

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

Trademark : Blackview

Model Name : BV4900

Family Model : N/A

Report No. : STR201103001009E

FCC ID : 2APMJBV4900

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name : Smart Phone
Trademark : Blackview
Model Name : BV4900
Family Model : N/A
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
Published RF exposure KDB procedures

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

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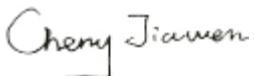
Date of Test

Date (s) of performance of tests : Nov. 06, 2020 ~ Nov. 16, 2020

Date of Issue : Nov. 30, 2020

Test Result : **Pass**

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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Nov. 30, 2020	Cheng Jiawen

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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 BV4900 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.735	0.423	0.568	N/A
1-g Body-Worn (Separation distance of 10mm)		1.248	0.345	0.271	N/A
1-g Hotspot (Separation distance of 10mm)		1.248	0.345	0.271	N/A
Max Simultaneous Tx	Head	1.303	1.158	1.303	1.000
	Body-Worn	1.593	1.593	1.519	1.380
	Hotspot	1.593	1.593	1.519	1.380

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		
Trade Name	Blackview		
Model Name	BV4900		
Family Model	N/A		
FCC ID	2APMJBV4900		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna	PIFA Antenna		
Battery Information	DC 3.85V, 5580mAh		
Device Operating Configurations			
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/17, WLAN 2.4G/5.2G, Bluetooth, NFC		
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, π/4-DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894

	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	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
EDGE 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 17)		

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: 0.06 dB
- Hemispherical Isotropy: 0.08 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 7mW/kg

Angle between probe axis (evaluation axis) and surface normal line: less than 30°.

2.3.1. E-Field Probe Calibration

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

2.4. SAM phantoms

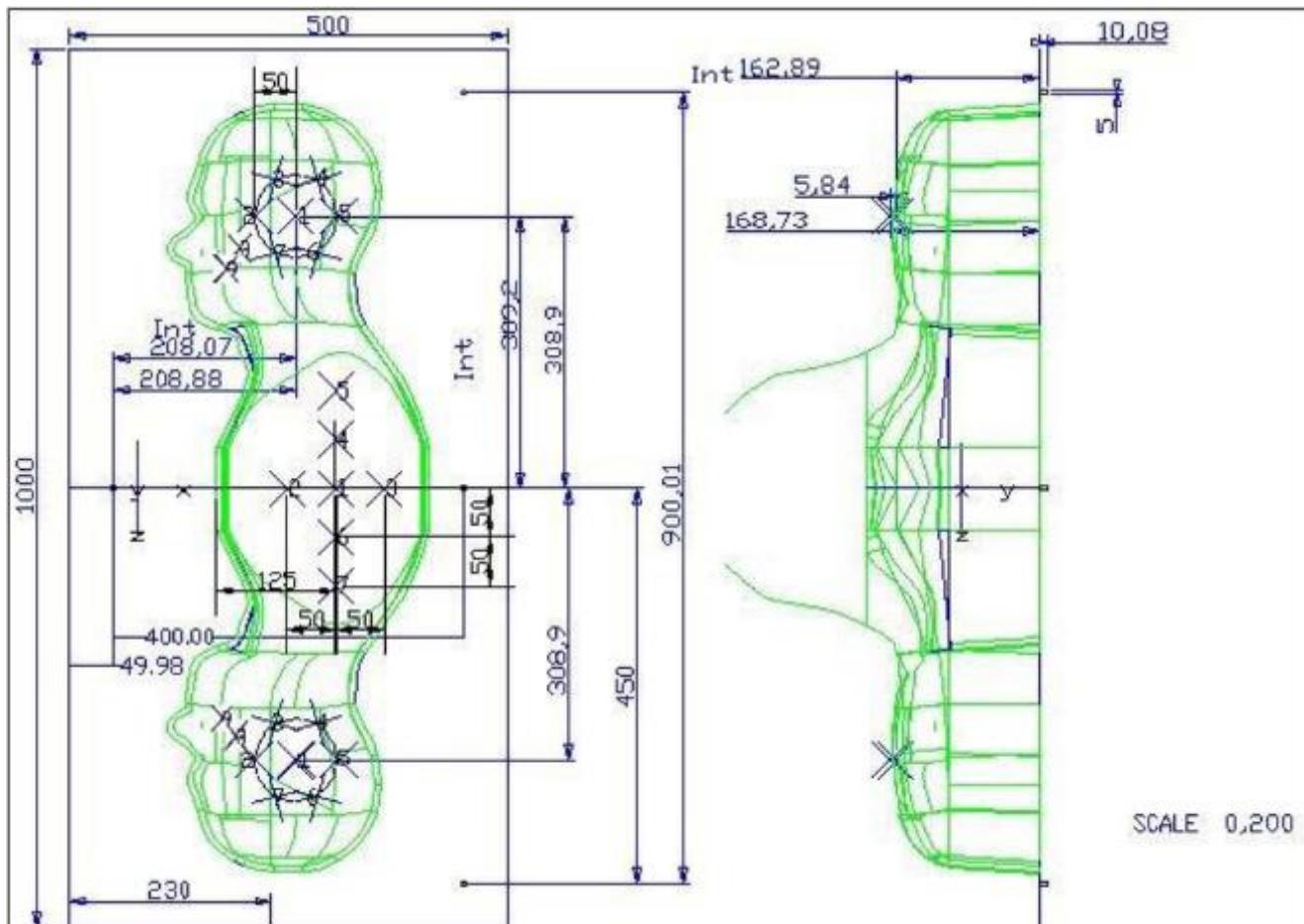
Photo of SAM phantom SN 16/15 SAM119



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

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positioner 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

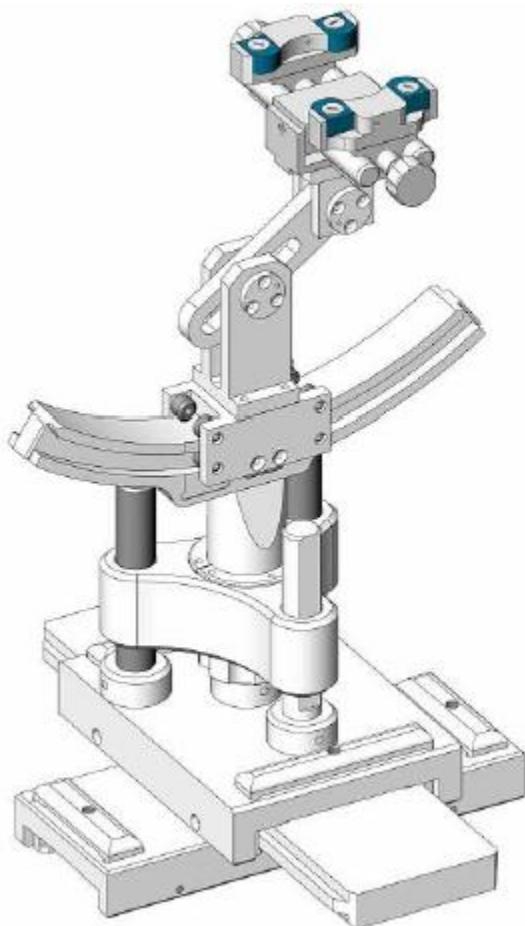


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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	Dec. 27, 2019	Dec. 26, 2020
<input checked="" type="checkbox"/>	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Apr. 19, 2018	Apr. 18, 2021
<input checked="" type="checkbox"/>	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Apr. 19, 2018	Apr. 18, 2021
<input type="checkbox"/>	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Apr. 19, 2018	Apr. 18, 2021
<input checked="" type="checkbox"/>	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Apr. 19, 2018	Apr. 18, 2021
<input checked="" type="checkbox"/>	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Apr. 19, 2018	Apr. 18, 2021
<input type="checkbox"/>	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Apr. 19, 2018	Apr. 18, 2021
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Apr. 19, 2018	Apr. 18, 2021
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Apr. 19, 2018	Apr. 18, 2021
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Apr. 19, 2018	Apr. 18, 2021
<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	Jul. 13, 2020	Jul. 12, 2021
<input checked="" type="checkbox"/>	R&S	Wideband radio communication tester	CMW500	103917	Jul. 13, 2020	Jul. 12, 2021
<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	Jul. 13, 2020	Jul. 12, 2021
<input checked="" type="checkbox"/>	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 13, 2020	Jul. 12, 2021

<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	Jul. 13, 2020	Jul. 12, 2021
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	Jul. 13, 2020	Jul. 12, 2021
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	Jul. 13, 2020	Jul. 12, 2021
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 17, 2020	Jul. 16, 2023

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/Bluetooth output power.

<SAR measurement>

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

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

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

3.1. Power Reference

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

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan above the hot spot to calculate the 1g and 10g SAR value.

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

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

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

		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		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 \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1): \text{between } 1^{\text{st}} \text{ two points closest to phantom surface}$ $\Delta z_{\text{Zoom}}(n>1): \text{between subsequent points}$	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

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 $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ 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 to 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 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.

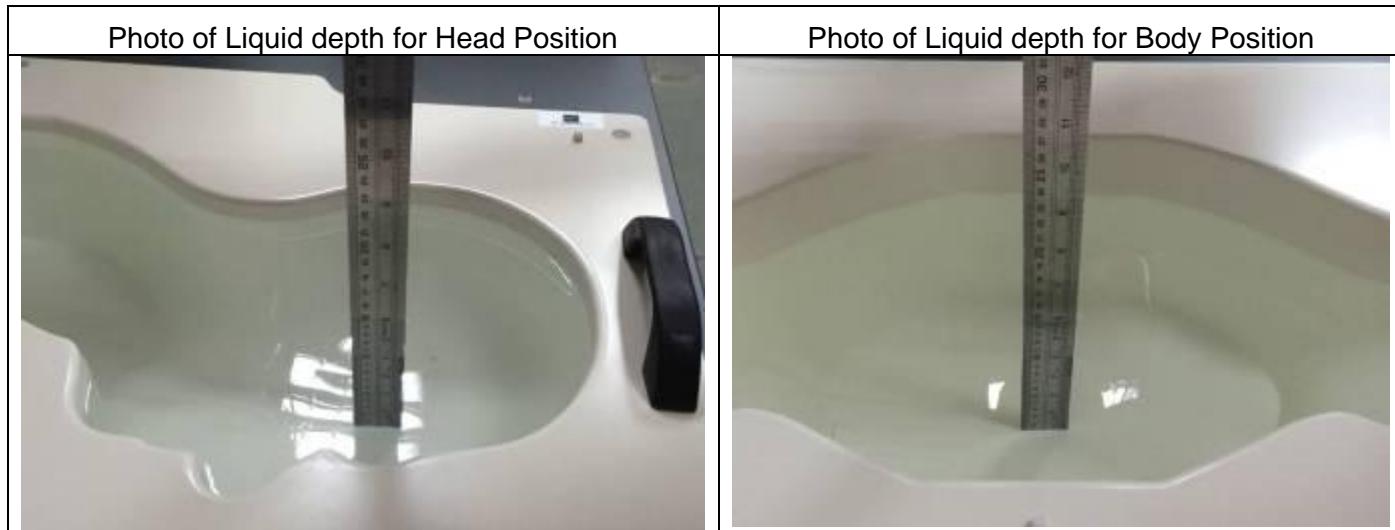
4. System Verification Procedure

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

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



4.1.1. Tissue Dielectric Parameter Check Results

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

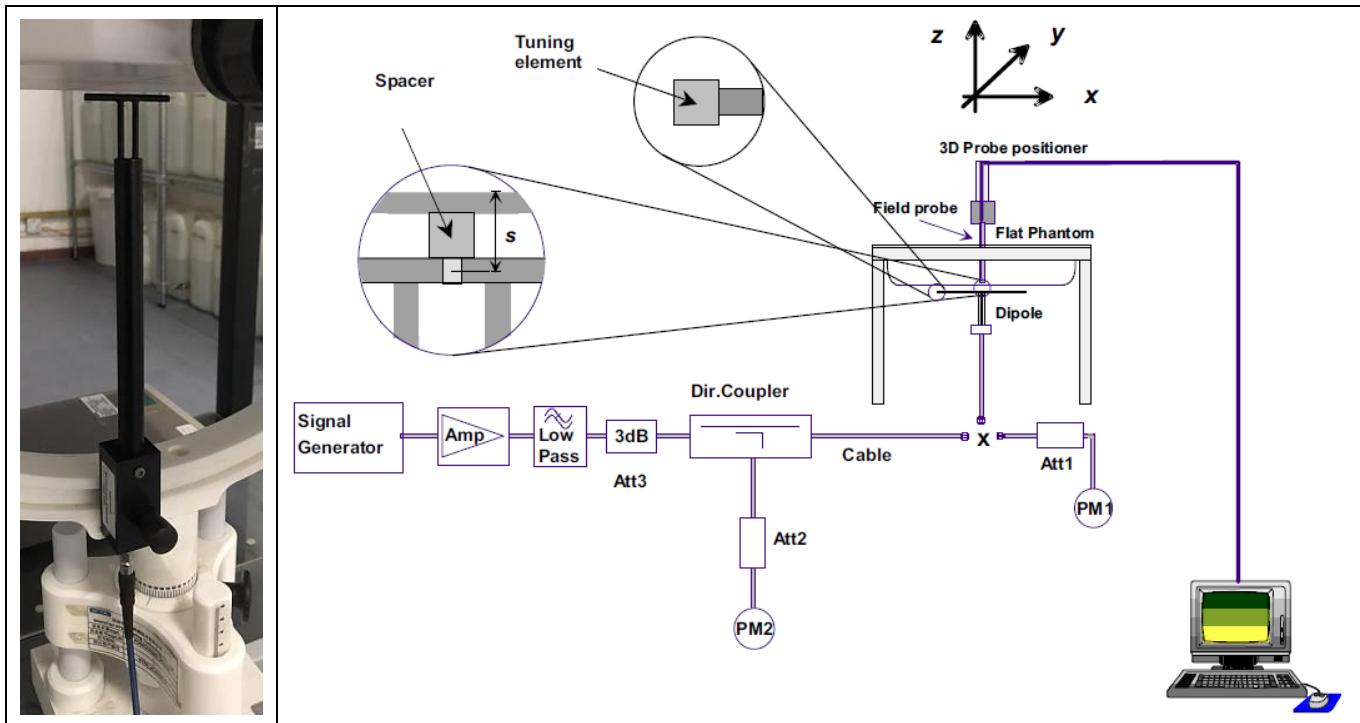
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	42.05	0.90	21.5 °C	Nov. 13, 2020
Body 750	750	55.55 (52.77~58.33)	0.96 (0.91~1.01)	55.78	0.97	21.5 °C	Nov. 13, 2020
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.11	0.92	21.5 °C	Nov. 15, 2020
Body 850	835	55.20 (52.44~57.96)	0.97 (0.92~1.02)	54.84	0.97	21.5 °C	Nov. 14, 2020
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.97	1.36	21.7 °C	Nov. 15, 2020
Body 1800	1800	53.30 (50.64~55.97)	1.52 (1.44~1.60)	54.18	1.51	21.3 °C	Nov. 10, 2020
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.82	1.43	21.1 °C	Nov. 11, 2020
Body 1900	1900	53.30 (50.64~55.97)	1.52 (1.44~1.60)	54.39	1.52	21.2 °C	Nov. 11, 2020
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.71	1.83	21.4 °C	Nov. 12, 2020
Body 2450	2450	52.70 (50.07~55.34)	1.95 (1.85~2.05)	51.67	1.88	21.5 °C	Nov. 12, 2020
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.44	1.99	21.4 °C	Nov. 16, 2020
Body 2600	2600	52.51 (49.88~55.14)	2.16 (2.05~2.27)	52.91	2.21	21.2 °C	Nov. 07, 2020
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.76	4.63	21.5 °C	Nov. 06, 2020
Body 5200	5200	49.00 (46.55~51.45)	5.30 (5.04~5.57)	49.77	5.24	21.5 °C	Nov. 09, 2020

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 Head	8.56 (7.70~9.42)	5.55 (5.00~6.11)	8.83	5.98	21.5 °C	Nov. 13, 2020
750MHz Body	8.85 (7.97~9.74)	5.91 (5.32~6.50)	9.30	5.61	21.5 °C	Nov. 13, 2020
835MHz Head	9.55 (8.60~10.51)	6.10 (5.49~6.71)	9.71	6.36	21.5 °C	Nov. 15, 2020
835MHz Body	9.83 (8.85~10.81)	6.45 (5.81~7.10)	10.44	6.55	21.5 °C	Nov. 14, 2020
1800MHz Head	38.11 (34.30~41.92)	20.05 (18.05~22.06)	37.35	20.82	21.7 °C	Nov. 15, 2020
1800MHz Body	38.13 (34.32~41.94)	20.65 (18.59~22.72)	39.20	20.43	21.3 °C	Nov. 10, 2020
1900MHz Head	38.92 (35.03~42.81)	20.09 (18.08~22.10)	38.18	20.57	21.1 °C	Nov. 11, 2020
1900MHz Body	39.02 (35.12~42.92)	20.57 (18.51~22.63)	38.46	21.46	21.2 °C	Nov. 11, 2020
2450MHz Head	53.76 (48.38~59.14)	24.12 (21.71~26.53)	54.51	24.42	21.4 °C	Nov. 12, 2020
2450MHz Body	52.90 (47.61~58.19)	24.09 (21.68~26.50)	51.41	23.12	21.5 °C	Nov. 12, 2020
2600MHz Head	55.60 (50.04~61.16)	24.60 (22.14~27.06)	56.59	25.36	21.5 °C	Nov. 16, 2020
2600MHz Body	52.49 (47.24~57.74)	23.74 (21.37~26.11)	56.03	23.42	21.2 °C	Nov. 07, 2020
5200MHz Head	160.94 (144.85~177.03)	55.97 (50.37~61.57)	158.55	54.57	21.5 °C	Nov. 06, 2020
5200MHz Body	156.85 (141.17~172.54)	55.20 (49.68~60.72)	159.85	55.28	21.5 °C	Nov. 09, 2020

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

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

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

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Ear and handset reference point

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

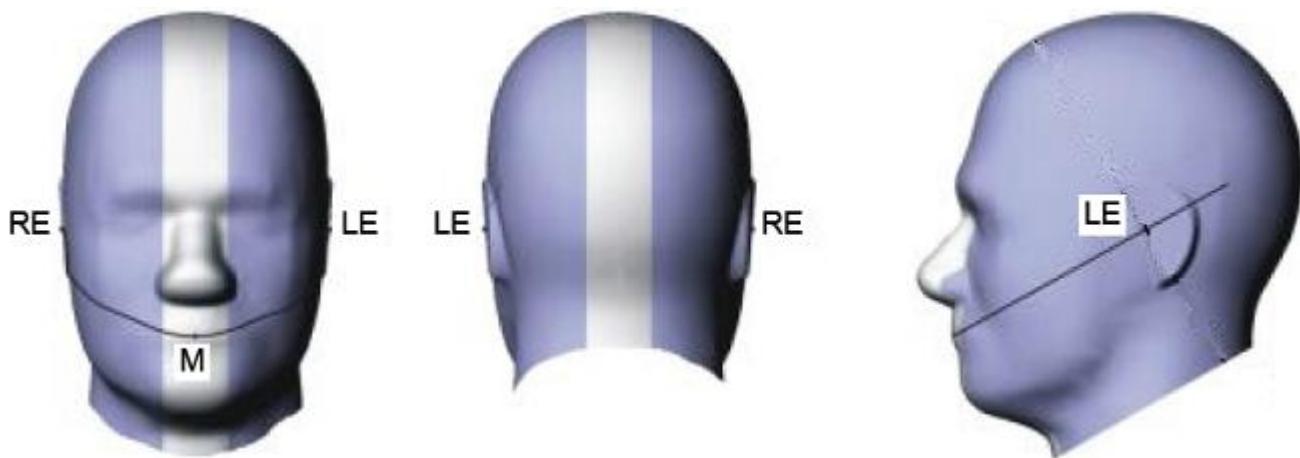


Fig 6.1.1 Front, back, and side views of SAM phantom

6.2. Definition of the cheek position

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

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

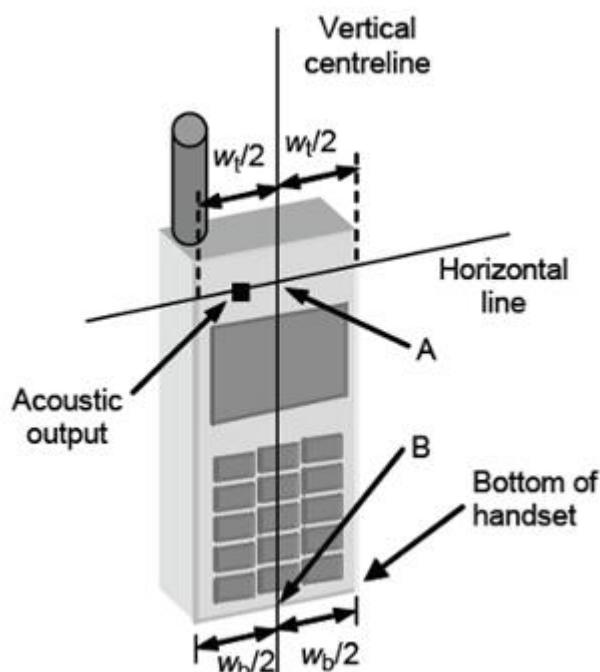


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

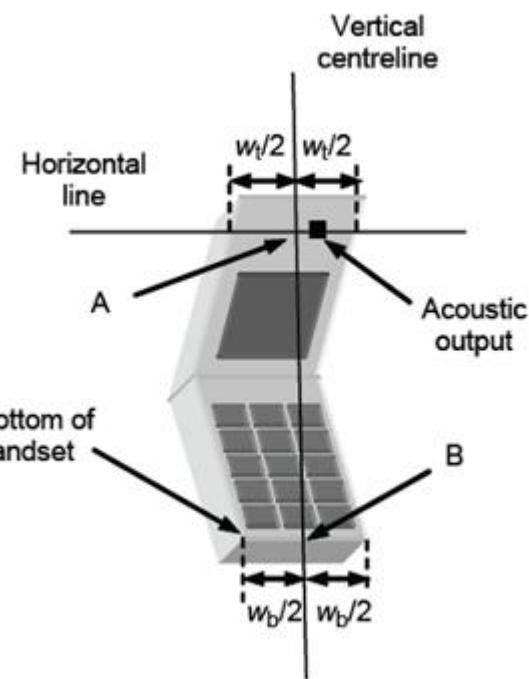


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

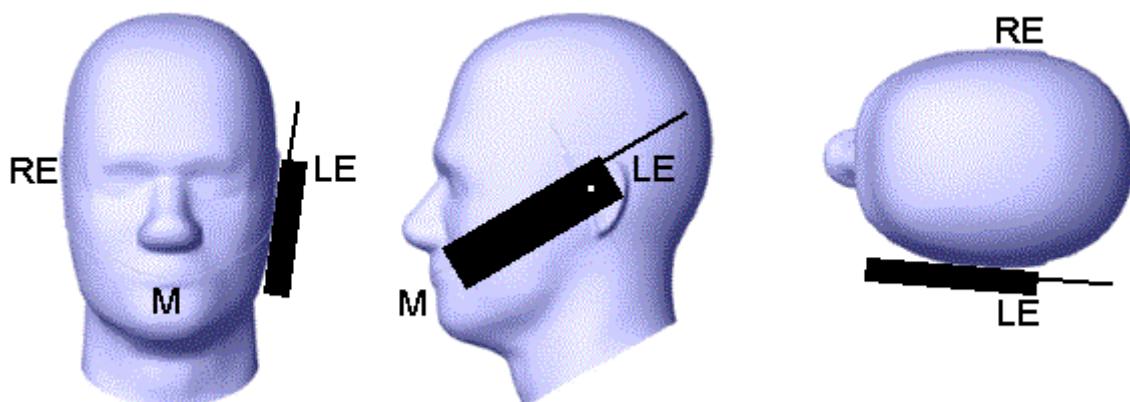


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

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

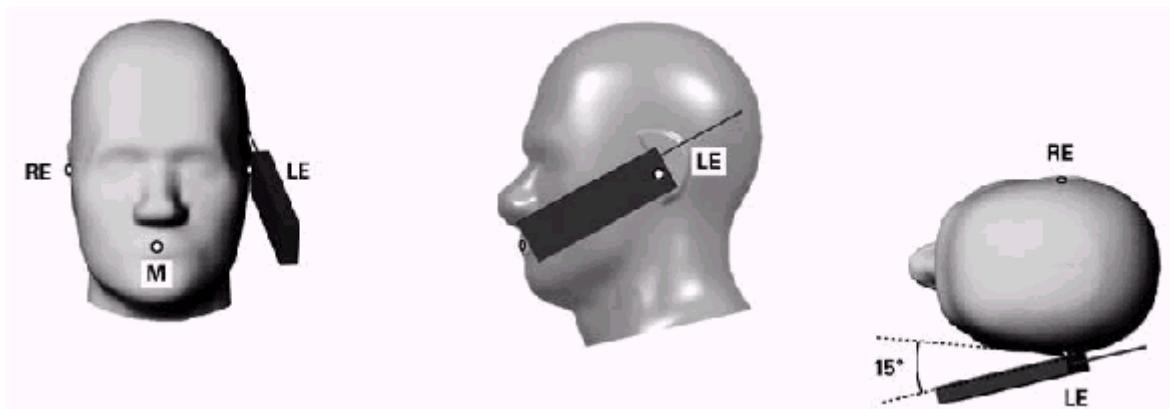


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 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 tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

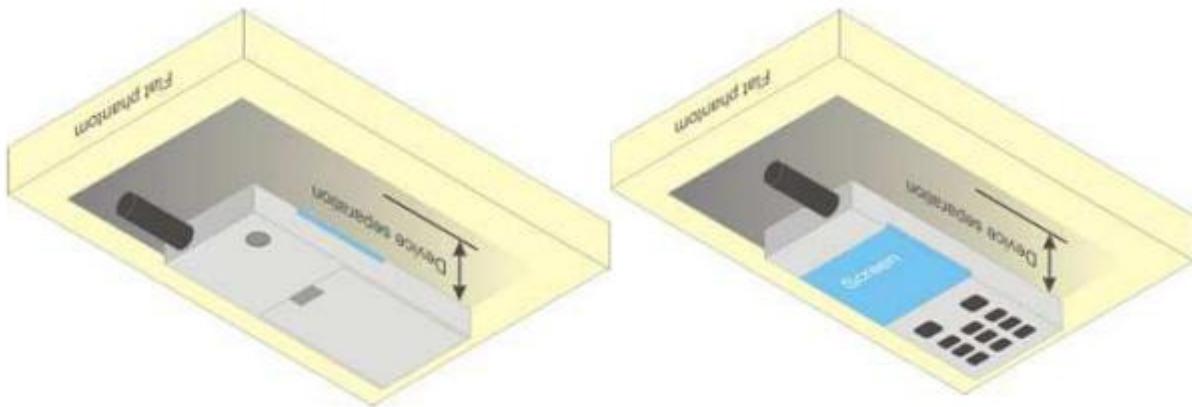


Figure 6.4.1 – Test positions for body-worn devices

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	32.86	32.82	32.83	23.97	23.83	23.79	23.80
GPRS(GMSK, 1 TS)	33.00	32.86	32.80	32.84	23.97	23.83	23.77	23.81
GPRS(GMSK, 2 TS)	33.00	32.15	32.09	32.10	26.98	26.13	26.07	26.08
GPRS(GMSK, 3 TS)	31.00	30.44	30.37	30.37	26.74	26.18	26.11	26.11
GPRS(GMSK, 4 TS)	30.00	29.42	29.39	29.38	26.99	26.41	26.38	26.37
EDGE(GMSK, 1 TS)	27.00	26.67	26.57	26.34	17.97	17.64	17.54	17.31
EDGE(GMSK, 2 TS)	26.00	25.11	25.97	25.78	19.98	19.09	19.95	19.76
EDGE(GMSK, 3 TS)	24.00	23.42	23.52	23.14	19.74	19.16	19.26	18.88
EDGE(GMSK, 4 TS)	23.00	22.02	22.15	21.93	19.99	19.01	19.14	18.92
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880.0	1909.8	(dBm)	1850.2	1880.0	1909.8
GSM (GMSK)	31.00	30.15	30.32	30.08	21.97	21.12	21.29	21.05
GPRS(GMSK, 1 TS)	31.00	30.14	30.32	30.08	21.97	21.11	21.29	21.05
GPRS(GMSK, 2 TS)	30.00	29.35	29.51	29.28	23.98	23.33	23.49	23.26
GPRS(GMSK, 3 TS)	28.00	27.49	27.63	27.43	23.74	23.23	23.37	23.17
GPRS(GMSK, 4 TS)	27.00	26.39	26.57	26.33	23.99	23.38	23.56	23.32
EDGE(GMSK, 1 TS)	27.00	25.97	26.24	25.96	17.97	16.94	17.21	16.93
EDGE(GMSK, 2 TS)	25.00	24.87	24.87	24.37	18.98	18.85	18.85	18.35
EDGE(GMSK, 3 TS)	23.00	22.51	22.68	22.31	18.74	18.25	18.42	18.05
EDGE(GMSK, 4 TS)	22.00	21.34	21.43	21.15	18.99	18.33	18.42	18.14

Note: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

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

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

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

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

7.2. WCDMA Conducted Power

Band	WCDMA Band 2			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC 12.2Kbps	24.00	23.87	23.61	23.35
HSDPA Subtest-1	23.00	22.35	22.26	22.15
HSDPA Subtest-2	22.00	21.47	21.64	21.14
HSDPA Subtest-3	21.00	20.74	20.88	20.72
HSDPA Subtest-4	21.00	20.71	20.42	20.50
HSUPA Subtest-1	22.00	21.69	21.82	21.82
HSUPA Subtest-2	23.00	22.29	22.23	22.08
HSUPA Subtest-3	22.00	21.02	20.98	20.75
HSUPA Subtest-4	23.00	22.37	22.27	22.14
HSUPA Subtest-5	22.00	21.69	21.54	21.33
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC 12.2Kbps	23.00	22.97	22.92	23.00
HSDPA Subtest-1	23.00	22.04	21.97	22.12
HSDPA Subtest-2	22.00	21.41	21.57	21.56
HSDPA Subtest-3	21.00	20.30	20.25	20.57
HSDPA Subtest-4	21.00	20.56	20.44	20.58
HSUPA Subtest-1	22.00	21.63	21.50	21.50
HSUPA Subtest-2	23.00	21.97	21.91	22.07
HSUPA Subtest-3	22.00	20.76	20.72	21.04
HSUPA Subtest-4	23.00	22.01	21.94	22.11
HSUPA Subtest-5	22.00	21.18	21.02	21.28
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC 12.2Kbps	23.00	22.58	22.64	22.65
HSDPA Subtest-1	22.00	21.66	21.66	21.67
HSDPA Subtest-2	22.00	21.24	21.13	21.03
HSDPA Subtest-3	21.00	20.16	20.02	20.16
HSDPA Subtest-4	21.00	19.98	20.26	20.08
HSUPA Subtest-1	22.00	21.25	21.33	21.41
HSUPA Subtest-2	22.00	21.59	21.63	21.57
HSUPA Subtest-3	21.00	20.14	20.45	20.53

HSUPA Subtest-4	22.00	21.64	21.69	21.66
HSUPA Subtest-5	22.00	21.01	20.84	20.87

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.12	23.00	22.92
			1	2	24.00	23.28	23.15	23.07
			1	5	24.00	23.15	22.99	22.93
			3	0	24.00	23.17	23.11	22.98
			3	1	24.00	23.20	23.12	22.96
			3	2	24.00	23.19	23.09	22.98
			6	0	23.00	22.16	22.06	22.02
		16QAM	1	0	23.00	22.29	22.13	21.71
			1	2	23.00	22.39	22.32	21.89
			1	5	23.00	22.31	22.18	21.77
			3	0	23.00	22.34	22.29	22.07
			3	1	23.00	22.33	22.30	22.08
			3	2	23.00	22.30	22.33	22.10
			6	0	22.00	21.31	21.23	21.15
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.00	23.19	23.06	23.02
			1	7	24.00	23.40	23.38	23.31
			1	14	24.00	23.17	23.07	23.03
			8	0	23.00	22.20	22.08	21.99
			8	4	23.00	22.20	22.14	22.04
			8	7	23.00	22.20	22.08	21.97
			15	0	23.00	22.16	22.07	21.94
		16QAM	1	0	23.00	22.57	22.26	21.82
			1	7	23.00	22.87	22.50	22.13
			1	14	23.00	22.52	22.22	21.77
			8	0	22.00	21.21	21.11	20.99
			8	4	22.00	21.21	21.12	20.98
			8	7	22.00	21.20	21.08	20.95
			15	0	22.00	21.16	21.04	21.03
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	24.00	23.10	23.03	22.86
			1	12	24.00	23.59	23.34	23.39
			1	24	24.00	23.07	23.02	22.86
			12	0	23.00	22.18	22.09	21.96
			12	6	23.00	22.23	22.13	22.04

			12	11	23.00	22.19	22.08	21.95
			25	0	23.00	22.20	22.11	21.97
		16QAM	1	0	23.00	22.58	22.31	22.18
			1	12	23.00	22.98	22.71	22.56
			1	24	23.00	22.58	22.30	22.12
			12	0	22.00	21.14	21.02	20.95
			12	6	22.00	21.17	21.07	21.01
			12	11	22.00	21.16	21.03	20.92
			25	0	22.00	21.13	21.12	20.94
			RB Configuration		Tune-up	Channel/Frequency(MHz)		
Band	Band Width	Modulation	RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.00	23.18	23.12	22.97
			1	24	24.00	23.00	23.20	23.10
			1	49	24.00	23.15	23.02	22.96
			25	0	23.00	22.21	22.16	22.05
			25	12	23.00	22.19	22.13	22.00
			25	24	23.00	22.26	22.15	21.97
			50	0	23.00	22.20	22.15	22.02
		16QAM	1	0	23.00	22.54	22.24	21.83
			1	24	23.00	22.68	22.37	21.95
			1	49	23.00	22.49	22.19	21.78
			25	0	22.00	21.20	21.16	21.03
			25	12	22.00	21.22	21.14	21.00
			25	24	22.00	21.26	21.14	20.96
			50	0	22.00	21.20	21.21	21.00
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	24.00	23.13	23.02	22.88
			1	37	24.00	23.48	23.24	23.22
			1	74	24.00	22.96	22.94	22.83
			36	0	23.00	22.23	22.19	22.08
			36	18	23.00	22.26	22.17	22.04
			36	37	23.00	22.23	22.14	22.02
			75	0	23.00	22.23	22.20	22.07
		16QAM	1	0	23.00	22.24	22.39	22.06
			1	37	23.00	22.63	22.73	22.33
			1	74	23.00	22.14	22.31	21.96
			36	0	22.00	21.19	21.19	21.12
			36	18	22.00	21.18	21.14	21.06
			36	37	22.00	21.17	21.13	21.10
			75	0	22.00	21.21	21.16	21.03
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.00	22.95	22.83	22.81
			1	49	24.00	23.26	23.19	23.11
			1	99	24.00	22.79	22.78	22.72

			50	0	23.00	22.11	22.17	22.10
			50	24	23.00	22.17	22.16	21.99
			50	49	23.00	22.13	22.12	21.93
			100	0	23.00	22.16	22.16	22.01
		16QAM	1	0	23.00	22.26	22.11	22.03
			1	49	23.00	22.58	22.50	22.31
			1	99	23.00	22.10	22.00	21.90
			50	0	22.00	21.15	21.18	21.16
			50	24	22.00	21.23	21.12	21.04
			50	49	22.00	21.21	21.11	20.96
			100	0	22.00	21.18	21.18	21.09

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.00	22.68	22.62	22.76
			1	2	23.00	22.82	22.76	22.85
			1	5	23.00	22.69	22.60	22.78
			3	0	23.00	22.78	22.67	22.85
			3	1	23.00	22.75	22.72	22.84
			3	2	23.00	22.74	22.69	22.84
			6	0	22.00	21.74	21.61	21.79
		16QAM	1	0	23.00	21.54	21.77	21.93
			1	2	23.00	21.69	21.89	22.03
			1	5	23.00	21.55	21.79	21.94
			3	0	23.00	21.88	21.83	22.06
			3	1	23.00	21.86	21.83	22.04
			3	2	23.00	21.91	21.82	22.04
			6	0	21.00	20.86	20.80	20.93
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.00	22.79	22.73	22.83
			1	7	23.00	23.00	23.00	23.00
			1	14	23.00	22.77	22.65	22.85
			8	0	22.00	21.76	21.66	21.87
			8	4	22.00	21.77	21.69	21.92
			8	7	22.00	21.70	21.67	21.88
			15	0	22.00	21.71	21.68	21.85
		16QAM	1	0	23.00	21.64	22.12	22.07
			1	7	23.00	21.95	22.39	22.27
			1	14	23.00	21.60	22.07	22.02
			8	0	21.00	20.72	20.70	20.91
			8	4	21.00	20.75	20.72	20.89
			8	7	21.00	20.74	20.68	20.85
			15	0	21.00	20.77	20.68	20.79
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5

Band	Band	Modulation	RB	Tune-up	Channel/Frequency(MHz)		
Band	Band Width	Modulation	RB Configuration	RB Offset	20000/1715	20175/1732.5	20350/1750
LTE Band 4	5MHz	QPSK	1	0	23.00	22.70	22.65
			1	12	23.00	23.00	23.00
			1	24	23.00	22.66	22.62
			12	0	22.00	21.71	21.63
			12	6	22.00	21.77	21.75
			12	11	22.00	21.70	21.66
			25	0	22.00	21.72	21.66
		16QAM	1	0	23.00	22.17	21.94
			1	12	23.00	22.55	22.28
			1	24	23.00	22.16	21.95
			12	0	21.00	20.76	20.62
			12	6	21.00	20.78	20.65
			12	11	21.00	20.74	20.62
			25	0	21.00	20.71	20.69
LTE Band 4	10MHz	QPSK	1	0	23.00	22.73	22.69
			1	24	23.00	22.84	22.76
			1	49	23.00	22.79	22.67
			25	0	22.00	21.78	21.73
			25	12	22.00	21.77	21.68
			25	24	22.00	21.81	21.73
			50	0	22.00	21.82	21.73
		16QAM	1	0	23.00	22.18	21.86
			1	24	23.00	22.24	21.99
			1	49	23.00	22.18	21.84
			25	0	21.00	20.84	20.73
			25	12	21.00	20.77	20.71
			25	24	21.00	20.89	20.75
			50	0	21.00	20.86	20.77
LTE Band 4	15MHz	QPSK	1	0	23.00	22.59	22.62
			1	37	23.00	22.97	23.00
			1	74	23.00	22.58	22.62
			36	0	22.00	21.87	21.71
			36	18	22.00	21.85	21.78
			36	37	22.00	21.85	21.85
			75	0	22.00	21.89	21.76
		16QAM	1	0	23.00	21.80	22.02
			1	37	23.00	22.18	22.42
			1	74	23.00	21.75	22.00
			36	0	21.00	20.84	20.74
			36	18	21.00	20.77	20.81
			36	37	21.00	20.81	20.77
			75	0	21.00	20.87	20.76
Band	Band	Modulation	RB	Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		RB Size	RB Offset	20050/1720	20175/1732.5	20300/1745
			RB Size	RB Offset					
LTE Band 4	20MHz	QPSK	1	0	23.00	22.48	22.46	22.38	
			1	49	23.00	22.91	22.82	22.96	
			1	99	23.00	22.46	22.47	22.60	
			50	0	22.00	21.79	21.67	21.79	
			50	24	22.00	21.77	21.73	21.82	
			50	49	22.00	21.77	21.76	21.85	
			100	0	22.00	21.83	21.73	21.82	
		16QAM	1	0	23.00	21.79	21.77	21.64	
			1	49	23.00	22.22	22.08	22.14	
			1	99	23.00	21.72	21.73	21.84	
			50	0	21.00	20.89	20.66	20.83	
			50	24	21.00	20.83	20.74	20.90	
			50	49	21.00	20.90	20.74	20.91	
			100	0	21.00	20.87	20.76	20.84	

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	23.00	21.37	22.10	22.09
			1	2	23.00	22.48	22.24	22.27
			1	5	23.00	22.32	22.05	22.09
			3	0	23.00	22.37	22.20	22.16
			3	1	23.00	22.39	22.21	22.20
			3	2	23.00	22.37	22.19	22.19
			6	0	22.00	21.36	21.14	21.13
		16QAM	1	0	22.00	21.55	21.33	20.98
			1	2	22.00	21.64	21.49	21.16
			1	5	22.00	21.56	21.27	20.95
			3	0	22.00	21.57	21.41	21.28
			3	1	22.00	21.64	21.43	21.21
			3	2	22.00	21.54	21.40	21.32
			6	0	21.00	20.55	20.33	20.33
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.00	22.33	22.16	22.12
			1	7	23.00	22.72	22.31	22.37
			1	14	23.00	22.40	22.08	22.10
			8	0	22.00	21.30	21.13	21.12
			8	4	22.00	21.31	21.15	21.15
			8	7	22.00	21.36	21.11	21.12
			15	0	22.00	21.31	21.11	21.10
		16QAM	1	0	22.00	21.27	21.60	21.35
			1	7	22.00	21.56	21.72	21.62
			1	14	22.00	21.27	21.52	21.27
			8	0	21.00	20.32	20.17	20.14

			8	4	21.00	20.30	20.20	20.17
			8	7	21.00	20.33	20.14	20.12
			15	0	21.00	20.37	20.18	20.07
Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)			
			RB Size		20425/826.5	20525/836.5	20625/846.5	
			Offset					
LTE Band 5	5MHz	QPSK	1	0	23.00	22.24	22.07	22.02
			1	12	23.00	22.58	22.44	22.43
			1	24	23.00	22.18	21.99	21.96
			12	0	22.00	21.23	21.20	21.02
			12	6	22.00	21.35	21.22	21.14
			12	11	22.00	21.36	21.00	21.14
			25	0	22.00	21.36	21.11	21.10
		16QAM	1	0	23.00	21.78	21.40	21.35
			1	12	23.00	22.30	21.70	21.88
			1	24	23.00	21.79	21.29	21.34
			12	0	21.00	20.28	20.11	20.03
			12	6	21.00	20.37	20.14	20.17
			12	11	21.00	20.35	19.97	20.15
			25	0	21.00	20.33	20.24	20.05
Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)			
			RB Size		20450/829	20525/836.5	20600/844	
			Offset					
LTE Band 5	10MHz	QPSK	1	0	23.00	22.34	22.16	22.05
			1	24	23.00	22.05	22.21	22.14
			1	49	23.00	22.21	22.12	22.08
			25	0	22.00	21.23	21.27	21.19
			25	12	22.00	21.29	21.15	21.11
			25	24	22.00	21.40	21.03	21.24
			50	0	22.00	21.34	21.18	21.22
		16QAM	1	0	22.00	21.21	21.62	21.27
			1	24	22.00	21.32	21.61	21.38
			1	49	22.00	21.06	21.50	21.22
			25	0	21.00	20.24	20.29	20.21
			25	12	21.00	20.28	20.15	20.10
			25	24	21.00	20.41	20.06	20.28
			50	0	21.00	20.35	20.23	20.26

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	24.00	22.91	23.11	23.36
			1	12	24.00	23.29	23.63	23.76
			1	24	24.00	23.00	23.19	23.39
			12	0	23.00	21.96	22.27	22.51
			12	6	23.00	22.05	22.34	22.54
			12	11	23.00	22.06	22.27	22.48
			25	0	23.00	21.98	22.30	22.46
		16QAM	1	0	24.00	22.20	22.50	22.80

			1	12	24.00	22.59	23.01	23.20
			1	24	24.00	22.24	22.46	22.82
			12	0	22.00	20.92	21.24	21.44
			12	6	22.00	20.98	21.36	21.52
			12	11	22.00	20.96	21.30	21.47
			25	0	22.00	20.98	21.24	21.47
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	24.00	22.94	23.22	23.41
			1	24	24.00	23.12	23.38	23.56
			1	49	24.00	23.05	23.26	23.47
			25	0	23.00	22.00	22.33	22.49
			25	12	23.00	22.05	22.28	22.42
			25	24	23.00	22.15	22.36	22.46
			50	0	23.00	22.06	22.33	22.44
		16QAM	1	0	23.00	22.33	22.40	22.28
			1	24	23.00	22.48	22.51	22.40
			1	49	23.00	22.45	22.45	22.29
			25	0	22.00	21.02	21.31	21.49
			25	12	22.00	21.05	21.29	21.44
			25	24	22.00	21.14	21.37	21.44
			50	0	22.00	21.04	21.34	21.47
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	24.00	22.92	23.09	23.28
			1	37	24.00	23.39	23.54	23.60
			1	74	24.00	23.03	23.15	23.35
			36	0	23.00	22.04	22.31	22.50
			36	18	23.00	22.13	22.37	22.54
			36	37	23.00	22.19	22.41	22.54
			75	0	23.00	22.14	22.34	22.54
		16QAM	1	0	24.00	22.05	22.22	22.64
			1	37	24.00	22.46	22.69	23.05
			1	74	24.00	22.20	22.29	22.71
			36	0	22.00	21.03	21.22	21.47
			36	18	22.00	21.14	21.31	21.53
			36	37	22.00	21.18	21.32	21.48
			75	0	22.00	21.10	21.33	21.49
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	24.00	22.68	22.97	23.13
			1	49	24.00	23.20	23.42	23.57
			1	99	24.00	22.92	23.09	23.25
			50	0	23.00	22.02	22.27	22.44
			50	24	23.00	22.11	22.29	22.30

			50	49	23.00	22.12	22.33	22.40
			100	0	23.00	22.08	22.30	22.18
16QAM			1	0	23.00	21.98	22.18	22.46
			1	49	23.00	22.49	22.63	22.40
			1	99	23.00	22.23	22.31	22.32
			50	0	22.00	21.00	21.20	21.36
			50	24	22.00	21.18	21.28	21.46
			50	49	22.00	21.16	21.33	21.42
			100	0	22.00	21.14	21.30	21.43

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.00	22.09	22.09	22.09
			1	2	23.00	22.21	22.18	22.25
			1	5	23.00	22.10	22.13	22.10
			3	0	23.00	22.23	22.18	22.21
			3	1	23.00	22.21	22.12	22.20
			3	2	23.00	22.20	22.17	22.22
			6	0	22.00	21.16	21.12	21.11
		16QAM	1	0	22.00	21.37	21.00	21.30
			1	2	22.00	21.44	21.16	21.49
			1	5	22.00	21.38	20.99	21.34
			3	0	22.00	21.45	21.34	21.40
			3	1	22.00	21.47	21.33	21.42
			3	2	22.00	21.45	21.39	21.38
			6	0	21.00	20.36	20.33	20.34
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.00	22.14	22.11	22.19
			1	7	23.00	22.38	22.36	22.51
			1	14	23.00	22.10	22.08	22.16
			8	0	22.00	21.15	21.09	21.16
			8	4	22.00	21.15	21.16	21.19
			8	7	22.00	21.14	21.14	21.14
			15	0	22.00	21.13	21.09	21.15
		16QAM	1	0	22.00	21.57	21.36	21.11
			1	7	22.00	21.88	21.64	21.40
			1	14	22.00	21.57	21.33	21.08
			8	0	21.00	20.19	20.16	20.18
			8	4	21.00	20.22	20.20	20.16
			8	7	21.00	20.16	20.14	20.20
			15	0	21.00	20.20	20.08	20.20
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band	5MHz	QPSK	1	0	23.00	22.07	22.05	22.03
			1	12	23.00	22.41	22.20	22.47

12	10MHz	QPSK	1	24	23.00	22.11	22.06	22.07
			12	0	22.00	21.26	21.12	21.15
			12	6	22.00	21.20	21.18	21.23
			12	11	22.00	21.20	21.12	21.21
			25	0	22.00	21.25	21.14	21.23
		16QAM	1	0	22.00	21.68	21.45	21.42
			1	12	22.00	21.95	21.79	21.78
			1	24	22.00	21.72	21.43	21.46
			12	0	21.00	20.28	20.08	20.23
			12	6	21.00	20.22	20.16	20.26
			12	11	21.00	20.21	20.09	20.25
			25	0	21.00	20.25	20.19	20.23
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.00	22.12	22.14	22.11
			1	24	23.00	22.28	22.20	22.25
			1	49	23.00	22.18	22.16	22.13
			25	0	22.00	21.26	21.06	21.30
			25	12	22.00	21.22	21.22	21.23
			25	24	22.00	21.34	21.12	21.33
			50	0	22.00	21.29	21.11	21.34
		16QAM	1	0	22.00	21.08	21.59	21.32
			1	24	22.00	21.16	21.69	21.42
			1	49	22.00	21.09	21.64	21.37
			25	0	21.00	20.26	20.13	20.29
			25	12	21.00	20.24	20.27	20.26
			25	24	21.00	20.34	20.16	20.34
			50	0	21.00	20.29	20.13	20.40

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.00	22.16	22.16	22.13
			1	12	23.00	22.46	22.48	22.56
			1	24	23.00	22.13	22.15	22.17
			12	0	22.00	21.17	21.23	21.28
			12	6	22.00	21.29	21.25	21.33
			12	11	22.00	21.22	21.15	21.34
			25	0	22.00	21.27	21.24	21.34
		16QAM	1	0	23.00	21.56	21.77	21.49
			1	12	23.00	21.96	22.13	21.98
			1	24	23.00	21.48	21.75	21.53
			12	0	21.00	20.19	20.26	20.21
			12	6	21.00	20.26	20.33	20.29
			12	11	21.00	20.28	20.20	20.30
			25	0	21.00	20.24	20.22	20.36
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.00	22.24	22.24	22.18
			1	24	23.00	22.27	22.30	22.24
			1	49	23.00	22.24	22.28	22.24
			25	0	22.00	21.27	21.29	21.35
			25	12	22.00	21.28	21.28	21.33
			25	24	22.00	21.24	21.32	21.40
			50	0	22.00	21.25	21.29	21.40
		16QAM	1	0	22.00	21.45	21.16	21.70
			1	24	22.00	21.60	21.26	21.72
			1	49	22.00	21.50	21.20	21.69
			25	0	21.00	20.28	20.33	20.41
			25	12	21.00	20.31	20.27	20.33
			25	24	21.00	20.18	20.30	20.41
			50	0	21.00	20.28	20.29	20.40

7.4. WLAN & Bluetooth Output Power

7.4.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11b	1	2412	13.00	12.29
	6	2437	13.00	12.51
	11	2462	13.00	12.18
802.11g	1	2412	13.00	12.24
	6	2437	13.00	12.84
	11	2462	13.00	12.83
802.11n HT20	1	2412	13.00	12.13
	6	2437	13.00	12.66
	11	2462	13.00	12.99
802.11n HT40	3	2422	13.00	11.35
	6	2437	13.00	12.04
	9	2452	13.00	12.00

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	12.00	11.12
	40	5200	12.00	11.93
	48	5240	12.00	11.93
802.11n (HT20)	36	5180	12.00	10.93
	40	5200	12.00	11.86
	48	5240	12.00	11.87
802.11n	38	5190	13.00	11.53

(HT40)	46	5230	13.00	12.42
802.11ac (VHT20)	36	5180	12.00	11.00
	40	5200	12.00	11.88
	48	5240	12.00	12.00
802.11ac (VHT40)	38	5190	13.00	11.41
	46	5230	13.00	12.37
802.11ac (VHT80)	42	5210	12.00	11.99

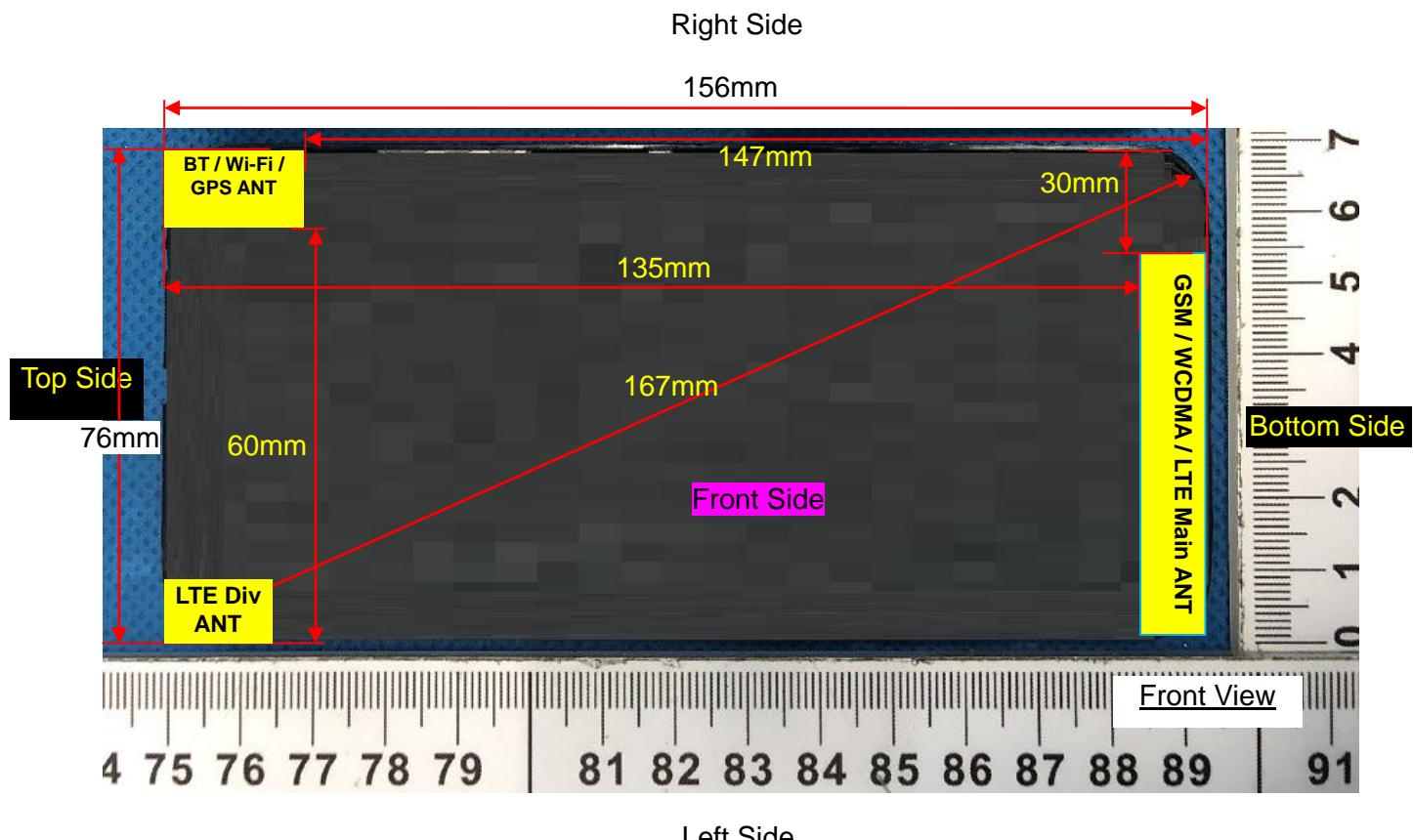
NOTE: Power measurement results of WLAN 5.2G.

7.4.2. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
0CH	7.000	6.107	5.306	5.315	
39CH	8.000	7.861	6.749	7.198	
78CH	7.000	6.136	5.769	6.297	

BLE	Channel	Data Rates 1M		Data Rates 2M	
		Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
0CH	-5.000	-5.686	0.000	-0.762	
19CH	-5.000	-5.291	0.000	-0.139	
39CH	-7.000	-7.088	0.000	-0.848	

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	≤ 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	Yes	Yes	Yes	NO	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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$

≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

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

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

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	8.00	6.31	5	2.480	1.99	3.0	NO

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 ≤ 50 mm, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

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

Mode	Position	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	8.00	6.31	5	2.480	7.5	0.265
Bluetooth	Body	8.00	6.31	10	2.480	7.5	0.132
Bluetooth	Hotspot	8.00	6.31	10	2.480	7.5	0.132

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement results

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	189/836.4	GPRS(GMSK 4TS)	0.639	0.459	4.21	29.39	30.00	0.735	2020/11/15

Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.332	0.234	3.07	29.39	30.00	0.382	2020/11/15
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.597	0.427	3.95	29.39	30.00	0.687	2020/11/15
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.301	0.212	-1.90	29.39	30.00	0.346	2020/11/15

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
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 4TS)	0.354	0.255	1.74	29.39	30.00	0.407	2020/11/14
Back Side	189/836.4	GPRS(GMSK 4TS)	0.643	0.469	-1.14	29.39	30.00	0.740	2020/11/14

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
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 4TS)	0.354	0.255	1.74	29.39	30.00	0.407	2020/11/14
Back Side	189/836.4	GPRS(GMSK 4TS)	0.643	0.469	-1.14	29.39	30.00	0.740	2020/11/14
Left Side	189/836.4	GPRS(GMSK 4TS)	0.155	0.114	-1.91	29.39	30.00	0.178	2020/11/14
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.200	0.150	-0.57	29.39	30.00	0.230	2020/11/14

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
			1g	10g					
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.098	0.062	4.21	26.57	27.00	0.108	2020/11/11
Left Tilt 15	661/1880	GPRS(GMSK 4TS)	0.050	0.034	2.87	26.57	27.00	0.055	2020/11/11

Degree									
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.093	0.056	-0.84	26.57	27.00	0.103	2020/11/11
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.043	0.030	3.66	26.57	27.00	0.047	2020/11/11

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	661/1880	GPRS(GMSK 4TS)	0.548	0.290	3.78	26.57	27.00	0.605	2020/11/11
Back Side	661/1880	GPRS(GMSK 4TS)	0.956	0.513	-0.67	26.57	27.00	1.055	2020/11/11
Back Side	512/1850.2	GPRS(GMSK 4TS)	0.780	0.416	2.35	26.39	27.00	0.898	2020/11/11
Back Side	810/1909.8	GPRS(GMSK 4TS)	1.070	0.610	0.29	26.33	27.00	1.248	2020/11/11
Back Side Repeated	810/1909.8	GPRS(GMSK 4TS)	1.065	0.606	0.15	26.33	27.00	1.243	2020/11/11

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	661/1880	GPRS(GMSK 4TS)	0.548	0.290	3.78	26.57	27.00	0.605	2020/11/11
Back Side	661/1880	GPRS(GMSK 4TS)	0.956	0.513	-0.67	26.57	27.00	1.055	2020/11/11
Left Side	661/1880	GPRS(GMSK 4TS)	0.244	0.126	-1.19	26.57	27.00	0.269	2020/11/11
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.284	0.154	-1.96	26.57	27.00	0.314	2020/11/11
Back Side	512/1850.2	GPRS(GMSK 4TS)	0.780	0.416	2.35	26.39	27.00	0.898	2020/11/11
Back Side	810/1909.8	GPRS(GMSK 4TS)	1.070	0.610	0.29	26.33	27.00	1.248	2020/11/11
Back	810/1909.8	GPRS(GMSK)	1.065	0.606	0.15	26.33	27.00	1.243	2020/11/11

Side Repeated		4TS)						
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NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	9400/1880	RMC12.2K	0.134	0.085	1.05	23.61	24.00	0.147	2020/11/11
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.068	0.041	3.59	23.61	24.00	0.074	2020/11/11
Right Cheek	9400/1880	RMC12.2K	0.126	0.079	0.27	23.61	24.00	0.138	2020/11/11
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.057	0.032	-4.77	23.61	24.00	0.062	2020/11/11

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.610	0.320	3.51	23.61	24.00	0.667	2020/11/11
Back Side	9400/1880	RMC12.2K	0.985	0.513	-0.15	23.61	24.00	1.078	2020/11/11
Back Side	9262/1852.4	RMC12.2K	0.848	0.445	-2.59	23.87	24.00	0.874	2020/11/11
Back Side	9538/1907.6	RMC12.2K	1.016	0.573	-0.72	23.35	24.00	1.180	2020/11/11
Back Side Repeated	9538/1907.6	RMC12.2K	1.010	0.570	3.33	23.35	24.00	1.173	2020/11/11

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.610	0.320	3.51	23.61	24.00	0.667	2020/11/11
Back Side	9400/1880	RMC12.2K	0.985	0.513	-0.15	23.61	24.00	1.078	2020/11/11
Left Side	9400/1880	RMC12.2K	0.204	0.103	-1.33	23.61	24.00	0.223	2020/11/11
Bottom Side	9400/1880	RMC12.2K	0.293	0.157	-1.17	23.61	24.00	0.321	2020/11/11

Back Side	9262/1852.4	RMC12.2K	0.848	0.445	-2.59	23.87	24.00	0.874	2020/11/11
Back Side	9538/1907.6	RMC12.2K	1.016	0.573	-0.72	23.35	24.00	1.180	2020/11/11
Back Side Repeated	9538/1907.6	RMC12.2K	1.010	0.570	3.33	23.35	24.00	1.173	2020/11/11

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
			1g	10g					
Left Cheek	1413/1732.6	RMC12.2K	0.175	0.112	2.08	22.92	23.00	0.178	2020/11/15
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.090	0.062	-2.83	22.92	23.00	0.092	2020/11/15
Right Cheek	1413/1732.6	RMC12.2K	0.153	0.097	3.84	22.92	23.00	0.156	2020/11/15
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.082	0.054	1.78	22.92	23.00	0.084	2020/11/15

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
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.693	0.375	-0.19	22.92	23.00	0.706	2020/11/10
Back Side	1413/1732.6	RMC12.2K	1.120	0.618	-2.06	22.92	23.00	1.141	2020/11/10
Back Side	1312/1712.4	RMC12.2K	1.056	0.575	-0.29	22.97	23.00	1.063	2020/11/10
Back Side	1513/1752.6	RMC12.2K	1.130	0.617	1.26	23.00	23.00	1.130	2020/11/10
Back Side Repeated	1513/1752.6	RMC12.2K	1.125	0.614	0.27	23.00	23.00	1.125	2020/11/10

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
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.693	0.375	-0.19	22.92	23.00	0.706	2020/11/10
Back Side	1413/1732.6	RMC12.2K	1.120	0.618	-2.06	22.92	23.00	1.141	2020/11/10
Left Side	1413/1732.6	RMC12.2K	0.312	0.168	3.62	22.92	23.00	0.318	2020/11/10
Bottom Side	1413/1732.6	RMC12.2K	0.415	0.222	-0.42	22.92	23.00	0.423	2020/11/10

Back Side	1312/1712.4	RMC12.2K	1.056	0.575	-0.29	22.97	23.00	1.063	2020/11/10
Back Side	1513/1752.6	RMC12.2K	1.130	0.617	1.26	23.00	23.00	1.130	2020/11/10
Back Side Repeated	1513/1752.6	RMC12.2K	1.125	0.614	0.27	23.00	23.00	1.125	2020/11/10

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
			1g	10g					
Left Cheek	4182/836.4	RMC12.2K	0.283	0.210	-2.13	22.64	23.00	0.307	2020/11/15
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.168	0.120	4.48	22.64	23.00	0.183	2020/11/15
Right Cheek	4182/836.4	RMC12.2K	0.264	0.199	-4.10	22.64	23.00	0.287	2020/11/15
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.127	0.093	-2.06	22.64	23.00	0.138	2020/11/15

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
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.169	0.103	-3.92	22.64	23.00	0.184	2020/11/14
Back Side	4182/836.4	RMC12.2K	0.302	0.192	0.04	22.64	23.00	0.328	2020/11/14

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.169	0.103	-3.92	22.64	23.00	0.184	2020/11/14
Back Side	4182/836.4	RMC12.2K	0.302	0.192	0.04	22.64	23.00	0.328	2020/11/14
Left Side	4182/836.4	RMC12.2K	0.055	0.030	1.71	22.64	23.00	0.060	2020/11/14
Bottom Side	4182/836.4	RMC12.2K	0.088	0.058	0.50	22.65	23.00	0.095	2020/11/14

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of LTE Band 2

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date
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Position of Head	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
1RB									
Left Cheek	18900/1880	20M QPSK(1,49)	0.135	0.083	-2.24	23.19	24.00	0.163	2020/11/11
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.068	0.041	2.01	23.19	24.00	0.082	2020/11/11
Right Cheek	18900/1880	20M QPSK(1,49)	0.117	0.067	-2.77	23.19	24.00	0.141	2020/11/11
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.053	0.032	4.49	23.19	24.00	0.064	2020/11/11
50%RB									
Left Cheek	18900/1880	1.4M QPSK(3,1)	0.126	0.076	3.63	23.12	24.00	0.154	2020/11/11
Left Tilt 15 Degree	18900/1880	1.4M QPSK(3,1)	0.062	0.038	-3.65	23.12	24.00	0.076	2020/11/11
Right Cheek	18900/1880	1.4M QPSK(3,1)	0.104	0.059	-0.38	23.12	24.00	0.127	2020/11/11
Right Tilt 15 Degree	18900/1880	1.4M QPSK(3,1)	0.048	0.030	-2.60	23.12	24.00	0.059	2020/11/11

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
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.503	0.272	0.52	23.19	24.00	0.606	2020/11/11
Back Side	18900/1880	20M QPSK(1,49)	0.918	0.488	-0.52	23.19	24.00	1.106	2020/11/11
Back Side	18700/1860	20M QPSK(1,49)	0.872	0.468	-1.00	23.26	24.00	1.034	2020/11/11
Back Side	19100/1900	20M QPSK(1,49)	0.965	0.511	-1.32	23.11	24.00	1.184	2020/11/11
Back Side	19100/1900	20M	0.961	0.509	-1.11	23.11	24.00	1.180	2020/11/11

Repeated		QPSK(1,49)							
50%RB									
Front Side	18900/1880	1.4M QPSK(3,1)	0.288	0.140	-1.27	23.12	24.00	0.353	2020/11/11
Back Side	18900/1880	1.4M QPSK(3,1)	0.504	0.277	-3.30	23.12	24.00	0.617	2020/11/11
100%RB									
Back Side	18900/1880	20M QPSK(100,0)	0.255	0.129	0.34	22.16	23.00	0.309	2020/11/11

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.503	0.272	0.52	23.19	24.00	0.606	2020/11/11
Back Side	18900/1880	20M QPSK(1,49)	0.918	0.488	-0.52	23.19	24.00	1.106	2020/11/11
Left Side	18900/1880	20M QPSK(1,49)	0.170	0.086	0.50	23.19	24.00	0.205	2020/11/11
Bottom Side	18900/1880	20M QPSK(1,49)	0.255	0.131	2.90	23.19	24.00	0.307	2020/11/11
Back Side	18700/1860	20M QPSK(1,49)	0.872	0.468	-1.00	23.26	24.00	1.034	2020/11/11
Back Side	19100/1900	20M QPSK(1,49)	0.965	0.511	-1.32	23.11	24.00	1.184	2020/11/11
Back Side Repeated	19100/1900	20M QPSK(1,49)	0.961	0.509	-1.11	23.11	24.00	1.180	2020/11/11
50%RB									
Front Side	18900/1880	1.4M QPSK(3,1)	0.288	0.140	-1.27	23.12	24.00	0.353	2020/11/11
Back Side	18900/1880	1.4M QPSK(3,1)	0.504	0.277	-3.30	23.12	24.00	0.617	2020/11/11
Left Side	18900/1880	1.4M QPSK(3,1)	0.101	0.049	-3.41	23.12	24.00	0.124	2020/11/11
Bottom	18900/1880	1.4M	0.148	0.075	4.99	23.12	24.00	0.181	2020/11/11

Side		QPSK(3,1)							
100%RB									
Back Side	18900/1880	20M QPSK(100,0)	0.255	0.129	0.34	22.16	23.00	0.309	2020/11/11

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.151	0.097	-3.25	22.82	23.00	0.157	2020/11/15
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.083	0.049	0.56	22.82	23.00	0.087	2020/11/15
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.134	0.085	-4.41	22.82	23.00	0.140	2020/11/15
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.062	0.038	0.79	22.82	23.00	0.065	2020/11/15
50%RB									
Left Cheek	20175/1732.5	1.4M QPSK(3,0)	0.139	0.087	3.48	22.67	23.00	0.150	2020/11/15
Left Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,0)	0.074	0.046	-2.50	22.67	23.00	0.080	2020/11/15
Right Cheek	20175/1732.5	1.4M QPSK(3,0)	0.121	0.074	1.33	22.67	23.00	0.131	2020/11/15
Right Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,0)	0.053	0.034	-3.82	22.67	23.00	0.057	2020/11/15

NOTE: Head SAR test results of LTE Band 4

Front Side	20175/1732.5	20M QPSK(1,49)	0.598	0.336	-0.91	22.82	23.00	0.623	2020/11/10
Back Side	20175/1732.5	20M QPSK(1,49)	1.029	0.573	-1.08	22.82	23.00	1.073	2020/11/10
Back Side Repeated	20175/1732.5	20M QPSK(1,49)	1.025	0.570	-1.23	22.82	23.00	1.068	2020/11/10
Back Side	20050/1720	20M QPSK(1,49)	1.012	0.566	-1.23	22.91	23.00	1.033	2020/11/10
Back Side	20300/1745	20M QPSK(1,49)	1.027	0.572	-0.63	22.96	23.00	1.037	2020/11/10
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,0)	0.341	0.193	-1.37	22.67	23.00	0.368	2020/11/10
Back Side	20175/1732.5	1.4M QPSK(3,0)	0.603	0.343	-4.66	22.67	23.00	0.651	2020/11/10
100%RB									
Back Side	20175/1732.5	20M QPSK (100,0)	0.330	0.187	-0.24	21.73	22.00	0.351	2020/11/10

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20175/1732.5	20M QPSK(1,49)	0.598	0.336	-0.91	22.82	23.00	0.623	2020/11/10
Back Side	20175/1732.5	20M QPSK(1,49)	1.029	0.573	-1.08	22.82	23.00	1.073	2020/11/10
Back Side Repeated	20175/1732.5	20M QPSK(1,49)	1.025	0.570	-1.23	22.82	23.00	1.068	2020/11/10
Left Side	20175/1732.5	20M QPSK(1,49)	0.235	0.127	-2.02	22.82	23.00	0.245	2020/11/10
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.302	0.164	-2.22	22.82	23.00	0.315	2020/11/10
Back Side	20050/1720	20M QPSK(1,49)	1.012	0.566	-1.23	22.91	23.00	1.033	2020/11/10
Back	20300/1745	20M	1.027	0.572	-0.63	22.96	23.00	1.037	2020/11/10

Side		QPSK(1,49)							
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,0)	0.341	0.193	-1.37	22.67	23.00	0.368	2020/11/10
Back Side	20175/1732.5	1.4M QPSK(3,0)	0.603	0.343	-4.66	22.67	23.00	0.651	2020/11/10
Left Side	20175/1732.5	1.4M QPSK(3,0)	0.139	0.069	-2.52	22.67	23.00	0.150	2020/11/10
Bottom Side	20175/1732.5	1.4M QPSK(3,0)	0.168	0.098	1.98	22.67	23.00	0.181	2020/11/10
100%RB									
Back Side	20175/1732.5	20M QPSK(100,0)	0.330	0.187	-0.24	21.73	22.00	0.351	2020/11/10

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	20525/836.5	10M QPSK(1,0)	0.254	0.188	1.20	22.16	23.00	0.308	2020/11/15
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.135	0.103	-4.86	22.16	23.00	0.164	2020/11/15
Right Cheek	20525/836.5	10M QPSK(1,0)	0.237	0.171	-4.95	22.16	23.00	0.288	2020/11/15
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.122	0.088	0.60	22.16	23.00	0.148	2020/11/15
50%RB									
Left Cheek	20525/836.5	1.4M QPSK(3,1)	0.217	0.174	3.39	22.21	23.00	0.260	2020/11/15
Left Tilt 15 Degree	20525/836.5	1.4M QPSK(3,1)	0.121	0.089	-4.40	22.21	23.00	0.145	2020/11/15
Right Cheek	20525/836.5	1.4M QPSK(3,1)	0.207	0.150	-0.65	22.21	23.00	0.248	2020/11/15
Right	20525/836.5	1.4M	0.112	0.079	-3.35	22.21	23.00	0.134	2020/11/15

Tilt 15 Degree		QPSK(3,1)						
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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
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,0)	0.144	0.110	-2.48	22.16	23.00	0.175	2020/11/14
Back Side	20525/836.5	10M QPSK(1,0)	0.230	0.174	0.87	22.16	23.00	0.279	2020/11/14
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,1)	0.127	0.095	2.67	22.21	23.00	0.152	2020/11/14
Back Side	20525/836.5	1.4M QPSK(3,1)	0.213	0.162	-4.87	22.21	23.00	0.255	2020/11/14

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
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,0)	0.144	0.110	-2.48	22.16	23.00	0.175	2020/11/14
Back Side	20525/836.5	10M QPSK(1,0)	0.230	0.174	0.87	22.16	23.00	0.279	2020/11/14
Left Side	20525/836.5	10M QPSK(1,0)	0.050	0.042	0.23	22.16	23.00	0.061	2020/11/14
Bottom Side	20525/836.5	10M QPSK(1,0)	0.078	0.056	-2.93	22.16	23.00	0.095	2020/11/14
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,1)	0.127	0.095	2.67	22.21	23.00	0.152	2020/11/14
Back Side	20525/836.5	1.4M QPSK(3,1)	0.213	0.162	-4.87	22.21	23.00	0.255	2020/11/14
Left	20525/836.5	1.4M	0.043	0.038	0.41	22.21	23.00	0.052	2020/11/14

Side		QPSK(3,1)							
Bottom Side	20525/836.5	1.4M QPSK(3,1)	0.072	0.050	0.25	22.21	23.00	0.086	2020/11/14

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	21100/2535	20M QPSK(1,49)	0.265	0.150	-1.48	23.42	24.00	0.303	2020/11/16
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.139	0.081	4.51	23.42	24.00	0.159	2020/11/16
Right Cheek	21100/2535	20M QPSK(1,49)	0.243	0.140	4.27	23.42	24.00	0.278	2020/11/16
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.127	0.077	-4.66	23.42	24.00	0.145	2020/11/16
50%RB									
Left Cheek	21100/2535	20M QPSK(50,0)	0.244	0.135	3.92	22.27	23.00	0.289	2020/11/16
Left Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.121	0.075	-1.51	22.27	23.00	0.143	2020/11/16
Right Cheek	21100/2535	20M QPSK(50,0)	0.229	0.124	-0.64	22.27	23.00	0.271	2020/11/16
Right Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.110	0.068	1.61	22.27	23.00	0.130	2020/11/16

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
			1g	10g					
1RB									
Front Side	21100/2535	20M	0.581	0.274	-2.83	23.42	24.00	0.664	2020/11/07

		QPSK(1,49)							
Back Side	21100/2535	20M QPSK(1,49)	0.994	0.475	-0.03	23.42	24.00	1.136	2020/11/07
Back Side Repeated	21100/2535	20M QPSK(1,49)	0.990	0.471	1.25	23.42	24.00	1.131	2020/11/07
Back Side	20850/2510	20M QPSK(1,49)	0.958	0.461	-1.94	23.20	24.00	1.152	2020/11/07
Back Side	21350/2560	20M QPSK(1,49)	0.977	0.463	-1.98	23.57	24.00	1.079	2020/11/07
50%RB									
Front Side	21100/2535	20M QPSK(50,0)	0.294	0.140	0.40	22.27	23.00	0.348	2020/11/07
Back Side	21100/2535	20M QPSK(50,0)	0.584	0.240	3.61	22.27	23.00	0.691	2020/11/07
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.308	0.149	0.99	22.30	23.00	0.362	2020/11/07

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

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
			1g	10g					
1RB									
Front Side	21100/2535	20M QPSK(1,49)	0.581	0.274	-2.83	23.42	24.00	0.664	2020/11/07
Back Side	21100/2535	20M QPSK(1,49)	0.994	0.475	-0.03	23.42	24.00	1.136	2020/11/07
Back Side Repeated	21100/2535	20M QPSK(1,49)	0.990	0.471	1.25	23.42	24.00	1.131	2020/11/07
Left Side	21100/2535	20M QPSK(1,49)	0.199	0.095	-0.86	23.42	24.00	0.227	2020/11/07
Bottom Side	21100/2535	20M QPSK(1,49)	0.287	0.135	-1.22	23.42	24.00	0.328	2020/11/07
Back Side	20850/2510	20M QPSK(1,49)	0.958	0.461	-1.94	23.20	24.00	1.152	2020/11/07
Back Side	21350/2560	20M QPSK(1,49)	0.977	0.463	-1.98	23.57	24.00	1.079	2020/11/07

50%RB									
Front Side	21100/2535	20M QPSK(50,0)	0.294	0.140	0.40	22.27	23.00	0.348	2020/11/07
Back Side	21100/2535	20M QPSK(50,0)	0.584	0.240	3.61	22.27	23.00	0.691	2020/11/07
Left Side	21100/2535	20M QPSK(50,0)	0.119	0.055	-2.07	22.27	23.00	0.141	2020/11/07
Bottom Side	21100/2535	20M QPSK(50,0)	0.159	0.080	-1.26	22.27	23.00	0.188	2020/11/07
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.308	0.149	0.99	22.30	23.00	0.362	2020/11/07

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.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	23095/707.5	10M QPSK(1,24)	0.187	0.149	1.29	22.20	23.00	0.225	2020/11/13
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.100	0.075	3.23	22.20	23.00	0.120	2020/11/13
Right Cheek	23095/707.5	10M QPSK(1,24)	0.172	0.133	-3.93	22.20	23.00	0.207	2020/11/13
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.078	0.059	-3.22	22.20	23.00	0.094	2020/11/13
50%RB									
Left Cheek	23095/707.5	1.4M QPSK(3,0)	0.166	0.139	3.34	22.18	23.00	0.200	2020/11/13
Left Tilt 15 Degree	23095/707.5	1.4M QPSK(3,0)	0.086	0.066	-2.08	22.18	23.00	0.104	2020/11/13
Right Cheek	23095/707.5	1.4M QPSK(3,0)	0.163	0.118	0.78	22.18	23.00	0.197	2020/11/13
Right Tilt 15	23095/707.5	1.4M QPSK(3,0)	0.067	0.055	-4.43	22.18	23.00	0.081	2020/11/13

Degree								
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NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,24)	0.173	0.136	3.36	22.20	23.00	0.208	2020/11/13
Back Side	23095/707.5	10M QPSK(1,24)	0.289	0.228	-0.22	22.20	23.00	0.347	2020/11/13
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,0)	0.160	0.119	4.40	22.18	23.00	0.193	2020/11/13
Back Side	23095/707.5	1.4M QPSK(3,0)	0.268	0.209	1.04	22.18	23.00	0.324	2020/11/13

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,24)	0.173	0.136	3.36	22.20	23.00	0.208	2020/11/13
Back Side	23095/707.5	10M QPSK(1,24)	0.289	0.228	-0.22	22.20	23.00	0.347	2020/11/13
Left Side	23095/707.5	10M QPSK(1,24)	0.054	0.042	-2.54	22.20	23.00	0.065	2020/11/13
Bottom Side	23095/707.5	10M QPSK(1,24)	0.084	0.063	-1.76	22.20	23.00	0.101	2020/11/13
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,0)	0.160	0.119	4.40	22.18	23.00	0.193	2020/11/13
Back Side	23095/707.5	1.4M QPSK(3,0)	0.268	0.209	1.04	22.18	23.00	0.324	2020/11/13
Left Side	23095/707.5	1.4M QPSK(3,0)	0.051	0.039	-3.81	22.18	23.00	0.062	2020/11/13

Bottom Side	23095/707.5	1.4M QPSK(3,0)	0.074	0.056	-4.36	22.18	23.00	0.089	2020/11/13
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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.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	23790/710	10M QPSK(1,24)	0.188	0.148	1.38	22.30	23.00	0.221	2020/11/13
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.099	0.078	3.18	22.30	23.00	0.116	2020/11/13
Right Cheek	23790/710	10M QPSK(1,24)	0.175	0.135	2.53	22.30	23.00	0.206	2020/11/13
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.083	0.068	1.39	22.30	23.00	0.098	2020/11/13
50%RB									
Left Cheek	23790/710	10M QPSK(25,24)	0.161	0.138	2.16	21.32	22.00	0.188	2020/11/13
Left Tilt 15 Degree	23790/710	10M QPSK(25,24)	0.085	0.073	-0.49	21.32	22.00	0.099	2020/11/13
Right Cheek	23790/710	10M QPSK(25,24)	0.152	0.128	-4.39	21.32	22.00	0.178	2020/11/13
Right Tilt 15 Degree	23790/710	10M QPSK(25,24)	0.073	0.059	-3.13	21.32	22.00	0.085	2020/11/13

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,24)	0.162	0.123	-2.76	22.30	23.00	0.190	2020/11/13

Back Side	23790/710	10M QPSK(1,24)	0.290	0.228	-0.31	22.30	23.00	0.341	2020/11/13
50%RB									
Front Side	23790/710	10M QPSK(25,24)	0.089	0.067	-0.64	21.32	22.00	0.104	2020/11/13
Back Side	23790/710	10M QPSK(25,24)	0.159	0.128	0.56	21.32	22.00	0.186	2020/11/13

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,24)	0.162	0.123	-2.76	22.30	23.00	0.190	2020/11/13
Back Side	23790/710	10M QPSK(1,24)	0.290	0.228	-0.31	22.30	23.00	0.341	2020/11/13
Left Side	23790/710	10M QPSK(1,24)	0.077	0.060	-2.08	22.30	23.00	0.090	2020/11/13
Bottom Side	23790/710	10M QPSK(1,24)	0.102	0.084	-3.54	22.30	23.00	0.120	2020/11/13
50%RB									
Front Side	23790/710	10M QPSK(25,24)	0.089	0.067	-0.64	21.32	22.00	0.104	2020/11/13
Back Side	23790/710	10M QPSK(25,24)	0.159	0.128	0.56	21.32	22.00	0.186	2020/11/13
Left Side	23790/710	10M QPSK(25,24)	0.039	0.035	1.67	21.32	22.00	0.046	2020/11/13
Bottom Side	23790/710	10M QPSK(25,24)	0.060	0.050	-1.93	21.32	22.00	0.070	2020/11/13

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. SAR measurement Result of WLAN 2.4G

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
			1g	10g					

Left Cheek	6/2437	802.11 b	0.378	0.188	-1.10	12.51	13.00	0.423	2020/11/12
Left Tilt 15 Degree	6/2437	802.11 b	0.203	0.098	1.50	12.51	13.00	0.227	2020/11/12
Right Cheek	6/2437	802.11 b	0.329	0.166	3.72	12.51	13.00	0.368	2020/11/12
Right Tilt 15 Degree	6/2437	802.11 b	0.160	0.075	-1.51	12.51	13.00	0.179	2020/11/12

NOTE: Head SAR test results of WLAN 2.4G

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
			1g	10g					
Front Side	6/2437	802.11 b	0.198	0.102	-2.04	12.51	13.00	0.222	2020/11/12
Back Side	6/2437	802.11 b	0.308	0.160	1.06	12.51	13.00	0.345	2020/11/12

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

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
			1g	10g					
Front Side	6/2437	802.11 b	0.198	0.102	-2.04	12.51	13.00	0.222	2020/11/12
Back Side	6/2437	802.11 b	0.308	0.160	1.06	12.51	13.00	0.345	2020/11/12
Right Side	6/2437	802.11 b	0.072	0.035	0.41	12.51	13.00	0.081	2020/11/12
Top Side	6/2437	802.11 b	0.095	0.055	-4.55	12.51	13.00	0.106	2020/11/12

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.13. SAR measurement Result of WLAN 5.2G

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
			1g	10g					
Left Cheek	38/5190	802.11n HT40	0.405	0.164	0.35	11.53	13.00	0.568	2020/11/06
Left Tilt 15 Degree	38/5190	802.11n HT40	0.220	0.085	-2.56	11.53	13.00	0.309	2020/11/06
Right Cheek	38/5190	802.11n HT40	0.346	0.137	-1.22	11.53	13.00	0.485	2020/11/06
Right Tilt 15 Degree	38/5190	802.11n HT40	0.177	0.073	2.62	11.53	13.00	0.248	2020/11/06

NOTE: Head SAR test results of WLAN 5.2G

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
			1g	10g					
Front Side	38/5190	802.11n HT40	0.118	0.064	-1.51	11.53	13.00	0.166	2020/11/09
Back Side	38/5190	802.11n HT40	0.193	0.103	-1.85	11.53	13.00	0.271	2020/11/09

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

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
			1g	10g					
Front Side	38/5190	802.11n HT40	0.118	0.064	-1.51	11.53	13.00	0.166	2020/11/09
Back Side	38/5190	802.11n HT40	0.193	0.103	-1.85	11.53	13.00	0.271	2020/11/09
Right Side	38/5190	802.11n HT40	0.047	0.025	-3.35	11.53	13.00	0.066	2020/11/09
Top Side	38/5190	802.11n HT40	0.061	0.036	-4.65	11.53	13.00	0.086	2020/11/09

NOTE: Hotspot SAR test results of WLAN 5.2G

10.2. SAR Summation Scenario

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

- 1) Scalar SAR summation $< 1.6 \text{W/kg}$.
- 2) SPLSR = $(\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		$\Sigma 1\text{-g SAR (W/Kg)}$	SPLSR	Remark
		GSM 850	WLAN 2.4G			
Head	Left Cheek	0.735	0.423	1.158	N/A	N/A
	Left Tilt 15 Degree	0.382	0.227	0.609	N/A	N/A
	Right Cheek	0.687	0.368	1.055	N/A	N/A
	Right Tilt 15 Degree	0.346	0.179	0.525	N/A	N/A
Body-Worn	Front Side	0.407	0.222	0.629	N/A	N/A
	Back Side	0.740	0.345	1.085	N/A	N/A

Hotspot	Front Side	0.407	0.222	0.629	N/A	N/A
	Back Side	0.740	0.345	1.085	N/A	N/A
	Left Side	0.178	N/A	0.178	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.230	N/A	0.230	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 2.4G			
Head	Left Cheek	0.108	0.423	0.531	N/A	N/A
	Left Tilt 15 Degree	0.055	0.227	0.282	N/A	N/A
	Right Cheek	0.103	0.368	0.471	N/A	N/A
	Right Tilt 15 Degree	0.047	0.179	0.226	N/A	N/A
Body-Worn	Front Side	0.605	0.222	0.827	N/A	N/A
	Back Side	1.248	0.345	1.593	N/A	N/A
Hotspot	Front Side	0.605	0.222	0.827	N/A	N/A
	Back Side	1.248	0.345	1.593	N/A	N/A
	Left Side	0.269	N/A	0.269	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.314	N/A	0.314	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 2.4G			
Head	Left Cheek	0.147	0.423	0.570	N/A	N/A
	Left Tilt 15 Degree	0.074	0.227	0.301	N/A	N/A
	Right Cheek	0.138	0.368	0.506	N/A	N/A
	Right Tilt 15 Degree	0.062	0.179	0.241	N/A	N/A
Body-Worn	Front Side	0.667	0.222	0.889	N/A	N/A
	Back Side	1.180	0.345	1.525	N/A	N/A
Hotspot	Front Side	0.667	0.222	0.889	N/A	N/A
	Back Side	1.180	0.345	1.525	N/A	N/A
	Left Side	0.223	N/A	0.223	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.321	N/A	0.321	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 2.4G			
Head	Left Cheek	0.178	0.423	0.601	N/A	N/A
	Left Tilt 15 Degree	0.092	0.227	0.319	N/A	N/A
	Right Cheek	0.156	0.368	0.524	N/A	N/A
	Right Tilt 15 Degree	0.084	0.179	0.263	N/A	N/A
Body-Worn	Front Side	0.706	0.222	0.928	N/A	N/A
	Back Side	1.141	0.345	1.486	N/A	N/A
Hotspot	Front Side	0.706	0.222	0.928	N/A	N/A
	Back Side	1.141	0.345	1.486	N/A	N/A
	Left Side	0.318	N/A	0.318	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.423	N/A	0.423	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 2.4G			
Head	Left Cheek	0.307	0.423	0.730	N/A	N/A
	Left Tilt 15 Degree	0.183	0.227	0.410	N/A	N/A
	Right Cheek	0.287	0.368	0.655	N/A	N/A
	Right Tilt 15 Degree	0.138	0.179	0.317	N/A	N/A
Body-Worn	Front Side	0.184	0.222	0.406	N/A	N/A
	Back Side	0.328	0.345	0.673	N/A	N/A
Hotspot	Front Side	0.184	0.222	0.406	N/A	N/A
	Back Side	0.328	0.345	0.673	N/A	N/A
	Left Side	0.060	N/A	0.060	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.095	N/A	0.095	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 2.4G			
Head	Left Cheek	0.163	0.423	0.586	N/A	N/A
	Left Tilt 15 Degree	0.082	0.227	0.309	N/A	N/A

	Right Cheek	0.141	0.368	0.509	N/A	N/A
	Right Tilt 15 Degree	0.064	0.179	0.243	N/A	N/A
Body-Worn	Front Side	0.606	0.222	0.828	N/A	N/A
	Back Side	1.184	0.345	1.529	N/A	N/A
Hotspot	Front Side	0.606	0.222	0.828	N/A	N/A
	Back Side	1.184	0.345	1.529	N/A	N/A
	Left Side	0.205	N/A	0.205	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.307	N/A	0.307	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 2.4G			
Head	Left Cheek	0.157	0.423	0.580	N/A	N/A
	Left Tilt 15 Degree	0.087	0.227	0.314	N/A	N/A
	Right Cheek	0.140	0.368	0.508	N/A	N/A
	Right Tilt 15 Degree	0.065	0.179	0.244	N/A	N/A
Body-Worn	Front Side	0.623	0.222	0.845	N/A	N/A
	Back Side	1.073	0.345	1.418	N/A	N/A
Hotspot	Front Side	0.623	0.222	0.845	N/A	N/A
	Back Side	1.073	0.345	1.418	N/A	N/A
	Left Side	0.245	N/A	0.245	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 2.4G			
Head	Left Cheek	0.308	0.423	0.731	N/A	N/A
	Left Tilt 15 Degree	0.164	0.227	0.391	N/A	N/A
	Right Cheek	0.288	0.368	0.656	N/A	N/A
	Right Tilt 15 Degree	0.148	0.179	0.327	N/A	N/A
Body-Worn	Front Side	0.175	0.222	0.397	N/A	N/A
	Back Side	0.279	0.345	0.624	N/A	N/A
Hotspot	Front Side	0.175	0.222	0.397	N/A	N/A
	Back Side	0.279	0.345	0.624	N/A	N/A

	Left Side	0.061	N/A	0.061	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.095	N/A	0.095	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 2.4G			
Head	Left Cheek	0.303	0.423	0.726	N/A	N/A
	Left Tilt 15 Degree	0.159	0.227	0.386	N/A	N/A
	Right Cheek	0.278	0.368	0.646	N/A	N/A
	Right Tilt 15 Degree	0.145	0.179	0.324	N/A	N/A
Body-Worn	Front Side	0.664	0.222	0.886	N/A	N/A
	Back Side	1.152	0.345	1.497	N/A	N/A
Hotspot	Front Side	0.664	0.222	0.886	N/A	N/A
	Back Side	1.152	0.345	1.497	N/A	N/A
	Left Side	0.227	N/A	0.227	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.328	N/A	0.328	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 2.4G			
Head	Left Cheek	0.225	0.423	0.648	N/A	N/A
	Left Tilt 15 Degree	0.120	0.227	0.347	N/A	N/A
	Right Cheek	0.207	0.368	0.575	N/A	N/A
	Right Tilt 15 Degree	0.094	0.179	0.273	N/A	N/A
Body-Worn	Front Side	0.208	0.222	0.430	N/A	N/A
	Back Side	0.347	0.345	0.692	N/A	N/A
Hotspot	Front Side	0.208	0.222	0.430	N/A	N/A
	Back Side	0.347	0.345	0.692	N/A	N/A
	Left Side	0.065	N/A	0.065	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.101	N/A	0.101	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 2.4G.

Test Position	Scaled SAR _{MAX}	Σ 1-g SAR	SPLSR	Remark
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		LTE Band 17	WLAN 2.4G	(W/Kg)		
Head	Left Cheek	0.221	0.423	0.644	N/A	N/A
	Left Tilt 15 Degree	0.116	0.227	0.343	N/A	N/A
	Right Cheek	0.206	0.368	0.574	N/A	N/A
	Right Tilt 15 Degree	0.098	0.179	0.277	N/A	N/A
Body-Worn	Front Side	0.190	0.222	0.412	N/A	N/A
	Back Side	0.341	0.345	0.686	N/A	N/A
Hotspot	Front Side	0.190	0.222	0.412	N/A	N/A
	Back Side	0.341	0.345	0.686	N/A	N/A
	Left Side	0.090	N/A	0.090	N/A	N/A
	Right Side	N/A	0.081	0.081	N/A	N/A
	Top Side	N/A	0.106	0.106	N/A	N/A
	Bottom Side	0.120	N/A	0.120	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 5.2G			
Head	Left Cheek	0.735	0.568	1.303	N/A	N/A
	Left Tilt 15 Degree	0.382	0.309	0.691	N/A	N/A
	Right Cheek	0.687	0.485	1.172	N/A	N/A
	Right Tilt 15 Degree	0.346	0.248	0.594	N/A	N/A
Body-Worn	Front Side	0.407	0.166	0.573	N/A	N/A
	Back Side	0.740	0.271	1.011	N/A	N/A
Hotspot	Front Side	0.407	0.166	0.573	N/A	N/A
	Back Side	0.740	0.271	1.011	N/A	N/A
	Left Side	0.178	N/A	0.178	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.230	N/A	0.230	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.2G			
Head	Left Cheek	0.108	0.568	0.676	N/A	N/A
	Left Tilt 15 Degree	0.055	0.309	0.364	N/A	N/A
	Right Cheek	0.103	0.485	0.588	N/A	N/A
	Right Tilt 15 Degree	0.047	0.248	0.295	N/A	N/A

Body-Worn	Front Side	0.605	0.166	0.771	N/A	N/A
	Back Side	1.248	0.271	1.519	N/A	N/A
Hotspot	Front Side	0.605	0.166	0.771	N/A	N/A
	Back Side	1.248	0.271	1.519	N/A	N/A
	Left Side	0.269	N/A	0.269	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.314	N/A	0.314	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 5.2G			
Head	Left Cheek	0.147	0.568	0.715	N/A	N/A
	Left Tilt 15 Degree	0.074	0.309	0.383	N/A	N/A
	Right Cheek	0.138	0.485	0.623	N/A	N/A
	Right Tilt 15 Degree	0.062	0.248	0.310	N/A	N/A
Body-Worn	Front Side	0.667	0.166	0.833	N/A	N/A
	Back Side	1.180	0.271	1.451	N/A	N/A
Hotspot	Front Side	0.667	0.166	0.833	N/A	N/A
	Back Side	1.180	0.271	1.451	N/A	N/A
	Left Side	0.223	N/A	0.223	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.321	N/A	0.321	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.2G			
Head	Left Cheek	0.178	0.568	0.746	N/A	N/A
	Left Tilt 15 Degree	0.092	0.309	0.401	N/A	N/A
	Right Cheek	0.156	0.485	0.641	N/A	N/A
	Right Tilt 15 Degree	0.084	0.248	0.332	N/A	N/A
Body-Worn	Front Side	0.706	0.166	0.872	N/A	N/A
	Back Side	1.141	0.271	1.412	N/A	N/A
Hotspot	Front Side	0.706	0.166	0.872	N/A	N/A
	Back Side	1.141	0.271	1.412	N/A	N/A
	Left Side	0.318	N/A	0.318	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A

	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.423	N/A	0.423	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.2G			
Head	Left Cheek	0.307	0.568	0.875	N/A	N/A
	Left Tilt 15 Degree	0.183	0.309	0.492	N/A	N/A
	Right Cheek	0.287	0.485	0.772	N/A	N/A
	Right Tilt 15 Degree	0.138	0.248	0.386	N/A	N/A
Body-Worn	Front Side	0.184	0.166	0.350	N/A	N/A
	Back Side	0.328	0.271	0.599	N/A	N/A
Hotspot	Front Side	0.184	0.166	0.350	N/A	N/A
	Back Side	0.328	0.271	0.599	N/A	N/A
	Left Side	0.060	N/A	0.060	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.095	N/A	0.095	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.2G			
Head	Left Cheek	0.163	0.568	0.731	N/A	N/A
	Left Tilt 15 Degree	0.082	0.309	0.391	N/A	N/A
	Right Cheek	0.141	0.485	0.626	N/A	N/A
	Right Tilt 15 Degree	0.064	0.248	0.312	N/A	N/A
Body-Worn	Front Side	0.606	0.166	0.772	N/A	N/A
	Back Side	1.184	0.271	1.455	N/A	N/A
Hotspot	Front Side	0.606	0.166	0.772	N/A	N/A
	Back Side	1.184	0.271	1.455	N/A	N/A
	Left Side	0.205	N/A	0.205	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.307	N/A	0.307	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 5.2G			
Head	Left Cheek	0.157	0.568	0.725	N/A	N/A

	Left Tilt 15 Degree	0.087	0.309	0.396	N/A	N/A
	Right Cheek	0.140	0.485	0.625	N/A	N/A
	Right Tilt 15 Degree	0.065	0.248	0.313	N/A	N/A
Body-Worn	Front Side	0.623	0.166	0.789	N/A	N/A
	Back Side	1.073	0.271	1.344	N/A	N/A
Hotspot	Front Side	0.623	0.166	0.789	N/A	N/A
	Back Side	1.073	0.271	1.344	N/A	N/A
	Left Side	0.245	N/A	0.245	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.2G			
Head	Left Cheek	0.308	0.568	0.876	N/A	N/A
	Left Tilt 15 Degree	0.164	0.309	0.473	N/A	N/A
	Right Cheek	0.288	0.485	0.773	N/A	N/A
	Right Tilt 15 Degree	0.148	0.248	0.396	N/A	N/A
Body-Worn	Front Side	0.175	0.166	0.341	N/A	N/A
	Back Side	0.279	0.271	0.550	N/A	N/A
Hotspot	Front Side	0.175	0.166	0.341	N/A	N/A
	Back Side	0.279	0.271	0.550	N/A	N/A
	Left Side	0.061	N/A	0.061	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.095	N/A	0.095	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.2G			
Head	Left Cheek	0.303	0.568	0.871	N/A	N/A
	Left Tilt 15 Degree	0.159	0.309	0.468	N/A	N/A
	Right Cheek	0.278	0.485	0.763	N/A	N/A
	Right Tilt 15 Degree	0.145	0.248	0.393	N/A	N/A
Body-Worn	Front Side	0.664	0.166	0.830	N/A	N/A
	Back Side	1.152	0.271	1.423	N/A	N/A
Hotspot	Front Side	0.664	0.166	0.830	N/A	N/A

	Back Side	1.152	0.271	1.423	N/A	N/A
	Left Side	0.227	N/A	0.227	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.328	N/A	0.328	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 5.2G			
Head	Left Cheek	0.225	0.568	0.793	N/A	N/A
	Left Tilt 15 Degree	0.120	0.309	0.429	N/A	N/A
	Right Cheek	0.207	0.485	0.692	N/A	N/A
	Right Tilt 15 Degree	0.094	0.248	0.342	N/A	N/A
Body-Worn	Front Side	0.208	0.166	0.374	N/A	N/A
	Back Side	0.347	0.271	0.618	N/A	N/A
Hotspot	Front Side	0.208	0.166	0.374	N/A	N/A
	Back Side	0.347	0.271	0.618	N/A	N/A
	Left Side	0.065	N/A	0.065	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.101	N/A	0.101	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.2G			
Head	Left Cheek	0.221	0.568	0.789	N/A	N/A
	Left Tilt 15 Degree	0.116	0.309	0.425	N/A	N/A
	Right Cheek	0.206	0.485	0.691	N/A	N/A
	Right Tilt 15 Degree	0.098	0.248	0.346	N/A	N/A
Body-Worn	Front Side	0.190	0.166	0.356	N/A	N/A
	Back Side	0.341	0.271	0.612	N/A	N/A
Hotspot	Front Side	0.190	0.166	0.356	N/A	N/A
	Back Side	0.341	0.271	0.612	N/A	N/A
	Left Side	0.090	N/A	0.090	N/A	N/A
	Right Side	N/A	0.066	0.066	N/A	N/A
	Top Side	N/A	0.086	0.086	N/A	N/A
	Bottom Side	0.120	N/A	0.120	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	Bluetooth			
Head	Left Cheek	0.735	0.265	1.000	N/A	N/A
	Left Tilt 15 Degree	0.382	0.265	0.647	N/A	N/A
	Right Cheek	0.687	0.265	0.952	N/A	N/A
	Right Tilt 15 Degree	0.346	0.265	0.611	N/A	N/A
Body-Worn	Front Side	0.407	0.132	0.539	N/A	N/A
	Back Side	0.740	0.132	0.872	N/A	N/A
Hotspot	Front Side	0.407	0.132	0.539	N/A	N/A
	Back Side	0.740	0.132	0.872	N/A	N/A
	Left Side	0.178	N/A	0.178	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.230	N/A	0.230	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	Bluetooth			
Head	Left Cheek	0.108	0.265	0.373	N/A	N/A
	Left Tilt 15 Degree	0.055	0.265	0.320	N/A	N/A
	Right Cheek	0.103	0.265	0.368	N/A	N/A
	Right Tilt 15 Degree	0.047	0.265	0.312	N/A	N/A
Body-Worn	Front Side	0.605	0.132	0.737	N/A	N/A
	Back Side	1.248	0.132	1.380	N/A	N/A
Hotspot	Front Side	0.605	0.132	0.737	N/A	N/A
	Back Side	1.248	0.132	1.380	N/A	N/A
	Left Side	0.269	N/A	0.269	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.314	N/A	0.314	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	Bluetooth			
Head	Left Cheek	0.147	0.265	0.412	N/A	N/A
	Left Tilt 15 Degree	0.074	0.265	0.339	N/A	N/A
	Right Cheek	0.138	0.265	0.403	N/A	N/A

	Right Tilt 15 Degree	0.062	0.265	0.327	N/A	N/A
Body-Worn	Front Side	0.667	0.132	0.799	N/A	N/A
	Back Side	1.180	0.132	1.312	N/A	N/A
Hotspot	Front Side	0.667	0.132	0.799	N/A	N/A
	Back Side	1.180	0.132	1.312	N/A	N/A
	Left Side	0.223	N/A	0.223	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.321	N/A	0.321	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	Bluetooth			
Head	Left Cheek	0.178	0.265	0.443	N/A	N/A
	Left Tilt 15 Degree	0.092	0.265	0.357	N/A	N/A
	Right Cheek	0.156	0.265	0.421	N/A	N/A
	Right Tilt 15 Degree	0.084	0.265	0.349	N/A	N/A
Body-Worn	Front Side	0.706	0.132	0.838	N/A	N/A
	Back Side	1.141	0.132	1.273	N/A	N/A
Hotspot	Front Side	0.706	0.132	0.838	N/A	N/A
	Back Side	1.141	0.132	1.273	N/A	N/A
	Left Side	0.318	N/A	0.318	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.423	N/A	0.423	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	Bluetooth			
Head	Left Cheek	0.307	0.265	0.572	N/A	N/A
	Left Tilt 15 Degree	0.183	0.265	0.448	N/A	N/A
	Right Cheek	0.287	0.265	0.552	N/A	N/A
	Right Tilt 15 Degree	0.138	0.265	0.403	N/A	N/A
Body-Worn	Front Side	0.184	0.132	0.316	N/A	N/A
	Back Side	0.328	0.132	0.460	N/A	N/A
Hotspot	Front Side	0.184	0.132	0.316	N/A	N/A
	Back Side	0.328	0.132	0.460	N/A	N/A

	Left Side	0.060	N/A	0.060	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.095	N/A	0.095	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	Bluetooth			
Head	Left Cheek	0.163	0.265	0.428	N/A	N/A
	Left Tilt 15 Degree	0.082	0.265	0.347	N/A	N/A
	Right Cheek	0.141	0.265	0.406	N/A	N/A
	Right Tilt 15 Degree	0.064	0.265	0.329	N/A	N/A
Body-Worn	Front Side	0.606	0.132	0.738	N/A	N/A
	Back Side	1.184	0.132	1.316	N/A	N/A
Hotspot	Front Side	0.606	0.132	0.738	N/A	N/A
	Back Side	1.184	0.132	1.316	N/A	N/A
	Left Side	0.205	N/A	0.205	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.307	N/A	0.307	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	Bluetooth			
Head	Left Cheek	0.157	0.265	0.422	N/A	N/A
	Left Tilt 15 Degree	0.087	0.265	0.352	N/A	N/A
	Right Cheek	0.140	0.265	0.405	N/A	N/A
	Right Tilt 15 Degree	0.065	0.265	0.330	N/A	N/A
Body-Worn	Front Side	0.623	0.132	0.755	N/A	N/A
	Back Side	1.073	0.132	1.205	N/A	N/A
Hotspot	Front Side	0.623	0.132	0.755	N/A	N/A
	Back Side	1.073	0.132	1.205	N/A	N/A
	Left Side	0.245	N/A	0.245	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	Bluetooth			
Head	Left Cheek	0.308	0.265	0.573	N/A	N/A
	Left Tilt 15 Degree	0.164	0.265	0.429	N/A	N/A
	Right Cheek	0.288	0.265	0.553	N/A	N/A
	Right Tilt 15 Degree	0.148	0.265	0.413	N/A	N/A
Body-Worn	Front Side	0.175	0.132	0.307	N/A	N/A
	Back Side	0.279	0.132	0.411	N/A	N/A
Hotspot	Front Side	0.175	0.132	0.307	N/A	N/A
	Back Side	0.279	0.132	0.411	N/A	N/A
	Left Side	0.061	N/A	0.061	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.095	N/A	0.095	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	Bluetooth			
Head	Left Cheek	0.303	0.265	0.568	N/A	N/A
	Left Tilt 15 Degree	0.159	0.265	0.424	N/A	N/A
	Right Cheek	0.278	0.265	0.543	N/A	N/A
	Right Tilt 15 Degree	0.145	0.265	0.410	N/A	N/A
Body-Worn	Front Side	0.664	0.132	0.796	N/A	N/A
	Back Side	1.152	0.132	1.284	N/A	N/A
Hotspot	Front Side	0.664	0.132	0.796	N/A	N/A
	Back Side	1.152	0.132	1.284	N/A	N/A
	Left Side	0.227	N/A	0.227	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.328	N/A	0.328	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	Bluetooth			
Head	Left Cheek	0.225	0.265	0.490	N/A	N/A
	Left Tilt 15 Degree	0.120	0.265	0.385	N/A	N/A
	Right Cheek	0.207	0.265	0.472	N/A	N/A
	Right Tilt 15	0.094	0.265	0.359	N/A	N/A

	Degree					
Body-Worn	Front Side	0.208	0.132	0.340	N/A	N/A
	Back Side	0.347	0.132	0.479	N/A	N/A
Hotspot	Front Side	0.208	0.132	0.340	N/A	N/A
	Back Side	0.347	0.132	0.479	N/A	N/A
	Left Side	0.065	N/A	0.065	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.101	N/A	0.101	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	Bluetooth			
Head	Left Cheek	0.221	0.265	0.486	N/A	N/A
	Left Tilt 15 Degree	0.116	0.265	0.381	N/A	N/A
	Right Cheek	0.206	0.265	0.471	N/A	N/A
	Right Tilt 15 Degree	0.098	0.265	0.363	N/A	N/A
Body-Worn	Front Side	0.190	0.132	0.322	N/A	N/A
	Back Side	0.341	0.132	0.473	N/A	N/A
Hotspot	Front Side	0.190	0.132	0.322	N/A	N/A
	Back Side	0.341	0.132	0.473	N/A	N/A
	Left Side	0.090	N/A	0.090	N/A	N/A
	Right Side	N/A	0.132	0.132	N/A	N/A
	Top Side	N/A	0.132	0.132	N/A	N/A
	Bottom Side	0.120	N/A	0.120	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and Bluetooth.

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - SID750 - Head
MEASUREMENT 2 System Performance Check - SID750 - Body
MEASUREMENT 3 System Performance Check - SID835 - Head
MEASUREMENT 4 System Performance Check - SID835 - Body
MEASUREMENT 5 System Performance Check - SID1800 - Head
MEASUREMENT 6 System Performance Check - SID1800 - Body
MEASUREMENT 7 System Performance Check - SID1900 - Head
MEASUREMENT 8 System Performance Check - SID1900 - Body
MEASUREMENT 9 System Performance Check - SID2450 - Head
MEASUREMENT 10 System Performance Check - SID2450 - Body
MEASUREMENT 11 System Performance Check - SID2600 - Head
MEASUREMENT 12 System Performance Check - SID2600 - Body
MEASUREMENT 13 System Performance Check - SID5200 - Head
MEASUREMENT 14 System Performance Check - SID5200 - Body

MEASUREMENT 1

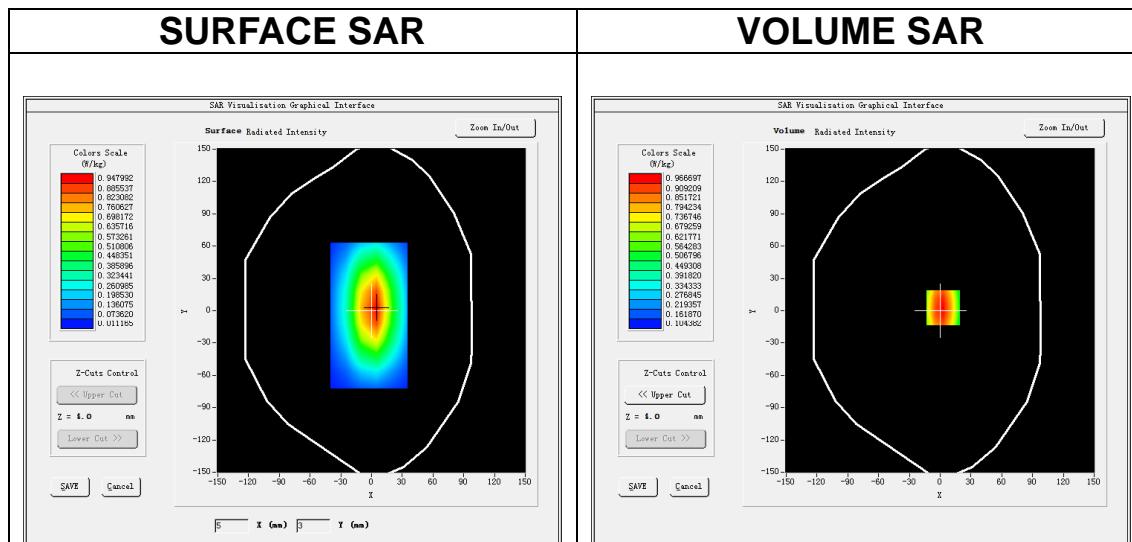
Date of measurement: 13/11/2020

A. Experimental conditions.

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

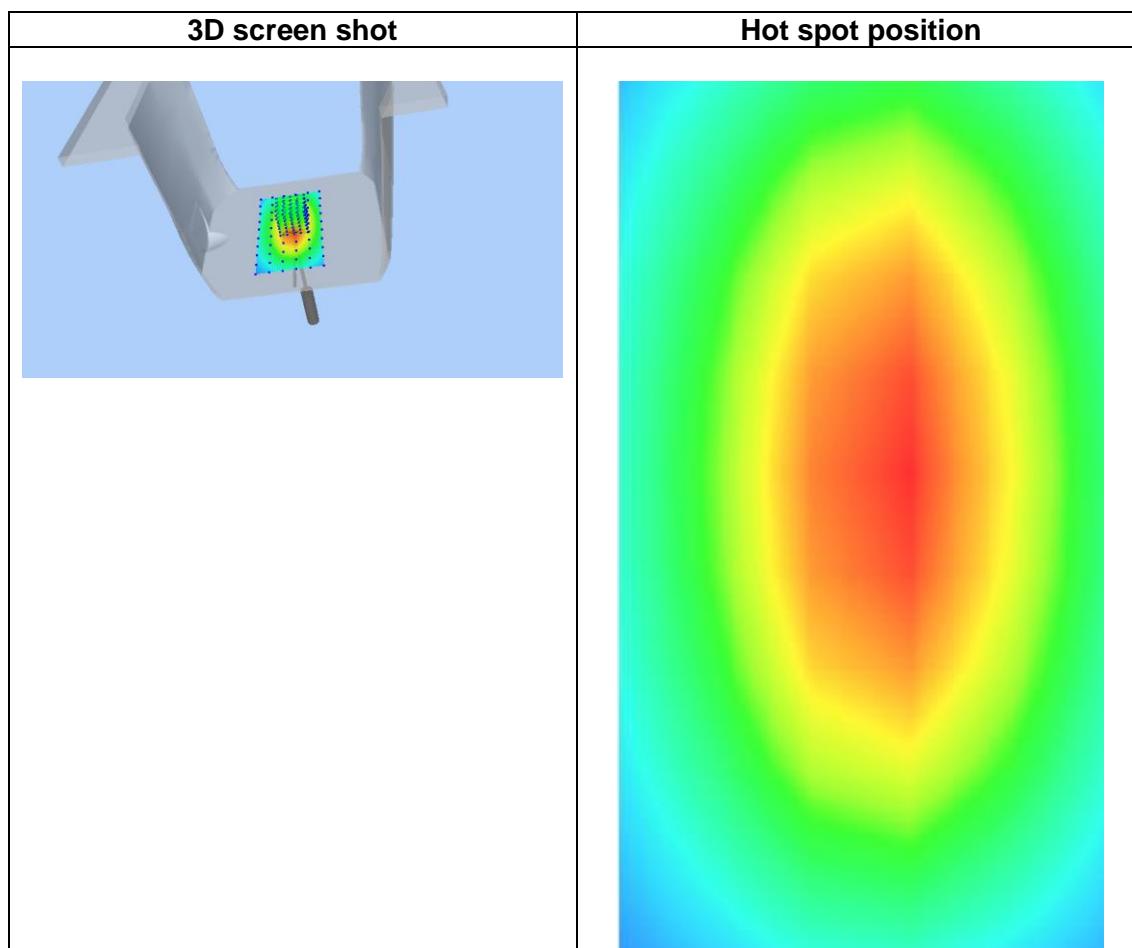
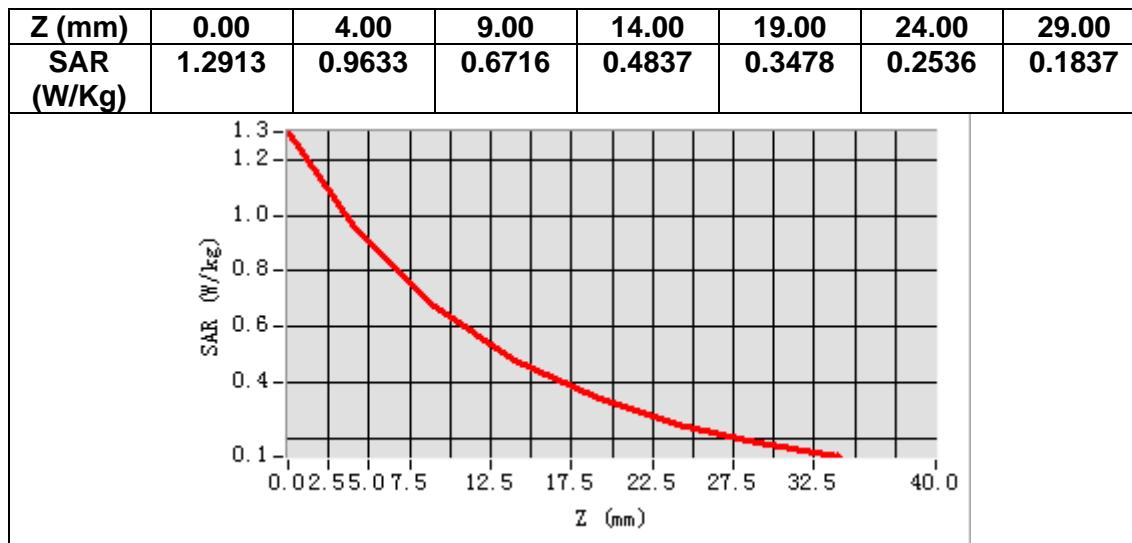
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	42.053162
Relative permittivity (imaginary part)	21.641263
Conductivity (S/m)	0.902262
Variation (%)	-3.810000



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

SAR 10g (W/Kg)	0.598218
SAR 1g (W/Kg)	0.883362



MEASUREMENT 2

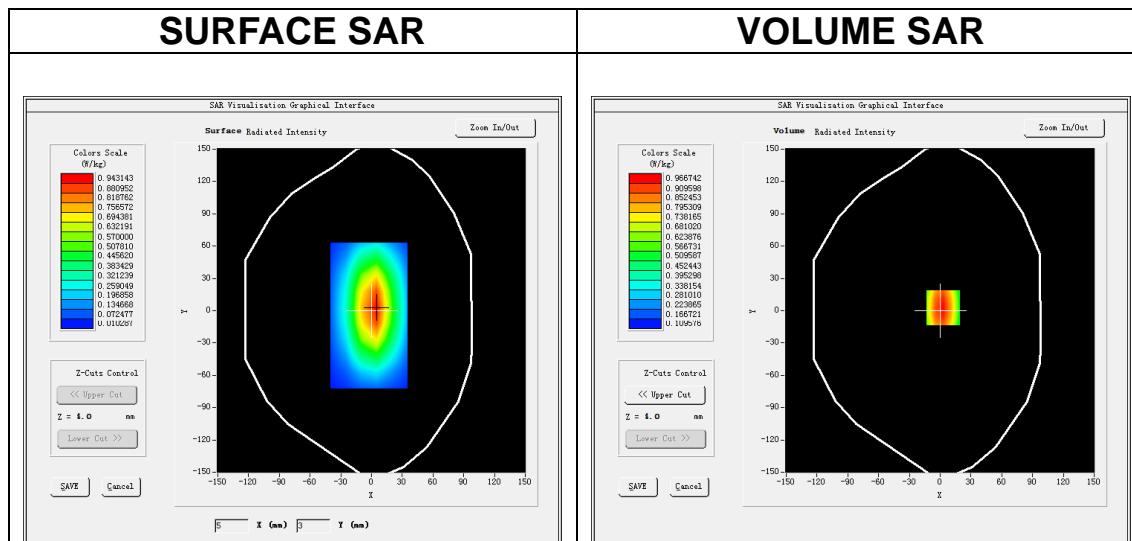
Date of measurement: 13/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

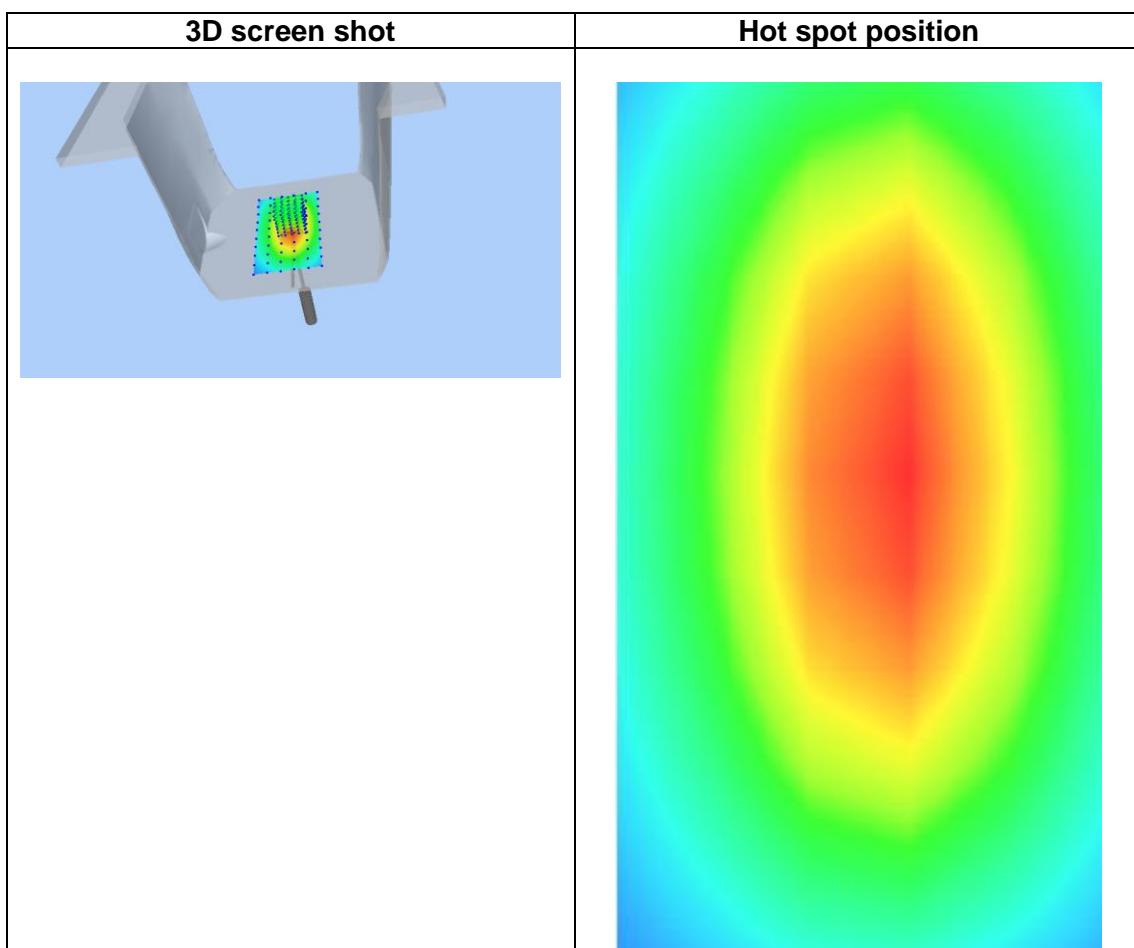
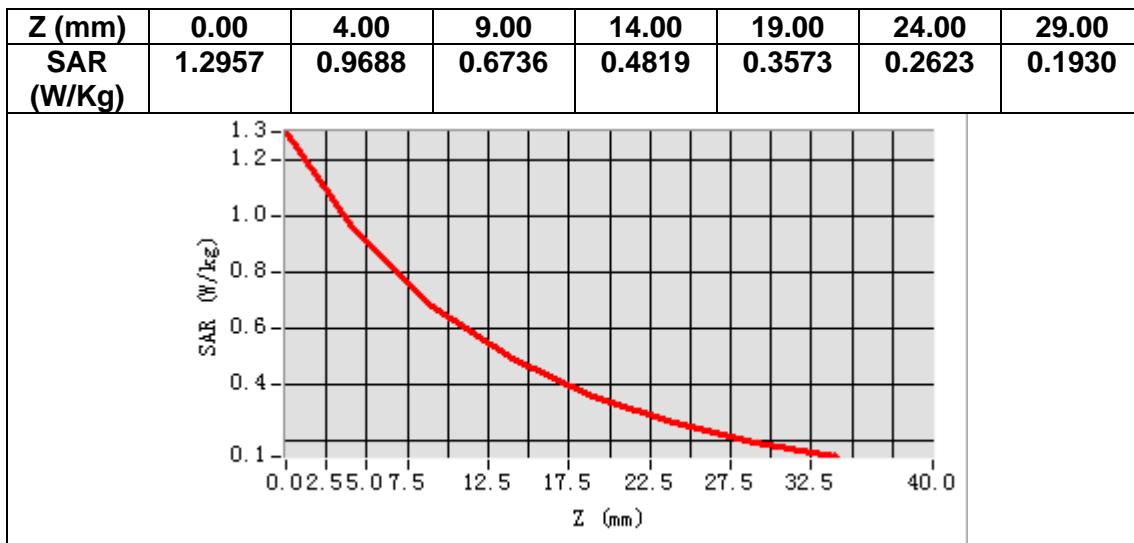
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	55.780248
Relative permittivity (imaginary part)	23.223842
Conductivity (S/m)	0.970318
Variation (%)	-1.490000



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

SAR 10g (W/Kg)	0.561281
SAR 1g (W/Kg)	0.930263



MEASUREMENT 3

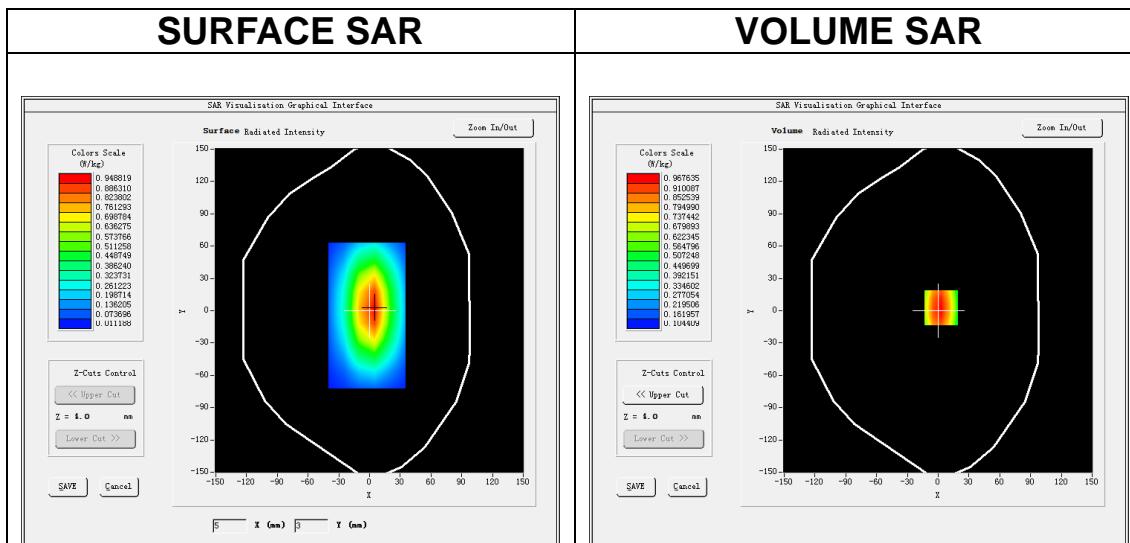
Date of measurement: 15/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

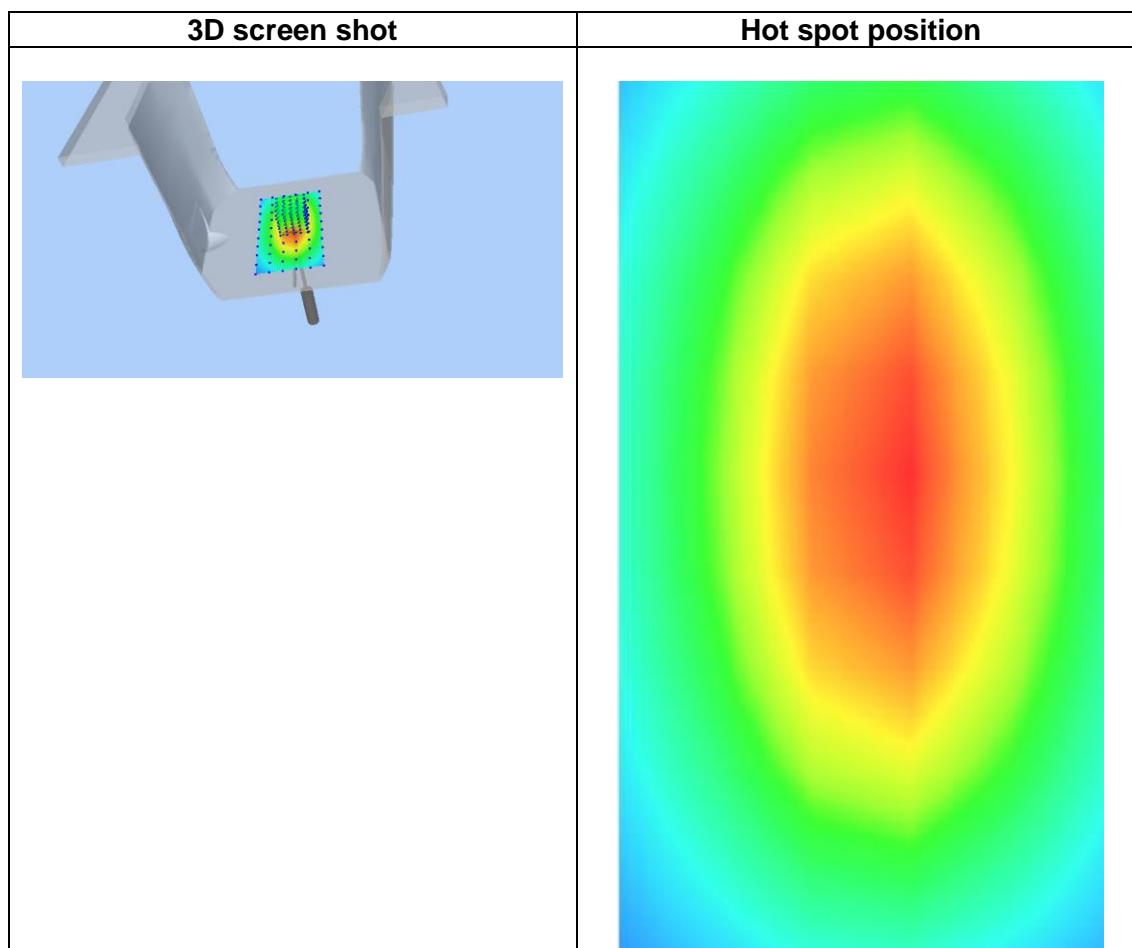
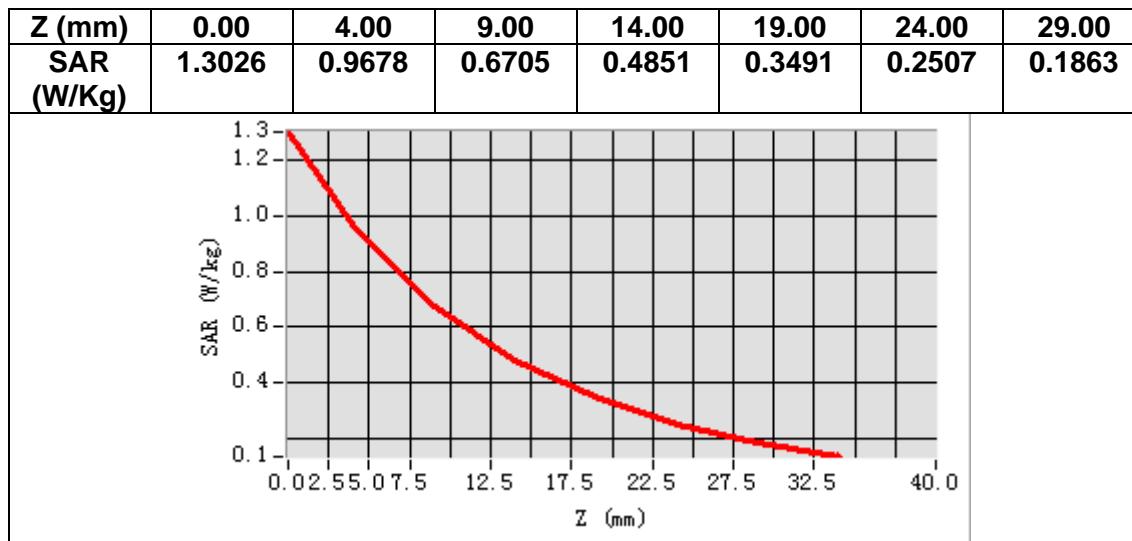
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.113541
Relative permittivity (imaginary part)	19.740613
Conductivity (S/m)	0.920542
Variation (%)	1.870000



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

SAR 10g (W/Kg)	0.636466
SAR 1g (W/Kg)	0.971035



MEASUREMENT 4

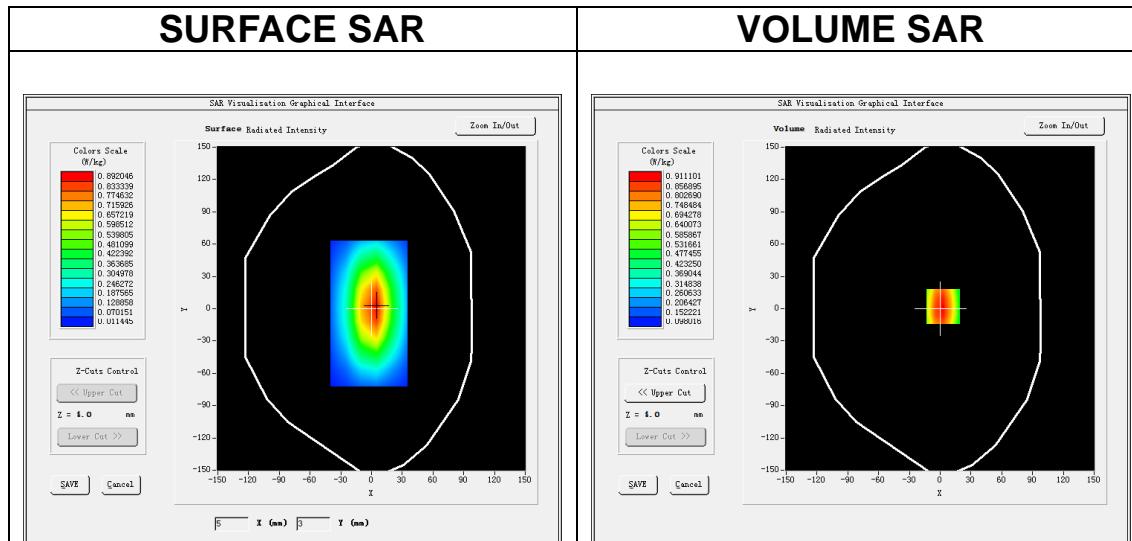
Date of measurement: 14/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

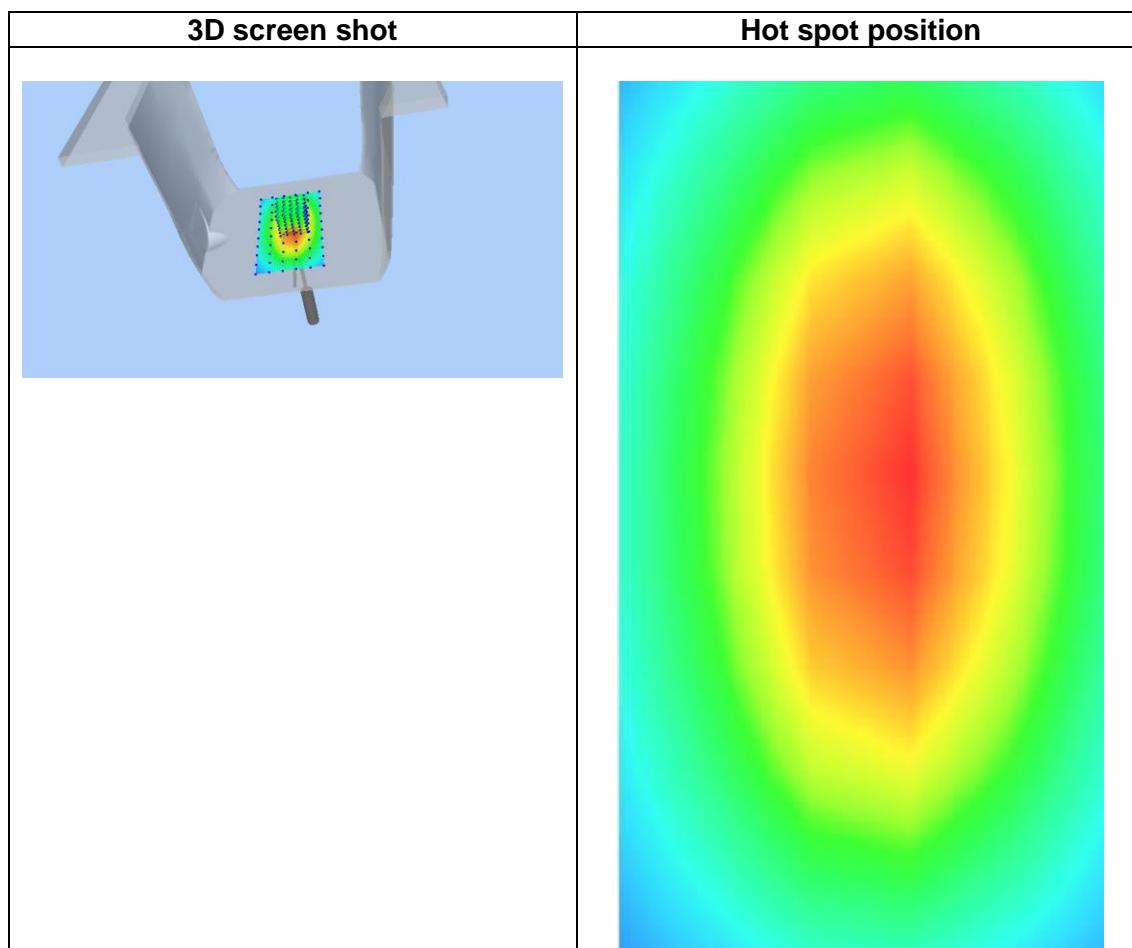
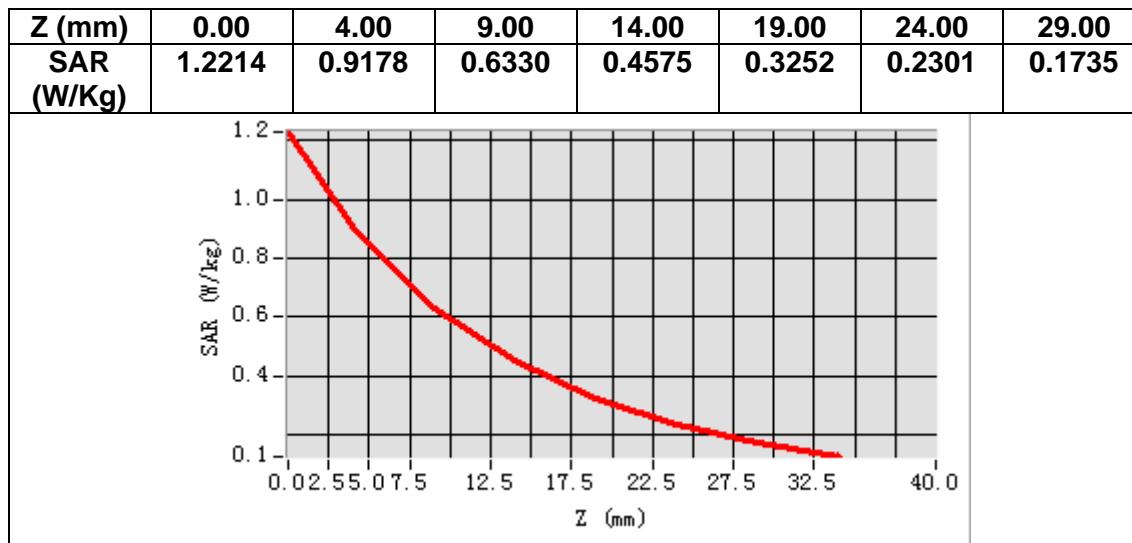
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.841111
Relative permittivity (imaginary part)	20.983359
Conductivity (S/m)	0.971236
Variation (%)	-1.200000



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

SAR 10g (W/Kg)	0.655123
SAR 1g (W/Kg)	1.044356



MEASUREMENT 5

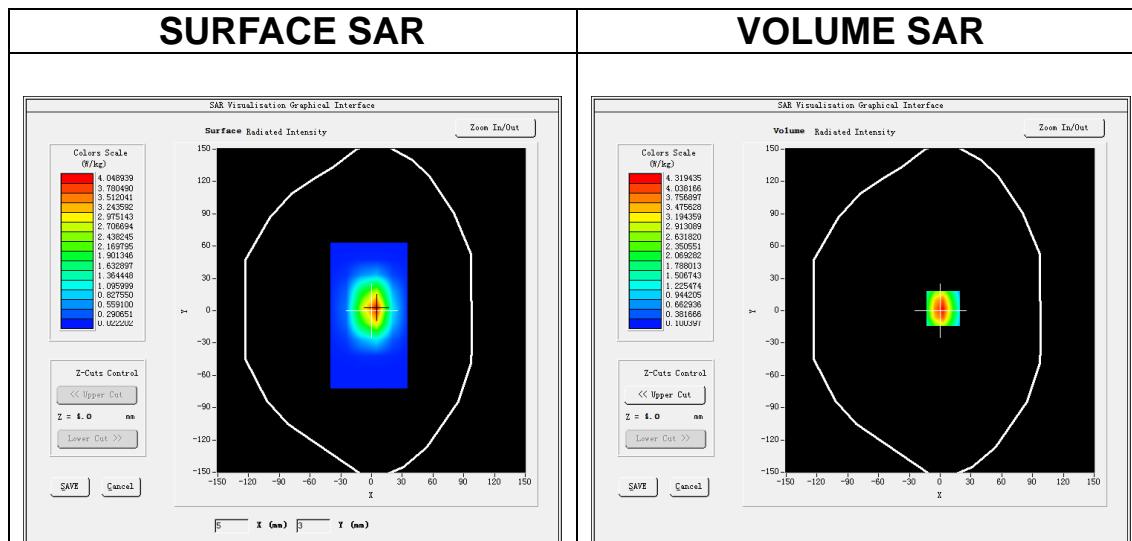
Date of measurement: 15/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

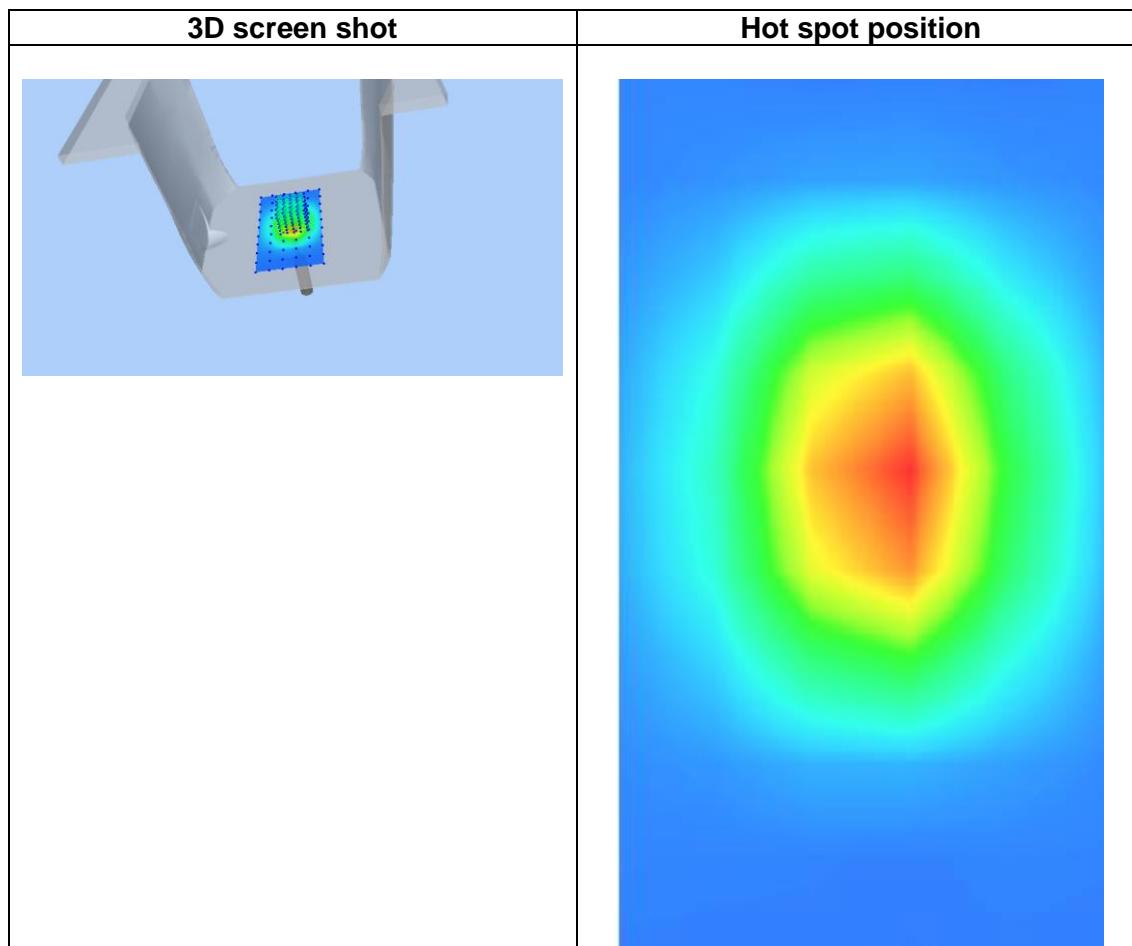
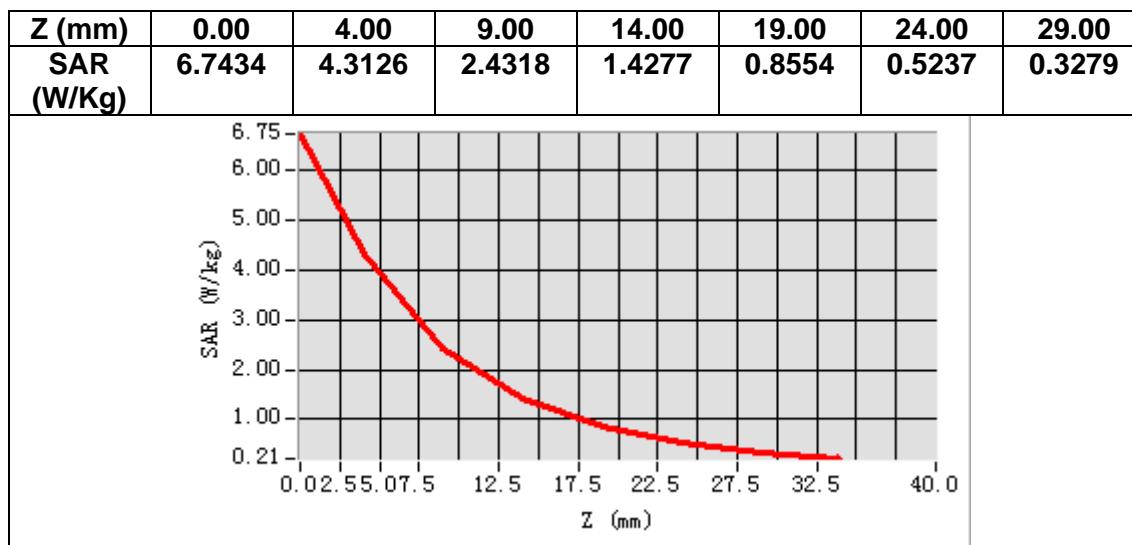
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.971237
Relative permittivity (imaginary part)	13.603229
Conductivity (S/m)	1.360367
Variation (%)	-2.11000



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

SAR 10g (W/Kg)	2.082397
SAR 1g (W/Kg)	3.735451



MEASUREMENT 6

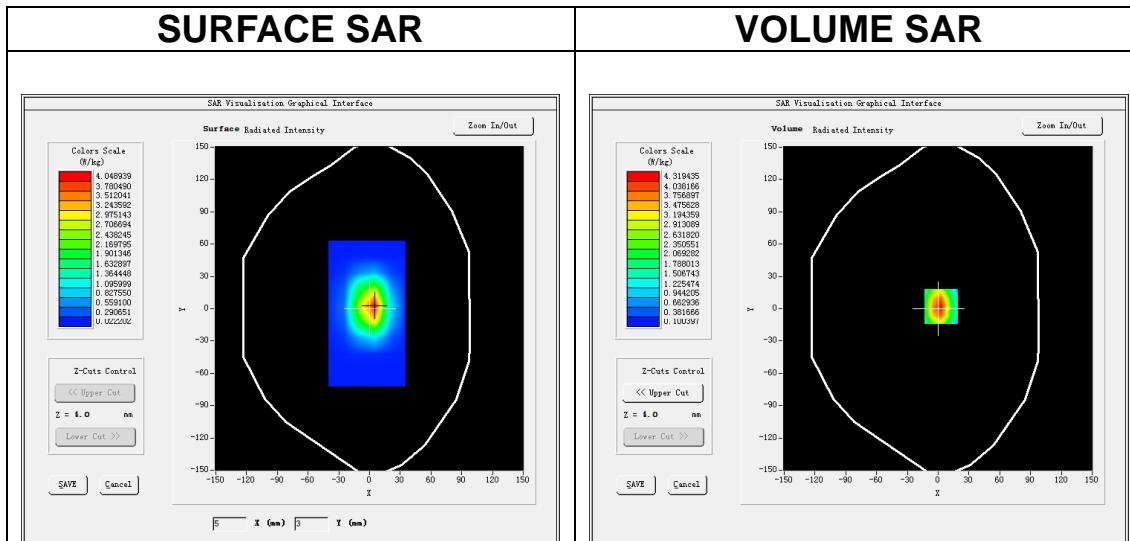
Date of measurement: 10/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

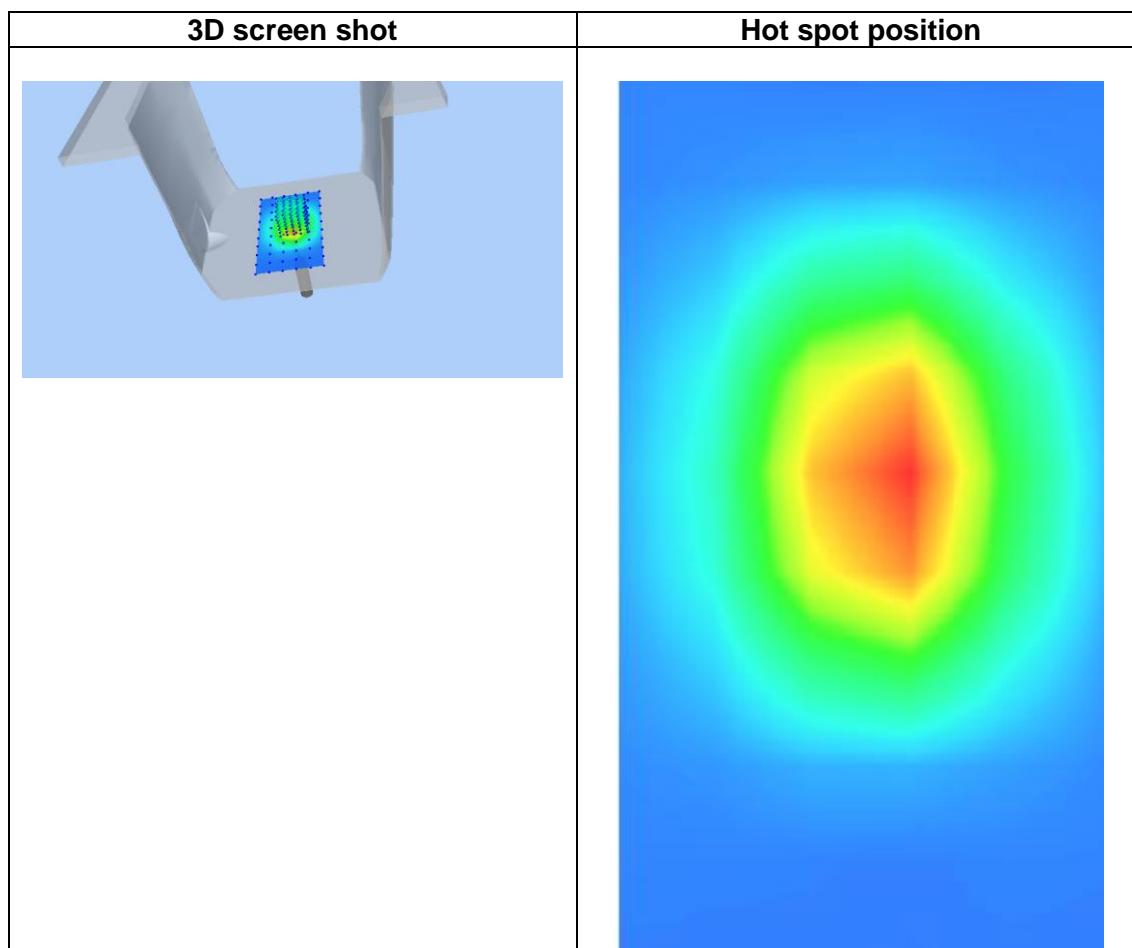
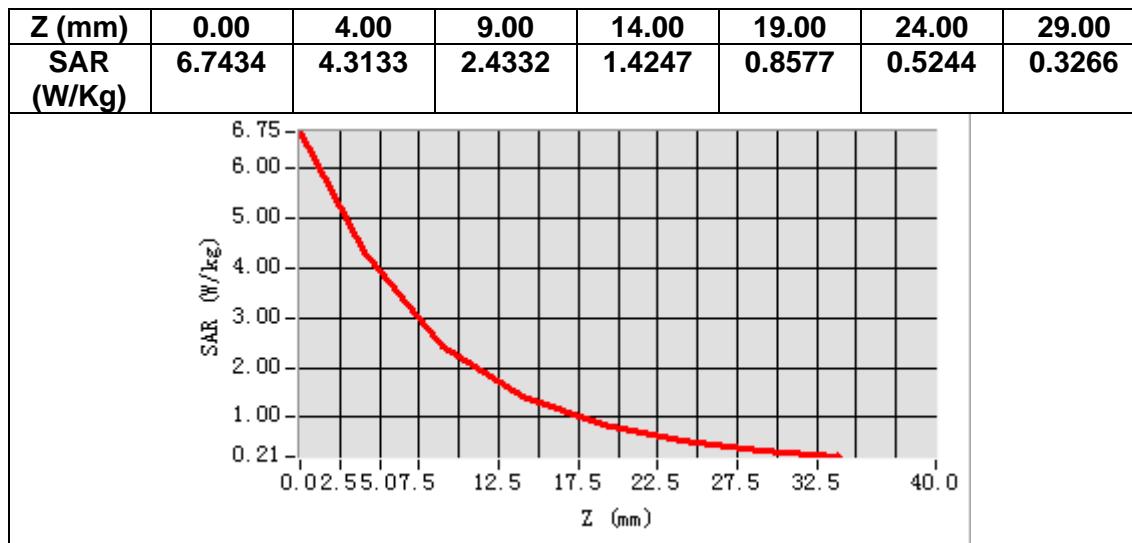
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	54.183510
Relative permittivity (imaginary part)	15.074016
Conductivity (S/m)	1.513096
Variation (%)	2.020000



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

SAR 10g (W/Kg)	2.043379
SAR 1g (W/Kg)	3.920268



MEASUREMENT 7

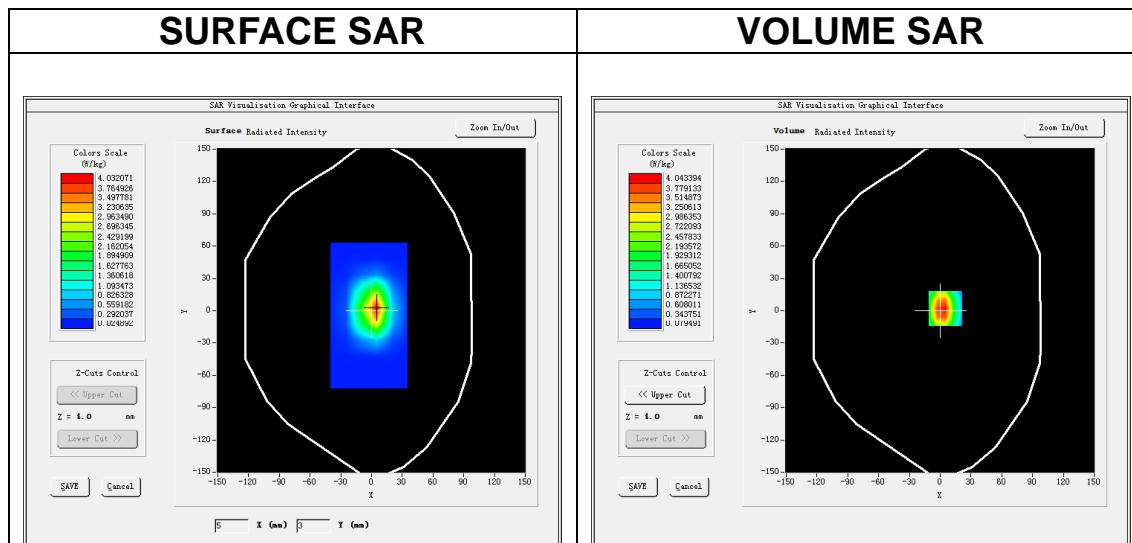
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

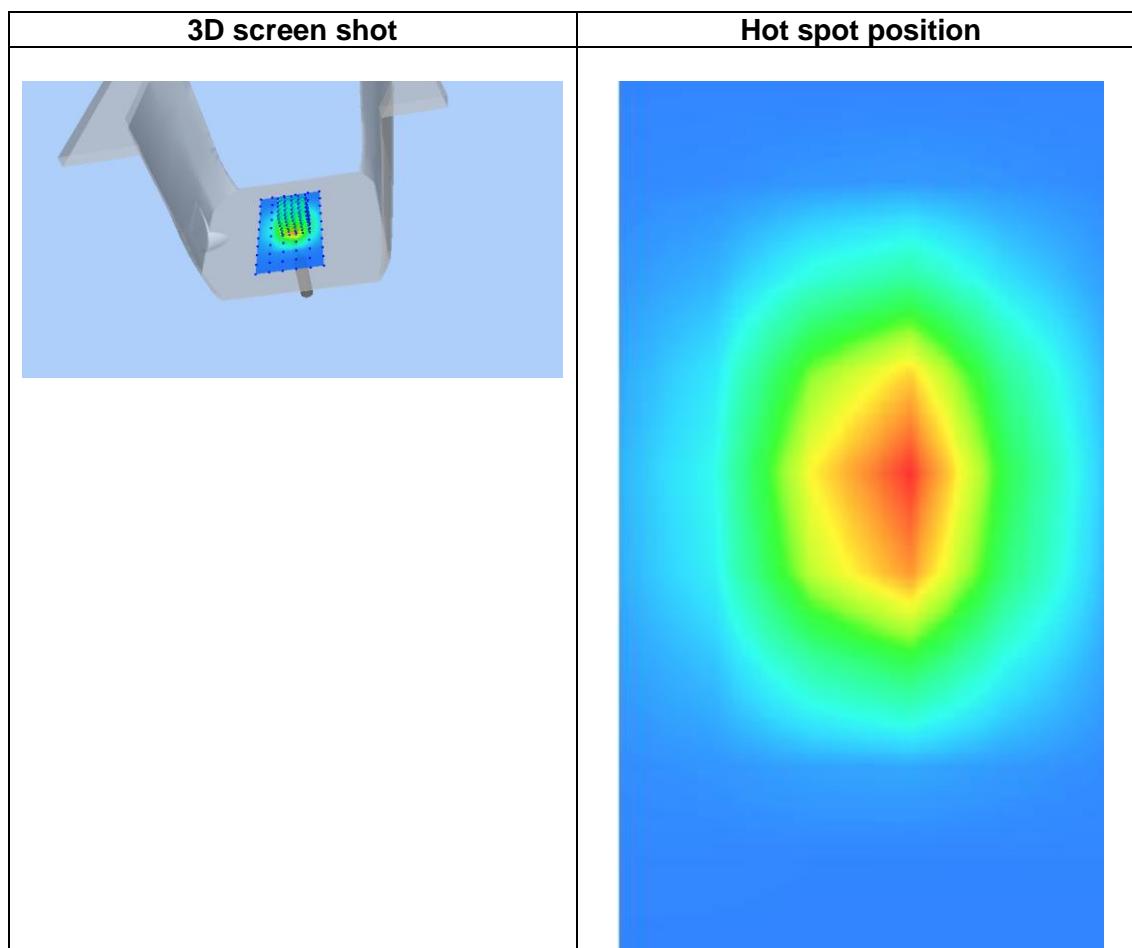
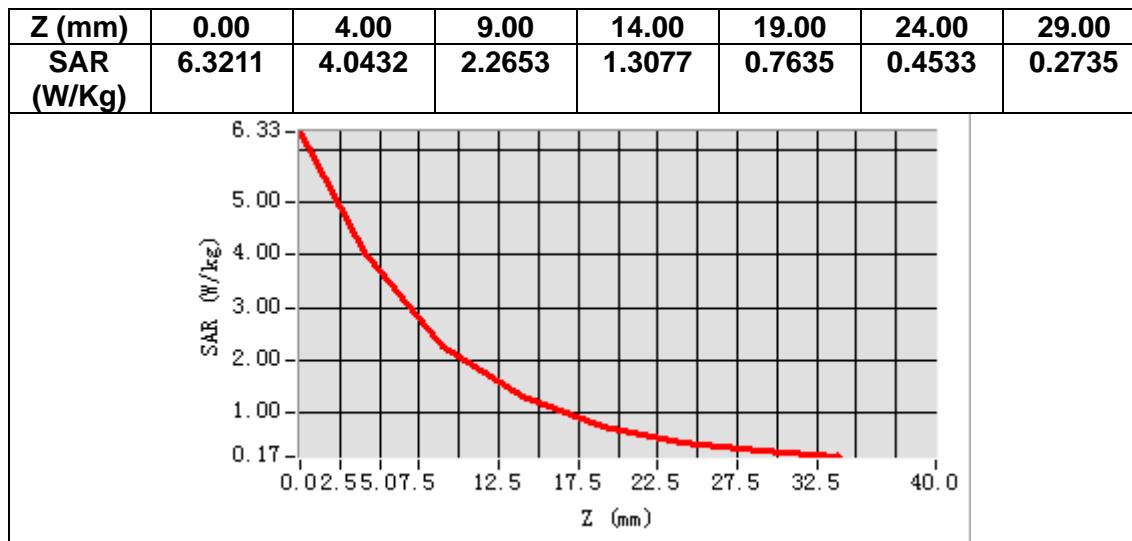
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.821287
Relative permittivity (imaginary part)	13.523008
Conductivity (S/m)	1.430336
Variation (%)	-1.430000



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

SAR 10g (W/Kg)	2.057456
SAR 1g (W/Kg)	3.818365



MEASUREMENT 8

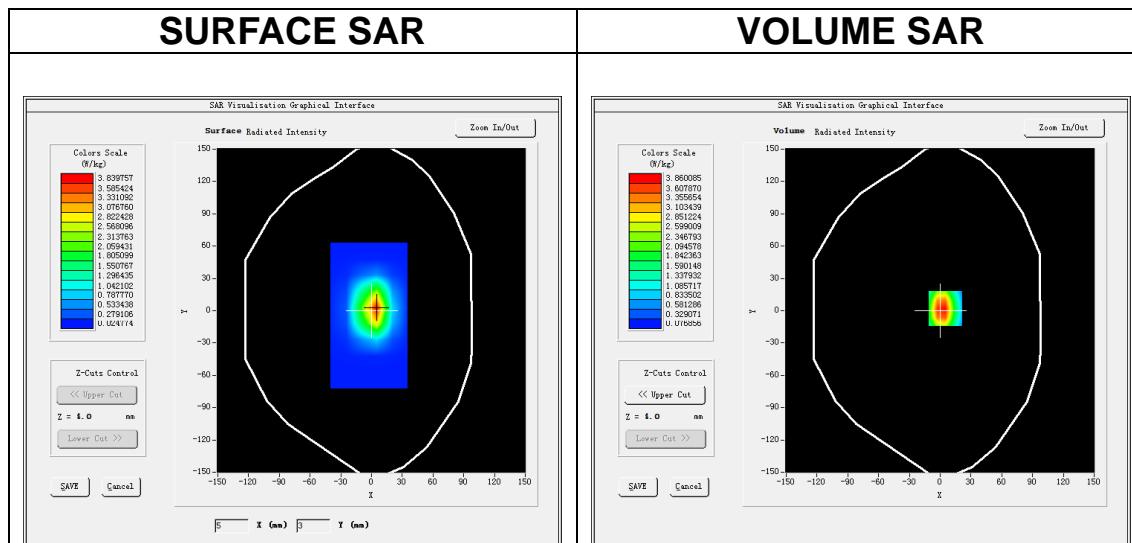
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

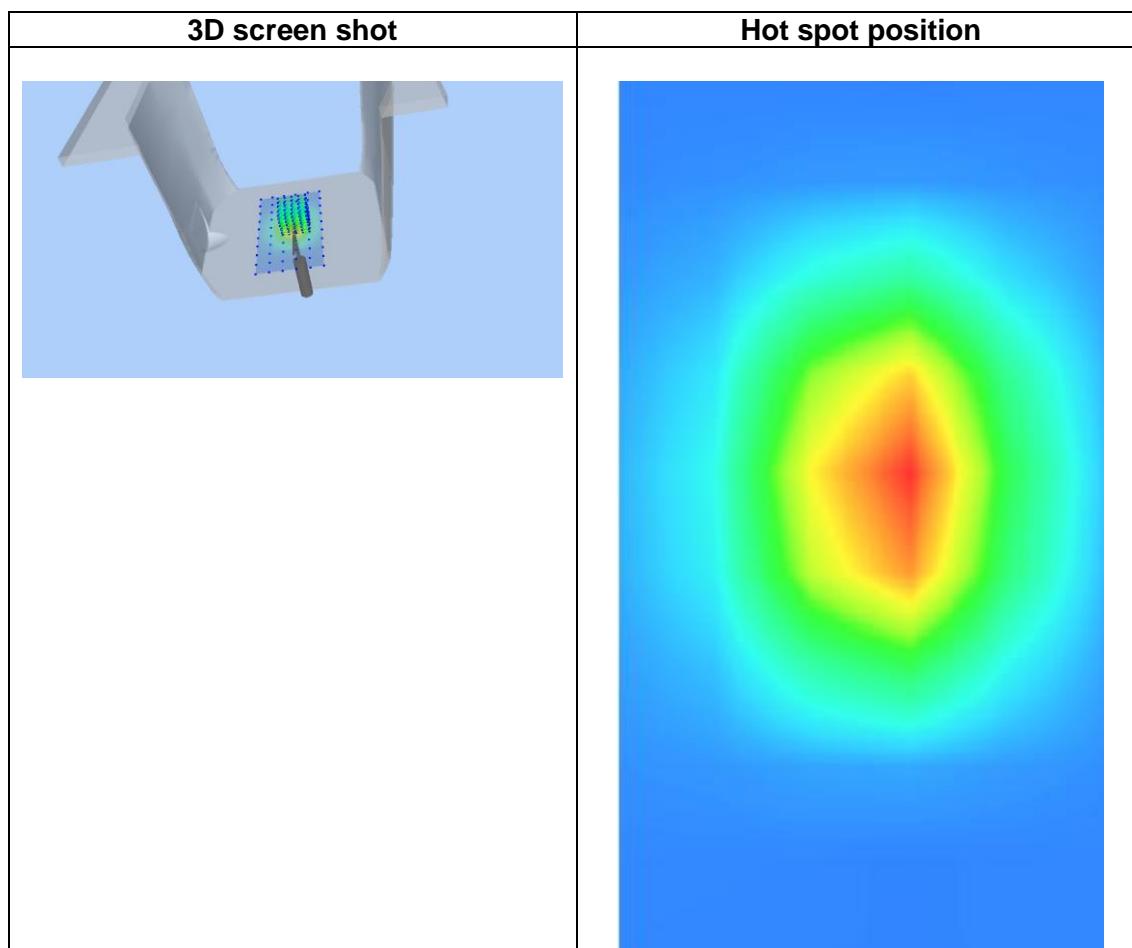
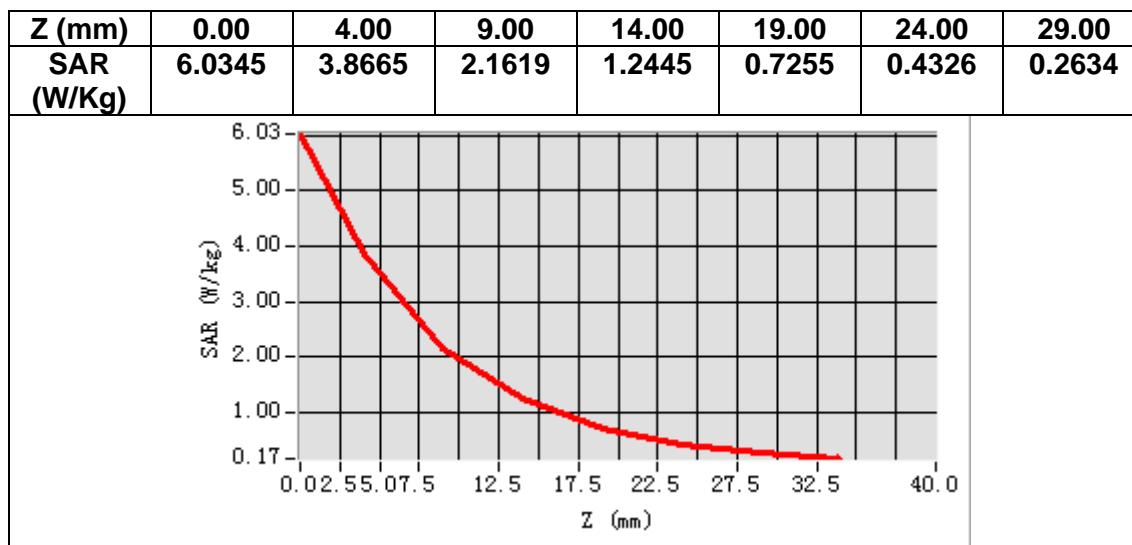
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	54.393335
Relative permittivity (imaginary part)	14.423503
Conductivity (S/m)	1.520566
Variation (%)	3.460000



Maximum location: X=5.00, Y=2.00
SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	2.146329
SAR 1g (W/Kg)	3.846402



MEASUREMENT 9

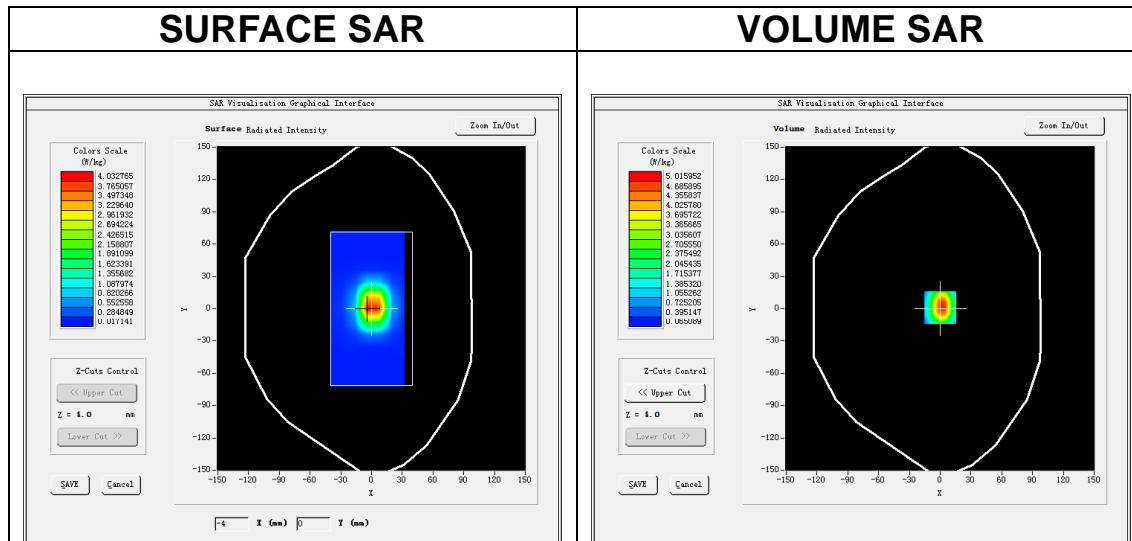
Date of measurement: 12/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=12\text{mm}$ $dy=12\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$7\times7\times7, dx=5\text{mm}$ $dy=5\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

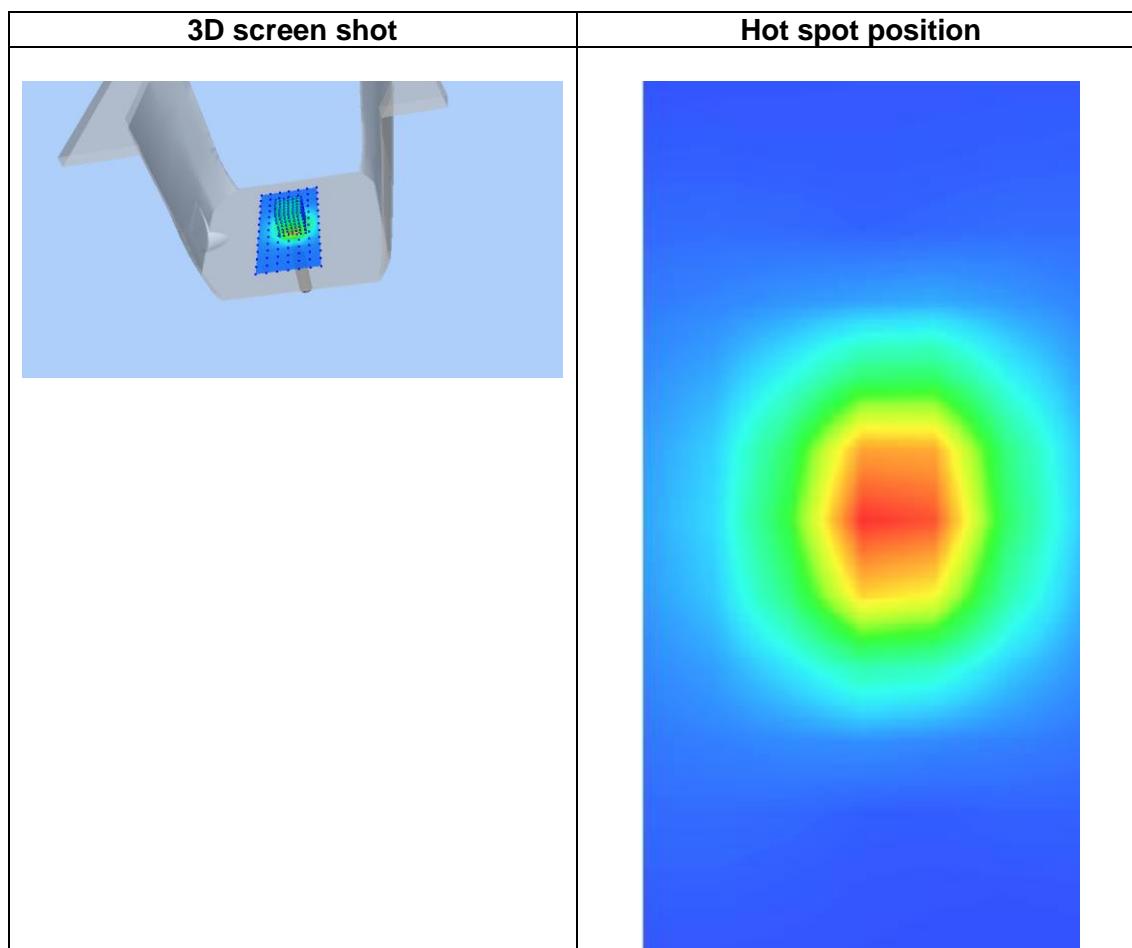
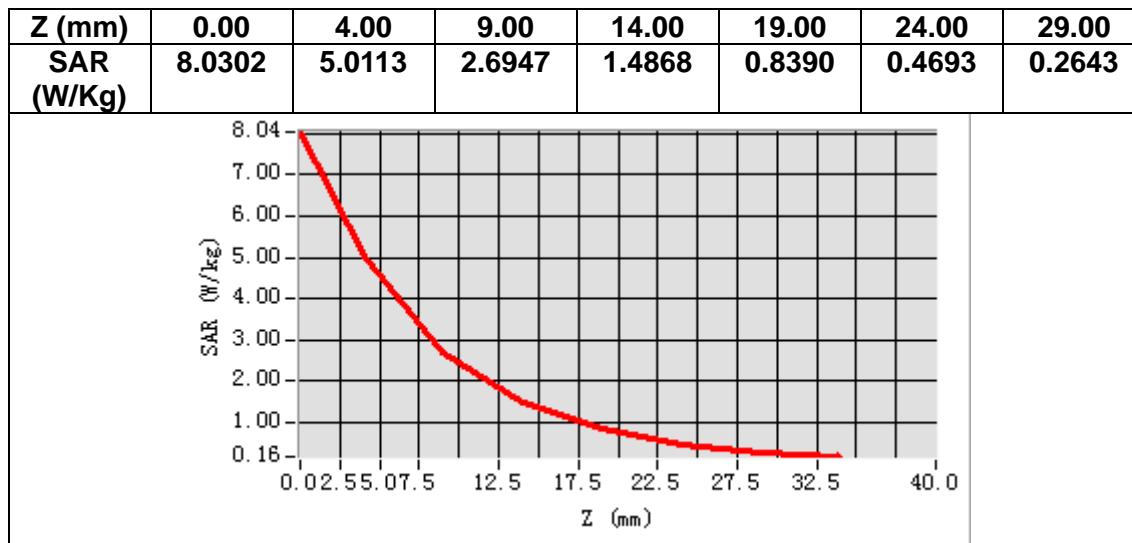
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	38.711421
Relative permittivity (imaginary part)	13.472631
Conductivity (S/m)	1.830663
Variation (%)	-3.350000



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

SAR 10g (W/Kg)	2.442375
SAR 1g (W/Kg)	5.451435



MEASUREMENT 10

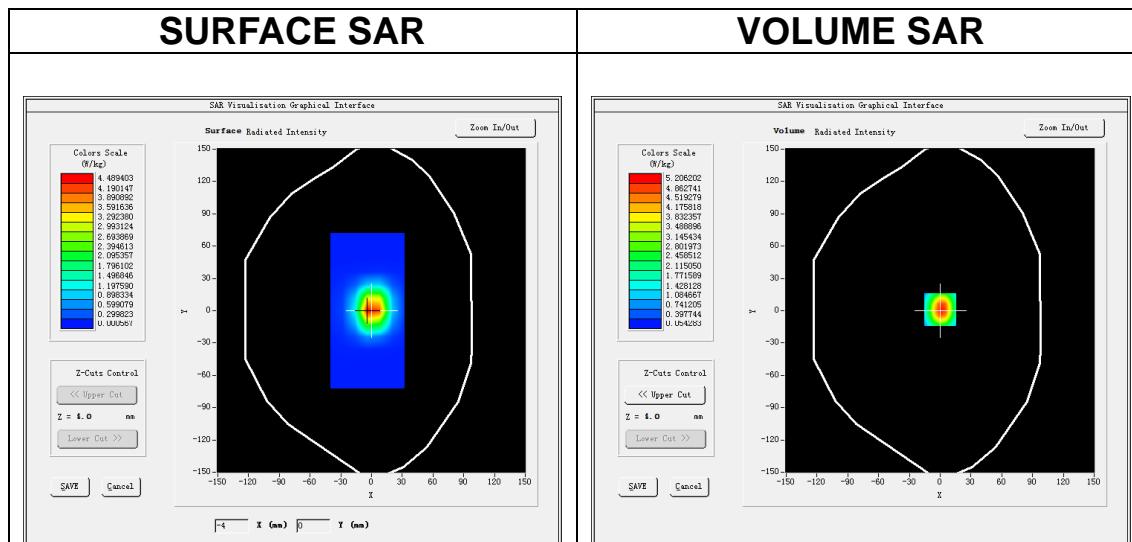
Date of measurement: 12/11/2020

A. Experimental conditions.

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

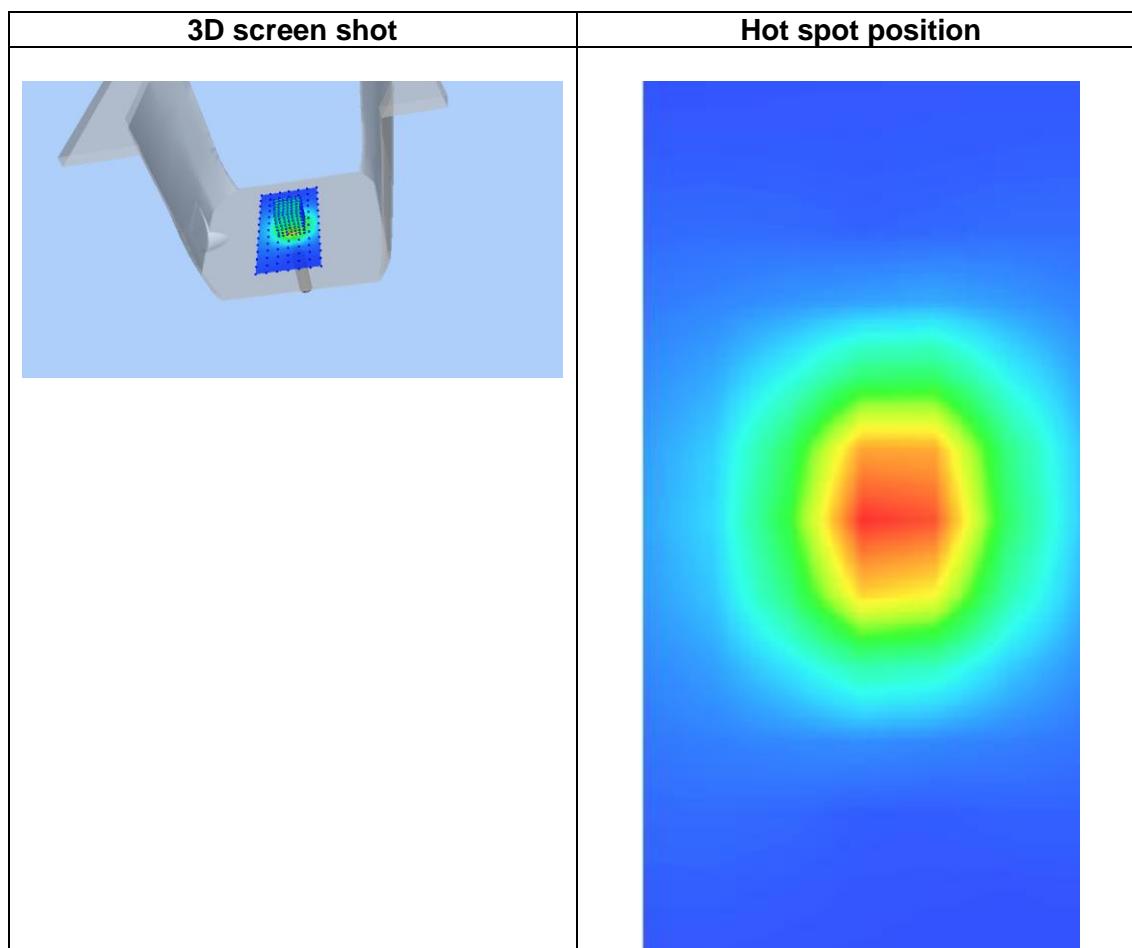
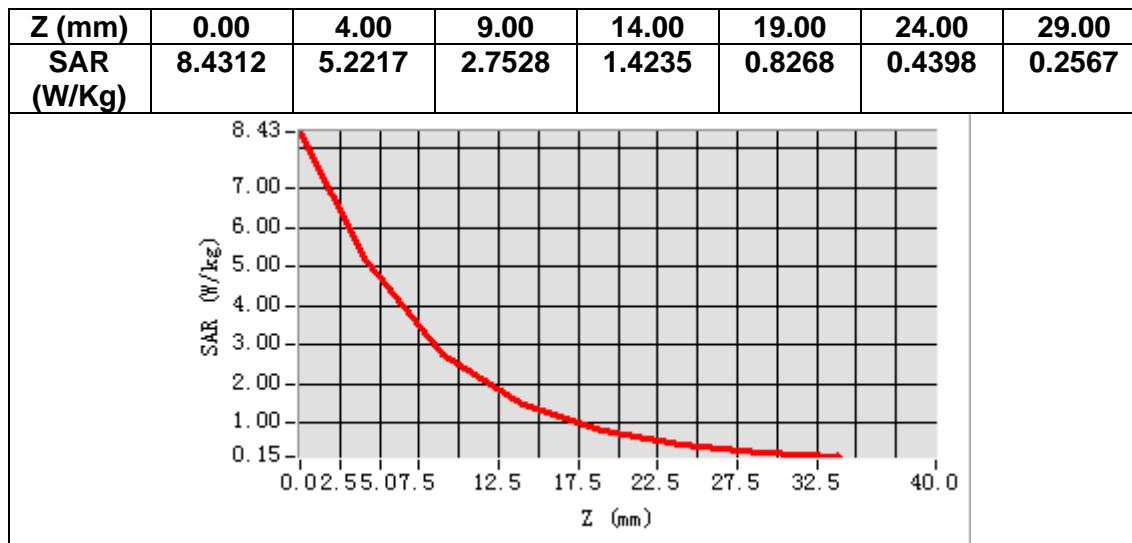
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	51.671497
Relative permittivity (imaginary part)	13.793566
Conductivity (S/m)	1.882816
Variation (%)	1.420000



Maximum location: X=0.00, Y=1.00
SAR Peak: 8.46 W/kg

SAR 10g (W/Kg)	2.312285
SAR 1g (W/Kg)	5.141270



MEASUREMENT 11

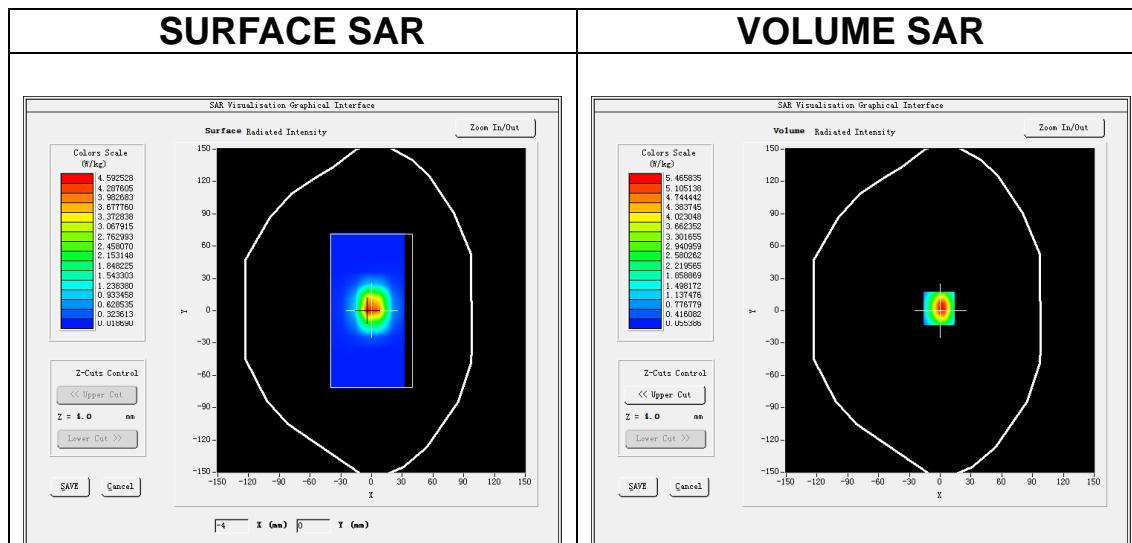
Date of measurement: 16/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=12\text{mm}$ $dy=12\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$7\times7\times7, dx=5\text{mm}$ $dy=5\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

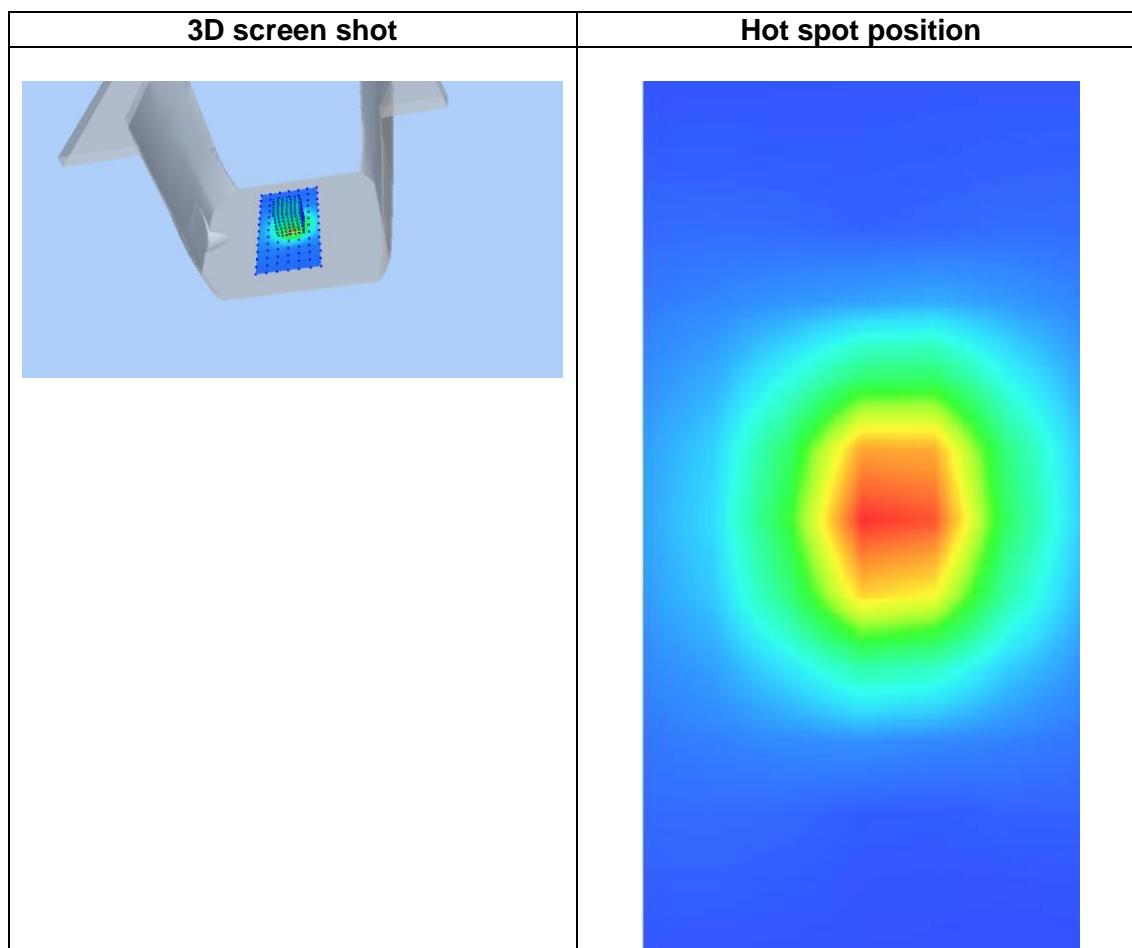
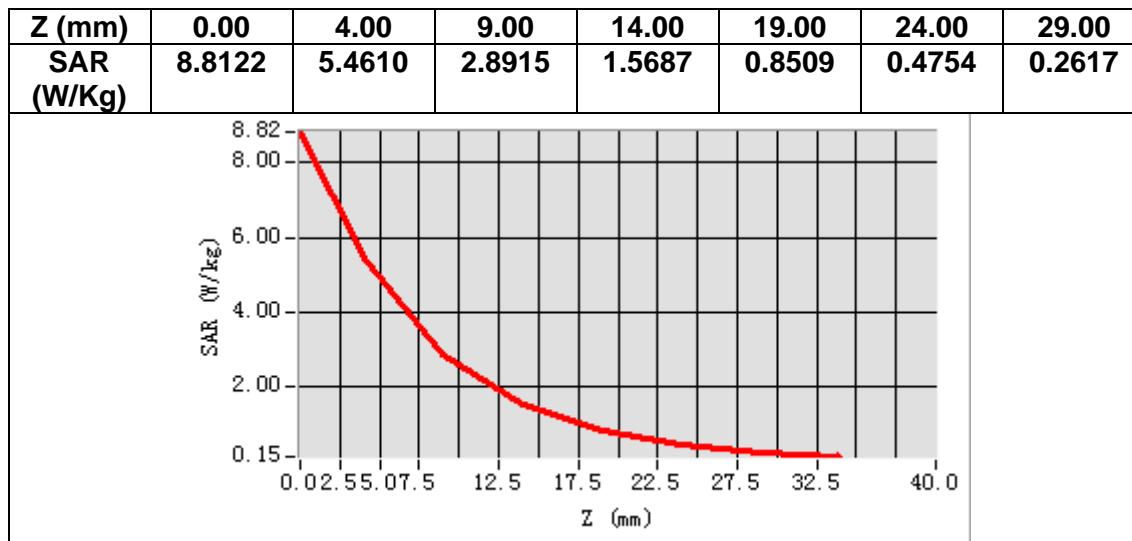
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.442638
Relative permittivity (imaginary part)	13.803997
Conductivity (S/m)	1.991363
Variation (%)	-0.040000



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

SAR 10g (W/Kg)	2.536205
SAR 1g (W/Kg)	5.659267



MEASUREMENT 12

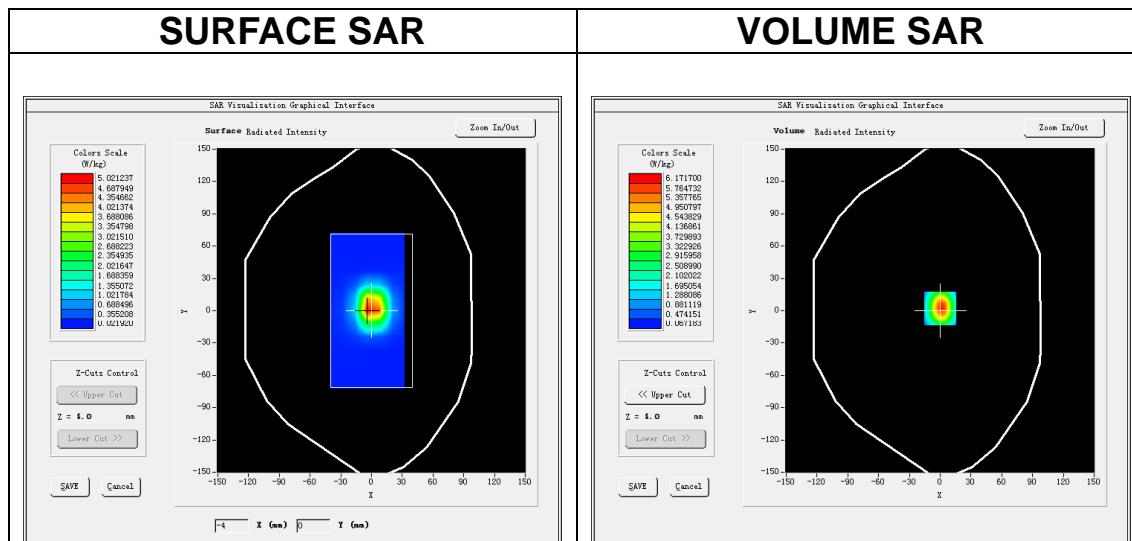
Date of measurement: 7/11/2020

A. Experimental conditions.

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

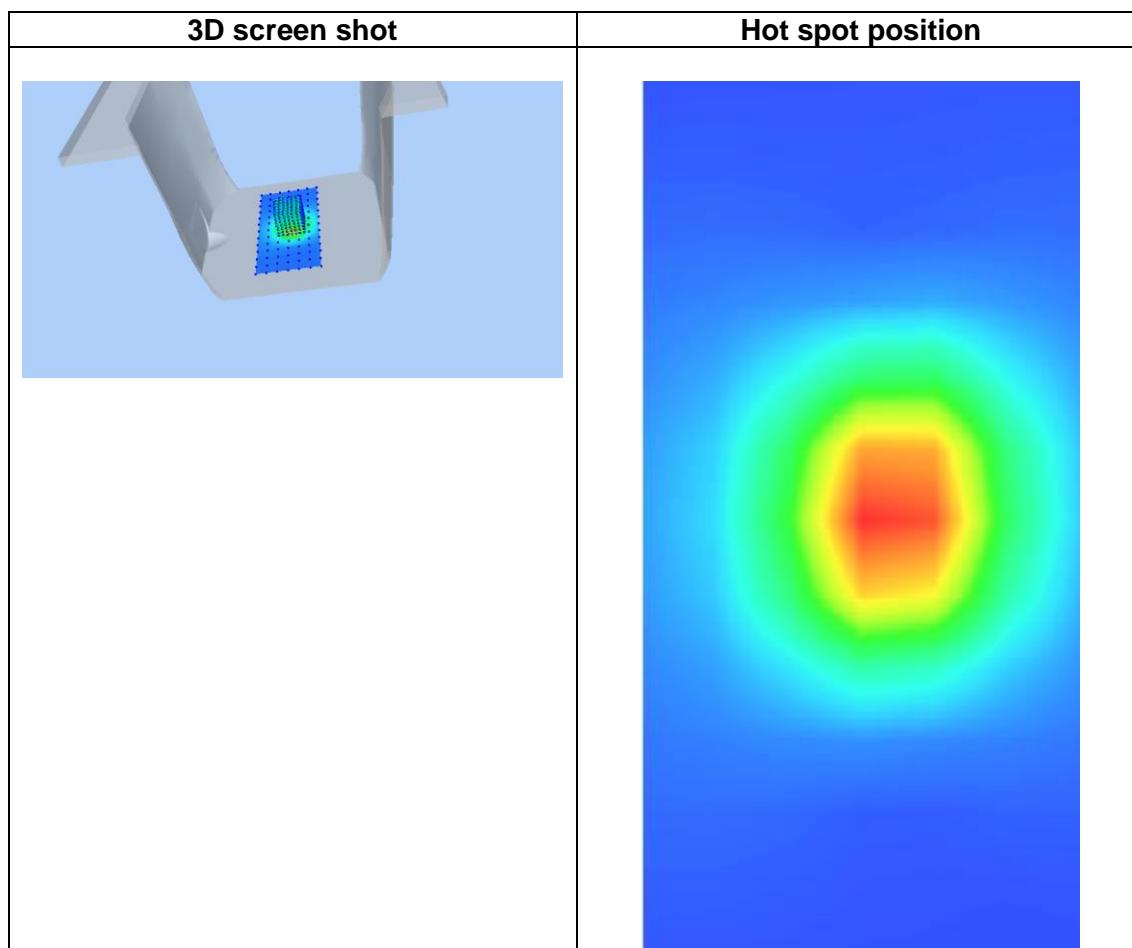
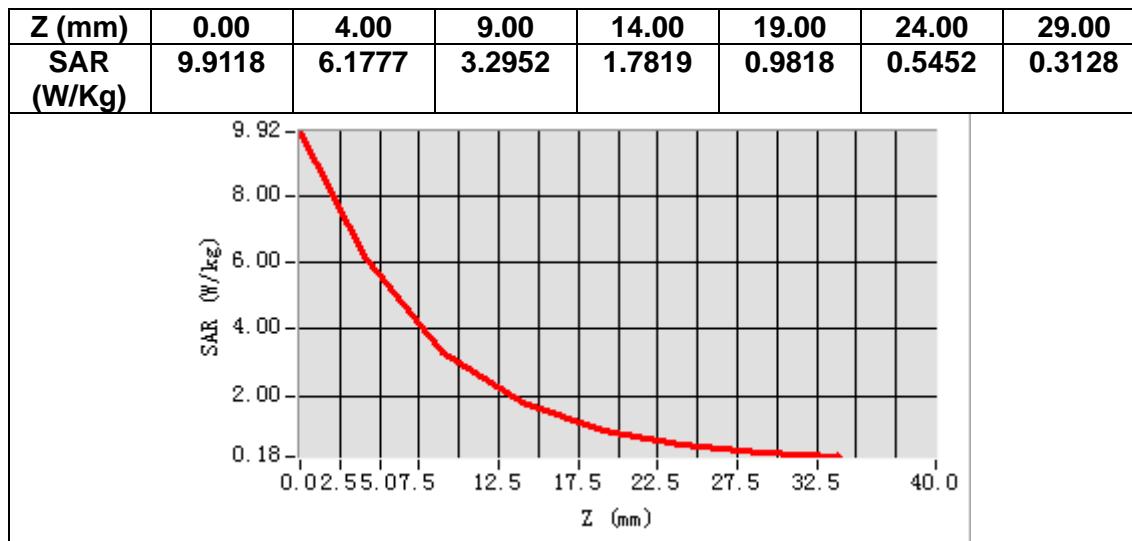
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.912866
Relative permittivity (imaginary part)	15.310101
Conductivity (S/m)	2.213465
Variation (%)	-1.220000



Maximum location: X=0.00, Y=2.00
SAR Peak: 9.99 W/kg

SAR 10g (W/Kg)	2.342324
SAR 1g (W/Kg)	5.603188



MEASUREMENT 13

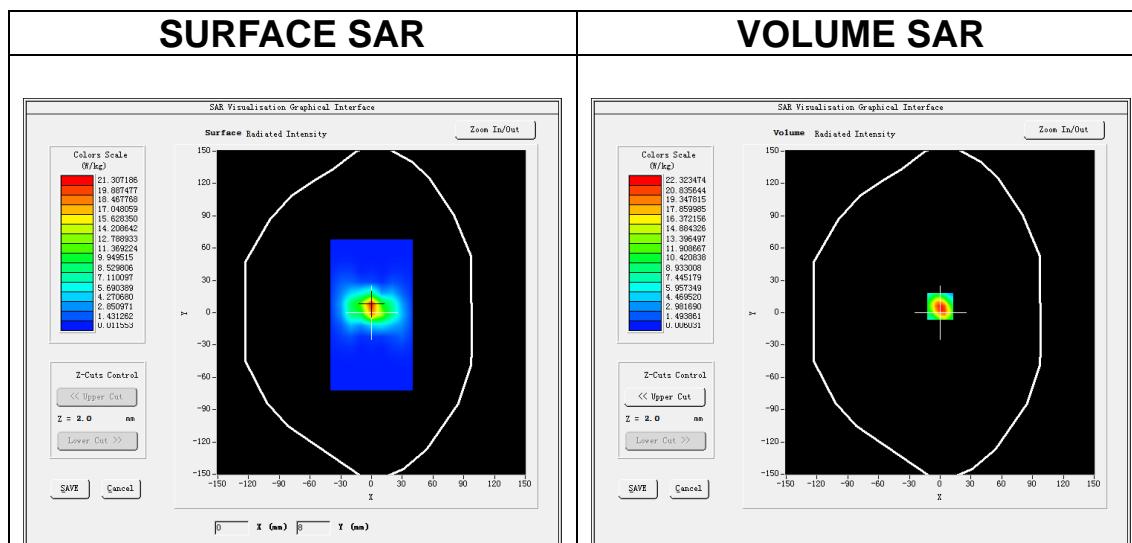
Date of measurement: 6/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=10\text{mm}$ $dy=10\text{mm}$, $h= 2.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$7\times7\times12, dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5200</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

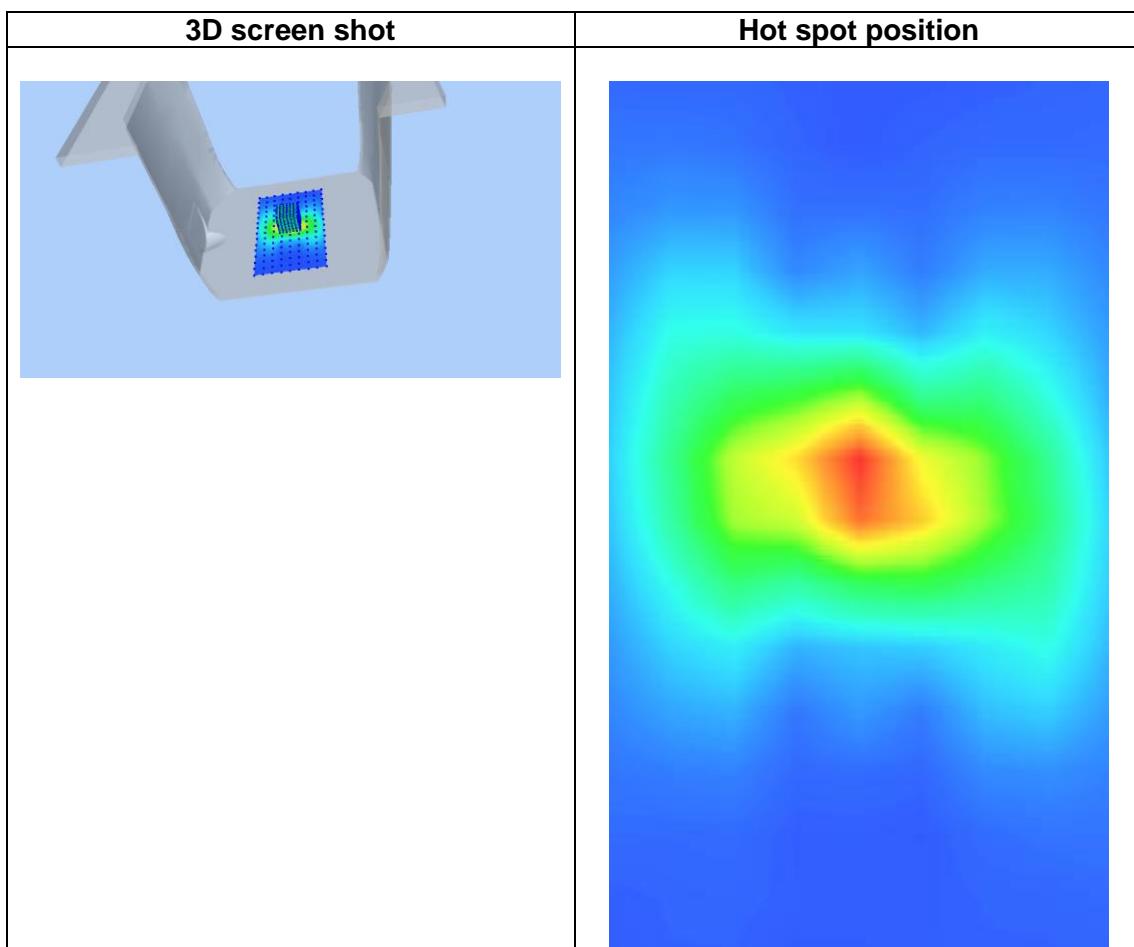
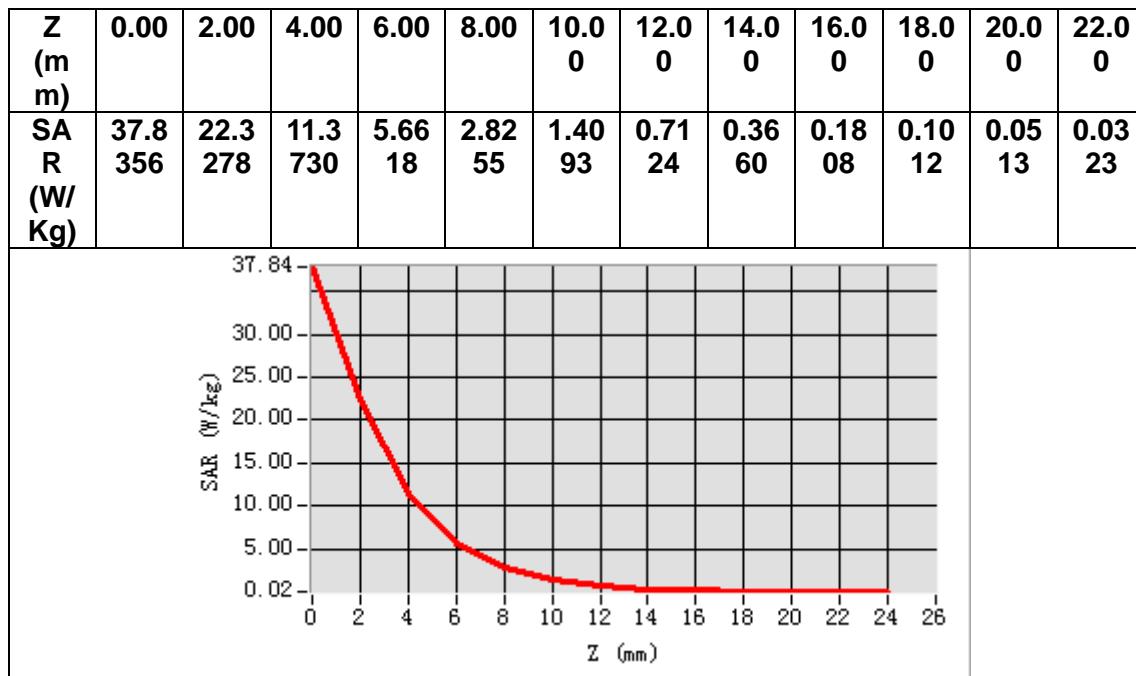
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.762204
Relative permittivity (imaginary part)	16.023542
Conductivity (S/m)	4.632321
Variation (%)	1.660000



Maximum location: X=0.00, Y=6.00
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.457495
SAR 1g (W/Kg)	15.855221



MEASUREMENT 14

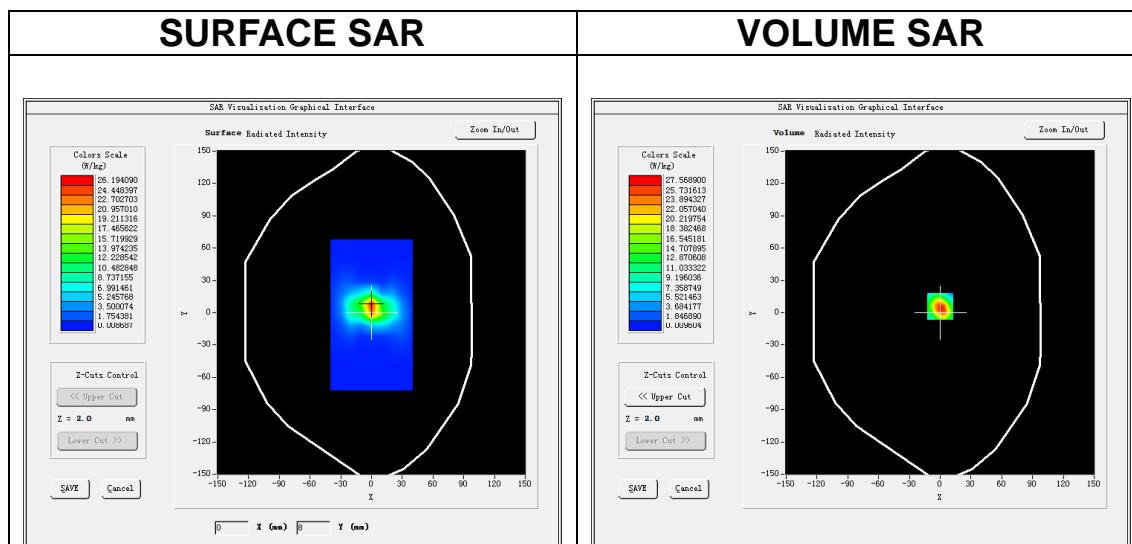
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

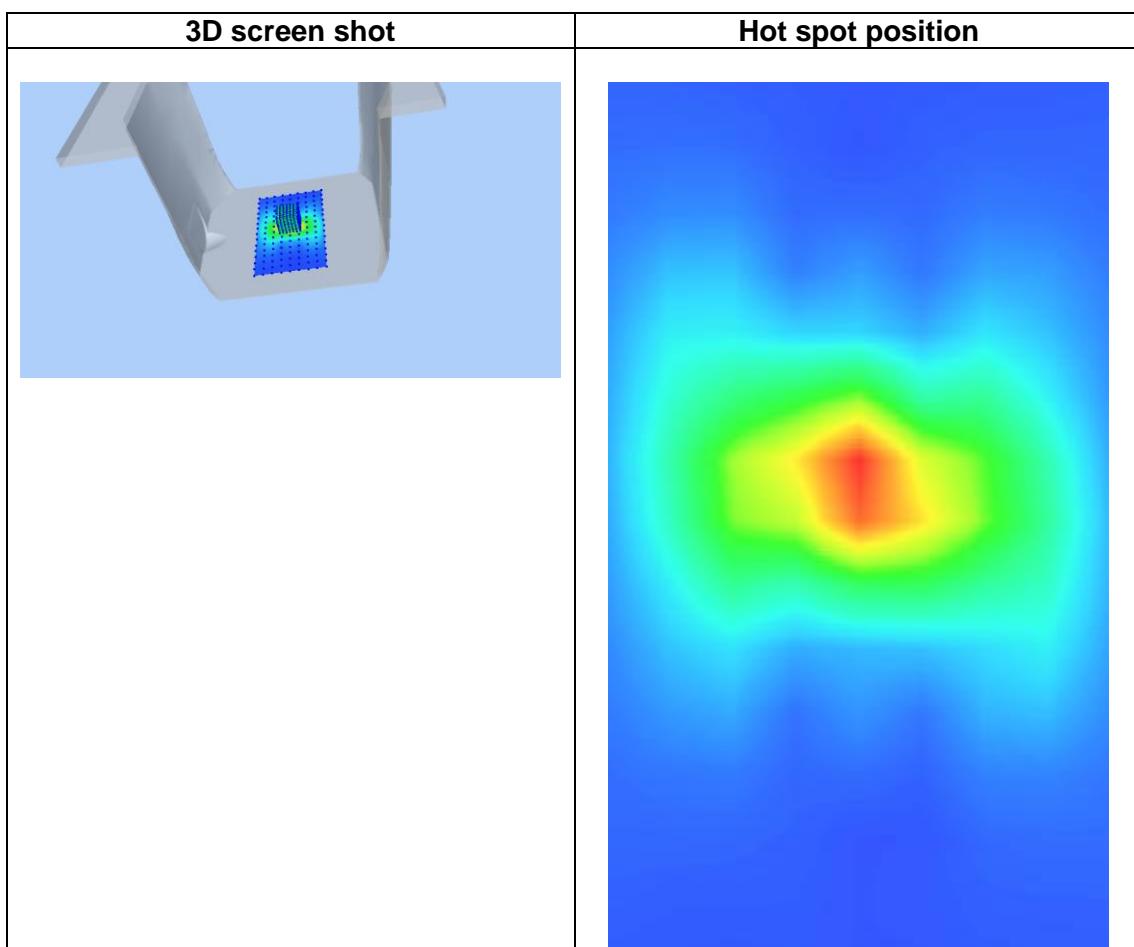
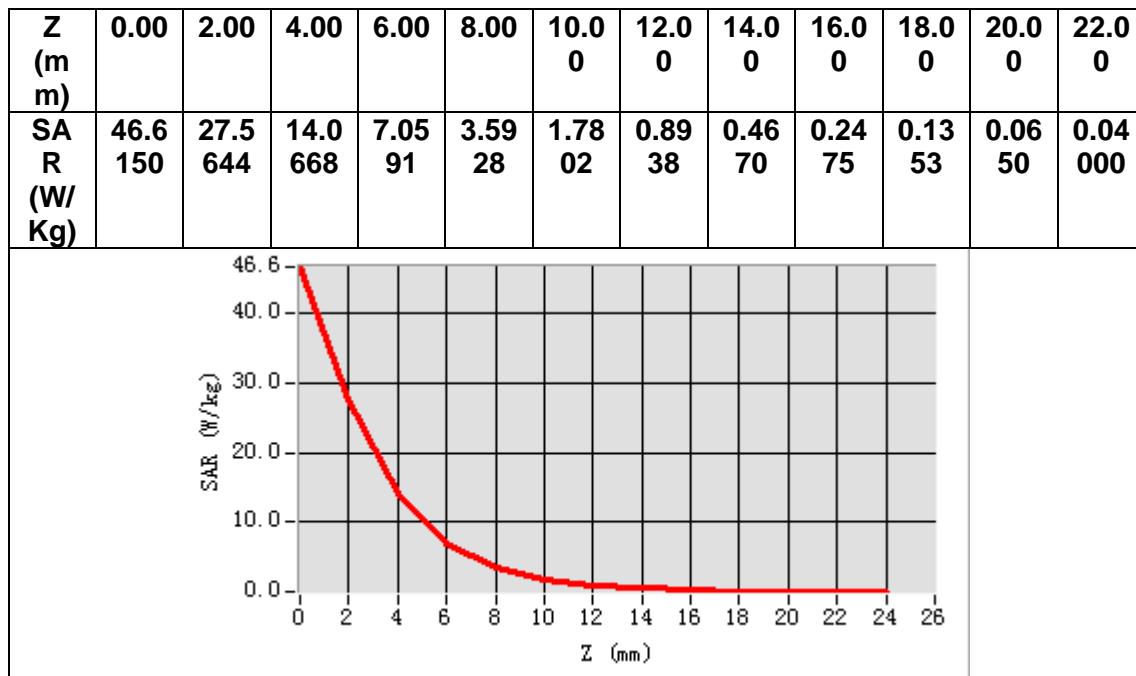
Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.772845
Relative permittivity (imaginary part)	18.151441
Conductivity (S/m)	5.243842
Variation (%)	4.490000



Maximum location: X=0.00, Y=6.00

SAR Peak: 49.61 W/kg

SAR 10g (W/Kg)	5.528184
SAR 1g (W/Kg)	15.985246



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

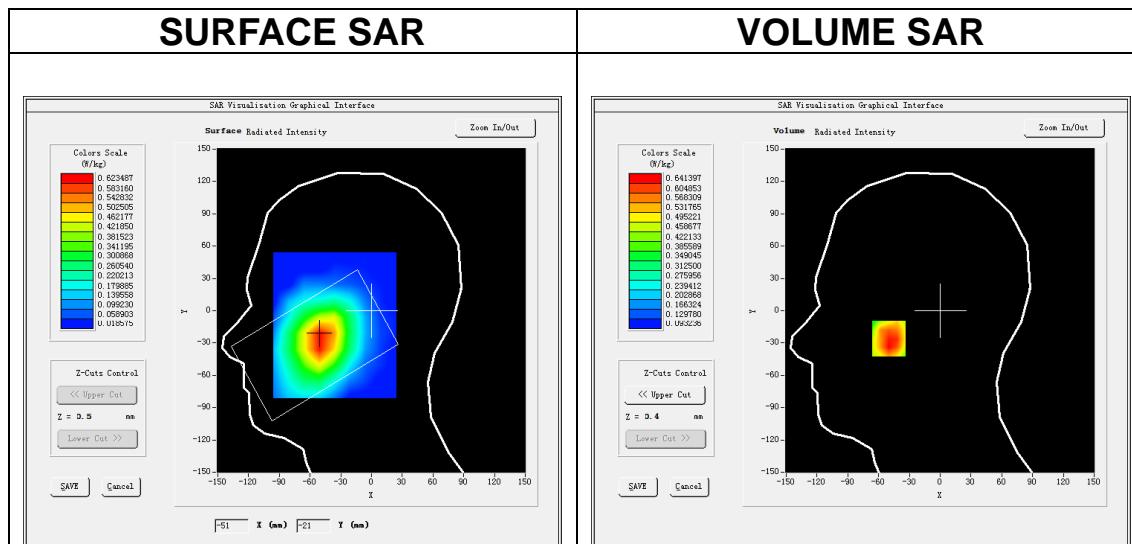
Date of measurement: 15/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

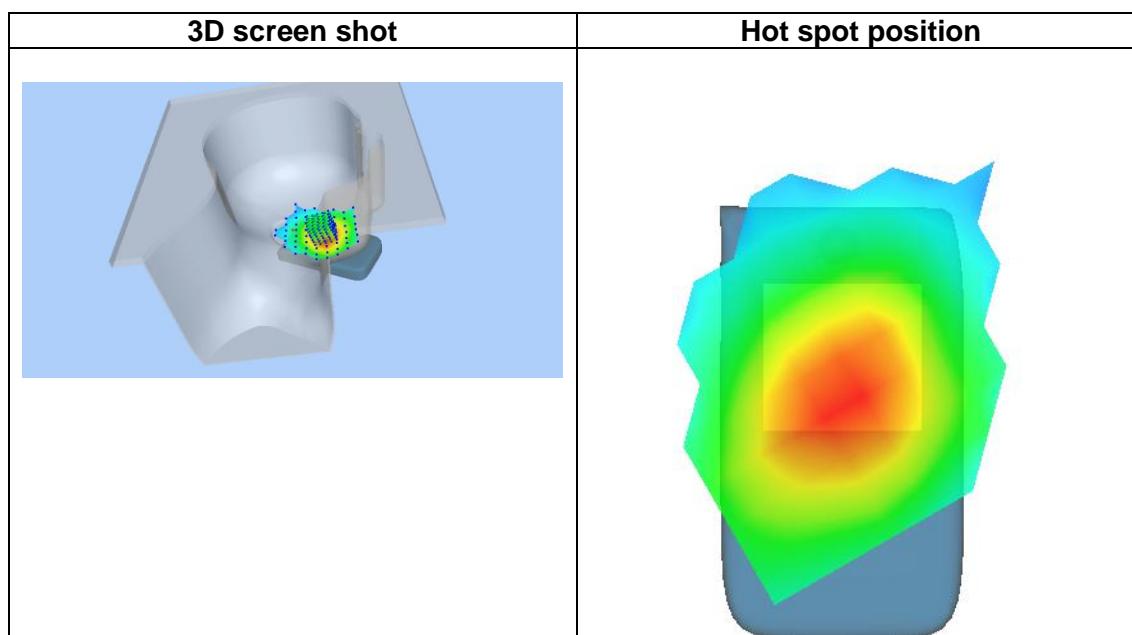
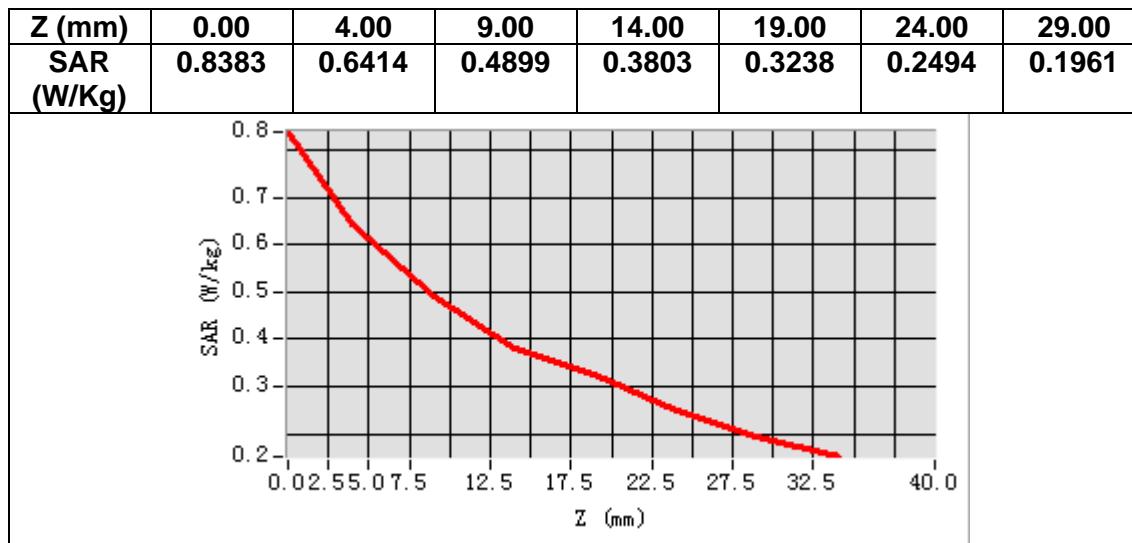
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	54.851810
Relative permittivity (imaginary part)	20.970476
Conductivity (S/m)	0.974428
Variation (%)	4.210000



Maximum location: X=-50.00, Y=-26.00
SAR Peak: 0.87 W/kg

SAR 10g (W/Kg)	0.459467
SAR 1g (W/Kg)	0.639311



MEASUREMENT 2

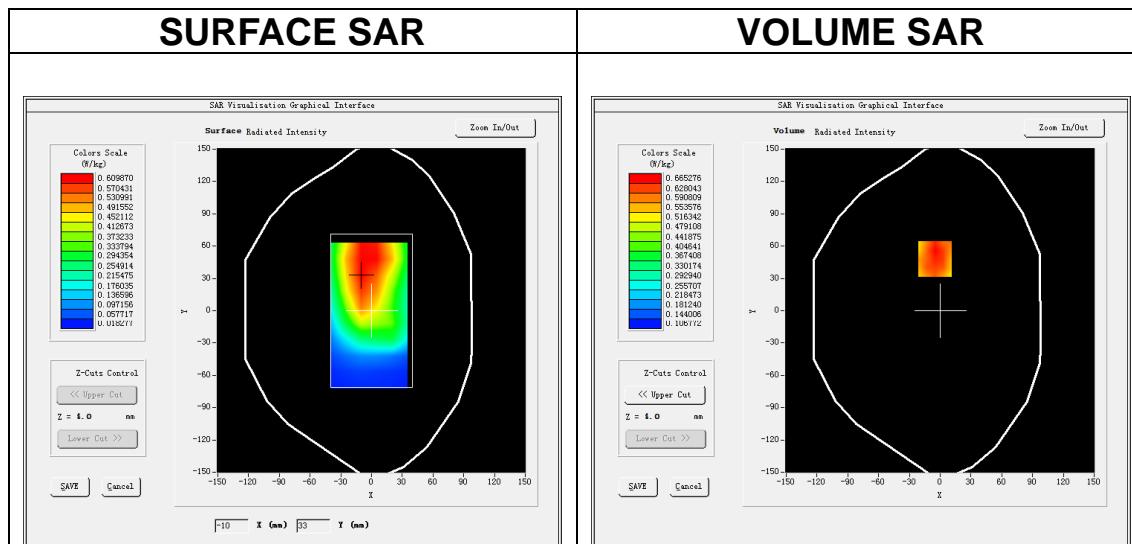
Date of measurement: 14/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

B. SAR Measurement Results

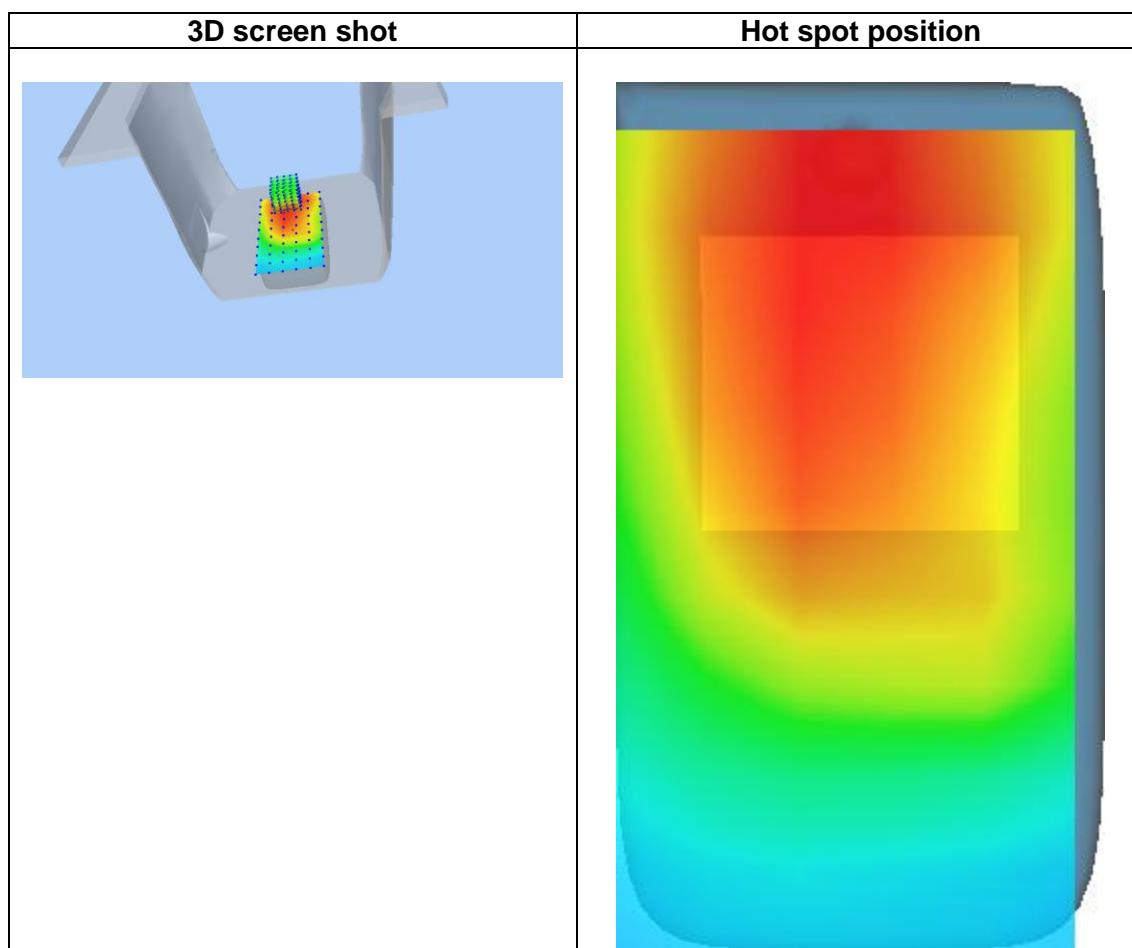
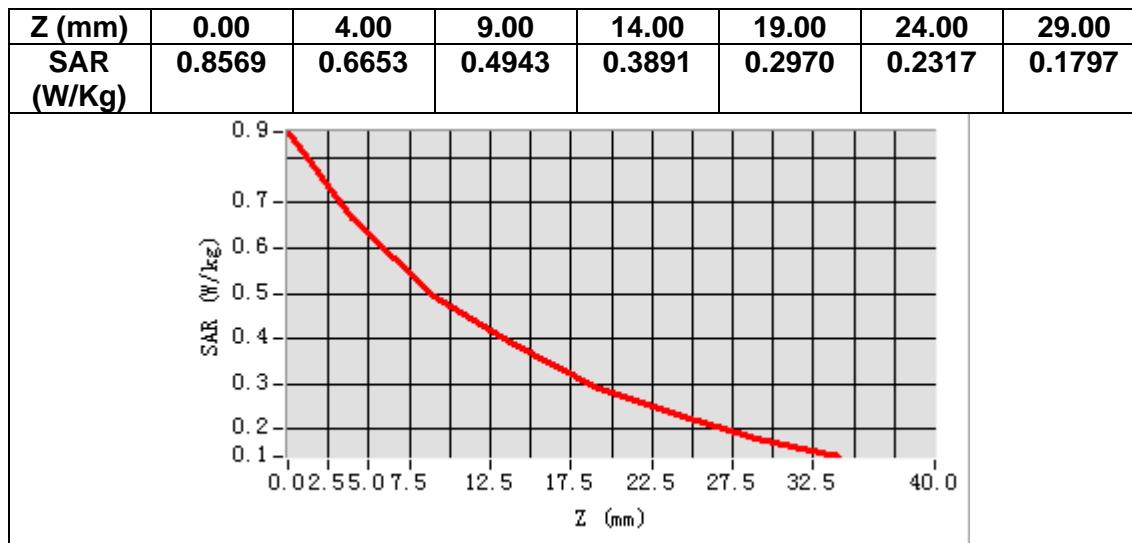
Frequency (MHz)	836.400000
Relative permittivity (real part)	54.851810
Relative permittivity (imaginary part)	20.970476
Conductivity (S/m)	0.974428
Variation (%)	-1.140000



Maximum location: X=-5.00, Y=48.00

SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.468890
SAR 1g (W/Kg)	0.643457



MEASUREMENT 3

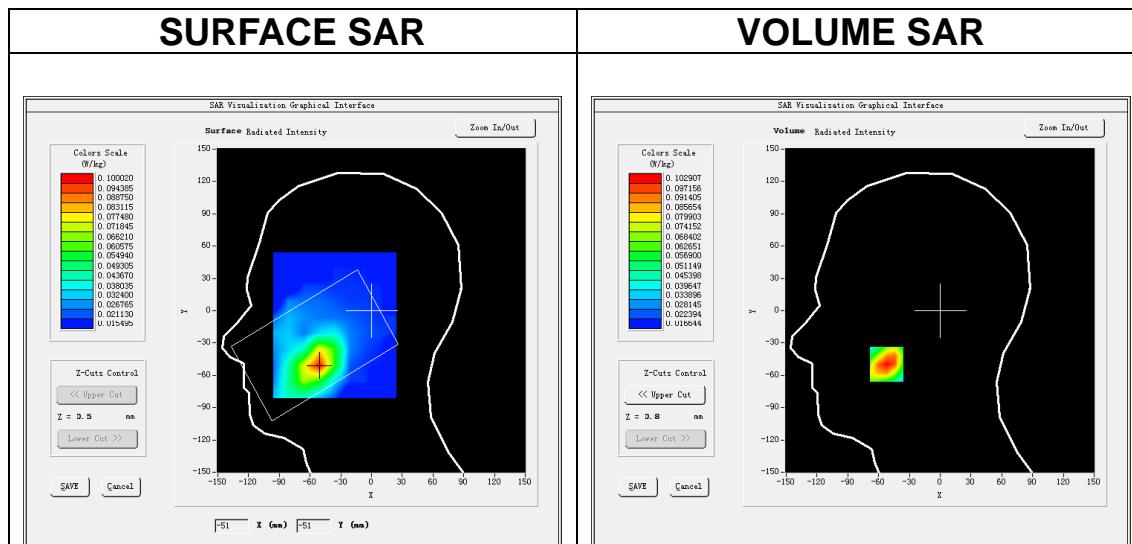
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

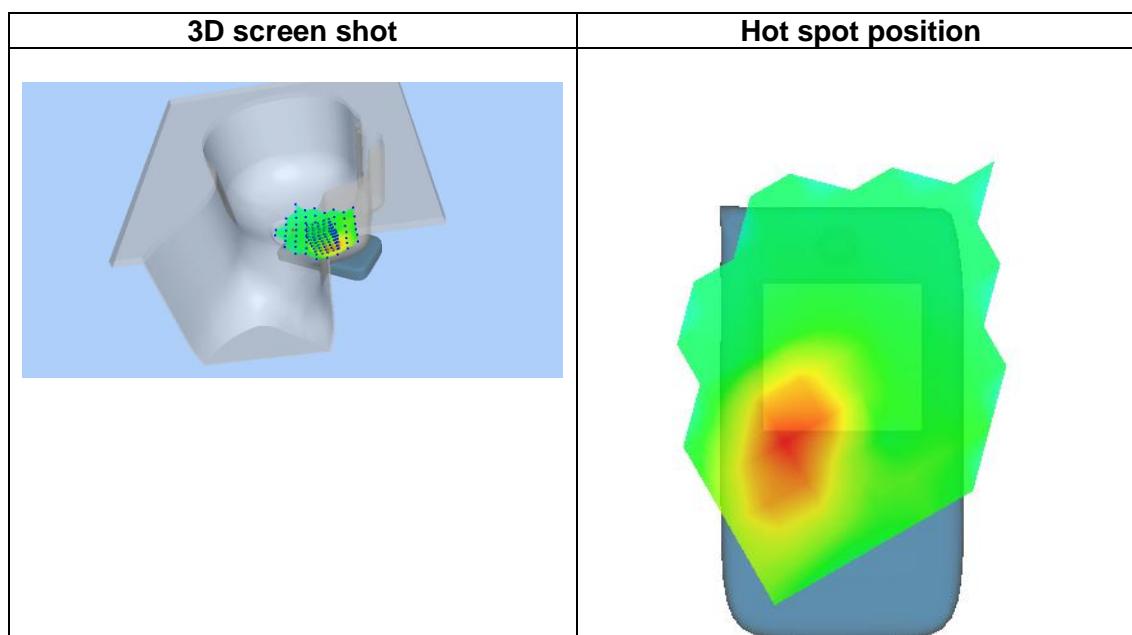
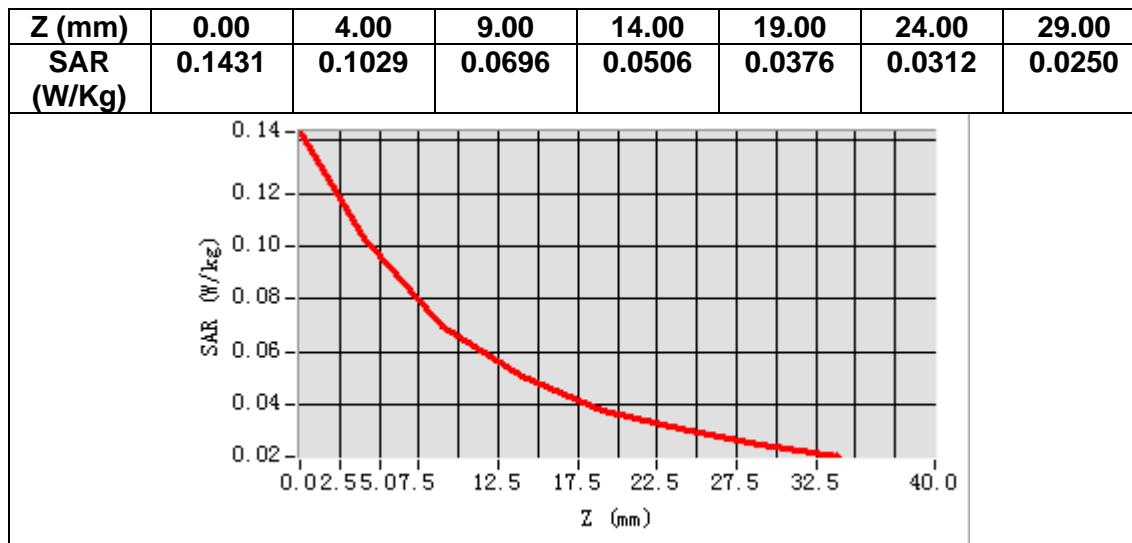
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	4.210000



Maximum location: X=-52.00, Y=-50.00
SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.062229
SAR 1g (W/Kg)	0.097918



MEASUREMENT 4

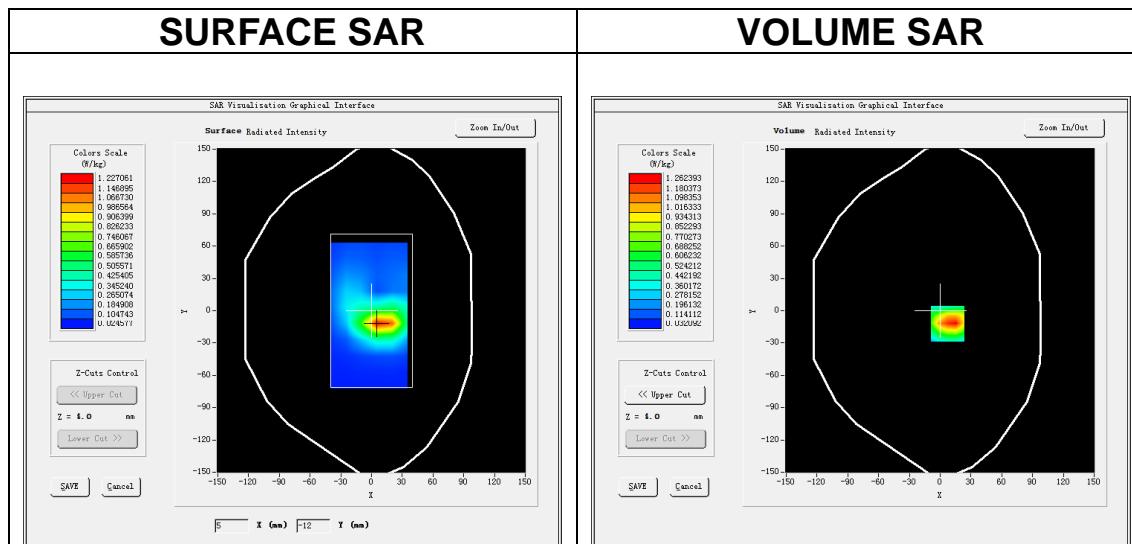
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

B. SAR Measurement Results

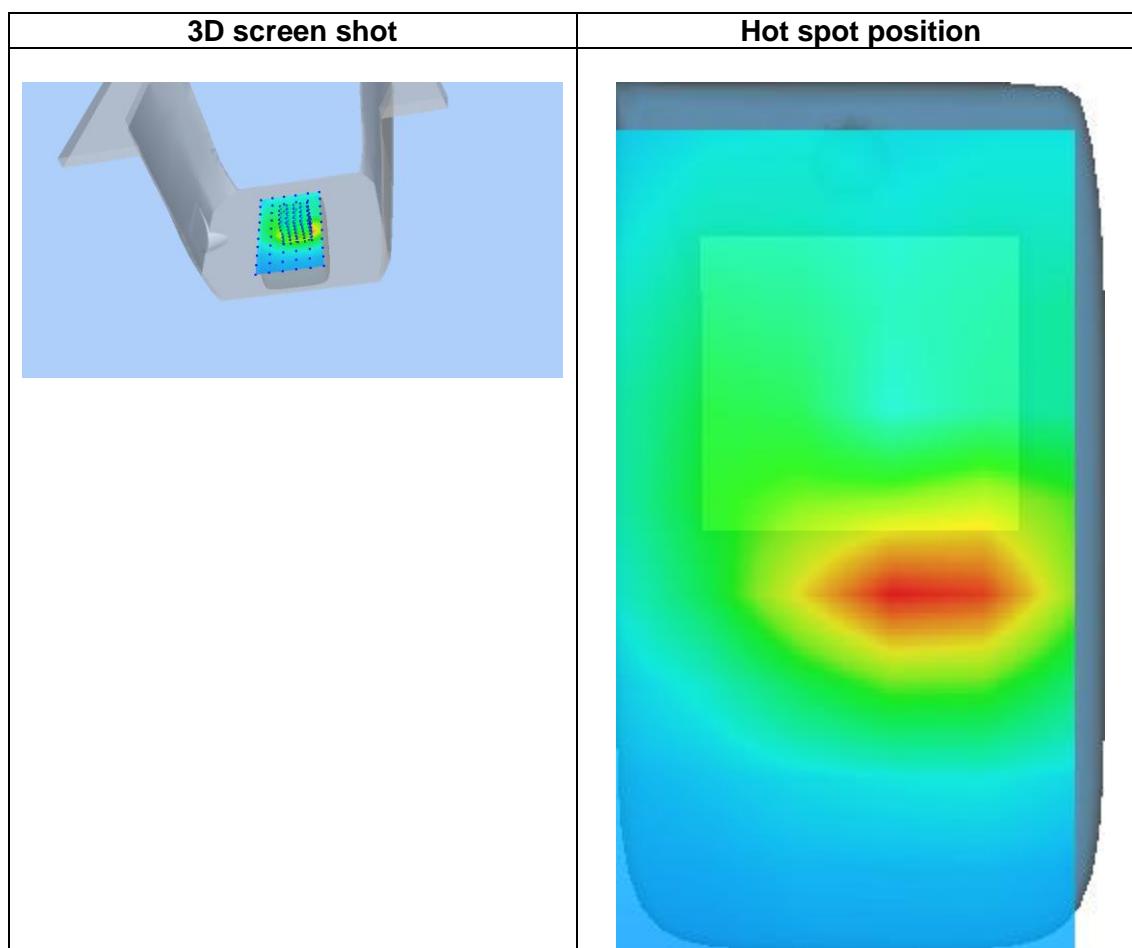
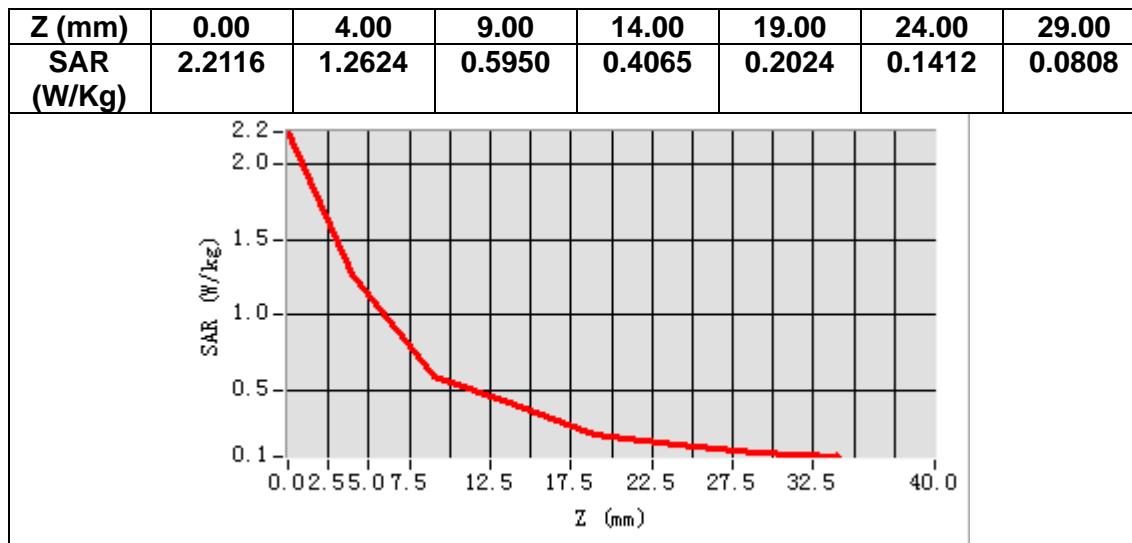
Frequency (MHz)	1909.800000
Relative permittivity (real part)	54.376381
Relative permittivity (imaginary part)	14.421120
Conductivity (S/m)	1.529921
Variation (%)	0.290000



Maximum location: X=7.00, Y=-12.00

SAR Peak: 1.97 W/kg

SAR 10g (W/Kg)	0.610342
SAR 1g (W/Kg)	1.070412



MEASUREMENT 5

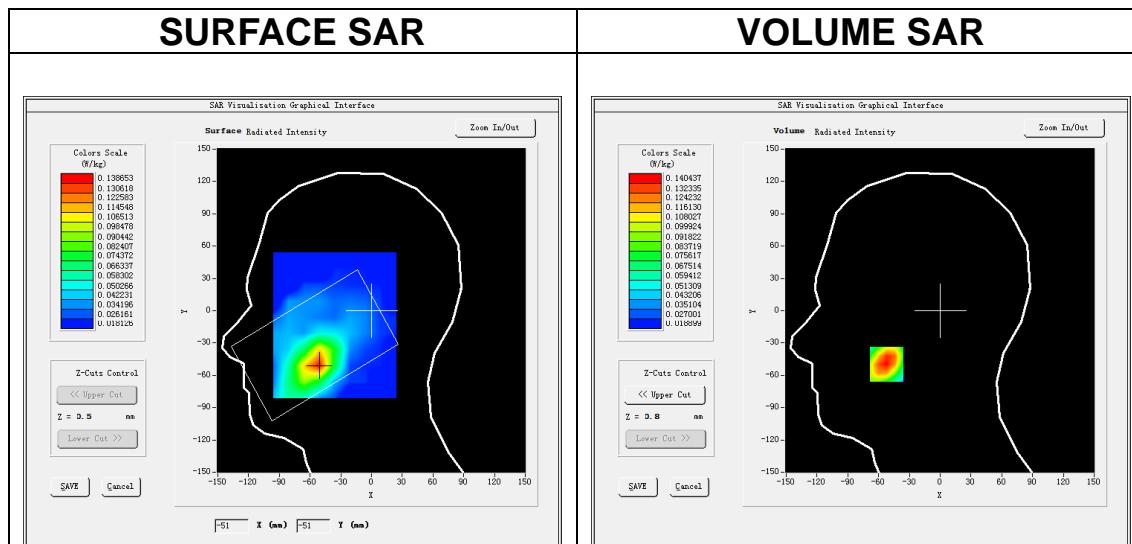
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

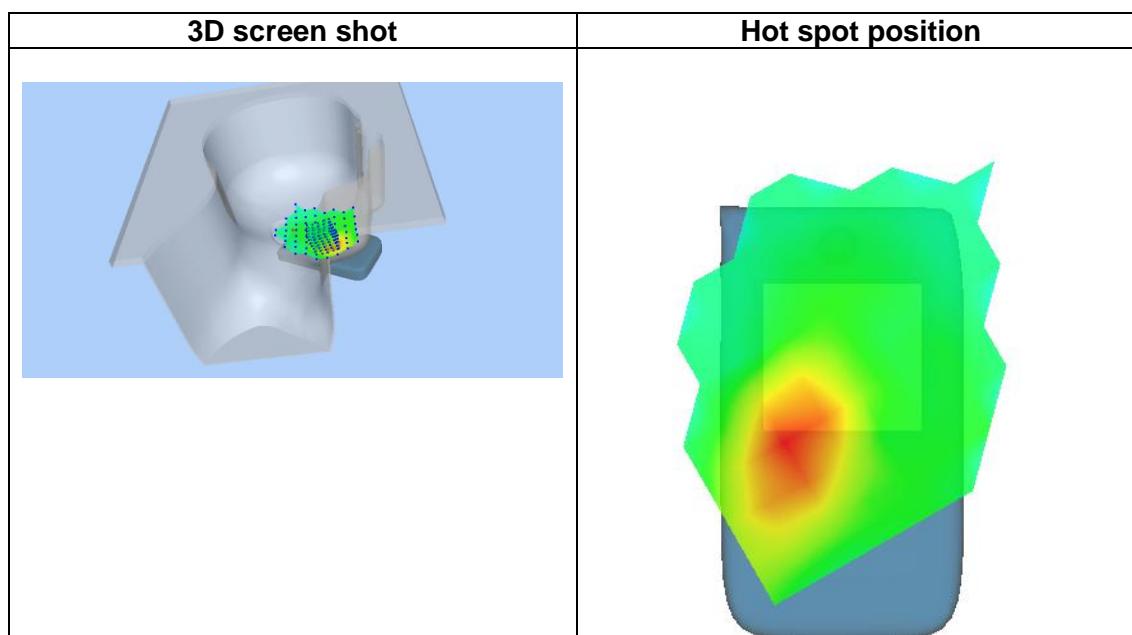
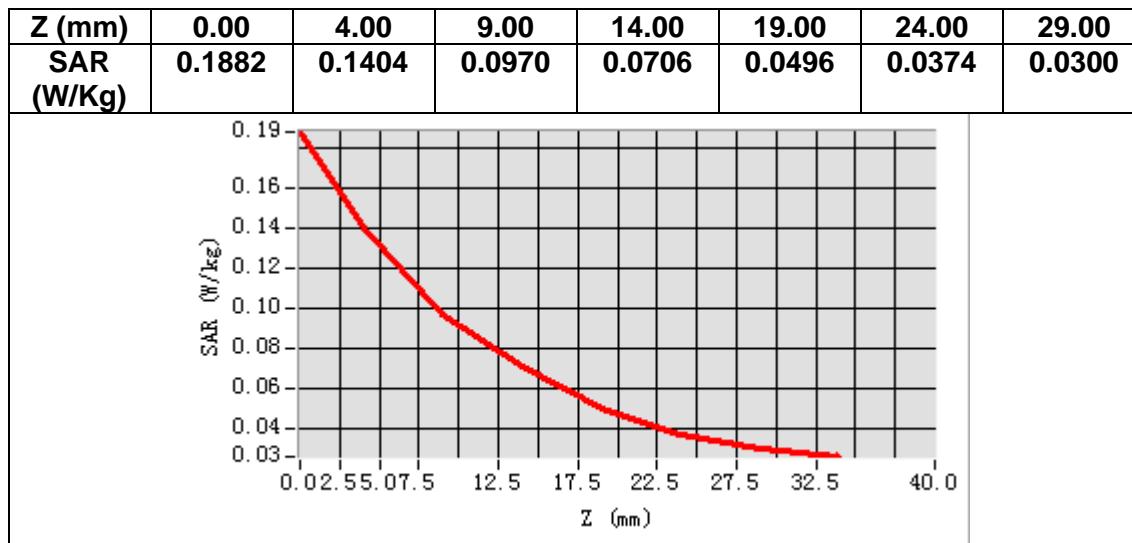
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	1.050000



Maximum location: X=-52.00, Y=-50.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.085207
SAR 1g (W/Kg)	0.134307



MEASUREMENT 6

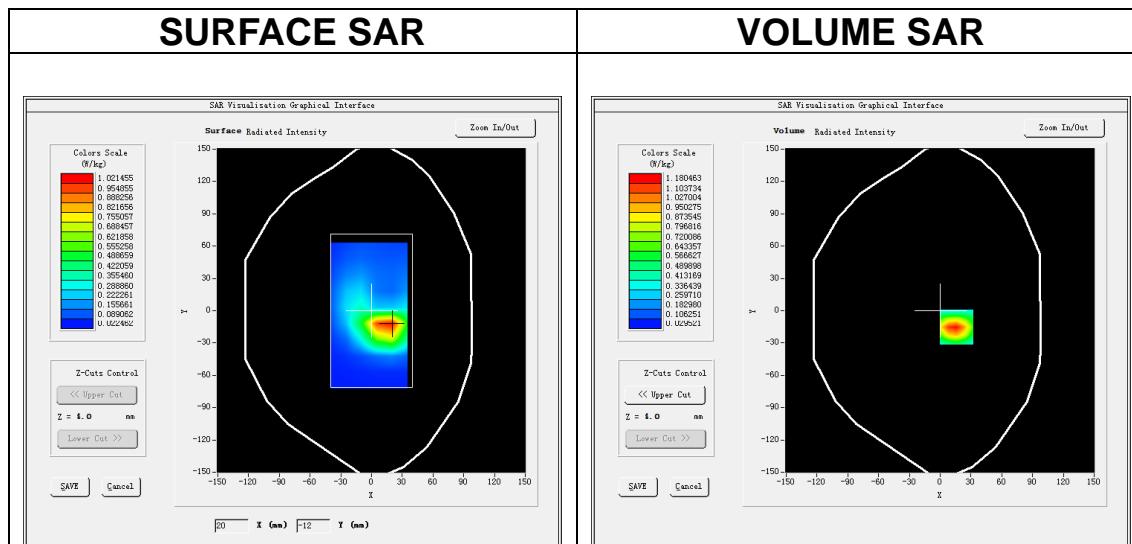
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

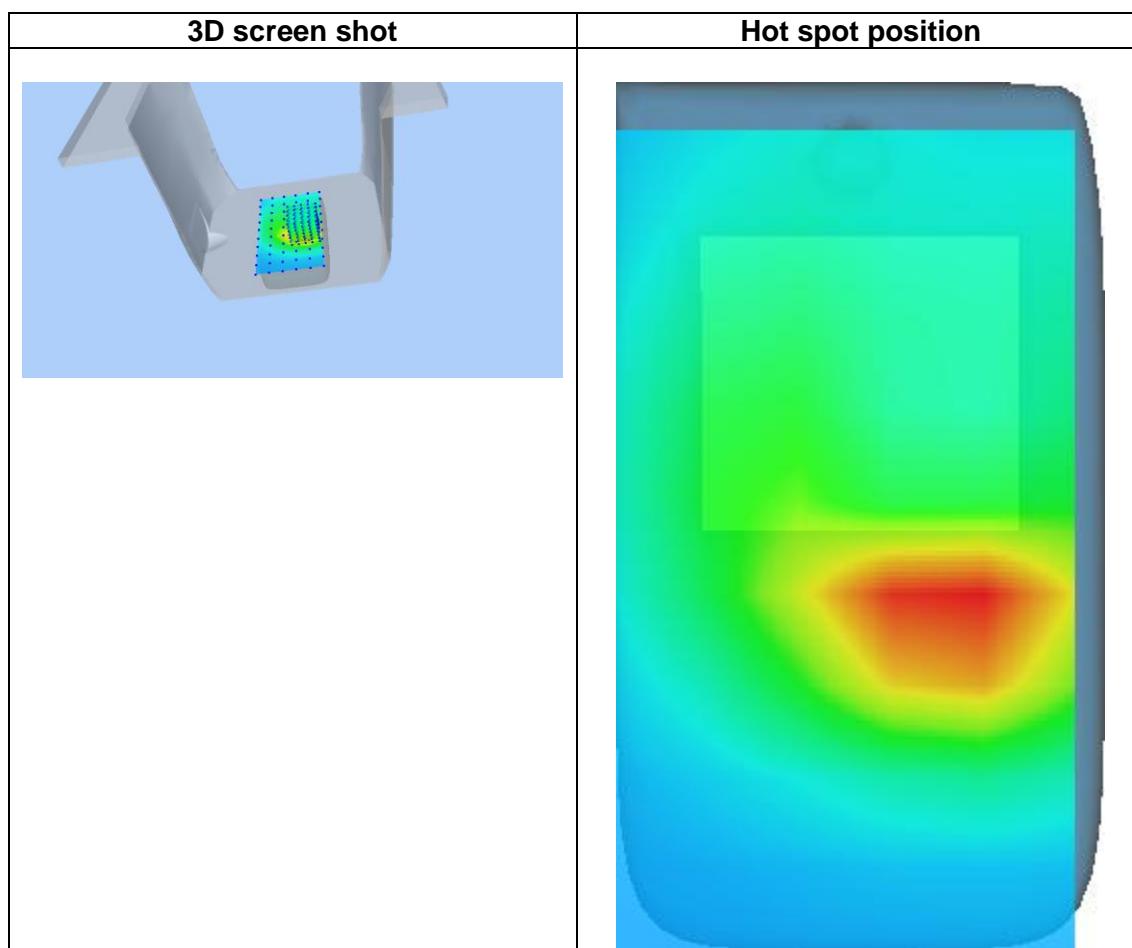
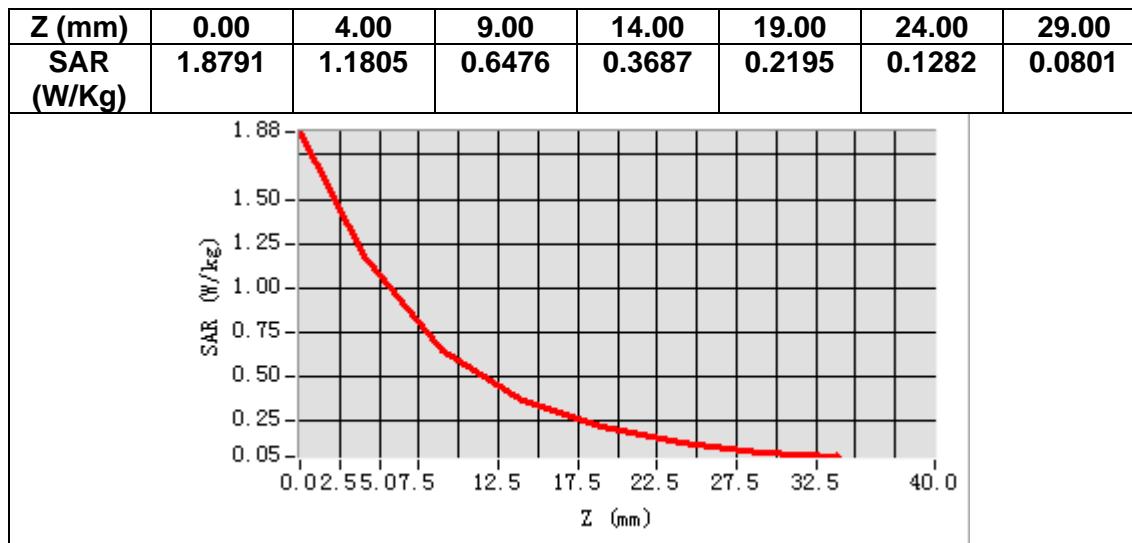
B. SAR Measurement Results

Frequency (MHz)	1907.600000
Relative permittivity (real part)	39.073151
Relative permittivity (imaginary part)	13.397776
Conductivity (S/m)	1.419867
Variation (%)	-0.720000



Maximum location: $X=16.00$, $Y=-15.00$
SAR Peak: 1.88 W/kg

SAR 10g (W/Kg)	0.573122
SAR 1g (W/Kg)	1.016664



MEASUREMENT 7

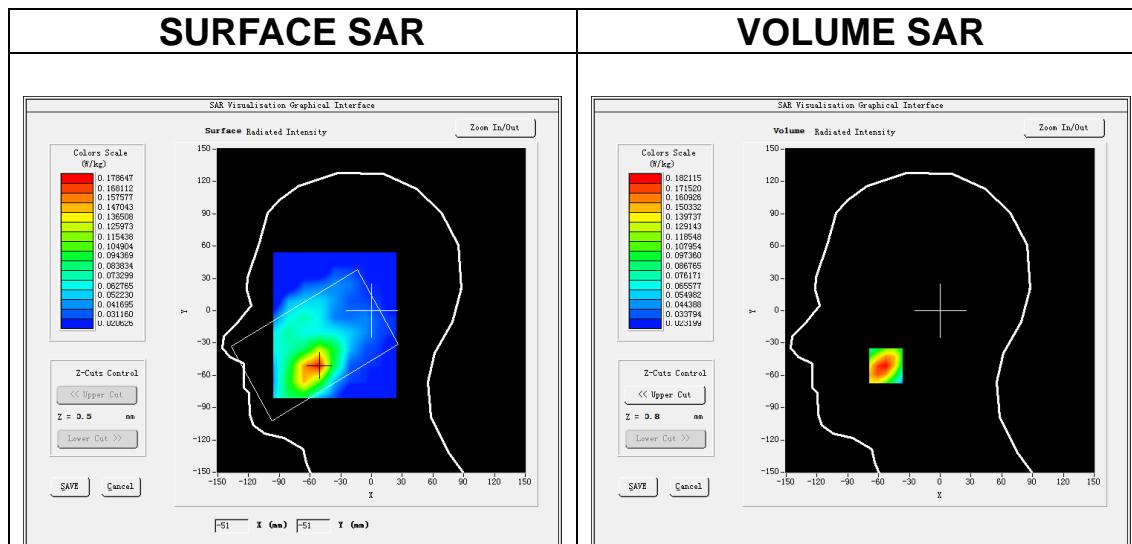
Date of measurement: 15/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

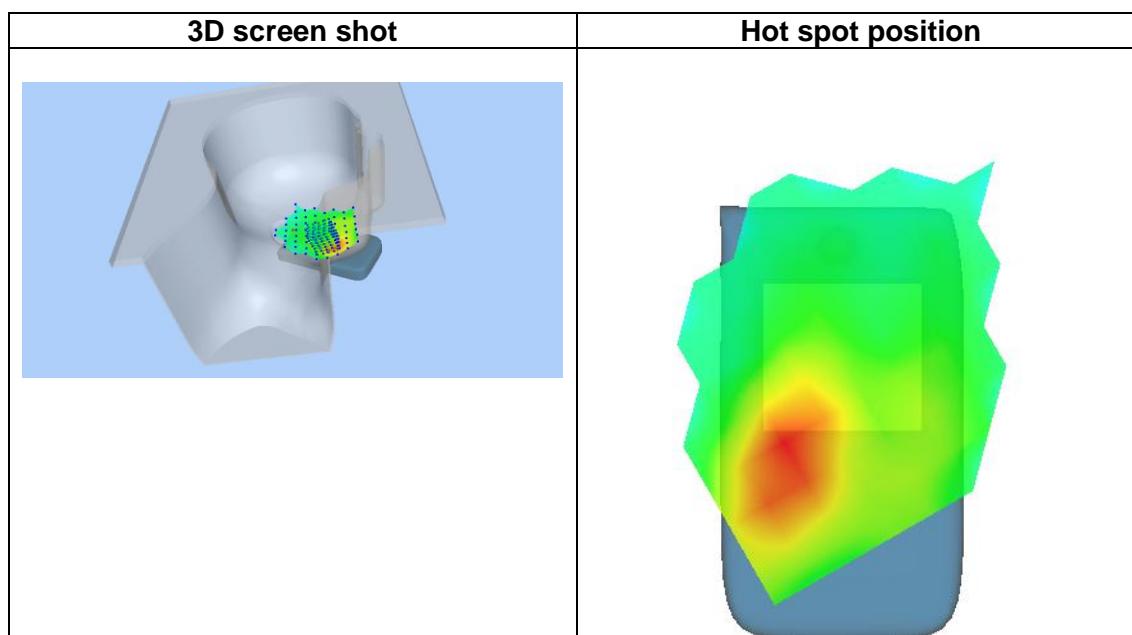
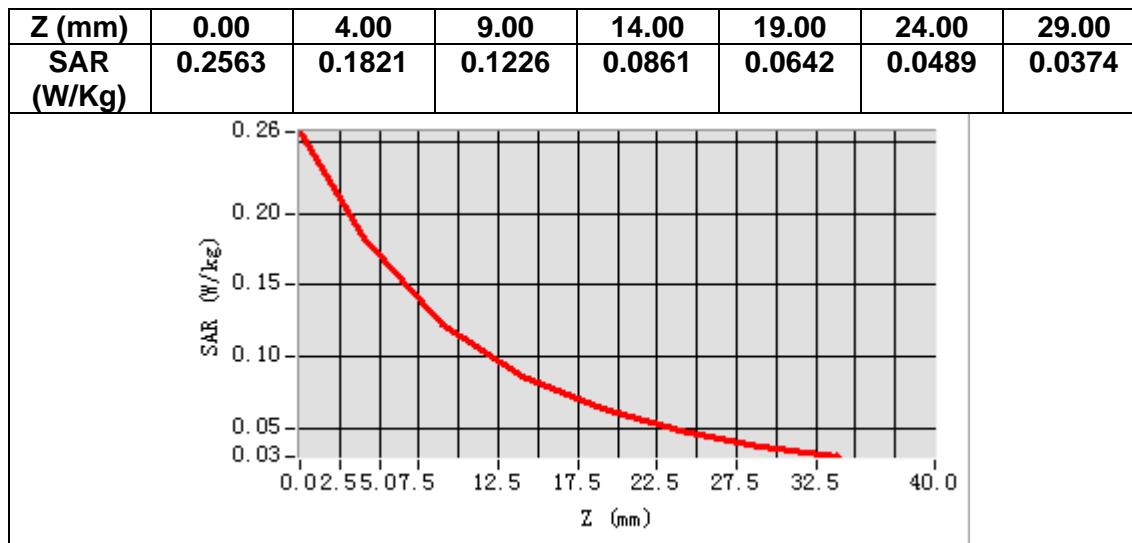
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.429623
Relative permittivity (imaginary part)	13.553478
Conductivity (S/m)	1.304146
Variation (%)	2.080000



Maximum location: X=-53.00, Y=-51.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.111527
SAR 1g (W/Kg)	0.175060



MEASUREMENT 8

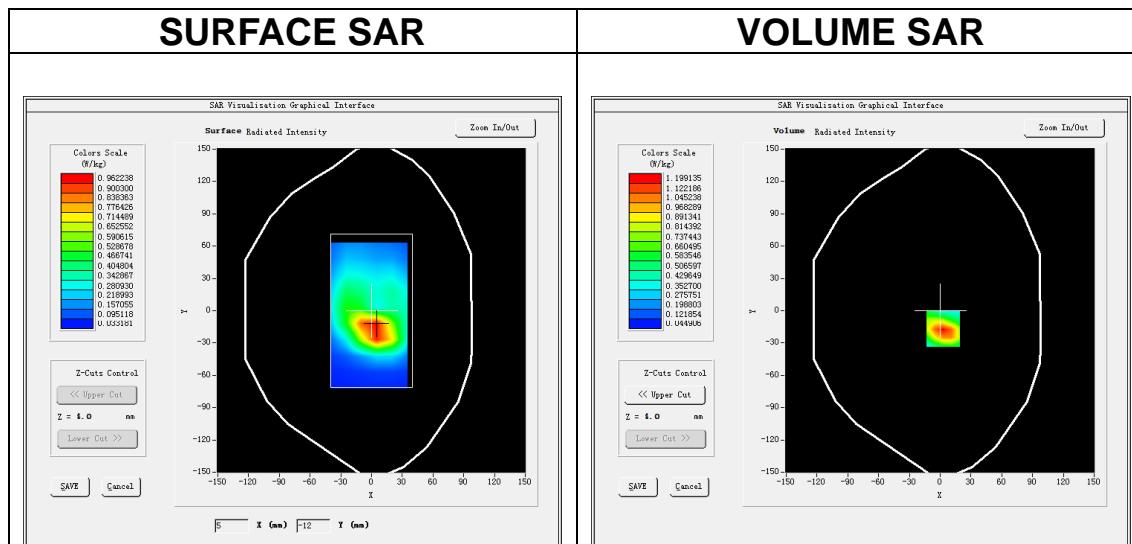
Date of measurement: 10/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

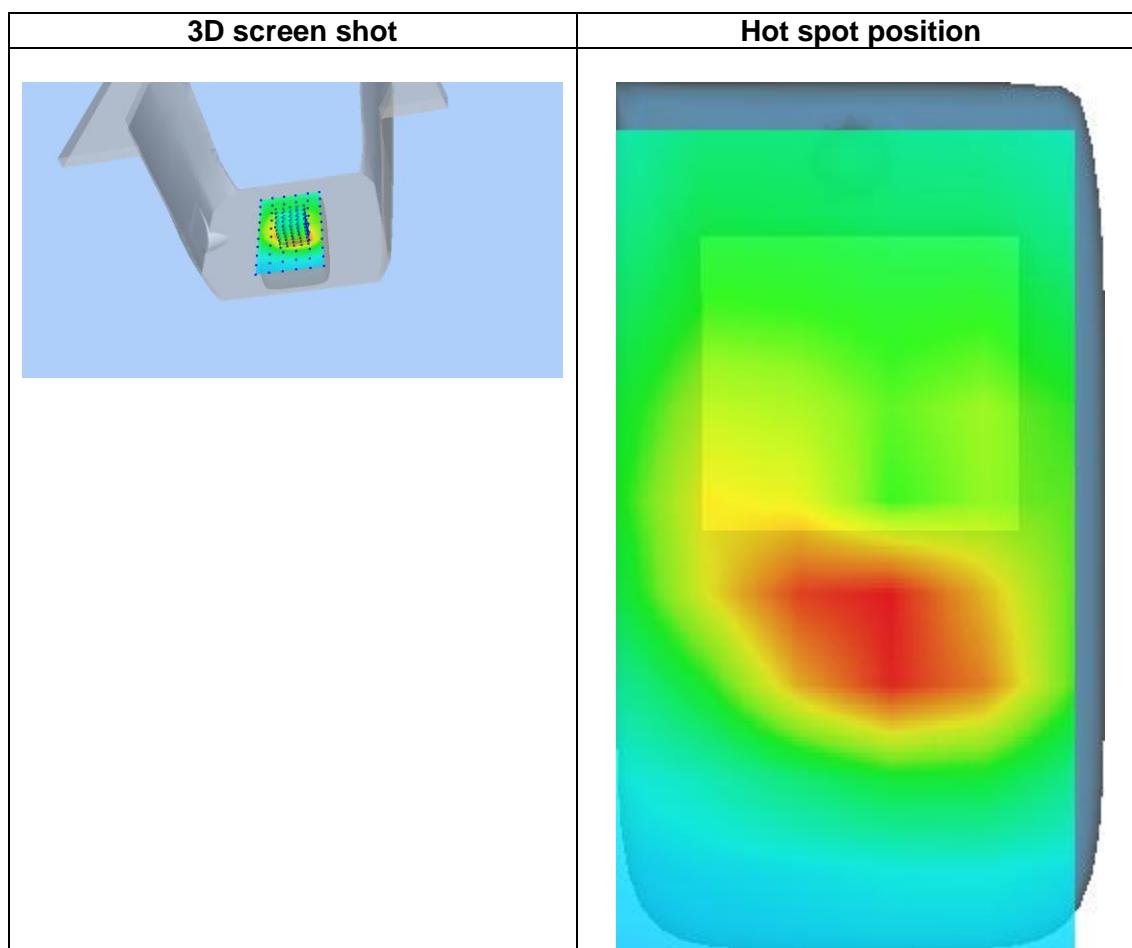
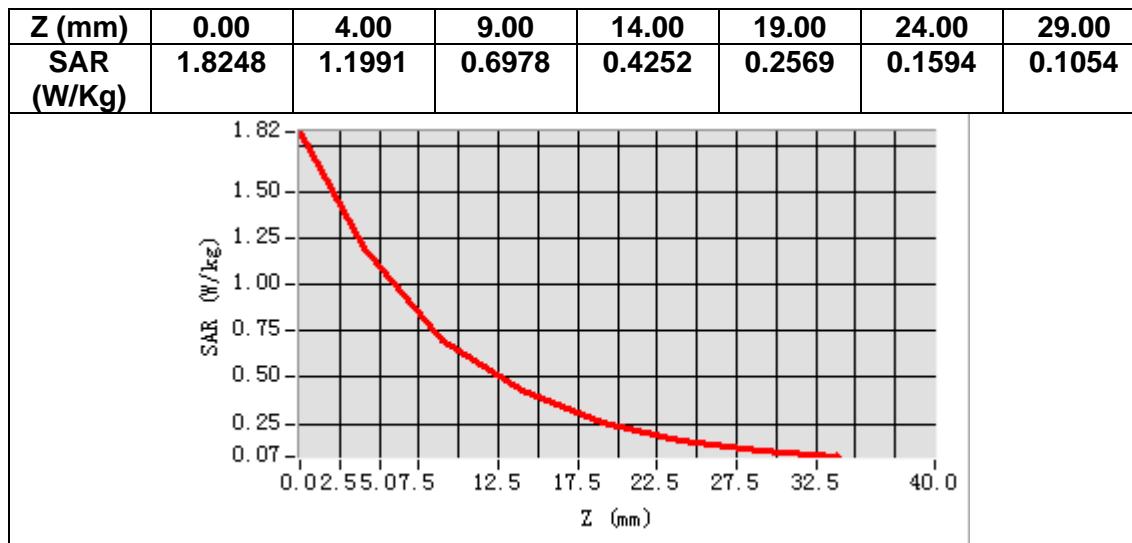
B. SAR Measurement Results

Frequency (MHz)	1752.600000
Relative permittivity (real part)	54.431366
Relative permittivity (imaginary part)	15.059170
Conductivity (S/m)	1.465759
Variation (%)	1.260000



Maximum location: X=3.00, Y=-17.00
SAR Peak: 1.82 W/kg

SAR 10g (W/Kg)	0.616642
SAR 1g (W/Kg)	1.130013



MEASUREMENT 9

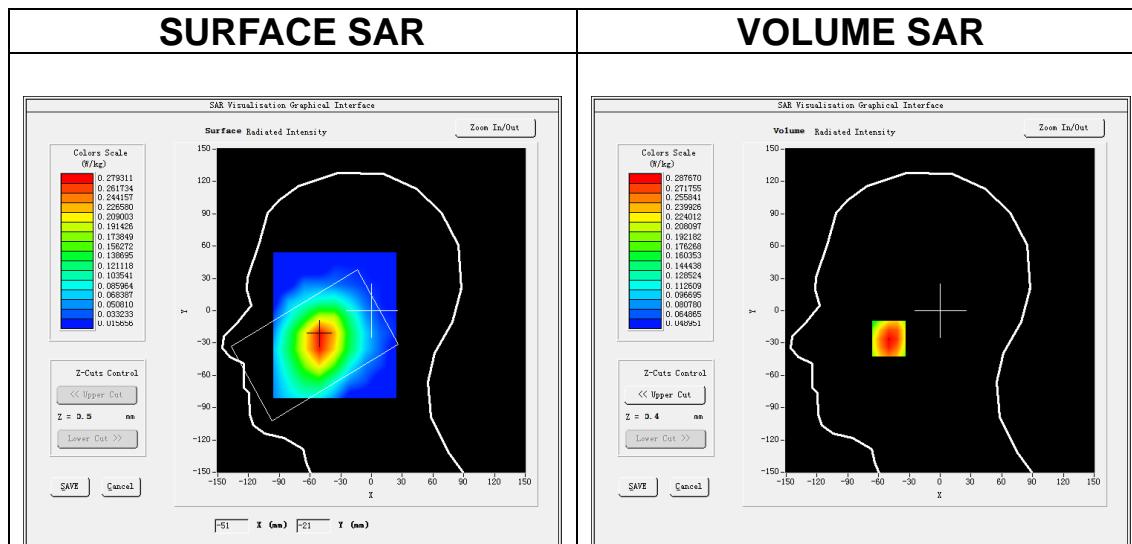
Date of measurement: 15/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

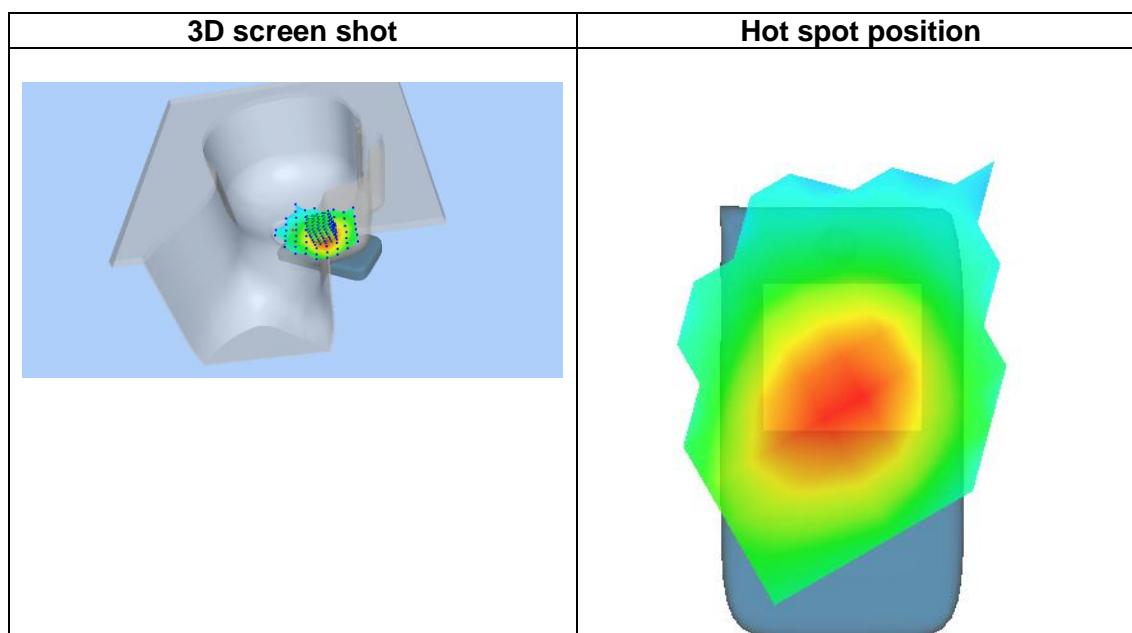
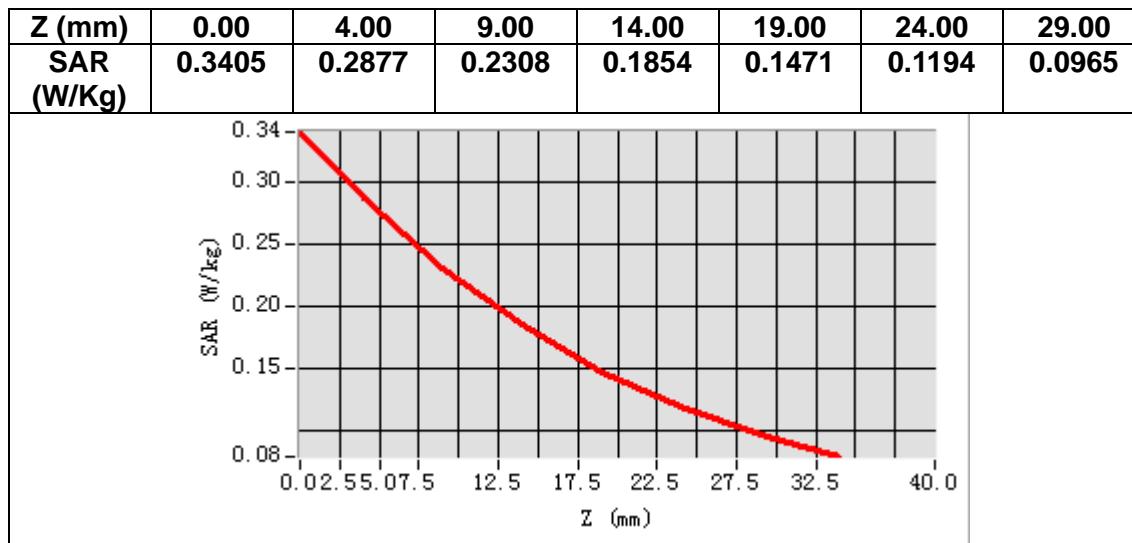
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.023190
Relative permittivity (imaginary part)	19.769276
Conductivity (S/m)	0.918612
Variation (%)	-2.130000



Maximum location: X=-50.00, Y=-26.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.210253
SAR 1g (W/Kg)	0.283315



MEASUREMENT 10

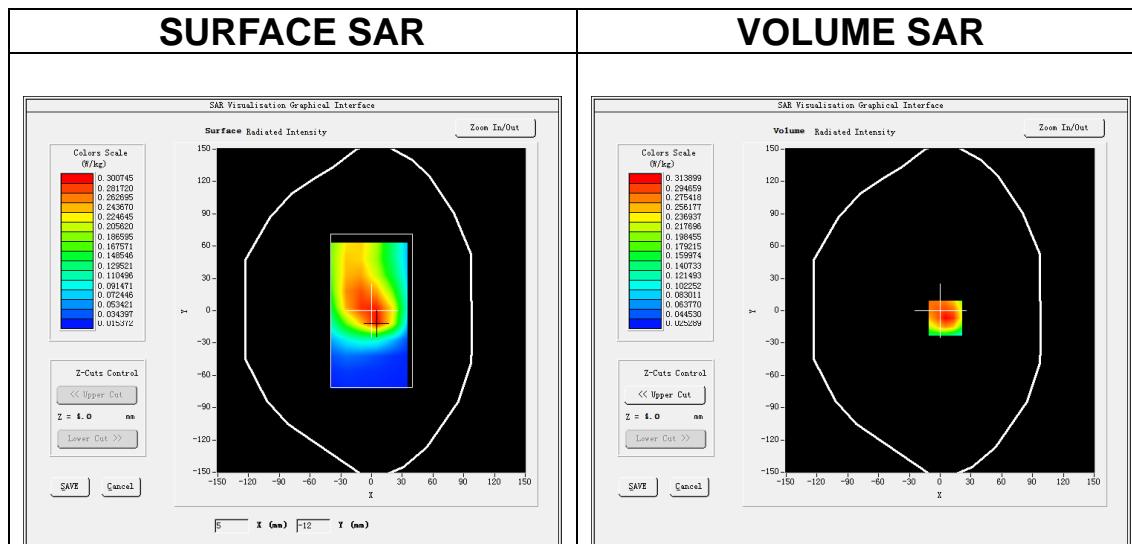
Date of measurement: 14/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

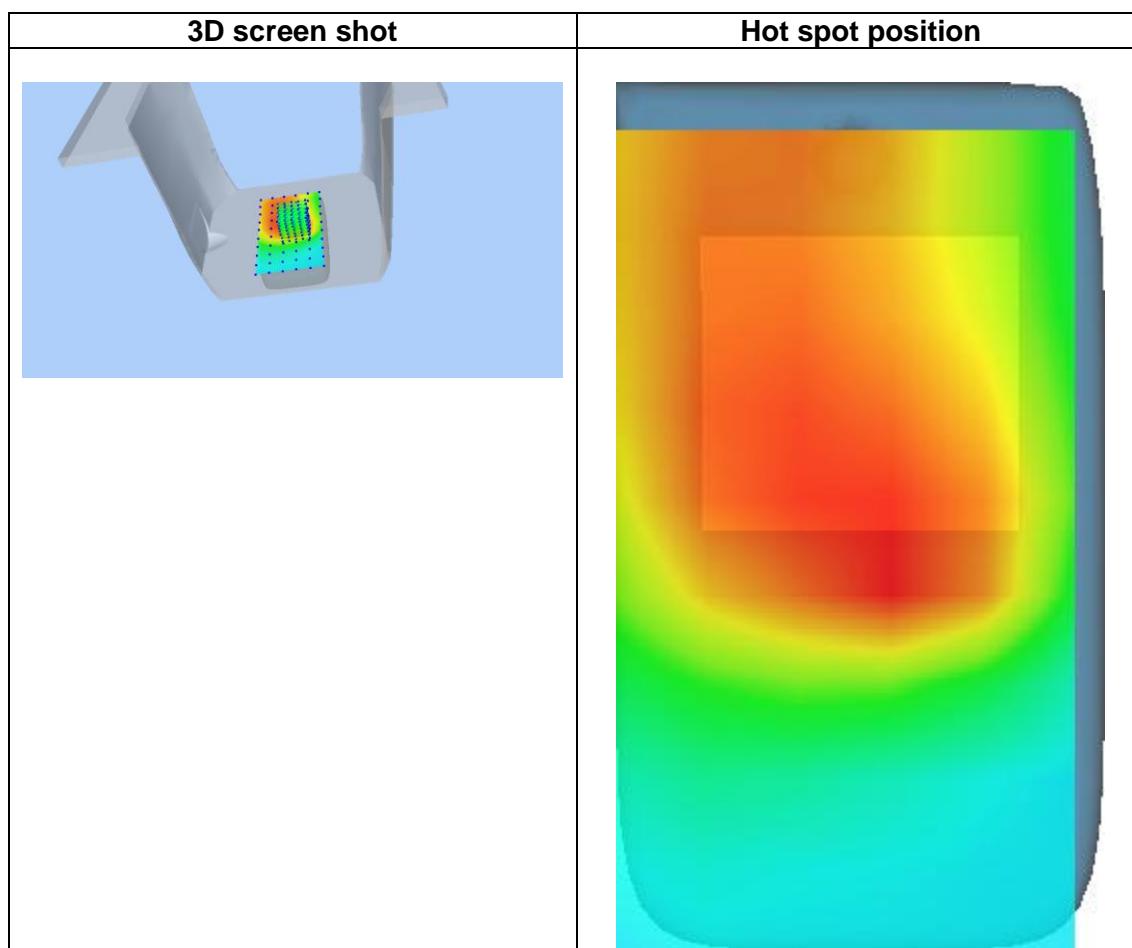
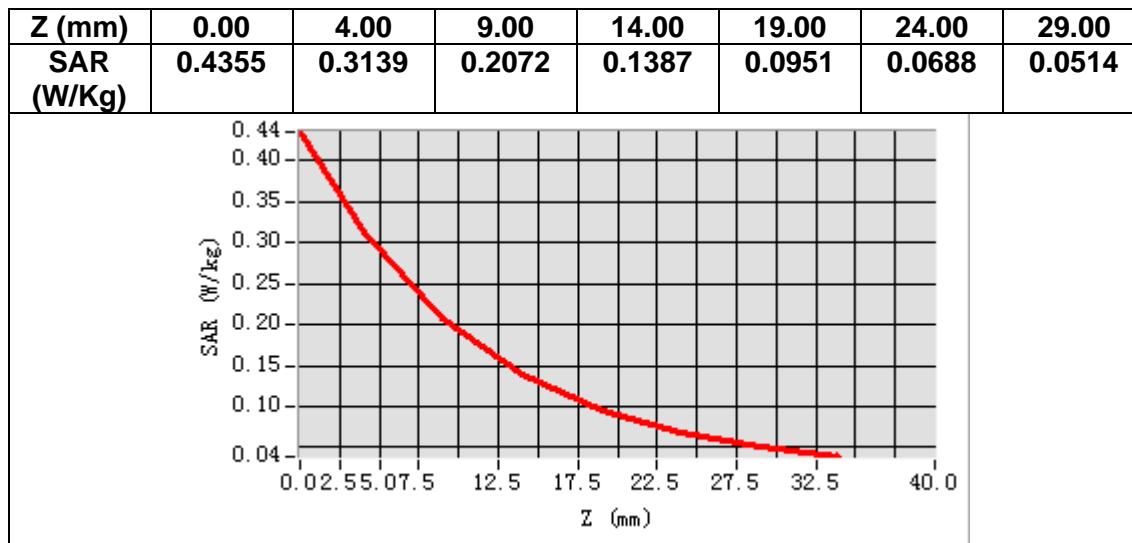
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	54.851810
Relative permittivity (imaginary part)	20.970476
Conductivity (S/m)	0.974428
Variation (%)	0.040000



Maximum location: X=5.00, Y=-7.00
SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.192159
SAR 1g (W/Kg)	0.302270



MEASUREMENT 11

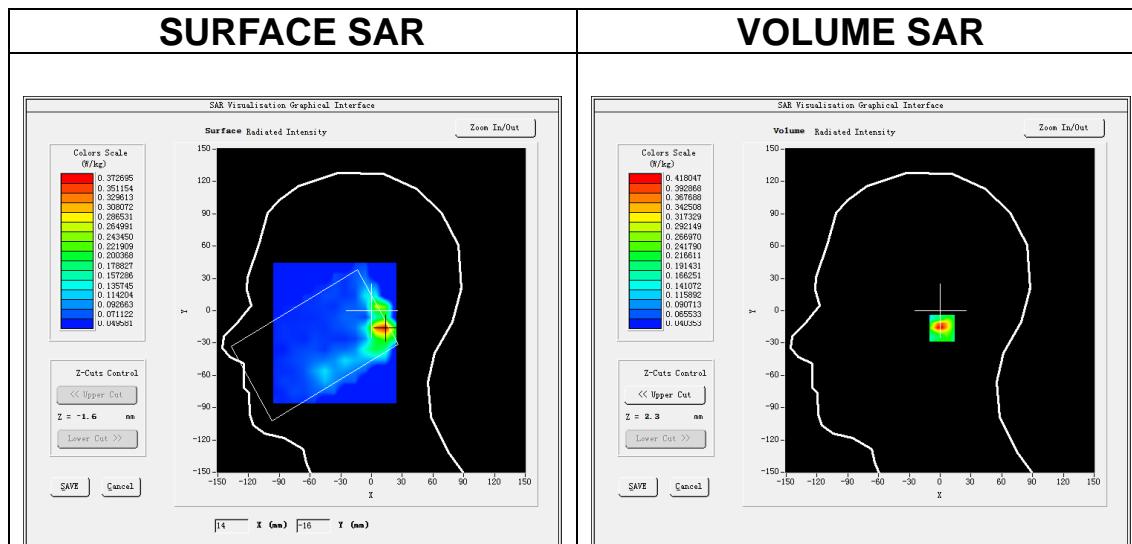
Date of measurement: 6/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

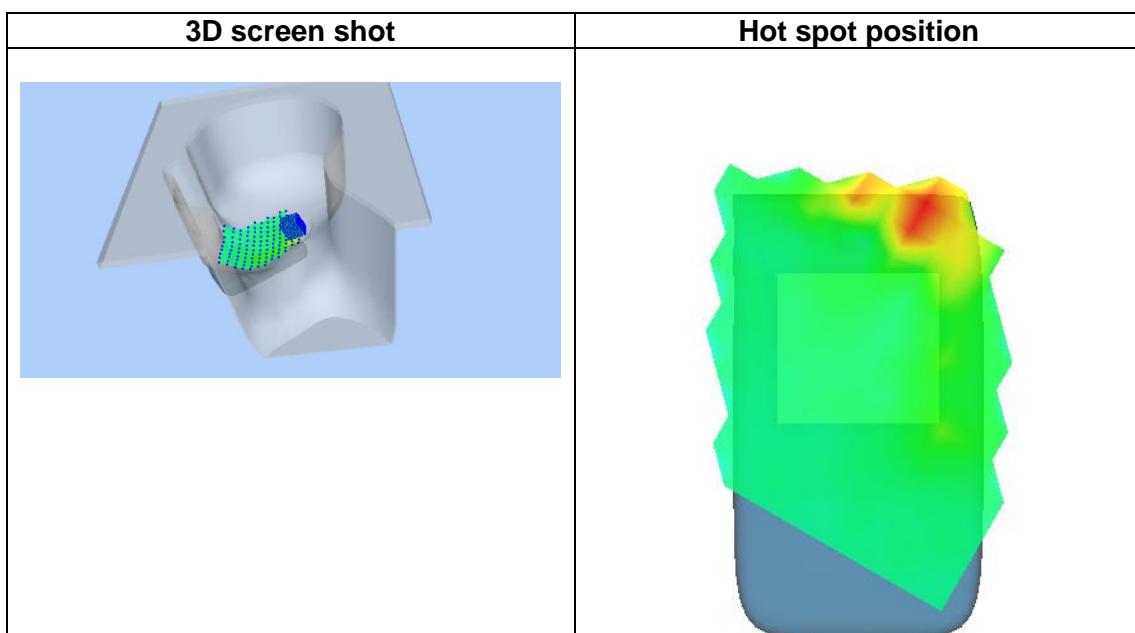
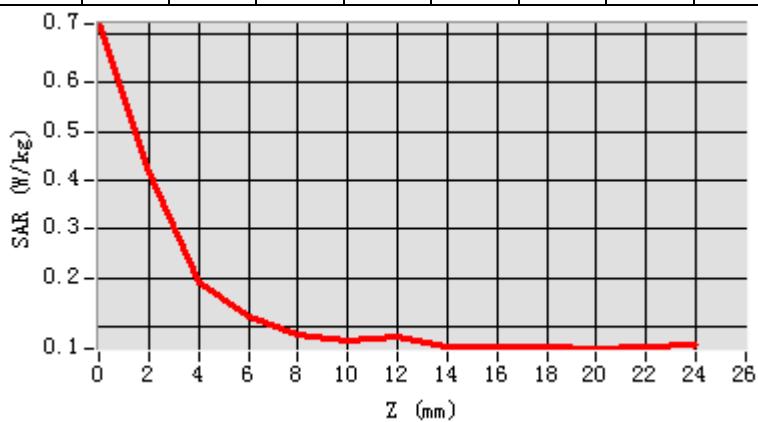
Frequency (MHz)	5190.000000
Relative permittivity (real part)	35.674279
Relative permittivity (imaginary part)	15.828042
Conductivity (S/m)	4.563752
Variation (%)	0.350000



Maximum location: X=12.00, Y=-16.00
SAR Peak: 1.17 W/kg

SAR 10g (W/Kg)	0.163876
SAR 1g (W/Kg)	0.405057

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SA R (W/ Kg)	0.71 99	0.41 80	0.19 32	0.12 21	0.08 34	0.07 07	0.08 15	0.05 99	0.05 87	0.05 82	0.05 61	0.05 91



MEASUREMENT 12

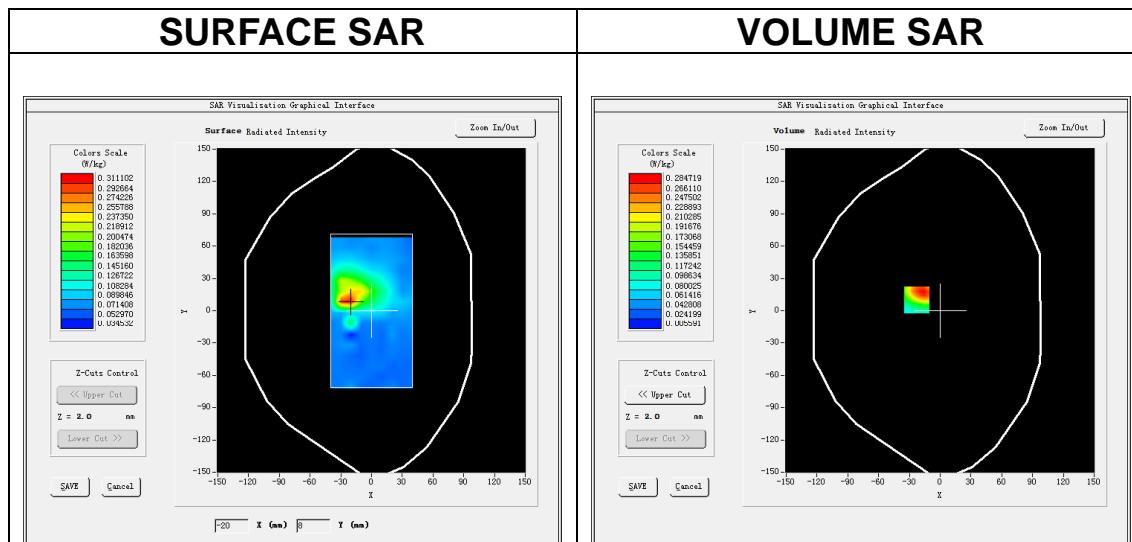
Date of measurement: 9/11/2020

A. Experimental conditions.

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

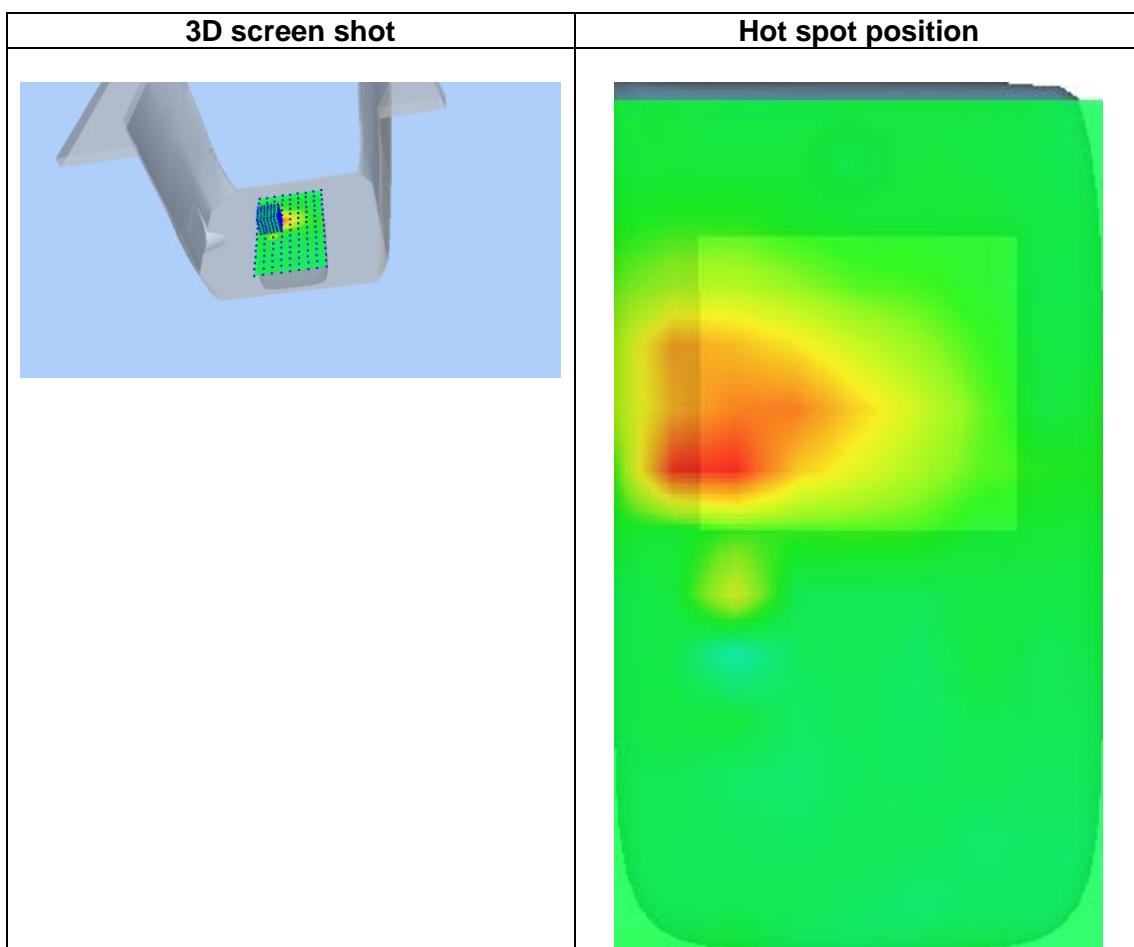
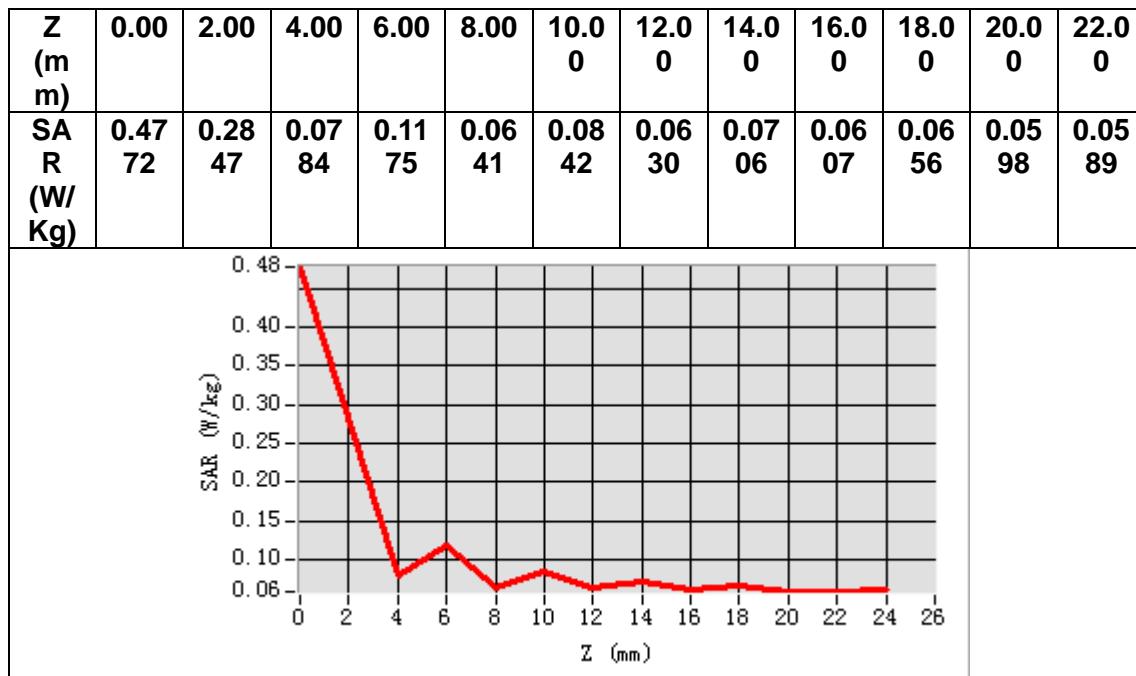
B. SAR Measurement Results

Frequency (MHz)	5190.000000
Relative permittivity (real part)	49.683835
Relative permittivity (imaginary part)	17.951932
Conductivity (S/m)	5.176140
Variation (%)	-1.850000



Maximum location: X=-23.00, Y=10.00
SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.103401
SAR 1g (W/Kg)	0.193392



MEASUREMENT 13

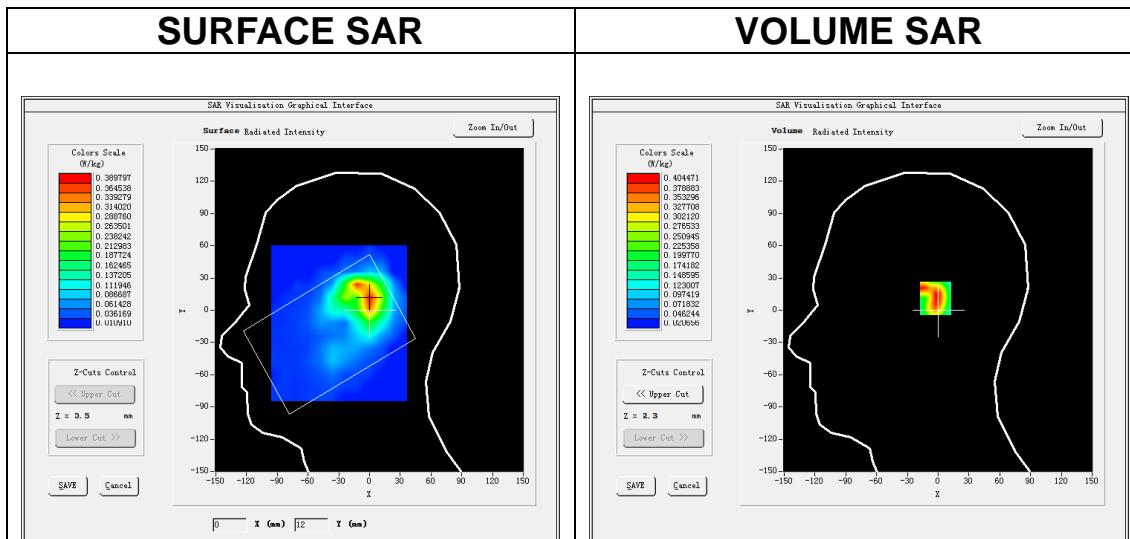
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

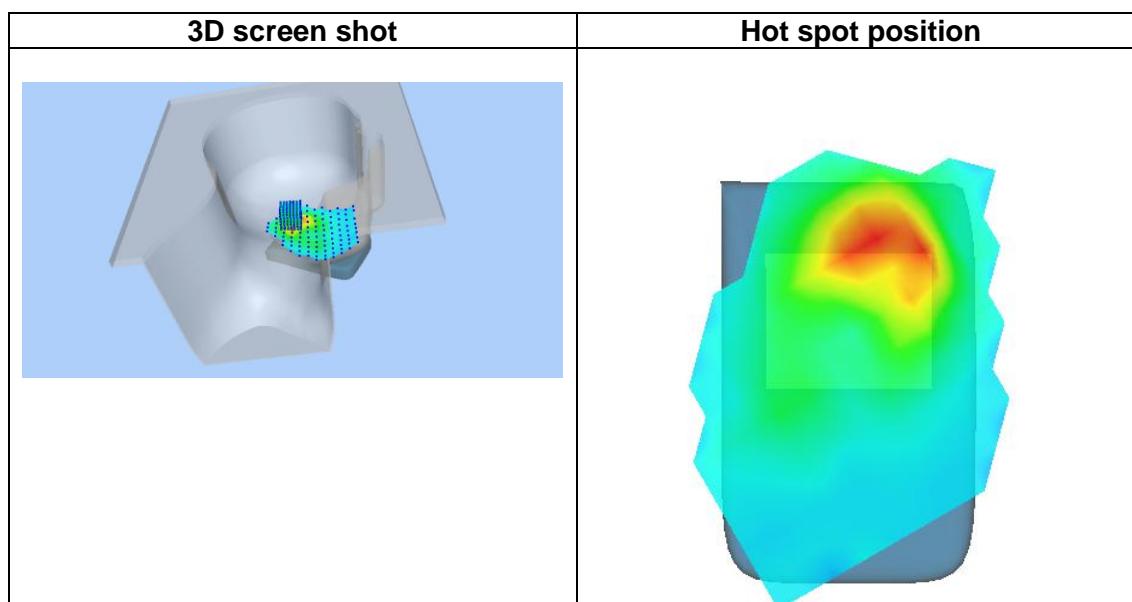
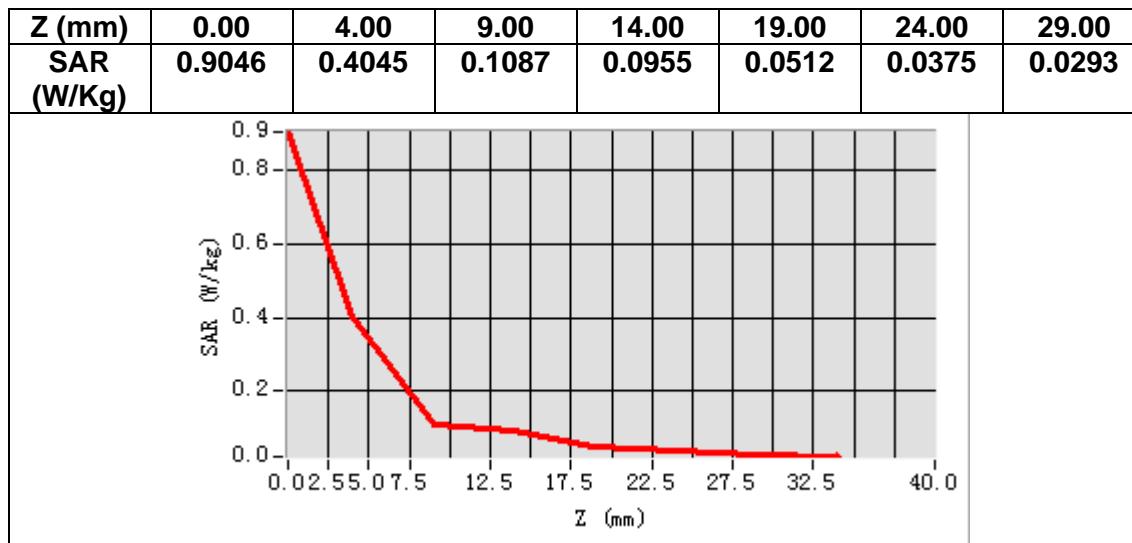
Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.758000
Relative permittivity (imaginary part)	13.390300
Conductivity (S/m)	1.812898
Variation (%)	-1.100000



Maximum location: X=1.00, Y=11.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.187764
SAR 1g (W/Kg)	0.378017



MEASUREMENT 14

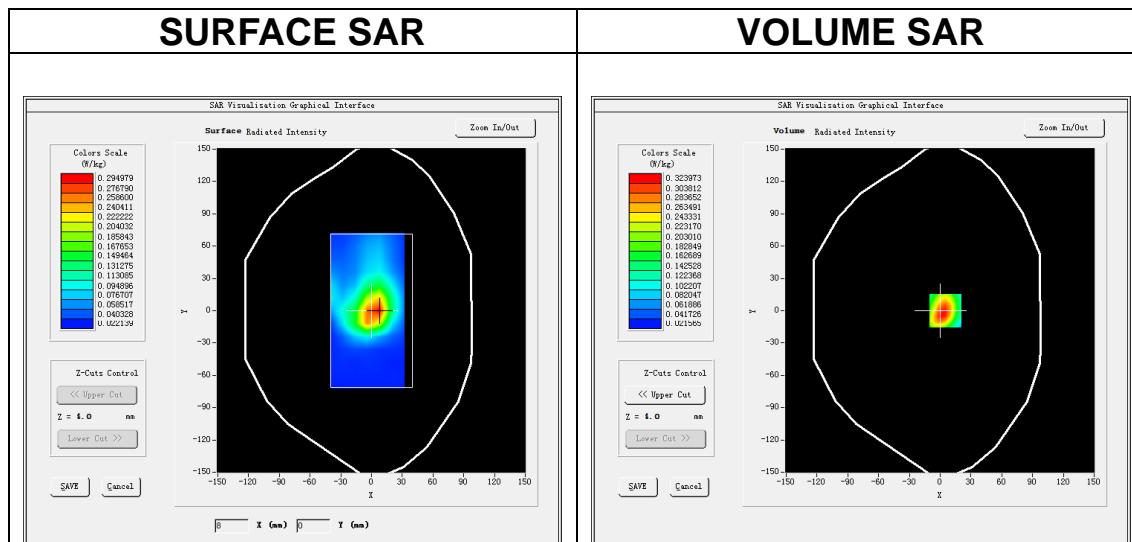
Date of measurement: 12/11/2020

A. Experimental conditions.

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

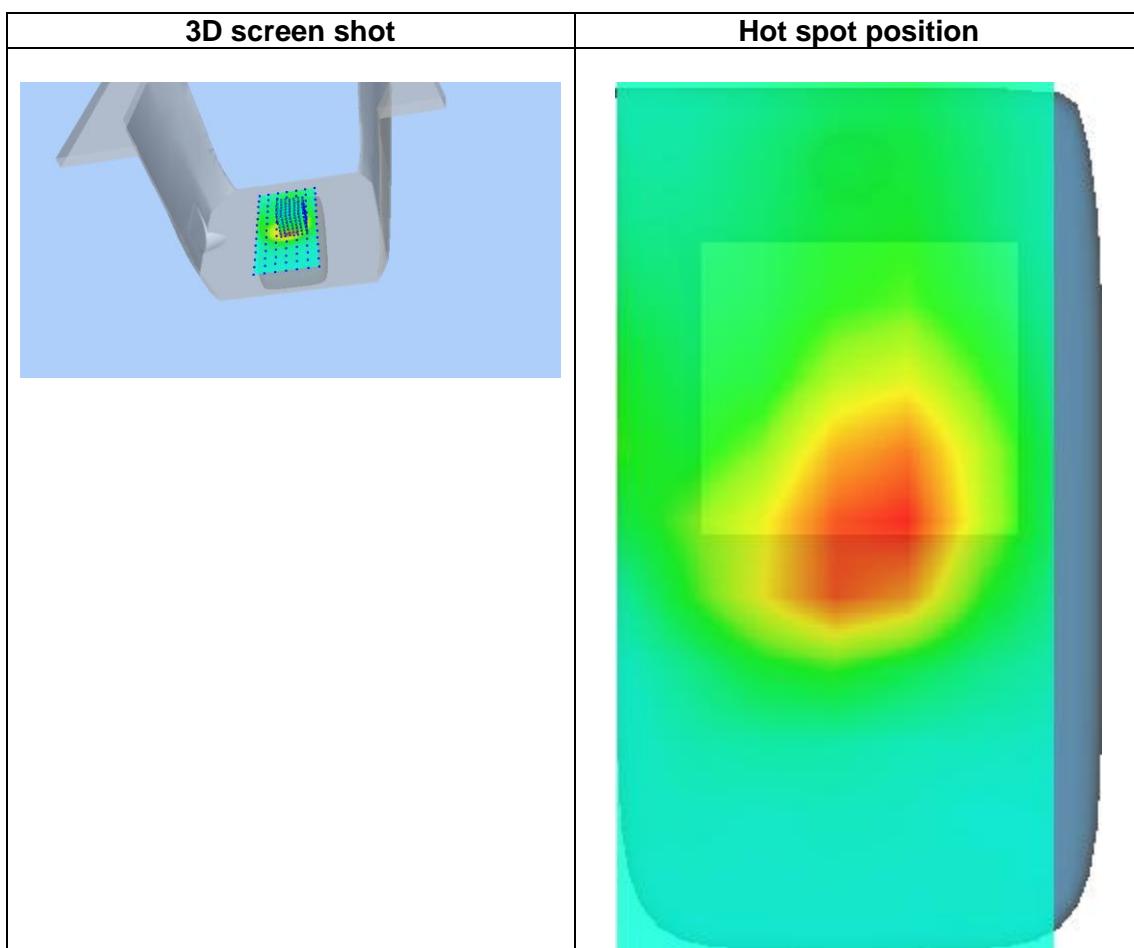
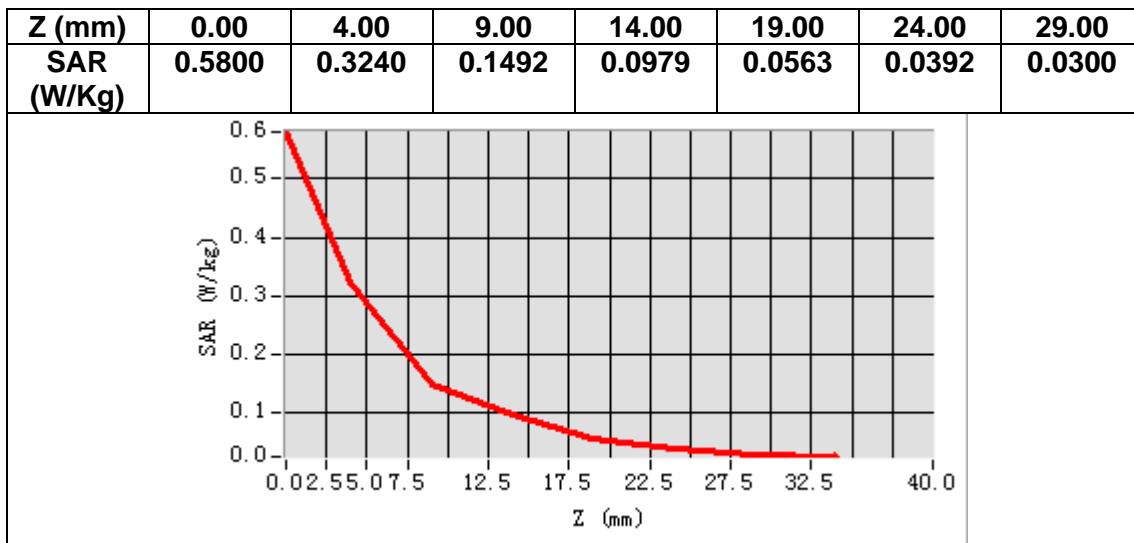
B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	51.803699
Relative permittivity (imaginary part)	13.864400
Conductivity (S/m)	1.877086
Variation (%)	1.060000



Maximum location: X=5.00, Y=0.00
SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.159684
SAR 1g (W/Kg)	0.307947



MEASUREMENT 15

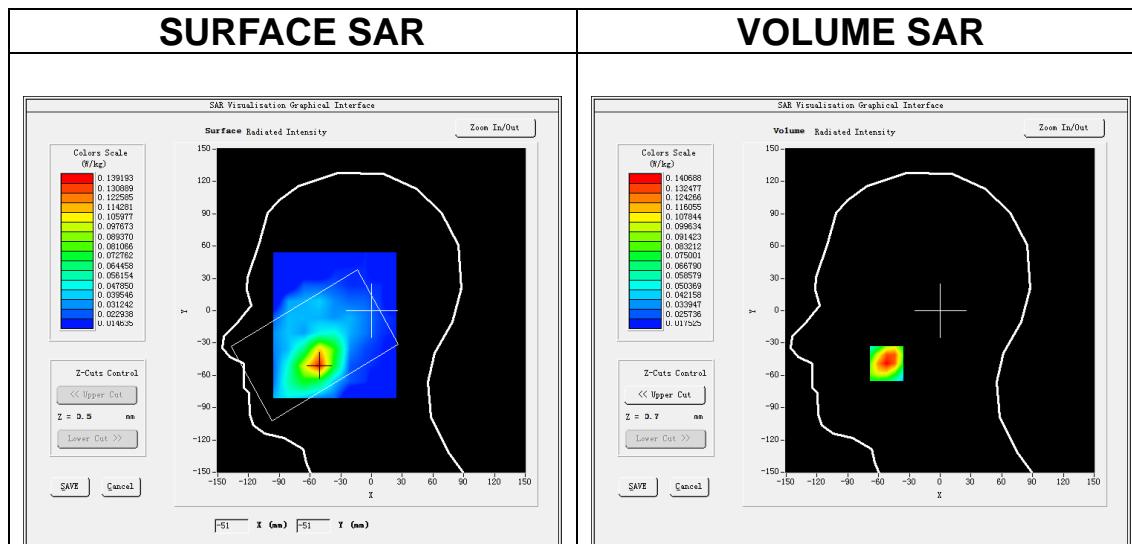
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

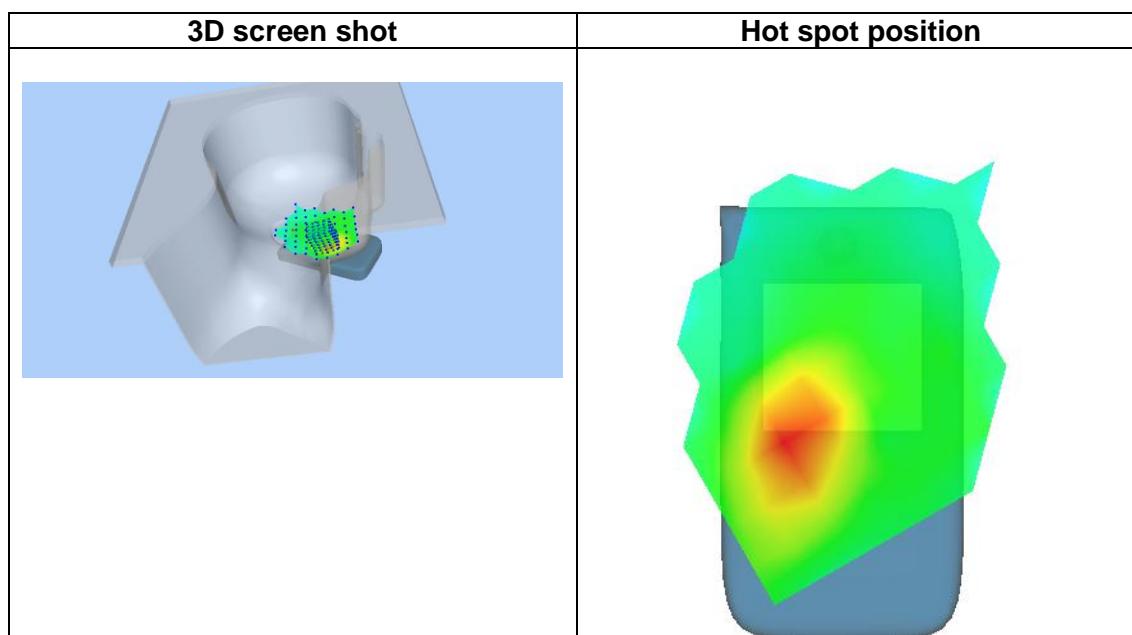
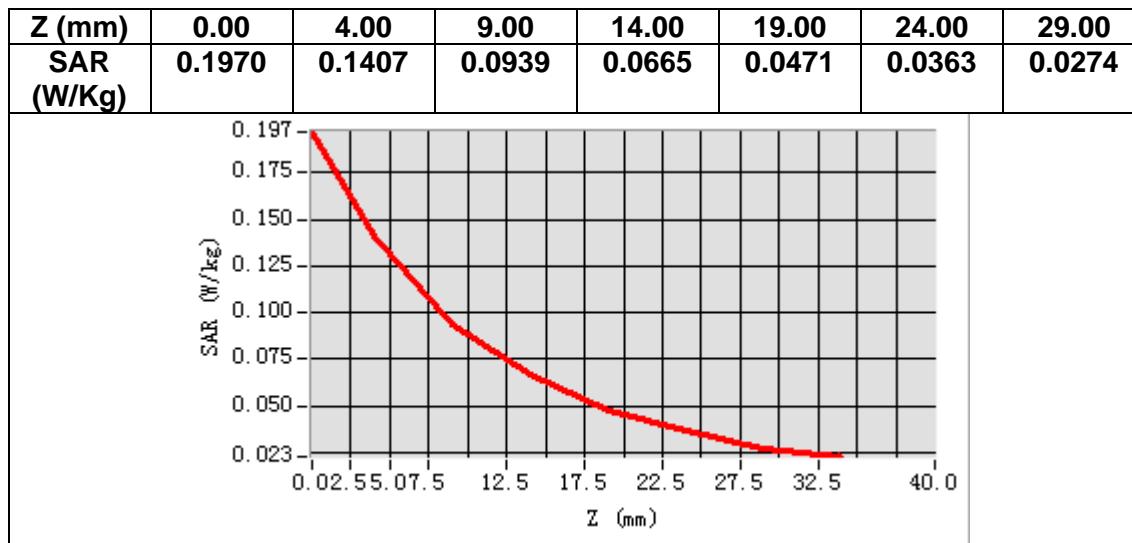
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-2.240000



Maximum location: X=-52.00, Y=-49.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.082655
SAR 1g (W/Kg)	0.135210



MEASUREMENT 16

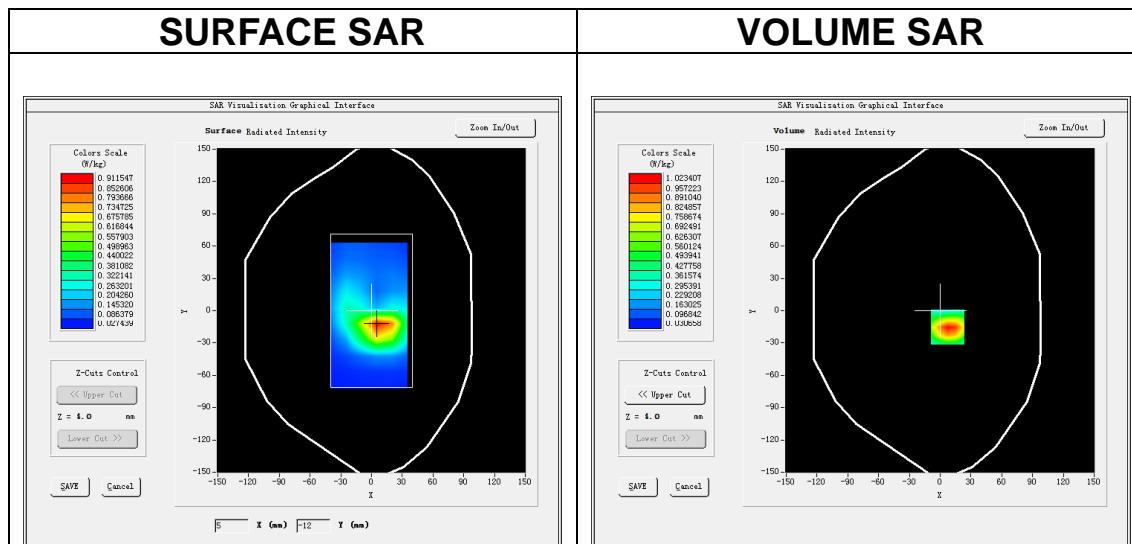
Date of measurement: 11/11/2020

A. Experimental conditions.

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

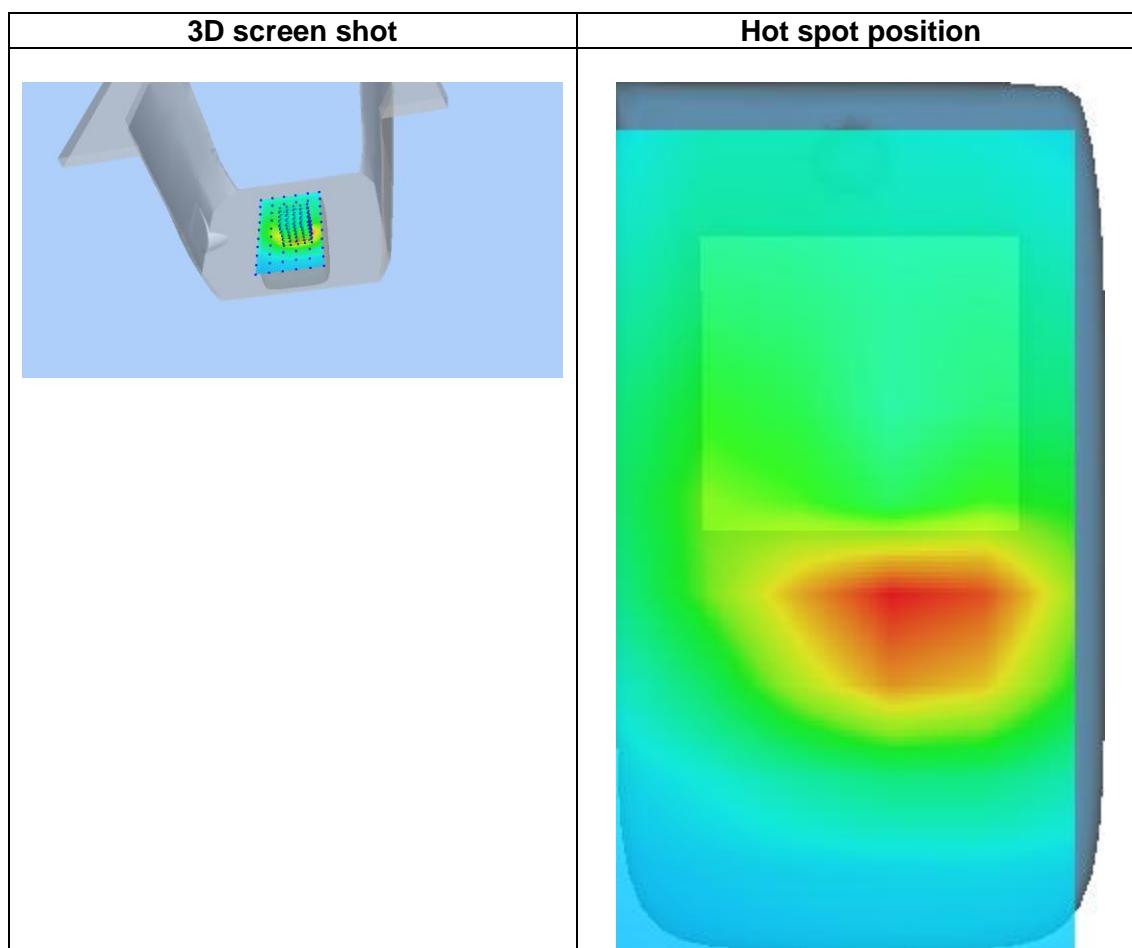
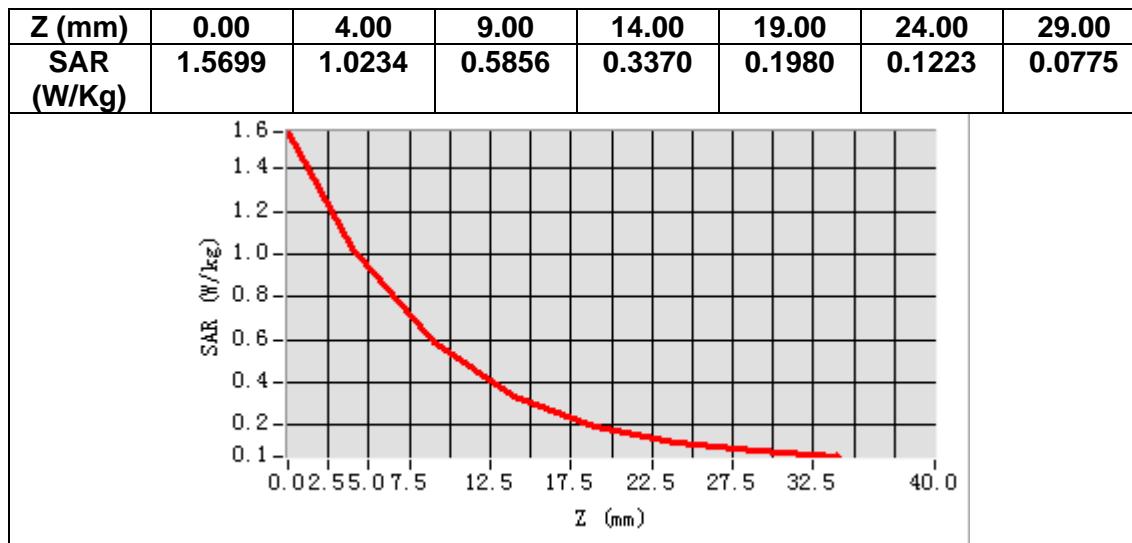
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	54.387800
Relative permittivity (imaginary part)	14.419500
Conductivity (S/m)	1.522058
Variation (%)	-1.320000



Maximum location: X=7.00, Y=-15.00
SAR Peak: 1.58 W/kg

SAR 10g (W/Kg)	0.510697
SAR 1g (W/Kg)	0.964721



MEASUREMENT 17

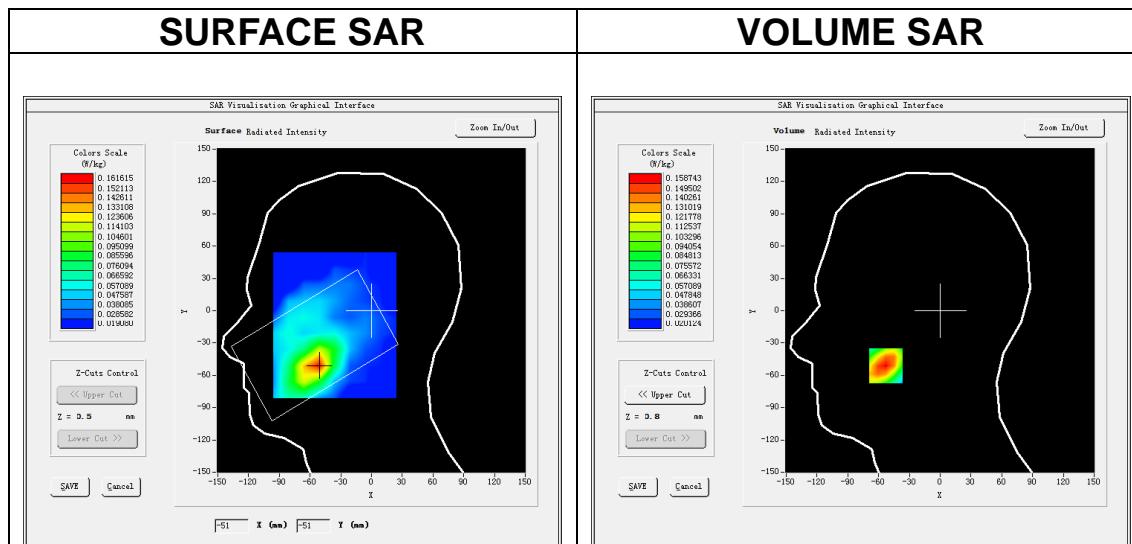
Date of measurement: 15/11/2020

A. Experimental conditions.

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

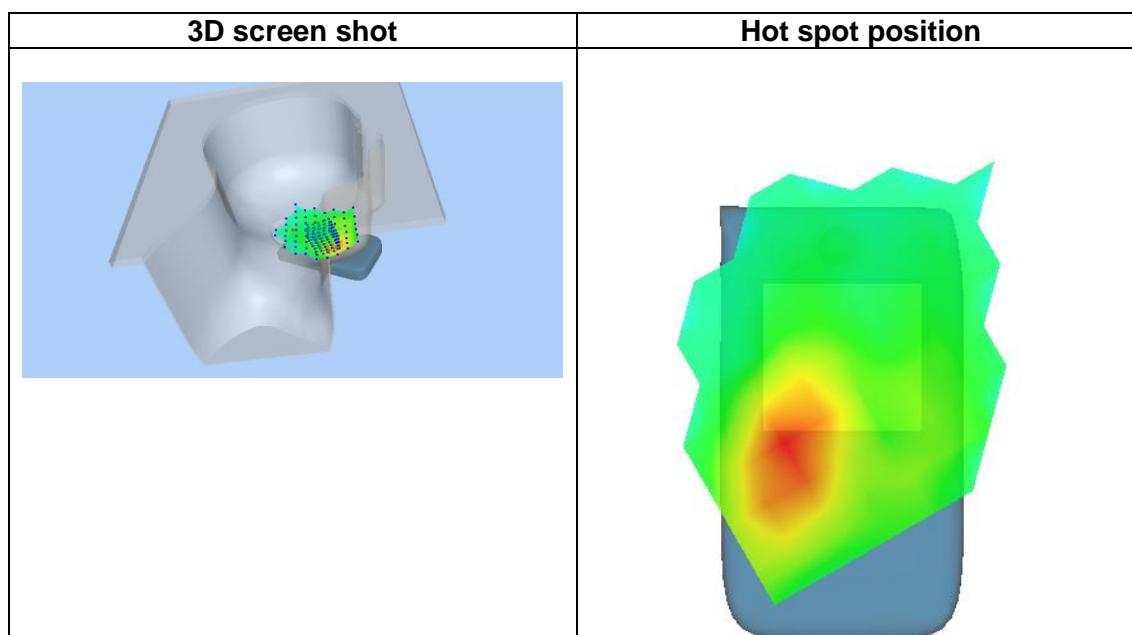
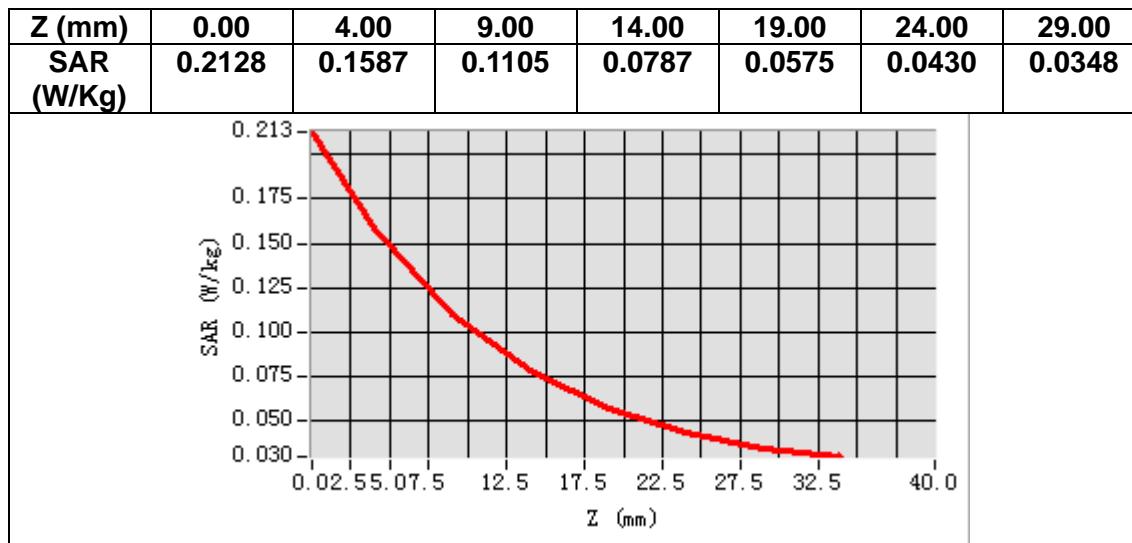
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.437523
Relative permittivity (imaginary part)	13.538328
Conductivity (S/m)	1.303064
Variation (%)	-3.250000



Maximum location: X=-53.00, Y=-51.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.096574
SAR 1g (W/Kg)	0.150935



MEASUREMENT 18

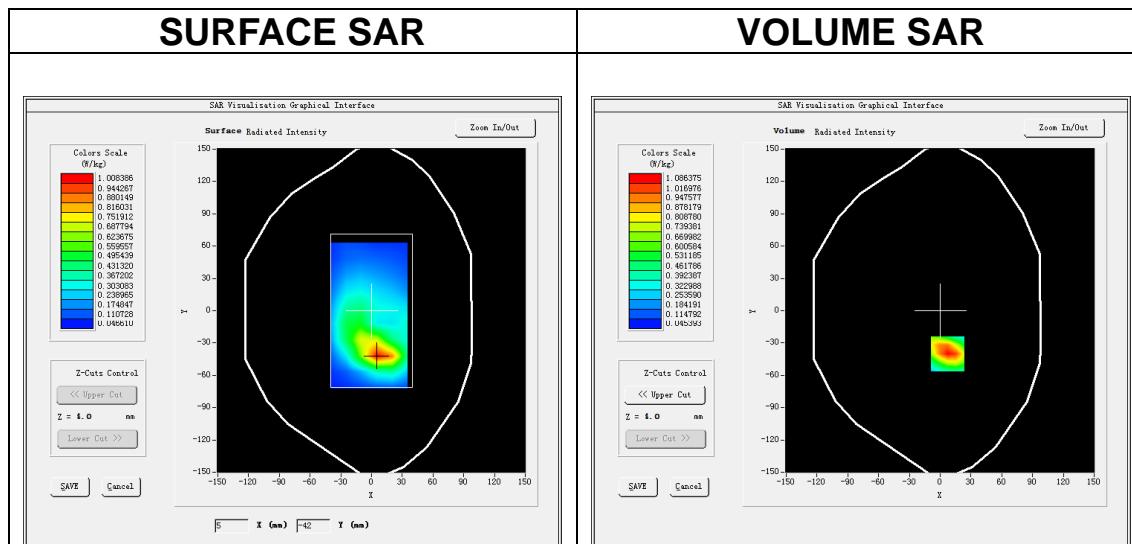
Date of measurement: 10/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	LTE band 4
<u>Channels</u>	Middle
<u>Signal</u>	LTE (Crest factor: 1.0)

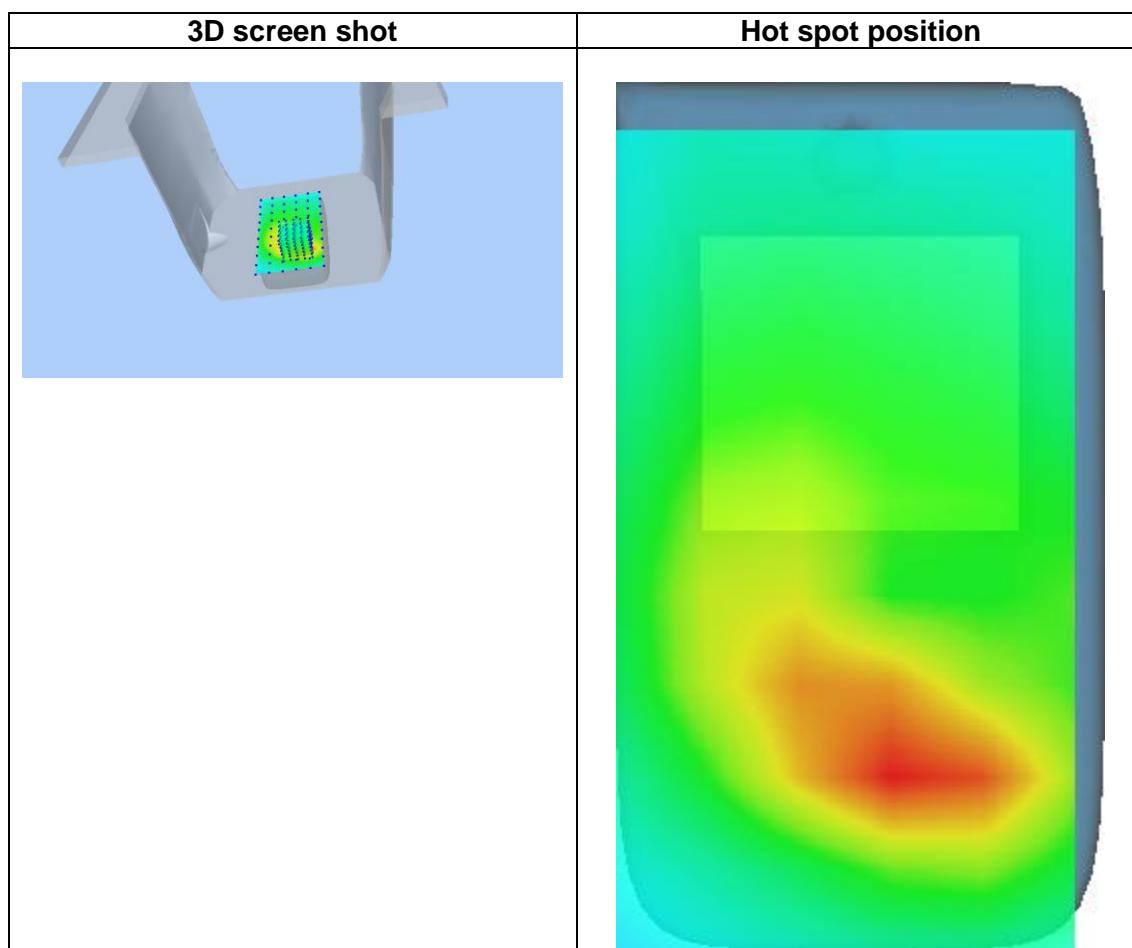
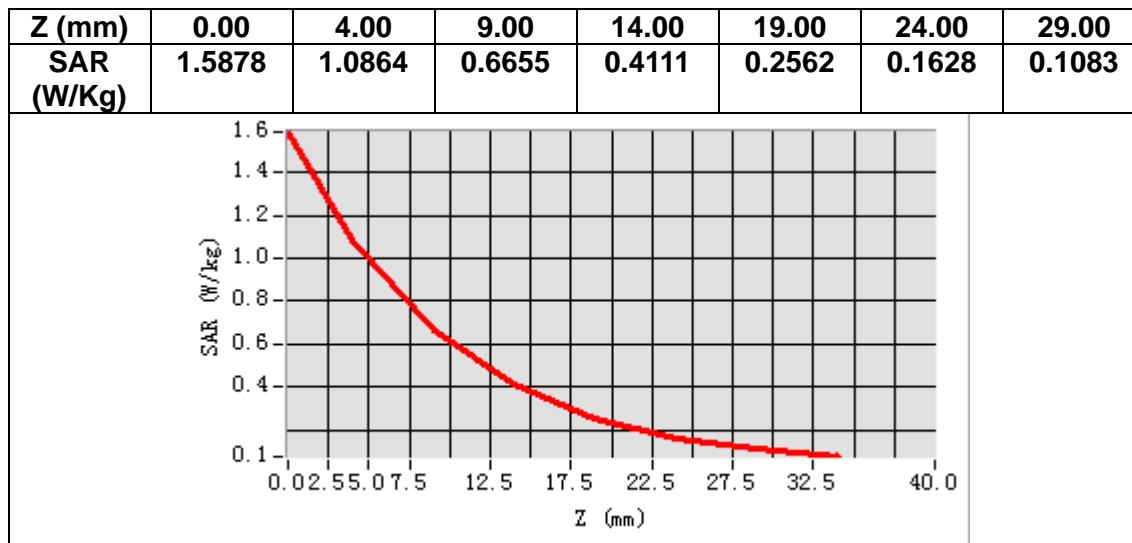
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	54.568367
Relative permittivity (imaginary part)	15.098220
Conductivity (S/m)	1.453204
Variation (%)	-1.080000



Maximum location: X=7.00, Y=-40.00
SAR Peak: 1.63 W/kg

SAR 10g (W/Kg)	0.573474
SAR 1g (W/Kg)	1.028526



MEASUREMENT 19

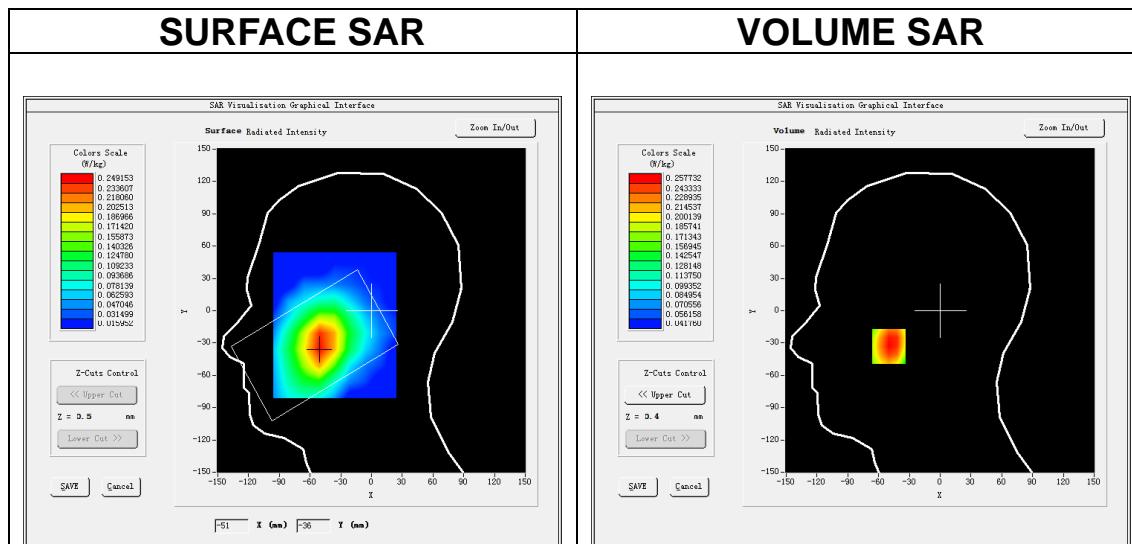
Date of measurement: 15/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

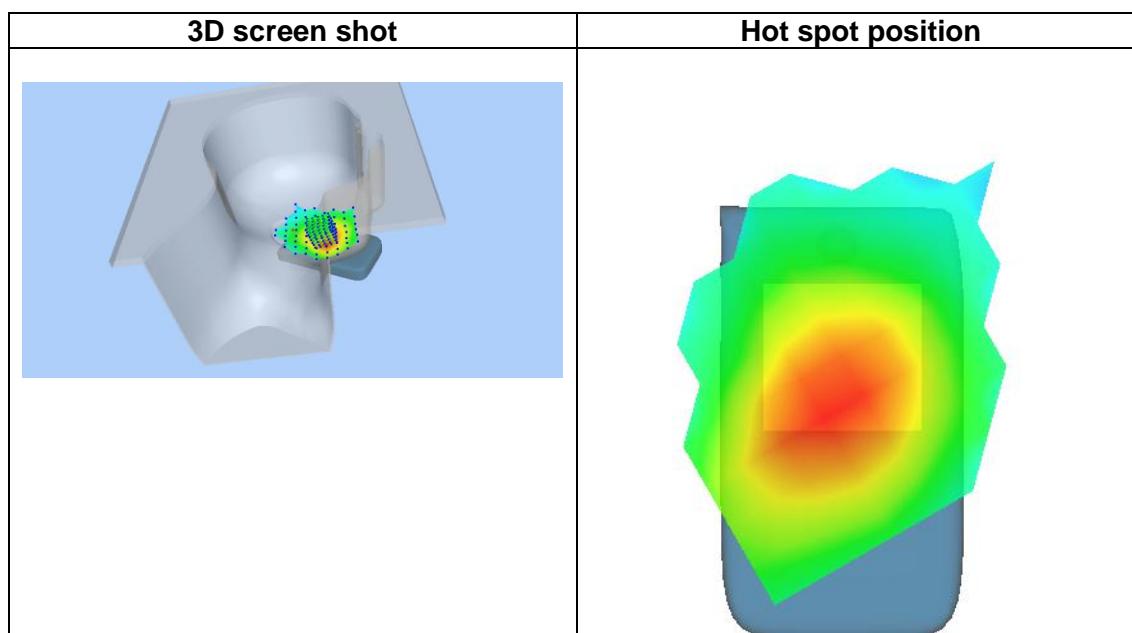
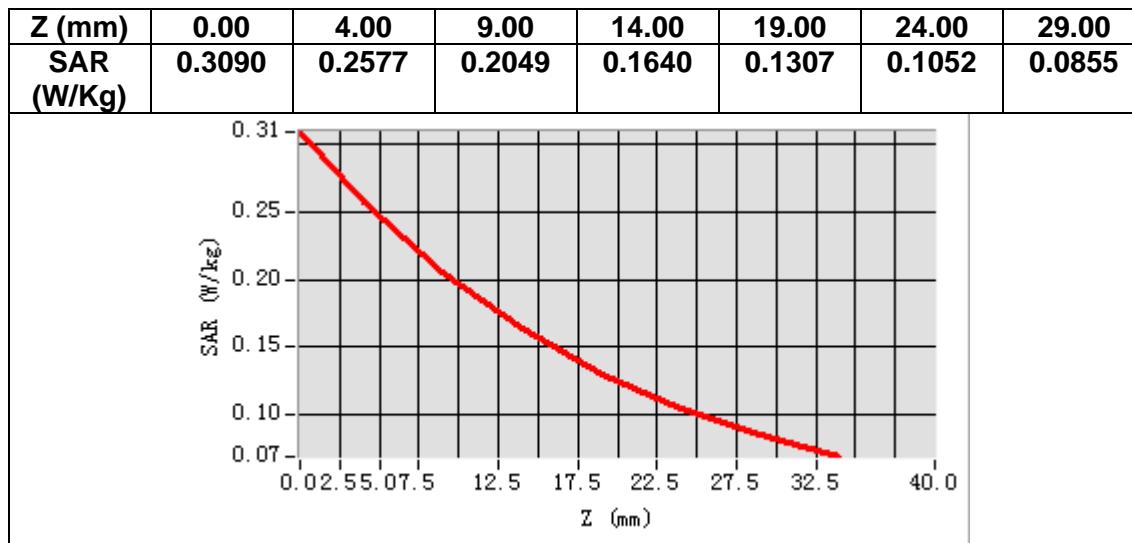
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.025780
Relative permittivity (imaginary part)	19.767937
Conductivity (S/m)	0.918660
Variation (%)	1.200000



Maximum location: X=-50.00, Y=-33.00
SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.188385
SAR 1g (W/Kg)	0.254499



MEASUREMENT 20

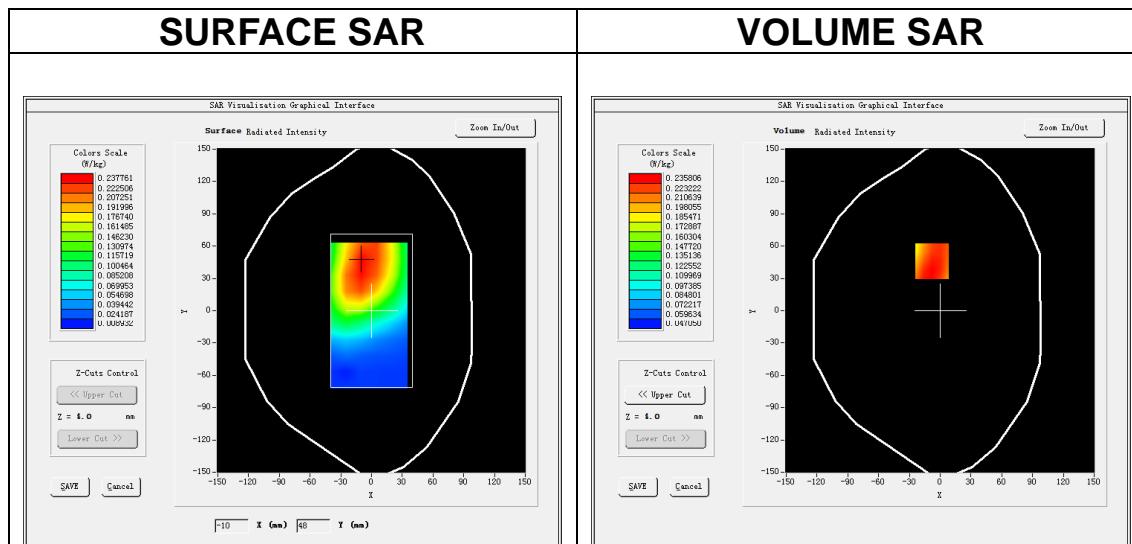
Date of measurement: 14/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	LTE band 5
<u>Channels</u>	Middle
<u>Signal</u>	LTE (Crest factor: 1.0)

B. SAR Measurement Results

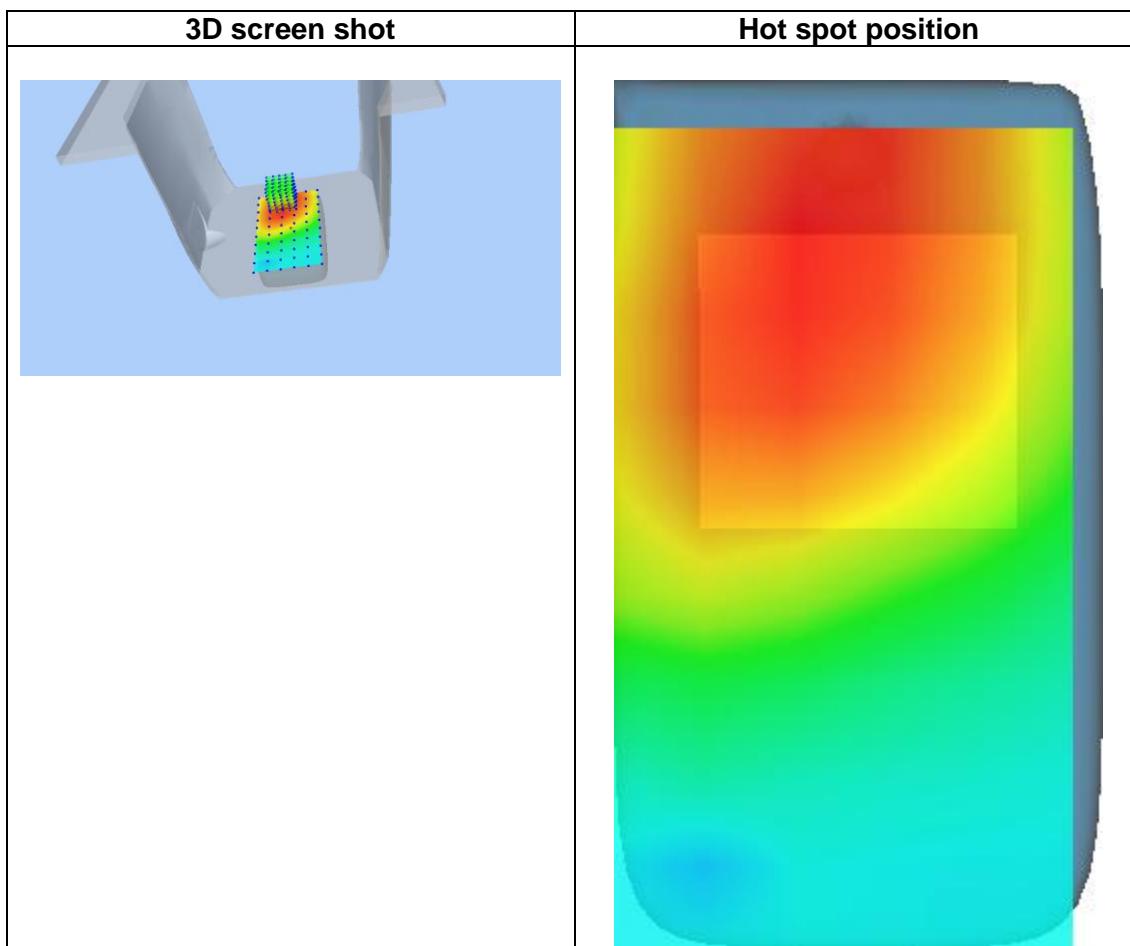
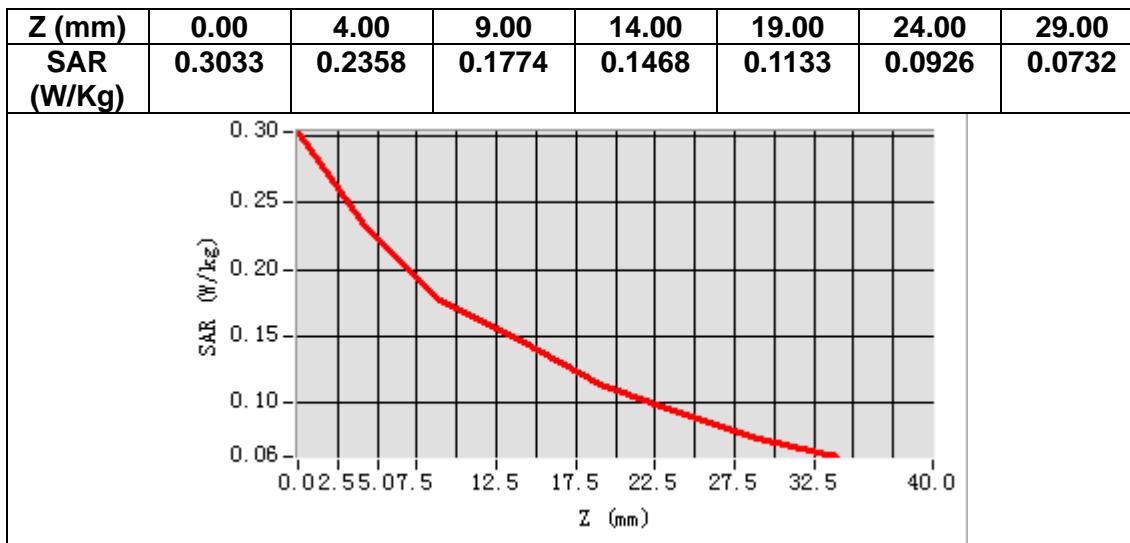
Frequency (MHz)	836.500000
Relative permittivity (real part)	54.855732
Relative permittivity (imaginary part)	20.964737
Conductivity (S/m)	0.974278
Variation (%)	0.870000



Maximum location: X=-8.00, Y=46.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.174330
SAR 1g (W/Kg)	0.229754



MEASUREMENT 21

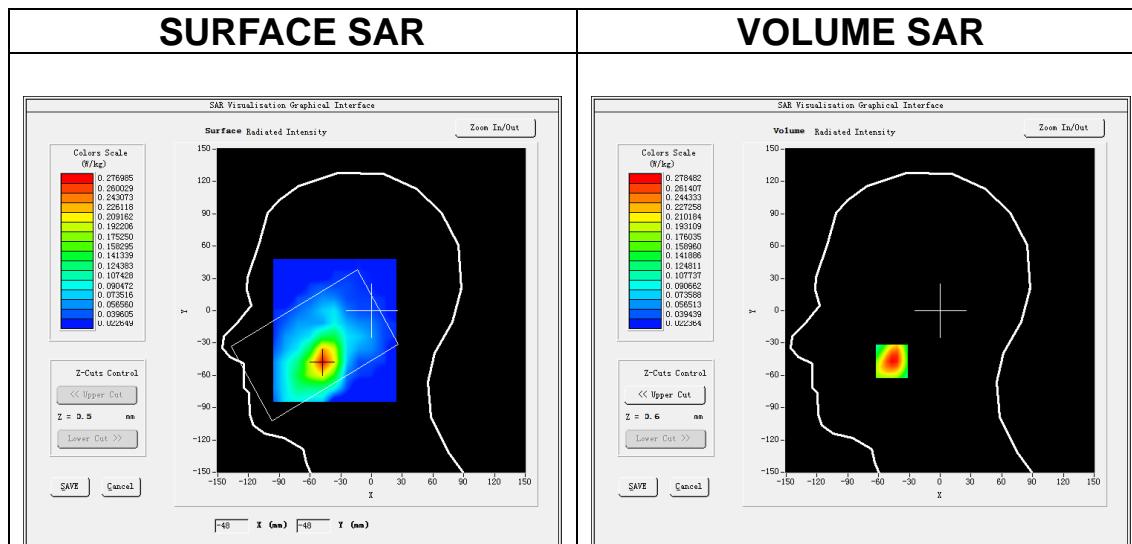
Date of measurement: 16/11/2020

A. Experimental conditions.

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

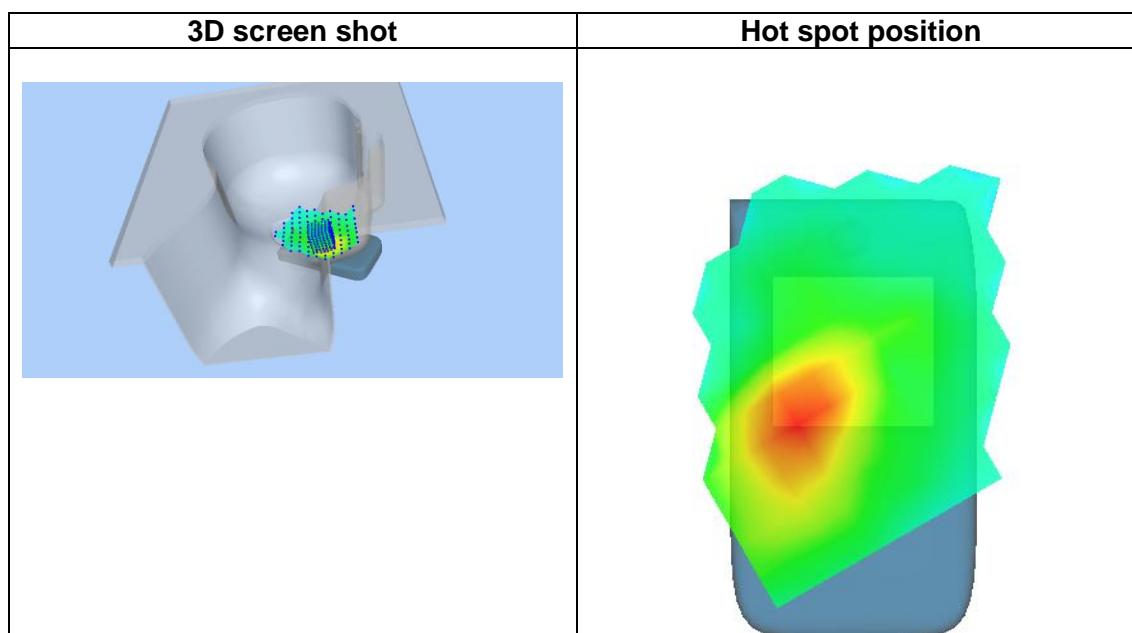
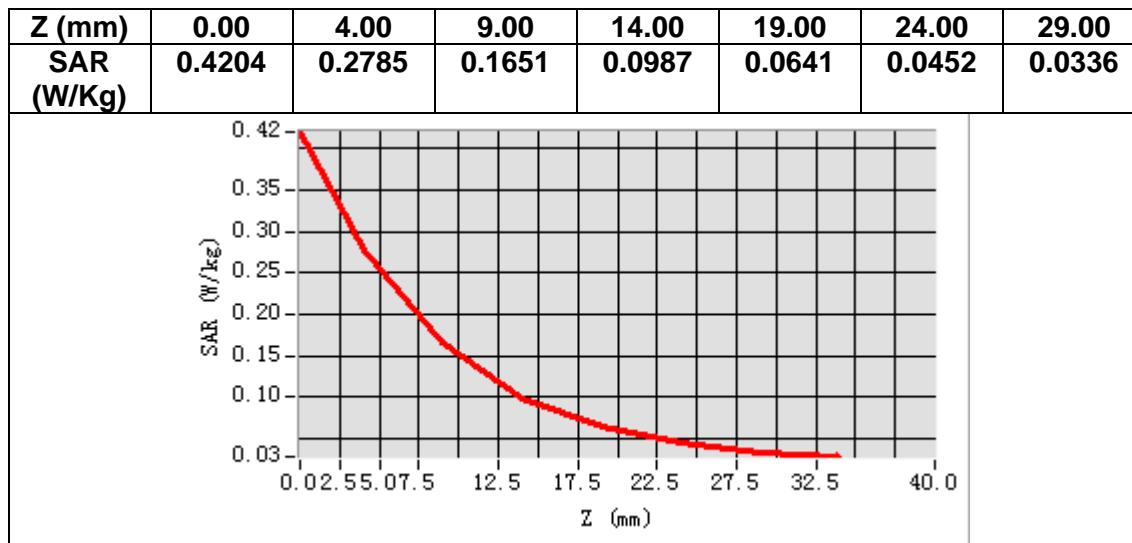
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.774715
Relative permittivity (imaginary part)	13.668896
Conductivity (S/m)	1.925036
Variation (%)	-1.480000



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

SAR 10g (W/Kg)	0.150164
SAR 1g (W/Kg)	0.265312



MEASUREMENT 22

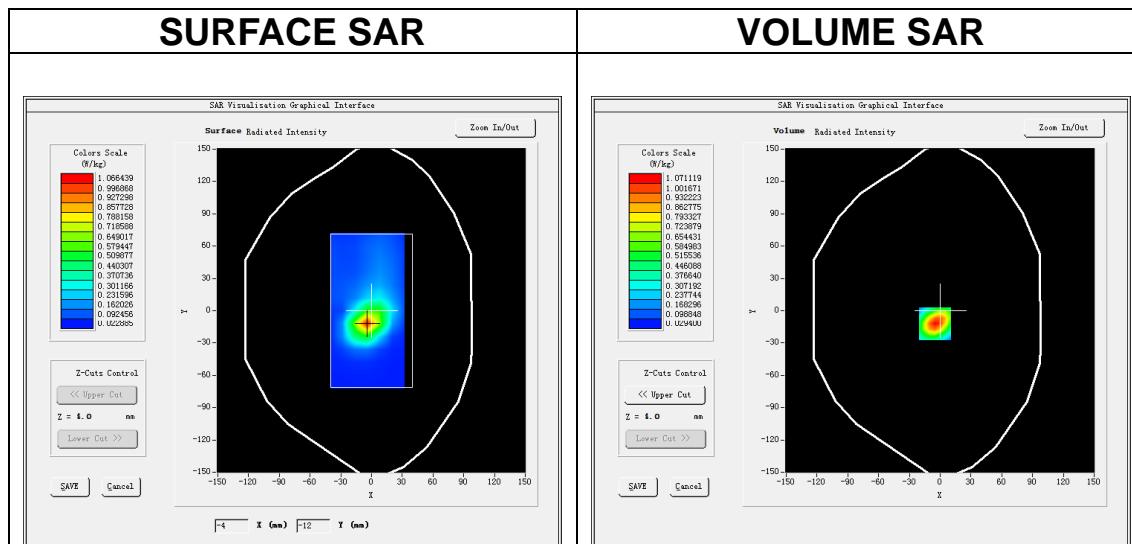
Date of measurement: 7/11/2020

A. Experimental conditions.

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

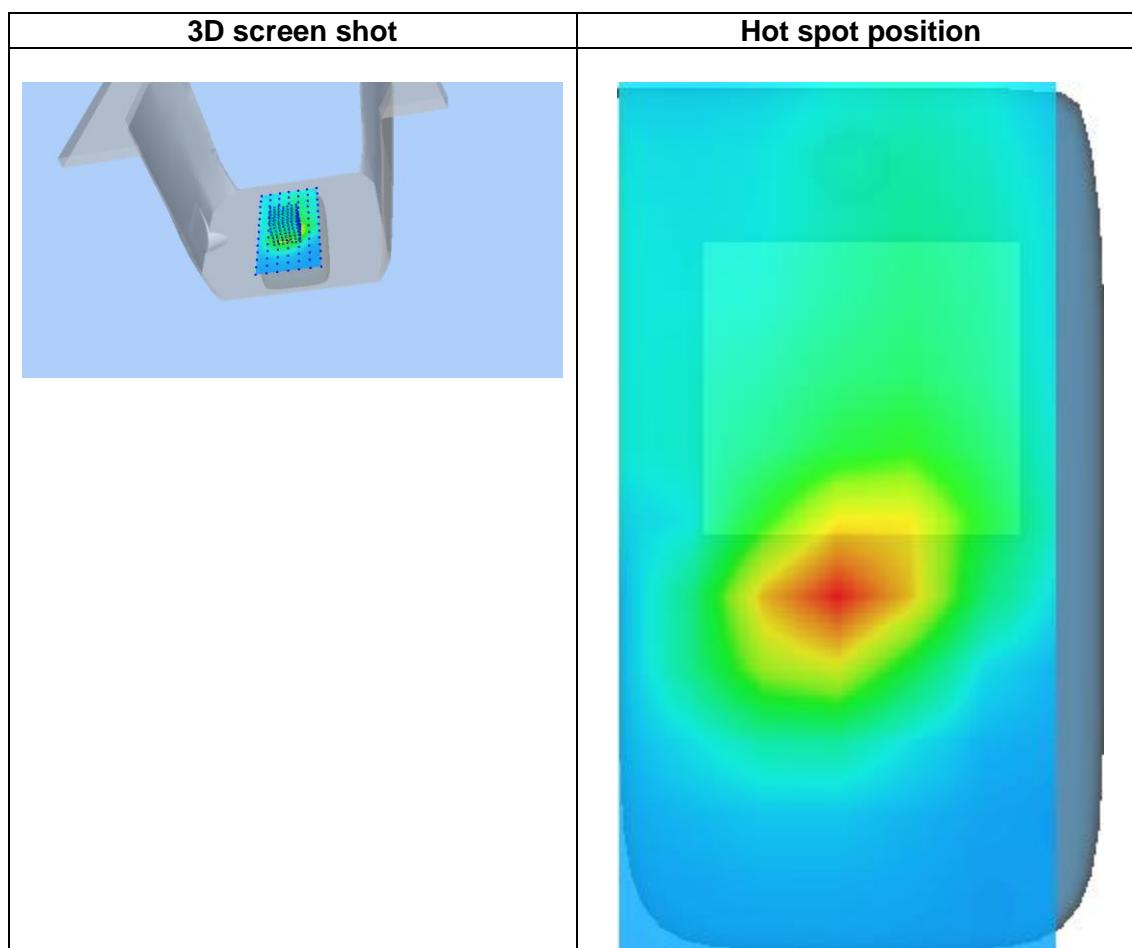
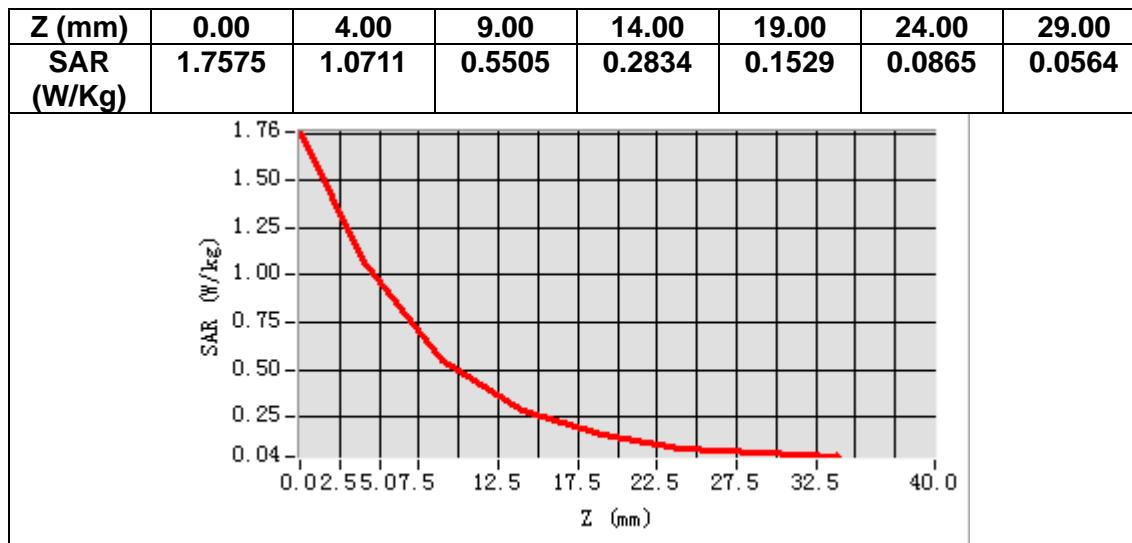
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	53.246944
Relative permittivity (imaginary part)	15.177840
Conductivity (S/m)	2.137546
Variation (%)	-0.030000



Maximum location: X=-5.00, Y=-12.00
SAR Peak: 1.75 W/kg

SAR 10g (W/Kg)	0.474857
SAR 1g (W/Kg)	0.993793



MEASUREMENT 23

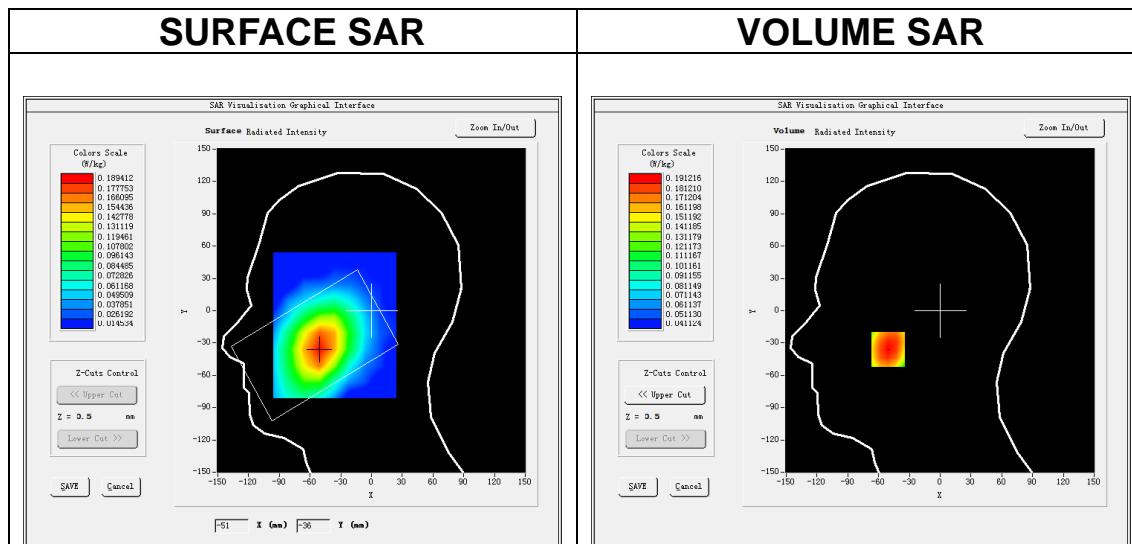
Date of measurement: 13/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

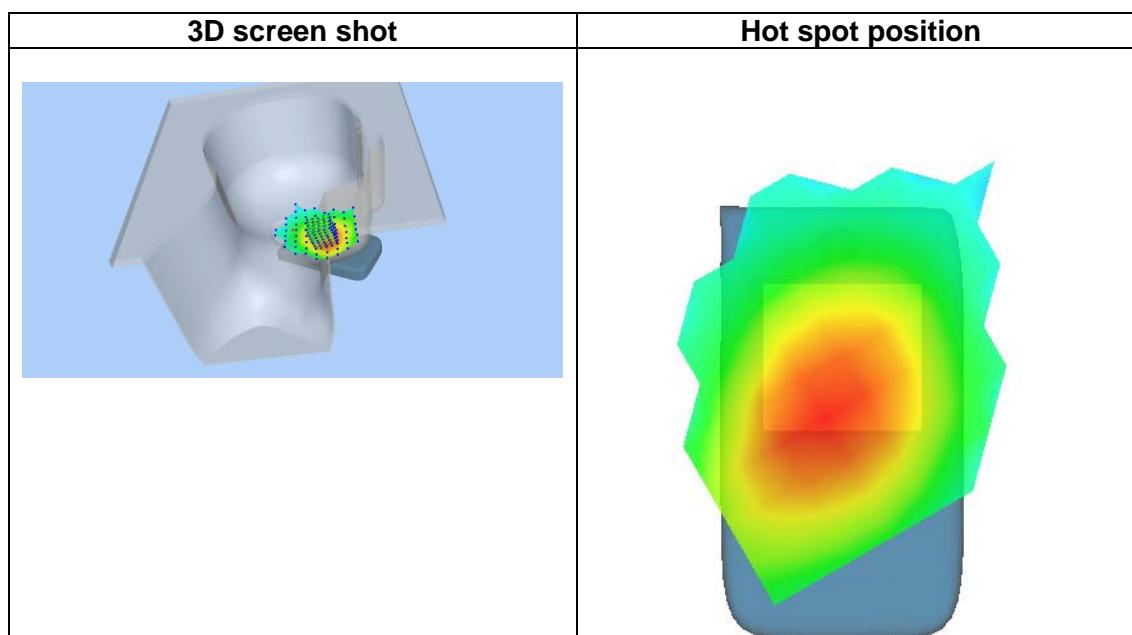
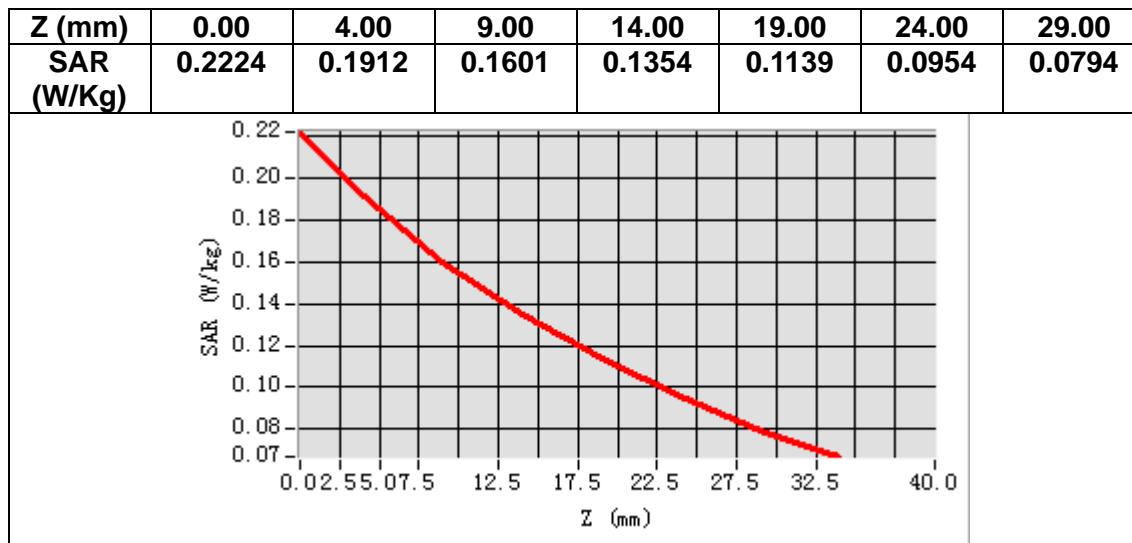
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	42.562424
Relative permittivity (imaginary part)	21.440987
Conductivity (S/m)	0.842750
Variation (%)	1.290000



Maximum location: X=-51.00, Y=-36.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.148602
SAR 1g (W/Kg)	0.186617



MEASUREMENT 24

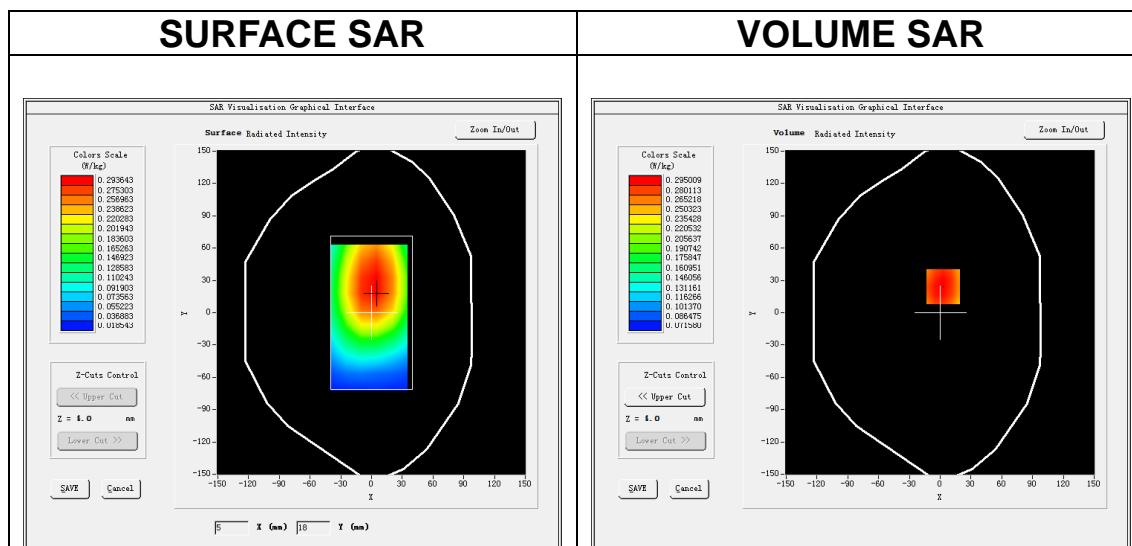
Date of measurement: 13/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

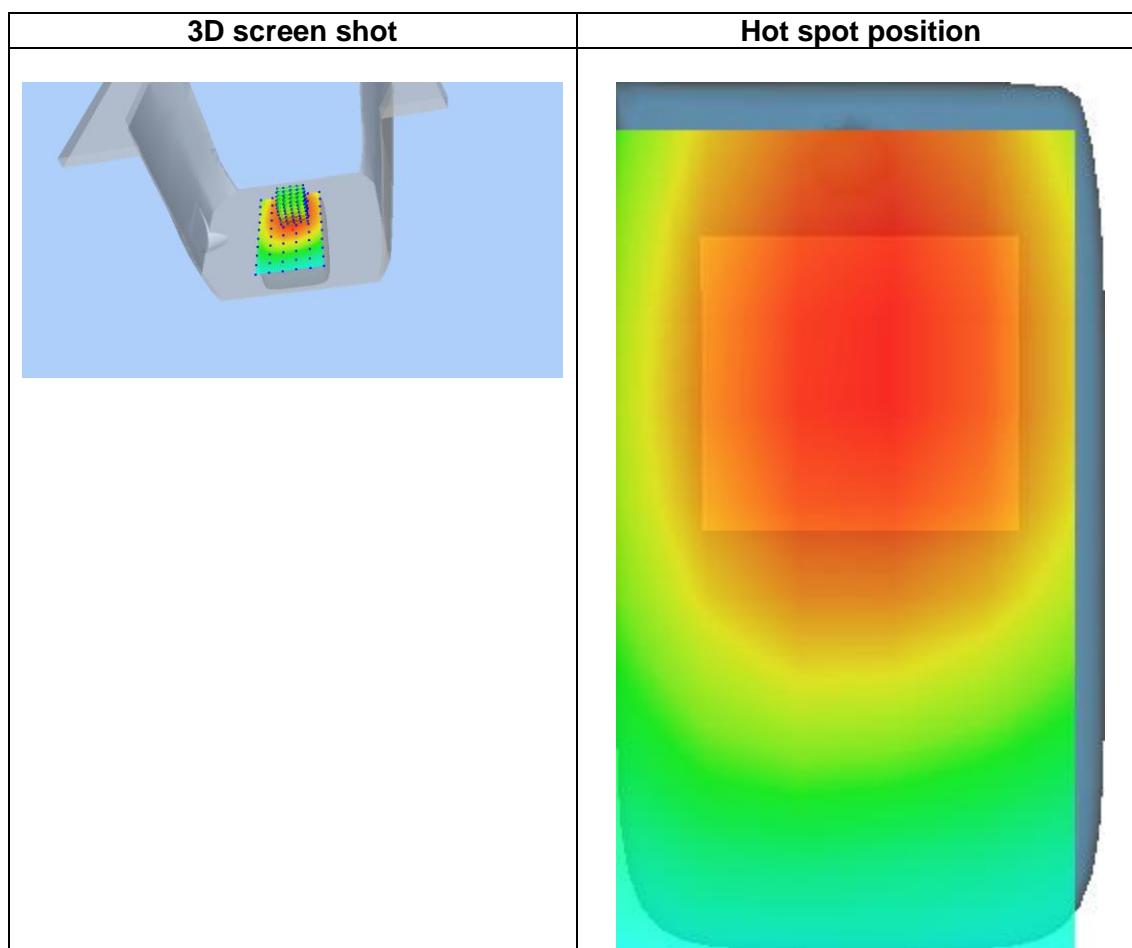
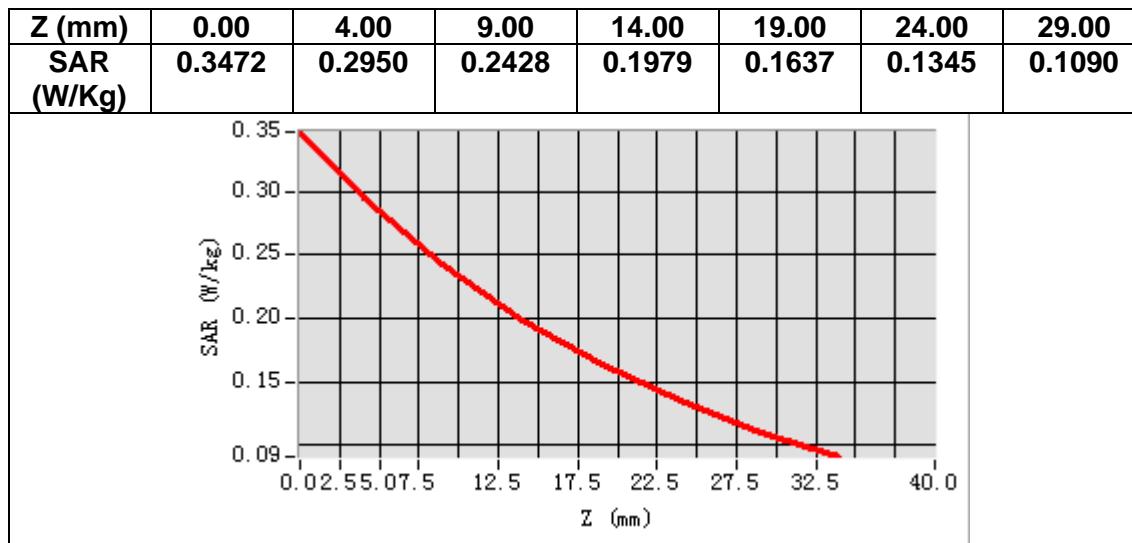
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	55.933891
Relative permittivity (imaginary part)	23.348585
Conductivity (S/m)	0.917729
Variation (%)	-0.220000



Maximum location: X=3.00, Y=24.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.227990
SAR 1g (W/Kg)	0.288564



MEASUREMENT 25

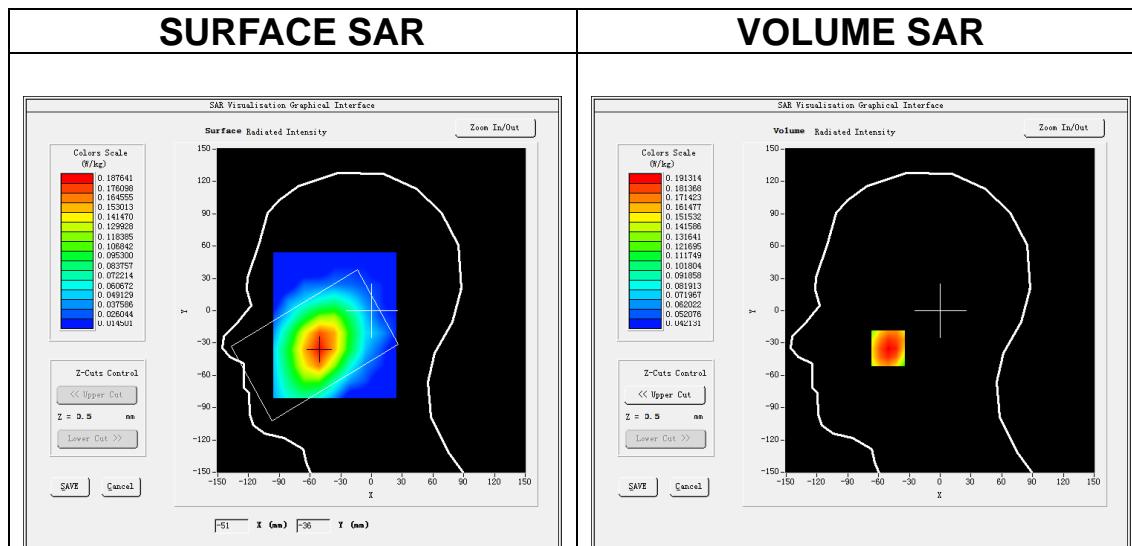
Date of measurement: 13/11/2020

A. Experimental conditions.

<u>Area Scan</u>	$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$
<u>ZoomScan</u>	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

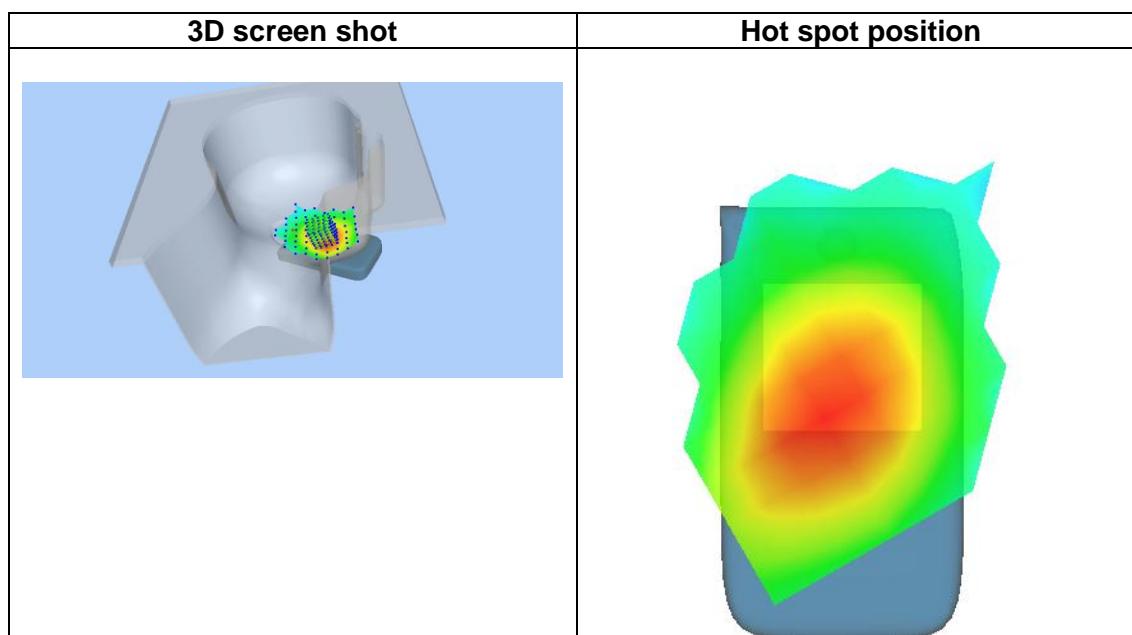
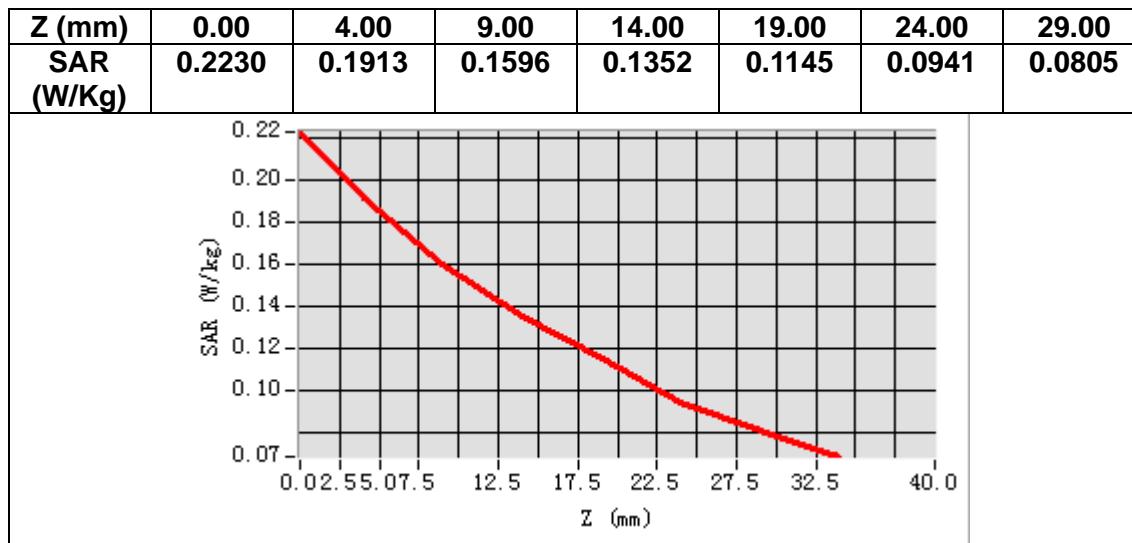
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	42.541172
Relative permittivity (imaginary part)	21.469387
Conductivity (S/m)	0.846848
Variation (%)	1.380000



Maximum location: X=-51.00, Y=-35.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.147884
SAR 1g (W/Kg)	0.187823



MEASUREMENT 26

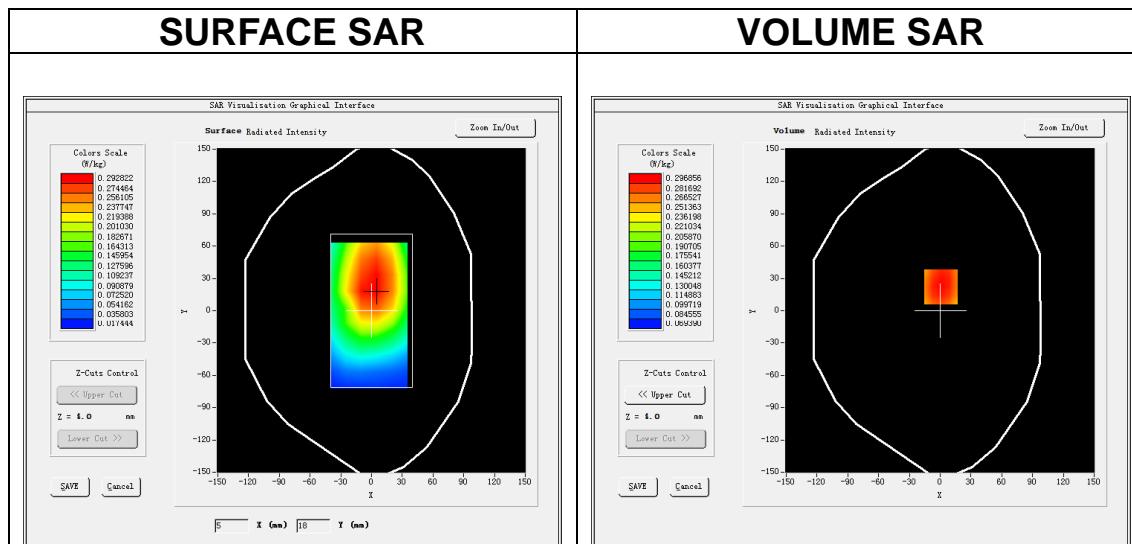
Date of measurement: 13/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	55.955990
Relative permittivity (imaginary part)	23.277237
Conductivity (S/m)	0.918158
Variation (%)	-0.310000



Maximum location: X=1.00, Y=22.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.228483
SAR 1g (W/Kg)	0.289707

