50,49)	0.180	0.104	-4.15	22.84	24.00	0.235	2022/9/14	

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)	0.228	0.128	-2.35	23.55	24.00	0.253	2022/9/14	
Back Side	18900/1880	20M QPSK(1,0)	0.347	0.195	-1.22	23.55	24.00	0.385	2022/9/14	18#
Left Side	18900/1880	20M QPSK(1,0)	0.117	0.066	-1.90	23.55	24.00	0.130	2022/9/14	
Right Side	18900/1880	20M QPSK(1,0)	0.053	0.029	0.78	23.55	24.00	0.059	2022/9/14	
Bottom Side	18900/1880	20M QPSK(1,0)	0.190	0.106	-0.01	23.55	24.00	0.211	2022/9/14	
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.132	0.070	-3.24	22.84	24.00	0.172	2022/9/14	
Back Side	18900/1880	20M QPSK(50,49)	0.180	0.104	-4.15	22.84	24.00	0.235	2022/9/14	

Left Side	18900/1880	20M QPSK(50,49)	0.066	0.035	4.06	22.84	24.00	0.086	2022/9/14	
Right Side	18900/1880	20M QPSK(50,49)	0.031	0.015	1.35	22.84	24.00	0.040	2022/9/14	
Bottom Side	18900/1880	20M QPSK(50,49)	0.106	0.061	-0.18	22.84	24.00	0.138	2022/9/14	

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)	0.236	0.150	1.85	23.70	24.50	0.284	2022/9/02	19#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.139	0.088	1.31	23.70	24.50	0.167	2022/9/02	
Right Cheek	20175/1732.5	20M QPSK(1,99)	0.209	0.133	-3.98	23.70	24.50	0.251	2022/9/02	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.105	0.065	-0.66	23.70	24.50	0.126	2022/9/02	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,49)	0.140	0.075	1.62	23.49	23.50	0.140	2022/9/02	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.082	0.046	2.35	23.49	23.50	0.082	2022/9/02	
Right Cheek	20175/1732.5	20M QPSK(50,49)	0.120	0.068	4.50	23.49	23.50	0.120	2022/9/02	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,49)	0.055	0.039	1.96	23.49	23.50	0.055	2022/9/02	

NOTE: Head SAR test results of LTE Band 4

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

1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.558	0.290	-2.56	23.70	24.50	0.671	2022/9/02	
Back Side	20175/1732.5	20M QPSK(1,99)	0.896	0.480	-4.86	23.70	24.50	1.077	2022/9/02	
Back Side	20050/1720	20M QPSK(1,99)	0.910	0.526	-1.71	23.34	24.50	1.189	2022/9/02	20#
Back Side Repeated	20050/1720	20M QPSK(1,99)	0.908	0.520	1.44	23.34	24.50	1.186	2022/9/02	
Back Side	20300/1745	20M QPSK(1,99)	0.822	0.437	-4.11	23.65	24.50	1.000	2022/9/02	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.327	0.168	2.49	23.49	23.50	0.328	2022/9/02	
Back Side	20175/1732.5	20M QPSK(50,49)	0.501	0.265	1.53	23.49	23.50	0.502	2022/9/02	
100%RB										
Back Side	20175/1732.5	20M QPSK(100,0)	0.486	0.257	0.77	23.27	23.50	0.512	2022/9/02	

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)	0.558	0.290	-2.56	23.70	24.50	0.671	2022/9/02	
Back Side	20175/1732.5	20M QPSK(1,99)	0.896	0.480	-4.86	23.70	24.50	1.077	2022/9/02	
Left Side	20175/1732.5	20M QPSK(1,99)	0.276	0.143	-3.66	23.70	24.50	0.332	2022/9/02	
Right Side	20175/1732.5	20M QPSK(1,99)	0.140	0.072	-2.93	23.70	24.50	0.168	2022/9/02	
Bottom Side	20175/1732.5	20M QPSK(1,99)	0.450	0.239	-1.09	23.70	24.50	0.541	2022/9/02	
Back Side	20050/1720	20M QPSK(1,99)	0.910	0.526	-1.71	23.34	24.50	1.189	2022/9/02	20#

Back Side Repeated	20050/1720	20M QPSK(1,99)	0.908	0.520	1.44	23.34	24.50	1.186	2022/9/02	
Back Side	20300/1745	20M QPSK(1,99)	0.822	0.437	-4.11	23.65	24.50	1.000	2022/9/02	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.327	0.168	2.49	23.49	23.50	0.328	2022/9/02	
Back Side	20175/1732.5	20M QPSK(50,49)	0.501	0.265	1.53	23.49	23.50	0.502	2022/9/02	
Left Side	20175/1732.5	20M QPSK(50,49)	0.163	0.082	2.41	23.49	23.50	0.163	2022/9/02	
Right Side	20175/1732.5	20M QPSK(50,49)	0.076	0.041	-1.71	23.49	23.50	0.076	2022/9/02	
Bottom Side	20175/1732.5	20M QPSK(50,49)	0.233	0.141	1.72	23.49	23.50	0.234	2022/9/02	
100%RB										
Back Side	20175/1732.5	20M QPSK(100,0)	0.486	0.257	0.77	23.27	23.50	0.512	2022/9/02	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.143	0.113	1.05	22.91	23.50	0.164	2022/9/12	21#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.084	0.065	1.65	22.91	23.50	0.096	2022/9/12	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.133	0.105	-0.43	22.91	23.50	0.152	2022/9/12	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.065	0.049	3.97	22.91	23.50	0.074	2022/9/12	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,0)	0.086	0.059	-2.03	22.32	23.00	0.101	2022/9/12	
Left Tilt 15	20525/836.5	10M	0.044	0.039	-1.21	22.32	23.00	0.051	2022/9/12	

Degree		QPSK(25,0)								
Right Cheek	20525/836.5	10M QPSK(25,0)	0.071	0.055	-0.02	22.32	23.00	0.083	2022/9/12	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.037	0.029	-3.52	22.32	23.00	0.043	2022/9/12	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.108	0.063	2.07	22.91	23.50	0.124	2022/9/12	
Back Side	20525/836.5	10M QPSK(1,24)	0.175	0.107	0.84	22.91	23.50	0.200	2022/9/12	22#
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.055	0.037	1.20	22.32	23.00	0.064	2022/9/12	
Back Side	20525/836.5	10M QPSK(25,0)	0.101	0.061	0.61	22.32	23.00	0.118	2022/9/12	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.108	0.063	2.07	22.91	23.50	0.124	2022/9/12	
Back Side	20525/836.5	10M QPSK(1,24)	0.175	0.107	0.84	22.91	23.50	0.200	2022/9/12	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.063	0.037	-2.31	22.91	23.50	0.072	2022/9/12	
Right	20525/836.5	10M QPSK(1,24)	0.033	0.019	-3.01	22.91	23.50	0.038	2022/9/12	

Side										
Bottom Side	20525/836.5	10M QPSK(1,24)	0.090	0.055	2.40	22.91	23.50	0.103	2022/9/12	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.055	0.037	1.20	22.32	23.00	0.064	2022/9/12	
Back Side	20525/836.5	10M QPSK(25,0)	0.101	0.061	0.61	22.32	23.00	0.118	2022/9/12	
Left Side	20525/836.5	10M QPSK(25,0)	0.032	0.021	-3.36	22.32	23.00	0.037	2022/9/12	
Right Side	20525/836.5	10M QPSK(25,0)	0.018	0.011	0.44	22.32	23.00	0.021	2022/9/12	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.048	0.029	-0.66	22.32	23.00	0.056	2022/9/12	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,99)	0.263	0.146	-1.93	23.45	24.50	0.335	2022/9/06	23#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,99)	0.145	0.077	-2.67	23.45	24.50	0.185	2022/9/06	
Right Cheek	21100/2535	20M QPSK(1,99)	0.230	0.128	2.52	23.45	24.50	0.293	2022/9/06	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,99)	0.106	0.059	-1.16	23.45	24.50	0.135	2022/9/06	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.133	0.077	0.69	23.02	23.50	0.149	2022/9/06	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.083	0.043	-2.26	23.02	23.50	0.093	2022/9/06	
Right Cheek	21100/2535	20M QPSK(50,24)	0.132	0.075	-3.02	23.02	23.50	0.147	2022/9/06	
Right Tilt 15	21100/2535	20M	0.063	0.033	-0.87	23.02	23.50	0.070	2022/9/06	

Degree		QPSK(50,24)								
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NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	21100/2535	20M QPSK(1,99)	0.360	0.173	1.16	23.45	24.50	0.458	2022/9/06	
Back Side	21100/2535	20M QPSK(1,99)	0.554	0.275	-4.85	23.45	24.50	0.706	2022/9/06	24#
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.183	0.097	0.22	23.02	23.50	0.204	2022/9/06	
Back Side	21100/2535	20M QPSK(50,24)	0.331	0.150	-4.04	23.02	23.50	0.370	2022/9/06	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,99)	0.360	0.173	1.16	23.45	24.50	0.458	2022/9/06	
Back Side	21100/2535	20M QPSK(1,99)	0.554	0.275	-4.85	23.45	24.50	0.706	2022/9/06	24#
Left Side	21100/2535	20M QPSK(1,99)	0.180	0.088	1.03	23.45	24.50	0.229	2022/9/06	
Right Side	21100/2535	20M QPSK(1,99)	0.087	0.042	-2.97	23.45	24.50	0.111	2022/9/06	
Bottom Side	21100/2535	20M QPSK(1,99)	0.295	0.146	-2.74	23.45	24.50	0.376	2022/9/06	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.183	0.097	0.22	23.02	23.50	0.204	2022/9/06	
Back Side	21100/2535	20M QPSK(50,24)	0.331	0.150	-4.04	23.02	23.50	0.370	2022/9/06	

Left Side	21100/2535	20M QPSK(50,24)	0.091	0.051	2.94	23.02	23.50	0.102	2022/9/06	
Right Side	21100/2535	20M QPSK(50,24)	0.045	0.023	-1.98	23.02	23.50	0.050	2022/9/06	
Bottom Side	21100/2535	20M QPSK(50,24)	0.149	0.073	-1.28	23.02	23.50	0.166	2022/9/06	

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)	0.115	0.094	3.40	22.46	23.50	0.146	2022/9/01	25#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.069	0.056	-1.83	22.46	23.50	0.088	2022/9/01	
Right Cheek	23095/707.5	10M QPSK(1,0)	0.098	0.077	2.06	22.46	23.50	0.125	2022/9/01	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.052	0.041	-3.41	22.46	23.50	0.066	2022/9/01	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,24)	0.059	0.056	2.52	22.10	22.50	0.065	2022/9/01	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.037	0.028	-0.16	22.10	22.50	0.041	2022/9/01	
Right Cheek	23095/707.5	10M QPSK(25,24)	0.057	0.045	-1.98	22.10	22.50	0.062	2022/9/01	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.030	0.022	1.99	22.10	22.50	0.033	2022/9/01	

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	0.126	0.097	-3.25	22.46	23.50	0.160	2022/9/01	

		QPSK(1,0)								
Back Side	23095/707.5	10M QPSK(1,0)	0.181	0.143	0.16	22.46	23.50	0.230	2022/9/01	26#
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.066	0.051	3.30	22.10	22.50	0.072	2022/9/01	
Back Side	23095/707.5	10M QPSK(25,24)	0.104	0.077	4.92	22.10	22.50	0.114	2022/9/01	

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)	0.126	0.097	-3.25	22.46	23.50	0.160	2022/9/01	
Back Side	23095/707.5	10M QPSK(1,0)	0.181	0.143	0.16	22.46	23.50	0.230	2022/9/01	26#
Left Side	23095/707.5	10M QPSK(1,0)	0.066	0.050	-1.64	22.46	23.50	0.084	2022/9/01	
Right Side	23095/707.5	10M QPSK(1,0)	0.033	0.025	2.85	22.46	23.50	0.042	2022/9/01	
Bottom Side	23095/707.5	10M QPSK(1,0)	0.110	0.085	-1.27	22.46	23.50	0.140	2022/9/01	
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.066	0.051	3.30	22.10	22.50	0.072	2022/9/01	
Back Side	23095/707.5	10M QPSK(25,24)	0.104	0.077	4.92	22.10	22.50	0.114	2022/9/01	
Left Side	23095/707.5	10M QPSK(25,24)	0.037	0.027	2.27	22.10	22.50	0.041	2022/9/01	
Right Side	23095/707.5	10M QPSK(25,24)	0.018	0.014	4.38	22.10	22.50	0.020	2022/9/01	
Bottom Side	23095/707.5	10M QPSK(25,24)	0.058	0.049	0.41	22.10	22.50	0.064	2022/9/01	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. 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(1,49)	0.120	0.097	2.33	22.69	23.00	0.129	2022/9/01	27#
Left Tilt 15 Degree	23790/710	10M QPSK(1,49)	0.071	0.057	1.91	22.69	23.00	0.076	2022/9/01	
Right Cheek	23790/710	10M QPSK(1,49)	0.110	0.087	2.06	22.69	23.00	0.118	2022/9/01	
Right Tilt 15 Degree	23790/710	10M QPSK(1,49)	0.057	0.044	-0.58	22.69	23.00	0.061	2022/9/01	
50%RB										
Left Cheek	23790/710	10M QPSK(25,12)	0.072	0.056	4.48	22.12	22.50	0.079	2022/9/01	
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.041	0.029	4.99	22.12	22.50	0.045	2022/9/01	
Right Cheek	23790/710	10M QPSK(25,12)	0.065	0.047	-4.79	22.12	22.50	0.071	2022/9/01	
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.032	0.025	-4.63	22.12	22.50	0.035	2022/9/01	

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(1,49)	0.114	0.091	-0.94	22.69	23.00	0.122	2022/9/01	
Back Side	23790/710	10M QPSK(1,49)	0.179	0.144	-0.17	22.69	23.00	0.192	2022/9/01	28#
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.062	0.052	-2.56	22.12	22.50	0.068	2022/9/01	
Back Side	23790/710	10M QPSK(25,12)	0.107	0.085	-4.06	22.12	22.50	0.117	2022/9/01	

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(1,49)	0.114	0.091	-0.94	22.69	23.00	0.122	2022/9/01	
Back Side	23790/710	10M QPSK(1,49)	0.179	0.144	-0.17	22.69	23.00	0.192	2022/9/01	28#
Left Side	23790/710	10M QPSK(1,49)	0.057	0.044	-0.05	22.69	23.00	0.061	2022/9/01	
Right Side	23790/710	10M QPSK(1,49)	0.032	0.025	2.99	22.69	23.00	0.034	2022/9/01	
Bottom Side	23790/710	10M QPSK(1,49)	0.110	0.086	-0.82	22.69	23.00	0.118	2022/9/01	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.062	0.052	-2.56	22.12	22.50	0.068	2022/9/01	
Back Side	23790/710	10M QPSK(25,12)	0.107	0.085	-4.06	22.12	22.50	0.117	2022/9/01	
Left Side	23790/710	10M QPSK(25,12)	0.030	0.026	2.70	22.12	22.50	0.033	2022/9/01	
Right Side	23790/710	10M QPSK(25,12)	0.018	0.013	-3.82	22.12	22.50	0.020	2022/9/01	
Bottom Side	23790/710	10M QPSK(25,12)	0.056	0.049	1.11	22.12	22.50	0.061	2022/9/01	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. SAR measurement Result of NR SA n41

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	518598/2592.99	100M QPSK(1,1)	0.223	0.121	3.81	23.30	23.50	0.234	2022/9/06	29#
Left Tilt 15	518598/2592.99	100M QPSK(1,1)	0.113	0.061	1.54	23.30	23.50	0.118	2022/9/06	

Degree										
Right Cheek	518598/2592.99	100M QPSK(1,1)	0.190	0.101	2.48	23.30	23.50	0.199	2022/9/06	
Right Tilt 15 Degree	518598/2592.99	100M QPSK(1,1)	0.086	0.046	2.52	23.30	23.50	0.090	2022/9/06	
50%RB										
Left Cheek	518598/2592.99	100M QPSK(135,67)	0.116	0.065	2.89	22.85	23.00	0.120	2022/9/06	
Left Tilt 15 Degree	518598/2592.99	100M QPSK(135,67)	0.061	0.033	4.87	22.85	23.00	0.063	2022/9/06	
Right Cheek	518598/2592.99	100M QPSK(135,67)	0.097	0.058	1.04	22.85	23.00	0.100	2022/9/06	
Right Tilt 15 Degree	518598/2592.99	100M QPSK(135,67)	0.045	0.026	1.94	22.85	23.00	0.047	2022/9/06	

NOTE: Head SAR test results of NR n41

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	518598/2592.99	100M QPSK(1,1)	0.318	0.158	-2.64	23.30	23.50	0.333	2022/9/06	
Back Side	518598/2592.99	100M QPSK(1,1)	0.500	0.251	-0.68	23.30	23.50	0.524	2022/9/06	30#
50%RB										
Front Side	518598/2592.99	100M QPSK(135,67)	0.177	0.080	-2.66	22.85	23.00	0.183	2022/9/06	
Back Side	518598/2592.99	100M QPSK(135,67)	0.270	0.127	4.54	22.85	23.00	0.279	2022/9/06	

NOTE: Body-Worn SAR test results of NR n41

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

Omm										
1RB										
Front Side	518598/2592.99	100M QPSK(1,1)	0.318	0.158	-2.64	23.30	23.50	0.333	2022/9/06	
Back Side	518598/2592.99	100M QPSK(1,1)	0.500	0.251	-0.68	23.30	23.50	0.524	2022/9/06	30#
Left Side	518598/2592.99	100M QPSK(1,1)	0.150	0.075	2.22	23.30	23.50	0.157	2022/9/06	
Right Side	518598/2592.99	100M QPSK(1,1)	0.078	0.038	-3.81	23.30	23.50	0.082	2022/9/06	
Bottom Side	518598/2592.99	100M QPSK(1,1)	0.275	0.137	0.93	23.30	23.50	0.288	2022/9/06	
50%RB										
Front Side	518598/2592.99	100M QPSK(135,67)	0.177	0.080	-2.66	22.85	23.00	0.183	2022/9/06	
Back Side	518598/2592.99	100M QPSK(135,67)	0.270	0.127	4.54	22.85	23.00	0.279	2022/9/06	
Left Side	518598/2592.99	100M QPSK(135,67)	0.085	0.040	-3.13	22.85	23.00	0.088	2022/9/06	
Right Side	518598/2592.99	100M QPSK(135,67)	0.043	0.021	-3.78	22.85	23.00	0.045	2022/9/06	
Bottom Side	518598/2592.99	100M QPSK(135,67)	0.146	0.077	1.02	22.85	23.00	0.151	2022/9/06	

NOTE: Hotspot SAR test results of NR n41

10.1.13. 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	11/2462	802.11b	0.480	0.207	-3.55	15.75	16.00	0.508	2022/9/07	15#
Left Tilt 15 Degree	11/2462	802.11b	0.276	0.115	-1.37	15.75	16.00	0.292	2022/9/07	
Right Cheek	11/2462	802.11b	0.435	0.186	-2.50	15.75	16.00	0.461	2022/9/07	
Right Tilt 15 Degree	11/2462	802.11b	0.210	0.090	-2.46	15.75	16.00	0.222	2022/9/07	

NOTE: Head SAR test results of WLAN 2.4G

Test Position of	Test	Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Body-Worn with 10mm	channel /Freq.		SAR Value (W/kg)		Drift(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
Front Side	11/2462	802.11b	0.162	0.080	-2.41	15.75	16.00	0.172	2022/9/07	
Back Side	11/2462	802.11b	0.240	0.119	-4.04	15.75	16.00	0.254	2022/9/07	16#

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	11/2462	802.11b	0.162	0.080	-2.41	15.75	16.00	0.172	2022/9/07	
Back Side	11/2462	802.11b	0.240	0.119	-4.04	15.75	16.00	0.254	2022/9/07	16#
Right Side	11/2462	802.11b	0.078	0.038	-0.88	15.75	16.00	0.083	2022/9/07	
Top Side	11/2462	802.11b	0.102	0.050	1.10	15.75	16.00	0.108	2022/9/07	

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.14. SAR measurement Result of WLAN 5.2G

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	40/5200	802.11n HT20	0.297	0.118	-3.66	9.93	10.00	0.302	2022/8/31	11#
Left Tilt 15 Degree	40/5200	802.11n HT20	0.173	0.067	2.70	9.93	10.00	0.176	2022/8/31	
Right Cheek	40/5200	802.11n HT20	0.277	0.108	3.16	9.93	10.00	0.282	2022/8/31	
Right Tilt 15 Degree	40/5200	802.11n HT20	0.135	0.054	-2.33	9.93	10.00	0.137	2022/8/31	

NOTE: Head SAR test results of WLAN 5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11n HT20	0.084	0.044	-0.42	9.93	10.00	0.085	2022/8/31	
Back Side	40/5200	802.11n	0.122	0.064	-2.24	9.93	10.00	0.124	2022/8/31	13#

		HT20								
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NOTE: Body-Worn SAR test results of WLAN 5.2G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11n HT20	0.084	0.044	-0.42	9.93	10.00	0.085	2022/8/31	
Back Side	40/5200	802.11n HT20	0.122	0.064	-2.24	9.93	10.00	0.124	2022/8/31	13#
Right Side	40/5200	802.11n HT20	0.039	0.020	-0.48	9.93	10.00	0.040	2022/8/31	
Top Side	40/5200	802.11n HT20	0.046	0.024	0.56	9.93	10.00	0.047	2022/8/31	

NOTE: Hotspot SAR test results of WLAN 5.2G

10.1.15. SAR measurement Result of WLAN 5.8G

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	165/5825	802.11ac VHT20	0.656	0.220	-1.48	9.90	10.00	0.671	2022/8/29	12#
Left Tilt 15 Degree	165/5825	802.11ac VHT20	0.346	0.114	2.16	9.90	10.00	0.354	2022/8/29	
Right Cheek	165/5825	802.11ac VHT20	0.569	0.183	0.24	9.90	10.00	0.582	2022/8/29	
Right Tilt 15 Degree	165/5825	802.11ac VHT20	0.293	0.093	-1.35	9.90	10.00	0.300	2022/8/29	

NOTE: Head SAR test results of WLAN 5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	165/5825	802.11ac VHT20	0.216	0.090	-1.78	9.90	10.00	0.221	2022/8/29	
Back Side	165/5825	802.11ac	0.343	0.143	-0.17	9.90	10.00	0.351	2022/8/29	14#

VHT20

NOTE: Body-Worn SAR test results of WLAN 5.8G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	165/5825	802.11ac VHT20	0.216	0.090	-1.78	9.90	10.00	0.221	2022/8/29	
Back Side	165/5825	802.11ac VHT20	0.343	0.143	-0.17	9.90	10.00	0.351	2022/8/29	14#
Right Side	165/5825	802.11ac VHT20	0.117	0.048	1.92	9.90	10.00	0.120	2022/8/29	
Top Side	165/5825	802.11ac VHT20	0.126	0.051	1.45	9.90	10.00	0.129	2022/8/29	

NOTE: Hotspot SAR test results of WLAN 5.8G

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	0.352	0.508	0.860	N/A	N/A
	Left Tilt 15 Degree	0.200	0.292	0.492	N/A	N/A
	Right Cheek	0.311	0.461	0.772	N/A	N/A
	Right Tilt 15 Degree	0.159	0.222	0.381	N/A	N/A
Body-Worn	Front Side	0.671	0.172	0.843	N/A	N/A
	Back Side	1.189	0.254	1.443	N/A	N/A
Hotspot	Front Side	0.671	0.172	0.843	N/A	N/A
	Back Side	1.189	0.254	1.443	N/A	N/A
	Left Side	0.332	N/A	0.332	N/A	N/A

	Right Side	0.168	0.083	0.251	N/A	N/A
	Top Side	N/A	0.108	0.108	N/A	N/A
	Bottom Side	0.541	N/A	0.541	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.352	0.671	1.023	N/A	N/A
	Left Tilt 15 Degree	0.200	0.354	0.554	N/A	N/A
	Right Cheek	0.311	0.582	0.893	N/A	N/A
	Right Tilt 15 Degree	0.159	0.300	0.459	N/A	N/A
Body-Worn	Front Side	0.671	0.221	0.892	N/A	N/A
	Back Side	1.189	0.351	1.540	N/A	N/A
Hotspot	Front Side	0.671	0.221	0.892	N/A	N/A
	Back Side	1.189	0.351	1.540	N/A	N/A
	Left Side	0.332	N/A	0.332	N/A	N/A
	Right Side	0.168	0.120	0.288	N/A	N/A
	Top Side	N/A	0.129	0.129	N/A	N/A
	Bottom Side	0.541	N/A	0.541	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.352	0.334	0.686	N/A	N/A
	Left Tilt 15 Degree	0.200	0.334	0.534	N/A	N/A
	Right Cheek	0.311	0.334	0.645	N/A	N/A
	Right Tilt 15 Degree	0.159	0.334	0.493	N/A	N/A
Body-Worn	Front Side	0.671	0.167	0.838	N/A	N/A
	Back Side	1.189	0.167	1.356	N/A	N/A
Hotspot	Front Side	0.671	0.167	0.838	N/A	N/A
	Back Side	1.189	0.167	1.356	N/A	N/A
	Left Side	0.332	N/A	0.332	N/A	N/A
	Right Side	0.168	0.167	0.335	N/A	N/A

	Top Side	N/A	0.167	0.167	N/A	N/A
	Bottom Side	0.541	N/A	0.541	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 6 System Performance Check - 2600MHz
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MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

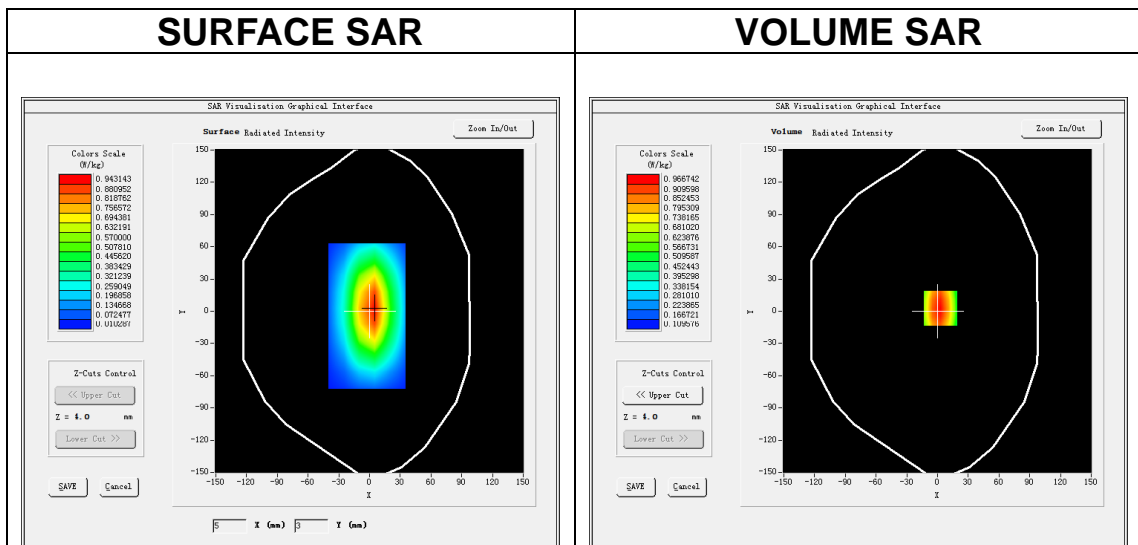
Date of measurement: 1/9/2022

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>CW750</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

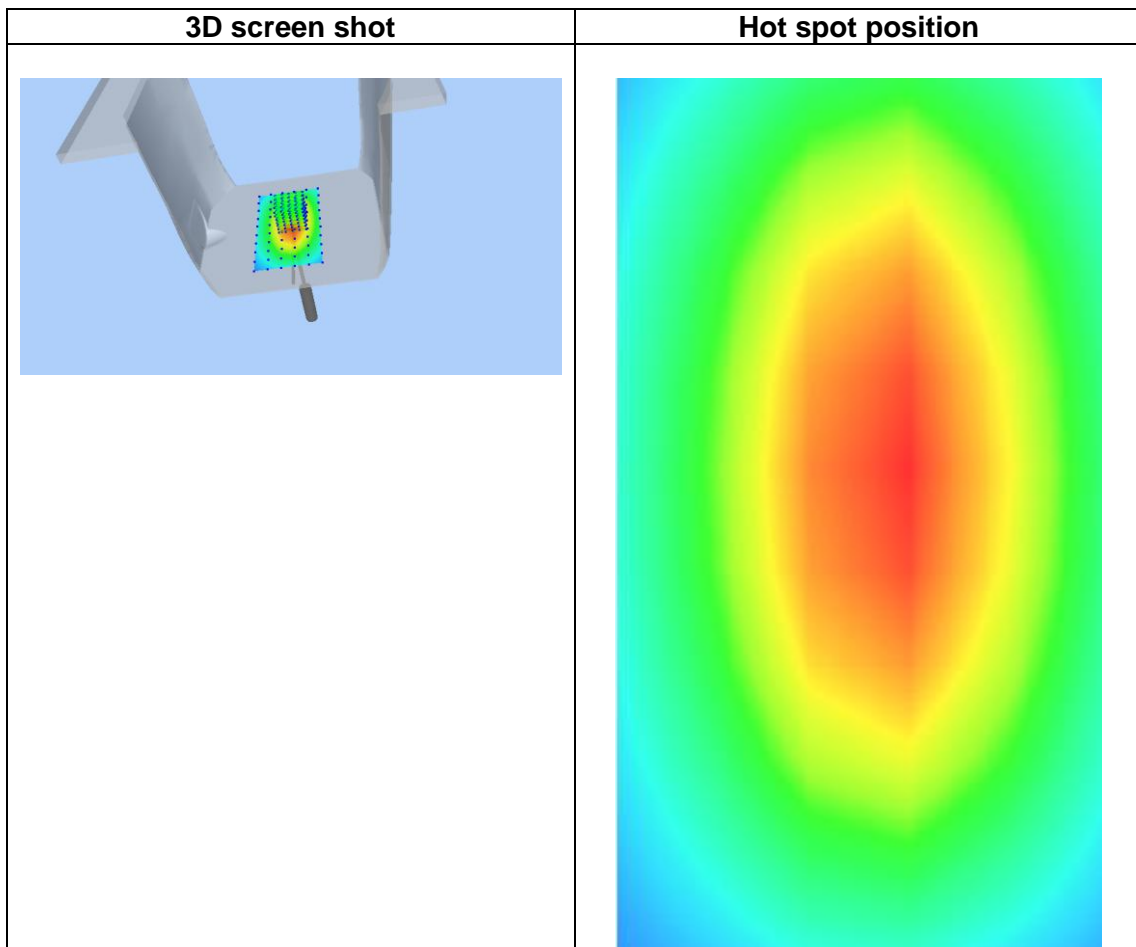
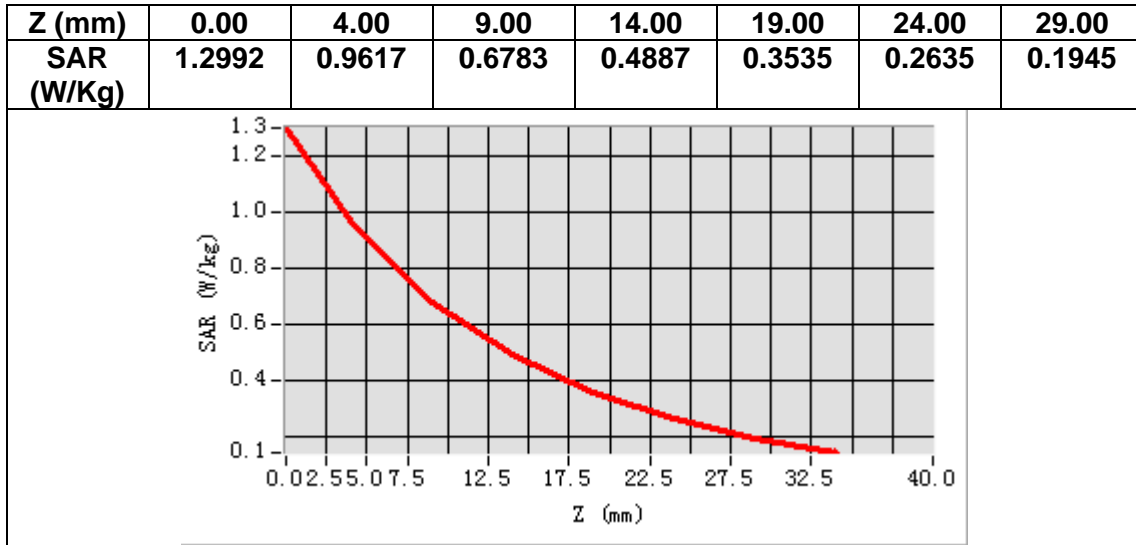
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	40.129713
Relative permittivity (imaginary part)	21.396098
Conductivity (S/m)	0.891504
Variation (%)	2.730000



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

SAR 10g (W/Kg)	0.550332
SAR 1g (W/Kg)	0.789321



MEASUREMENT 2

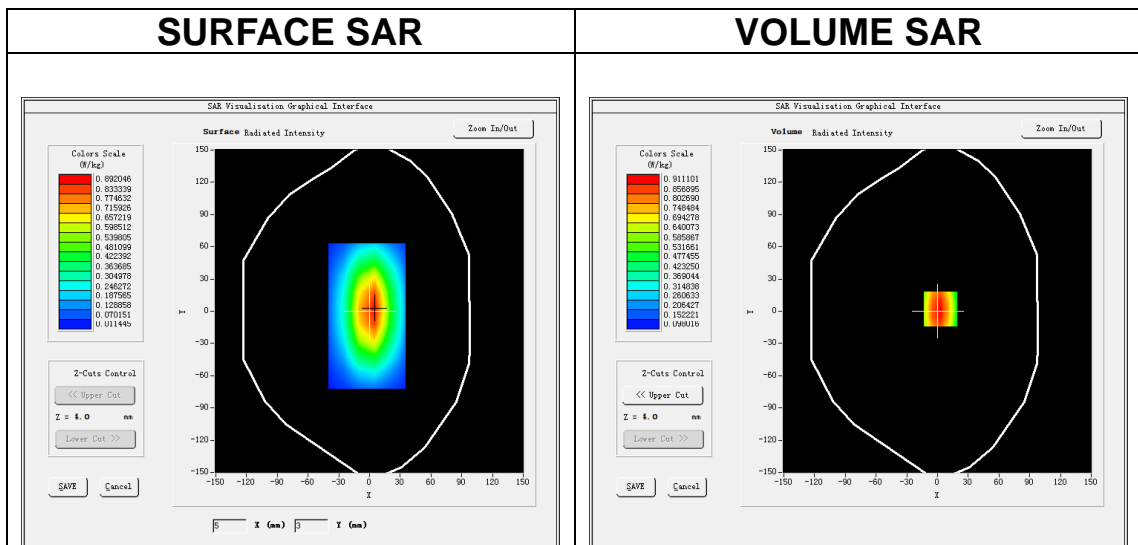
Date of measurement: 12/9/2022

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>

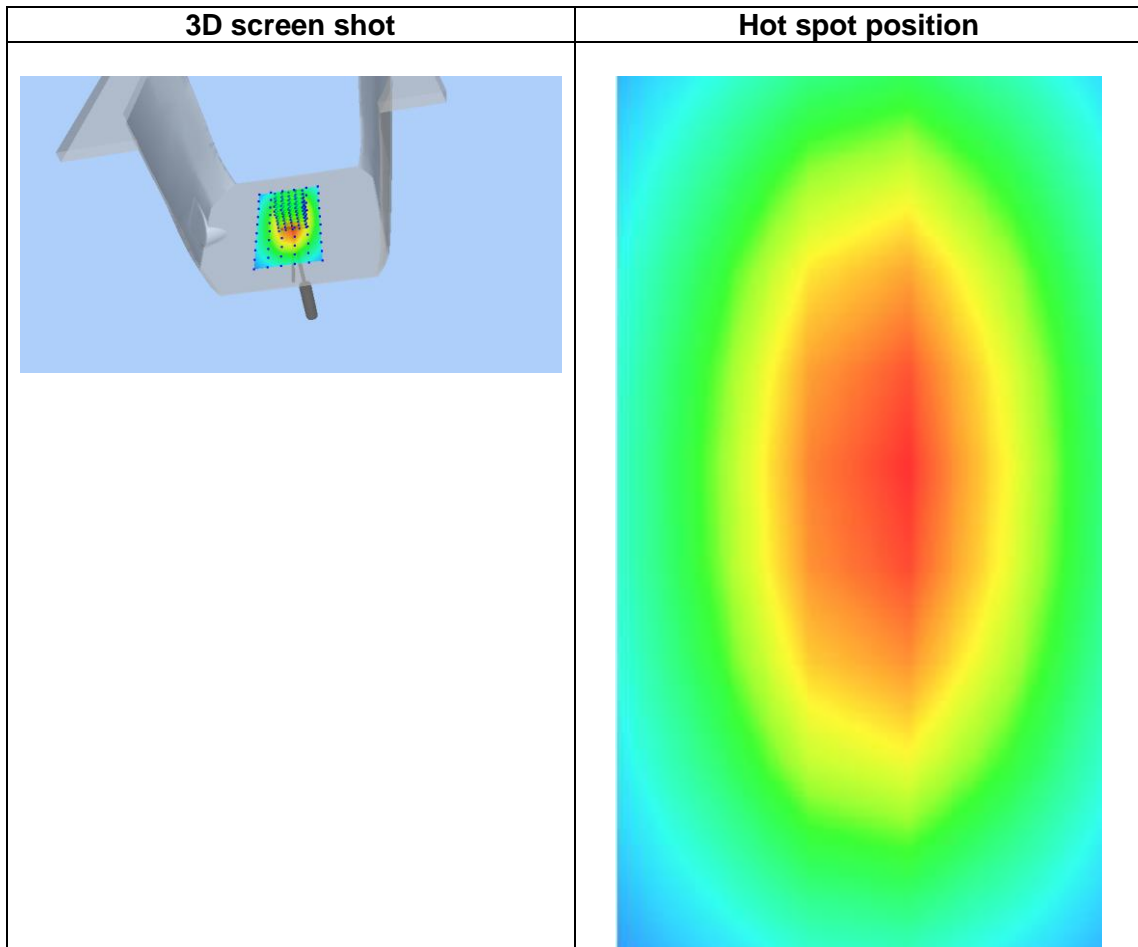
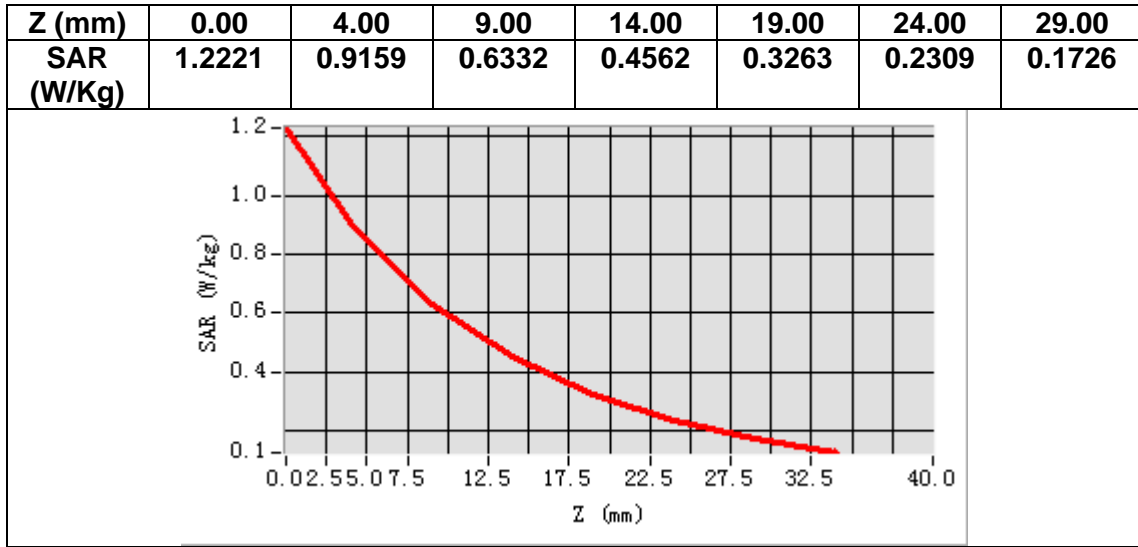
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.503672
Relative permittivity (imaginary part)	20.044007
Conductivity (S/m)	0.929819
Variation (%)	-2.720000



Maximum location: X=3.00, Y=2.00
SAR Peak: 1.23 W/Kg

SAR 10g (W/Kg)	0.679333
SAR 1g (W/Kg)	1.020172



MEASUREMENT 3

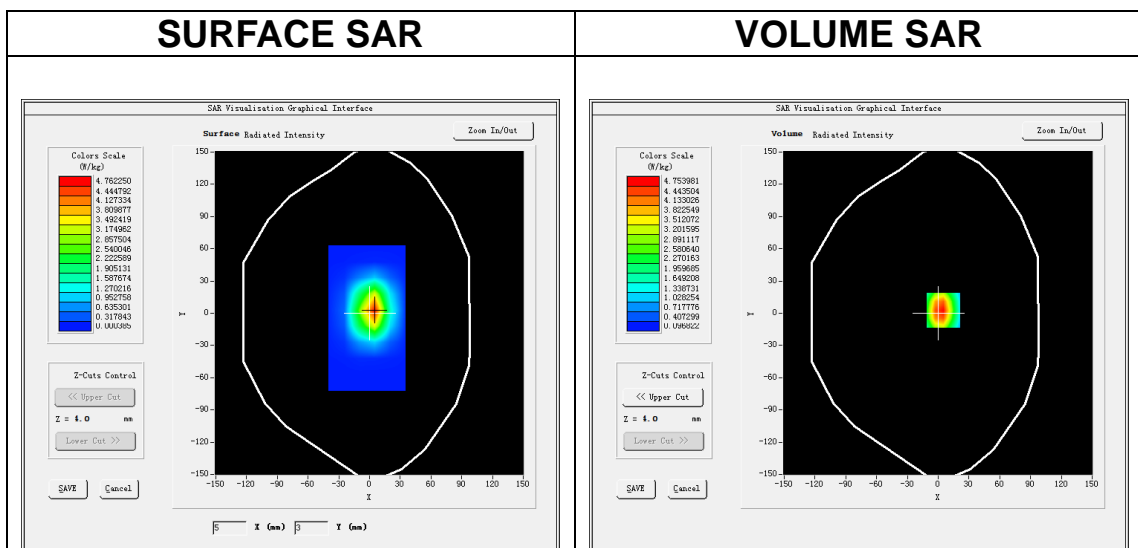
Date of measurement: 2/9/2022

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

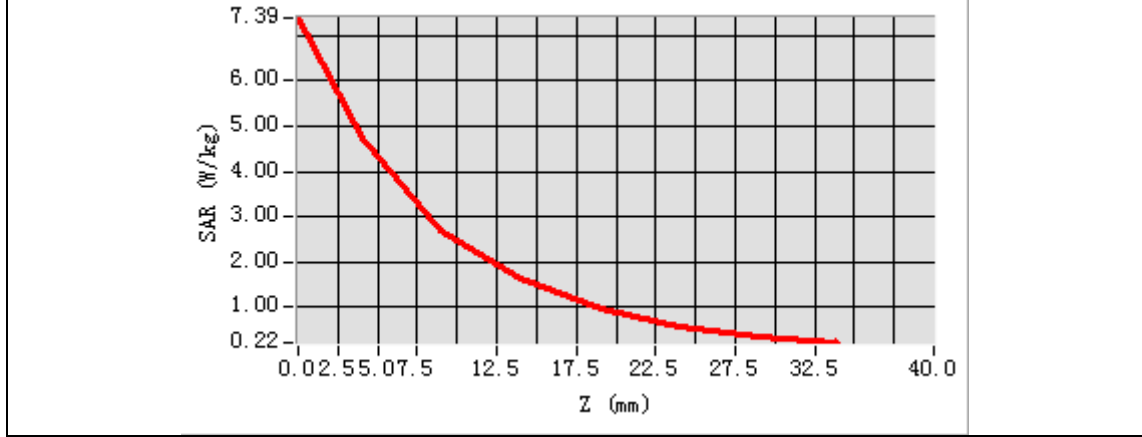
Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.607277
Relative permittivity (imaginary part)	13.969599
Conductivity (S/m)	1.396960
Variation (%)	2.980000

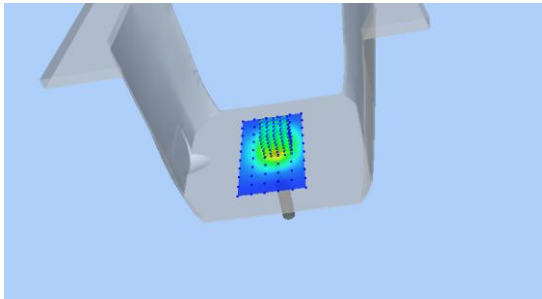
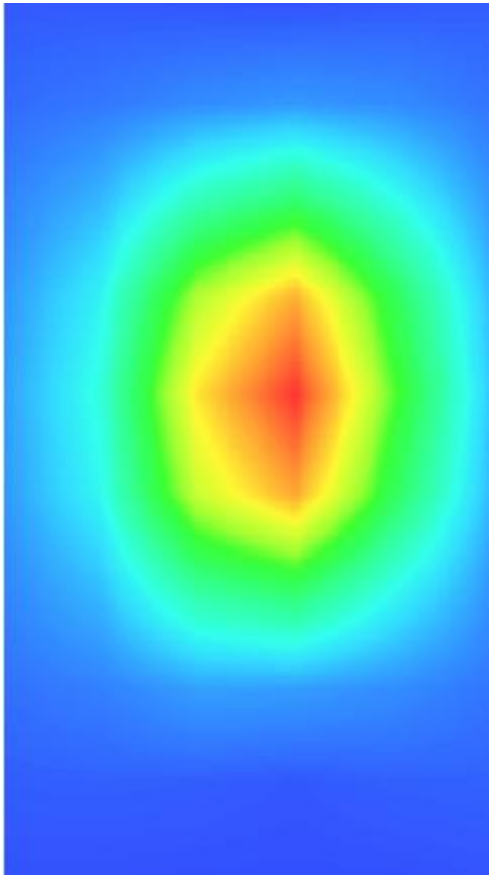


Maximum location: X=5.00, Y=3.00
SAR Peak: 7.59 W/kg

SAR 10g (W/Kg)	1.948307
SAR 1g (W/Kg)	4.081066

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.3874	4.7511	2.7029	1.6103	0.9672	0.5831	0.3534



3D screen shot	Hot spot position
	

MEASUREMENT 4

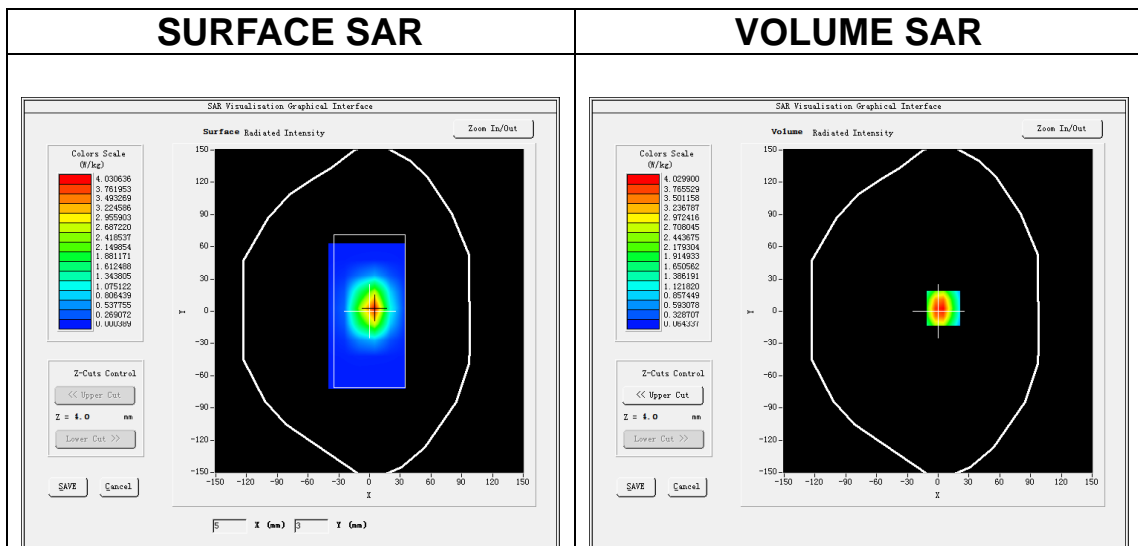
Date of measurement: 14/9/2022

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>CW1900</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.91</u>

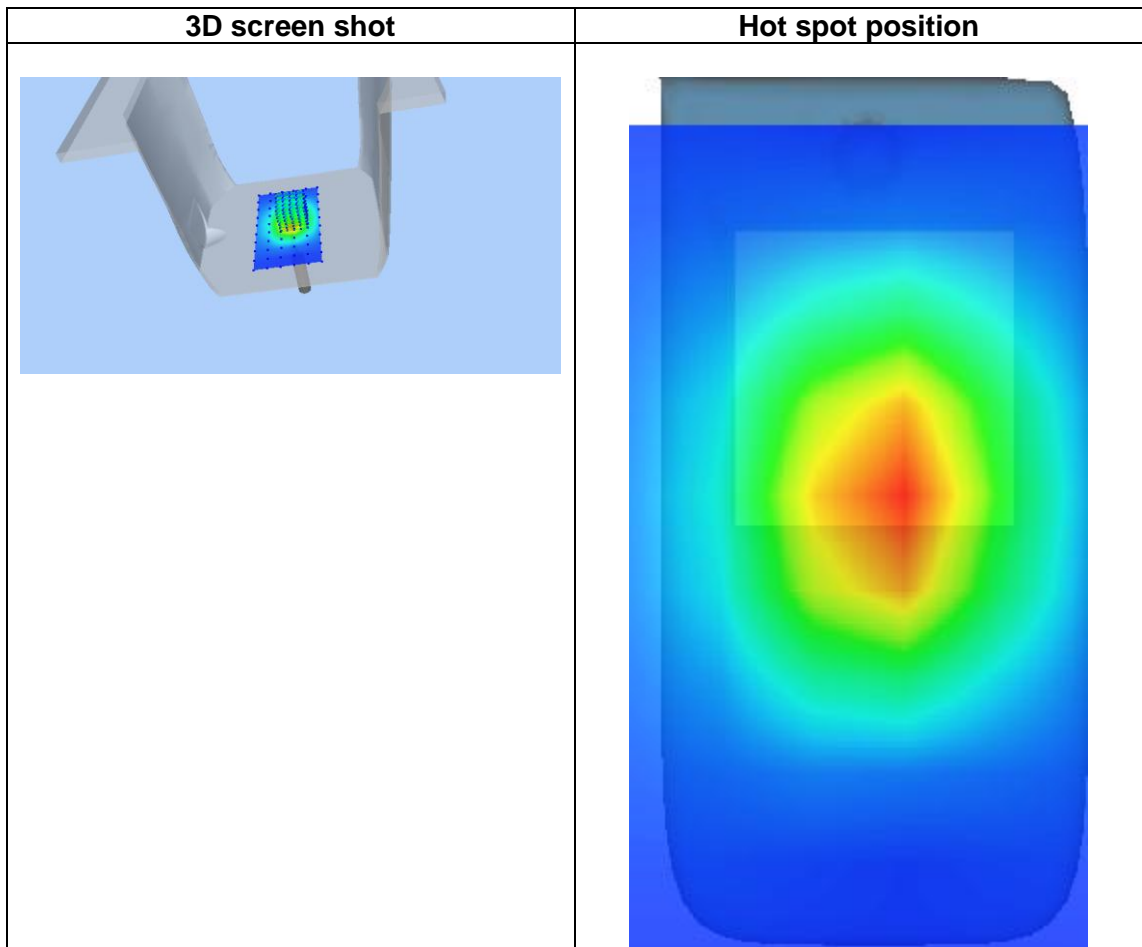
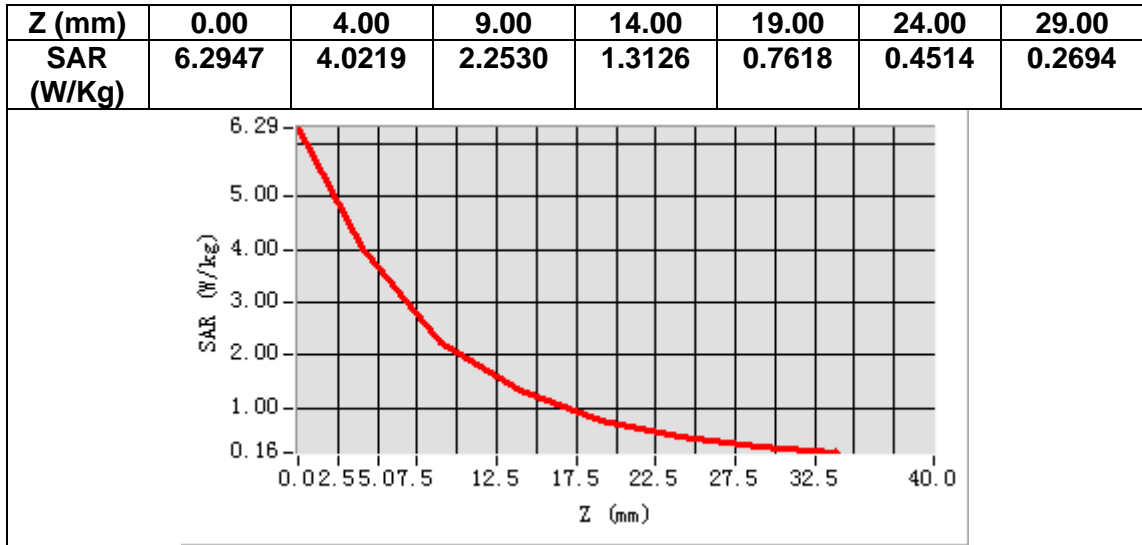
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.479130
Relative permittivity (imaginary part)	13.867253
Conductivity (S/m)	1.463766
Variation (%)	2.220000



Maximum location: X=5.00, Y=3.00
SAR Peak: 6.57 W/kg

SAR 10g (W/Kg)	1.877347
SAR 1g (W/Kg)	4.175221



MEASUREMENT 5

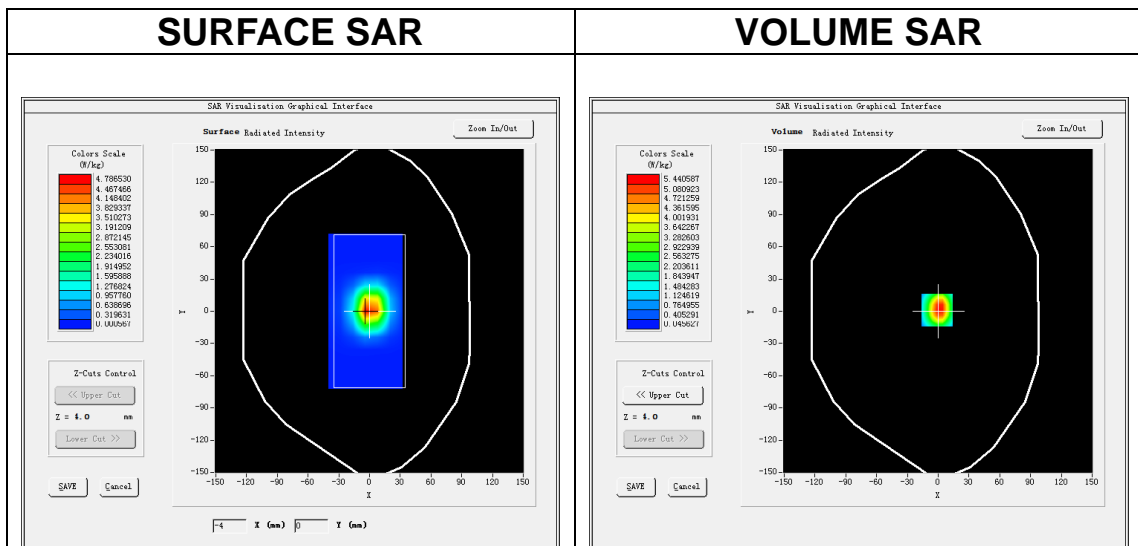
Date of measurement: 7/9/2022

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>

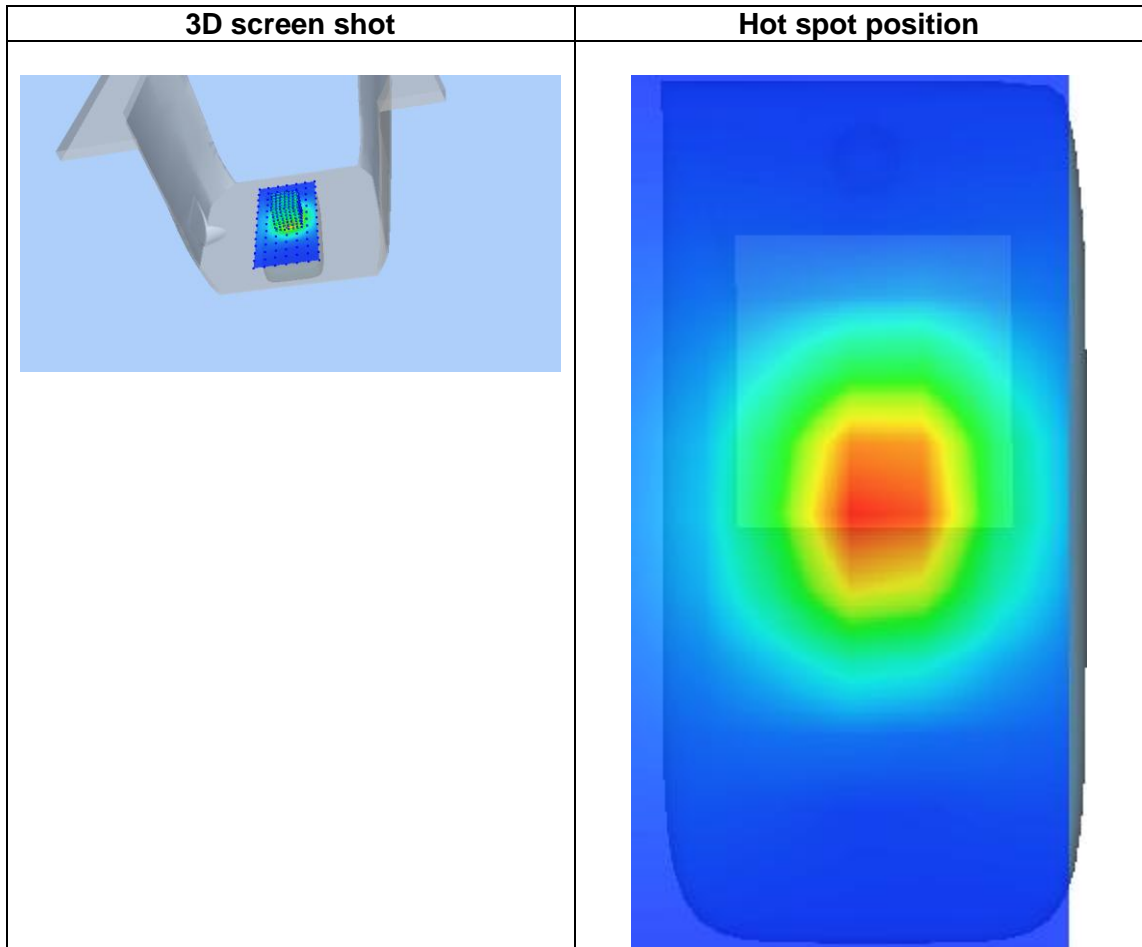
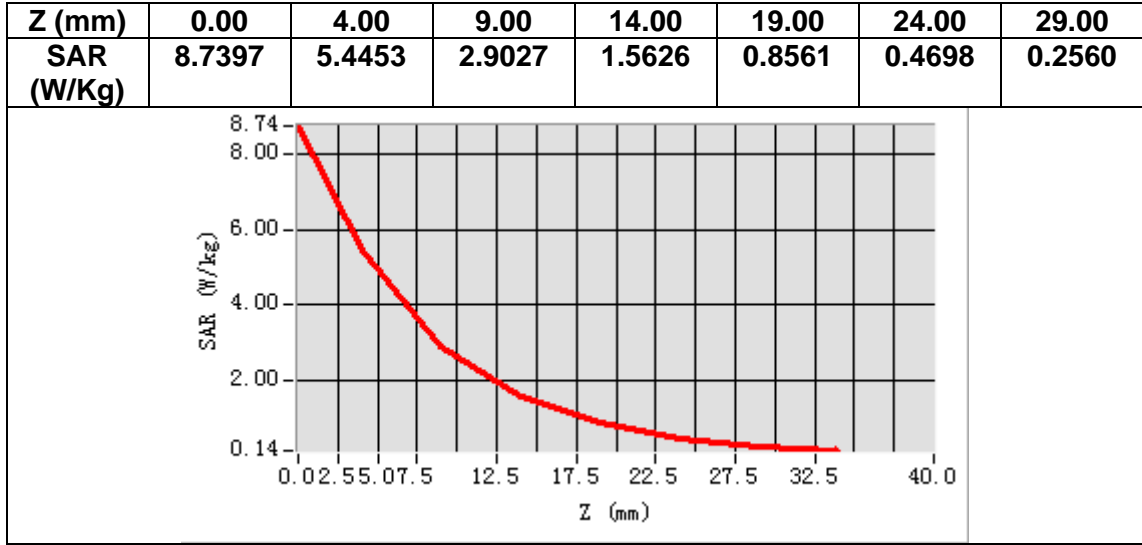
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.924835
Relative permittivity (imaginary part)	13.152103
Conductivity (S/m)	1.790147
Variation (%)	1.290000



Maximum location: X=-1.00, Y=1.00
SAR Peak: 8.94 W/kg

SAR 10g (W/Kg)	2.431106
SAR 1g (W/Kg)	5.730340



MEASUREMENT 6

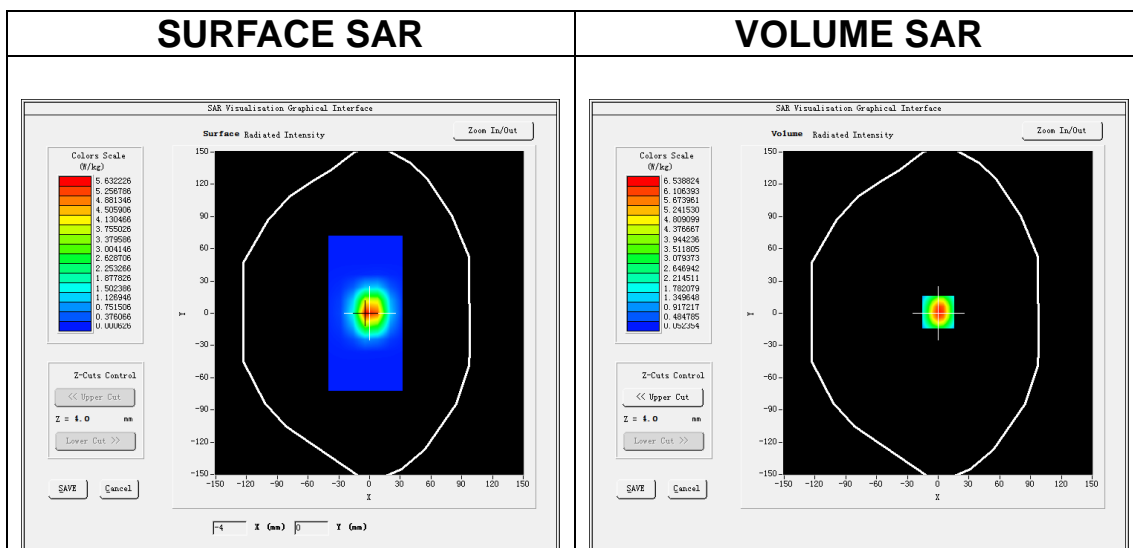
Date of measurement: 6/9/2022

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

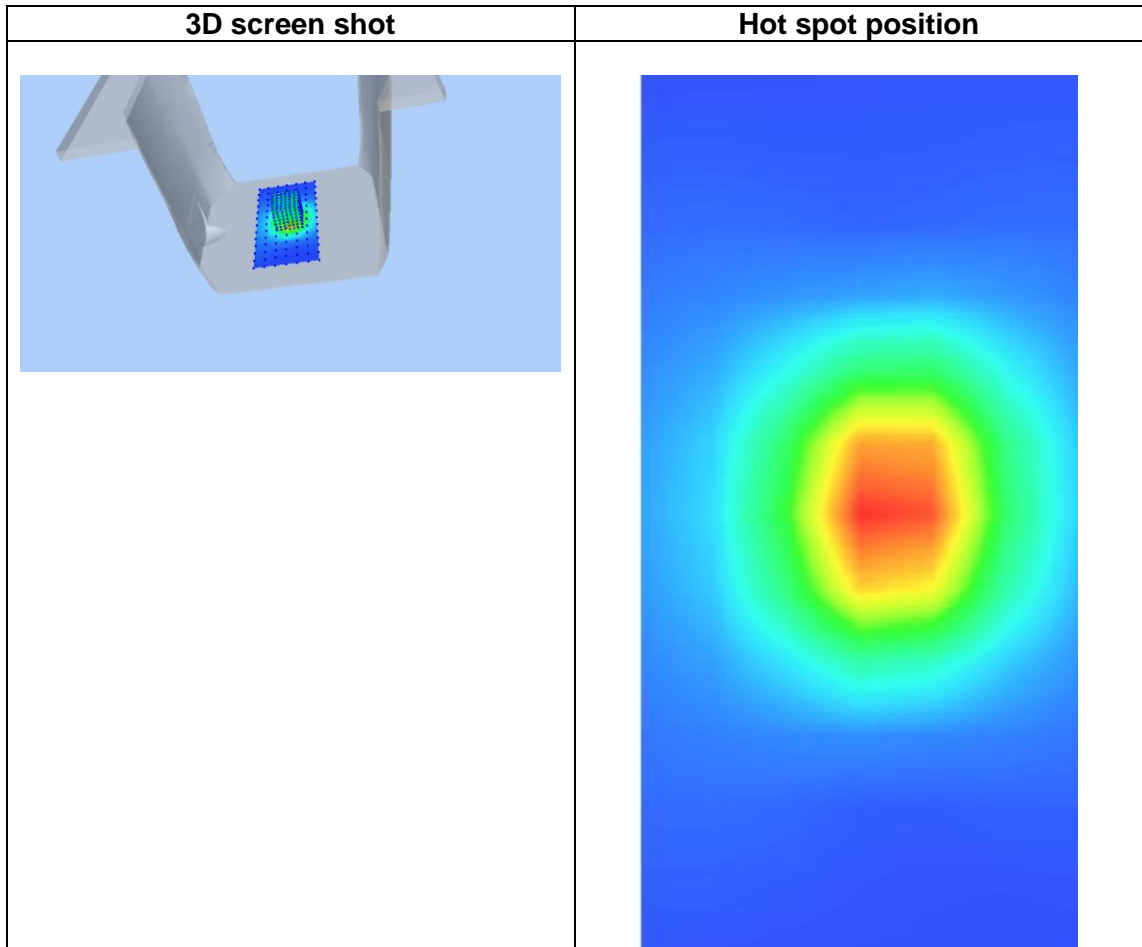
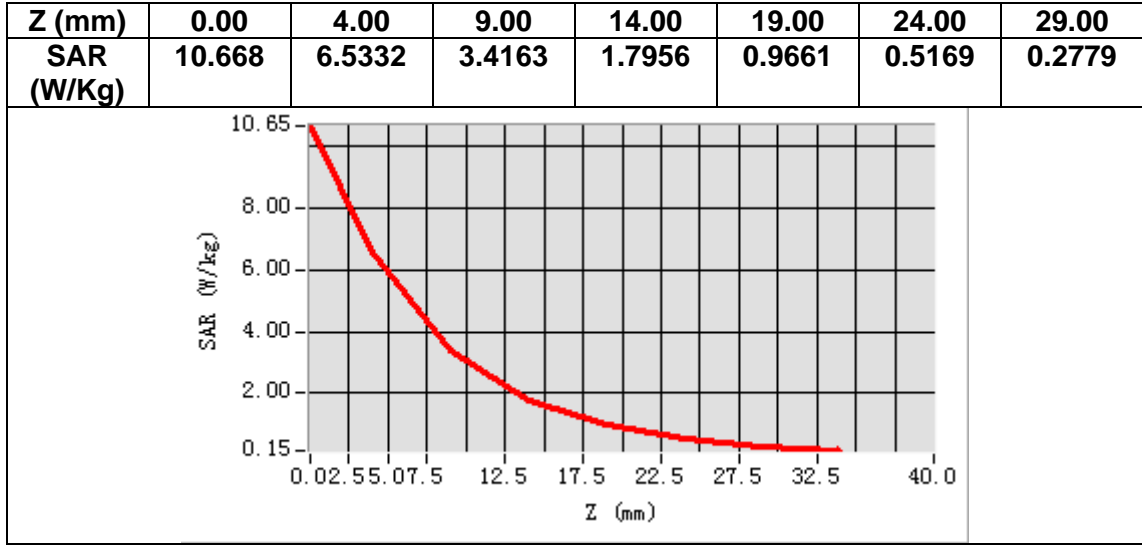
Frequency (MHz)	2600.000000
Relative permittivity (real part)	37.816374
Relative permittivity (imaginary part)	13.365353
Conductivity (S/m)	1.930551
Variation (%)	0.250000



Maximum location: X=0.00, Y=1.00

SAR Peak: 10.67 W/kg

SAR 10g (W/Kg)	2.521037
SAR 1g (W/Kg)	5.098199



MEASUREMENT 7

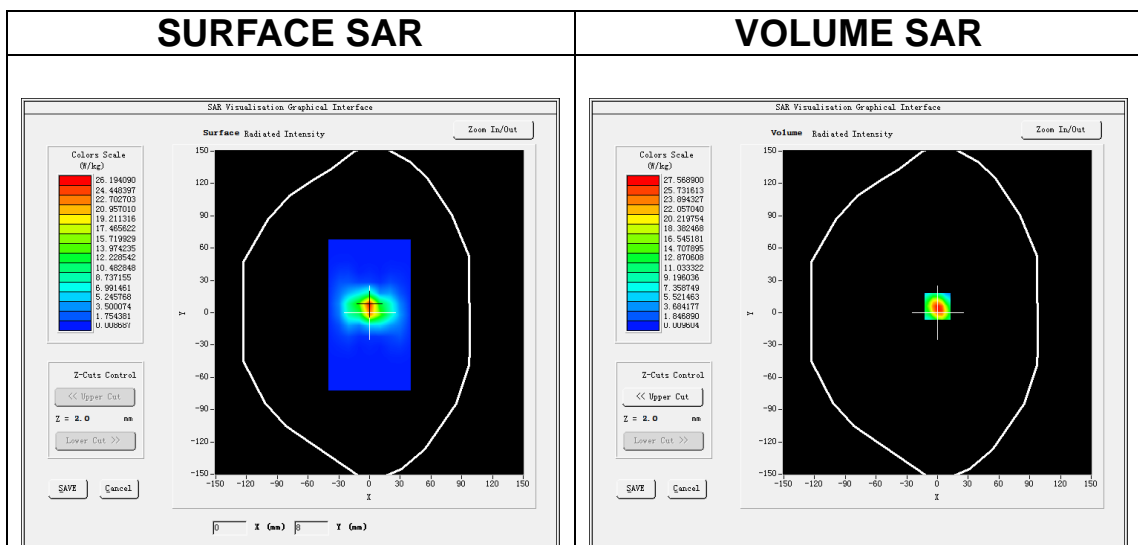
Date of measurement: 31/8/2022

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.362279
Relative permittivity (imaginary part)	15.654967
Conductivity (S/m)	4.522546
Variation (%)	2.800000

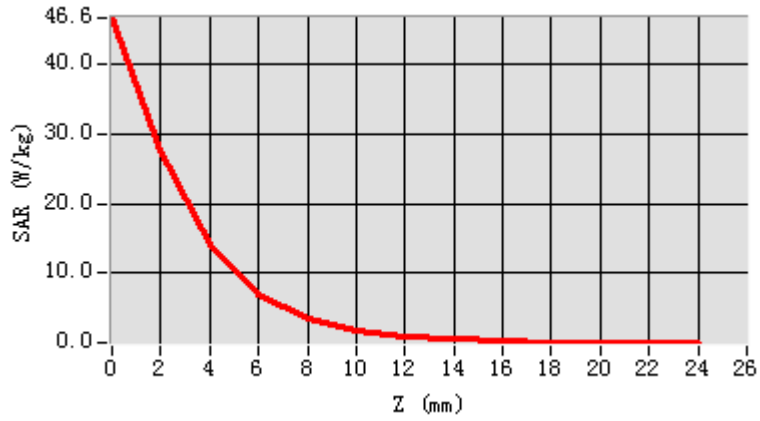


Maximum location: X=0.00, Y=6.00

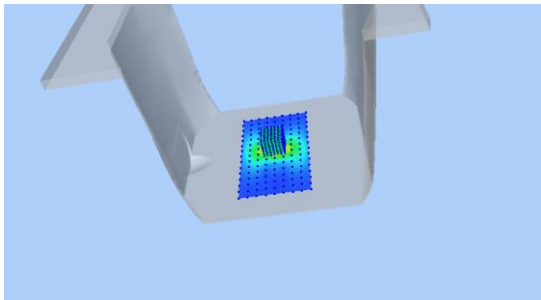
SAR Peak: 49.61 W/kg

SAR 10g (W/Kg)	5.513162
SAR 1g (W/Kg)	14.871032

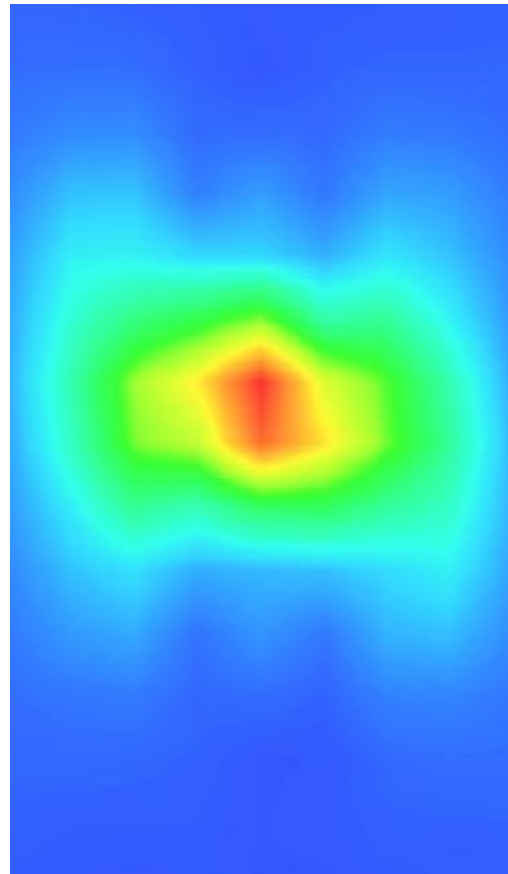
Z (m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	46.691	27.591	14.077	7.0594	3.5991	1.7843	0.8950	0.4637	0.2402	0.1308	0.0627	0.0497



3D screen shot



Hot spot position



MEASUREMENT 8

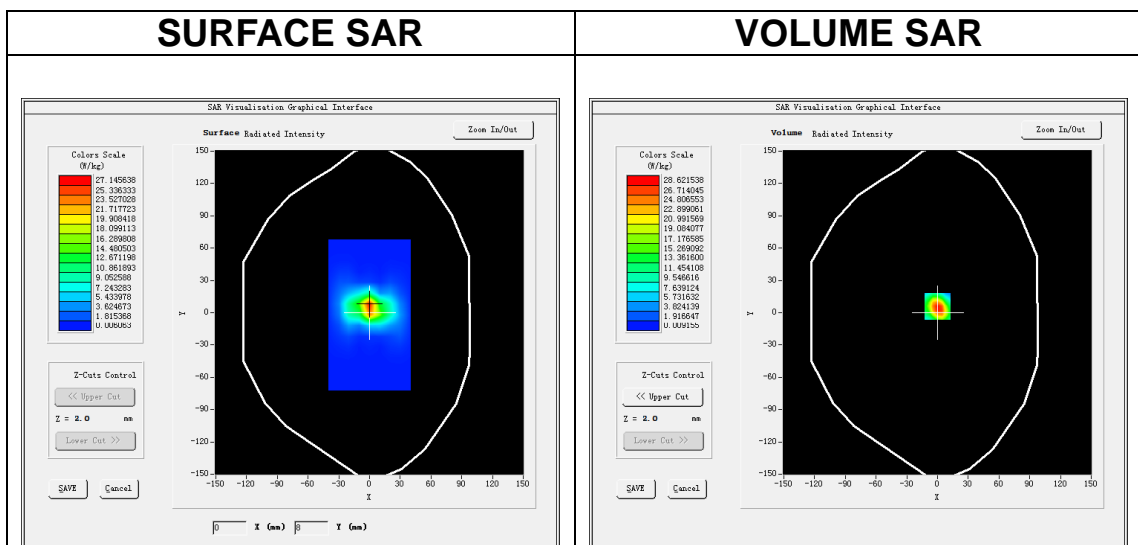
Date of measurement: 29/8/2022

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.258418
Relative permittivity (imaginary part)	15.936026
Conductivity (S/m)	5.134942
Variation (%)	-0.500000

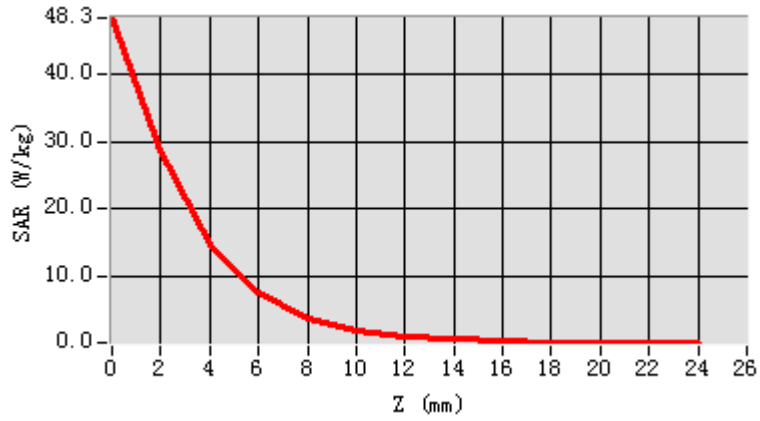


Maximum location: X=0.00, Y=6.00

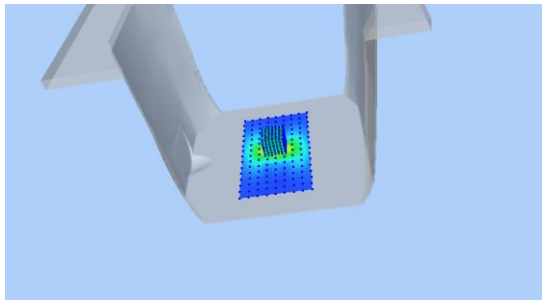
SAR Peak: 51.30 W/kg

SAR 10g (W/Kg)	5.875228
SAR 1g (W/Kg)	19.516190

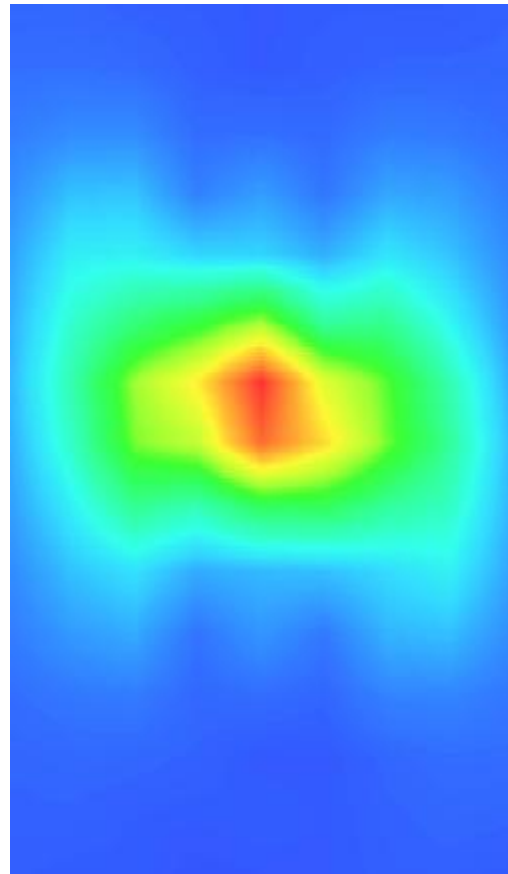
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	48.3 36	28.6 48	14.6 44	7.40 66	3.68 90	1.83 50	0.93 61	0.47 44	0.25 95	0.13 72	0.07 88	0.05 38



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 7 WCDMA Band 4 Head
MEASUREMENT 8 WCDMA Band 4 Body
MEASUREMENT 9 WCDMA Band 5 Head
MEASUREMENT 10 WCDMA Band 5 Body
MEASUREMENT 11 WLAN 5.2G Head
MEASUREMENT 12 WLAN 5.8G Head
MEASUREMENT 13 WLAN 5.2G Body
MEASUREMENT 14 WLAN 5.8G Body
MEASUREMENT 15 WLAN 2.4G Head
MEASUREMENT 16 WLAN 2.4G Body
MEASUREMENT 17 LTE Band 2 Head
MEASUREMENT 18 LTE Band 2 Body
MEASUREMENT 19 LTE Band 4 Head
MEASUREMENT 20 LTE Band 4 Body
MEASUREMENT 21 LTE Band 5 Head
MEASUREMENT 22 LTE Band 5 Body
MEASUREMENT 23 LTE Band 7 Head
MEASUREMENT 24 LTE Band 7 Body
MEASUREMENT 25 LTE Band 12 Head
MEASUREMENT 26 LTE Band 12 Body
MEASUREMENT 27 LTE Band 17 Head
MEASUREMENT 28 LTE Band 17 Body
MEASUREMENT 29 NR SA n41 Head
MEASUREMENT 30 NR SA n41 Body

MEASUREMENT 1

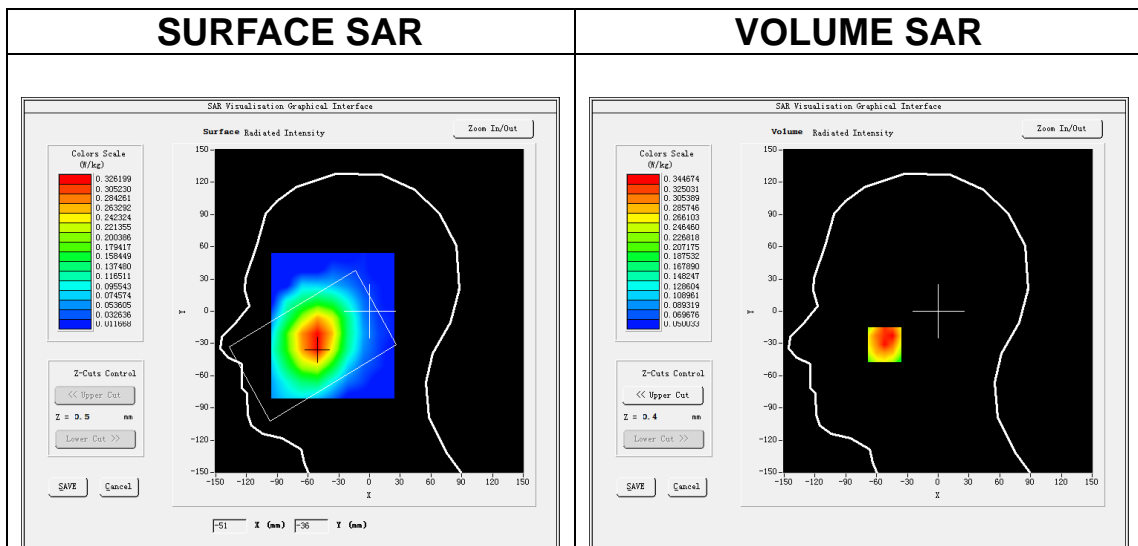
Date of measurement: 12/9/2022

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: 2.0)</u>
ConvF	<u>1.50</u>

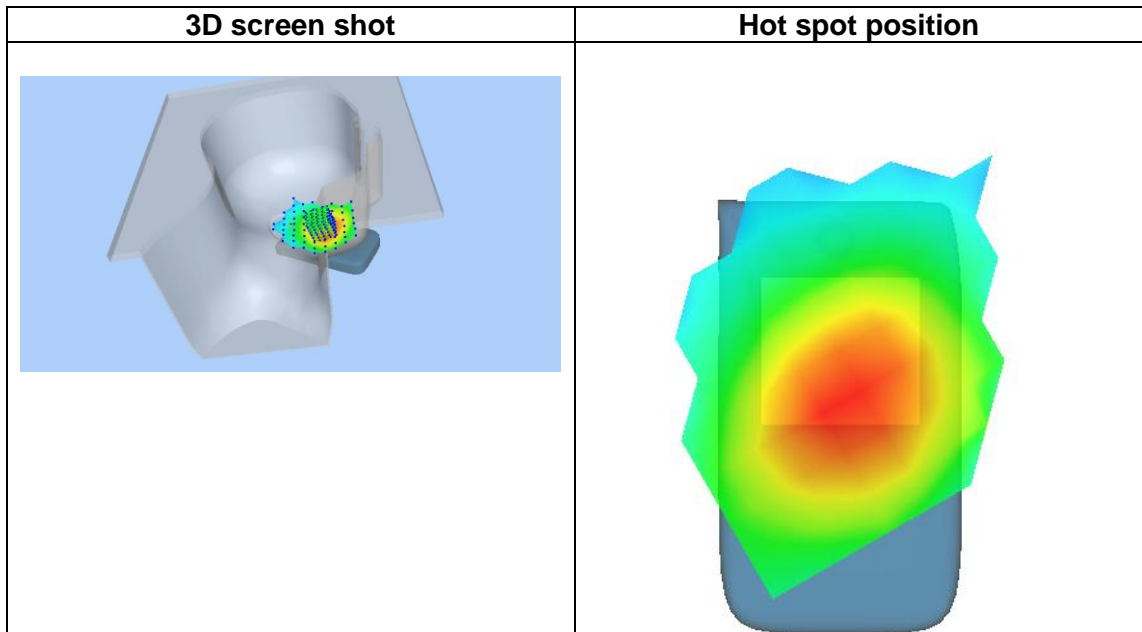
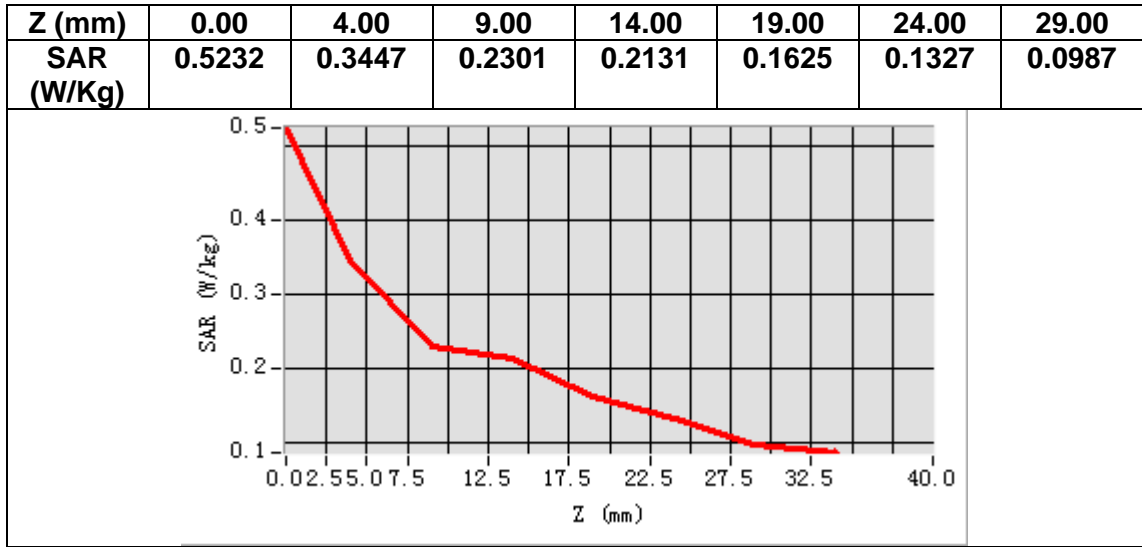
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	-3.910000



Maximum location: X=-52.00, Y=-31.00
SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.253559
SAR 1g (W/Kg)	0.341897



MEASUREMENT 2

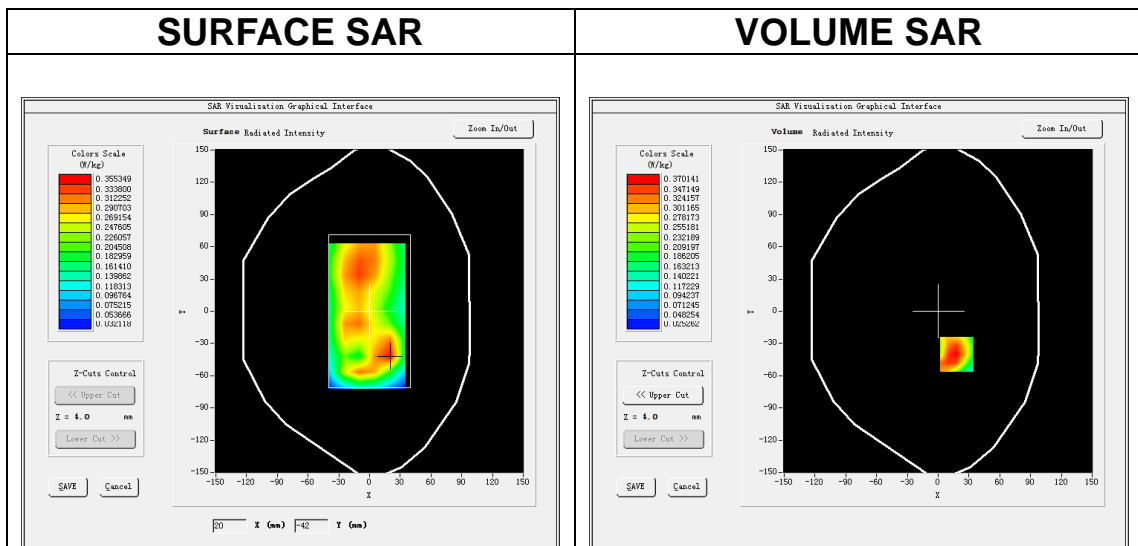
Date of measurement: 12/9/2022

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: 2.0)</u>
ConvF	<u>1.50</u>

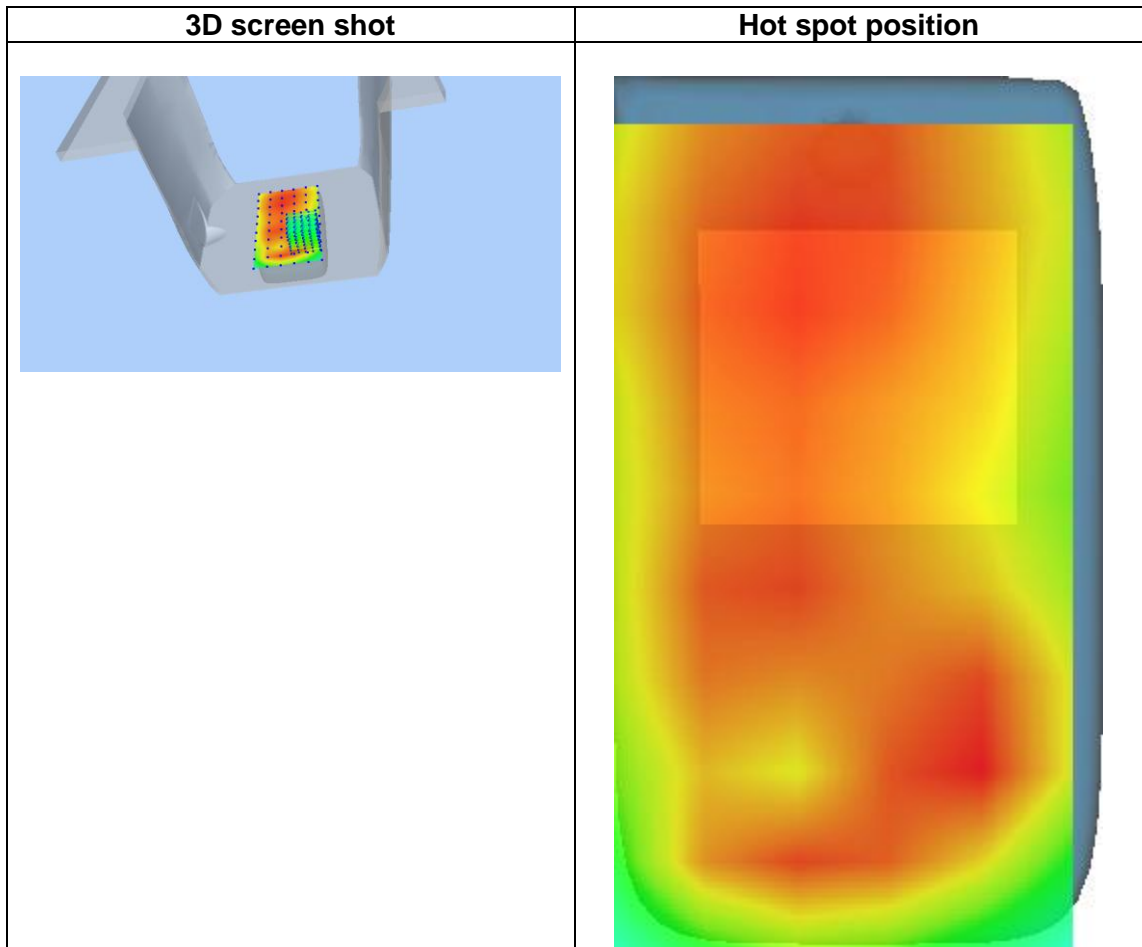
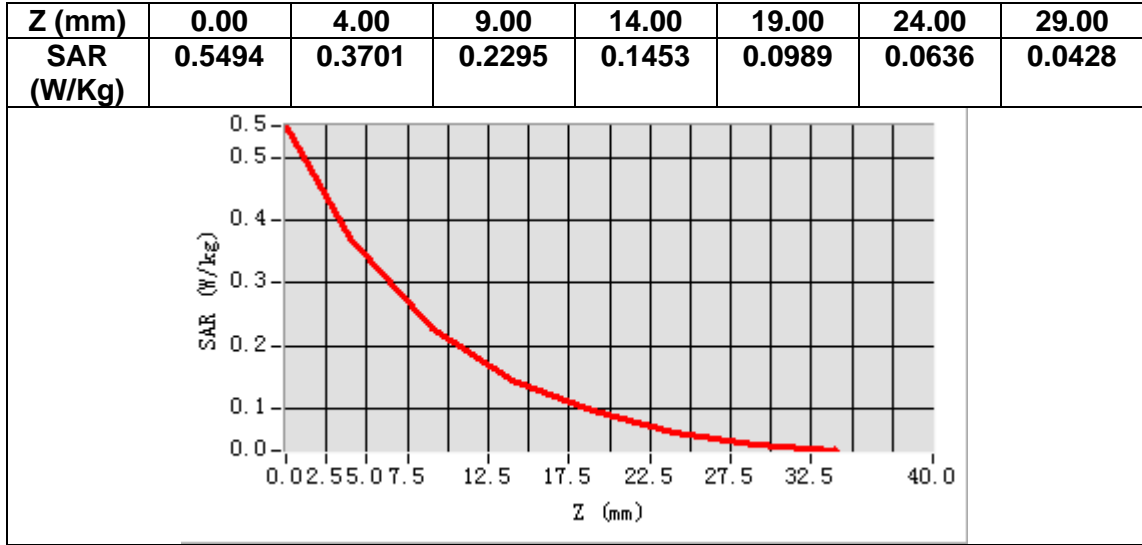
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	0.050000



Maximum location: X=18.00, Y=-40.00
SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.217828
SAR 1g (W/Kg)	0.374526



MEASUREMENT 3

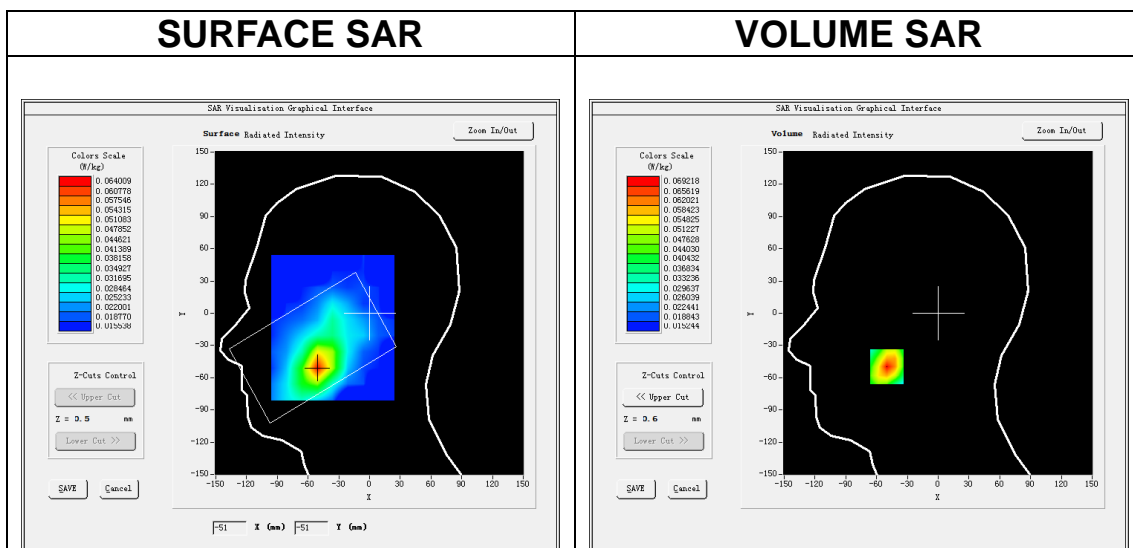
Date of measurement: 14/9/2022

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>GSM1900</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.0)</u>
ConvF	<u>1.91</u>

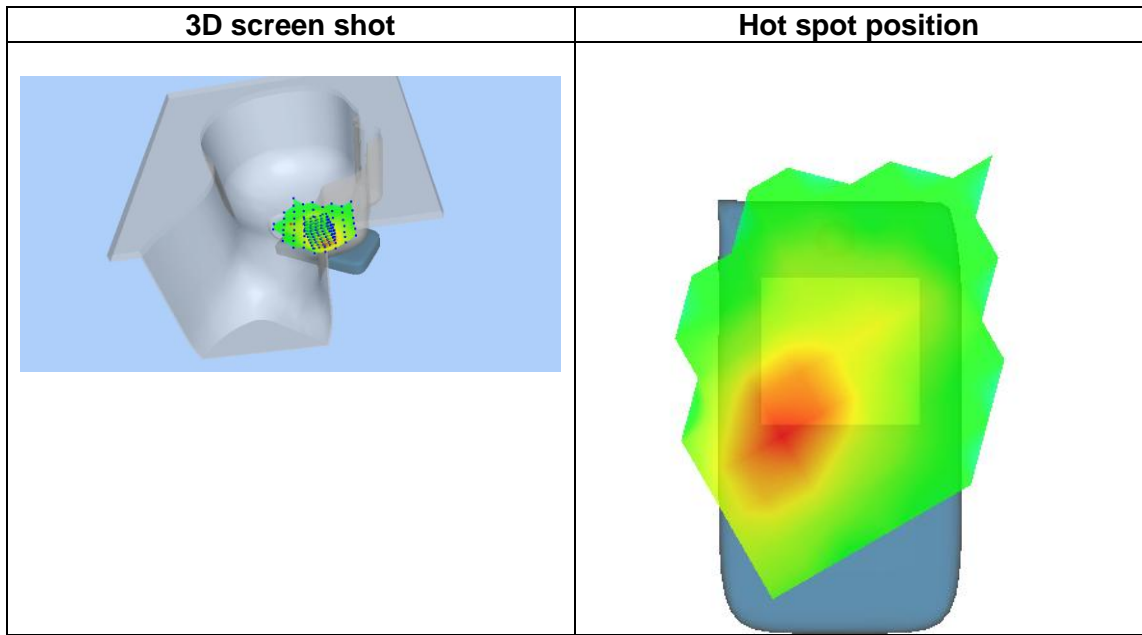
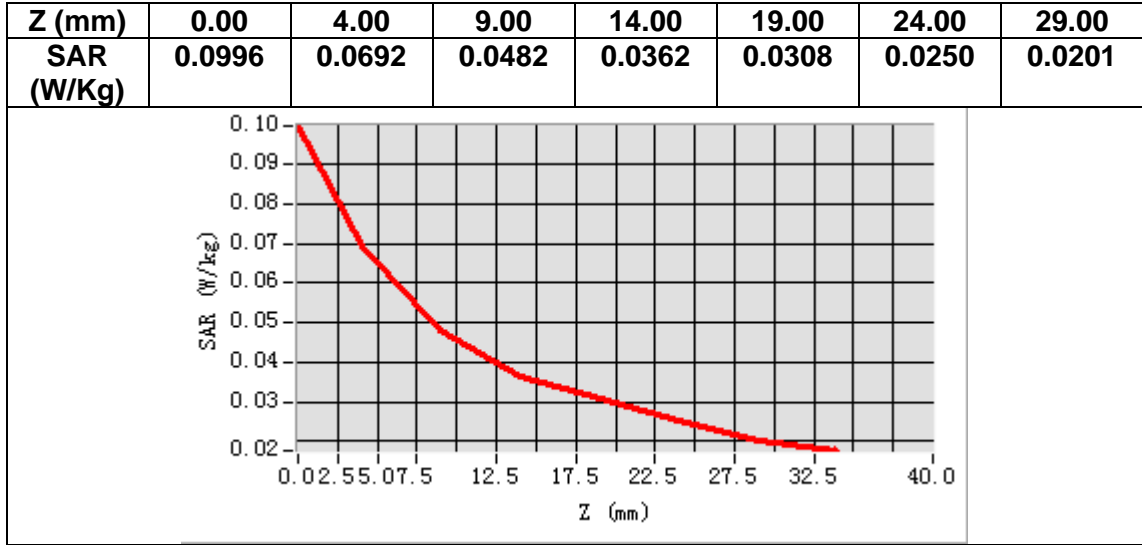
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-1.580000



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

SAR 10g (W/Kg)	0.044317
SAR 1g (W/Kg)	0.067911



MEASUREMENT 4

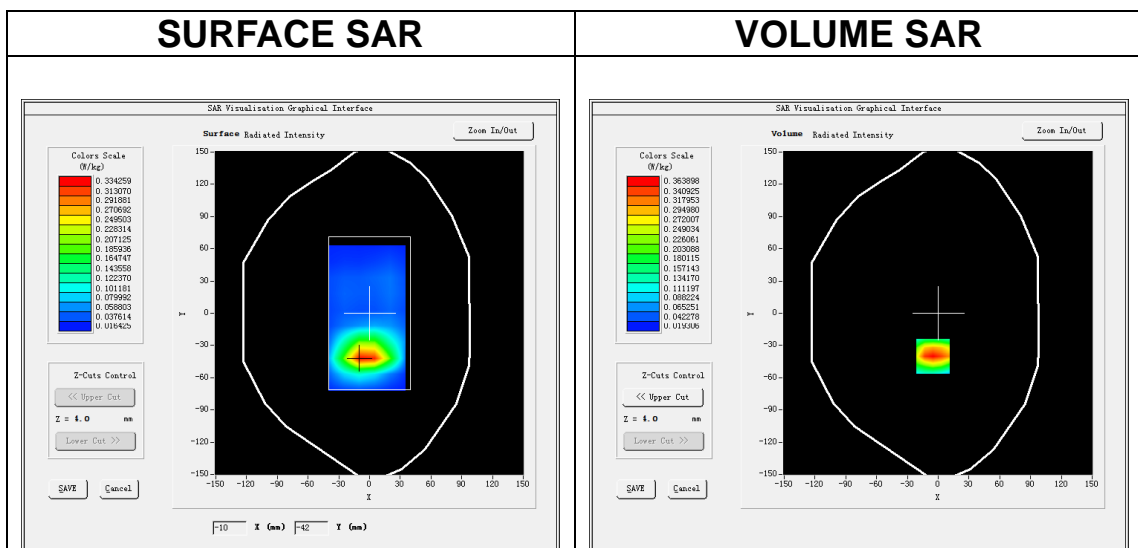
Date of measurement: 14/9/2022

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>GSM1900</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.0)</u>
ConvF	<u>1.91</u>

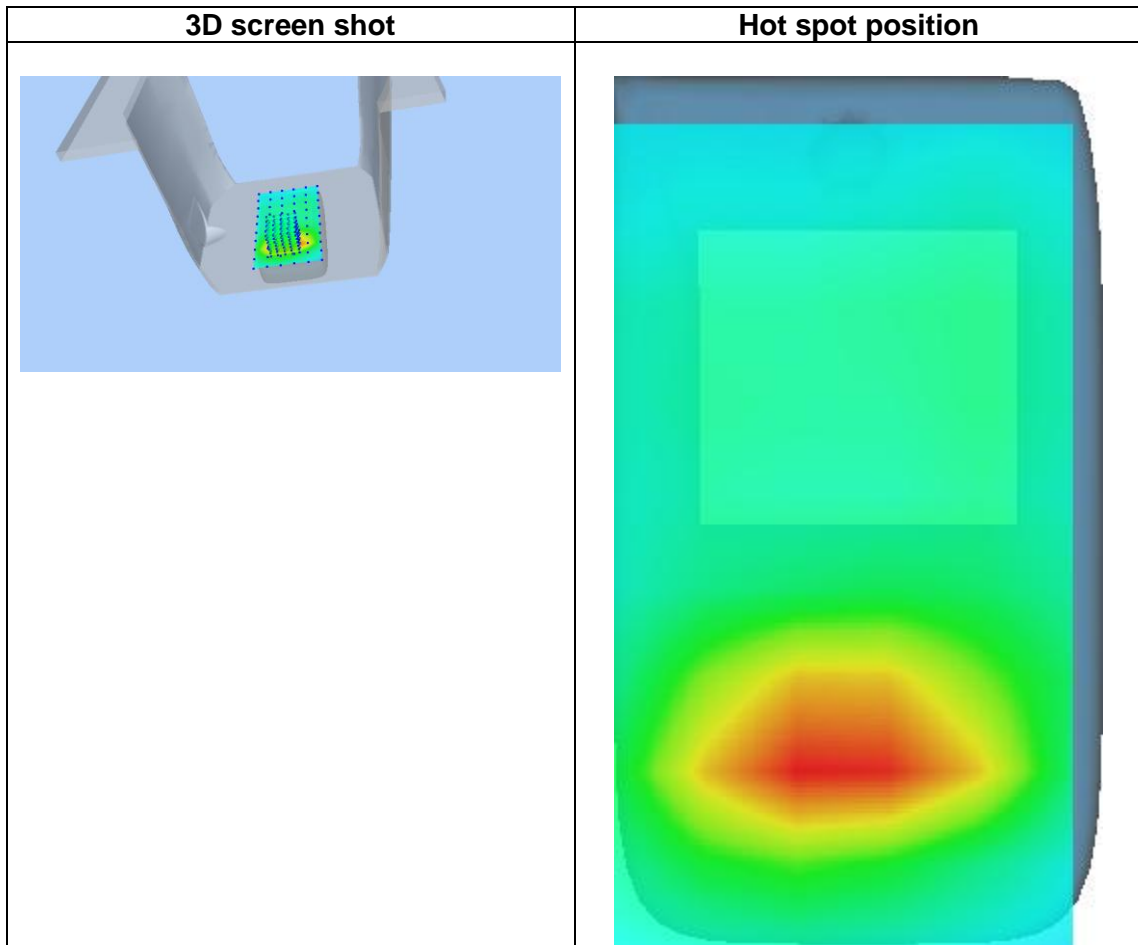
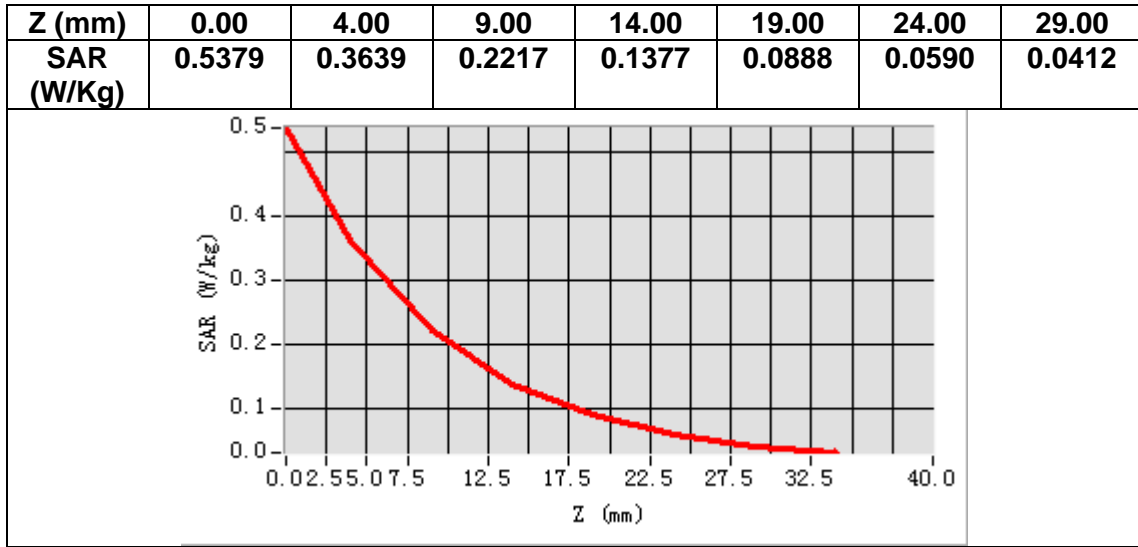
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	0.060000



Maximum location: X=-5.00, Y=-40.00
SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.193415
SAR 1g (W/Kg)	0.353118



MEASUREMENT 5

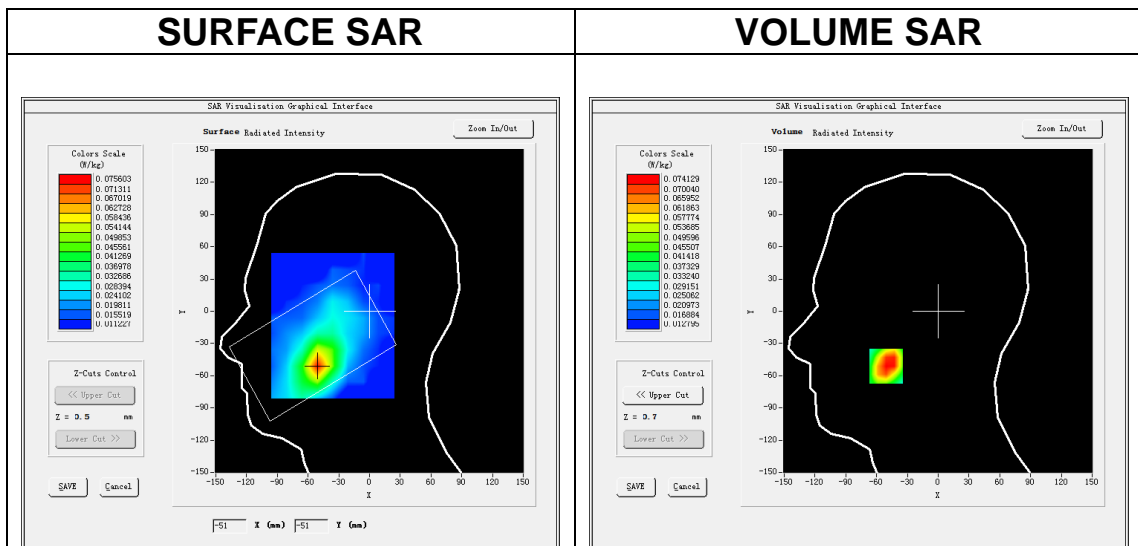
Date of measurement: 14/9/2022

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>Band2 WCDMA1900</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>1.91</u>

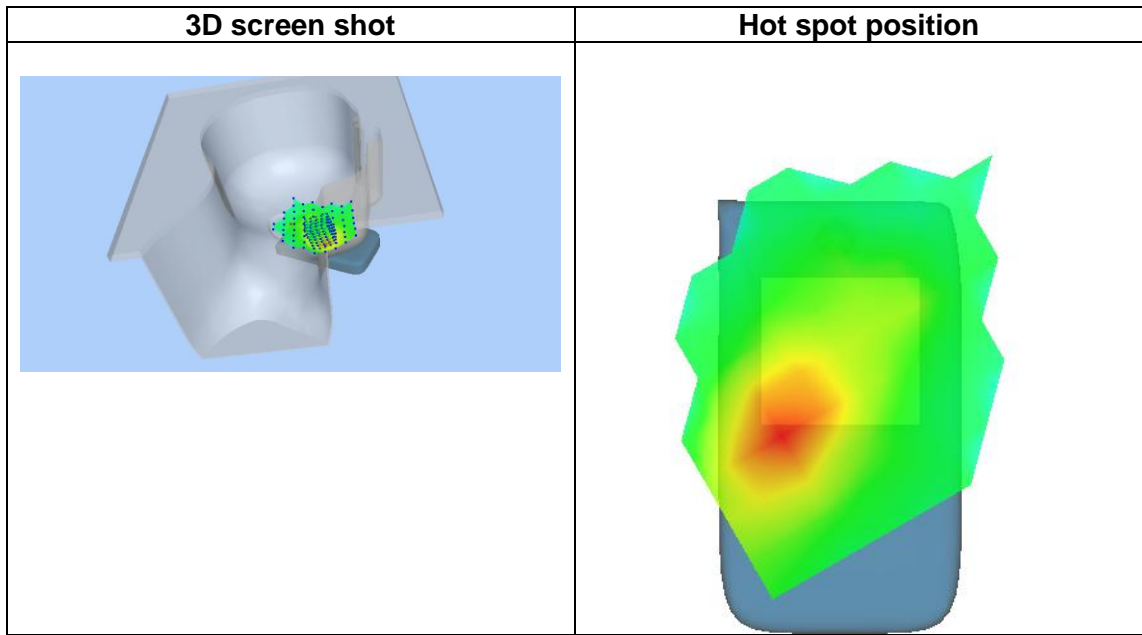
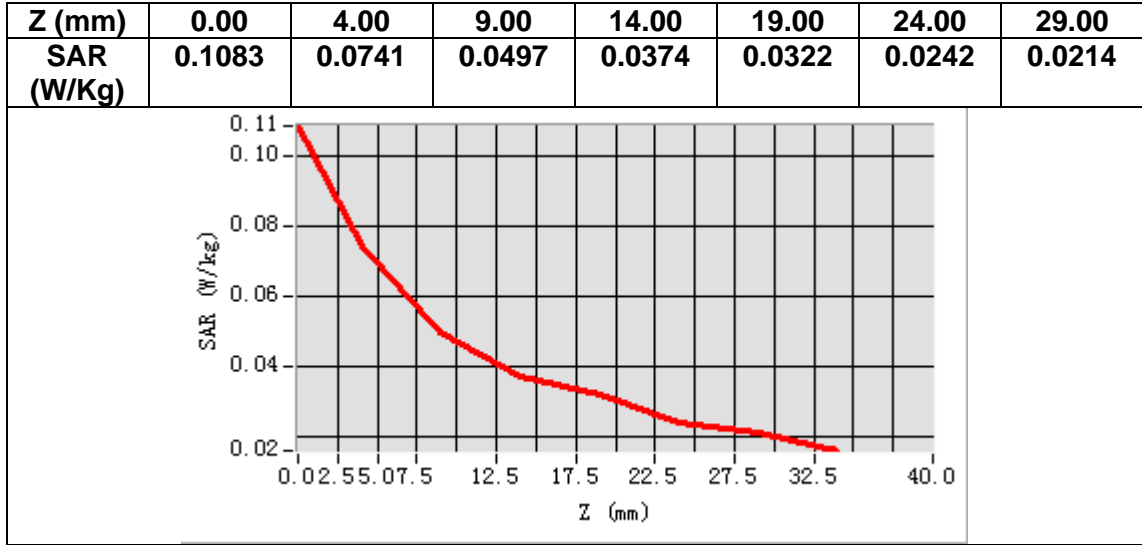
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-2.160000



Maximum location: X=-51.00, Y=-51.00
SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.047614
SAR 1g (W/Kg)	0.076976



MEASUREMENT 6

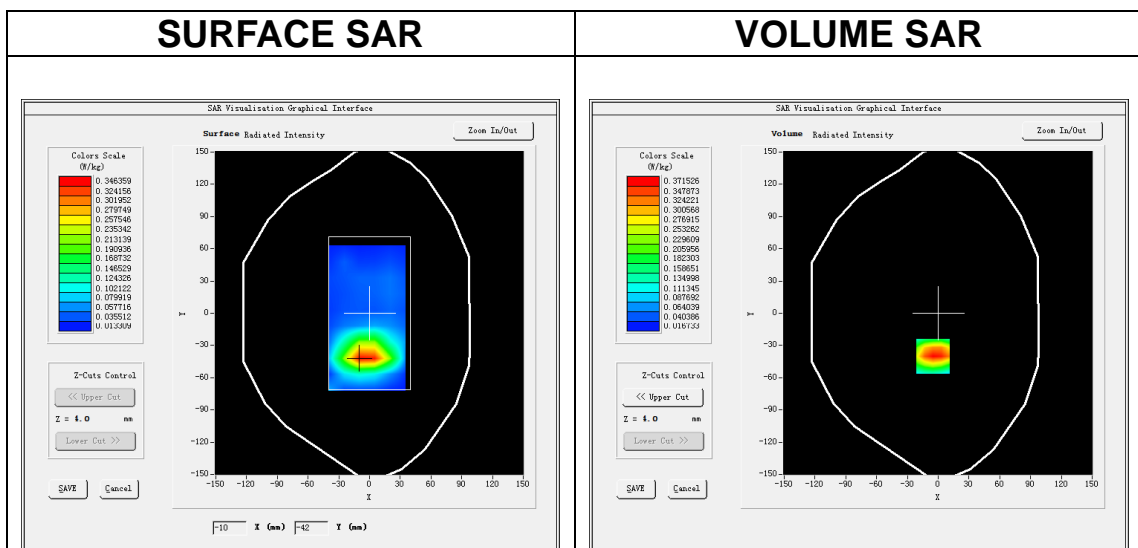
Date of measurement: 14/9/2022

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>Band2 WCDMA1900</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>1.91</u>

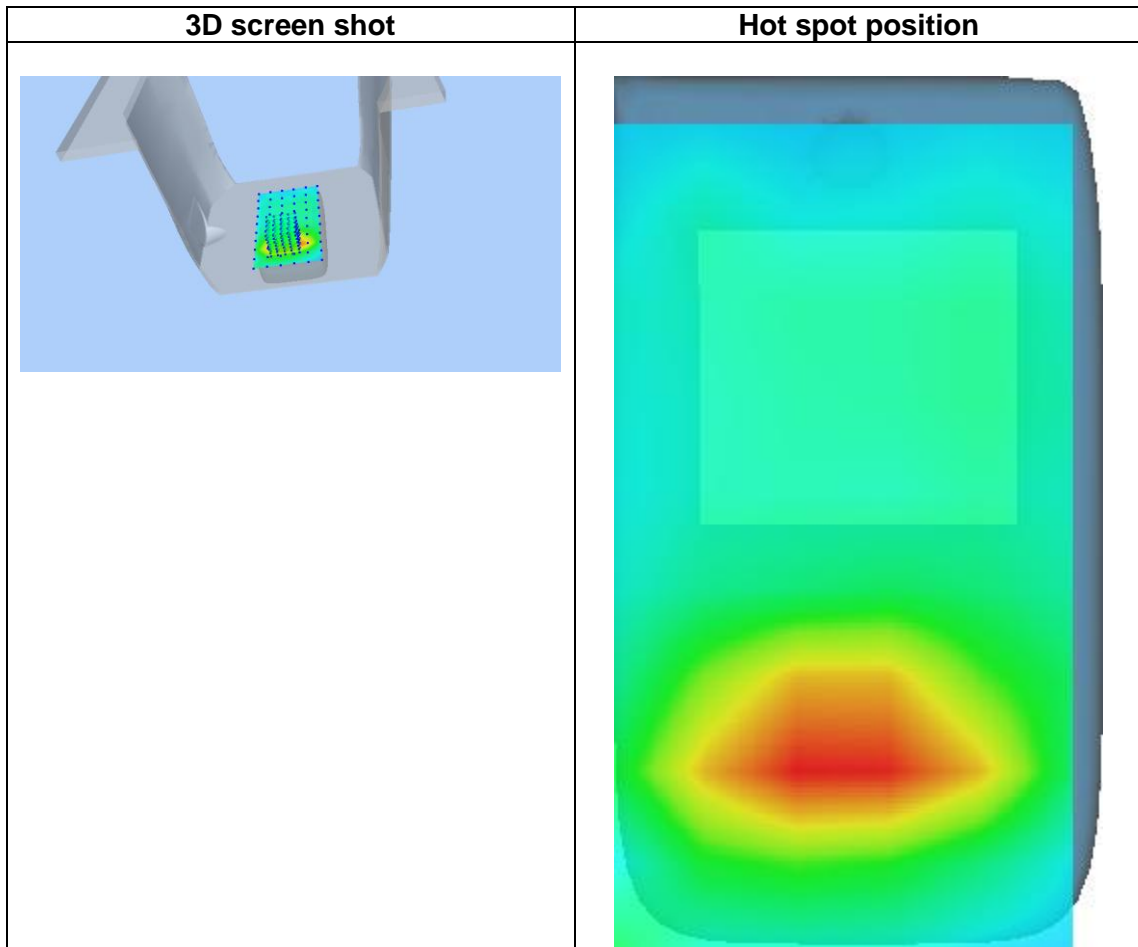
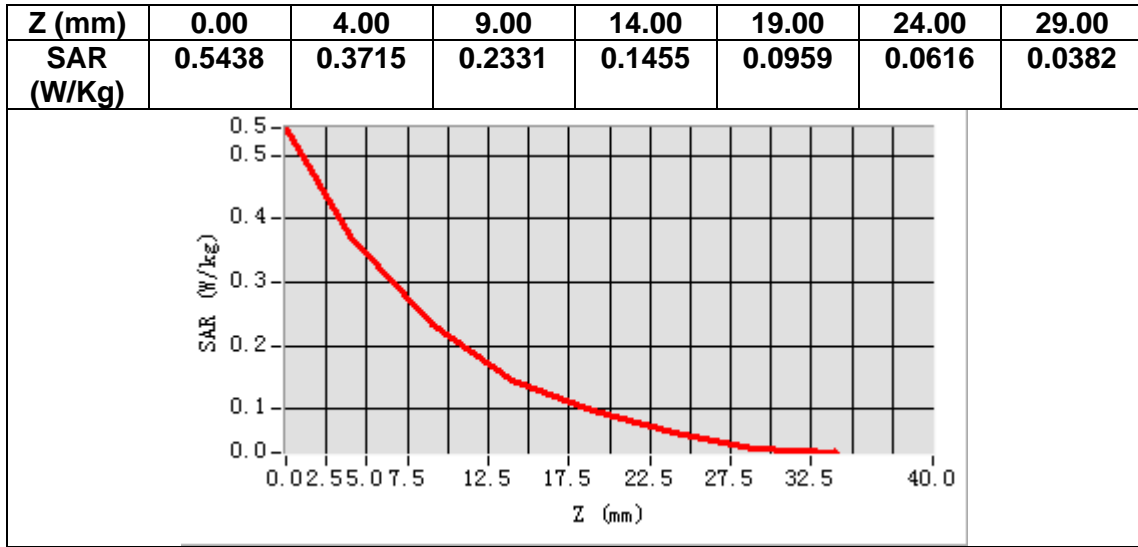
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-0.100000



Maximum location: X=-5.00, Y=-40.00
SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.203846
SAR 1g (W/Kg)	0.366507



MEASUREMENT 7

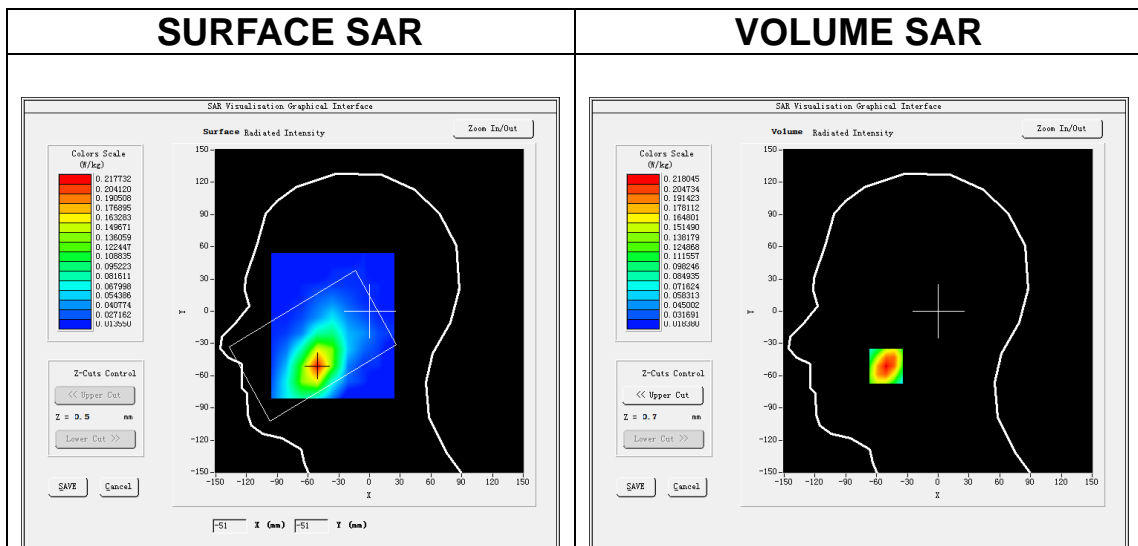
Date of measurement: 2/9/2022

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>

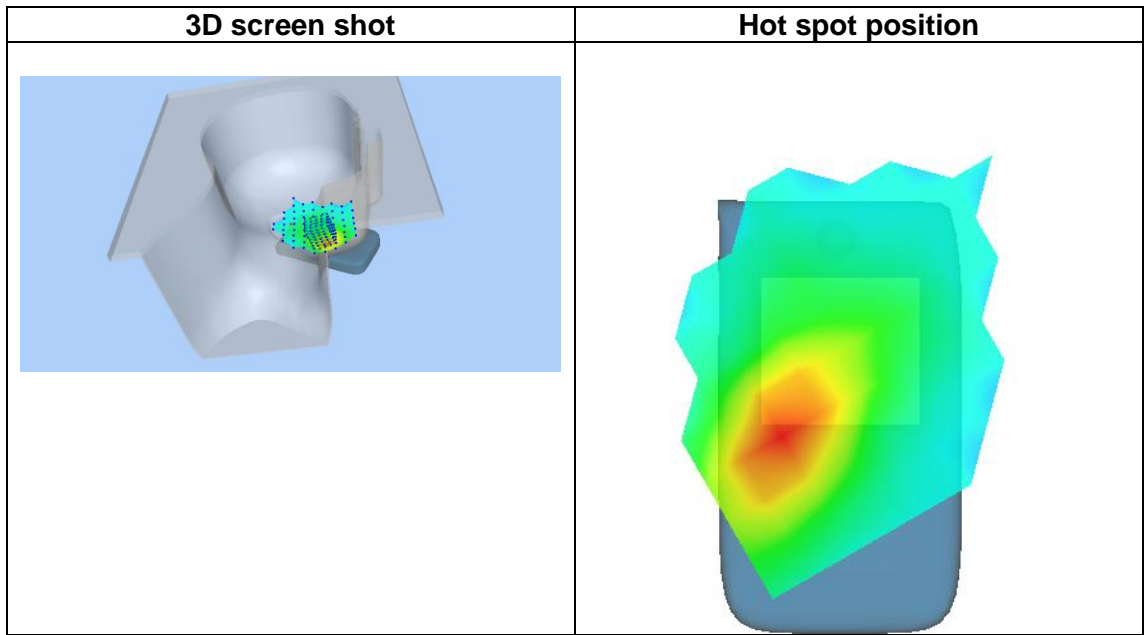
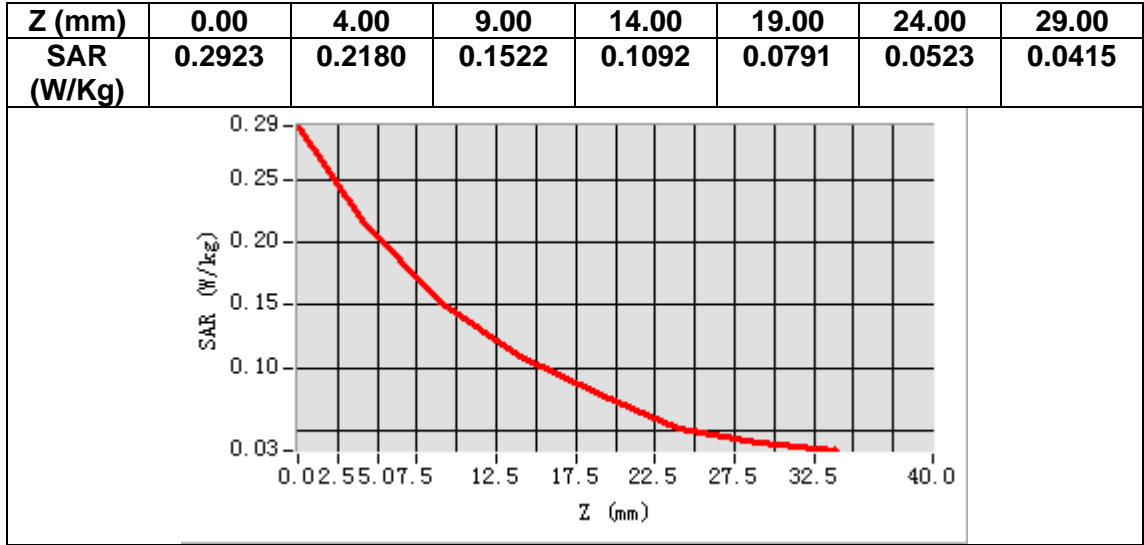
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.066978
Relative permittivity (imaginary part)	13.921899
Conductivity (S/m)	1.339596
Variation (%)	-4.360000



Maximum location: X=-51.00, Y=-51.00
SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.132205
SAR 1g (W/Kg)	0.208624



MEASUREMENT 8

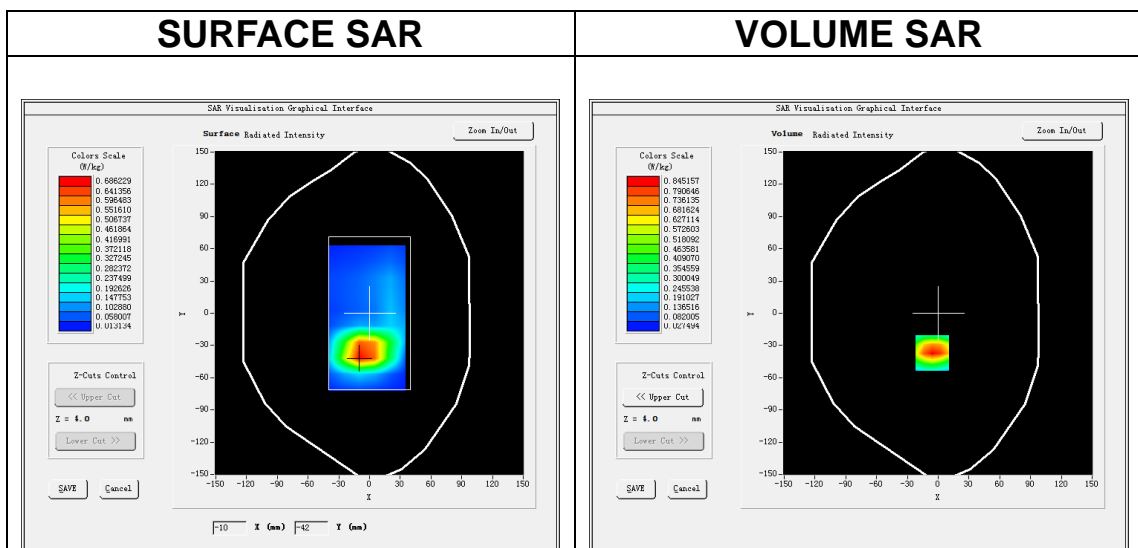
Date of measurement: 2/9/2022

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>

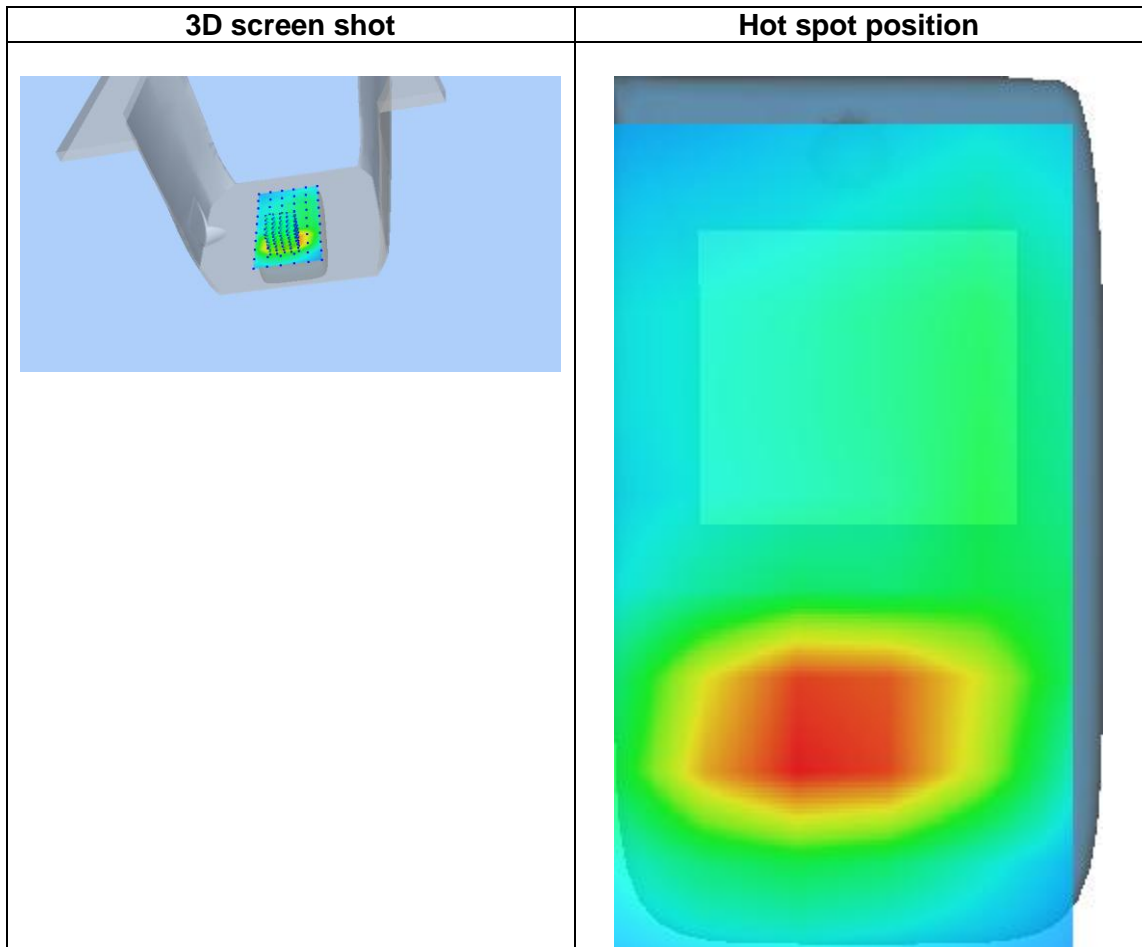
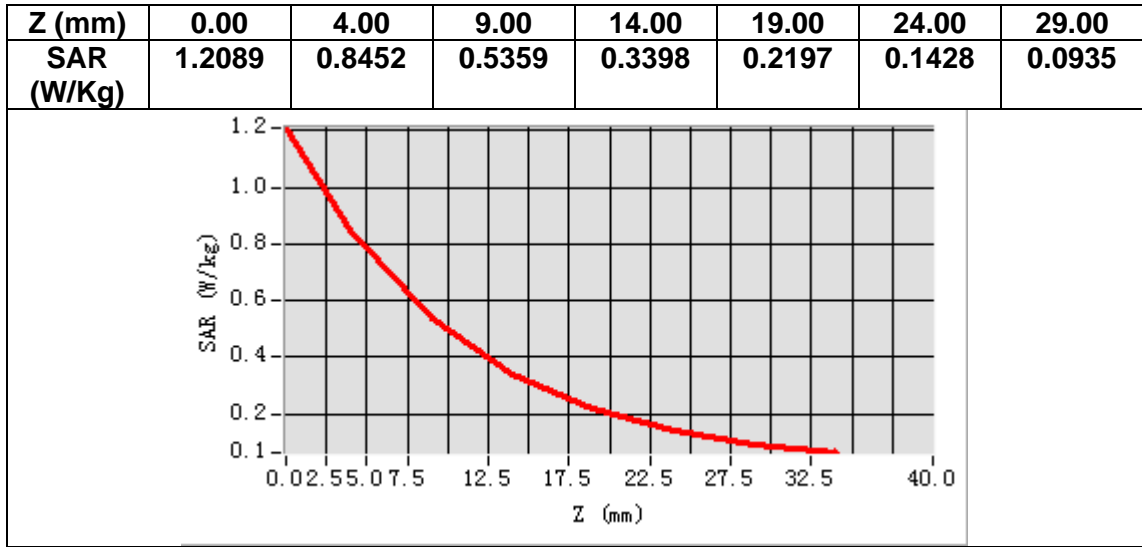
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.066978
Relative permittivity (imaginary part)	13.921899
Conductivity (S/m)	1.339596
Variation (%)	-1.930000



Maximum location: X=-6.00, Y=-37.00
SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	0.450609
SAR 1g (W/Kg)	0.799759



MEASUREMENT 9

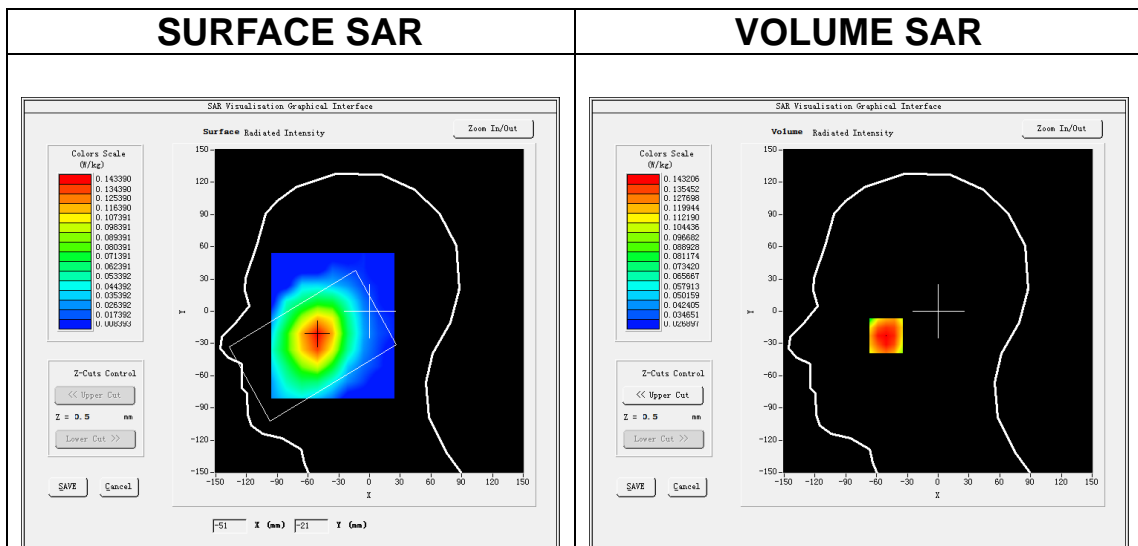
Date of measurement: 12/9/2022

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>

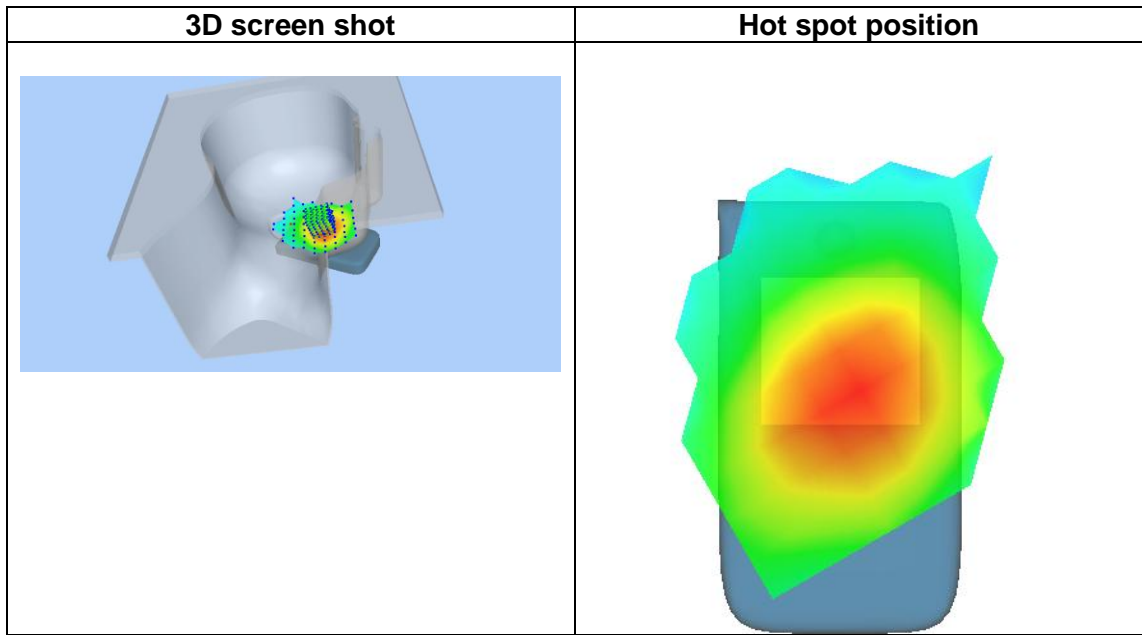
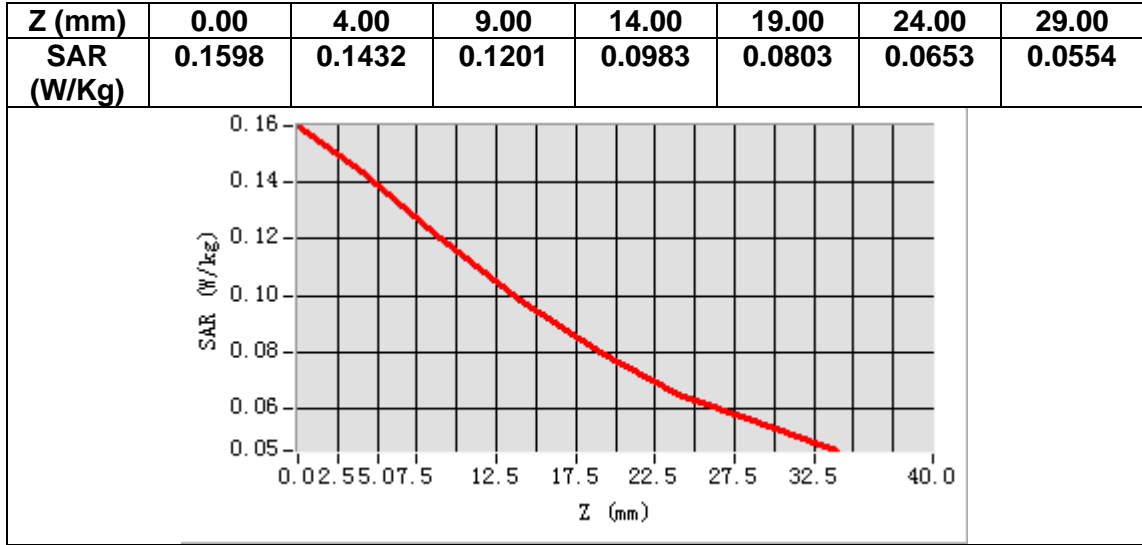
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	-1.100000



Maximum location: X=-51.00, Y=-23.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.110602
SAR 1g (W/Kg)	0.144062



MEASUREMENT 10

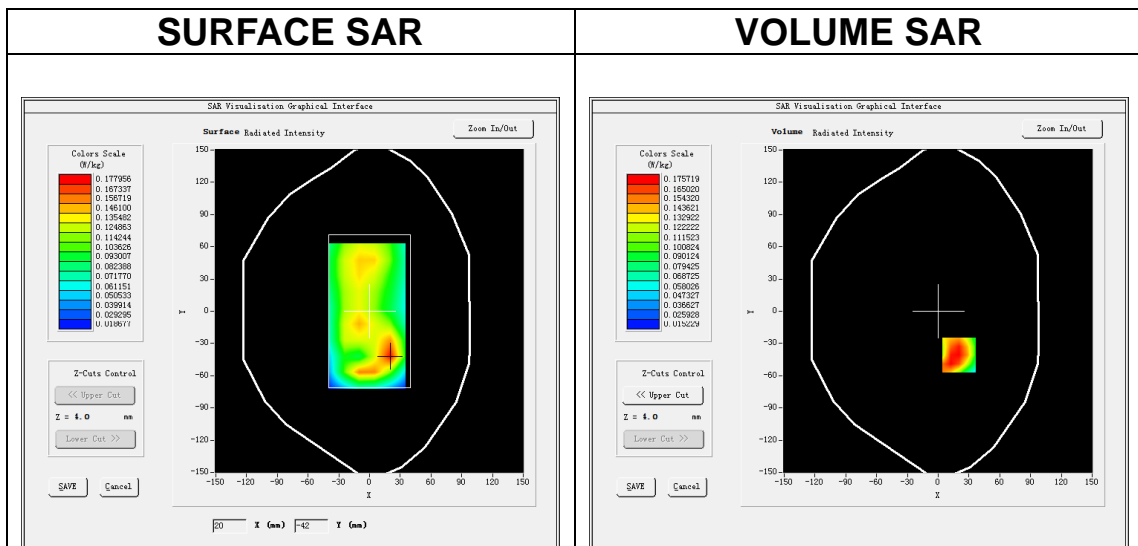
Date of measurement: 12/9/2022

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>

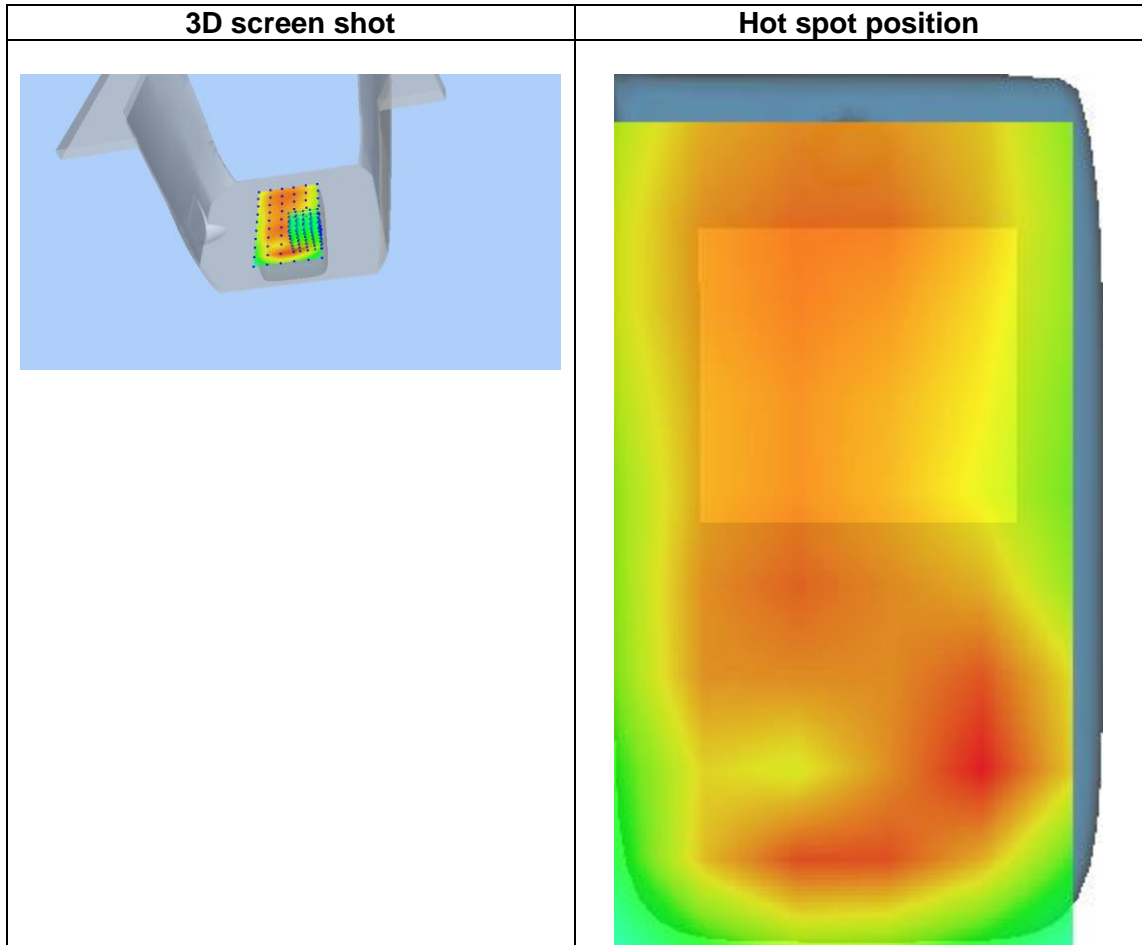
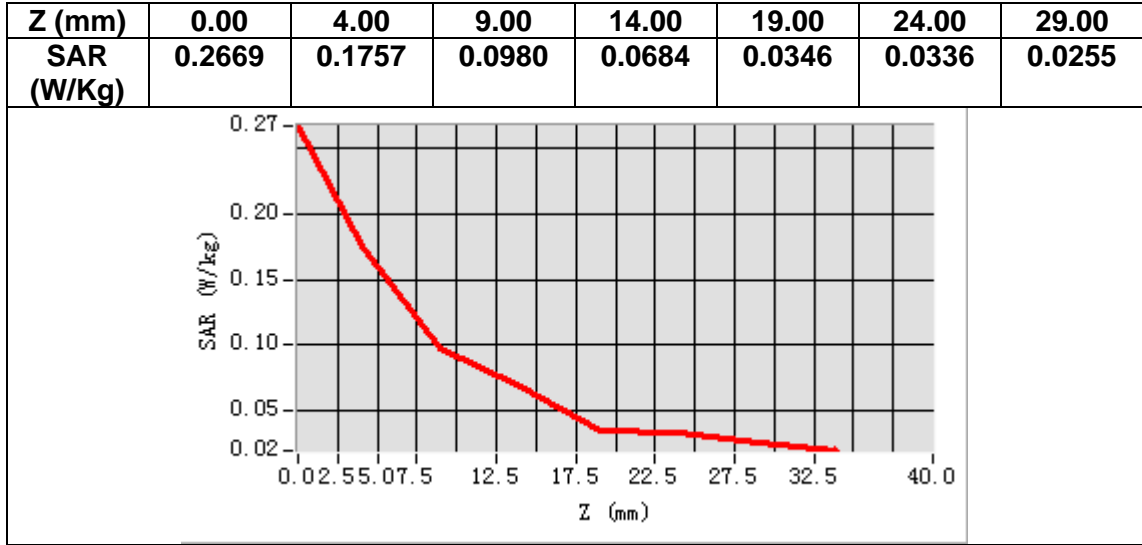
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	-1.140000



Maximum location: X=20.00, Y=-41.00
SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.105701
SAR 1g (W/Kg)	0.176647



MEASUREMENT 11

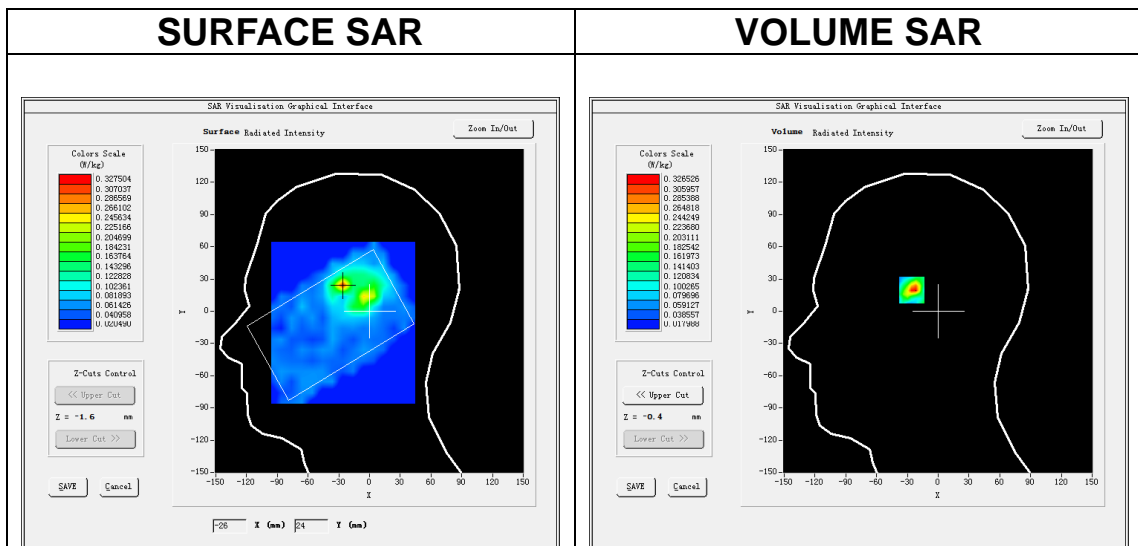
Date of measurement: 31/8/2022

A. Experimental conditions.

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

B. SAR Measurement Results

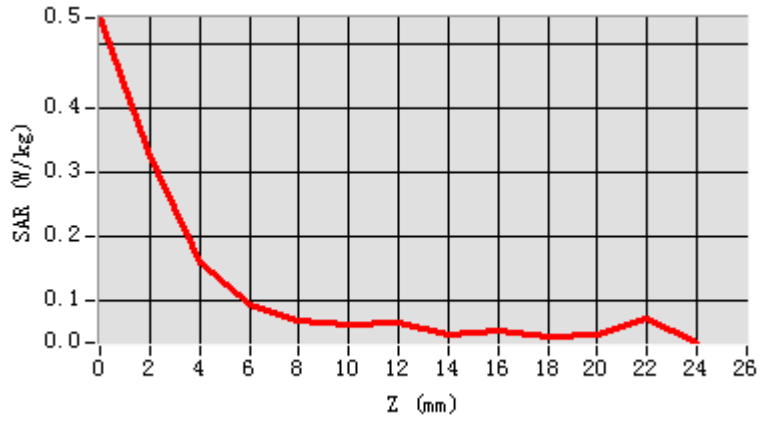
Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.362282
Relative permittivity (imaginary part)	15.654967
Conductivity (S/m)	4.522546
Variation (%)	-3.660000



Maximum location: X=-26.00, Y=24.00
SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.118183
SAR 1g (W/Kg)	0.296953

Z (m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/Kg)	0.5406	0.3265	0.1599	0.0943	0.0705	0.0632	0.0657	0.0486	0.0523	0.0457	0.0479	0.0724



3D screen shot	Hot spot position

MEASUREMENT 12

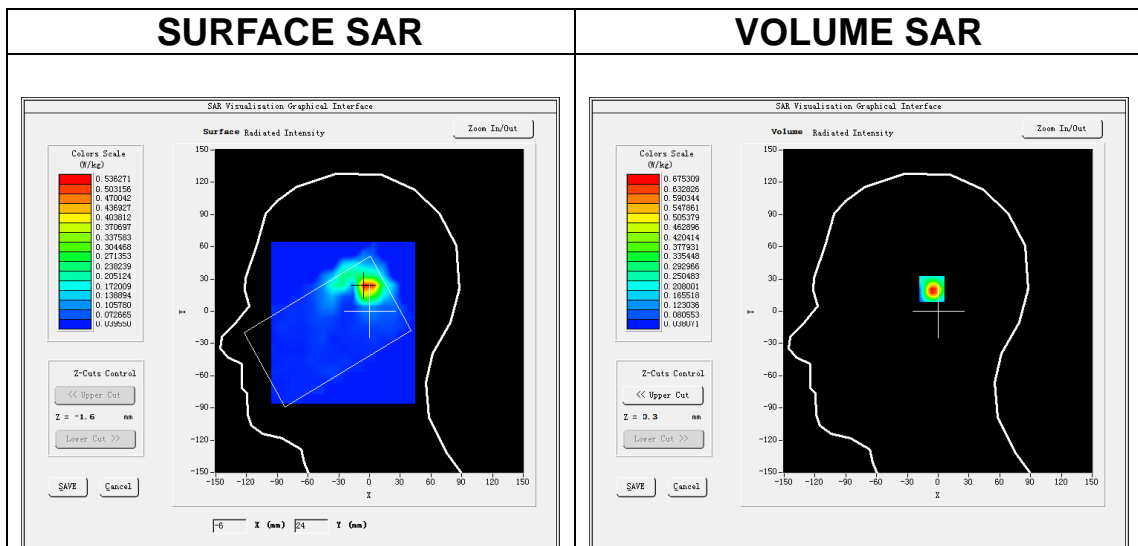
Date of measurement: 29/8/2022

A. Experimental conditions.

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

B. SAR Measurement Results

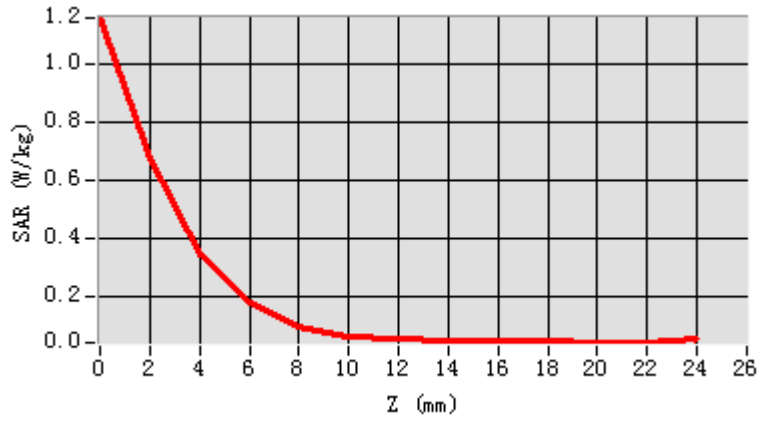
Frequency (MHz)	5825.000000
Relative permittivity (real part)	34.192329
Relative permittivity (imaginary part)	15.916957
Conductivity (S/m)	5.150904
Variation (%)	-1.480000



Maximum location: X=-3.00, Y=23.00
SAR Peak: 1.86 W/kg

SAR 10g (W/Kg)	0.220147
SAR 1g (W/Kg)	0.656310

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	1.15	0.67	0.34	0.18	0.09	0.06	0.05	0.04	0.04	0.04	0.04	0.04
	81	53	55	21	76	38	83	90	72	69	22	25



3D screen shot	Hot spot position

MEASUREMENT 13

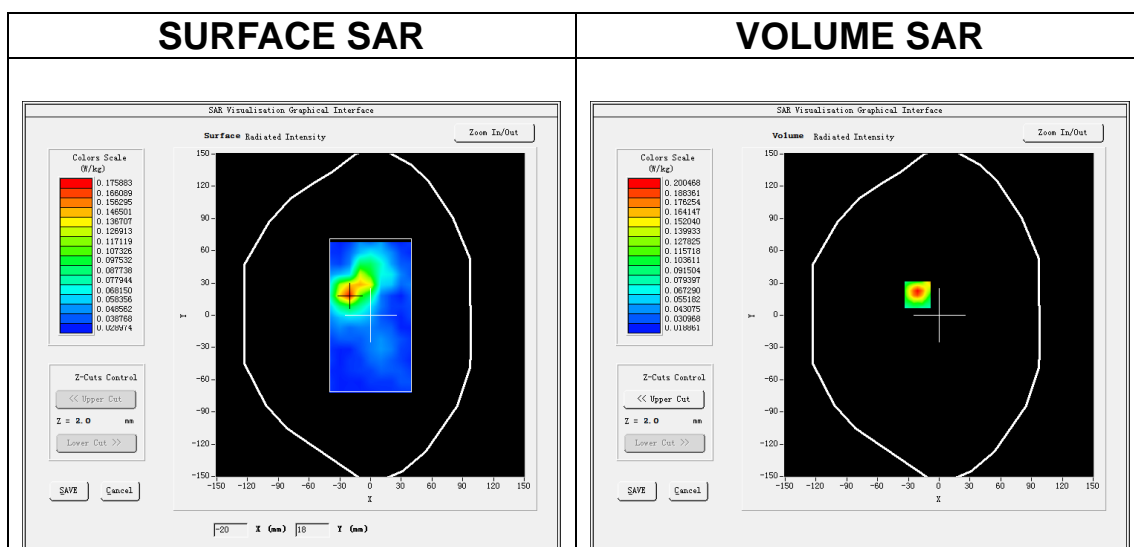
Date of measurement: 31/8/2022

A. Experimental conditions.

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

B. SAR Measurement Results

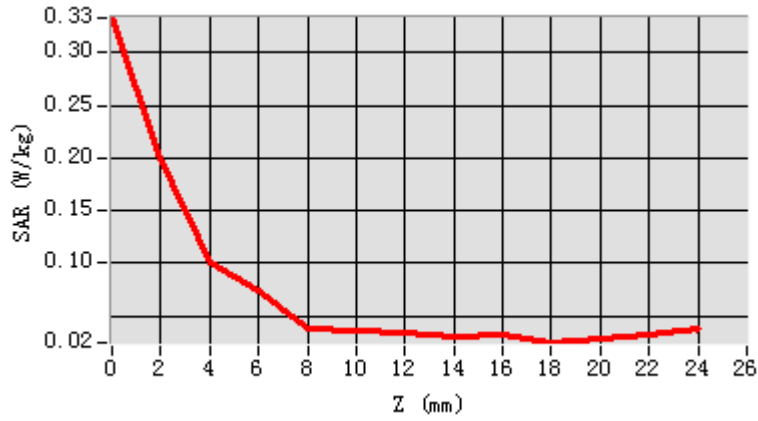
Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.362282
Relative permittivity (imaginary part)	15.654967
Conductivity (S/m)	4.522546
Variation (%)	-2.240000



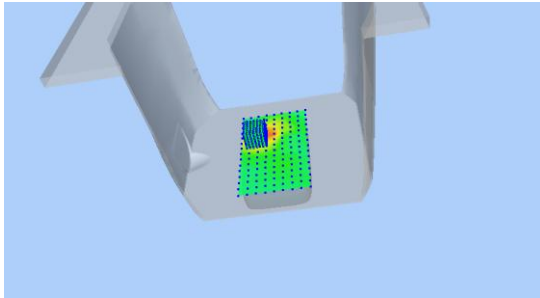
Maximum location: X=-21.00, Y=19.00
SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.063749
SAR 1g (W/Kg)	0.121991

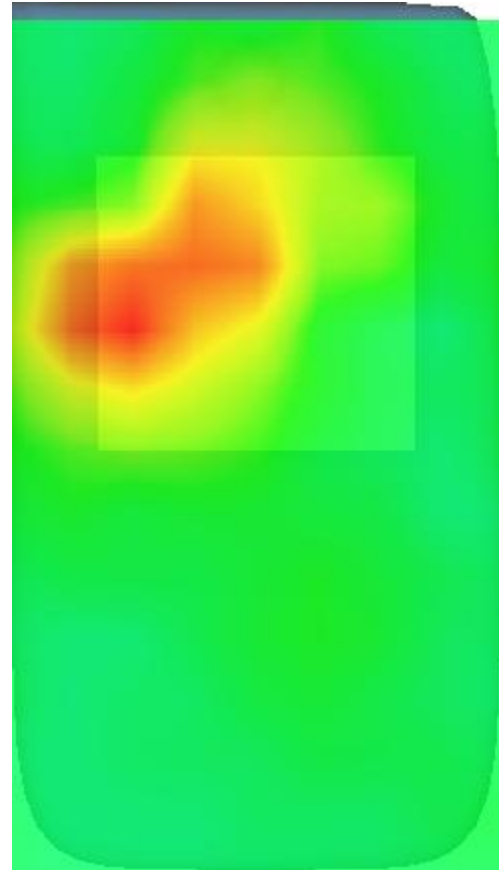
Z (m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/Kg)	0.3329	0.2005	0.1006	0.0737	0.0380	0.0364	0.0341	0.0302	0.0322	0.0246	0.0284	0.0323



3D screen shot



Hot spot position



MEASUREMENT 14

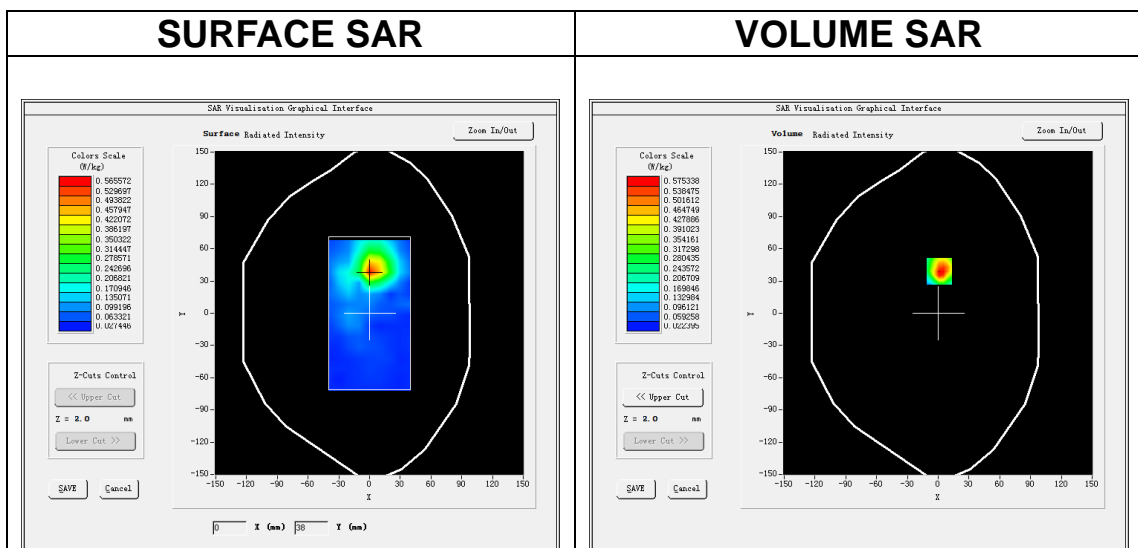
Date of measurement: 29/8/2022

A. Experimental conditions.

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

B. SAR Measurement Results

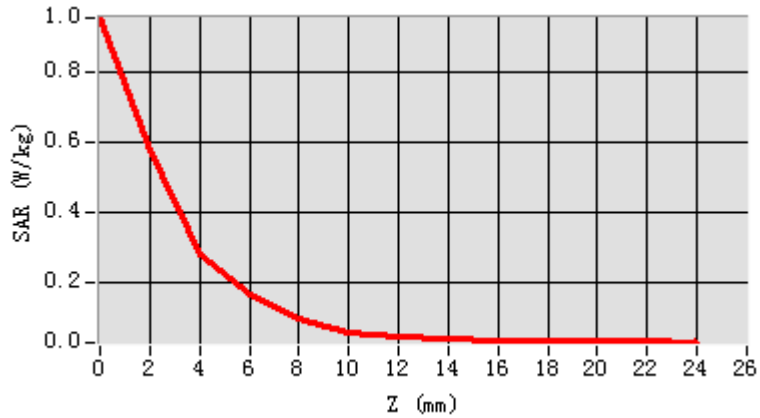
Frequency (MHz)	5825.000000
Relative permittivity (real part)	34.192329
Relative permittivity (imaginary part)	15.916957
Conductivity (S/m)	5.150904
Variation (%)	-0.170000



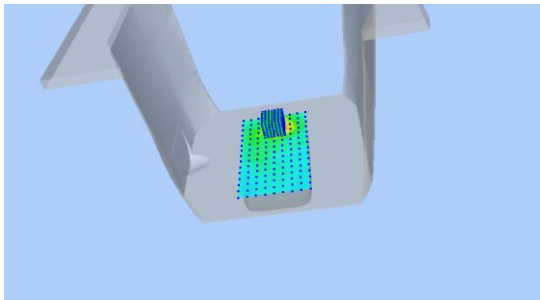
Maximum location: X=1.00, Y=39.00
SAR Peak: 1.04 W/kg

SAR 10g (W/Kg)	0.143210
SAR 1g (W/Kg)	0.343180

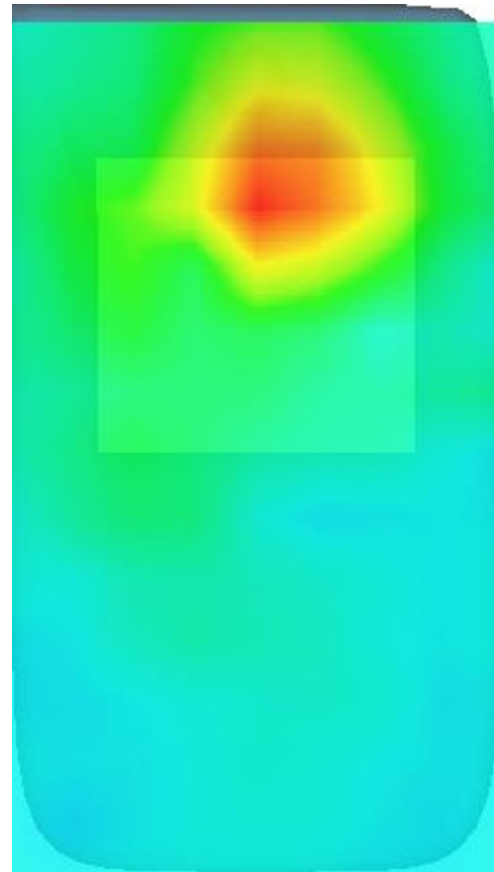
Z (m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/Kg)	0.9556	0.5753	0.2764	0.1668	0.0987	0.0575	0.0443	0.0371	0.0333	0.0331	0.0332	0.0356



3D screen shot



Hot spot position



MEASUREMENT 15

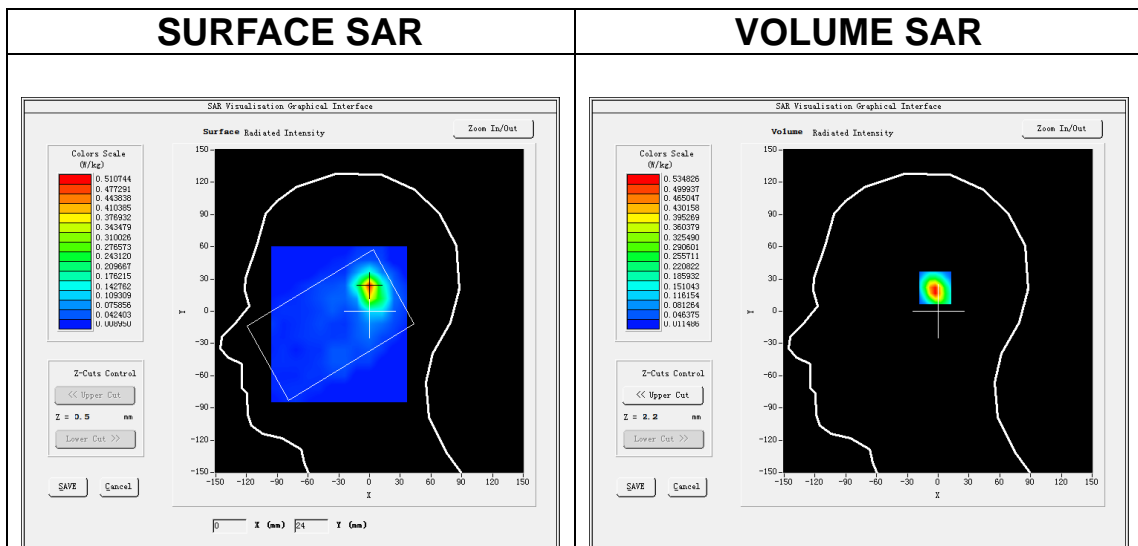
Date of measurement: 7/9/2022

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>High</u>
Signal	<u>IEEE802.11b (Crest factor: 1.0)</u>
ConvF	<u>1.98</u>

B. SAR Measurement Results

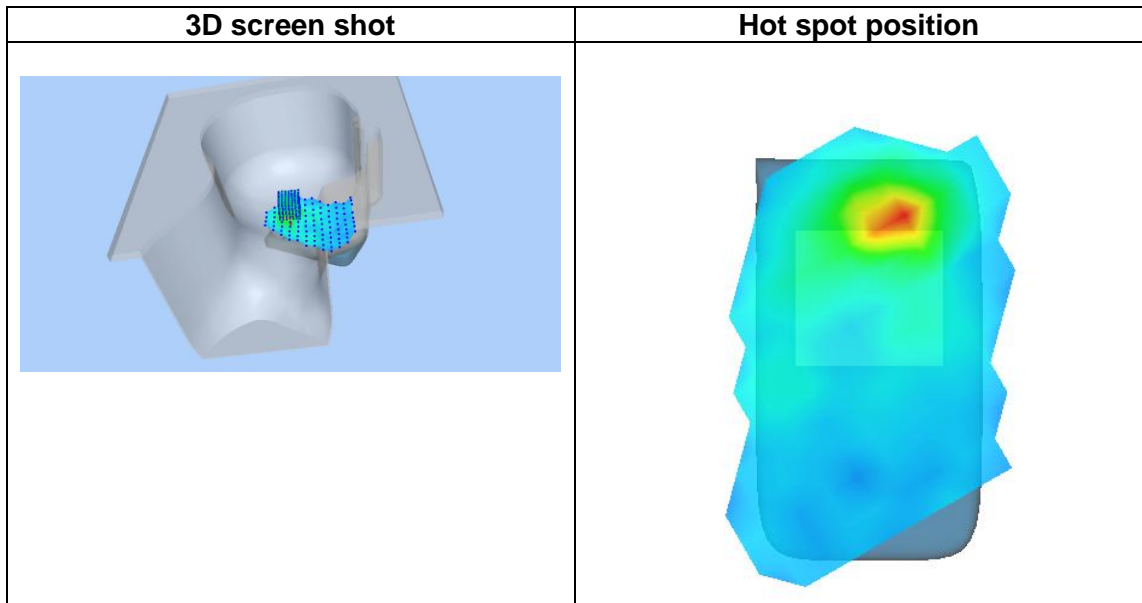
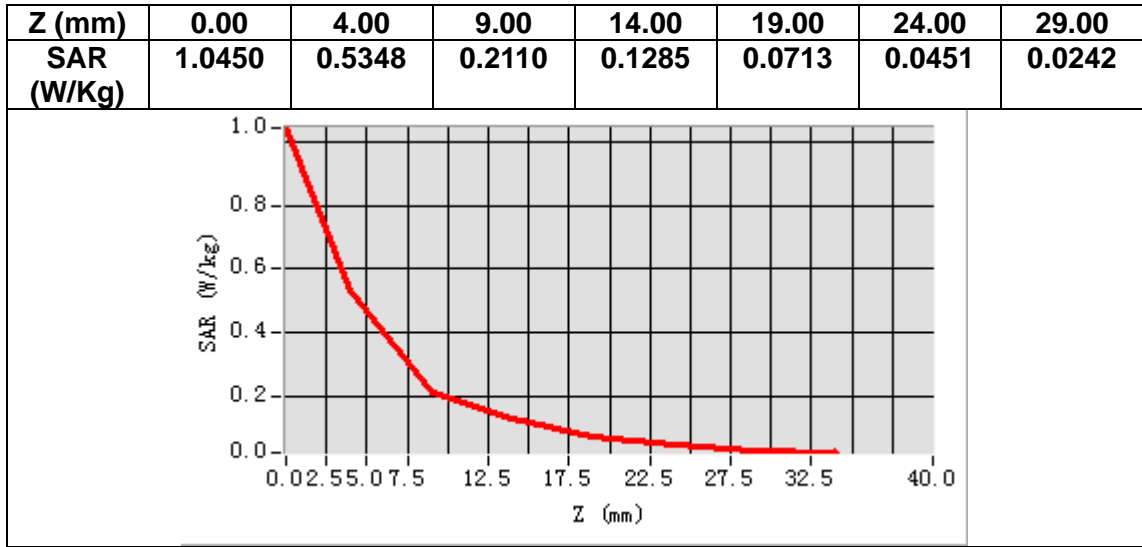
Frequency (MHz)	2462.000000
Relative permittivity (real part)	37.900835
Relative permittivity (imaginary part)	13.211403
Conductivity (S/m)	1.807026
Variation (%)	-3.550000



Maximum location: X=0.00, Y=23.00

SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.206649
SAR 1g (W/Kg)	0.479737



MEASUREMENT 16

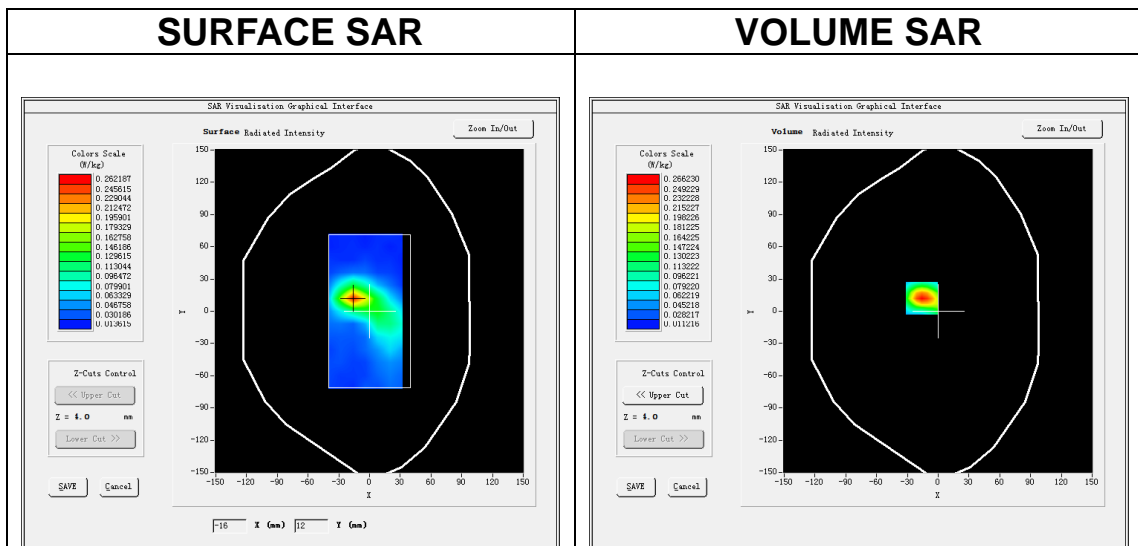
Date of measurement: 7/9/2022

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>High</u>
Signal	<u>IEEE802.11b (Crest factor: 1.0)</u>
ConvF	<u>1.98</u>

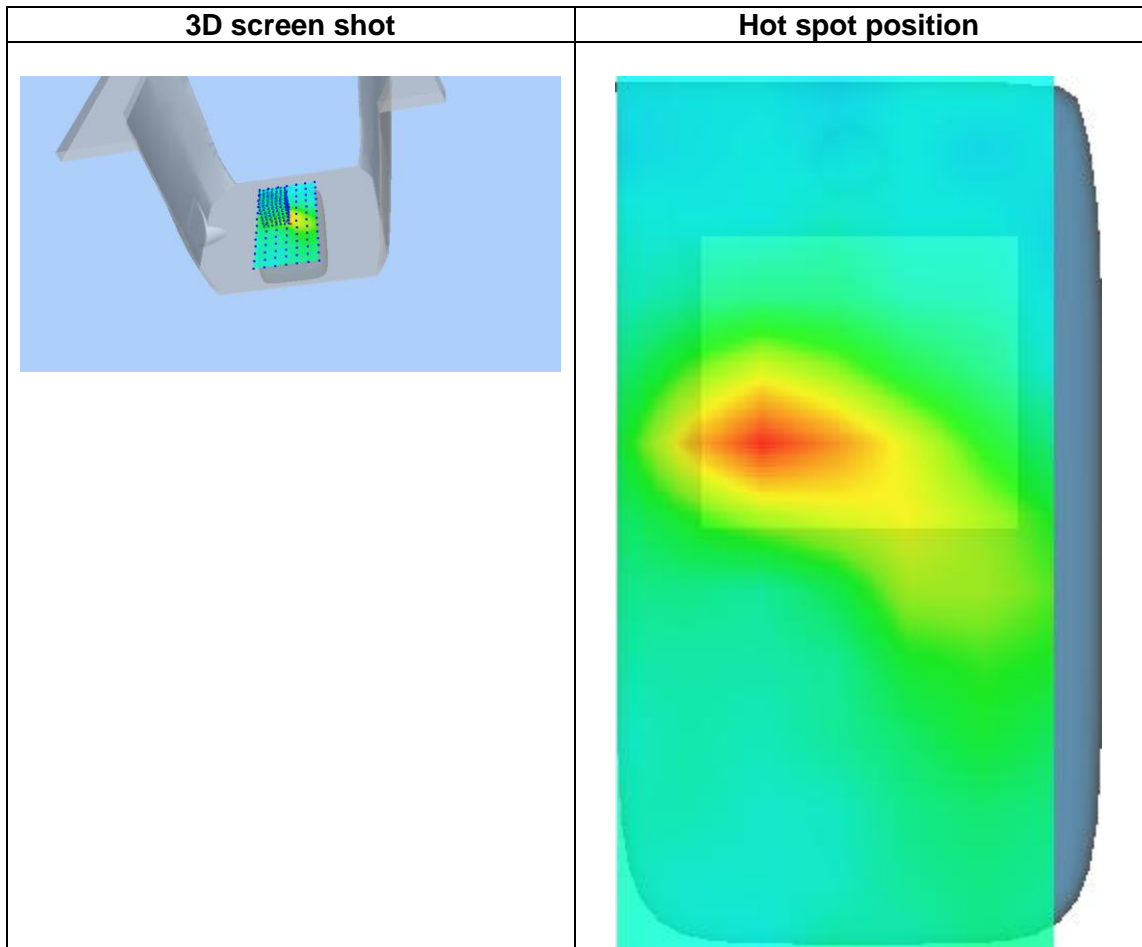
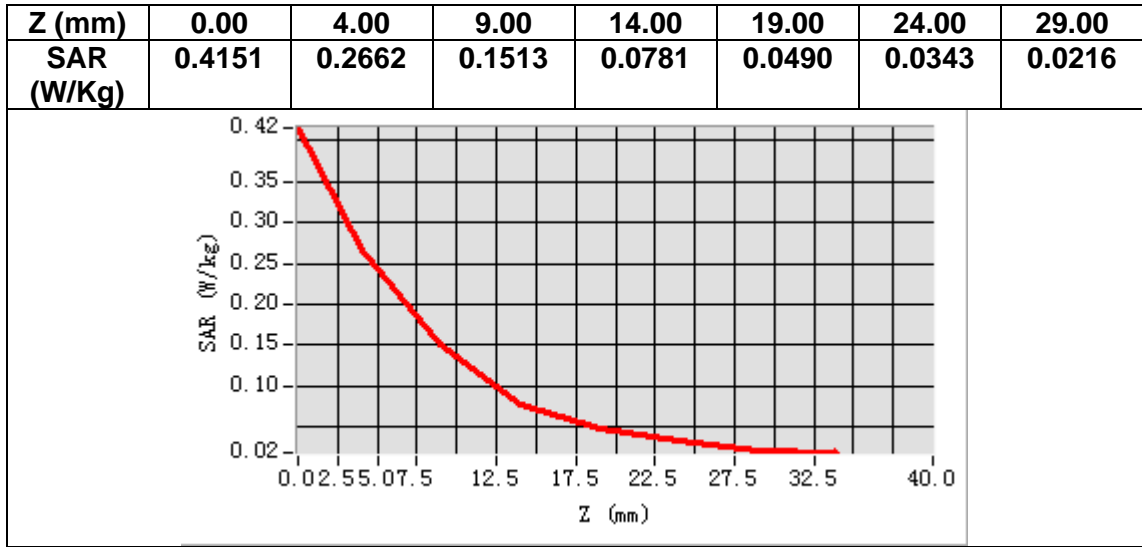
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	37.900835
Relative permittivity (imaginary part)	13.211403
Conductivity (S/m)	1.807026
Variation (%)	-4.040000



Maximum location: X=-16.00, Y=12.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.119289
SAR 1g (W/Kg)	0.239764



MEASUREMENT 17

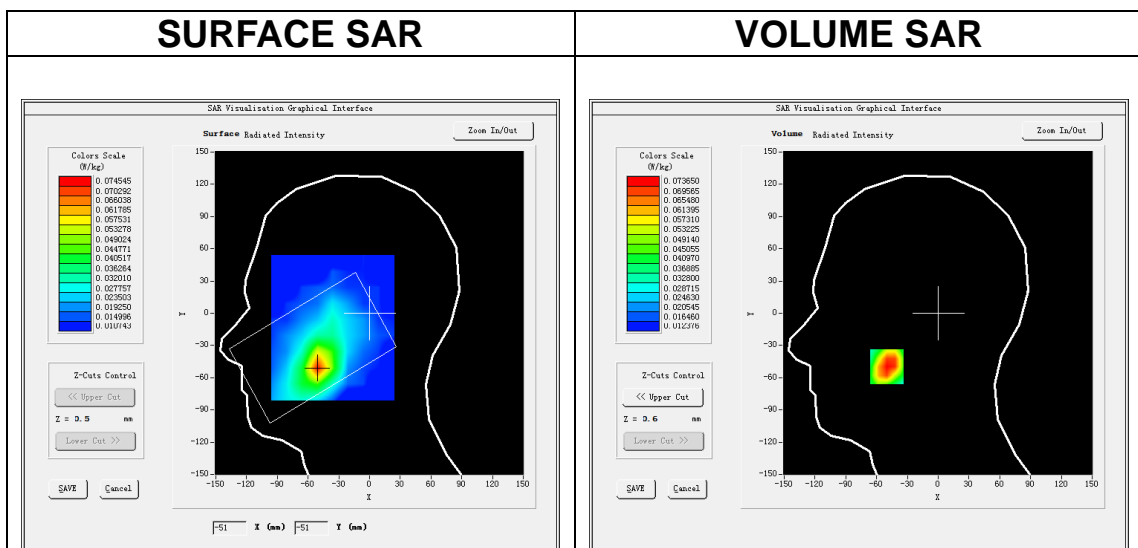
Date of measurement: 14/9/2022

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 2</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.91</u>

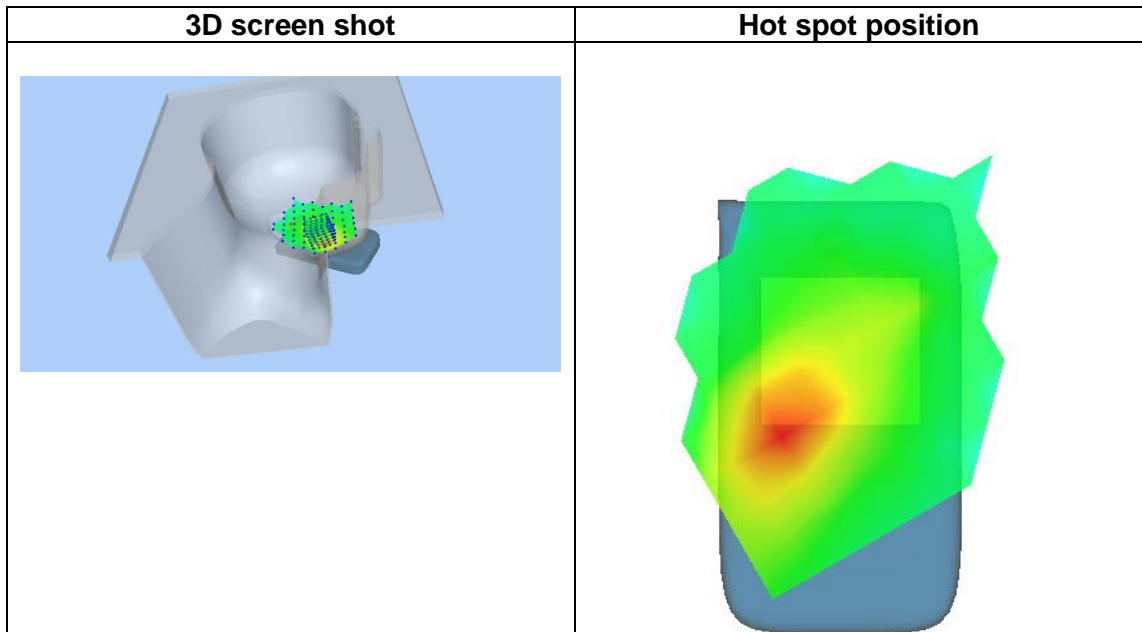
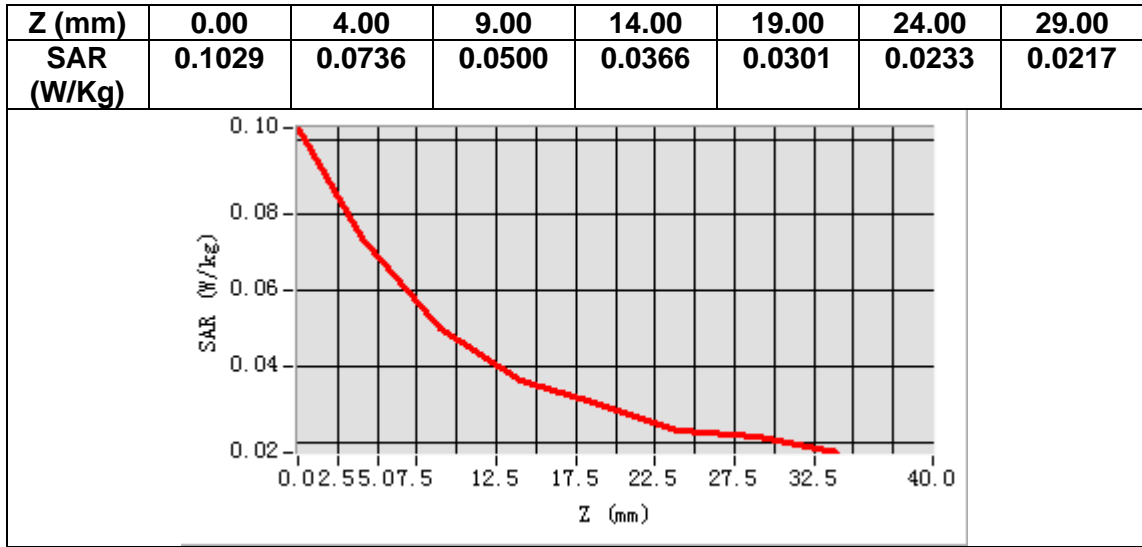
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	3.420000



Maximum location: X=-50.00, Y=-50.00
SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.046731
SAR 1g (W/Kg)	0.075051



MEASUREMENT 18

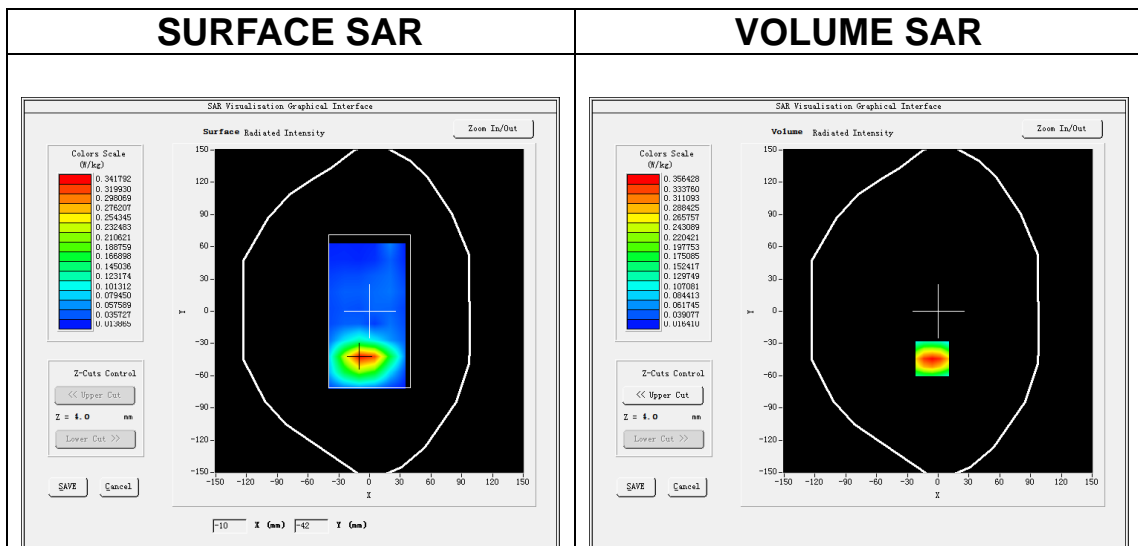
Date of measurement: 14/9/2022

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 2</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.91</u>

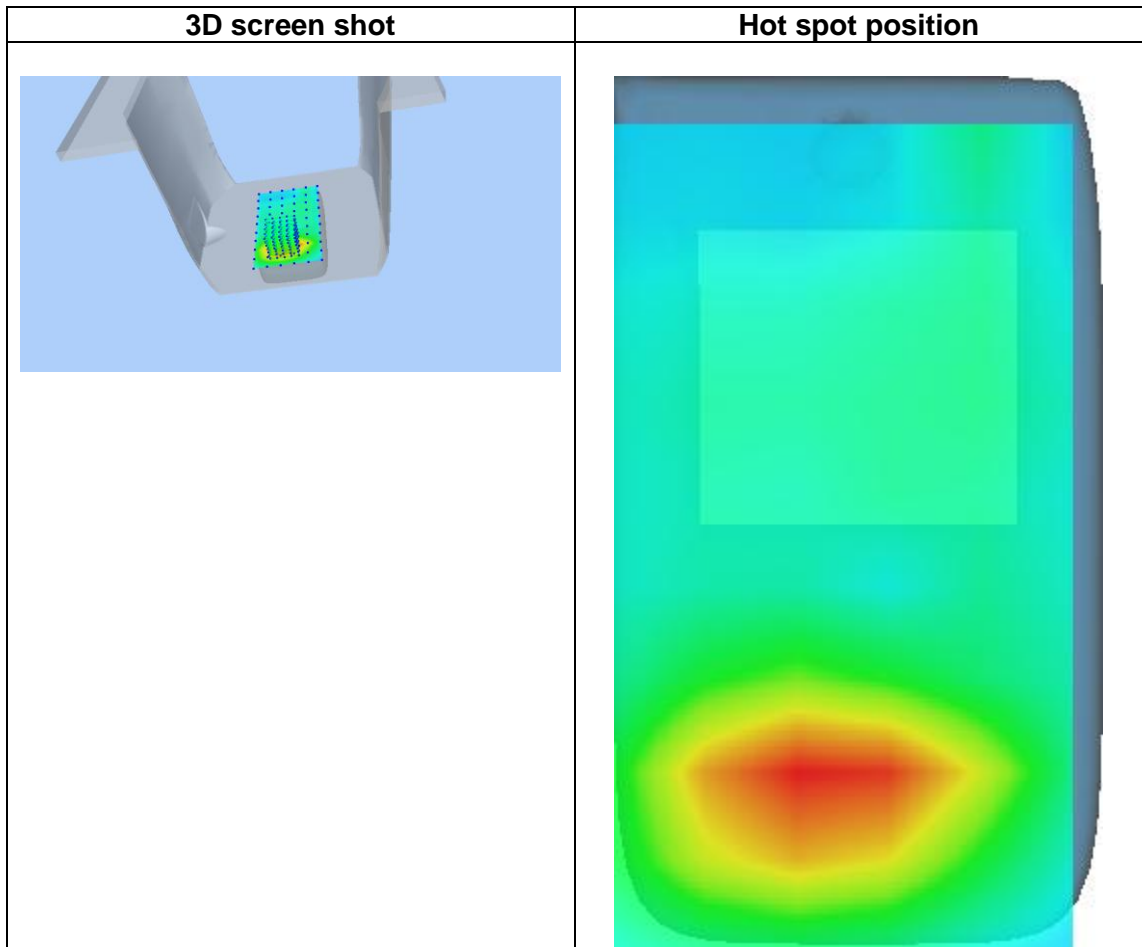
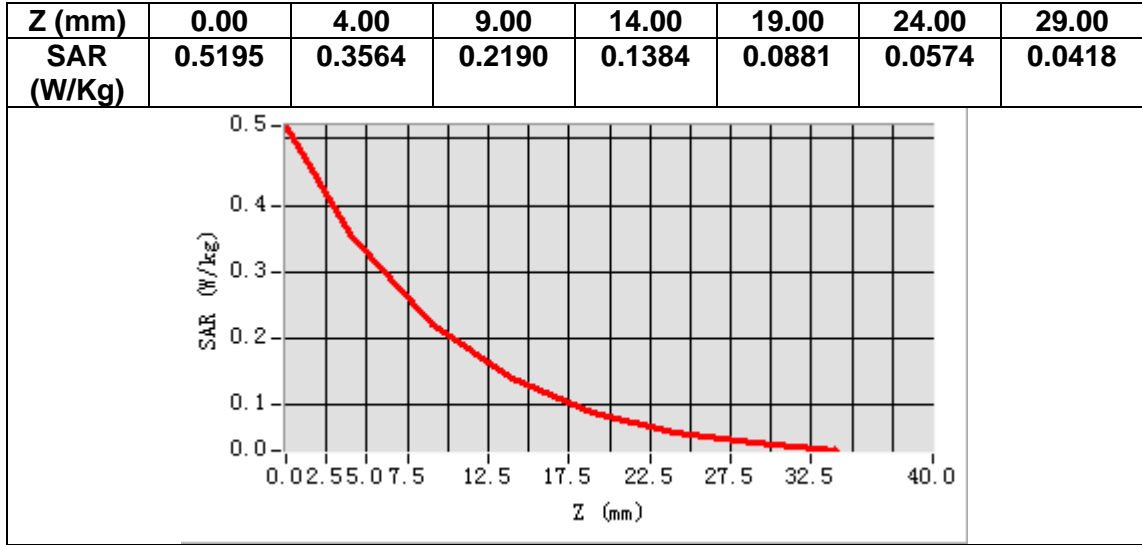
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-1.220000



Maximum location: X=-6.00, Y=-44.00
SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.194639
SAR 1g (W/Kg)	0.347365



MEASUREMENT 19

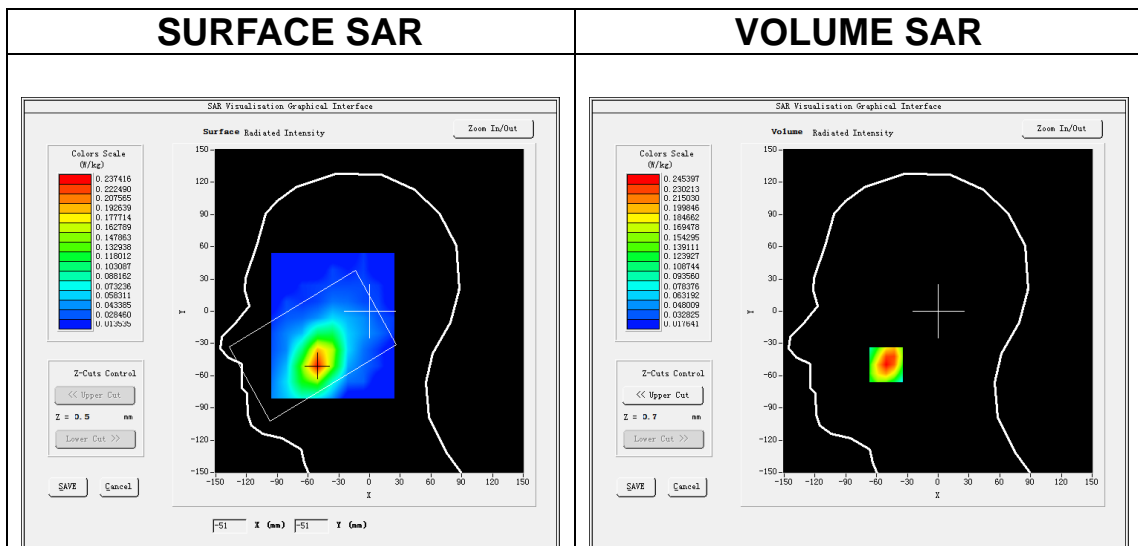
Date of measurement: 2/9/2022

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>

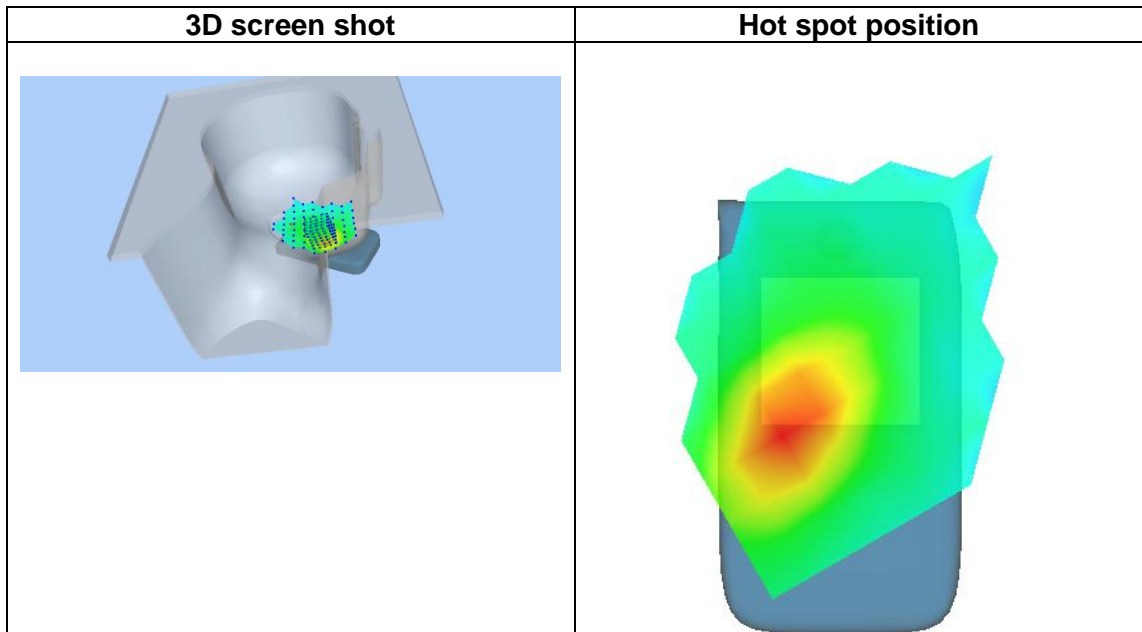
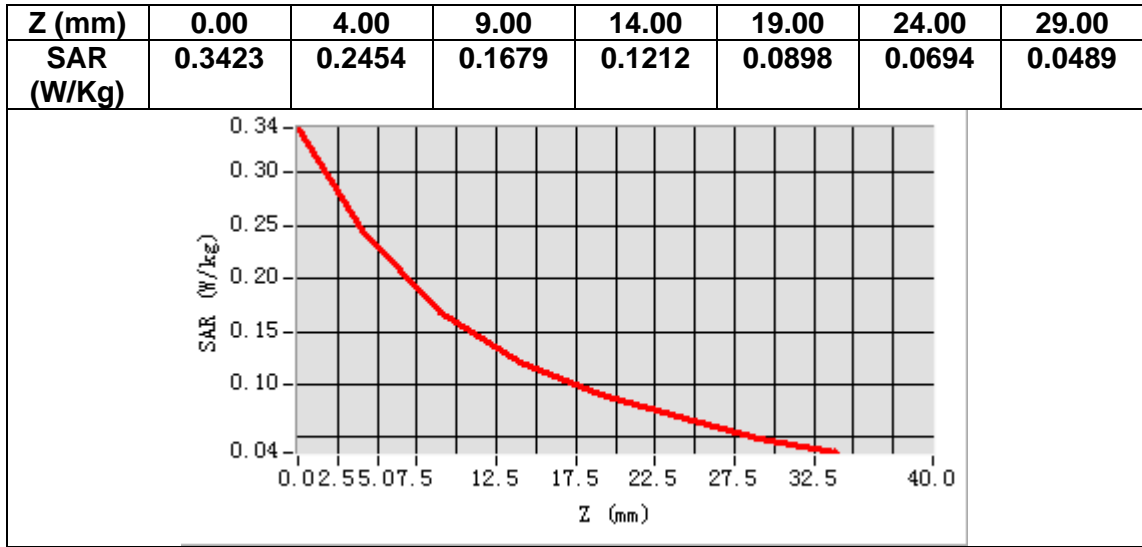
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.074879
Relative permittivity (imaginary part)	13.906749
Conductivity (S/m)	1.338525
Variation (%)	1.850000



Maximum location: X=-51.00, Y=-50.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.149753
SAR 1g (W/Kg)	0.236168



MEASUREMENT 20

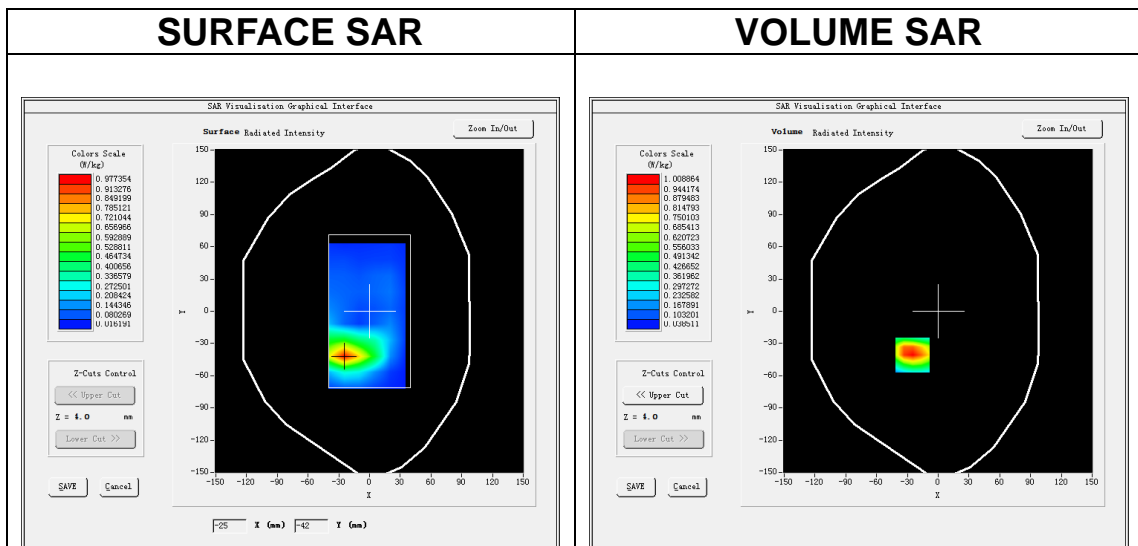
Date of measurement: 2/9/2022

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>Low</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.73</u>

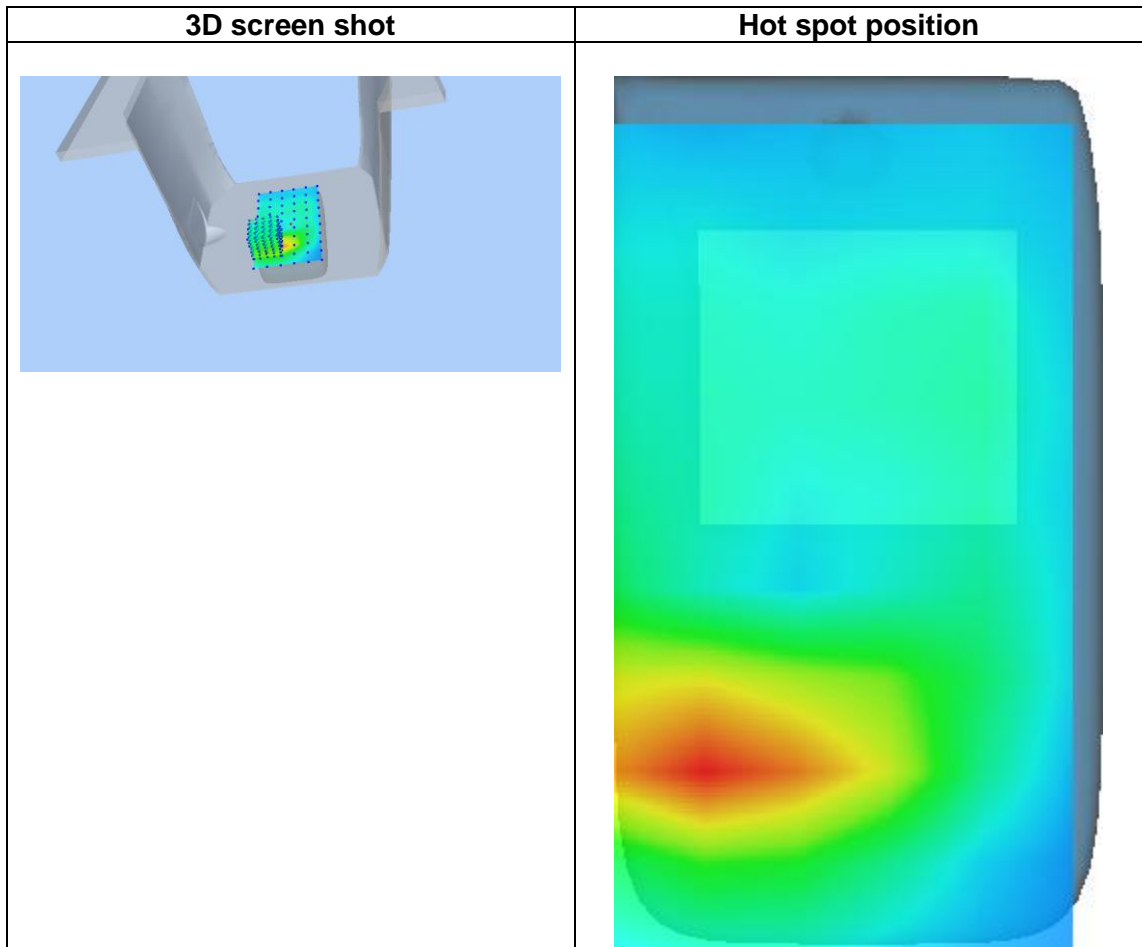
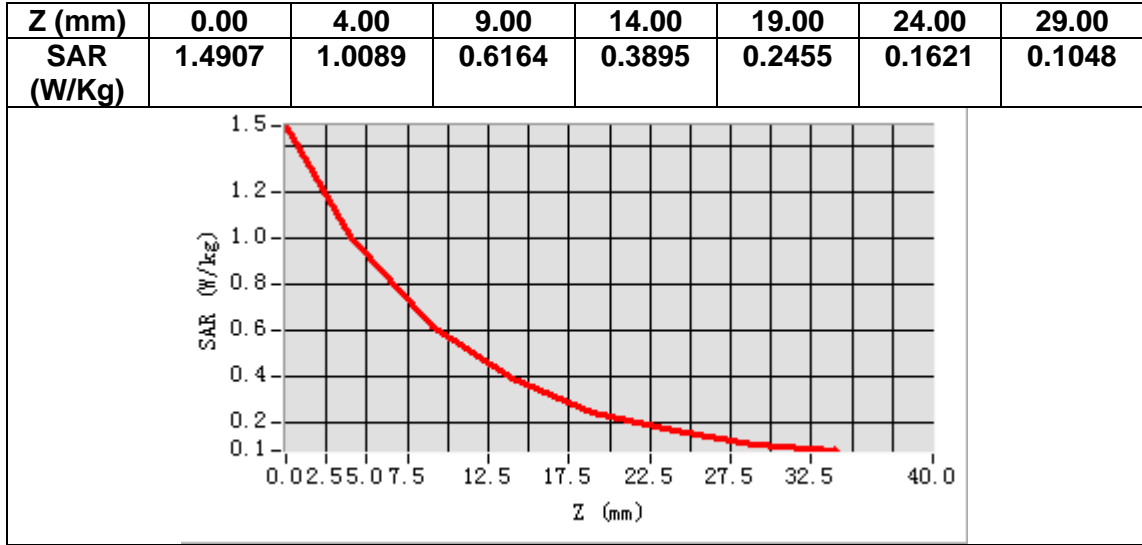
B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative permittivity (real part)	39.197277
Relative permittivity (imaginary part)	13.897399
Conductivity (S/m)	1.327974
Variation (%)	-1.710000



Maximum location: X=-25.00, Y=-41.00
SAR Peak: 1.61 W/kg

SAR 10g (W/Kg)	0.525844
SAR 1g (W/Kg)	0.910092



MEASUREMENT 21

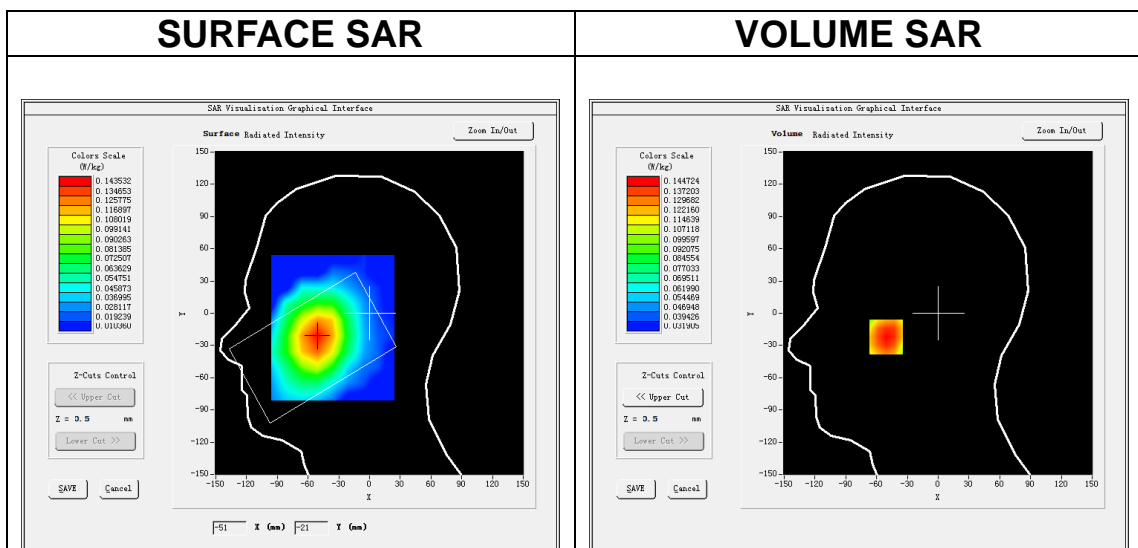
Date of measurement: 12/9/2022

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>

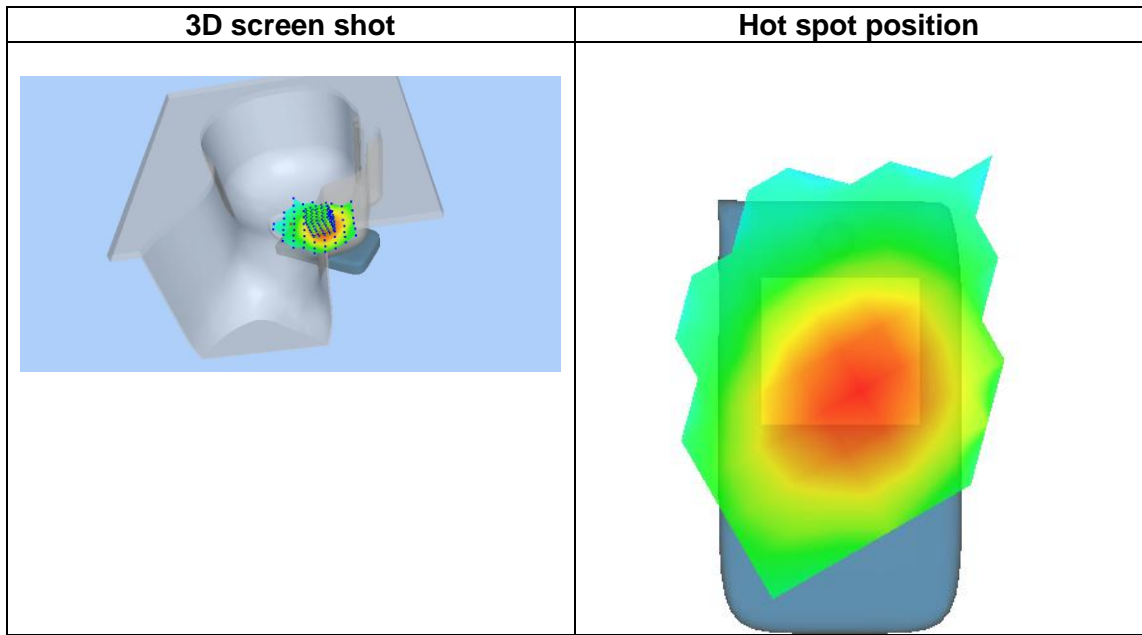
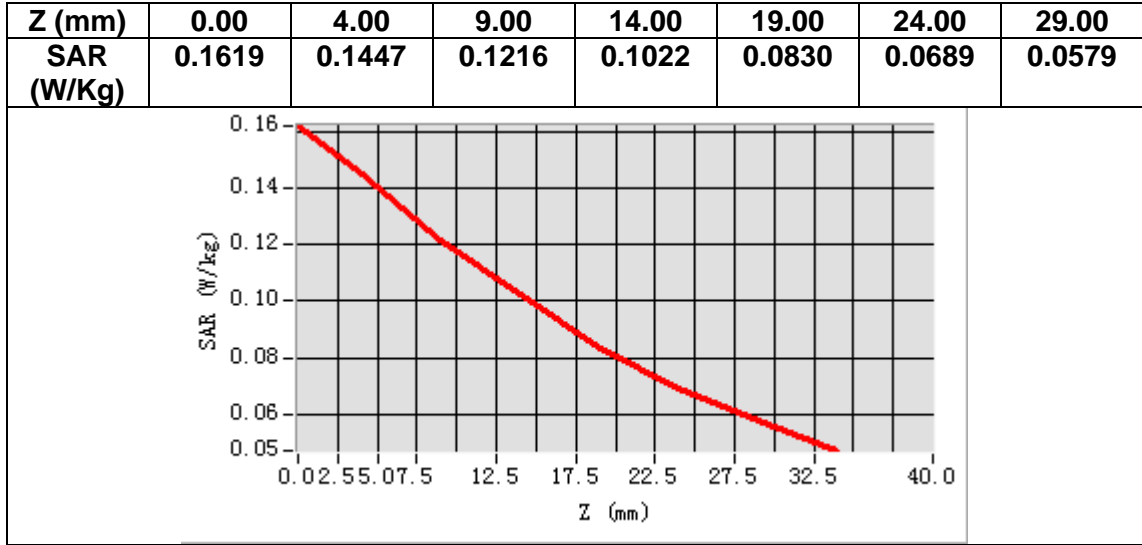
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.421921
Relative permittivity (imaginary part)	20.068506
Conductivity (S/m)	0.932628
Variation (%)	1.050000



Maximum location: X=-51.00, Y=-22.00
SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.112556
SAR 1g (W/Kg)	0.143213



MEASUREMENT 22

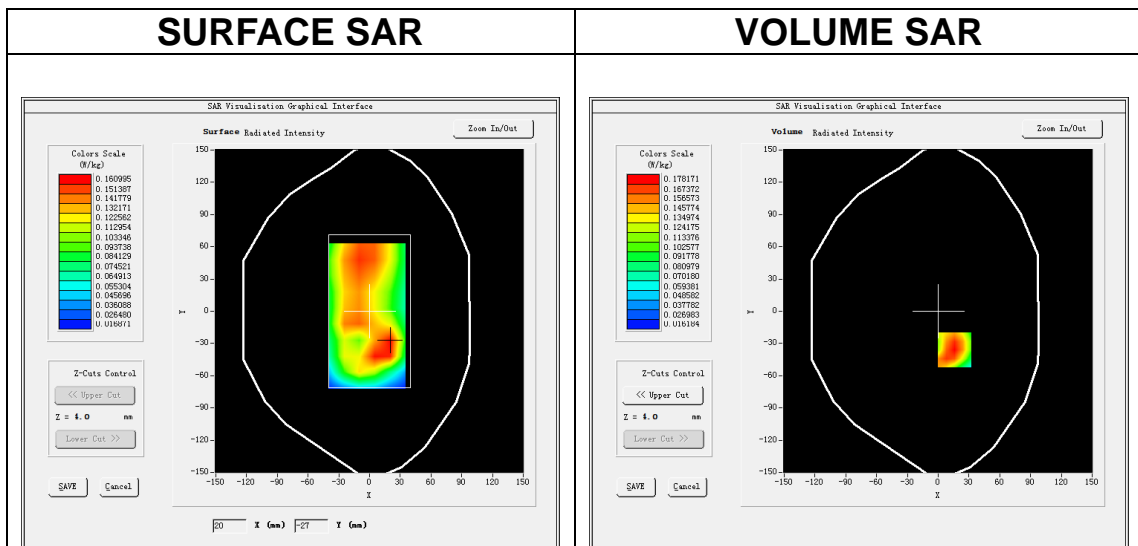
Date of measurement: 12/9/2022

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>

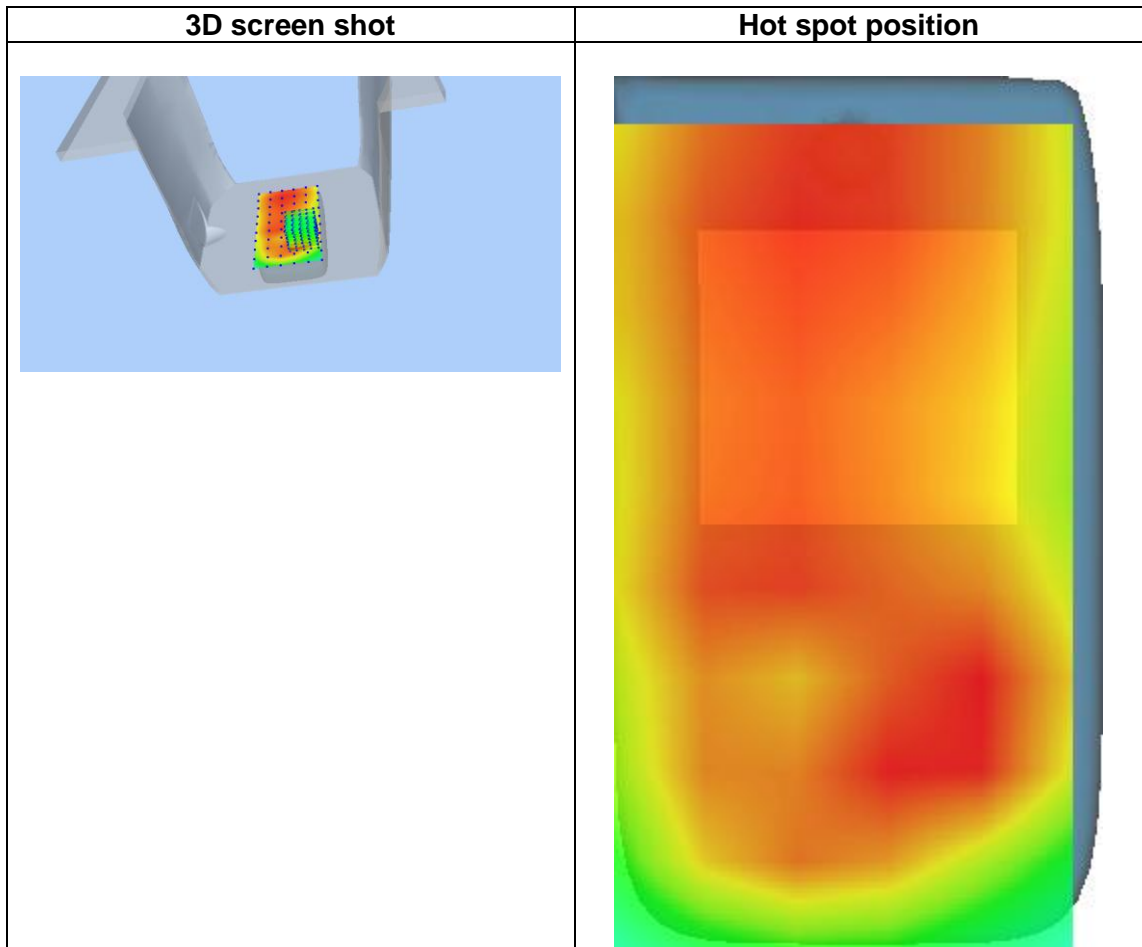
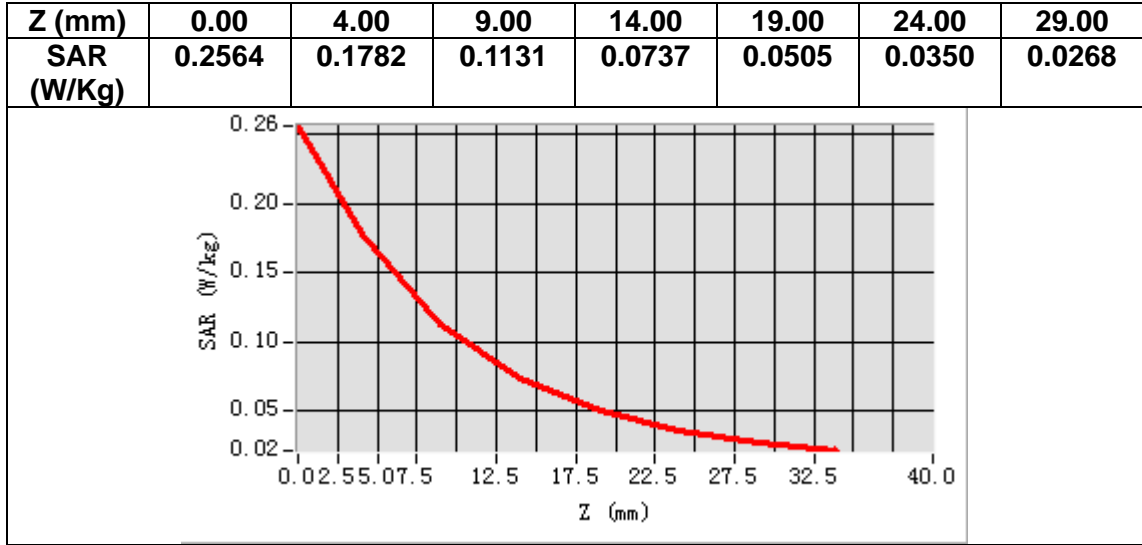
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.421921
Relative permittivity (imaginary part)	20.068506
Conductivity (S/m)	0.932628
Variation (%)	0.840000



Maximum location: X=16.00, Y=-36.00
SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.106833
SAR 1g (W/Kg)	0.175020



MEASUREMENT 23

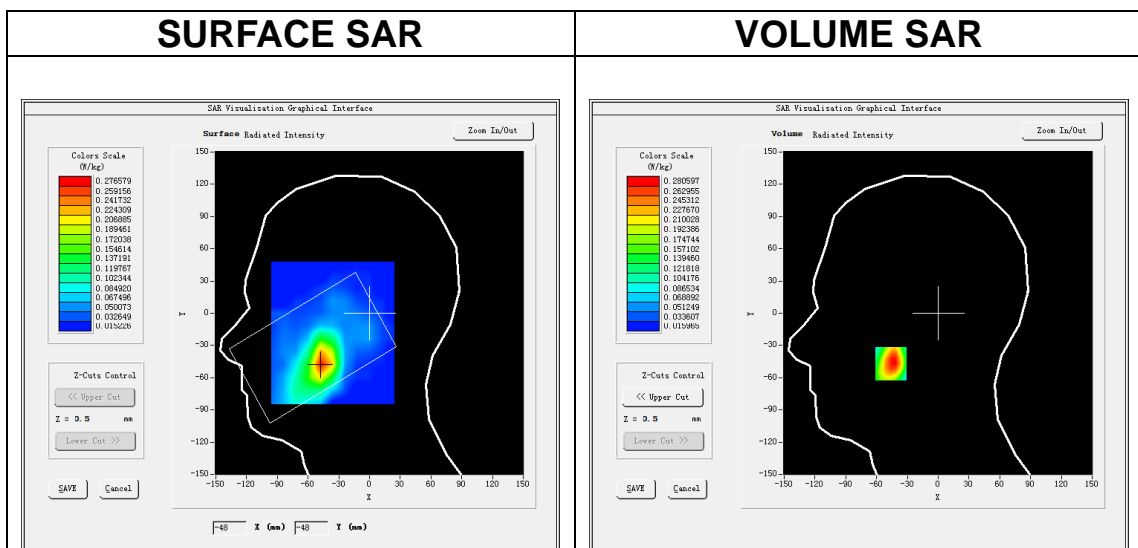
Date of measurement: 6/9/2022

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>

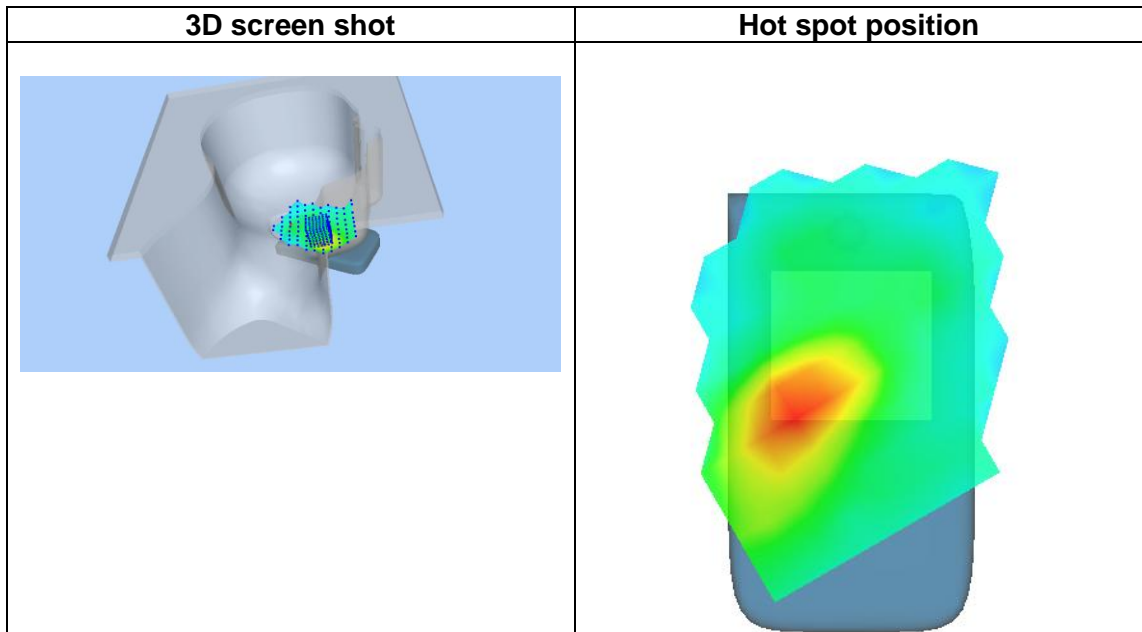
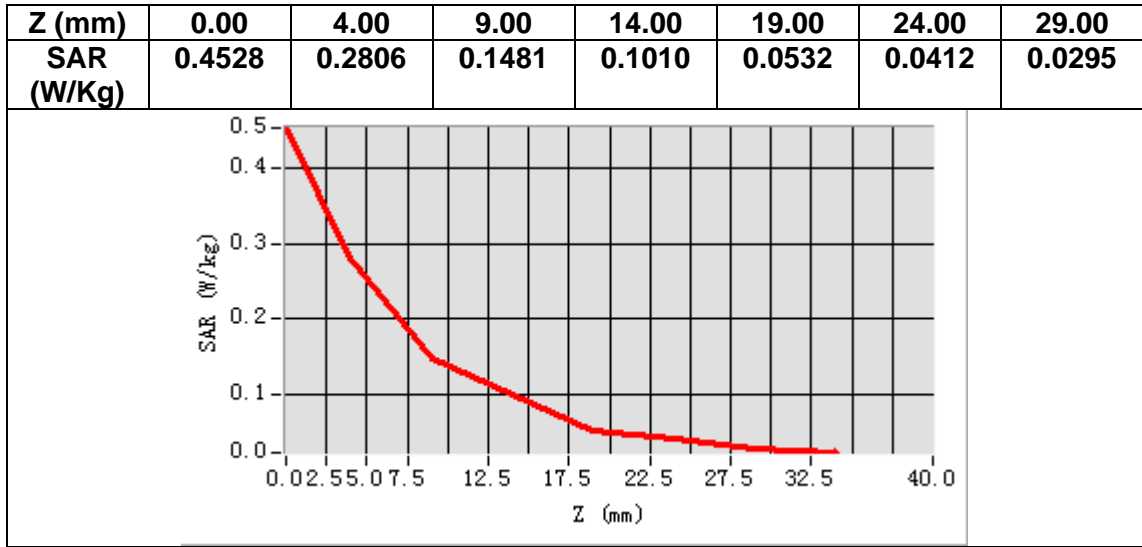
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.151672
Relative permittivity (imaginary part)	13.233253
Conductivity (S/m)	1.863683
Variation (%)	-1.930000



Maximum location: X=-46.00, Y=-47.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.146059
SAR 1g (W/Kg)	0.263306



MEASUREMENT 24

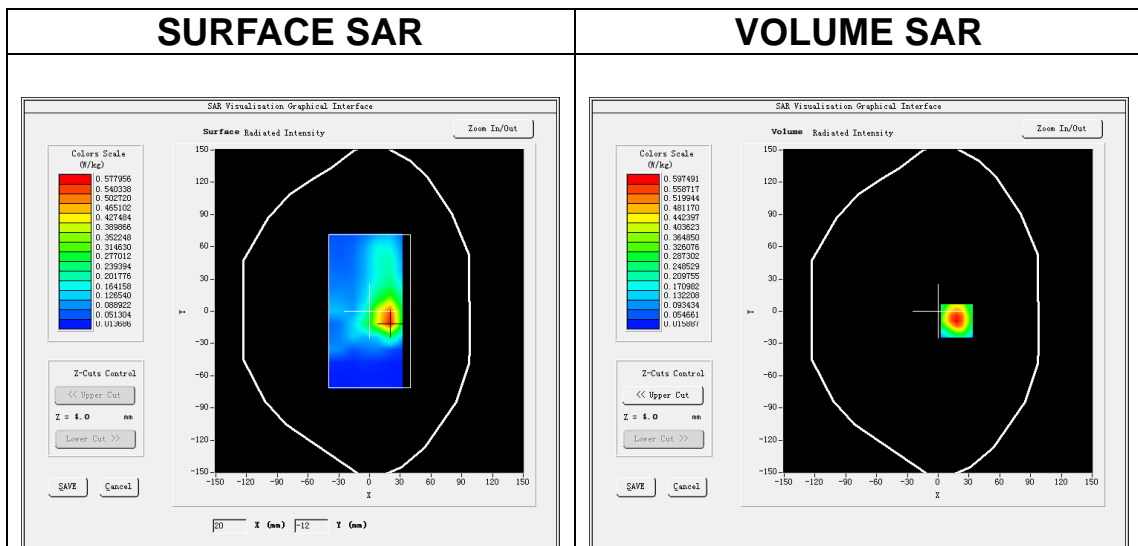
Date of measurement: 6/9/2022

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>

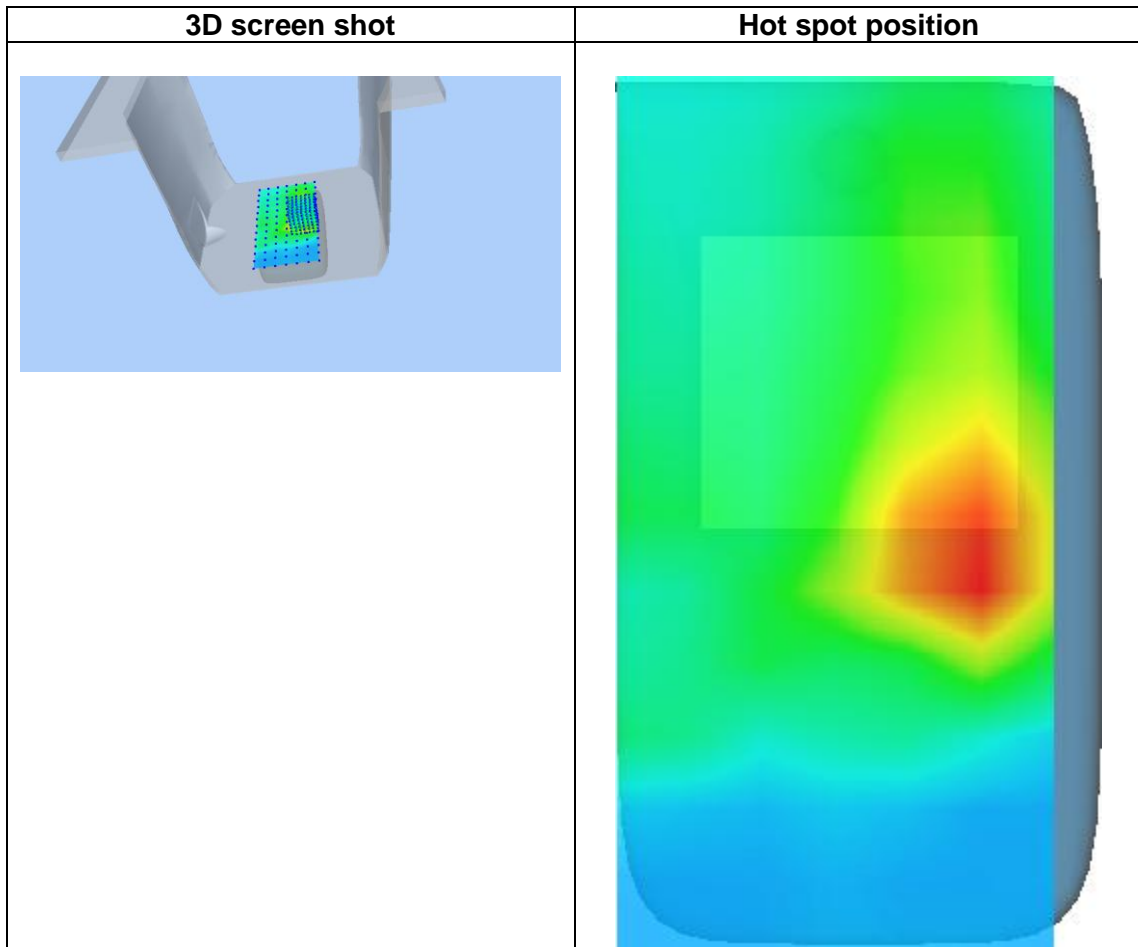
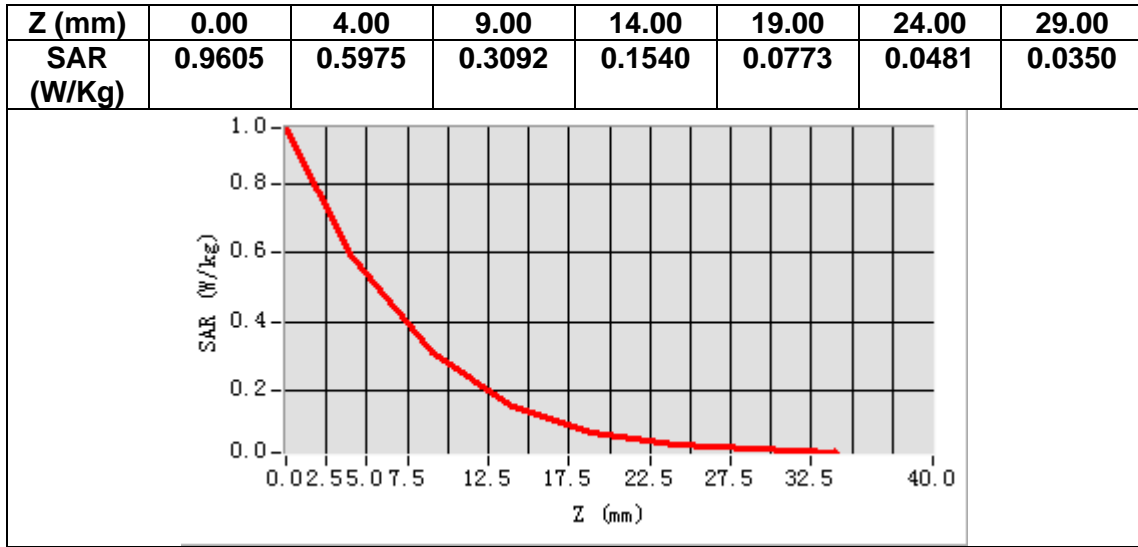
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.151672
Relative permittivity (imaginary part)	13.233253
Conductivity (S/m)	1.863683
Variation (%)	-4.850000



Maximum location: X=18.00, Y=-9.00
SAR Peak: 0.96 W/kg

SAR 10g (W/Kg)	0.274919
SAR 1g (W/Kg)	0.553513



MEASUREMENT 25

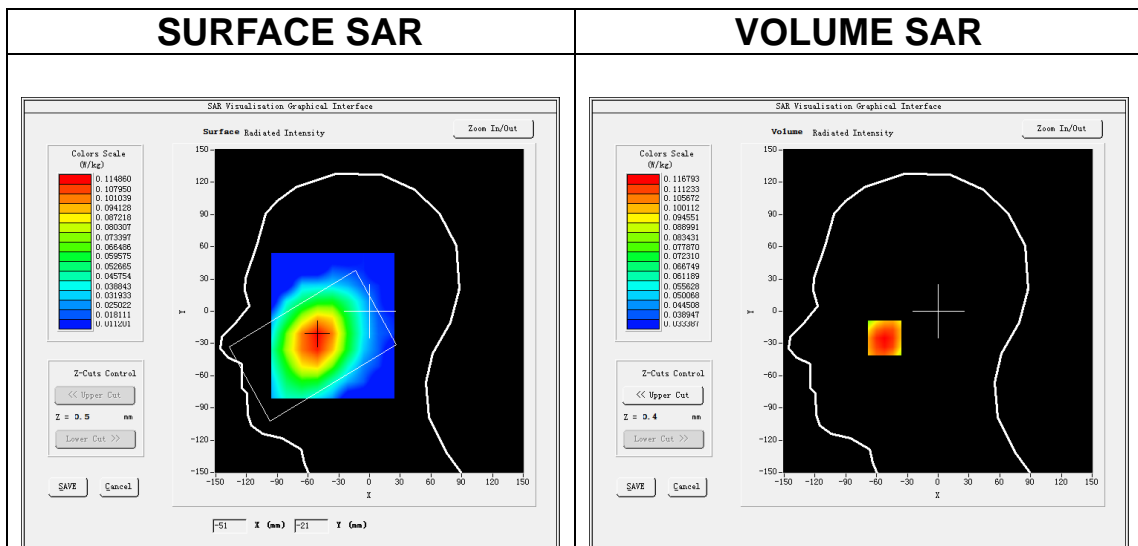
Date of measurement: 1/9/2022

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 12</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

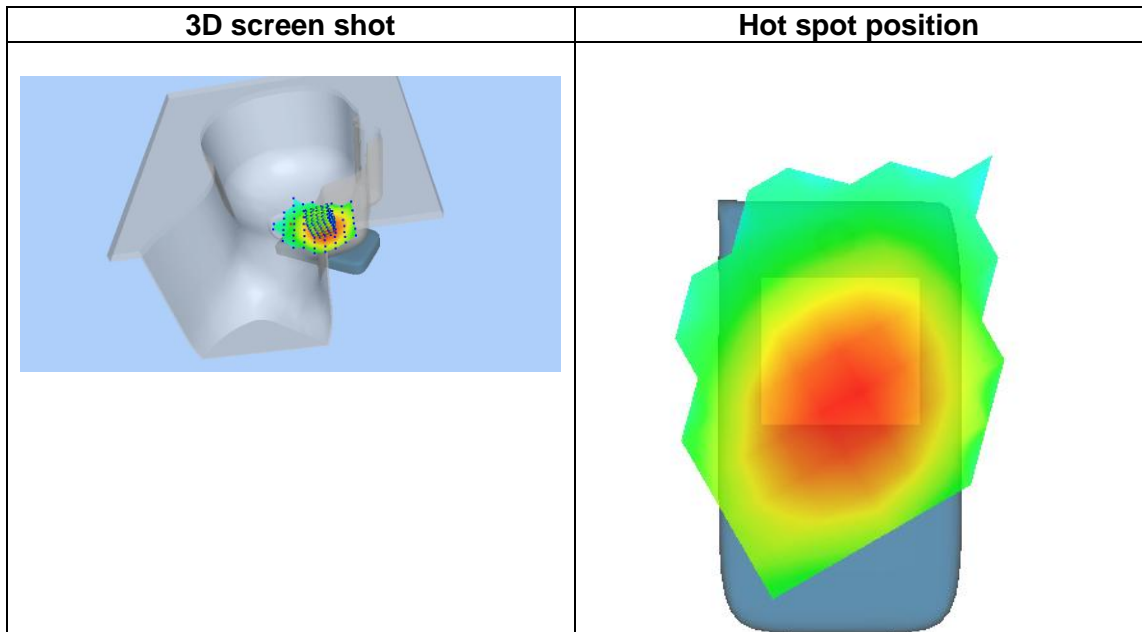
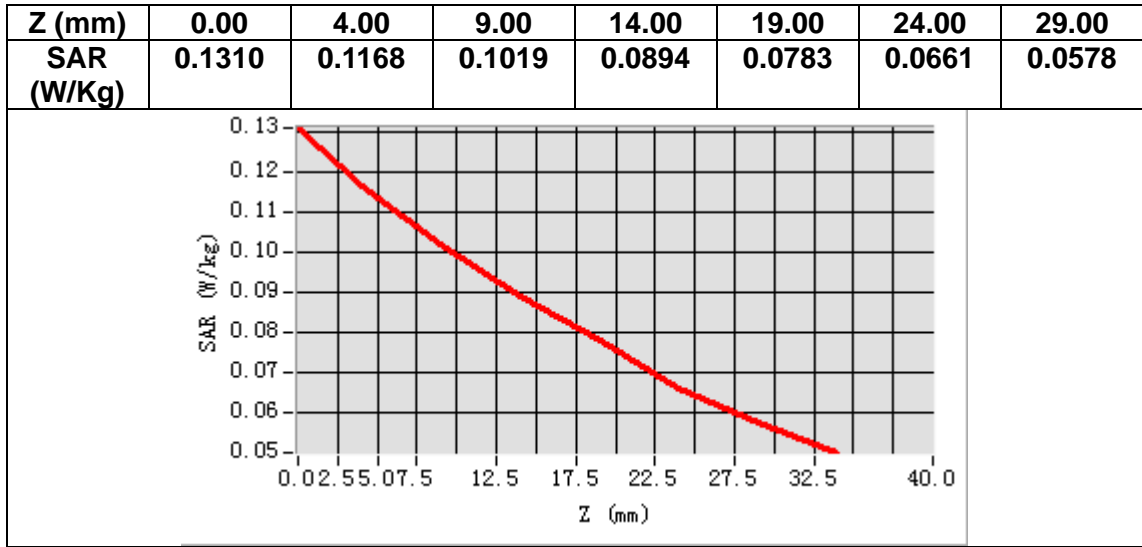
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	40.672363
Relative permittivity (imaginary part)	21.707848
Conductivity (S/m)	0.853239
Variation (%)	3.400000



Maximum location: X=-52.00, Y=-25.00
SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.094457
SAR 1g (W/Kg)	0.114904



MEASUREMENT 26

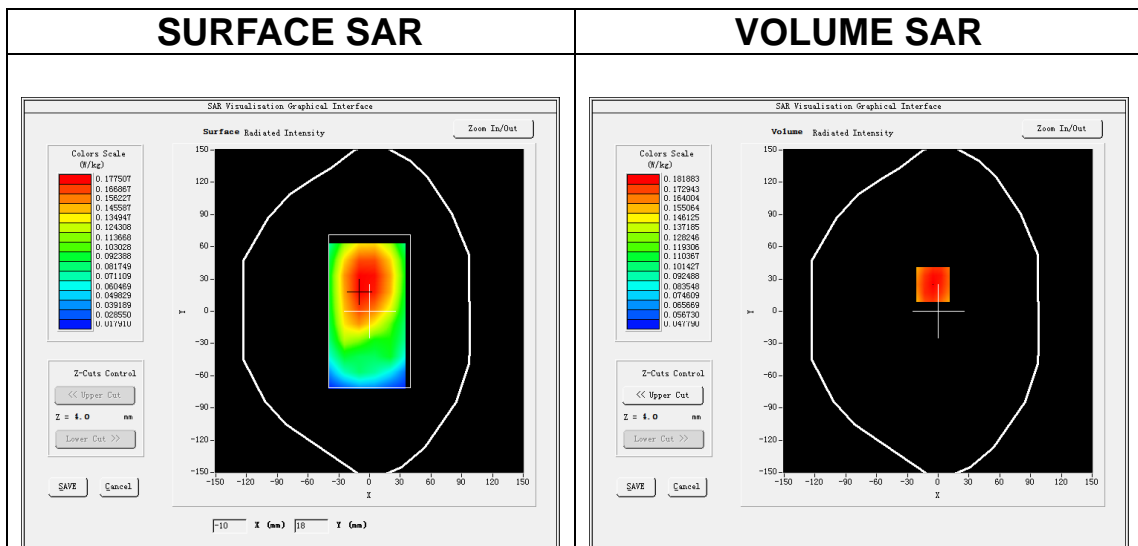
Date of measurement: 1/9/2022

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 12</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

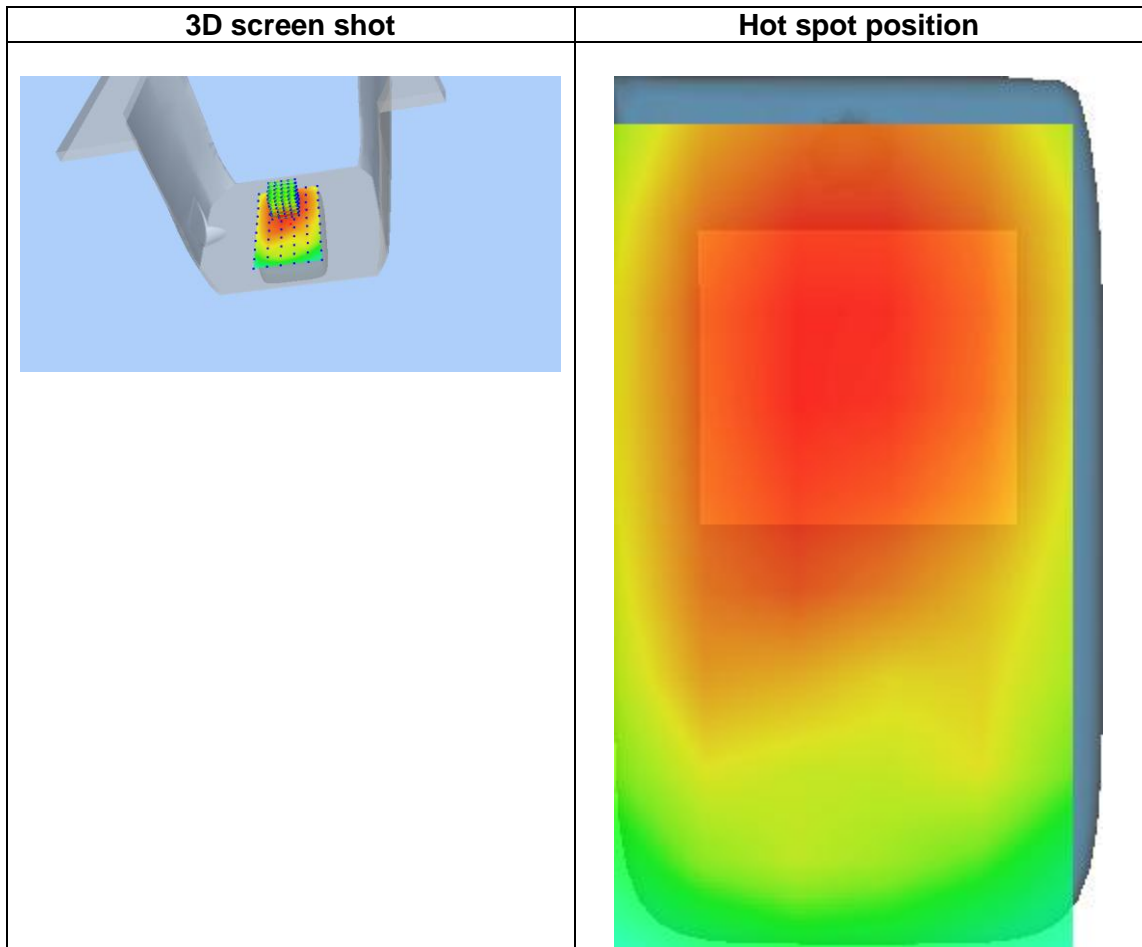
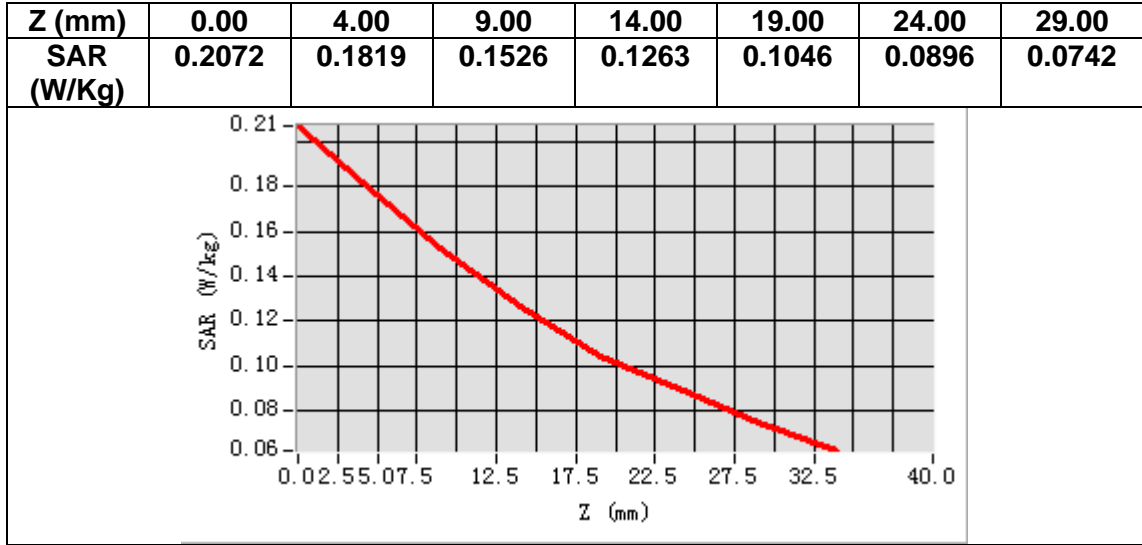
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	40.672363
Relative permittivity (imaginary part)	21.707848
Conductivity (S/m)	0.853239
Variation (%)	0.160000



Maximum location: X=-5.00, Y=25.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.143166
SAR 1g (W/Kg)	0.180521



MEASUREMENT 27

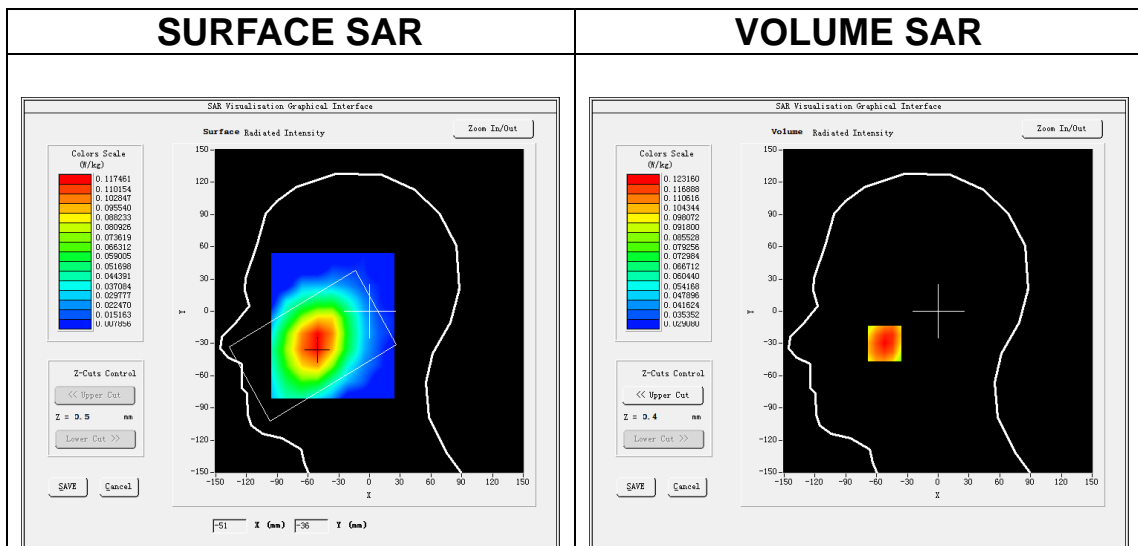
Date of measurement: 1/9/2022

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 17</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

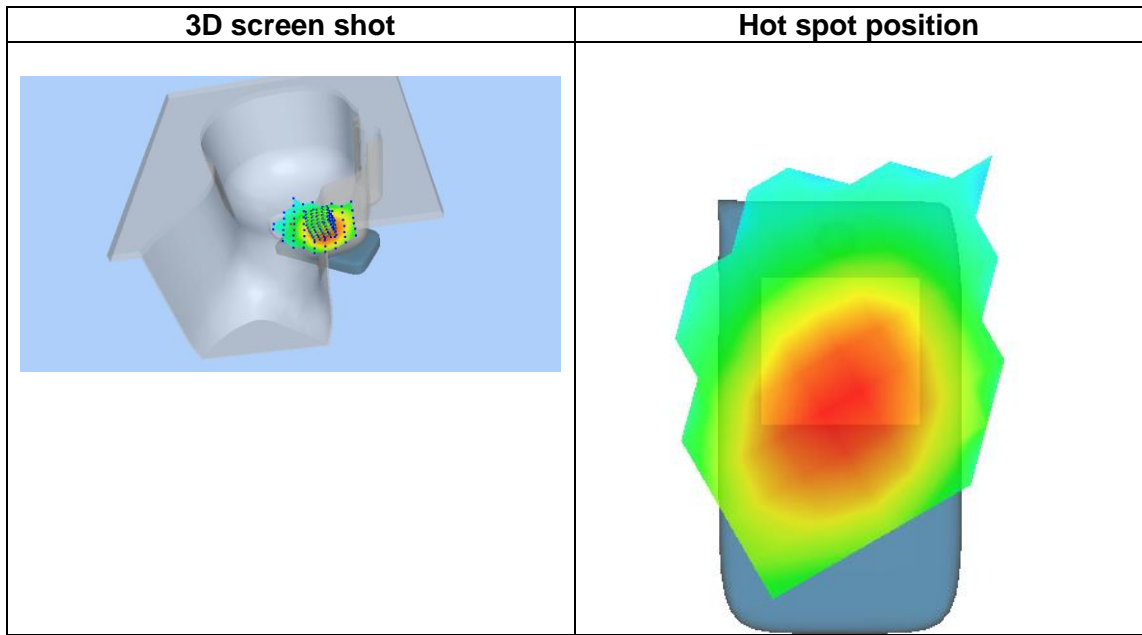
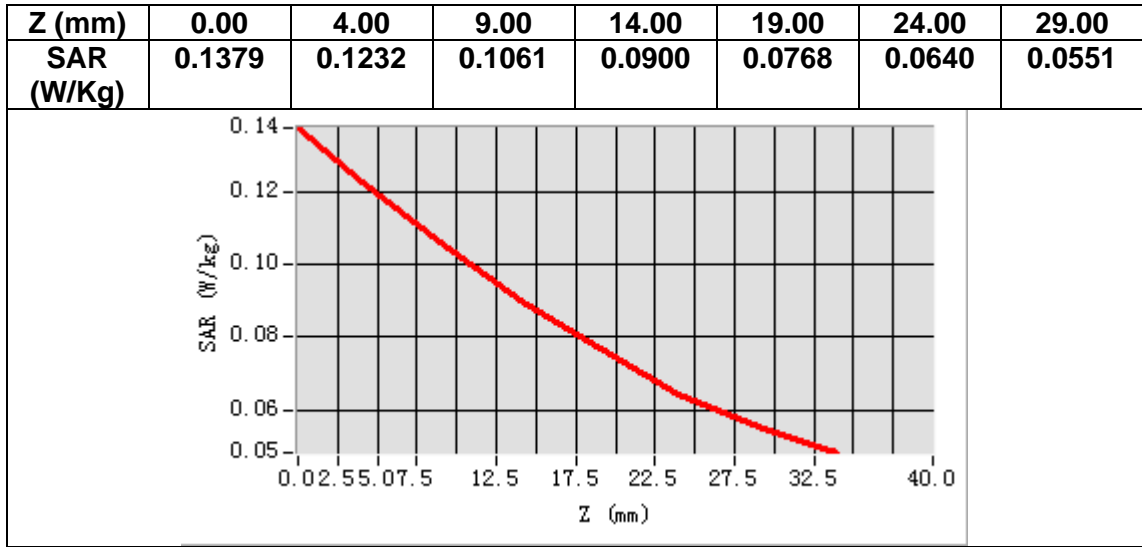
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	40.657013
Relative permittivity (imaginary part)	21.648298
Conductivity (S/m)	0.853905
Variation (%)	2.330000



Maximum location: X=-52.00, Y=-30.00
SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.096687
SAR 1g (W/Kg)	0.119642



MEASUREMENT 28

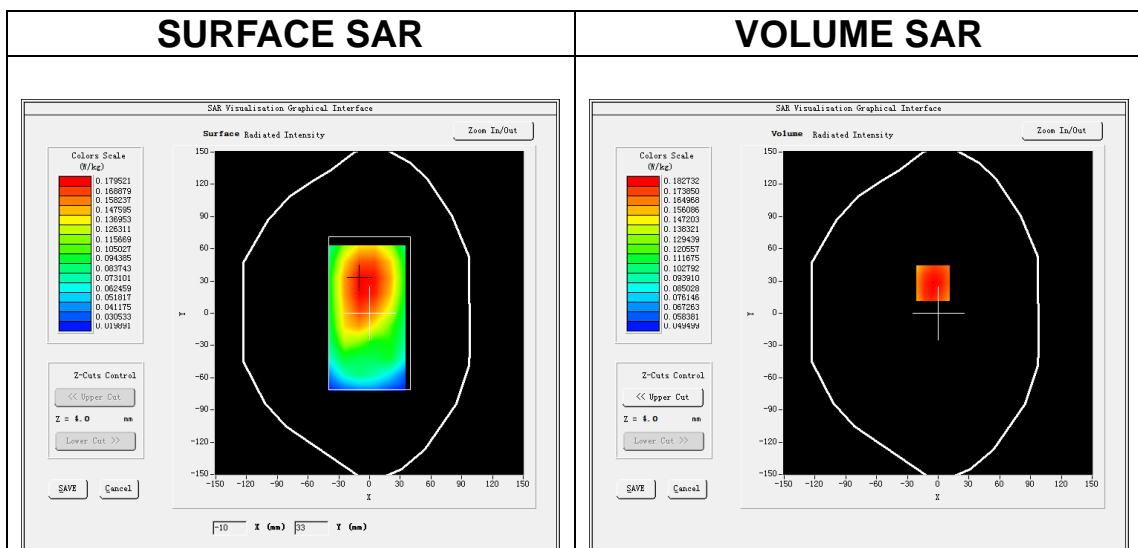
Date of measurement: 1/9/2022

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 17</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

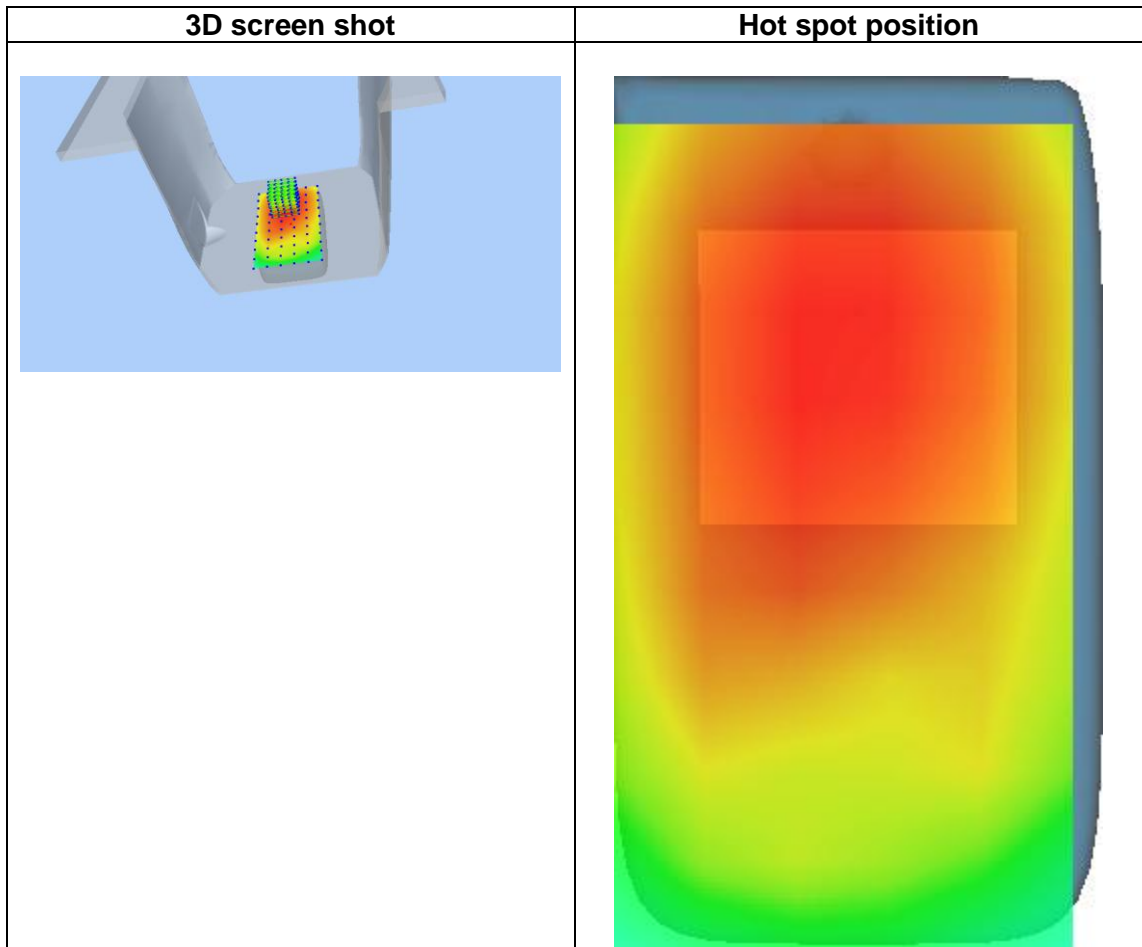
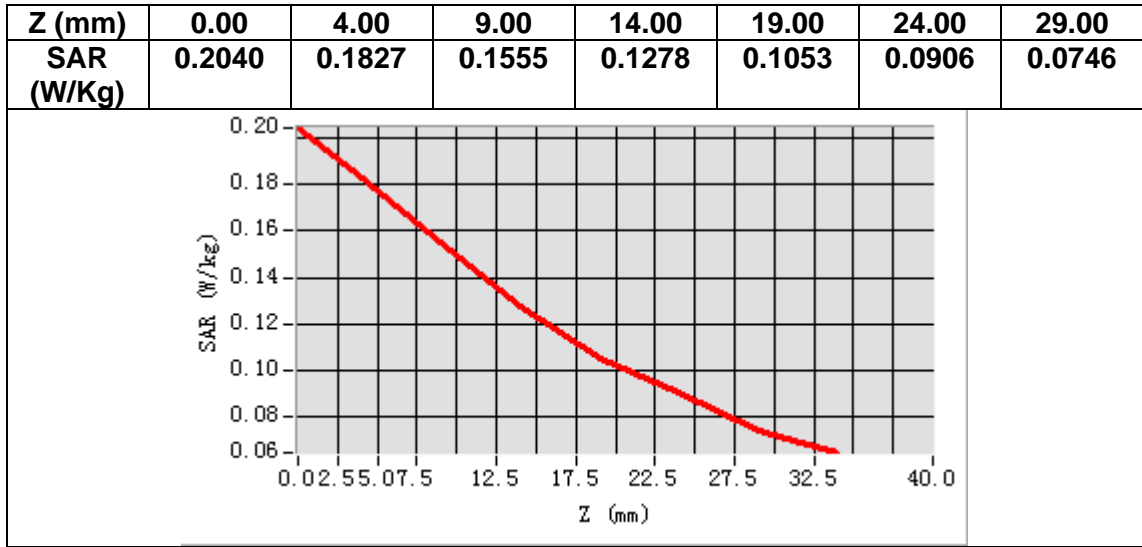
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	40.657013
Relative permittivity (imaginary part)	21.648298
Conductivity (S/m)	0.853905
Variation (%)	-0.170000



Maximum location: X=-5.00, Y=28.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.144021
SAR 1g (W/Kg)	0.178743



MEASUREMENT 29

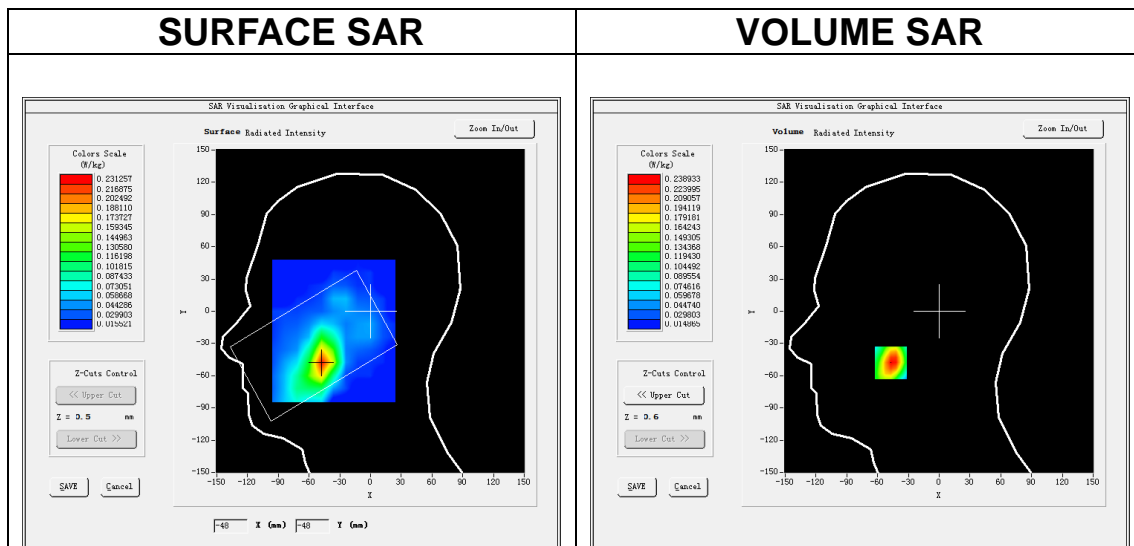
Date of measurement: 6/9/2022

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>NR SA n41</u>
Channels	<u>Middle</u>
Signal	<u>(Crest factor: 1.6)</u>
ConvF	<u>1.87</u>

B. SAR Measurement Results

Frequency (MHz)	2592.990000
Relative permittivity (real part)	37.869492
Relative permittivity (imaginary part)	13.397094
Conductivity (S/m)	1.929918
Variation (%)	3.810000



Maximum location: X=-47.00, Y=-48.00
SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.120794
SAR 1g (W/Kg)	0.223191