

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 : BV6300Pro

Family Model : N/A

Report No. : STR201102001009E

FCC ID : 2APMJBV6300PRO

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name.....: Smart Phone
Trademark.....: Blackview
Model Name.....: BV6300Pro
Family Model.....: N/A
FCC 47 CFR Part 2(2.1093)

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

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

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Date of Test

Date (s) of performance of tests.....: Nov. 02, 2020 ~ Nov. 12, 2020
Date of Issue.....: Nov. 23, 2020
Test Result.....: Pass

Prepared By (Test Engineer) : Cheng Jiawen (Cheng Jiawen)

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※ ※ Revision History ※ ※

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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 BV6300Pro are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.447	0.533	0.561	N/A
1-g Body-Worn (Separation distance of 10mm)		1.197	0.129	0.324	N/A
1-g Hotspot (Separation distance of 10mm)		1.197	0.129	0.324	N/A
Max Simultaneous Tx	Head	1.008	0.980	1.008	0.657
	Body-Worn	1.521	1.326	1.521	1.302
	Hotspot	1.521	1.326	1.521	1.302

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	BV6300Pro		
Family Model	N/A		
FCC ID	2APMJBV6300PRO		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna	PIFA Antenna		
Battery Information	DC 3.85V, 4380mAh		
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), NFC(ASK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)

	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	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)

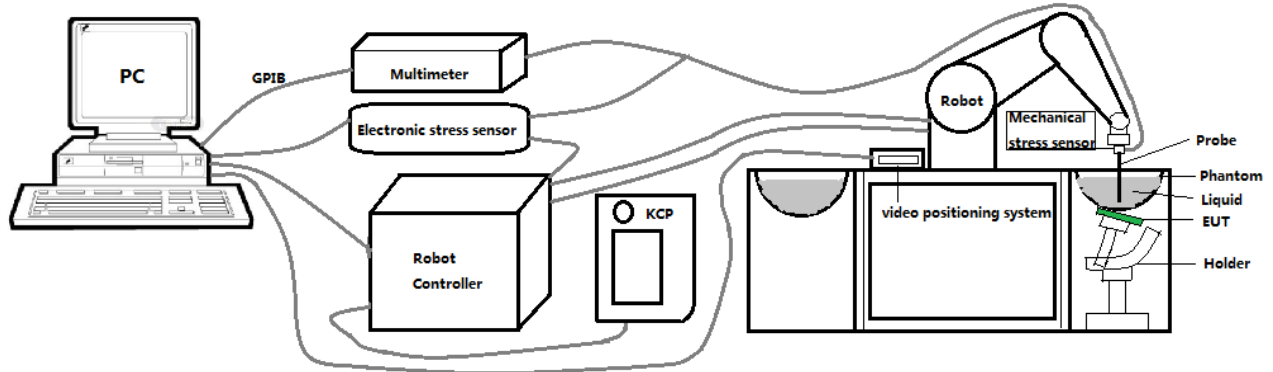
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225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

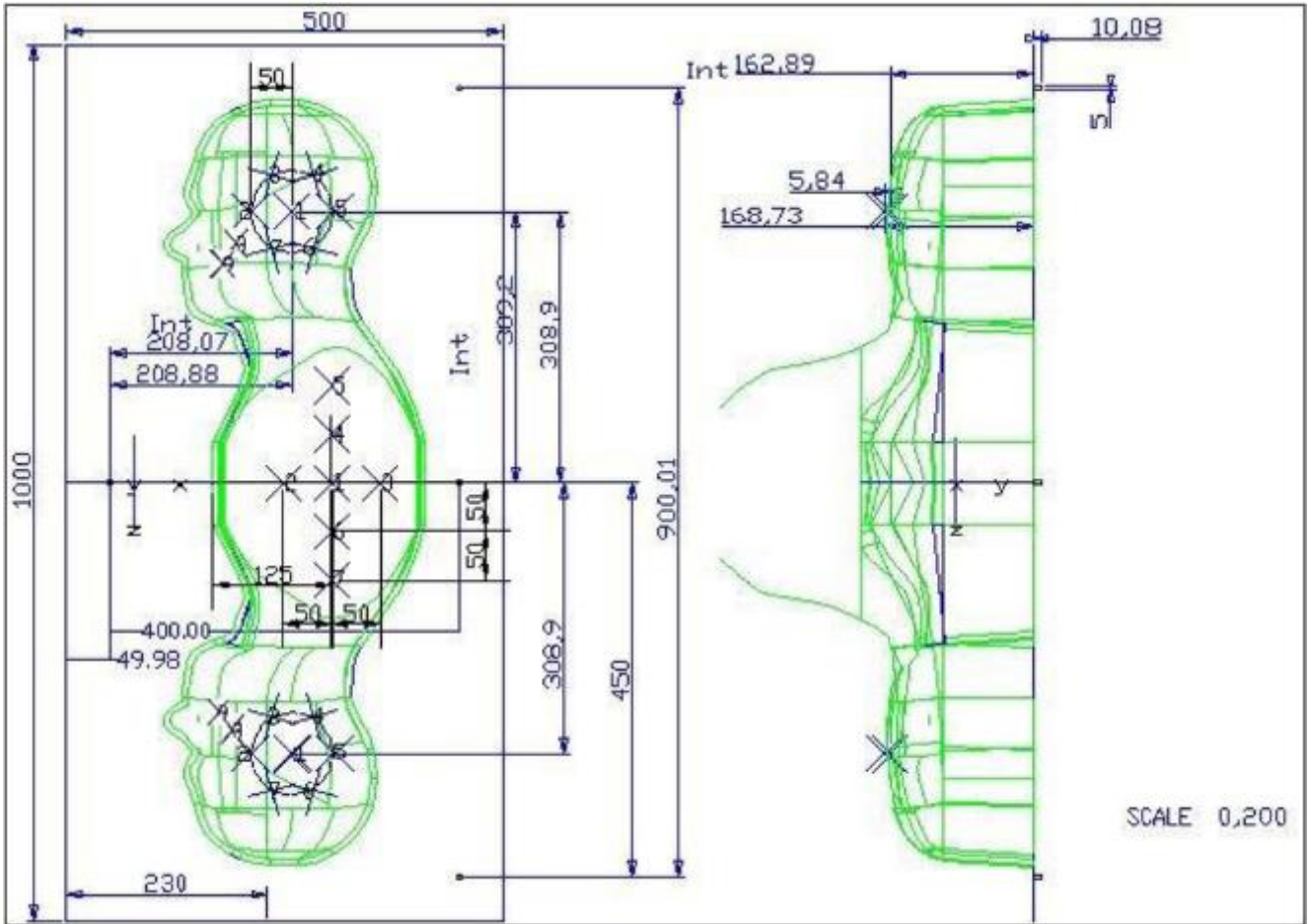
Photo of SAM phantom SN 16/15 SAM119



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

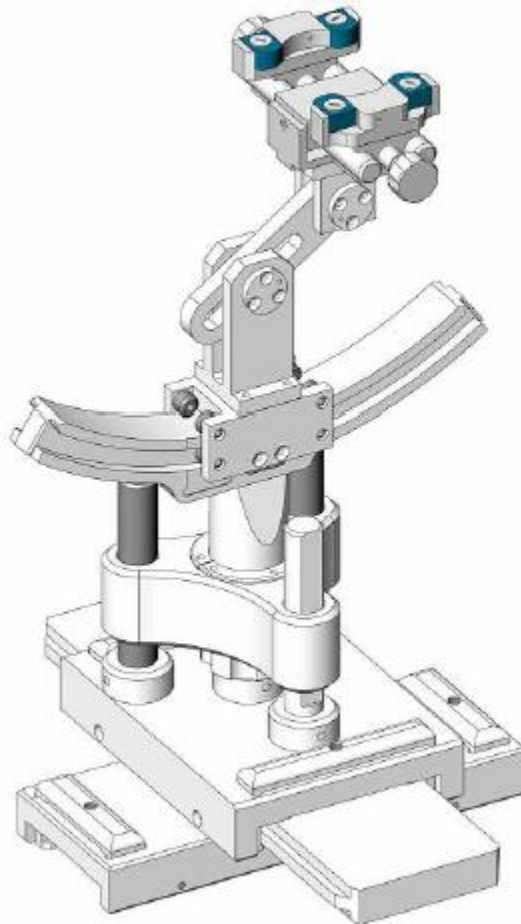


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 µm.

2.5. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
<input checked="" type="checkbox"/>	MVG	E FIELD PROBE	SSE2	SN 08/16 EPGO287	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.

		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \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: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

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

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

3.3. Description of interpolation/extrapolation scheme

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

An extrapolation is used to determine these highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists of a full 3D scan over a specific area. This 3D scan is useful for multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scans to calculate the SAR value of the combined measurement as it is defined in the standard IEEE1528 and IEC62209.

3.5. Power Drift

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

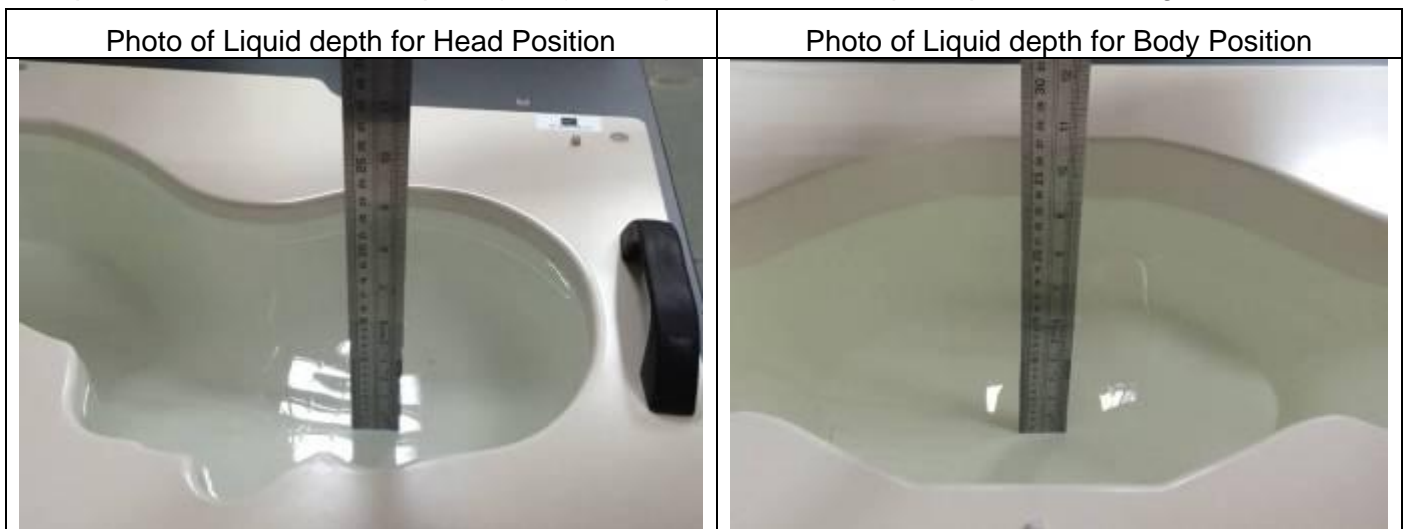
4. System Verification Procedure

4.1. Tissue Verification

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

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

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



4.1.1. Tissue Dielectric Parameter Check Results

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

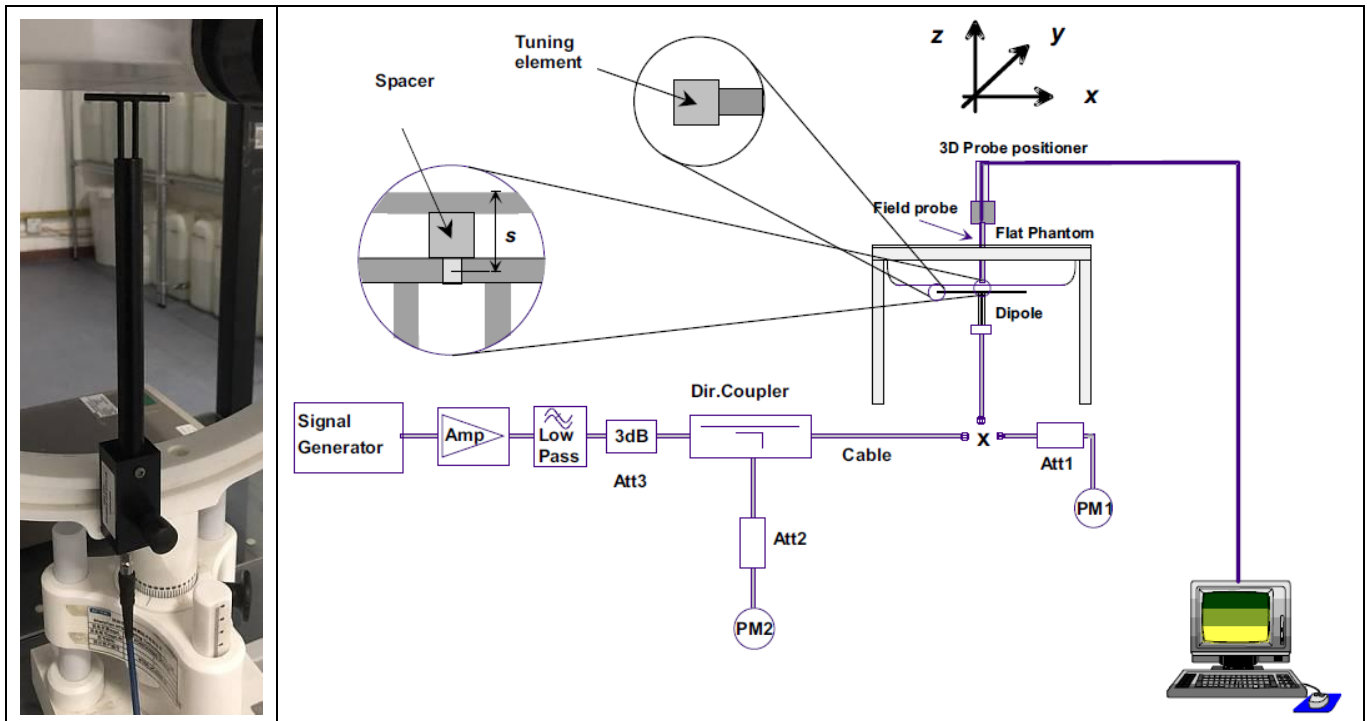
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.87	0.91	21.2 °C	Nov. 02, 2020
Body 750	750	55.55 (52.77~58.33)	0.96 (0.91~1.01)	55.60	0.97	21.1 °C	Nov. 02, 2020
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	40.93	0.92	21.3 °C	Nov. 03, 2020
Body 850	835	55.20 (52.44~57.96)	0.97 (0.92~1.02)	54.66	0.98	21.5 °C	Nov. 03, 2020
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.79	1.37	21.7 °C	Nov. 04, 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)	38.26	2.01	21.4 °C	Nov. 05, 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)	8.54	5.47	21.2 °C	Nov. 02, 2020
750MHz Body	8.85 (7.97~9.74)	5.91 (5.32~6.50)	8.27	5.77	21.1 °C	Nov. 02, 2020
835MHz Head	9.55 (8.60~10.51)	6.10 (5.49~6.71)	9.80	6.19	21.3 °C	Nov. 03, 2020
835MHz Body	9.83 (8.85~10.81)	6.45 (5.81~7.10)	9.65	6.68	21.5 °C	Nov. 03, 2020
1800MHz Head	38.11 (34.30~41.92)	20.05 (18.05~22.06)	36.70	19.27	21.7 °C	Nov. 04, 2020
1800MHz Body	38.13 (34.32~41.94)	20.65 (18.59~22.72)	39.50	20.46	21.3 °C	Nov. 10, 2020
1900MHz Head	38.92 (35.03~42.81)	20.09 (18.08~22.10)	39.49	19.16	21.1 °C	Nov. 11, 2020
1900MHz Body	39.02 (35.12~42.92)	20.57 (18.51~22.63)	38.05	20.01	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)	53.00	24.46	21.4 °C	Nov. 05, 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 (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Ear and handset reference point

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



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

6.2. Definition of the cheek position

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

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

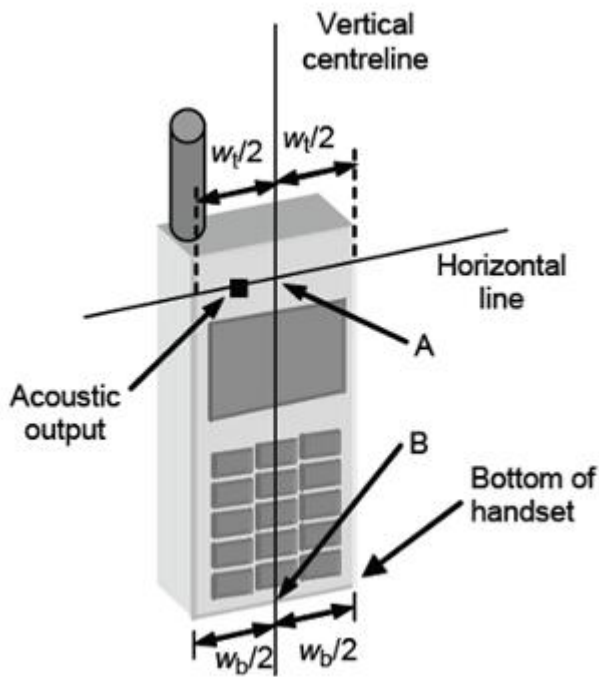


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

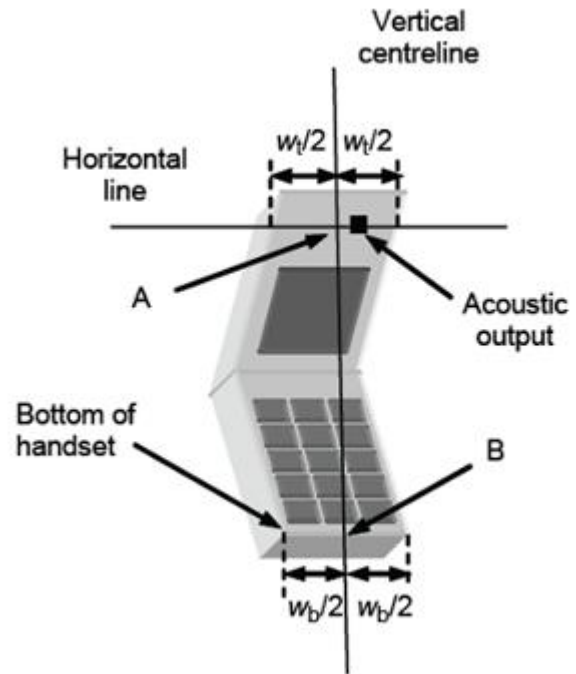


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

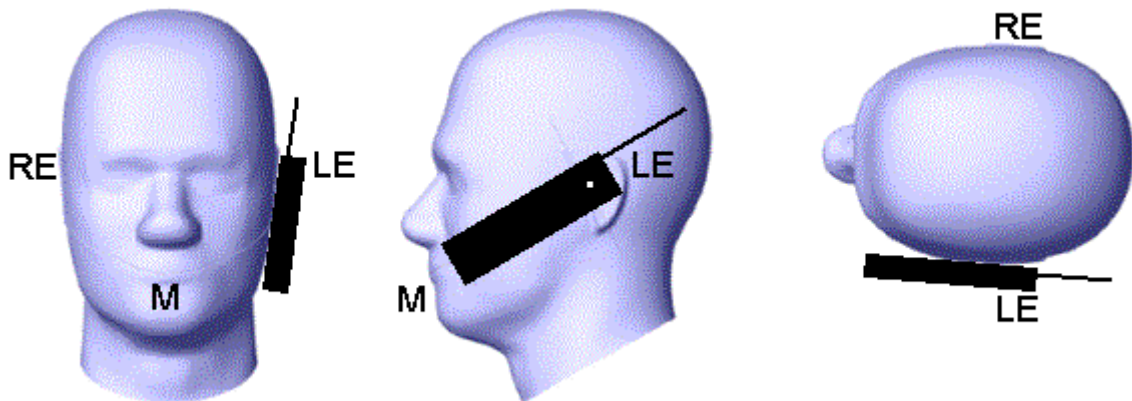


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

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

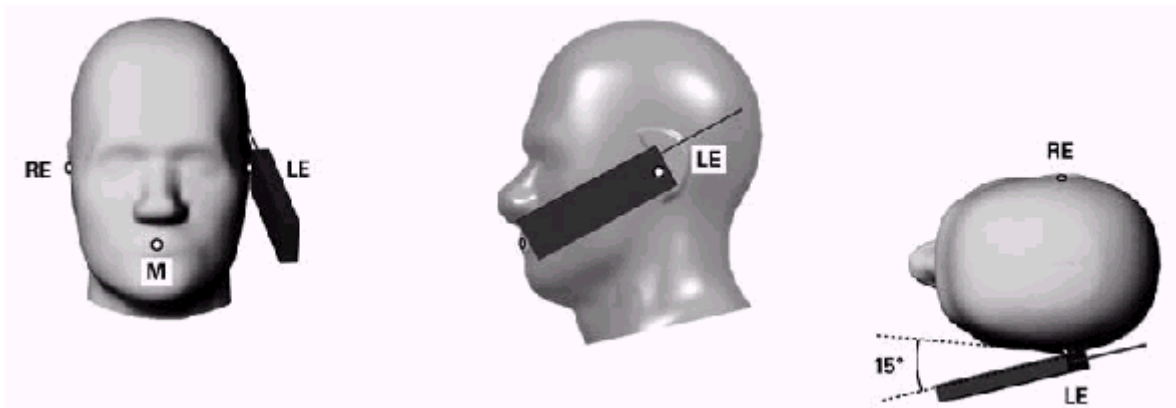


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

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

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

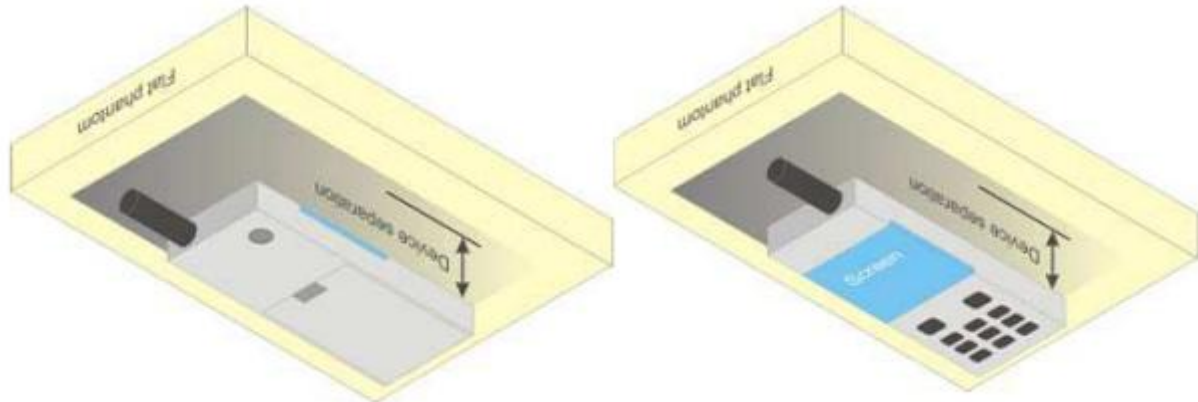


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

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

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

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM (GMSK)	33.00	32.81	32.77	32.78	23.97	23.78	23.74	23.75
GPRS(GMSK, 1 TS)	33.00	32.86	32.81	32.84	23.97	23.83	23.78	23.81
GPRS(GMSK, 2 TS)	32.00	31.97	31.85	31.87	25.98	25.95	25.83	25.85
GPRS(GMSK, 3 TS)	30.00	29.98	29.88	29.93	25.74	25.72	25.62	25.67
GPRS(GMSK, 4 TS)	29.00	28.82	28.73	28.79	25.99	25.81	25.72	25.78
EDGE(GMSK, 1 TS)	26.00	25.29	25.16	25.24	16.97	16.26	16.13	16.21
EDGE(GMSK, 2 TS)	24.00	23.42	23.10	23.08	17.98	17.40	17.08	17.06
EDGE(GMSK, 3 TS)	22.00	21.65	21.45	21.41	17.74	17.39	17.19	17.15
EDGE(GMSK, 4 TS)	21.00	20.23	20.03	20.08	17.99	17.22	17.02	17.07
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)	30.00	28.24	29.17	29.58	20.97	19.21	20.14	20.55
GPRS(GMSK, 1 TS)	30.00	28.24	29.17	29.59	20.97	19.21	20.14	20.56
GPRS(GMSK, 2 TS)	29.00	27.52	28.44	28.87	22.98	21.50	22.42	22.85
GPRS(GMSK, 3 TS)	27.50	25.82	26.74	27.16	23.24	21.56	22.48	22.90
GPRS(GMSK, 4 TS)	26.50	24.75	25.68	26.09	23.49	21.74	22.67	23.08
EDGE(GMSK, 1 TS)	27.00	25.76	26.23	26.28	17.97	16.73	17.20	17.25
EDGE(GMSK, 2 TS)	26.00	24.85	25.21	25.19	19.98	18.83	19.19	19.17
EDGE(GMSK, 3 TS)	24.00	23.08	23.35	23.34	19.74	18.82	19.09	19.08
EDGE(GMSK, 4 TS)	23.00	22.06	22.38	22.38	19.99	19.05	19.37	19.37

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	23.00	21.85	21.98	22.13
HSDPA Subtest-1	22.00	20.88	21.04	21.20
HSDPA Subtest-2	21.00	20.27	20.51	20.34
HSDPA Subtest-3	20.00	19.51	19.64	19.56
HSDPA Subtest-4	20.00	19.31	19.72	19.73
HSUPA Subtest-1	21.00	20.41	20.85	20.66
HSUPA Subtest-2	22.00	20.85	21.00	21.04
HSUPA Subtest-3	20.00	19.65	19.53	19.80
HSUPA Subtest-4	22.00	20.91	21.06	21.20
HSUPA Subtest-5	21.00	20.04	20.03	20.46
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC 12.2Kbps	23.00	22.07	22.05	22.11
HSDPA Subtest-1	22.00	21.12	21.08	21.14
HSDPA Subtest-2	21.00	20.31	20.73	20.63
HSDPA Subtest-3	20.00	19.44	19.62	19.41
HSDPA Subtest-4	20.00	19.45	19.77	19.71
HSUPA Subtest-1	21.00	20.69	20.68	20.73
HSUPA Subtest-2	22.00	21.03	21.05	21.06
HSUPA Subtest-3	21.00	19.72	19.87	20.07
HSUPA Subtest-4	22.00	21.14	21.08	21.13
HSUPA Subtest-5	21.00	20.35	20.11	20.43
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC 12.2Kbps	23.00	22.79	22.76	22.78
HSDPA Subtest-1	22.00	21.83	21.80	21.85
HSDPA Subtest-2	22.00	21.30	21.01	21.23
HSDPA Subtest-3	21.00	20.46	20.43	20.52
HSDPA Subtest-4	21.00	20.15	20.33	20.38
HSUPA Subtest-1	22.00	21.54	21.34	21.33
HSUPA Subtest-2	22.00	21.66	21.68	21.73
HSUPA Subtest-3	21.00	20.55	20.42	20.59

HSUPA Subtest-4	22.00	21.80	21.77	21.83
HSUPA Subtest-5	22.00	21.25	21.08	21.22

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	22.76	22.86	22.99
			1	2	24.00	22.90	22.98	23.09
			1	5	24.00	22.78	22.84	22.95
			3	0	24.00	22.82	22.98	23.05
			3	1	24.00	22.86	22.96	23.04
			3	2	24.00	22.82	22.98	23.02
		16QAM	6	0	23.00	21.81	21.95	22.06
			1	0	23.00	21.86	22.18	21.89
			1	2	23.00	21.98	22.28	22.05
			1	5	23.00	21.90	22.18	21.88
			3	0	23.00	21.96	22.26	22.27
			3	1	23.00	22.00	22.26	22.26
			3	2	23.00	21.98	22.29	22.26
			6	0	22.00	20.99	21.18	21.25

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	22.76	22.91	23.02
			1	7	24.00	23.04	23.19	23.35
			1	14	24.00	22.70	22.93	22.98
			8	0	23.00	21.85	22.00	22.09
			8	4	23.00	21.82	22.02	22.07
			8	7	23.00	21.82	21.96	22.08
			15	0	23.00	21.80	22.00	22.05
		16QAM	1	0	23.00	22.18	22.24	22.00
			1	7	23.00	22.57	22.52	22.40
			1	14	23.00	22.25	22.21	21.96
			8	0	22.00	20.87	21.01	21.08
			8	4	22.00	20.90	21.06	21.11
			8	7	22.00	20.88	20.97	21.08
			15	0	22.00	20.83	20.95	21.15

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	22.62	22.86	22.97
			1	12	24.00	22.98	23.28	23.34
			1	24	24.00	22.71	22.89	22.94
			12	0	23.00	21.86	22.07	22.19
			12	6	23.00	21.92	22.07	22.17

			12	11	23.00	21.89	21.96	22.14
			25	0	23.00	21.92	22.01	22.14
		16QAM	1	0	23.00	21.97	22.51	22.41
			1	12	23.00	22.51	22.90	22.76
			1	24	23.00	22.10	22.47	22.32
			12	0	22.00	20.93	21.05	21.12
			12	6	22.00	20.95	21.09	21.12
			12	11	22.00	20.93	21.00	21.06
			25	0	22.00	20.86	21.02	21.19
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.00	22.74	22.94	23.06
			1	24	24.00	22.95	23.07	23.22
			1	49	24.00	22.90	22.91	23.03
			25	0	23.00	21.95	22.18	22.32
			25	12	23.00	21.98	22.02	22.16
			25	24	23.00	22.06	22.06	22.15
		16QAM	50	0	23.00	22.05	22.15	22.25
			1	0	23.00	22.19	22.22	21.96
			1	24	23.00	22.43	22.28	22.13
			1	49	23.00	22.41	22.18	21.94
			25	0	22.00	21.05	21.16	21.35
			25	12	22.00	21.02	21.12	21.19
			25	24	22.00	21.12	21.02	21.14
			50	0	22.00	21.11	21.20	21.24
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	22.72	22.89	23.01
			1	37	24.00	23.10	23.17	23.30
			1	74	24.00	22.95	22.92	22.89
			36	0	23.00	21.97	22.16	22.27
			36	18	23.00	21.99	22.09	22.27
			36	37	23.00	22.16	22.04	22.11
		16QAM	75	0	23.00	22.08	22.12	22.25
			1	0	23.00	22.15	22.20	22.26
			1	37	23.00	22.71	22.49	22.43
			1	74	23.00	22.40	22.23	22.09
			36	0	22.00	20.97	21.23	21.19
			36	18	22.00	21.05	21.12	21.15
			36	37	22.00	21.17	21.11	21.04
			75	0	22.00	21.13	21.11	21.22
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	22.68	22.89	22.98
			1	49	24.00	23.04	23.09	23.24
			1	99	24.00	22.80	22.86	22.90

			50	0	23.00	21.93	22.28	22.12
			50	24	23.00	22.09	22.09	22.12
			50	49	23.00	22.26	22.09	21.94
			100	0	23.00	22.09	22.19	22.03
		16QAM	1	0	23.00	22.04	22.20	22.39
			1	49	23.00	22.52	22.44	22.55
			1	99	23.00	22.23	22.25	22.27
			50	0	22.00	21.06	21.27	21.14
			50	24	22.00	21.17	21.11	21.24
			50	49	22.00	21.33	21.08	21.00
100	0	22.00	21.15	21.21	21.08			

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	22.76	22.75	22.57
			1	2	23.00	22.88	22.91	22.74
			1	5	23.00	22.73	22.73	22.57
			3	0	23.00	22.77	22.75	22.72
			3	1	23.00	22.78	22.73	22.73
			3	2	23.00	22.77	22.69	22.73
		16QAM	6	0	22.00	21.80	21.70	21.69
			1	0	22.00	21.52	21.64	21.77
			1	2	22.00	21.64	21.78	21.91
			1	5	22.00	21.53	21.65	21.77
			3	0	22.00	21.88	21.80	21.92
			3	1	22.00	21.87	21.80	21.92
			3	2	22.00	21.88	21.75	21.91
			6	0	21.00	20.93	20.80	20.80

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	24.00	22.77	22.67	22.76
			1	7	24.00	23.00	23.00	22.95
			1	14	24.00	22.74	22.63	22.68
			8	0	22.00	21.75	21.69	21.73
			8	4	22.00	21.78	21.74	21.76
			8	7	22.00	21.77	21.69	21.69
			15	0	22.00	21.70	21.60	21.69
		16QAM	1	0	23.00	22.08	21.77	21.55
			1	7	23.00	22.38	22.06	21.76
			1	14	23.00	22.09	21.72	21.47
			8	0	21.00	20.77	20.67	20.66
			8	4	21.00	20.78	20.65	20.70
			8	7	21.00	20.79	20.61	20.64
			15	0	21.00	20.78	20.57	20.71

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5

LTE Band 4	5MHz	QPSK	1	0	24.00	22.71	22.64	22.60
			1	12	24.00	23.00	23.00	23.00
			1	24	24.00	22.73	22.58	22.57
			12	0	22.00	21.68	21.68	21.72
			12	6	22.00	21.79	21.73	21.74
			12	11	22.00	21.75	21.64	21.73
			25	0	22.00	21.74	21.66	21.70
		16QAM	1	0	23.00	22.10	21.85	21.87
			1	12	23.00	22.50	22.21	22.13
			1	24	23.00	22.11	21.79	21.87
			12	0	21.00	20.69	20.60	20.74
			12	6	21.00	20.78	20.66	20.78
			12	11	21.00	20.78	20.52	20.68
			25	0	21.00	20.72	20.67	20.68
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	23.00	22.71	22.74	22.59
			1	24	23.00	22.88	22.78	22.80
			1	49	23.00	22.74	22.60	22.61
			25	0	22.00	21.75	21.78	21.72
			25	12	22.00	21.79	21.71	21.72
			25	24	22.00	21.85	21.63	21.79
			50	0	22.00	21.78	21.68	21.74
		16QAM	1	0	23.00	22.05	21.76	21.42
			1	24	23.00	22.21	21.87	21.63
			1	49	23.00	22.04	21.69	21.46
			25	0	21.00	20.78	20.75	20.68
			25	12	21.00	20.82	20.68	20.73
			25	24	21.00	20.88	20.62	20.79
			50	0	21.00	20.75	20.74	20.73
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	24.00	22.73	22.73	22.54
			1	37	24.00	23.00	22.96	22.90
			1	74	24.00	22.73	22.53	22.62
			36	0	22.00	21.88	21.94	21.73
			36	18	22.00	21.95	21.85	21.81
			36	37	22.00	21.91	21.80	21.87
			75	0	22.00	21.90	21.87	21.81
		16QAM	1	0	23.00	21.81	21.76	21.90
			1	37	23.00	22.06	22.04	22.29
			1	74	23.00	21.75	21.67	21.95
			36	0	21.00	20.86	20.79	20.71
			36	18	21.00	20.91	20.73	20.74
			36	37	21.00	20.91	20.67	20.75
			75	0	21.00	20.83	20.81	20.74
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration					
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	23.00	22.67	22.69	22.57
			1	49	23.00	22.94	22.80	22.82
			1	99	23.00	22.63	22.51	22.58
			50	0	22.00	21.68	21.77	21.63
			50	24	22.00	21.76	21.72	21.67
			50	49	22.00	21.71	21.64	21.74
		16QAM	100	0	22.00	21.66	21.67	21.68
			1	0	23.00	21.92	21.78	21.69
			1	49	23.00	22.14	21.90	21.98
			1	99	23.00	21.81	21.71	21.78
			50	0	21.00	20.68	20.79	20.71
			50	24	21.00	20.83	20.63	20.74
			50	49	21.00	20.72	20.57	20.78
			100	0	21.00	20.64	20.69	20.72

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	22.00	21.65	21.57	21.47
			1	2	22.00	21.71	21.69	21.66
			1	5	22.00	21.65	21.52	21.51
			3	0	22.00	21.63	21.63	21.65
			3	1	22.00	21.66	21.63	21.65
			3	2	22.00	21.59	21.62	21.65
		16QAM	6	0	21.00	20.64	20.54	20.58
			1	0	21.00	20.43	20.74	20.75
			1	2	21.00	20.60	20.89	20.87
			1	5	21.00	20.44	20.77	20.72
			3	0	21.00	20.75	20.80	20.87
			3	1	21.00	20.79	20.81	20.88
			3	2	21.00	20.81	20.80	20.86
			6	0	20.00	19.83	19.78	19.72

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	22.00	21.69	21.62	21.62
			1	7	22.00	21.98	21.64	21.79
			1	14	22.00	21.63	21.63	21.65
			8	0	21.00	20.62	20.56	20.57
			8	4	21.00	20.63	20.56	20.64
			8	7	21.00	20.64	20.61	20.60
			15	0	21.00	20.58	20.60	20.36
		16QAM	1	0	22.00	21.05	20.81	20.48
			1	7	22.00	21.38	21.14	20.70
			1	14	22.00	21.06	20.83	20.22
			8	0	20.00	19.67	19.65	19.36

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	8	4	20.00	19.69	19.64	19.33
			8	7	20.00	19.68	19.61	19.22
			15	0	20.00	19.66	19.53	19.33
			1	0	22.00	21.55	21.50	21.16
			1	12	22.00	21.93	21.81	21.50
			1	24	22.00	21.55	21.47	21.00
			12	0	21.00	20.64	20.62	20.24
		16QAM	12	6	21.00	20.67	20.63	20.14
			12	11	21.00	20.58	20.58	20.11
			25	0	21.00	20.66	20.64	20.18
			1	0	22.00	21.06	20.88	20.35
			1	12	22.00	21.48	21.09	20.82
			1	24	22.00	21.06	20.54	20.35
			12	0	20.00	19.65	19.55	19.22
			12	6	20.00	19.73	19.64	19.22
LTE Band 5	10MHz	QPSK	12	11	20.00	19.59	19.52	19.15
			25	0	20.00	19.65	19.66	19.19
			1	0	22.00	21.64	21.30	21.07
			1	24	22.00	21.76	21.27	21.15
			1	49	22.00	21.54	21.15	21.11
			25	0	21.00	20.70	20.38	20.20
			25	12	21.00	20.68	20.28	20.12
		16QAM	25	24	21.00	20.63	20.35	20.00
			50	0	21.00	20.68	20.32	20.19
			1	0	21.00	20.47	20.57	20.22
			1	24	21.00	20.59	20.59	20.38
			1	49	21.00	20.29	20.52	20.30
			25	0	20.00	19.73	19.26	19.23
			25	12	20.00	19.56	19.20	19.16
			25	24	20.00	19.62	19.27	19.02
50	0	20.00	19.67	19.26	19.27			

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	23.00	22.36	22.39	22.56
			1	12	23.00	22.85	22.87	23.00
			1	24	23.00	22.46	22.39	22.62
			12	0	22.00	21.43	21.52	21.66
			12	6	22.00	21.49	21.63	21.81
			12	11	22.00	21.45	21.58	21.75
			25	0	22.00	21.46	21.54	21.75
		16QAM	1	0	23.00	21.86	21.75	21.89

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
			1	12	23.00	22.32	22.15	22.31
			1	24	23.00	21.94	21.79	21.96
			12	0	21.00	20.45	20.46	20.72
			12	6	21.00	20.51	20.55	20.86
			12	11	21.00	20.49	20.54	20.83
			25	0	21.00	20.46	20.61	20.73
LTE Band 7	10MHz	QPSK	1	0	23.00	22.35	22.44	22.61
			1	24	23.00	22.56	22.65	22.76
			1	49	23.00	22.40	22.51	22.70
			25	0	22.00	21.39	21.49	21.71
			25	12	22.00	21.48	21.55	21.68
			25	24	22.00	21.46	21.56	21.76
		16QAM	50	0	22.00	21.48	21.55	21.77
			1	0	23.00	21.59	21.36	22.08
			1	24	23.00	21.78	21.44	22.17
			1	49	23.00	21.63	21.36	22.12
			25	0	21.00	20.49	20.49	20.74
			25	12	21.00	20.52	20.58	20.77
			25	24	21.00	20.56	20.64	20.83
			50	0	21.00	20.54	20.57	20.82
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	23.00	22.36	22.39	22.60
			1	37	23.00	22.62	22.65	22.86
			1	74	23.00	22.41	22.39	22.69
			36	0	22.00	21.45	21.53	21.73
			36	18	22.00	21.52	21.57	21.78
			36	37	22.00	21.43	21.61	21.87
		16QAM	75	0	22.00	21.52	21.55	21.79
			1	0	23.00	21.54	21.53	22.08
			1	37	23.00	21.91	21.96	22.41
			1	74	23.00	21.62	21.57	22.10
			36	0	21.00	20.56	20.41	20.76
			36	18	21.00	20.59	20.53	20.79
			36	37	21.00	20.57	20.55	20.79
			75	0	21.00	20.50	20.61	20.78
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	23.00	22.33	22.40	22.42
			1	49	23.00	22.53	22.62	22.71
			1	99	23.00	22.39	22.45	22.64
			50	0	22.00	21.46	21.46	21.73
			50	24	22.00	21.49	21.53	21.75

	16QAM	50	49	22.00	21.46	21.50	21.74
		100	0	22.00	21.47	21.49	21.74
		1	0	23.00	21.55	21.75	21.86
		1	49	23.00	21.79	21.88	22.10
		1	99	23.00	21.70	21.76	22.02
		50	0	21.00	20.53	20.50	20.89
		50	24	21.00	20.53	20.63	20.86
		50	49	21.00	20.47	20.63	20.89
		100	0	21.00	20.56	20.47	20.84

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	24.00	23.36	23.51	23.54
			1	2	24.00	23.58	23.64	23.68
			1	5	24.00	23.58	23.46	23.50
			3	0	24.00	23.47	23.65	23.66
			3	1	24.00	23.57	23.67	23.65
			3	2	24.00	23.69	23.65	23.60
		16QAM	1	0	23.00	22.52	22.75	22.48
			1	2	23.00	22.72	22.88	22.56
			1	5	23.00	22.70	22.74	22.39
			3	0	23.00	22.61	22.87	22.80
			3	1	23.00	22.67	22.87	22.77
			3	2	23.00	22.77	22.88	22.74
			6	0	22.00	21.64	21.73	21.77

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	24.00	23.39	23.53	23.56
			1	7	24.00	23.85	23.86	23.81
			1	14	24.00	23.52	23.53	23.58
			8	0	23.00	22.47	22.50	22.57
			8	4	23.00	22.58	22.56	22.59
			8	7	23.00	22.51	22.58	22.56
			15	0	23.00	22.46	22.56	22.52
		16QAM	1	0	24.00	22.78	22.80	22.35
			1	7	24.00	23.32	23.05	22.45
			1	14	24.00	22.95	22.80	22.15
			8	0	22.00	21.54	21.58	21.28
			8	4	22.00	21.62	21.64	21.47
			8	7	22.00	21.56	21.60	21.20
			15	0	22.00	21.54	21.53	21.36

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	24.00	23.30	22.98	22.97
			1	12	24.00	23.93	23.48	23.51

12			1	24	24.00	23.58	23.01	22.99			
			12	0	23.00	22.66	21.94	22.27			
			12	6	23.00	22.59	22.12	22.12			
			12	11	23.00	22.54	22.28	22.07			
			25	0	23.00	22.55	22.10	22.23			
			1	0	24.00	22.61	22.35	22.51			
			1	12	24.00	23.08	22.73	22.90			
		16QAM	1	24	24.00	22.66	22.29	22.51			
			12	0	22.00	21.37	21.00	21.29			
			12	6	22.00	21.27	21.19	21.20			
			12	11	22.00	21.18	21.19	21.13			
			25	0	22.00	21.25	21.09	21.22			
						RB Configuration			Channel/Frequency(MHz)		
			Band	Band Width	Modulation	RB Size	RB Offset	Tune-up	23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	24.00	23.13	23.03	22.96			
			1	24	24.00	23.22	23.17	23.11			
			1	49	24.00	23.17	23.00	23.03			
			25	0	23.00	22.30	21.94	21.94			
			25	12	23.00	22.14	22.08	22.11			
			25	24	23.00	22.50	22.00	21.94			
			50	0	23.00	22.39	22.02	21.99			
		16QAM	1	0	23.00	21.84	22.49	22.28			
			1	24	23.00	22.14	22.63	22.33			
			1	49	23.00	21.95	22.48	22.23			
			25	0	22.00	21.39	21.04	21.02			
			25	12	22.00	21.21	21.18	21.13			
			25	24	22.00	21.50	21.10	21.01			
			50	0	22.00	21.46	21.06	21.08			

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	24.00	23.60	23.10	23.08
			1	12	24.00	23.99	23.45	23.44
			1	24	24.00	23.53	23.10	23.13
			12	0	23.00	22.55	22.10	22.29
			12	6	23.00	22.55	22.19	22.25
			12	11	23.00	22.84	21.95	22.27
			25	0	23.00	22.58	22.06	22.27
		16QAM	1	0	23.00	22.42	22.67	22.42
			1	12	23.00	22.83	22.99	22.85
			1	24	23.00	22.49	22.60	22.46
			12	0	22.00	21.11	21.06	21.29
			12	6	22.00	21.28	21.23	21.21
			12	11	22.00	21.34	20.99	21.20
			25	0	22.00	21.25	21.02	21.33
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	24.00	23.16	23.13	23.15
			1	24	24.00	23.27	23.23	23.22
			1	49	24.00	23.20	23.14	23.18
			25	0	23.00	21.96	21.97	22.09
			25	12	23.00	22.16	22.14	22.18
			25	24	23.00	21.96	21.95	22.03
		16QAM	50	0	23.00	21.98	21.97	22.08
			1	0	23.00	22.07	22.57	22.37
			1	24	23.00	22.18	22.67	22.42
			1	49	23.00	22.06	22.56	22.37
			25	0	22.00	20.94	21.02	21.10
			25	12	22.00	21.14	21.20	21.18
			25	24	22.00	21.00	20.95	21.06
			50	0	22.00	20.96	20.94	21.13

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	14.00	13.75
	6	2437	14.00	13.65
	11	2462	14.00	13.74
802.11g	1	2412	14.00	13.13
	6	2437	14.00	12.55
	11	2462	14.00	13.13
802.11n HT20	1	2412	14.00	13.22
	6	2437	14.00	12.63
	11	2462	14.00	13.34
802.11n HT40	3	2422	13.00	12.47
	6	2437	13.00	12.12
	9	2452	13.00	11.08

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	13.00	12.35
	40	5200	13.00	11.75
	48	5240	13.00	12.24
802.11n HT20	36	5180	13.00	12.46
	40	5200	13.00	11.79
	48	5240	13.00	12.62

802.11n HT40	38	5190	13.00	12.05
	46	5230	13.00	11.81
802.11ac VHT20	36	5180	13.00	11.53
	40	5200	13.00	11.34
	48	5240	13.00	12.10
802.11ac VHT40	38	5190	12.00	11.46
	46	5230	12.00	11.51
802.11ac VHT80	42	5210	11.00	10.47

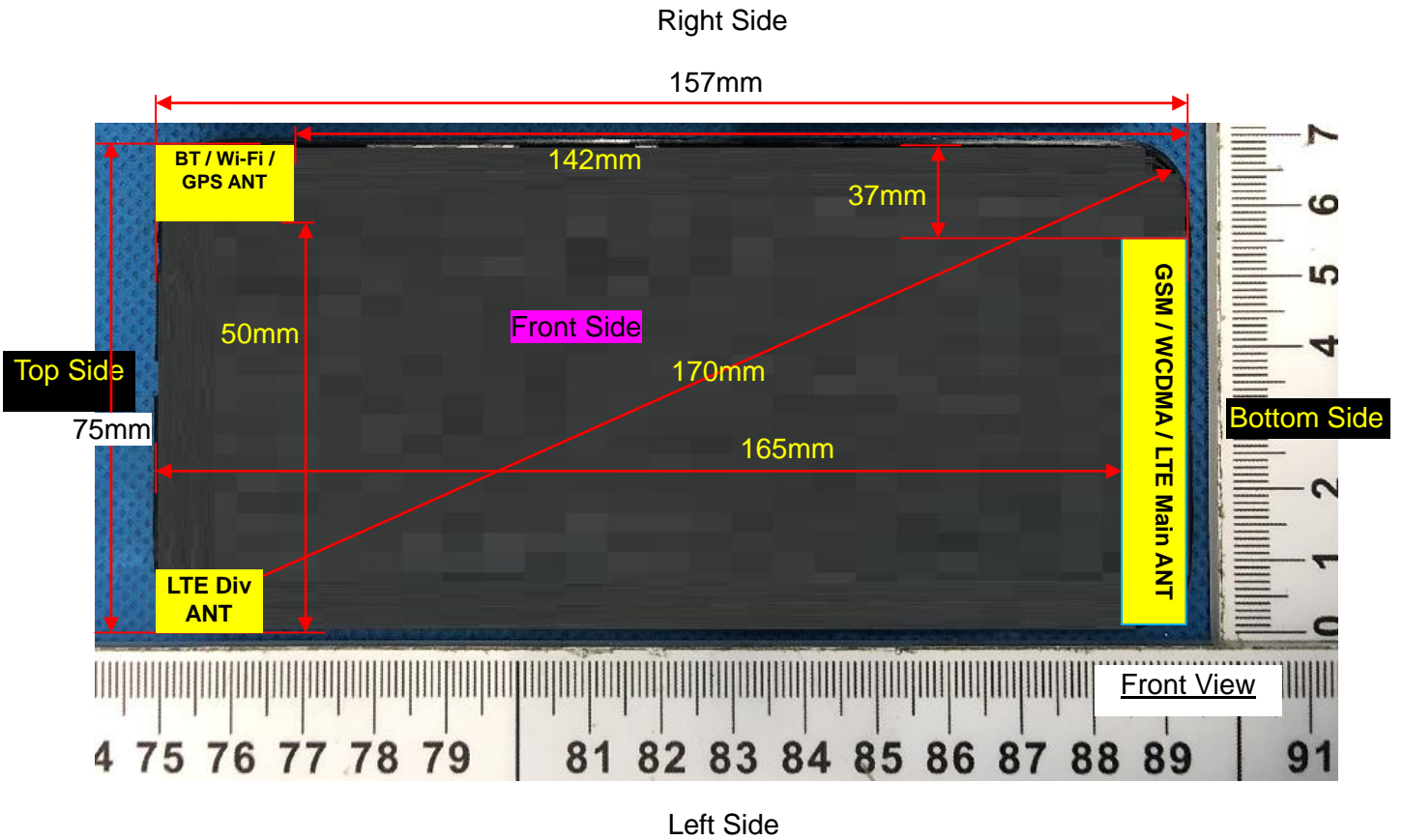
NOTE: Power measurement results of WLAN 5.2G.

7.4.2. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
	0CH	6.000	4.673	5.298	5.706
	39CH	6.000	4.799	4.936	5.335
	78CH	6.000	4.393	4.171	4.741

BLE	Channel	Data Rates	Tune-up	Output Power (dBm)
	0CH	1M	5.000	4.621
	19CH	1M	6.000	5.193
	39CH	1M	7.000	6.324

8. Antenna Location



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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ 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	7.00	5.01	5	2.480	1.58	3.0	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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

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

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

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	7.00	5.01	5	2.480	7.5	0.210
Bluetooth	Body	7.00	5.01	10	2.480	7.5	0.105
Bluetooth	Hotspot	7.00	5.01	10	2.480	7.5	0.105

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 2TS)	0.419	0.304	-0.69	31.85	32.00	0.434	2020/11/03

Left Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.239	0.173	-4.09	31.85	32.00	0.247	2020/11/03
Right Cheek	189/836.4	GPRS(GMSK 2TS)	0.371	0.267	0.82	31.85	32.00	0.384	2020/11/03
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.190	0.136	-2.98	31.85	32.00	0.197	2020/11/03

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 2TS)	0.317	0.228	-2.65	31.85	32.00	0.328	2020/11/03
Back Side	189/836.4	GPRS(GMSK 2TS)	0.401	0.294	-2.10	31.85	32.00	0.415	2020/11/03

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 2TS)	0.317	0.228	-2.65	31.85	32.00	0.328	2020/11/03
Back Side	189/836.4	GPRS(GMSK 2TS)	0.401	0.294	-2.10	31.85	32.00	0.415	2020/11/03
Left Side	189/836.4	GPRS(GMSK 2TS)	0.139	0.097	0.15	31.85	32.00	0.144	2020/11/03
Bottom Side	189/836.4	GPRS(GMSK 2TS)	0.288	0.214	4.06	31.85	32.00	0.298	2020/11/03

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.217	0.136	-4.09	25.68	26.50	0.262	2020/11/11
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.109	0.064	-3.14	25.68	26.50	0.132	2020/11/11

Right Cheek	661/1880	GPRS(GMSK 4TS)	0.198	0.129	3.17	25.68	26.50	0.239	2020/11/11
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.093	0.061	-1.00	25.68	26.50	0.112	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)	0.478	0.287	3.98	25.68	26.50	0.577	2020/11/11
Back Side	661/1880	GPRS(GMSK 4TS)	0.567	0.336	0.55	25.68	26.50	0.685	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)	0.478	0.287	3.98	25.68	26.50	0.577	2020/11/11
Back Side	661/1880	GPRS(GMSK 4TS)	0.567	0.336	0.55	25.68	26.50	0.685	2020/11/11
Left Side	661/1880	GPRS(GMSK 4TS)	0.196	0.121	-0.71	25.68	26.50	0.237	2020/11/11
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.449	0.264	1.76	25.68	26.50	0.542	2020/11/11

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	0.235	0.141	-2.42	21.98	23.00	0.297	2020/11/11
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.129	0.078	-2.79	21.98	23.00	0.163	2020/11/11
Right Cheek	9400/1880	RMC12.2K	0.206	0.119	0.55	21.98	23.00	0.261	2020/11/11
Right Tilt 15	9400/1880	RMC12.2K	0.105	0.062	-3.35	21.98	23.00	0.133	2020/11/11

Degree									
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NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.572	0.312	-4.23	21.98	23.00	0.723	2020/11/11
Back Side	9400/1880	RMC12.2K	0.793	0.432	0.23	21.98	23.00	1.003	2020/11/11
Back Side	9262/1852.4	RMC12.2K	0.750	0.409	0.89	21.85	23.00	0.977	2020/11/11
Back Side	9538/1907.6	RMC12.2K	0.697	0.389	1.28	22.13	23.00	0.852	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 (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.572	0.312	-4.23	21.98	23.00	0.723	2020/11/11
Back Side	9400/1880	RMC12.2K	0.793	0.432	0.23	21.98	23.00	1.003	2020/11/11
Left Side	9400/1880	RMC12.2K	0.415	0.277	0.34	21.98	23.00	0.525	2020/11/11
Bottom Side	9400/1880	RMC12.2K	0.507	0.301	3.17	21.98	23.00	0.641	2020/11/11
Back Side	9262/1852.4	RMC12.2K	0.750	0.409	0.89	21.85	23.00	0.977	2020/11/11
Back Side	9538/1907.6	RMC12.2K	0.697	0.389	1.28	22.13	23.00	0.852	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	0.216	0.136	-2.57	22.05	23.00	0.269	2020/11/04
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.113	0.073	-4.83	22.05	23.00	0.141	2020/11/04
Right Cheek	1413/1732.6	RMC12.2K	0.191	0.115	0.29	22.05	23.00	0.238	2020/11/04
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.088	0.056	-3.79	22.05	23.00	0.110	2020/11/04

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.589	0.361	-1.45	22.05	23.00	0.733	2020/11/10
Back Side	1413/1732.6	RMC12.2K	0.715	0.437	-0.08	22.05	23.00	0.890	2020/11/10
Back Side	1312/1712.4	RMC12.2K	0.667	0.409	0.34	22.07	23.00	0.826	2020/11/10
Back Side	1513/1752.6	RMC12.2K	0.687	0.415	-2.53	22.11	23.00	0.843	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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.589	0.361	-1.45	22.05	23.00	0.733	2020/11/10
Back Side	1413/1732.6	RMC12.2K	0.715	0.437	-0.08	22.05	23.00	0.890	2020/11/10
Left Side	1413/1732.6	RMC12.2K	0.281	0.174	0.20	22.05	23.00	0.350	2020/11/10
Bottom Side	1413/1732.6	RMC12.2K	0.504	0.303	4.05	22.05	23.00	0.627	2020/11/10
Back Side	1312/1712.4	RMC12.2K	0.667	0.409	0.34	22.07	23.00	0.826	2020/11/10
Back Side	1513/1752.6	RMC12.2K	0.687	0.415	-2.53	22.11	23.00	0.843	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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	4182/836.4	RMC12.2K	0.308	0.230	-4.46	22.76	23.00	0.325	2020/11/03
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.167	0.121	-4.10	22.76	23.00	0.176	2020/11/03
Right Cheek	4182/836.4	RMC12.2K	0.276	0.211	4.84	22.76	23.00	0.292	2020/11/03
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.140	0.108	3.88	22.76	23.00	0.148	2020/11/03

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g	Date
			1g	10g					

								(W/Kg)	
Front Side	4182/836.4	RMC12.2K	0.232	0.179	-0.79	22.76	23.00	0.245	2020/11/03
Back Side	4182/836.4	RMC12.2K	0.282	0.213	-0.34	22.76	23.00	0.298	2020/11/03

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.232	0.179	-0.79	22.76	23.00	0.245	2020/11/03
Back Side	4182/836.4	RMC12.2K	0.282	0.213	-0.34	22.76	23.00	0.298	2020/11/03
Left Side	4182/836.4	RMC12.2K	0.102	0.075	-0.74	22.76	23.00	0.108	2020/11/03
Bottom Side	4182/836.4	RMC12.2K	0.198	0.153	3.88	22.76	23.00	0.209	2020/11/03

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of LTE Band 2

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	18900/1880	20M QPSK(1,49)	0.310	0.180	2.02	23.09	24.00	0.382	2020/11/11
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.166	0.093	0.28	23.09	24.00	0.205	2020/11/11
Right Cheek	18900/1880	20M QPSK(1,49)	0.289	0.170	0.78	23.09	24.00	0.356	2020/11/11
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.147	0.085	0.55	23.09	24.00	0.181	2020/11/11
50%RB									
Left Cheek	18900/1880	1.4M QPSK(3,0)	0.273	0.168	1.33	22.98	24.00	0.345	2020/11/11
Left Tilt 15 Degree	18900/1880	1.4M QPSK(3,0)	0.157	0.084	-2.55	22.98	24.00	0.199	2020/11/11
Right Cheek	18900/1880	1.4M QPSK(3,0)	0.268	0.156	1.84	22.98	24.00	0.339	2020/11/11
Right	18900/1880	1.4M	0.135	0.080	-2.25	22.98	24.00	0.171	2020/11/11

Tilt 15 Degree		QPSK(3,0)							
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NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.509	0.280	-0.90	23.09	24.00	0.628	2020/11/11
Back Side	18900/1880	20M QPSK(1,49)	0.971	0.528	-0.83	23.09	24.00	1.197	2020/11/11
Back Side Repeated	18900/1880	20M QPSK(1,49)	0.967	0.525	0.34	23.09	24.00	1.192	2020/11/11
Back Side	18700/1860	20M QPSK(1,49)	0.928	0.501	0.34	23.04	24.00	1.158	2020/11/11
Back Side	19100/1900	20M QPSK(1,49)	0.915	0.497	-1.14	23.24	24.00	1.090	2020/11/11
50%RB									
Front Side	18900/1880	1.4M QPSK(3,0)	0.255	0.160	0.26	22.98	24.00	0.323	2020/11/11
Back Side	18900/1880	1.4M QPSK(3,0)	0.566	0.283	-3.26	22.98	24.00	0.716	2020/11/11
100%RB									
Back Side	18900/1880	20M QPSK(100,0)	0.355	0.203	-1.24	22.19	23.00	0.428	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 (±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)	0.509	0.280	-0.90	23.09	24.00	0.628	2020/11/11
Back Side	18900/1880	20M QPSK(1,49)	0.971	0.528	-0.83	23.09	24.00	1.197	2020/11/11
Back	18900/1880	20M	0.967	0.525	0.34	23.09	24.00	1.192	2020/11/11

Side Repeated		QPSK(1,49)							
Left Side	18900/1880	20M QPSK(1,49)	0.242	0.137	4.90	23.09	24.00	0.298	2020/11/11
Bottom Side	18900/1880	20M QPSK(1,49)	0.458	0.257	-4.07	23.09	24.00	0.565	2020/11/11
Back Side	18700/1860	20M QPSK(1,49)	0.928	0.501	0.34	23.04	24.00	1.158	2020/11/11
Back Side	19100/1900	20M QPSK(1,49)	0.915	0.497	-1.14	23.24	24.00	1.090	2020/11/11
50%RB									
Front Side	18900/1880	1.4M QPSK(3,0)	0.255	0.160	0.26	22.98	24.00	0.323	2020/11/11
Back Side	18900/1880	1.4M QPSK(3,0)	0.566	0.283	-3.26	22.98	24.00	0.716	2020/11/11
Left Side	18900/1880	1.4M QPSK(3,0)	0.130	0.080	0.59	22.98	24.00	0.164	2020/11/11
Bottom Side	18900/1880	1.4M QPSK(3,0)	0.244	0.151	4.96	22.98	24.00	0.309	2020/11/11
100%RB									
Back Side	18900/1880	20M QPSK(100,0)	0.355	0.203	-1.24	22.19	23.00	0.428	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 (±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)	0.324	0.203	4.89	22.80	23.00	0.339	2020/11/04
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.175	0.107	2.37	22.80	23.00	0.183	2020/11/04
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.280	0.171	0.62	22.80	23.00	0.293	2020/11/04
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.151	0.096	0.78	22.80	23.00	0.158	2020/11/04

50%RB									
Left Cheek	20175/1732.5	1.4M QPSK(3,1)	0.304	0.178	4.62	22.73	23.00	0.323	2020/11/04
Left Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,1)	0.165	0.095	4.57	22.73	23.00	0.176	2020/11/04
Right Cheek	20175/1732.5	1.4M QPSK(3,1)	0.240	0.149	-4.44	22.73	23.00	0.255	2020/11/04
Right Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,1)	0.142	0.085	-4.52	22.73	23.00	0.151	2020/11/04

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20175/1732.5	20M QPSK(1,49)	0.587	0.359	-0.49	22.80	23.00	0.615	2020/11/10
Back Side	20175/1732.5	20M QPSK(1,49)	1.002	0.609	0.41	22.80	23.00	1.049	2020/11/10
Back Side Repeated	20175/1732.5	20M QPSK(1,49)	0.997	0.607	0.37	22.80	23.00	1.044	2020/11/10
Back Side	20050/1720	20M QPSK(1,49)	0.985	0.593	0.88	22.94	23.00	0.999	2020/11/10
Back Side	20300/1745	20M QPSK(1,49)	0.937	0.550	-2.57	22.82	23.00	0.977	2020/11/10
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,1)	0.312	0.200	2.00	22.73	23.00	0.332	2020/11/10
Back Side	20175/1732.5	1.4M QPSK(3,1)	0.566	0.306	-2.79	22.73	23.00	0.602	2020/11/10
100%RB									
Back Side	20175/1732.5	20M QPSK(100,0)	0.554	0.353	-0.89	21.67	22.00	0.598	2020/11/10

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

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

Hotspot with 10mm								(W/Kg)	
1RB									
Front Side	20175/1732.5	20M QPSK(1,49)	0.587	0.359	-0.49	22.80	23.00	0.615	2020/11/10
Back Side	20175/1732.5	20M QPSK(1,49)	1.002	0.609	0.41	22.80	23.00	1.049	2020/11/10
Back Side Repeated	20175/1732.5	20M QPSK(1,49)	0.997	0.607	0.37	22.80	23.00	1.044	2020/11/10
Left Side	20175/1732.5	20M QPSK(1,49)	0.287	0.176	4.42	22.80	23.00	0.301	2020/11/10
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.359	0.215	-3.18	22.80	23.00	0.376	2020/11/10
Back Side	20050/1720	20M QPSK(1,49)	0.985	0.593	0.88	22.94	23.00	0.999	2020/11/10
Back Side	20300/1745	20M QPSK(1,49)	0.937	0.550	-2.57	22.82	23.00	0.977	2020/11/10
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,1)	0.312	0.200	2.00	22.73	23.00	0.332	2020/11/10
Back Side	20175/1732.5	1.4M QPSK(3,1)	0.566	0.306	-2.79	22.73	23.00	0.602	2020/11/10
Left Side	20175/1732.5	1.4M QPSK(3,1)	0.163	0.096	2.32	22.73	23.00	0.173	2020/11/10
Bottom Side	20175/1732.5	1.4M QPSK(3,1)	0.184	0.121	-1.52	22.73	23.00	0.196	2020/11/10
100%RB									
Back Side	20175/1732.5	20M QPSK(100,0)	0.554	0.353	-0.89	21.67	22.00	0.598	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	20525/836.5	10M	0.340	0.258	0.38	21.27	22.00	0.402	2020/11/03

Cheek		QPSK(1,24)							
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.195	0.149	2.30	21.27	22.00	0.231	2020/11/03
Right Cheek	20525/836.5	10M QPSK(1,24)	0.301	0.228	2.08	21.27	22.00	0.356	2020/11/03
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.152	0.112	-4.34	21.27	22.00	0.180	2020/11/03
50%RB									
Left Cheek	20525/836.5	1.4M QPSK(3,1)	0.306	0.230	-1.70	21.63	22.00	0.333	2020/11/03
Left Tilt 15 Degree	20525/836.5	1.4M QPSK(3,1)	0.172	0.138	-2.30	21.63	22.00	0.187	2020/11/03
Right Cheek	20525/836.5	1.4M QPSK(3,1)	0.277	0.211	4.22	21.63	22.00	0.302	2020/11/03
Right Tilt 15 Degree	20525/836.5	1.4M QPSK(3,1)	0.141	0.106	3.48	21.63	22.00	0.154	2020/11/03

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(1,24)	0.270	0.206	-2.23	21.27	22.00	0.319	2020/11/03
Back Side	20525/836.5	10M QPSK(1,24)	0.339	0.255	-0.17	21.27	22.00	0.401	2020/11/03
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,1)	0.233	0.187	4.39	21.63	22.00	0.254	2020/11/03
Back Side	20525/836.5	1.4M QPSK(3,1)	0.310	0.229	-1.10	21.63	22.00	0.338	2020/11/03

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

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

Hotspot with 10mm								(W/Kg)	
1RB									
Front Side	20525/836.5	10M QPSK(1,24)	0.270	0.206	-2.23	21.27	22.00	0.319	2020/11/03
Back Side	20525/836.5	10M QPSK(1,24)	0.339	0.255	-0.17	21.27	22.00	0.401	2020/11/03
Left Side	20525/836.5	10M QPSK(1,24)	0.121	0.094	-3.39	21.27	22.00	0.143	2020/11/03
Bottom Side	20525/836.5	10M QPSK(1,24)	0.252	0.190	-4.22	21.27	22.00	0.298	2020/11/03
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,1)	0.233	0.187	4.39	21.63	22.00	0.254	2020/11/03
Back Side	20525/836.5	1.4M QPSK(3,1)	0.310	0.229	-1.10	21.63	22.00	0.338	2020/11/03
Left Side	20525/836.5	1.4M QPSK(3,1)	0.107	0.083	-0.64	21.63	22.00	0.117	2020/11/03
Bottom Side	20525/836.5	1.4M QPSK(3,1)	0.221	0.163	-4.85	21.63	22.00	0.241	2020/11/03

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)	0.410	0.221	-0.38	22.62	23.00	0.447	2020/11/05
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.242	0.127	1.06	22.62	23.00	0.264	2020/11/05
Right Cheek	21100/2535	20M QPSK(1,49)	0.370	0.198	-2.05	22.62	23.00	0.404	2020/11/05
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.198	0.109	-1.42	22.62	23.00	0.216	2020/11/05
50%RB									

Left Cheek	21100/2535	20M QPSK(50,24)	0.352	0.188	0.68	21.53	22.00	0.392	2020/11/05
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.217	0.119	-0.12	21.53	22.00	0.242	2020/11/05
Right Cheek	21100/2535	20M QPSK(50,24)	0.323	0.179	-4.42	21.53	22.00	0.360	2020/11/05
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.175	0.096	-0.31	21.53	22.00	0.195	2020/11/05

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 QPSK(1,49)	0.444	0.243	-2.27	22.62	23.00	0.485	2020/11/07
Back Side	21100/2535	20M QPSK(1,49)	1.088	0.584	-2.30	22.62	23.00	1.187	2020/11/07
Back Side Repeated	21100/2535	20M QPSK(1,49)	1.080	0.580	0.89	22.62	23.00	1.179	2020/11/07
Back Side	20850/2510	20M QPSK(1,49)	1.037	0.510	2.34	22.53	23.00	1.156	2020/11/07
Back Side	21350/2560	20M QPSK(1,49)	0.998	0.506	0.35	22.71	23.00	1.067	2020/11/07
50%RB									
Front Side	21100/2535	20M QPSK(50,24)	0.257	0.139	2.09	21.53	22.00	0.286	2020/11/07
Back Side	21100/2535	20M QPSK(50,24)	0.710	0.331	1.58	21.53	22.00	0.791	2020/11/07
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.560	0.287	0.36	21.49	22.00	0.630	2020/11/07

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

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

with 10mm									
1RB									
Front Side	21100/2535	20M QPSK(1,49)	0.444	0.243	-2.27	22.62	23.00	0.485	2020/11/07
Back Side	21100/2535	20M QPSK(1,49)	1.088	0.584	-2.30	22.62	23.00	1.187	2020/11/07
Back Side Repeated	21100/2535	20M QPSK(1,49)	1.080	0.580	0.89	22.62	23.00	1.179	2020/11/07
Left Side	21100/2535	20M QPSK(1,49)	0.417	0.206	-0.29	22.62	23.00	0.455	2020/11/07
Bottom Side	21100/2535	20M QPSK(1,49)	0.394	0.223	-1.43	22.62	23.00	0.430	2020/11/07
Back Side	20850/2510	20M QPSK(1,49)	1.037	0.510	2.34	22.53	23.00	1.156	2020/11/07
Back Side	21350/2560	20M QPSK(1,49)	0.998	0.506	0.35	22.71	23.00	1.067	2020/11/07
50%RB									
Front Side	21100/2535	20M QPSK(50,24)	0.257	0.139	2.09	21.53	22.00	0.286	2020/11/07
Back Side	21100/2535	20M QPSK(50,24)	0.710	0.331	1.58	21.53	22.00	0.791	2020/11/07
Left Side	21100/2535	20M QPSK(50,24)	0.226	0.116	-0.10	21.53	22.00	0.252	2020/11/07
Bottom Side	21100/2535	20M QPSK(50,24)	0.249	0.109	-2.35	21.53	22.00	0.277	2020/11/07
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.560	0.287	0.36	21.49	22.00	0.630	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 (±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)	0.212	0.172	0.24	23.17	24.00	0.257	2020/11/02

Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.113	0.091	-3.49	23.17	24.00	0.137	2020/11/02
Right Cheek	23095/707.5	10M QPSK(1,24)	0.197	0.163	1.50	23.17	24.00	0.238	2020/11/02
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.102	0.083	1.54	23.17	24.00	0.123	2020/11/02
50%RB									
Left Cheek	23095/707.5	1.4M QPSK(3,2)	0.194	0.162	1.59	23.65	24.00	0.210	2020/11/02
Left Tilt 15 Degree	23095/707.5	1.4M QPSK(3,2)	0.100	0.080	-4.90	23.65	24.00	0.108	2020/11/02
Right Cheek	23095/707.5	1.4M QPSK(3,2)	0.186	0.152	3.18	23.65	24.00	0.202	2020/11/02
Right Tilt 15 Degree	23095/707.5	1.4M QPSK(3,2)	0.094	0.072	2.69	23.65	24.00	0.102	2020/11/02

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)	0.246	0.200	2.24	23.17	24.00	0.298	2020/11/02
Back Side	23095/707.5	10M QPSK(1,24)	0.326	0.259	0.13	23.17	24.00	0.395	2020/11/02
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,2)	0.216	0.182	-4.33	23.65	24.00	0.234	2020/11/02
Back Side	23095/707.5	1.4M QPSK(3,2)	0.305	0.237	-0.75	23.65	24.00	0.331	2020/11/02

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

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

with 10mm									
1RB									
Front Side	23095/707.5	10M QPSK(1,24)	0.246	0.200	2.24	23.17	24.00	0.298	2020/11/02
Back Side	23095/707.5	10M QPSK(1,24)	0.326	0.259	0.13	23.17	24.00	0.395	2020/11/02
Left Side	23095/707.5	10M QPSK(1,24)	0.151	0.125	2.95	23.17	24.00	0.183	2020/11/02
Bottom Side	23095/707.5	10M QPSK(1,24)	0.249	0.203	1.05	23.17	24.00	0.301	2020/11/02
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,2)	0.216	0.182	-4.33	23.65	24.00	0.234	2020/11/02
Back Side	23095/707.5	1.4M QPSK(3,2)	0.305	0.237	-0.75	23.65	24.00	0.331	2020/11/02
Left Side	23095/707.5	1.4M QPSK(3,2)	0.141	0.113	-0.81	23.65	24.00	0.153	2020/11/02
Bottom Side	23095/707.5	1.4M QPSK(3,2)	0.218	0.186	2.72	23.65	24.00	0.236	2020/11/02

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 (±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)	0.231	0.185	1.58	23.23	24.00	0.276	2020/11/02
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.123	0.102	-1.44	23.23	24.00	0.147	2020/11/02
Right Cheek	23790/710	10M QPSK(1,24)	0.217	0.171	4.34	23.23	24.00	0.259	2020/11/02
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.102	0.081	-1.38	23.23	24.00	0.122	2020/11/02
50%RB									
Left	23790/710	10M	0.214	0.171	-2.90	22.14	23.00	0.261	2020/11/02

Cheek		QPSK(25,12)							
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.105	0.087	4.11	22.14	23.00	0.128	2020/11/02
Right Cheek	23790/710	10M QPSK(25,12)	0.195	0.158	-4.48	22.14	23.00	0.238	2020/11/02
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.090	0.070	-1.97	22.14	23.00	0.110	2020/11/02

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,24)	0.262	0.205	-2.31	23.23	24.00	0.313	2020/11/02
Back Side	23790/710	10M QPSK(1,24)	0.340	0.269	-0.30	23.23	24.00	0.406	2020/11/02
50%RB									
Front Side	23790/710	10M QPSK(25,12)	0.236	0.186	-4.97	22.14	23.00	0.288	2020/11/02
Back Side	23790/710	10M QPSK(25,12)	0.316	0.238	0.28	22.14	23.00	0.385	2020/11/02

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,24)	0.262	0.205	-2.31	23.23	24.00	0.313	2020/11/02
Back Side	23790/710	10M QPSK(1,24)	0.340	0.269	-0.30	23.23	24.00	0.406	2020/11/02
Left Side	23790/710	10M QPSK(1,24)	0.124	0.096	3.11	23.23	24.00	0.148	2020/11/02
Bottom	23790/710	10M	0.246	0.194	4.90	23.23	24.00	0.294	2020/11/02

Side		QPSK(1,24)							
50%RB									
Front Side	23790/710	10M QPSK(25,12)	0.236	0.186	-4.97	22.14	23.00	0.288	2020/11/02
Back Side	23790/710	10M QPSK(25,12)	0.316	0.238	0.28	22.14	23.00	0.385	2020/11/02
Left Side	23790/710	10M QPSK(25,12)	0.109	0.087	4.03	22.14	23.00	0.133	2020/11/02
Bottom Side	23790/710	10M QPSK(25,12)	0.211	0.170	-1.93	22.14	23.00	0.257	2020/11/02

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	0.492	0.240	2.83	13.65	14.00	0.533	2020/11/12
Left Tilt 15 Degree	6/2437	802.11 b	0.281	0.135	1.07	13.65	14.00	0.305	2020/11/12
Right Cheek	6/2437	802.11 b	0.421	0.206	1.41	13.65	14.00	0.456	2020/11/12
Right Tilt 15 Degree	6/2437	802.11 b	0.227	0.112	4.70	13.65	14.00	0.246	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	0.075	0.046	2.14	13.65	14.00	0.081	2020/11/12
Back Side	6/2437	802.11 b	0.119	0.072	-2.03	13.65	14.00	0.129	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	0.075	0.046	2.14	13.65	14.00	0.081	2020/11/12
Back Side	6/2437	802.11 b	0.119	0.072	-2.03	13.65	14.00	0.129	2020/11/12
Right Side	6/2437	802.11 b	0.028	0.015	-3.72	13.65	14.00	0.030	2020/11/12
Top Side	6/2437	802.11 b	0.038	0.023	1.12	13.65	14.00	0.041	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 (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	40/5200	802.11a	0.421	0.155	4.00	11.75	13.00	0.561	2020/11/06
Left Tilt 15 Degree	40/5200	802.11a	0.217	0.082	-0.86	11.75	13.00	0.289	2020/11/06
Right Cheek	40/5200	802.11a	0.399	0.144	-3.85	11.75	13.00	0.532	2020/11/06
Right Tilt 15 Degree	40/5200	802.11a	0.201	0.077	0.98	11.75	13.00	0.268	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 (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	40/5200	802.11a	0.197	0.103	3.19	11.75	13.00	0.263	2020/11/09
Back Side	40/5200	802.11a	0.243	0.131	-0.01	11.75	13.00	0.324	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 (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	40/5200	802.11a	0.197	0.103	3.19	11.75	13.00	0.263	2020/11/09
Back Side	40/5200	802.11a	0.243	0.131	-0.01	11.75	13.00	0.324	2020/11/09
Right Side	40/5200	802.11a	0.097	0.053	-0.80	11.75	13.00	0.129	2020/11/09
Top Side	40/5200	802.11a	0.109	0.054	3.58	11.75	13.00	0.145	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 < 1.6W/kg.
- 2) $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 2.4G			
Head	Left Cheek	0.434	0.533	0.967	N/A	N/A
	Left Tilt 15 Degree	0.247	0.305	0.552	N/A	N/A
	Right Cheek	0.384	0.456	0.840	N/A	N/A
	Right Tilt 15 Degree	0.197	0.246	0.443	N/A	N/A
Body-Worn	Front Side	0.328	0.081	0.409	N/A	N/A
	Back Side	0.415	0.129	0.544	N/A	N/A
Hotspot	Front Side	0.328	0.081	0.409	N/A	N/A
	Back Side	0.415	0.129	0.544	N/A	N/A
	Left Side	0.144	N/A	0.144	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.298	N/A	0.298	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	0.262	0.533	0.795	N/A	N/A
	Left Tilt 15 Degree	0.132	0.305	0.437	N/A	N/A
	Right Cheek	0.239	0.456	0.695	N/A	N/A
	Right Tilt 15 Degree	0.112	0.246	0.358	N/A	N/A
Body-Worn	Front Side	0.577	0.081	0.658	N/A	N/A
	Back Side	0.685	0.129	0.814	N/A	N/A
Hotspot	Front Side	0.577	0.081	0.658	N/A	N/A
	Back Side	0.685	0.129	0.814	N/A	N/A
	Left Side	0.237	N/A	0.237	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.542	N/A	0.542	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	0.297	0.533	0.830	N/A	N/A
	Left Tilt 15 Degree	0.163	0.305	0.468	N/A	N/A
	Right Cheek	0.261	0.456	0.717	N/A	N/A
	Right Tilt 15 Degree	0.133	0.246	0.379	N/A	N/A

Body-Worn	Front Side	0.723	0.081	0.804	N/A	N/A
	Back Side	1.003	0.129	1.132	N/A	N/A
Hotspot	Front Side	0.723	0.081	0.804	N/A	N/A
	Back Side	1.003	0.129	1.132	N/A	N/A
	Left Side	0.525	N/A	0.525	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.641	N/A	0.641	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	0.269	0.533	0.802	N/A	N/A
	Left Tilt 15 Degree	0.141	0.305	0.446	N/A	N/A
	Right Cheek	0.238	0.456	0.694	N/A	N/A
	Right Tilt 15 Degree	0.110	0.246	0.356	N/A	N/A
Body-Worn	Front Side	0.733	0.081	0.814	N/A	N/A
	Back Side	0.890	0.129	1.019	N/A	N/A
Hotspot	Front Side	0.733	0.081	0.814	N/A	N/A
	Back Side	0.890	0.129	1.019	N/A	N/A
	Left Side	0.350	N/A	0.350	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.627	N/A	0.627	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	0.325	0.533	0.858	N/A	N/A
	Left Tilt 15 Degree	0.176	0.305	0.481	N/A	N/A
	Right Cheek	0.292	0.456	0.748	N/A	N/A
	Right Tilt 15 Degree	0.148	0.246	0.394	N/A	N/A
Body-Worn	Front Side	0.245	0.081	0.326	N/A	N/A
	Back Side	0.298	0.129	0.427	N/A	N/A
Hotspot	Front Side	0.245	0.081	0.326	N/A	N/A
	Back Side	0.298	0.129	0.427	N/A	N/A
	Left Side	0.108	N/A	0.108	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A

	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.209	N/A	0.209	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	0.382	0.533	0.915	N/A	N/A
	Left Tilt 15 Degree	0.205	0.305	0.510	N/A	N/A
	Right Cheek	0.356	0.456	0.812	N/A	N/A
	Right Tilt 15 Degree	0.181	0.246	0.427	N/A	N/A
Body-Worn	Front Side	0.628	0.081	0.709	N/A	N/A
	Back Side	1.197	0.129	1.326	N/A	N/A
Hotspot	Front Side	0.628	0.081	0.709	N/A	N/A
	Back Side	1.197	0.129	1.326	N/A	N/A
	Left Side	0.298	N/A	0.298	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.565	N/A	0.565	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	0.339	0.533	0.872	N/A	N/A
	Left Tilt 15 Degree	0.183	0.305	0.488	N/A	N/A
	Right Cheek	0.293	0.456	0.749	N/A	N/A
	Right Tilt 15 Degree	0.158	0.246	0.404	N/A	N/A
Body-Worn	Front Side	0.615	0.081	0.696	N/A	N/A
	Back Side	1.049	0.129	1.178	N/A	N/A
Hotspot	Front Side	0.615	0.081	0.696	N/A	N/A
	Back Side	1.049	0.129	1.178	N/A	N/A
	Left Side	0.301	N/A	0.301	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.376	N/A	0.376	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	0.402	0.533	0.935	N/A	N/A

	Left Tilt 15 Degree	0.231	0.305	0.536	N/A	N/A
	Right Cheek	0.356	0.456	0.812	N/A	N/A
	Right Tilt 15 Degree	0.180	0.246	0.426	N/A	N/A
Body-Worn	Front Side	0.319	0.081	0.400	N/A	N/A
	Back Side	0.401	0.129	0.530	N/A	N/A
Hotspot	Front Side	0.319	0.081	0.400	N/A	N/A
	Back Side	0.401	0.129	0.530	N/A	N/A
	Left Side	0.143	N/A	0.143	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.298	N/A	0.298	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	0.447	0.533	0.980	N/A	N/A
	Left Tilt 15 Degree	0.264	0.305	0.569	N/A	N/A
	Right Cheek	0.404	0.456	0.860	N/A	N/A
	Right Tilt 15 Degree	0.216	0.246	0.462	N/A	N/A
Body-Worn	Front Side	0.485	0.081	0.566	N/A	N/A
	Back Side	1.187	0.129	1.316	N/A	N/A
Hotspot	Front Side	0.485	0.081	0.566	N/A	N/A
	Back Side	1.187	0.129	1.316	N/A	N/A
	Left Side	0.455	N/A	0.455	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.430	N/A	0.430	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	0.257	0.533	0.790	N/A	N/A
	Left Tilt 15 Degree	0.137	0.305	0.442	N/A	N/A
	Right Cheek	0.238	0.456	0.694	N/A	N/A
	Right Tilt 15 Degree	0.123	0.246	0.369	N/A	N/A
Body-Worn	Front Side	0.298	0.081	0.379	N/A	N/A
	Back Side	0.395	0.129	0.524	N/A	N/A

Hotspot	Front Side	0.298	0.081	0.379	N/A	N/A
	Back Side	0.395	0.129	0.524	N/A	N/A
	Left Side	0.183	N/A	0.183	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.301	N/A	0.301	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 (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 2.4G			
Head	Left Cheek	0.276	0.533	0.809	N/A	N/A
	Left Tilt 15 Degree	0.147	0.305	0.452	N/A	N/A
	Right Cheek	0.259	0.456	0.715	N/A	N/A
	Right Tilt 15 Degree	0.122	0.246	0.368	N/A	N/A
Body-Worn	Front Side	0.313	0.081	0.394	N/A	N/A
	Back Side	0.406	0.129	0.535	N/A	N/A
Hotspot	Front Side	0.313	0.081	0.394	N/A	N/A
	Back Side	0.406	0.129	0.535	N/A	N/A
	Left Side	0.148	N/A	0.148	N/A	N/A
	Right Side	N/A	0.030	0.030	N/A	N/A
	Top Side	N/A	0.041	0.041	N/A	N/A
	Bottom Side	0.294	N/A	0.294	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	0.434	0.561	0.995	N/A	N/A
	Left Tilt 15 Degree	0.247	0.289	0.536	N/A	N/A
	Right Cheek	0.384	0.532	0.916	N/A	N/A
	Right Tilt 15 Degree	0.197	0.268	0.465	N/A	N/A
Body-Worn	Front Side	0.328	0.263	0.591	N/A	N/A
	Back Side	0.415	0.324	0.739	N/A	N/A
Hotspot	Front Side	0.328	0.263	0.591	N/A	N/A
	Back Side	0.415	0.324	0.739	N/A	N/A
	Left Side	0.144	N/A	0.144	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.298	N/A	0.298	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	0.262	0.561	0.823	N/A	N/A
	Left Tilt 15 Degree	0.132	0.289	0.421	N/A	N/A
	Right Cheek	0.239	0.532	0.771	N/A	N/A
	Right Tilt 15 Degree	0.112	0.268	0.380	N/A	N/A
Body-Worn	Front Side	0.577	0.263	0.840	N/A	N/A
	Back Side	0.685	0.324	1.009	N/A	N/A
Hotspot	Front Side	0.577	0.263	0.840	N/A	N/A
	Back Side	0.685	0.324	1.009	N/A	N/A
	Left Side	0.237	N/A	0.237	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.542	N/A	0.542	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	0.297	0.561	0.858	N/A	N/A
	Left Tilt 15 Degree	0.163	0.289	0.452	N/A	N/A
	Right Cheek	0.261	0.532	0.793	N/A	N/A
	Right Tilt 15 Degree	0.133	0.268	0.401	N/A	N/A
Body-Worn	Front Side	0.723	0.263	0.986	N/A	N/A
	Back Side	1.003	0.324	1.327	N/A	N/A
Hotspot	Front Side	0.723	0.263	0.986	N/A	N/A
	Back Side	1.003	0.324	1.327	N/A	N/A
	Left Side	0.525	N/A	0.525	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.641	N/A	0.641	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	0.269	0.561	0.830	N/A	N/A
	Left Tilt 15 Degree	0.141	0.289	0.430	N/A	N/A

	Right Cheek	0.238	0.532	0.770	N/A	N/A
	Right Tilt 15 Degree	0.110	0.268	0.378	N/A	N/A
Body-Worn	Front Side	0.733	0.263	0.996	N/A	N/A
	Back Side	0.890	0.324	1.214	N/A	N/A
Hotspot	Front Side	0.733	0.263	0.996	N/A	N/A
	Back Side	0.890	0.324	1.214	N/A	N/A
	Left Side	0.350	N/A	0.350	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.627	N/A	0.627	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	0.325	0.561	0.886	N/A	N/A
	Left Tilt 15 Degree	0.176	0.289	0.465	N/A	N/A
	Right Cheek	0.292	0.532	0.824	N/A	N/A
	Right Tilt 15 Degree	0.148	0.268	0.416	N/A	N/A
Body-Worn	Front Side	0.245	0.263	0.508	N/A	N/A
	Back Side	0.298	0.324	0.622	N/A	N/A
Hotspot	Front Side	0.245	0.263	0.508	N/A	N/A
	Back Side	0.298	0.324	0.622	N/A	N/A
	Left Side	0.108	N/A	0.108	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.209	N/A	0.209	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	0.382	0.561	0.943	N/A	N/A
	Left Tilt 15 Degree	0.205	0.289	0.494	N/A	N/A
	Right Cheek	0.356	0.532	0.888	N/A	N/A
	Right Tilt 15 Degree	0.181	0.268	0.449	N/A	N/A
Body-Worn	Front Side	0.628	0.263	0.891	N/A	N/A
	Back Side	1.197	0.324	1.521	N/A	N/A
Hotspot	Front Side	0.628	0.263	0.891	N/A	N/A
	Back Side	1.197	0.324	1.521	N/A	N/A

	Left Side	0.298	N/A	0.298	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.565	N/A	0.565	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	0.339	0.561	0.900	N/A	N/A
	Left Tilt 15 Degree	0.183	0.289	0.472	N/A	N/A
	Right Cheek	0.293	0.532	0.825	N/A	N/A
	Right Tilt 15 Degree	0.158	0.268	0.426	N/A	N/A
Body-Worn	Front Side	0.615	0.263	0.878	N/A	N/A
	Back Side	1.049	0.324	1.373	N/A	N/A
Hotspot	Front Side	0.615	0.263	0.878	N/A	N/A
	Back Side	1.049	0.324	1.373	N/A	N/A
	Left Side	0.301	N/A	0.301	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.376	N/A	0.376	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	0.402	0.561	0.963	N/A	N/A
	Left Tilt 15 Degree	0.231	0.289	0.520	N/A	N/A
	Right Cheek	0.356	0.532	0.888	N/A	N/A
	Right Tilt 15 Degree	0.180	0.268	0.448	N/A	N/A
Body-Worn	Front Side	0.319	0.263	0.582	N/A	N/A
	Back Side	0.401	0.324	0.725	N/A	N/A
Hotspot	Front Side	0.319	0.263	0.582	N/A	N/A
	Back Side	0.401	0.324	0.725	N/A	N/A
	Left Side	0.143	N/A	0.143	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.298	N/A	0.298	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	SPLSR	Remark
---------------	---------------------------	--	-----------	-------	--------

		LTE Band 7	WLAN 5.2G	(W/Kg)		
Head	Left Cheek	0.447	0.561	1.008	N/A	N/A
	Left Tilt 15 Degree	0.264	0.289	0.553	N/A	N/A
	Right Cheek	0.404	0.532	0.936	N/A	N/A
	Right Tilt 15 Degree	0.216	0.268	0.484	N/A	N/A
Body-Worn	Front Side	0.485	0.263	0.748	N/A	N/A
	Back Side	1.187	0.324	1.511	N/A	N/A
Hotspot	Front Side	0.485	0.263	0.748	N/A	N/A
	Back Side	1.187	0.324	1.511	N/A	N/A
	Left Side	0.455	N/A	0.455	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.430	N/A	0.430	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	0.257	0.561	0.818	N/A	N/A
	Left Tilt 15 Degree	0.137	0.289	0.426	N/A	N/A
	Right Cheek	0.238	0.532	0.770	N/A	N/A
	Right Tilt 15 Degree	0.123	0.268	0.391	N/A	N/A
Body-Worn	Front Side	0.298	0.263	0.561	N/A	N/A
	Back Side	0.395	0.324	0.719	N/A	N/A
Hotspot	Front Side	0.298	0.263	0.561	N/A	N/A
	Back Side	0.395	0.324	0.719	N/A	N/A
	Left Side	0.183	N/A	0.183	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.301	N/A	0.301	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	0.276	0.561	0.837	N/A	N/A
	Left Tilt 15 Degree	0.147	0.289	0.436	N/A	N/A
	Right Cheek	0.259	0.532	0.791	N/A	N/A
	Right Tilt 15	0.122	0.268	0.390	N/A	N/A

	Degree					
Body-Worn	Front Side	0.313	0.263	0.576	N/A	N/A
	Back Side	0.406	0.324	0.730	N/A	N/A
Hotspot	Front Side	0.313	0.263	0.576	N/A	N/A
	Back Side	0.406	0.324	0.730	N/A	N/A
	Left Side	0.148	N/A	0.148	N/A	N/A
	Right Side	N/A	0.129	0.129	N/A	N/A
	Top Side	N/A	0.145	0.145	N/A	N/A
	Bottom Side	0.294	N/A	0.294	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	0.434	0.210	0.644	N/A	N/A
	Left Tilt 15 Degree	0.247	0.210	0.457	N/A	N/A
	Right Cheek	0.384	0.210	0.594	N/A	N/A
	Right Tilt 15 Degree	0.197	0.210	0.407	N/A	N/A
Body-Worn	Front Side	0.328	0.105	0.433	N/A	N/A
	Back Side	0.415	0.105	0.520	N/A	N/A
Hotspot	Front Side	0.328	0.105	0.433	N/A	N/A
	Back Side	0.415	0.105	0.520	N/A	N/A
	Left Side	0.144	N/A	0.144	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.298	N/A	0.298	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	0.262	0.210	0.472	N/A	N/A
	Left Tilt 15 Degree	0.132	0.210	0.342	N/A	N/A
	Right Cheek	0.239	0.210	0.449	N/A	N/A
	Right Tilt 15 Degree	0.112	0.210	0.322	N/A	N/A
Body-Worn	Front Side	0.577	0.105	0.682	N/A	N/A
	Back Side	0.685	0.105	0.790	N/A	N/A
Hotspot	Front Side	0.577	0.105	0.682	N/A	N/A
	Back Side	0.685	0.105	0.790	N/A	N/A
	Left Side	0.237	N/A	0.237	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A

	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.542	N/A	0.542	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	0.297	0.210	0.507	N/A	N/A
	Left Tilt 15 Degree	0.163	0.210	0.373	N/A	N/A
	Right Cheek	0.261	0.210	0.471	N/A	N/A
	Right Tilt 15 Degree	0.133	0.210	0.343	N/A	N/A
Body-Worn	Front Side	0.723	0.105	0.828	N/A	N/A
	Back Side	1.003	0.105	1.108	N/A	N/A
Hotspot	Front Side	0.723	0.105	0.828	N/A	N/A
	Back Side	1.003	0.105	1.108	N/A	N/A
	Left Side	0.525	N/A	0.525	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.641	N/A	0.641	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	0.269	0.210	0.479	N/A	N/A
	Left Tilt 15 Degree	0.141	0.210	0.351	N/A	N/A
	Right Cheek	0.238	0.210	0.448	N/A	N/A
	Right Tilt 15 Degree	0.110	0.210	0.320	N/A	N/A
Body-Worn	Front Side	0.733	0.105	0.838	N/A	N/A
	Back Side	0.890	0.105	0.995	N/A	N/A
Hotspot	Front Side	0.733	0.105	0.838	N/A	N/A
	Back Side	0.890	0.105	0.995	N/A	N/A
	Left Side	0.350	N/A	0.350	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.627	N/A	0.627	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	Bluetooth			

		Band 5				
Head	Left Cheek	0.325	0.210	0.535	N/A	N/A
	Left Tilt 15 Degree	0.176	0.210	0.386	N/A	N/A
	Right Cheek	0.292	0.210	0.502	N/A	N/A
	Right Tilt 15 Degree	0.148	0.210	0.358	N/A	N/A
Body-Worn	Front Side	0.245	0.105	0.350	N/A	N/A
	Back Side	0.298	0.105	0.403	N/A	N/A
Hotspot	Front Side	0.245	0.105	0.350	N/A	N/A
	Back Side	0.298	0.105	0.403	N/A	N/A
	Left Side	0.108	N/A	0.108	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.209	N/A	0.209	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	0.382	0.210	0.592	N/A	N/A
	Left Tilt 15 Degree	0.205	0.210	0.415	N/A	N/A
	Right Cheek	0.356	0.210	0.566	N/A	N/A
	Right Tilt 15 Degree	0.181	0.210	0.391	N/A	N/A
Body-Worn	Front Side	0.628	0.105	0.733	N/A	N/A
	Back Side	1.197	0.105	1.302	N/A	N/A
Hotspot	Front Side	0.628	0.105	0.733	N/A	N/A
	Back Side	1.197	0.105	1.302	N/A	N/A
	Left Side	0.298	N/A	0.298	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.565	N/A	0.565	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	0.339	0.210	0.549	N/A	N/A
	Left Tilt 15 Degree	0.183	0.210	0.393	N/A	N/A
	Right Cheek	0.293	0.210	0.503	N/A	N/A
	Right Tilt 15 Degree	0.158	0.210	0.368	N/A	N/A

Body-Worn	Front Side	0.615	0.105	0.720	N/A	N/A
	Back Side	1.049	0.105	1.154	N/A	N/A
Hotspot	Front Side	0.615	0.105	0.720	N/A	N/A
	Back Side	1.049	0.105	1.154	N/A	N/A
	Left Side	0.301	N/A	0.301	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.376	N/A	0.376	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	0.402	0.210	0.612	N/A	N/A
	Left Tilt 15 Degree	0.231	0.210	0.441	N/A	N/A
	Right Cheek	0.356	0.210	0.566	N/A	N/A
	Right Tilt 15 Degree	0.180	0.210	0.390	N/A	N/A
Body-Worn	Front Side	0.319	0.105	0.424	N/A	N/A
	Back Side	0.401	0.105	0.506	N/A	N/A
Hotspot	Front Side	0.319	0.105	0.424	N/A	N/A
	Back Side	0.401	0.105	0.506	N/A	N/A
	Left Side	0.143	N/A	0.143	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.298	N/A	0.298	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	0.447	0.210	0.657	N/A	N/A
	Left Tilt 15 Degree	0.264	0.210	0.474	N/A	N/A
	Right Cheek	0.404	0.210	0.614	N/A	N/A
	Right Tilt 15 Degree	0.216	0.210	0.426	N/A	N/A
Body-Worn	Front Side	0.485	0.105	0.590	N/A	N/A
	Back Side	1.187	0.105	1.292	N/A	N/A
Hotspot	Front Side	0.485	0.105	0.590	N/A	N/A
	Back Side	1.187	0.105	1.292	N/A	N/A
	Left Side	0.455	N/A	0.455	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A

	Bottom Side	0.430	N/A	0.430	N/A	N/A
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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	0.257	0.210	0.467	N/A	N/A
	Left Tilt 15 Degree	0.137	0.210	0.347	N/A	N/A
	Right Cheek	0.238	0.210	0.448	N/A	N/A
	Right Tilt 15 Degree	0.123	0.210	0.333	N/A	N/A
Body-Worn	Front Side	0.298	0.105	0.403	N/A	N/A
	Back Side	0.395	0.105	0.500	N/A	N/A
Hotspot	Front Side	0.298	0.105	0.403	N/A	N/A
	Back Side	0.395	0.105	0.500	N/A	N/A
	Left Side	0.183	N/A	0.183	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.301	N/A	0.301	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	0.276	0.210	0.486	N/A	N/A
	Left Tilt 15 Degree	0.147	0.210	0.357	N/A	N/A
	Right Cheek	0.259	0.210	0.469	N/A	N/A
	Right Tilt 15 Degree	0.122	0.210	0.332	N/A	N/A
Body-Worn	Front Side	0.313	0.105	0.418	N/A	N/A
	Back Side	0.406	0.105	0.511	N/A	N/A
Hotspot	Front Side	0.313	0.105	0.418	N/A	N/A
	Back Side	0.406	0.105	0.511	N/A	N/A
	Left Side	0.148	N/A	0.148	N/A	N/A
	Right Side	N/A	0.105	0.105	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.294	N/A	0.294	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
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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

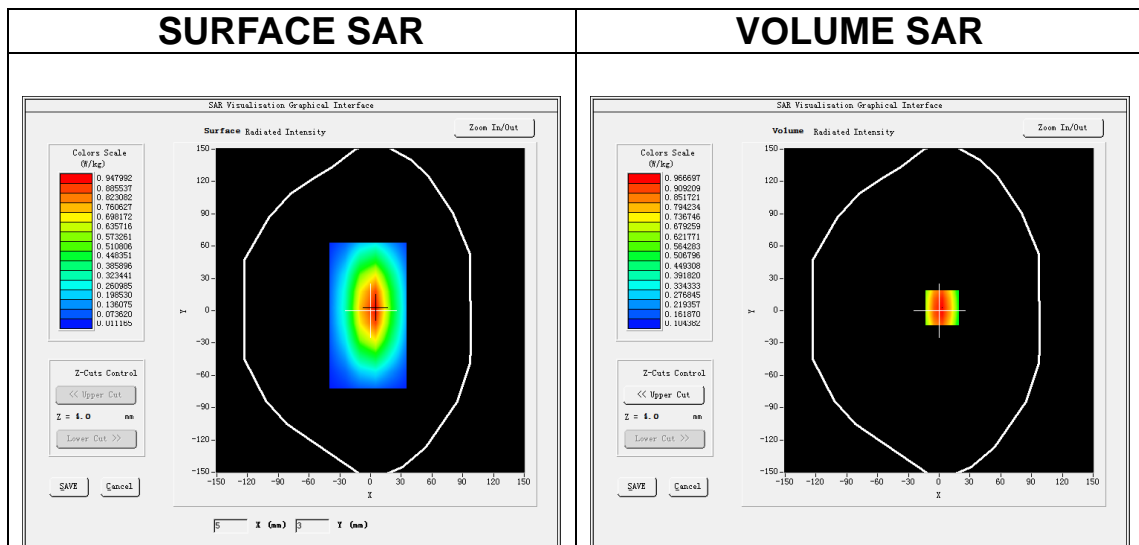
Date of measurement: 2/11/2020

A. Experimental conditions.

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

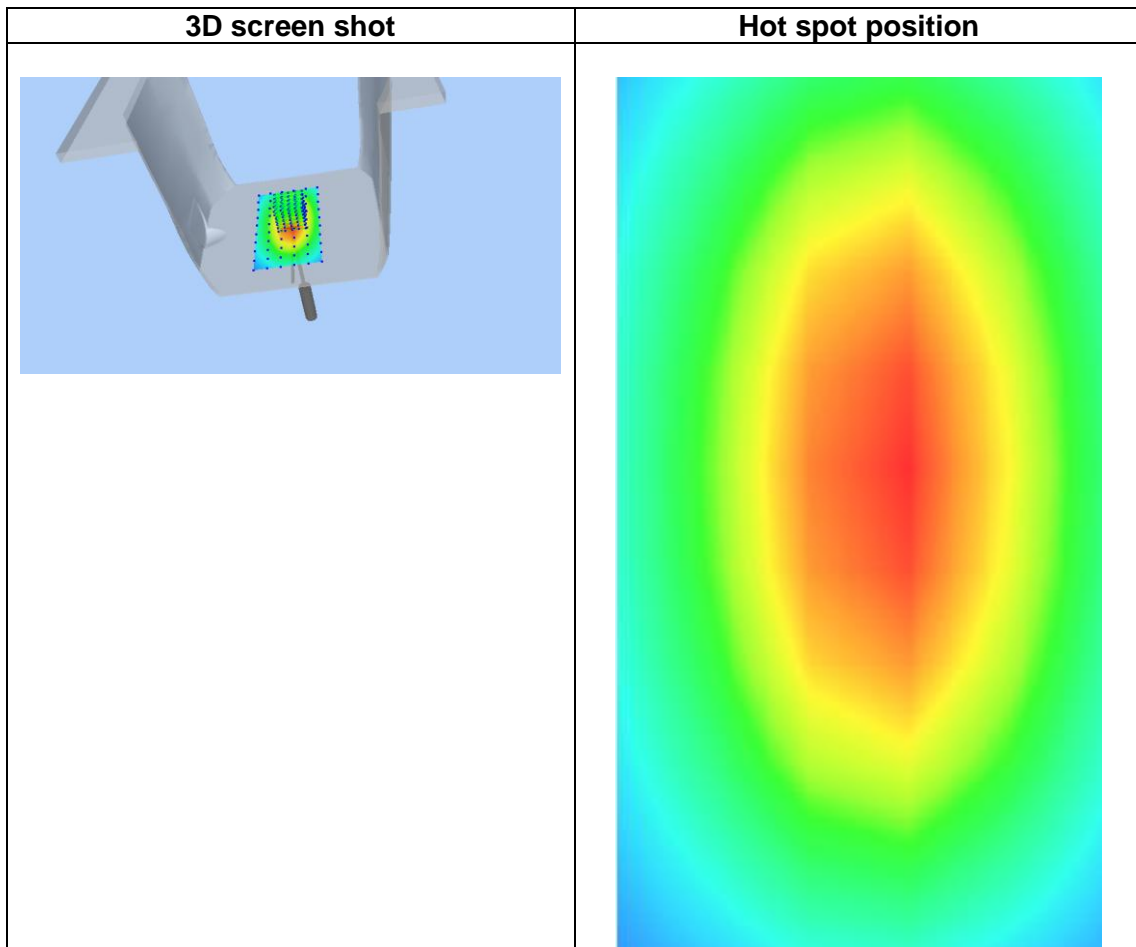
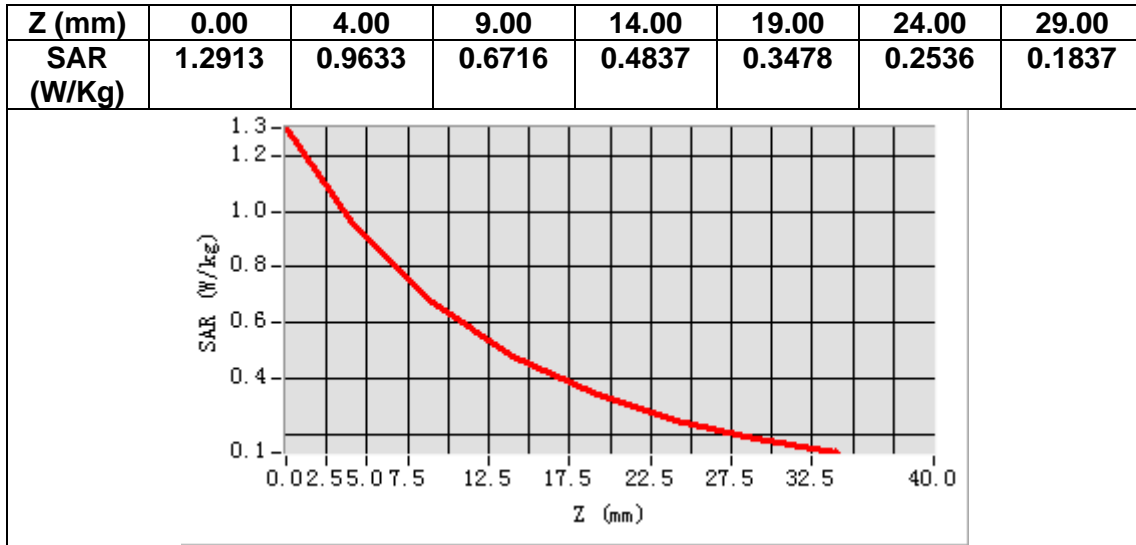
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.873162
Relative permittivity (imaginary part)	21.771263
Conductivity (S/m)	0.912262
Variation (%)	-3.810000



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

SAR 10g (W/Kg)	0.547218
SAR 1g (W/Kg)	0.854362



MEASUREMENT 2

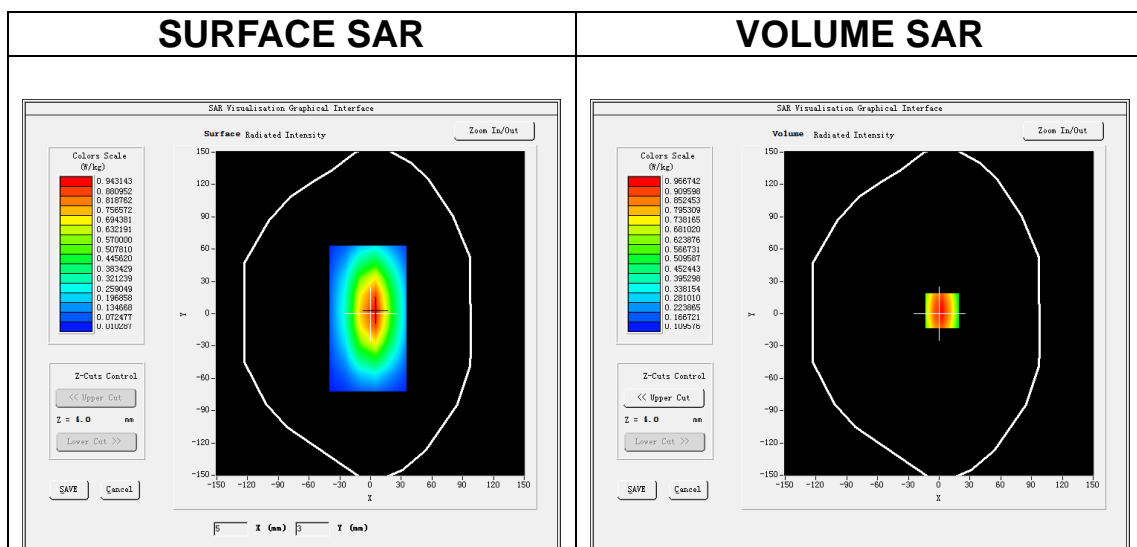
Date of measurement: 2/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

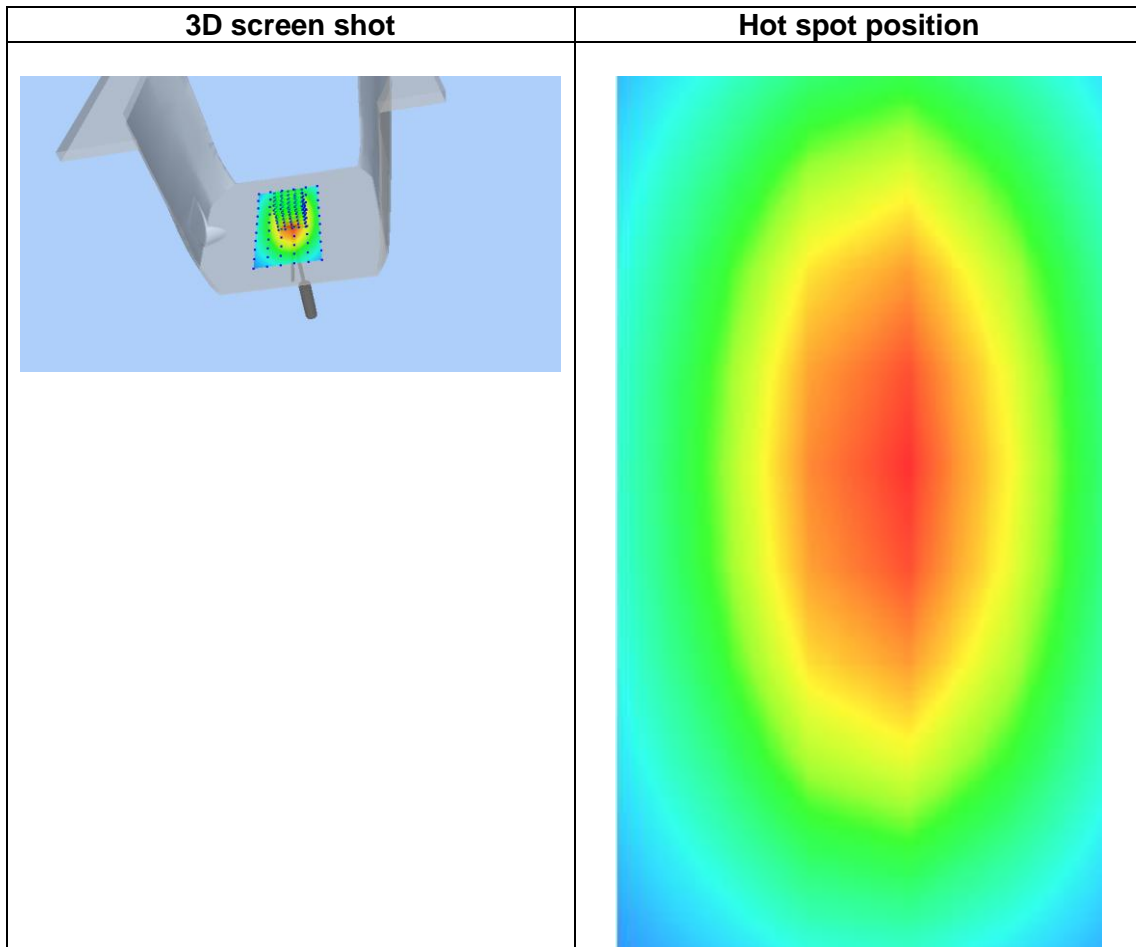
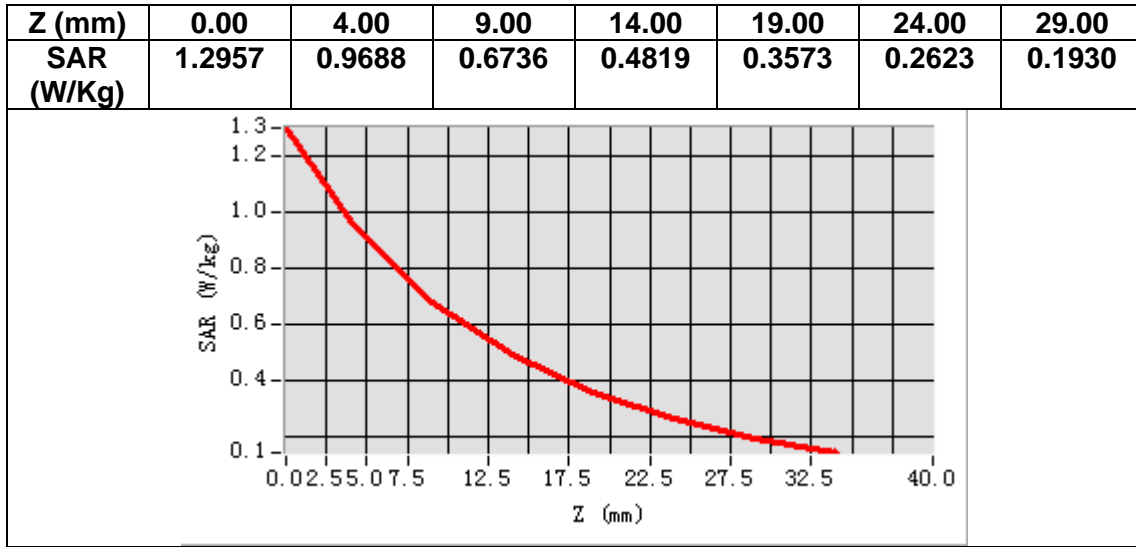
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Relative permittivity (imaginary part)	23.353842
Conductivity (S/m)	0.970318
Variation (%)	-1.490000



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.577281
SAR 1g (W/Kg)	0.827263



MEASUREMENT 3

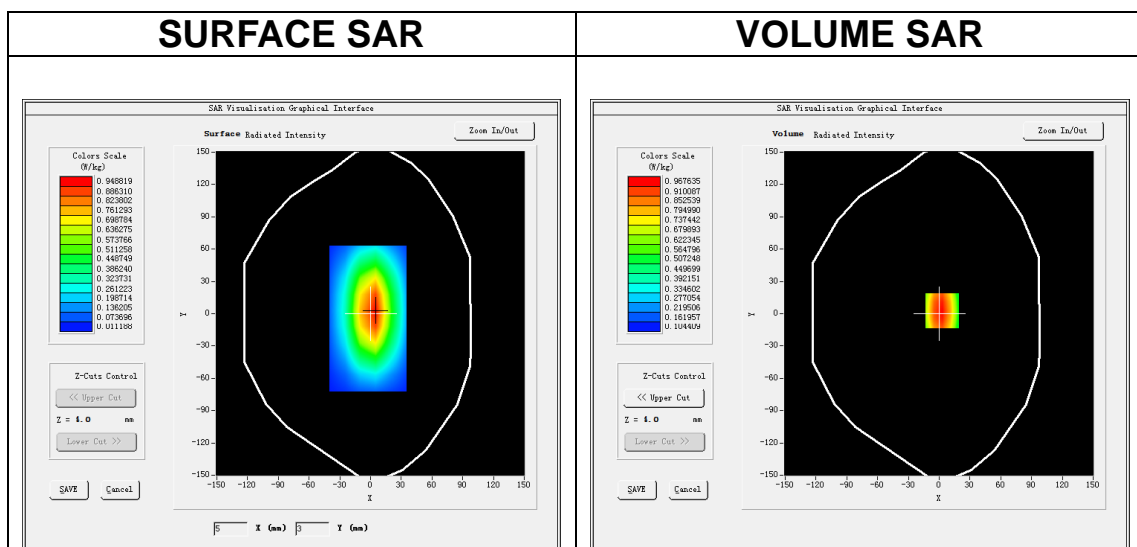
Date of measurement: 3/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

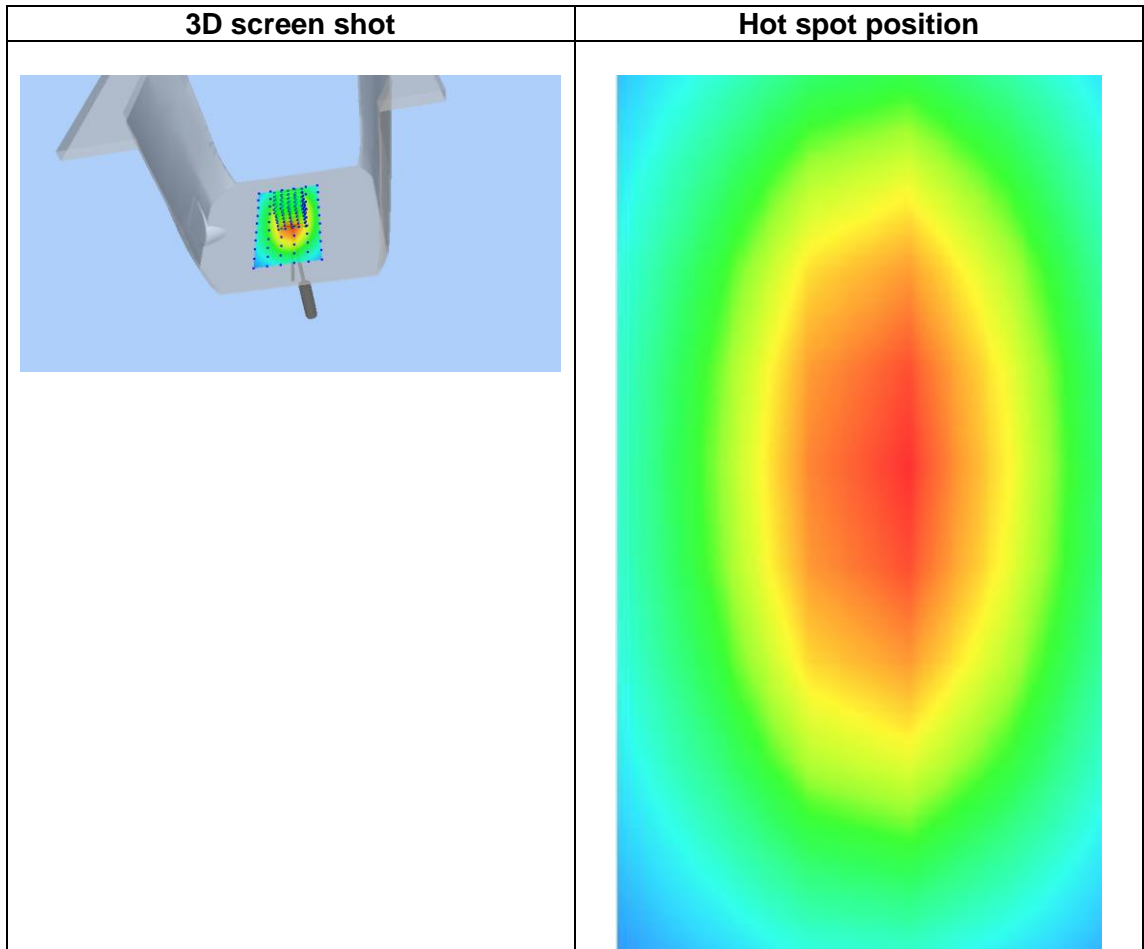
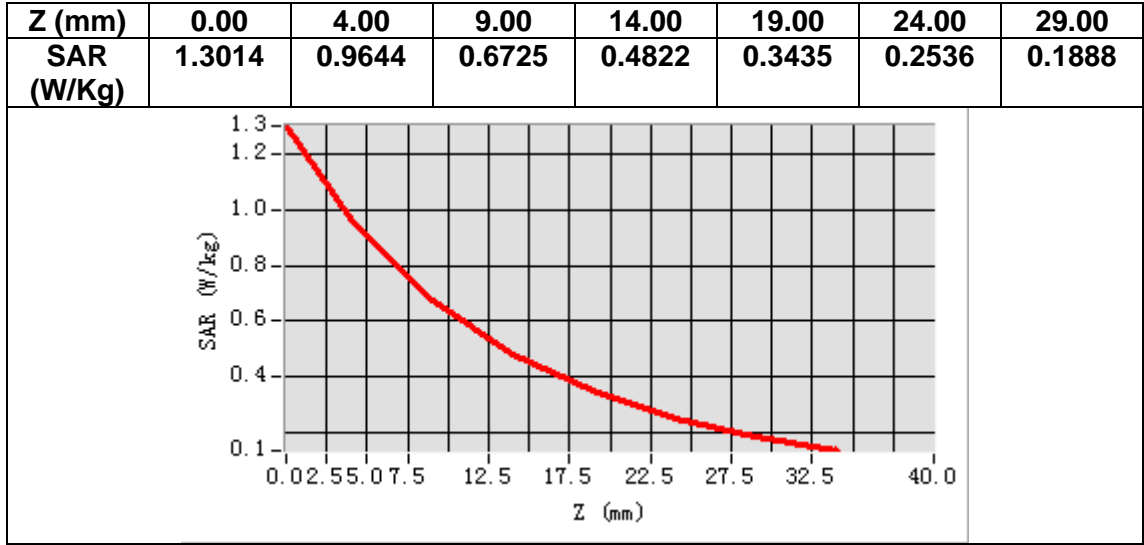
Frequency (MHz)	835.000000
Relative permittivity (real part)	40.933541
Relative permittivity (imaginary part)	19.880613
Conductivity (S/m)	0.920542
Variation (%)	2.190000



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.619466
SAR 1g (W/Kg)	0.980035



MEASUREMENT 4

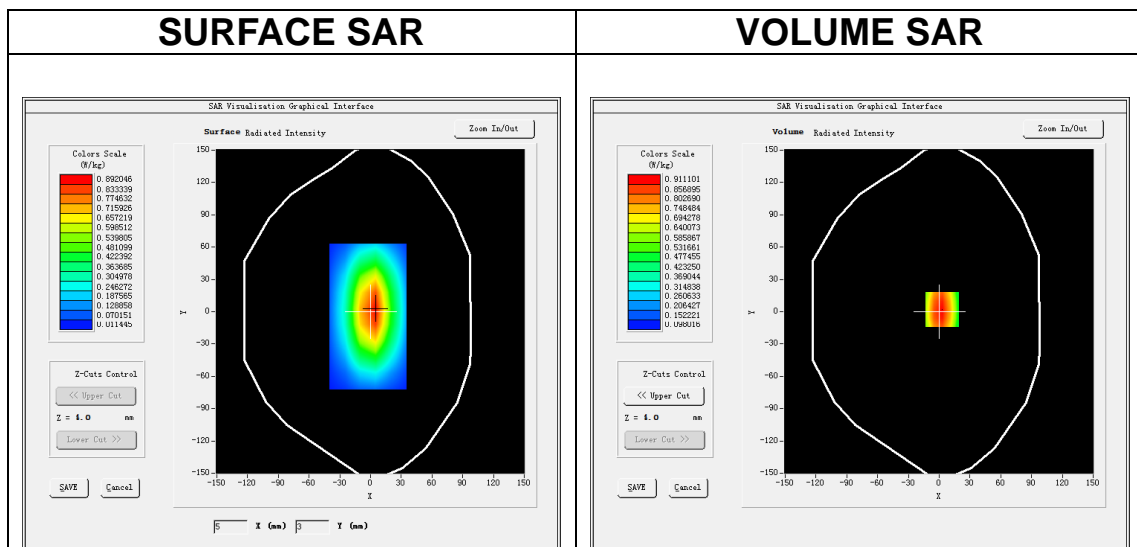
Date of measurement: 3/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

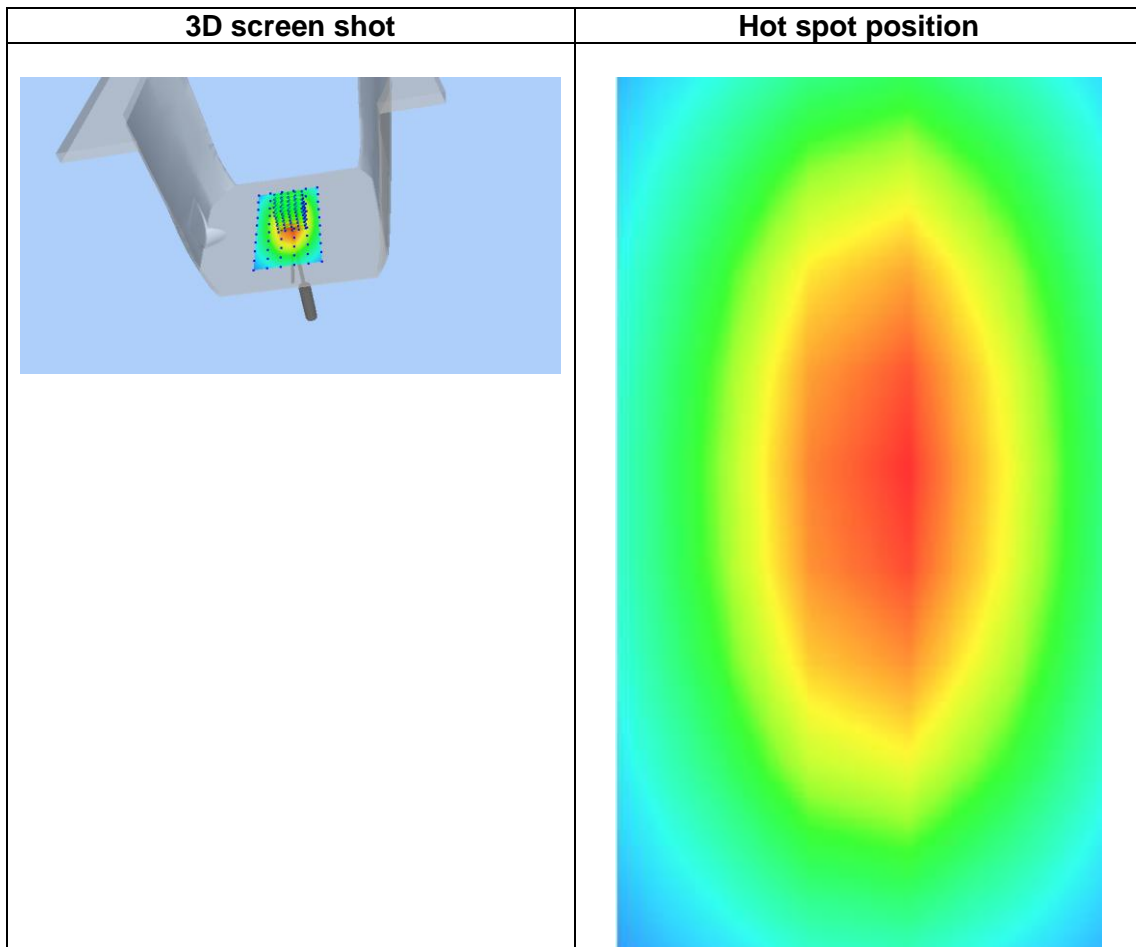
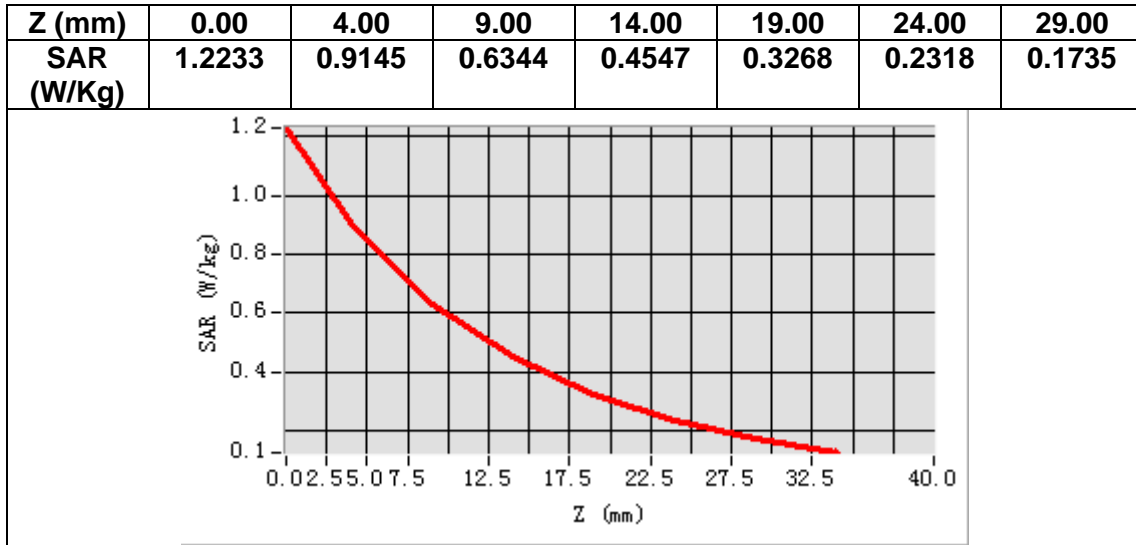
Frequency (MHz)	835.000000
Relative permittivity (real part)	54.661111
Relative permittivity (imaginary part)	21.123359
Conductivity (S/m)	0.981236
Variation (%)	-3.330000



Maximum location: X=3.00, Y=2.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.668123
SAR 1g (W/Kg)	0.965356



MEASUREMENT 5

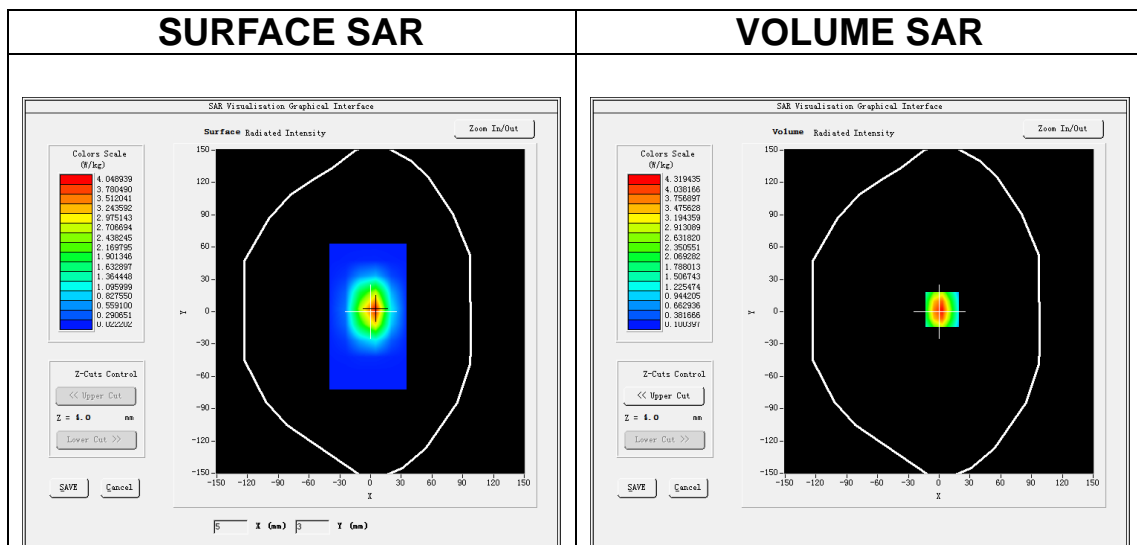
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

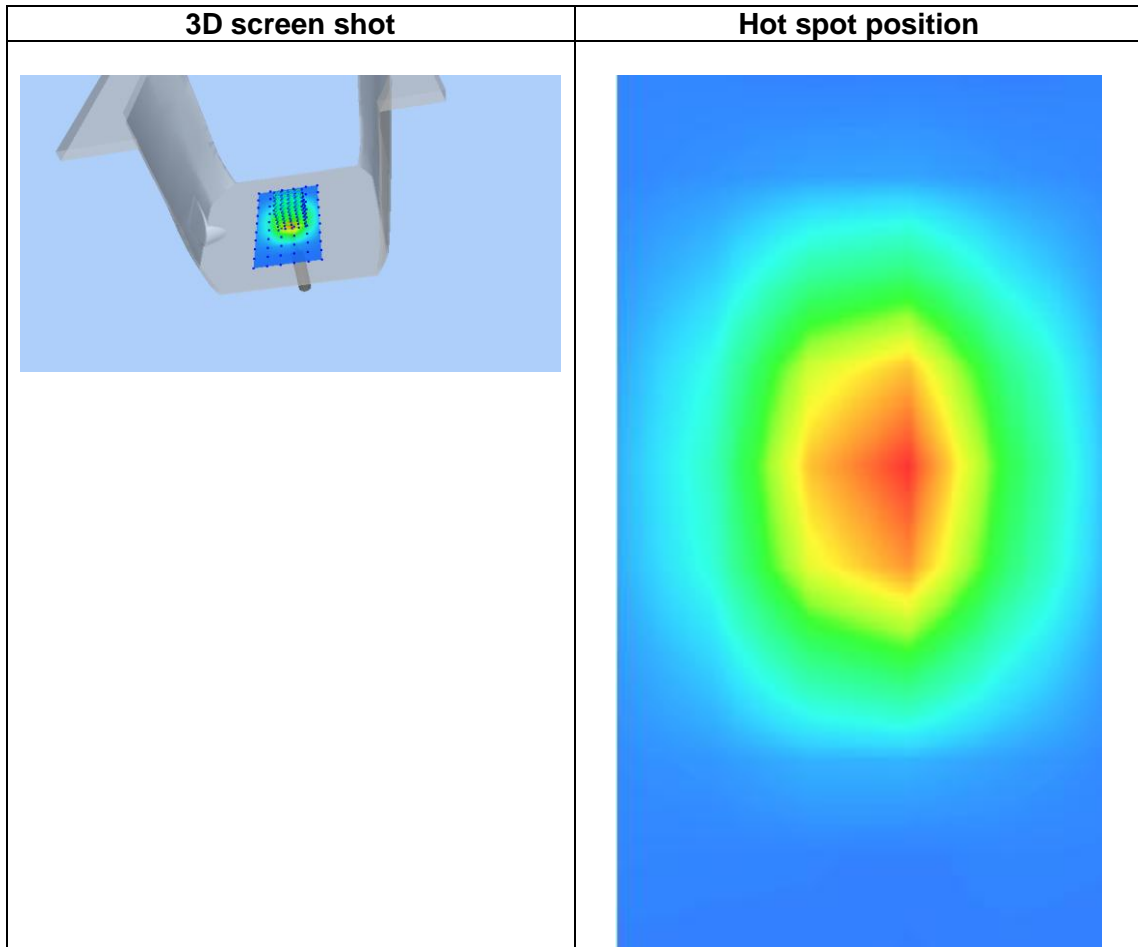
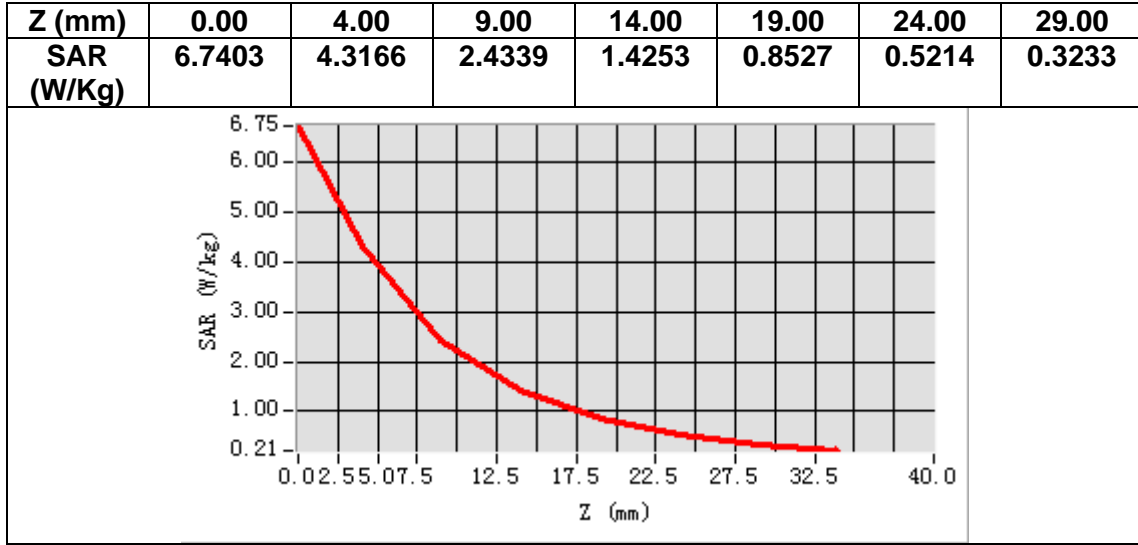
Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.791237
Relative permittivity (imaginary part)	13.733229
Conductivity (S/m)	1.372367
Variation (%)	-3.11000



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	1.927397
SAR 1g (W/Kg)	3.670451



MEASUREMENT 6

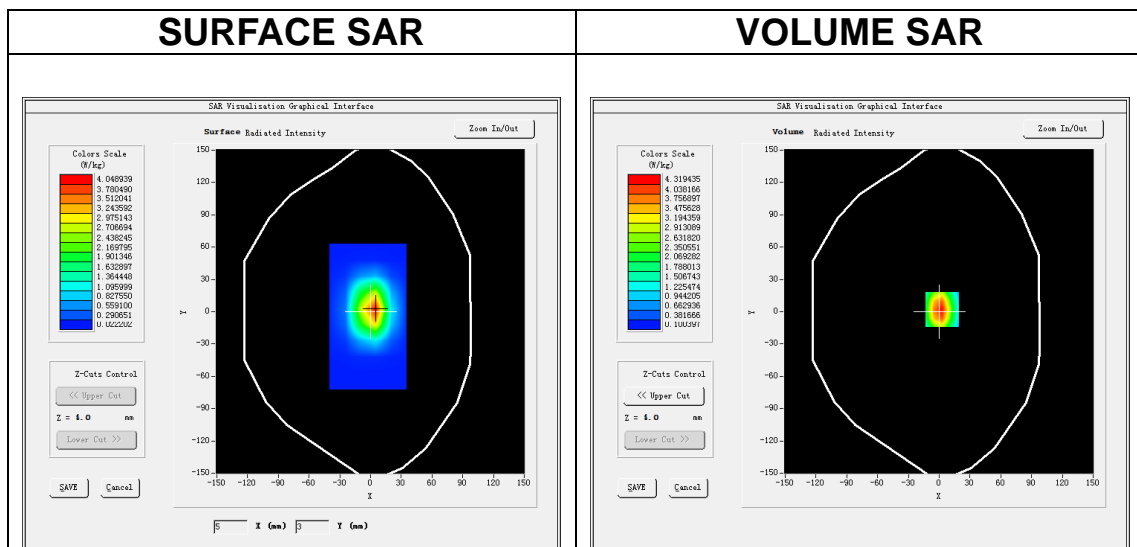
Date of measurement: 10/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

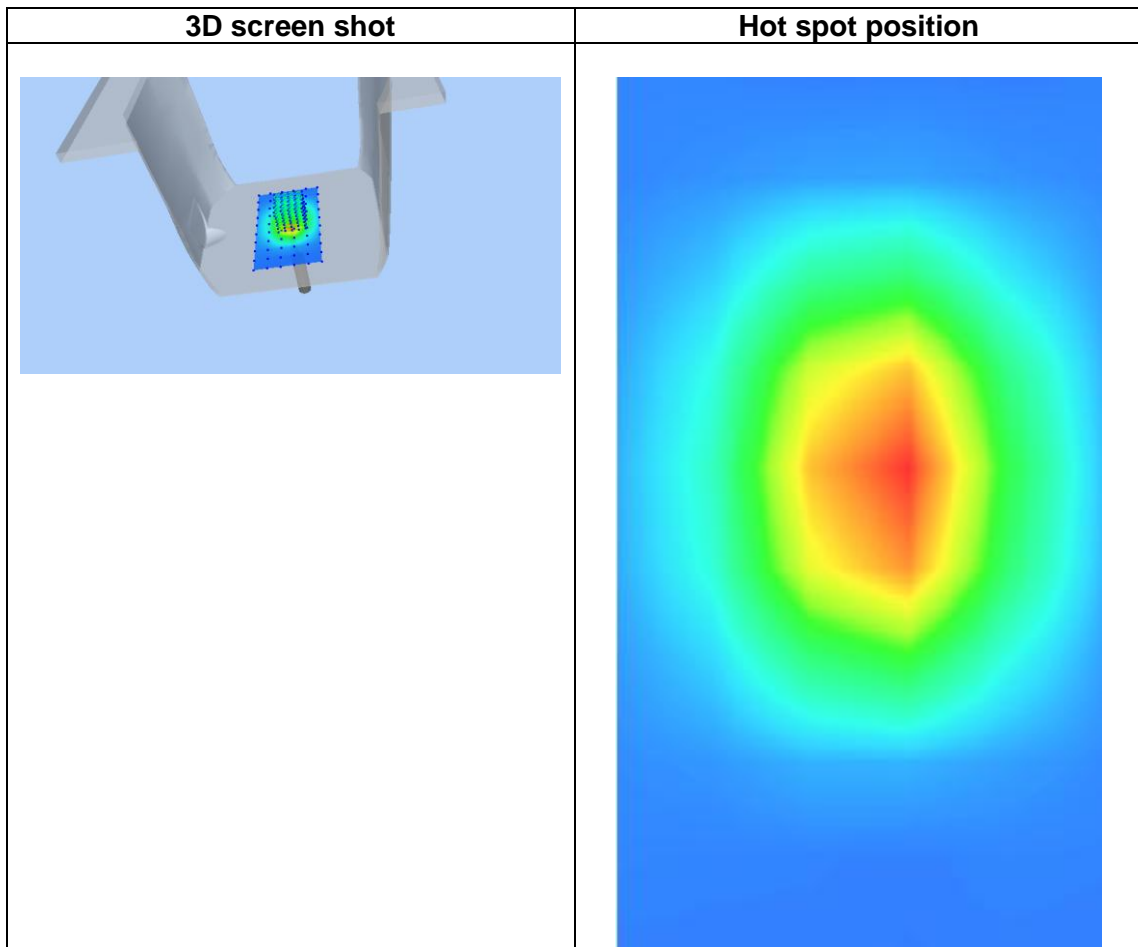
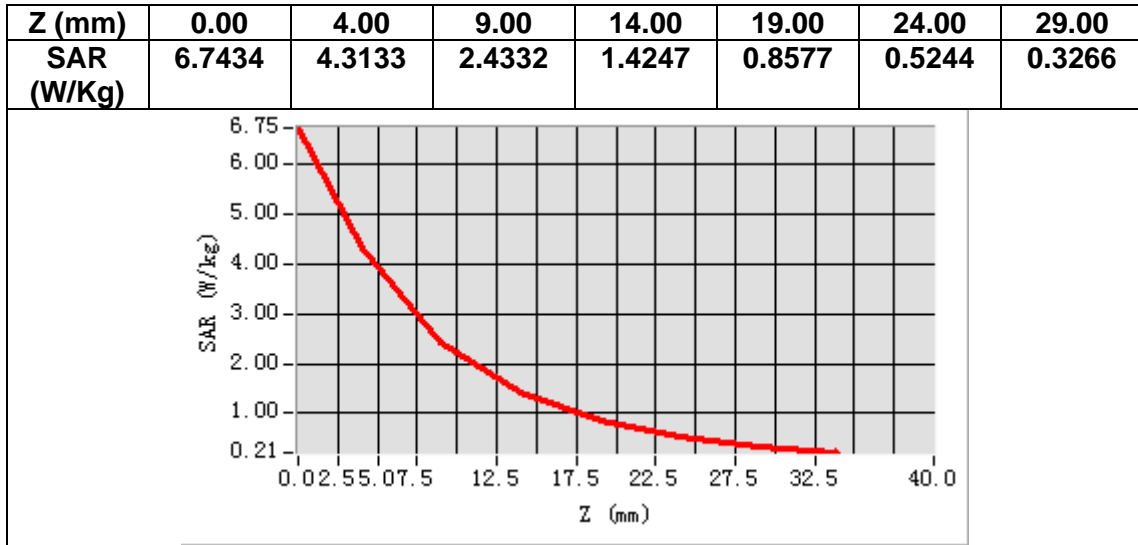
Frequency (MHz)	1800.000000
Relative permittivity (real part)	54.183510
Relative permittivity (imaginary part)	15.074016
Conductivity (S/m)	1.513096
Variation (%)	2.020000



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	2.046379
SAR 1g (W/Kg)	3.950268



MEASUREMENT 7

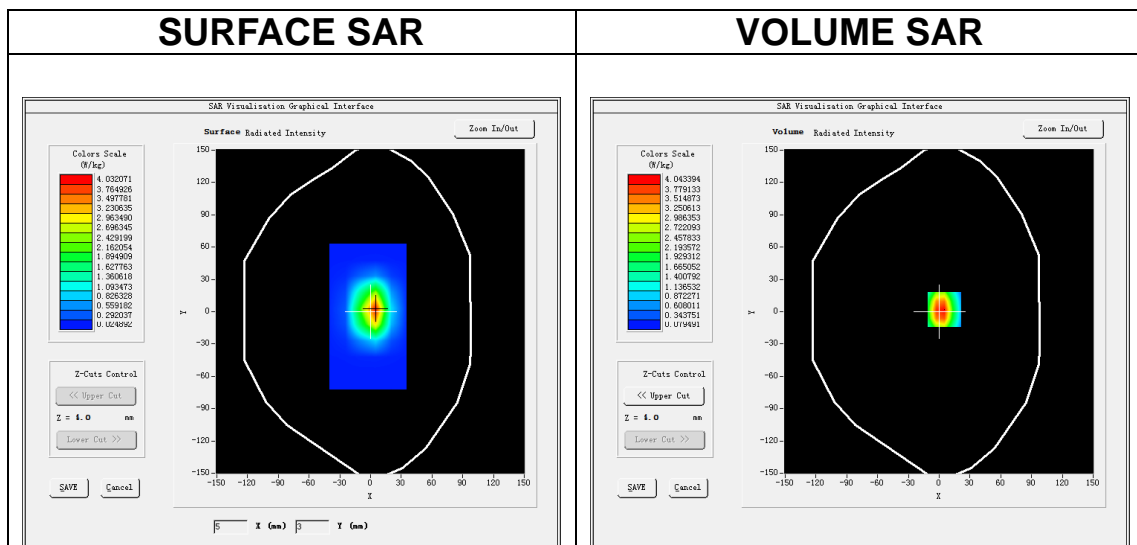
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

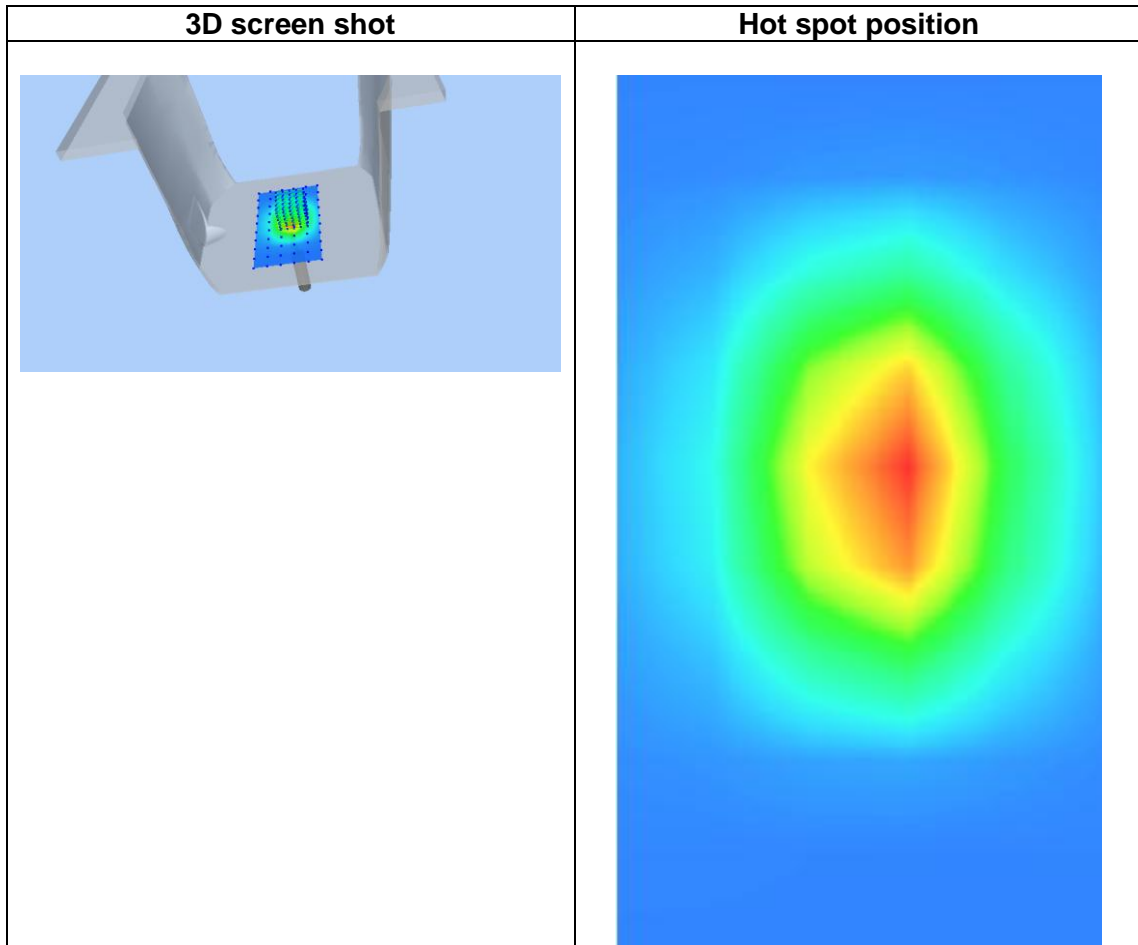
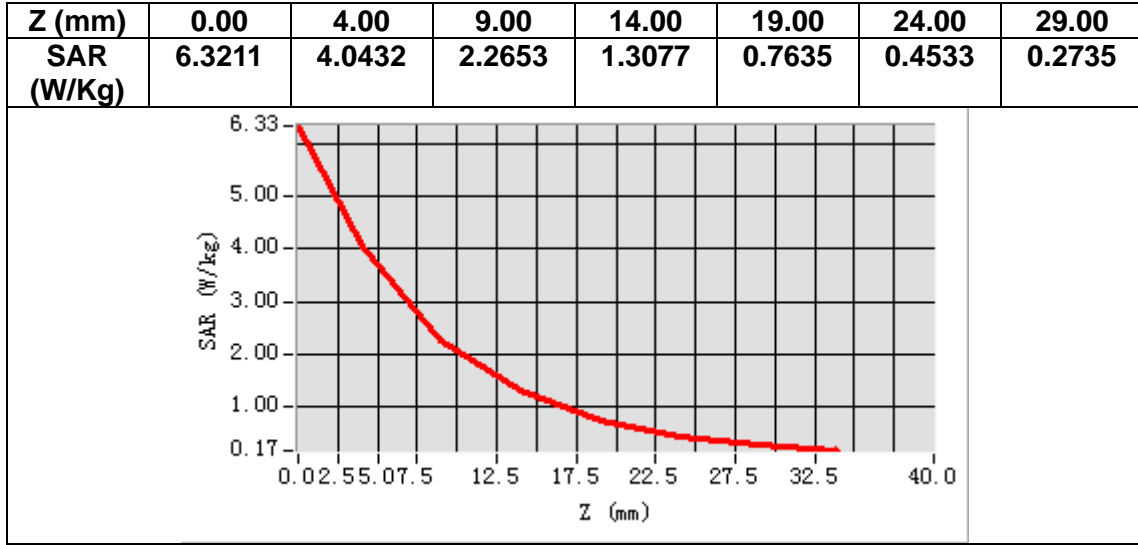
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.821287
Relative permittivity (imaginary part)	13.523008
Conductivity (S/m)	1.430336
Variation (%)	-1.430000



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	1.916456
SAR 1g (W/Kg)	3.949365



MEASUREMENT 8

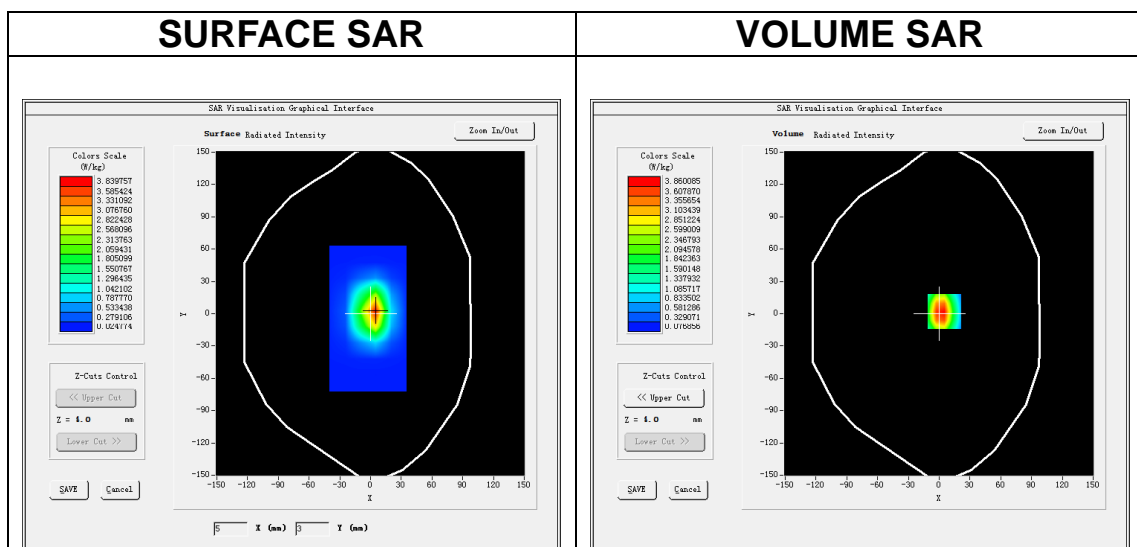
Date of measurement: 11/11/2020

A. Experimental conditions.

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

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

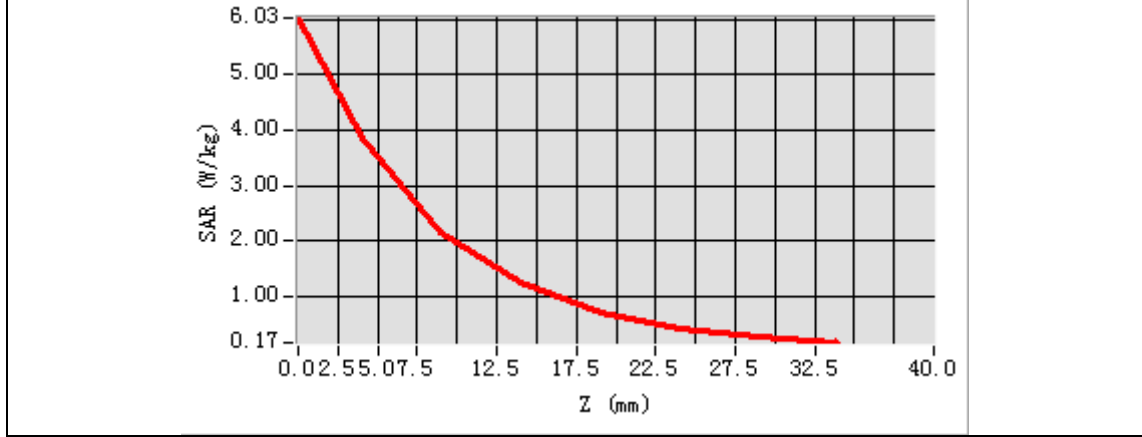


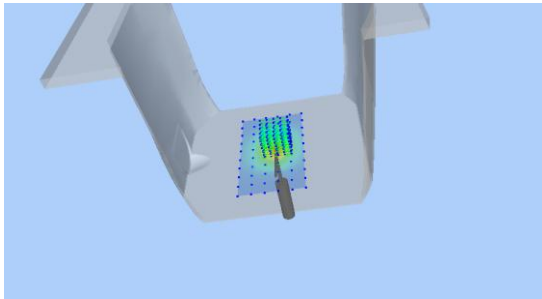
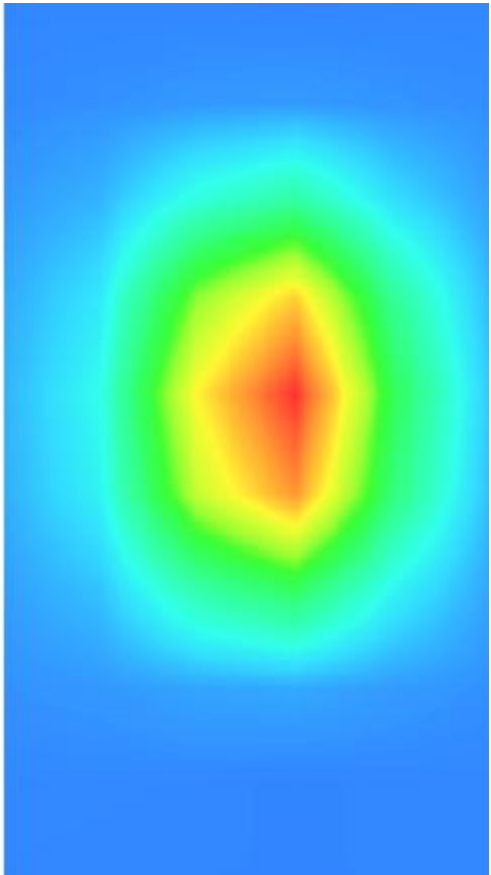
Maximum location: X=5.00, Y=2.00

SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	2.001329
SAR 1g (W/Kg)	3.805402

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.0345	3.8665	2.1619	1.2445	0.7255	0.4326	0.2634



3D screen shot	Hot spot position
	

MEASUREMENT 9

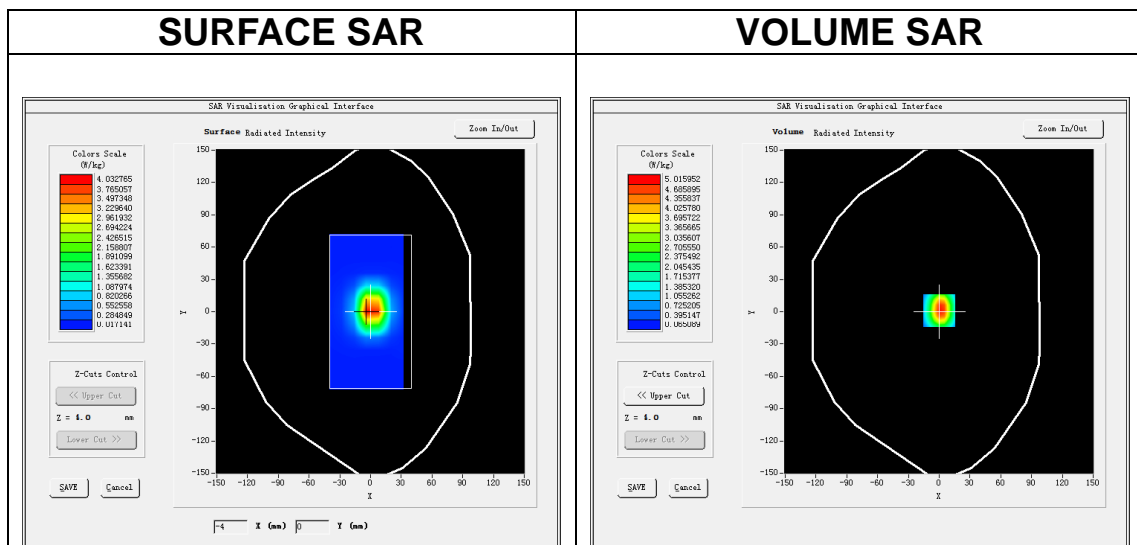
Date of measurement: 12/11/2020

A. Experimental conditions.

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

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

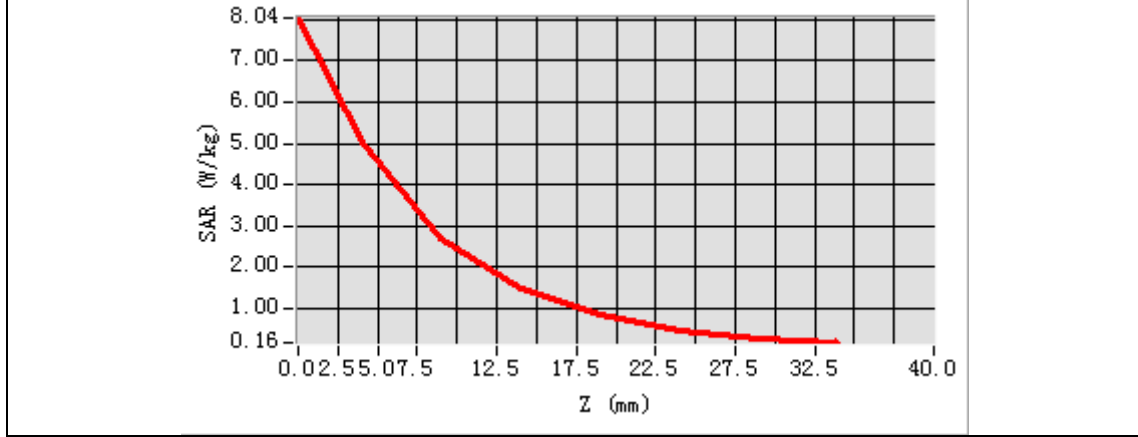


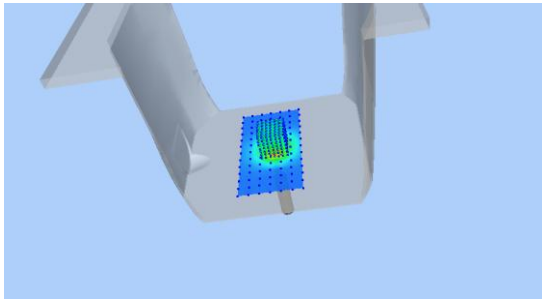
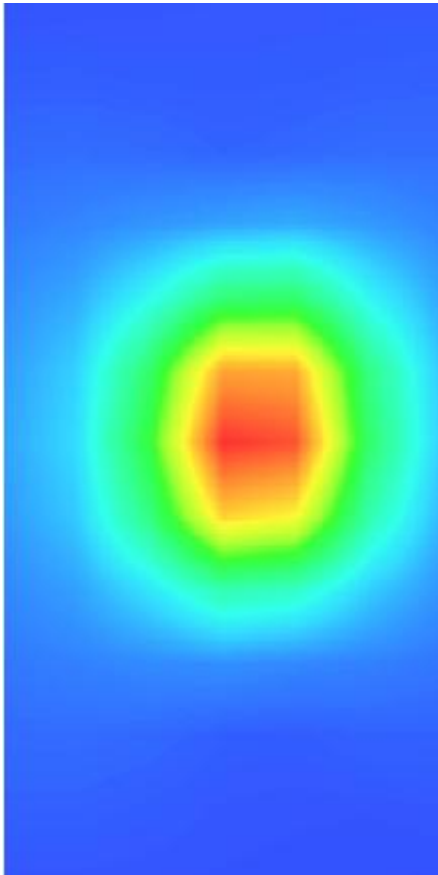
Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

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

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.0342	5.0144	2.6935	1.4866	0.8365	0.4635	0.2617



3D screen shot	Hot spot position
	

MEASUREMENT 10

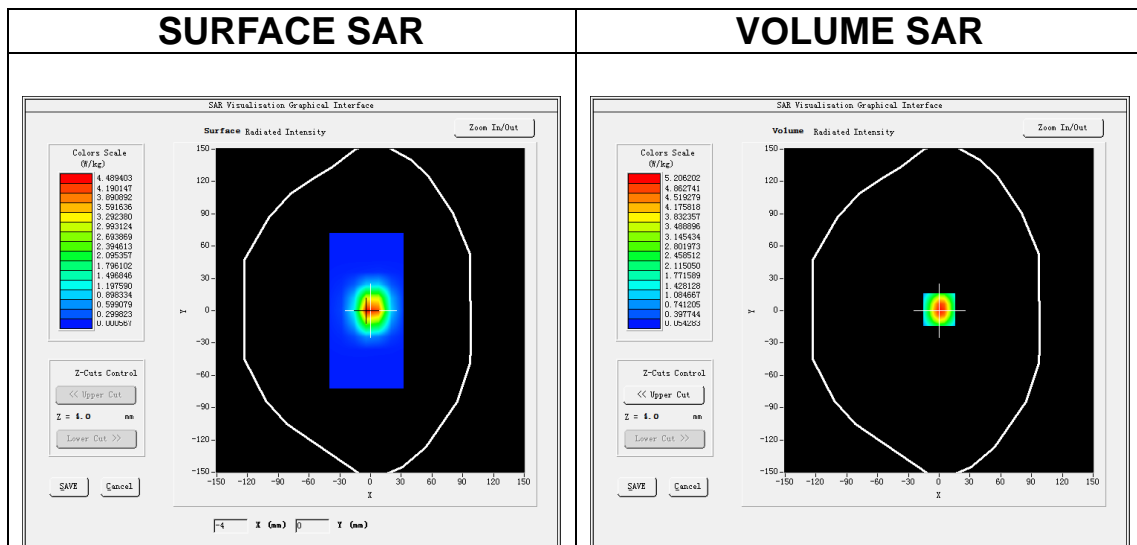
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

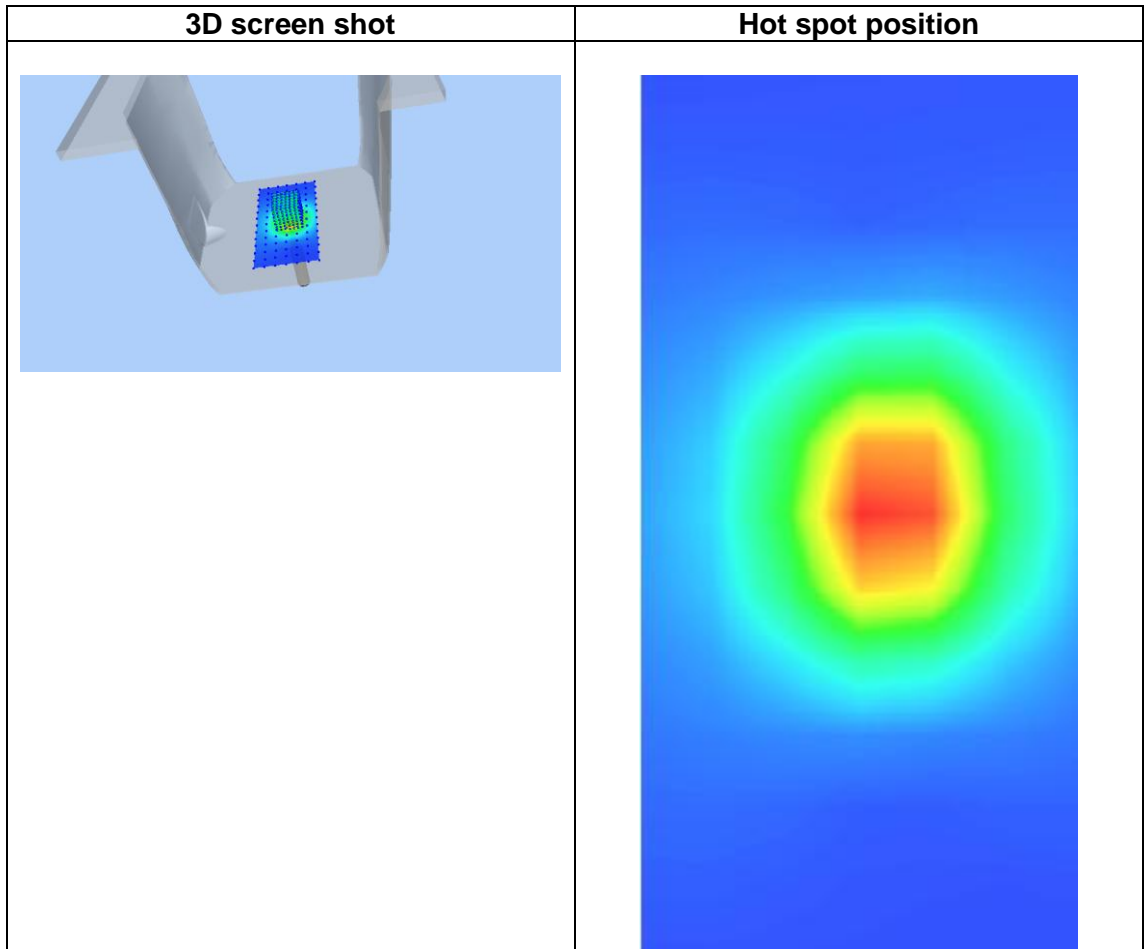
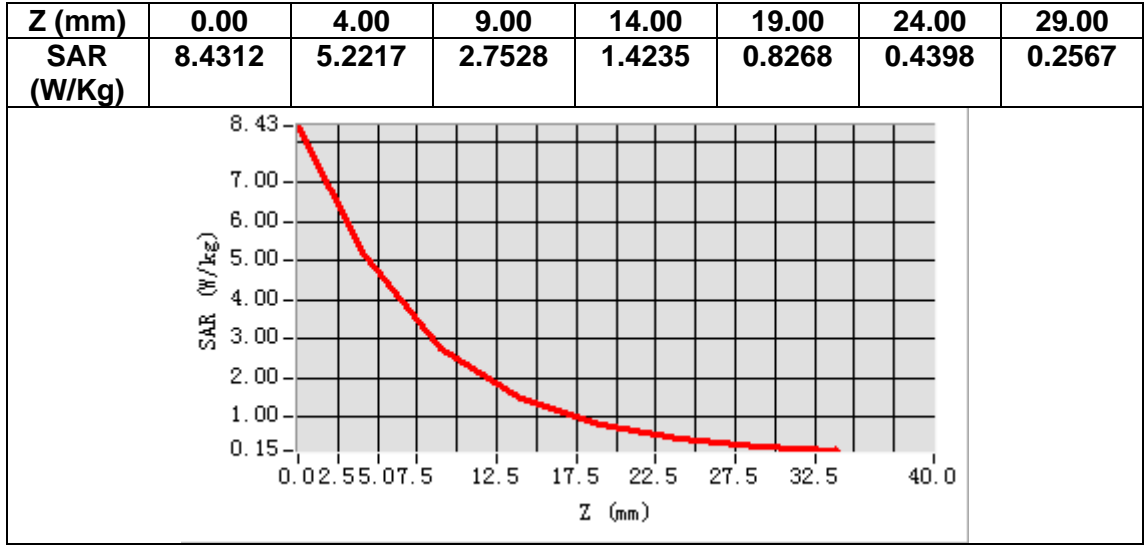
Frequency (MHz)	2450.000000
Relative permittivity (real part)	51.671497
Relative permittivity (imaginary part)	13.793566
Conductivity (S/m)	1.882816
Variation (%)	1.420000



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

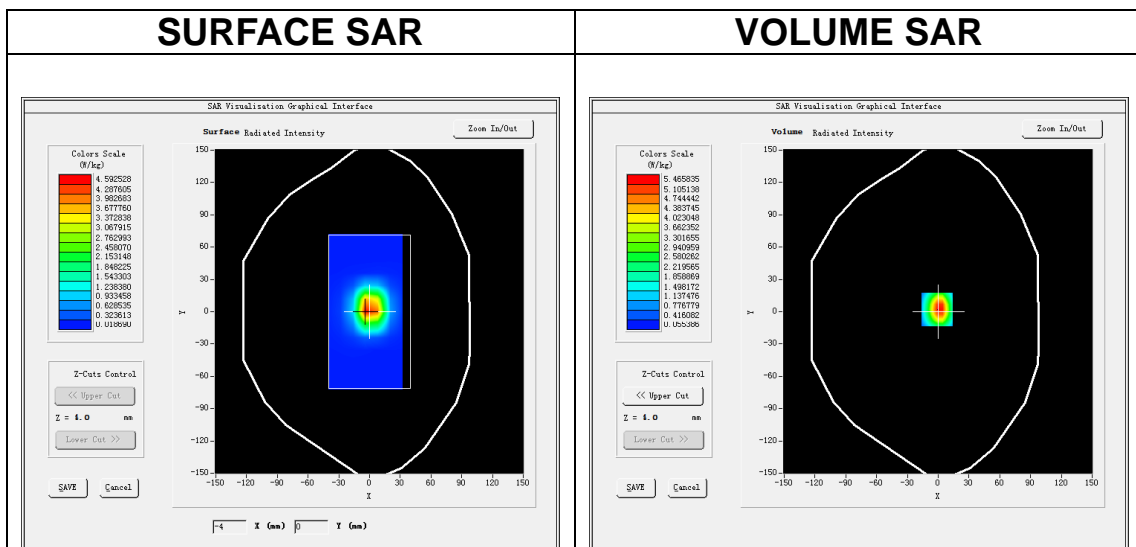
Date of measurement: 5/11/2020

A. Experimental conditions.

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

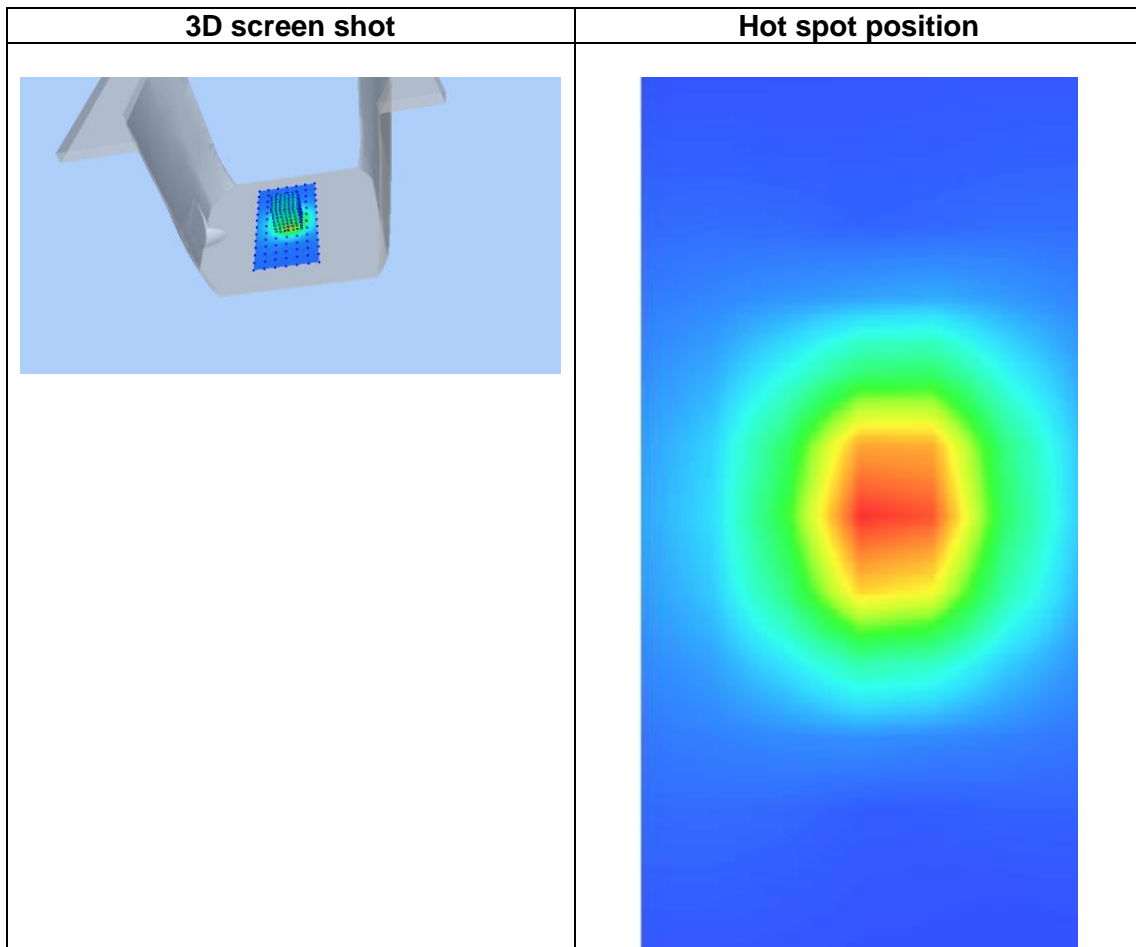
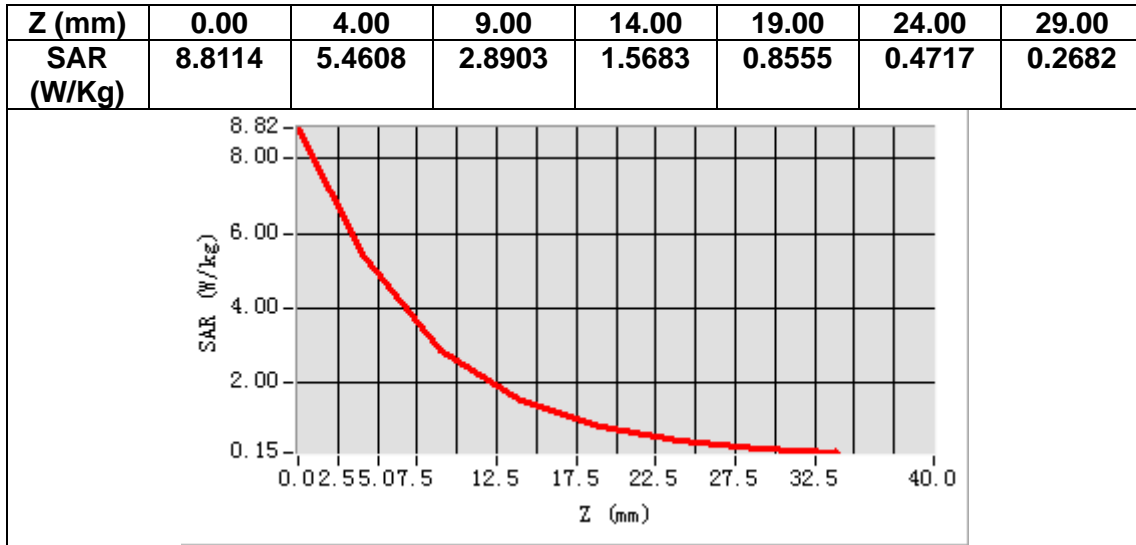
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.262638
Relative permittivity (imaginary part)	13.933997
Conductivity (S/m)	2.013631
Variation (%)	-1.040000



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

SAR 10g (W/Kg)	2.446205
SAR 1g (W/Kg)	5.300267



MEASUREMENT 12

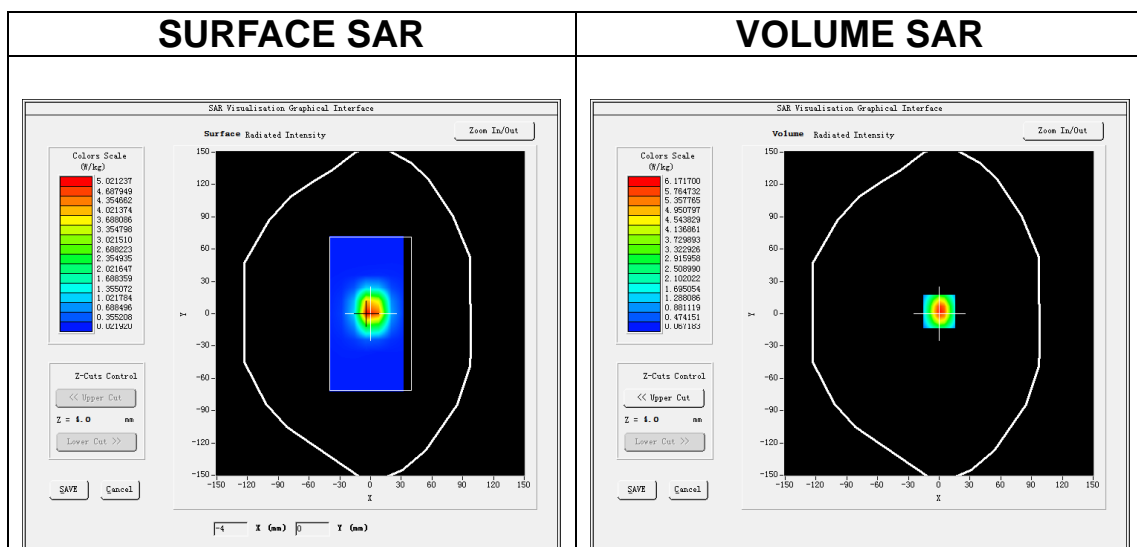
Date of measurement: 7/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

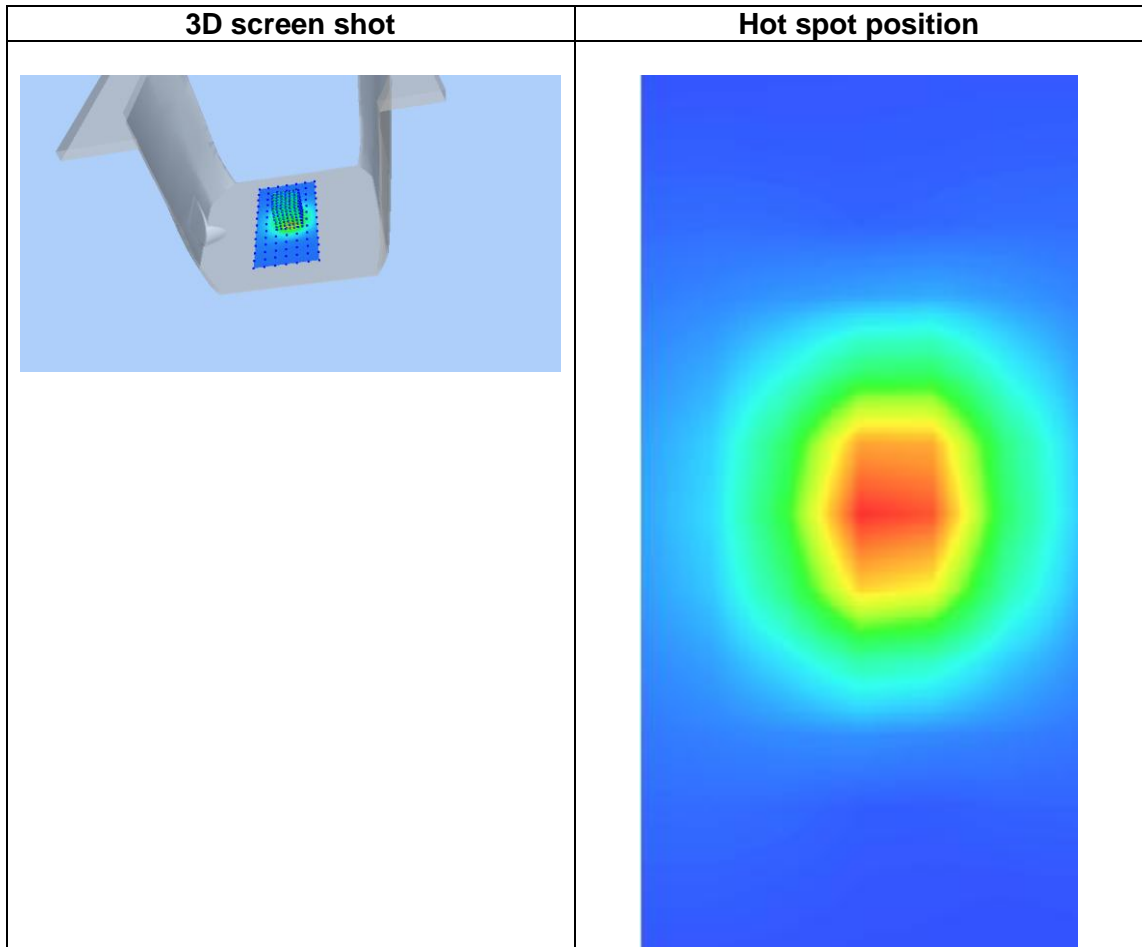
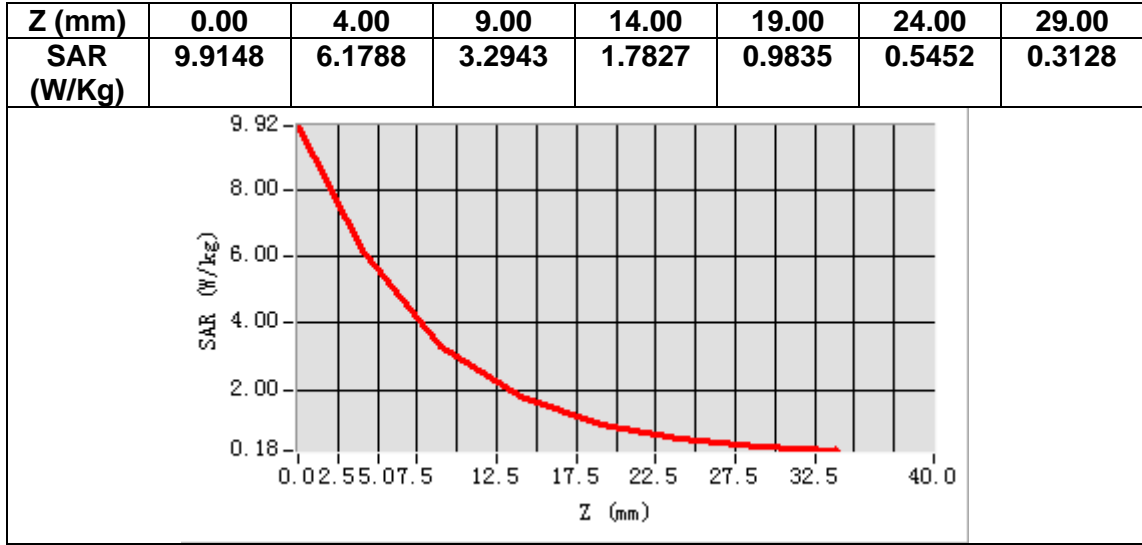
Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.912866
Relative permittivity (imaginary part)	15.310101
Conductivity (S/m)	2.213465
Variation (%)	-1.220000



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

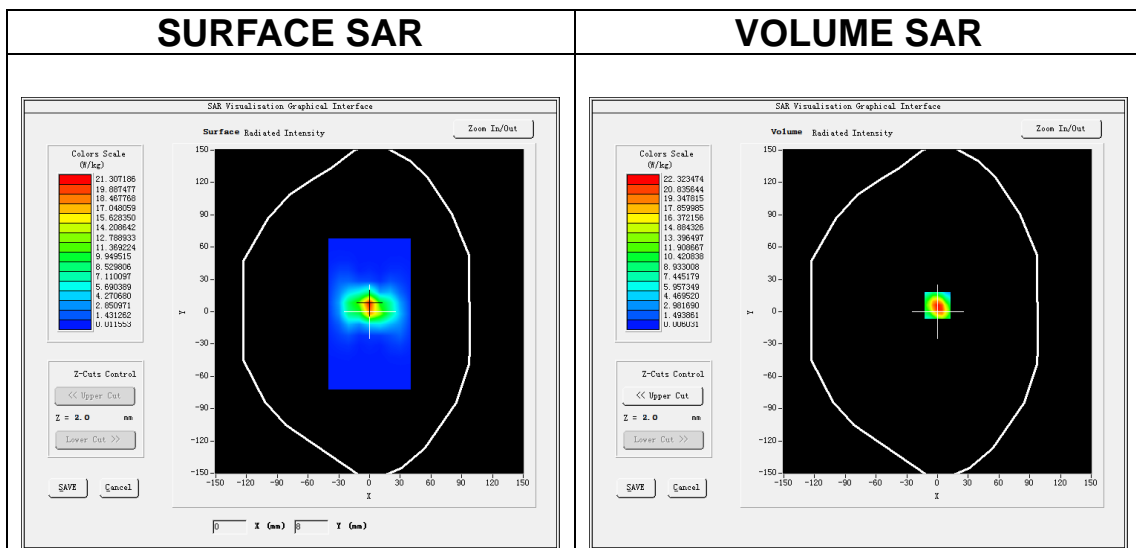
Date of measurement: 6/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.759981
Relative permittivity (imaginary part)	16.021619
Conductivity (S/m)	4.628468
Variation (%)	1.660000

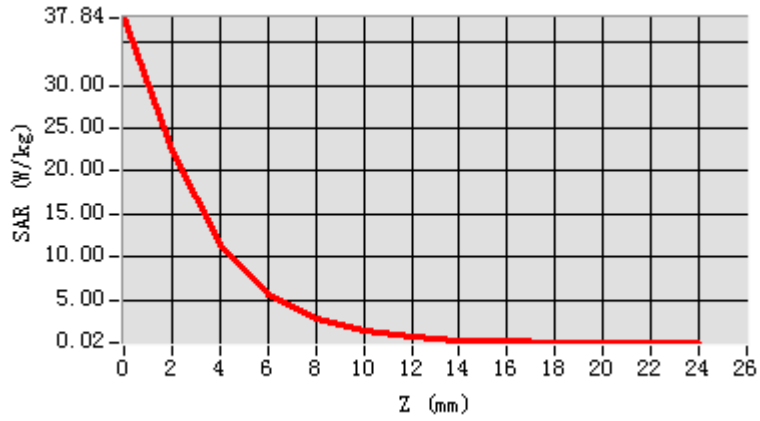


Maximum location: X=0.00, Y=6.00

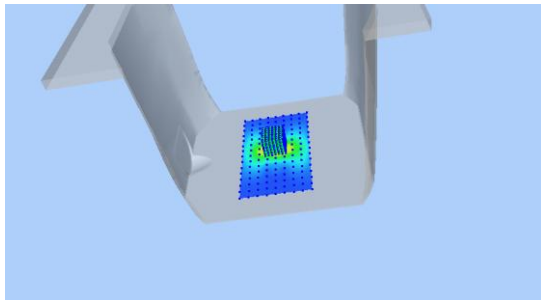
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.457095
SAR 1g (W/Kg)	15.855221

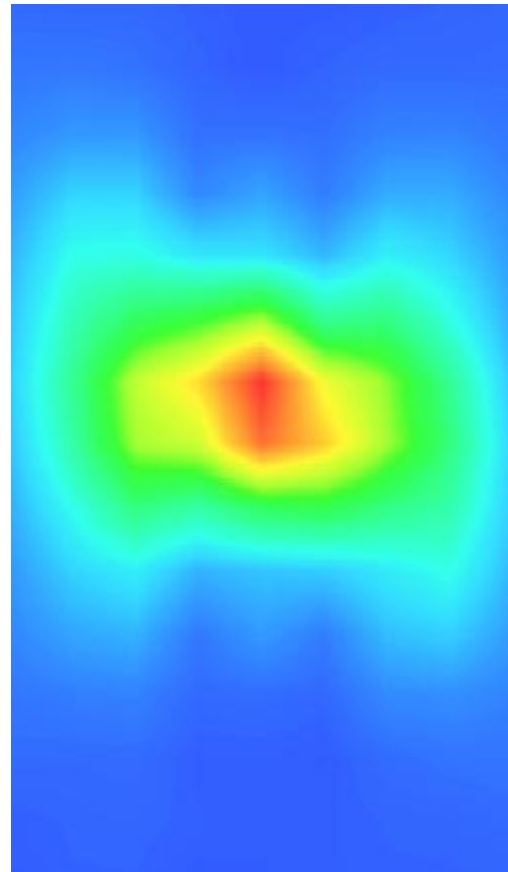
Z (m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	37.8356	22.3278	11.3730	5.6618	2.8255	1.4093	0.7124	0.3660	0.1808	0.1012	0.0513	0.0323



3D screen shot



Hot spot position



MEASUREMENT 14

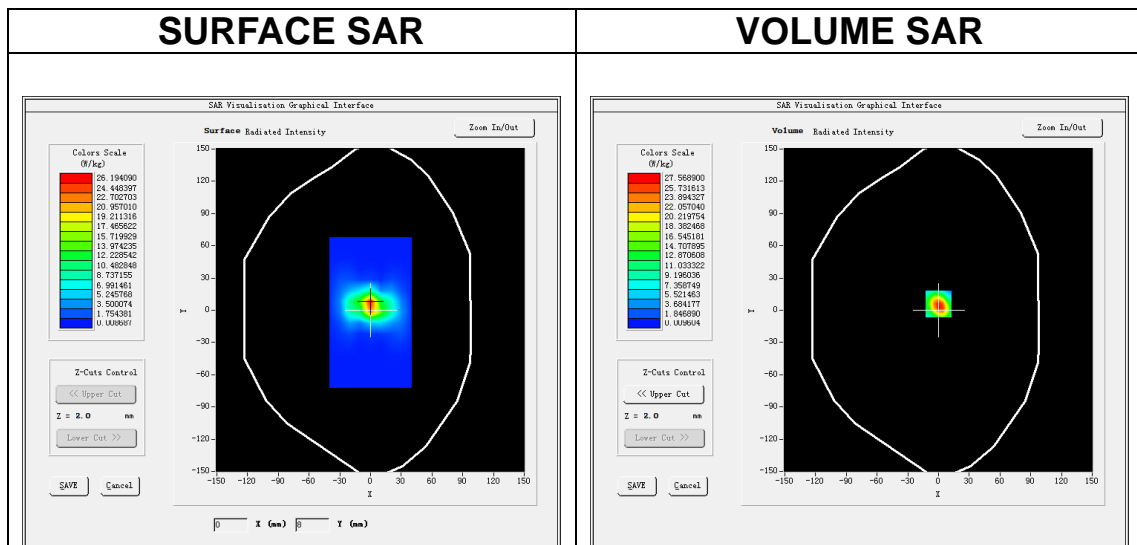
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.770639
Relative permittivity (imaginary part)	18.150510
Conductivity (S/m)	5.244258
Variation (%)	4.490000

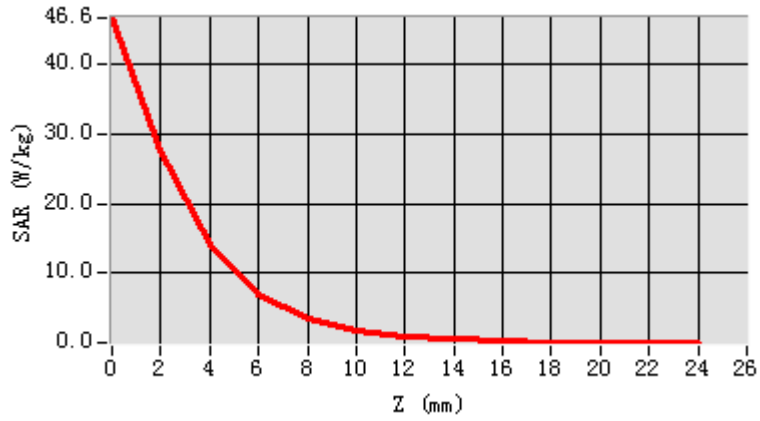


Maximum location: X=0.00, Y=6.00

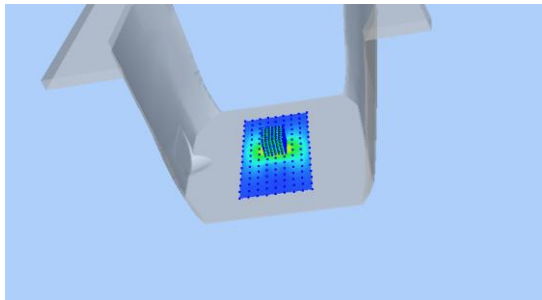
SAR Peak: 49.61 W/kg

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

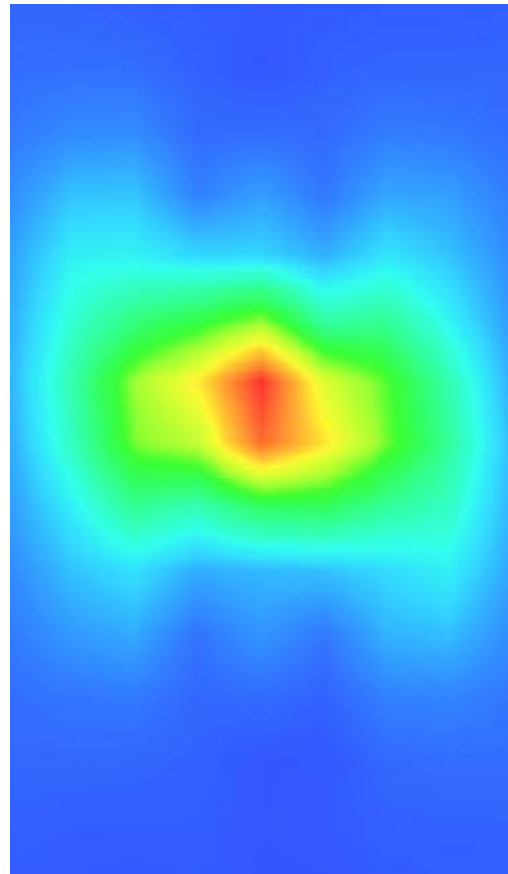
Z (m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	46.6150	27.5644	14.0668	7.0591	3.5928	1.7802	0.8938	0.4670	0.2475	0.1353	0.0650	0.0400



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

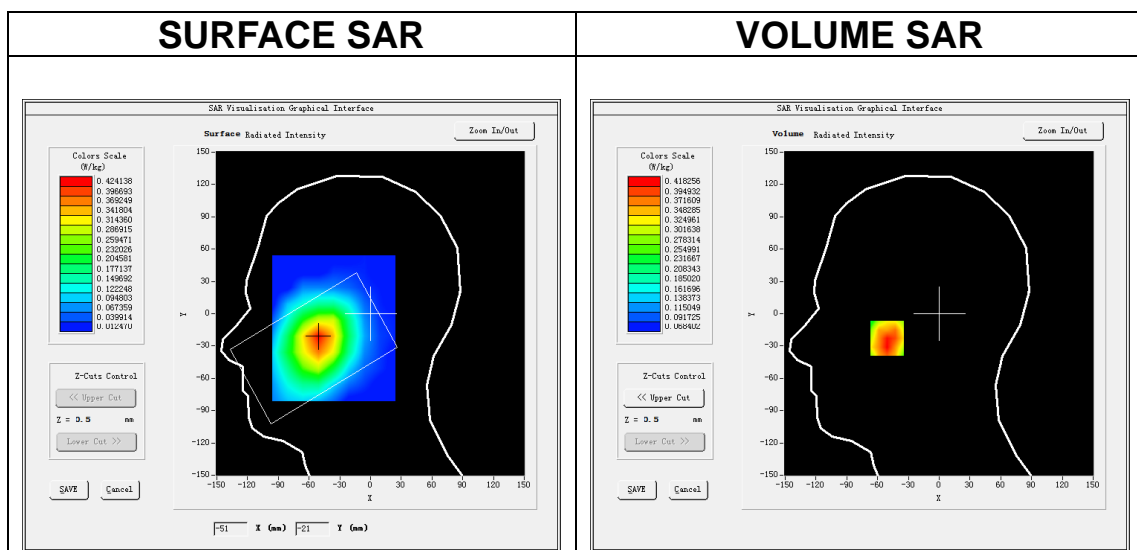
Date of measurement: 3/11/2020

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 4.0)</u>

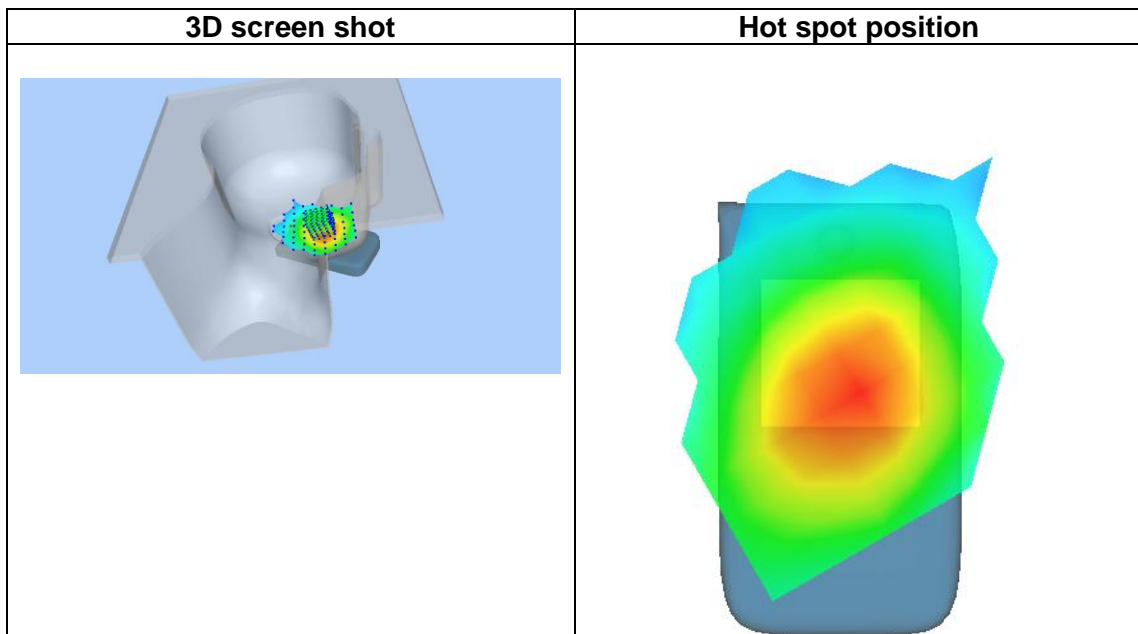
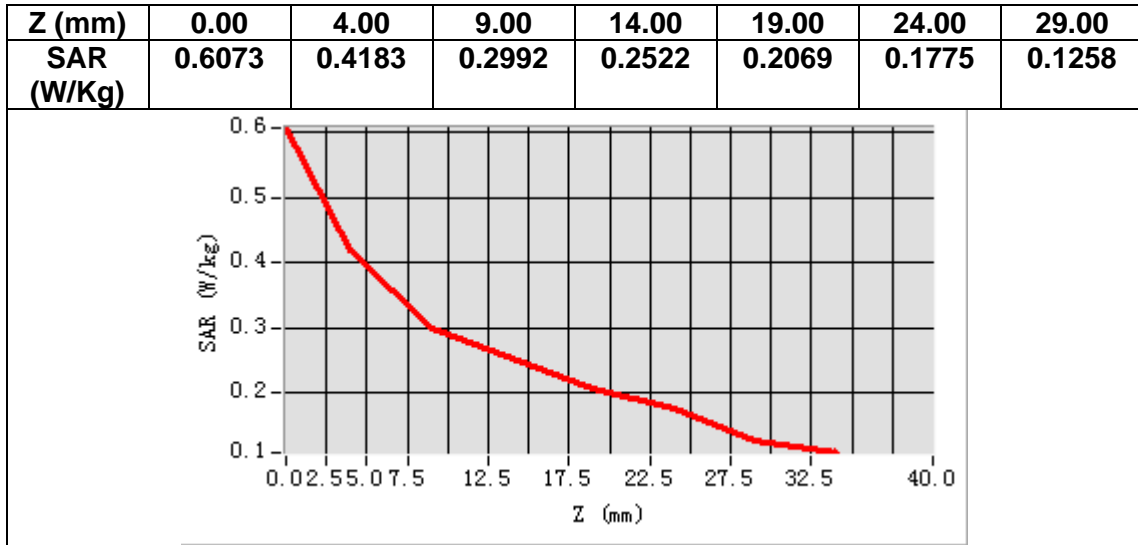
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	40.840961
Relative permittivity (imaginary part)	19.901541
Conductivity (S/m)	0.924758
Variation (%)	-0.690000



Maximum location: X=-51.00, Y=-23.00
SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.303724
SAR 1g (W/Kg)	0.419270



MEASUREMENT 2

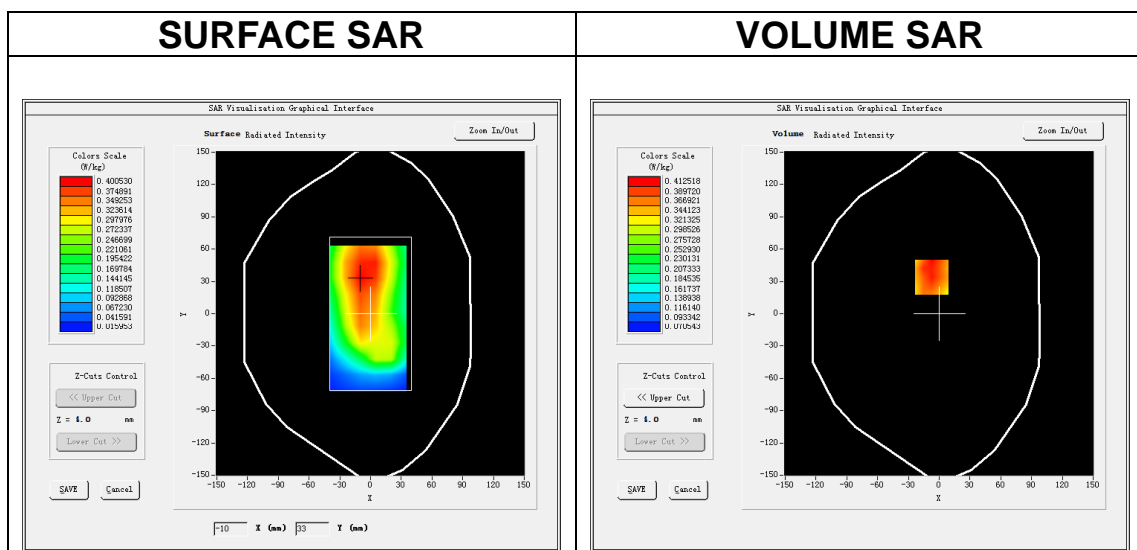
Date of measurement: 3/11/2020

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 4.0)</u>

B. SAR Measurement Results

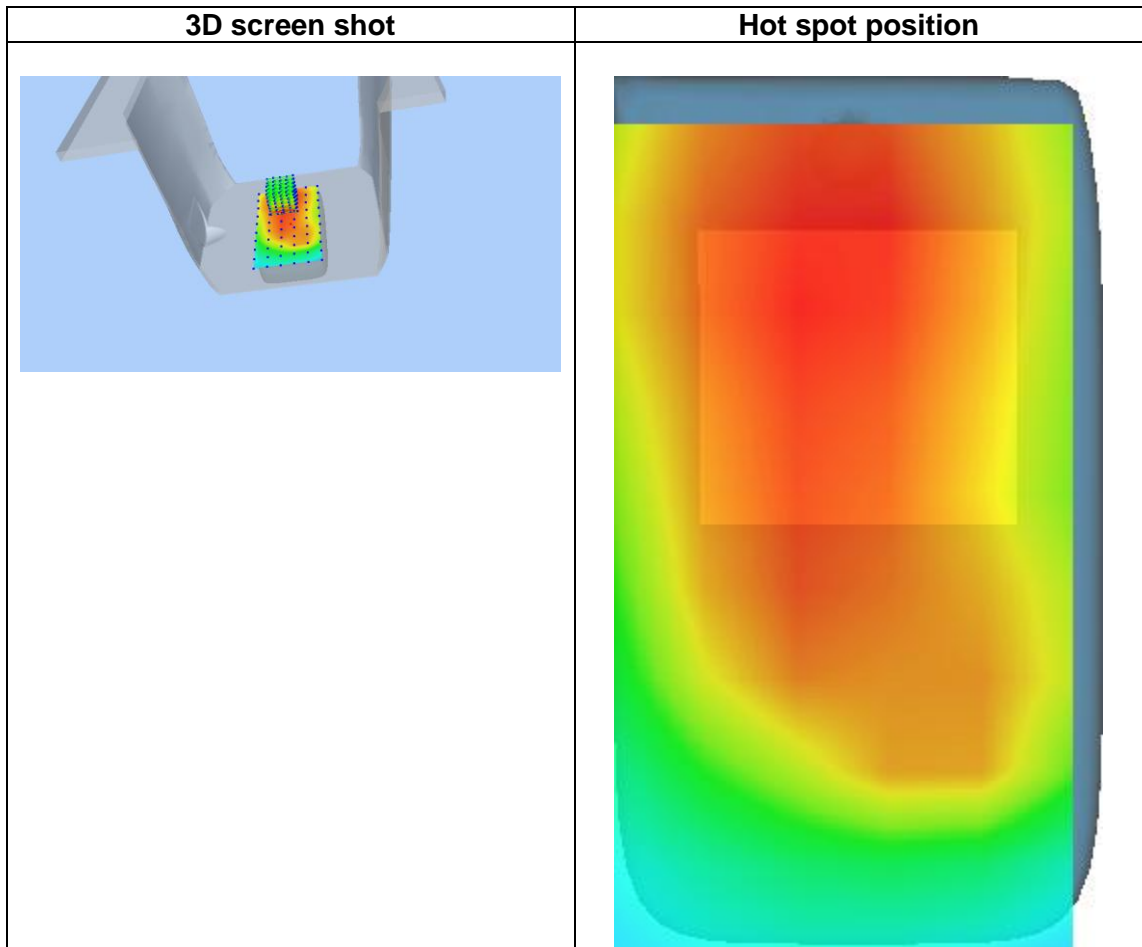
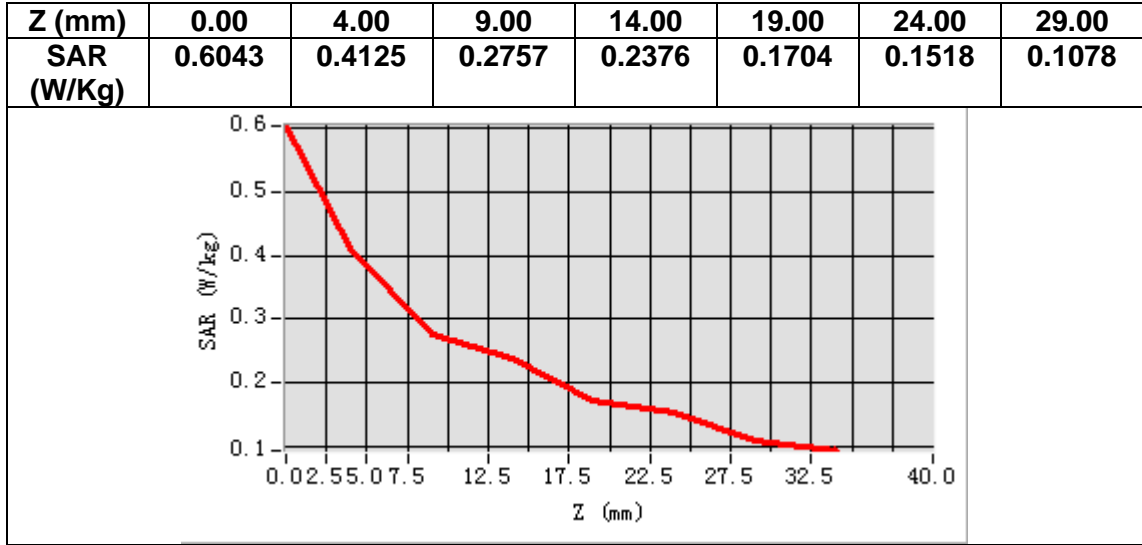
Frequency (MHz)	836.400000
Relative permittivity (real part)	54.669579
Relative permittivity (imaginary part)	21.102739
Conductivity (S/m)	0.980574
Variation (%)	-2.100000



Maximum location: X=-7.00, Y=34.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.294108
SAR 1g (W/Kg)	0.400820



MEASUREMENT 3

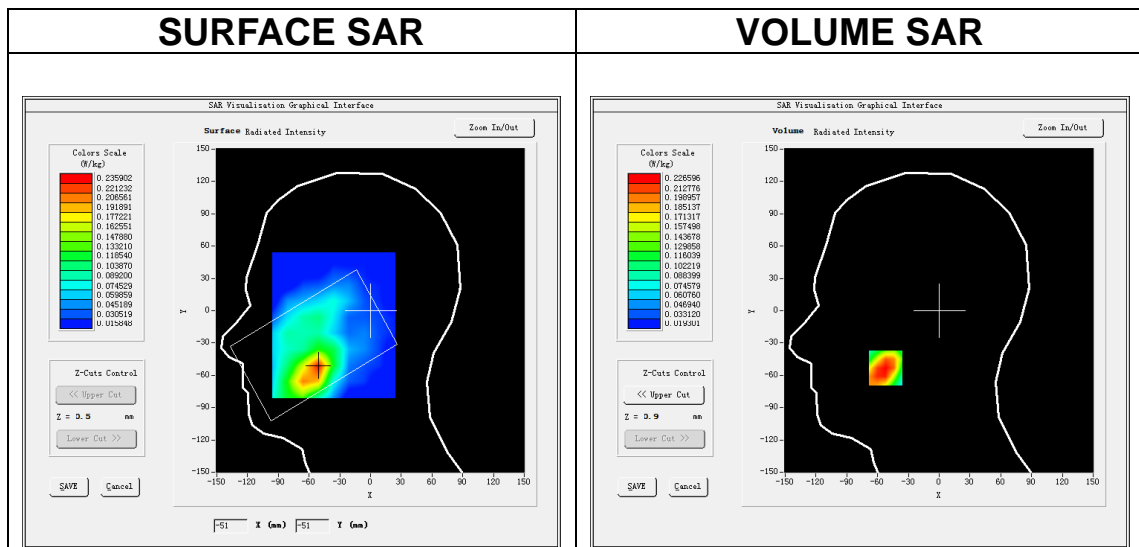
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

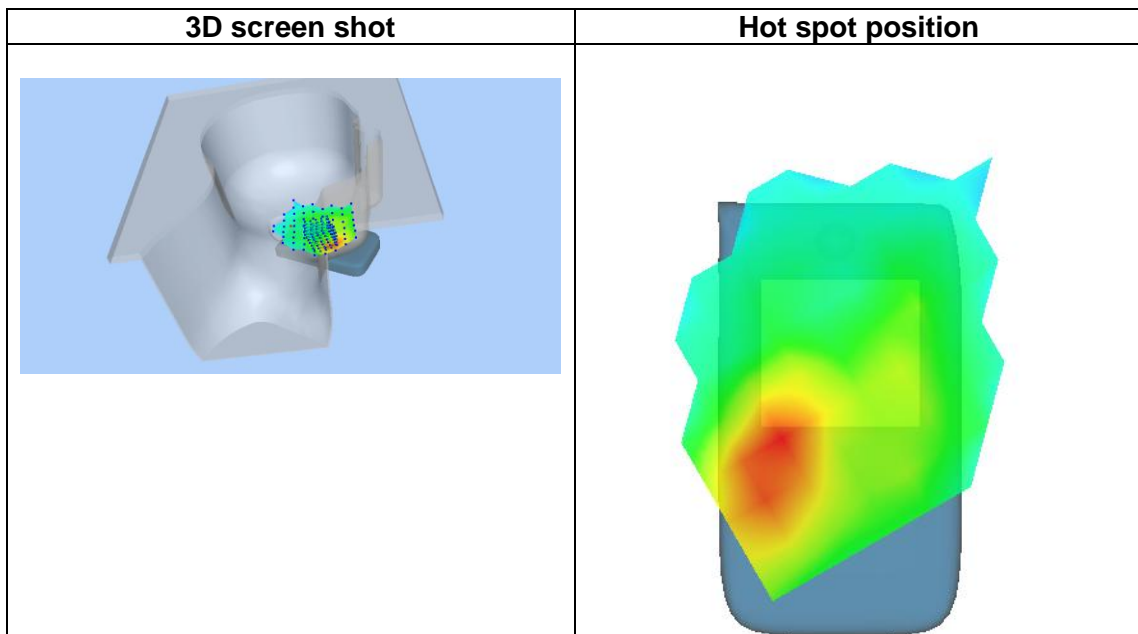
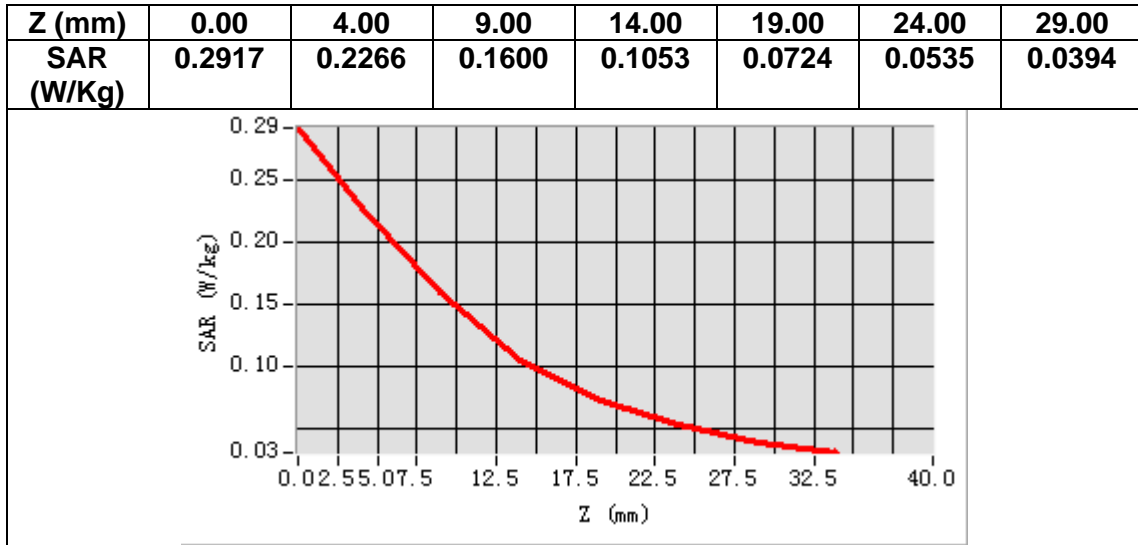
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-4.090000



Maximum location: X=-52.00, Y=-53.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.135703
SAR 1g (W/Kg)	0.217407



MEASUREMENT 4

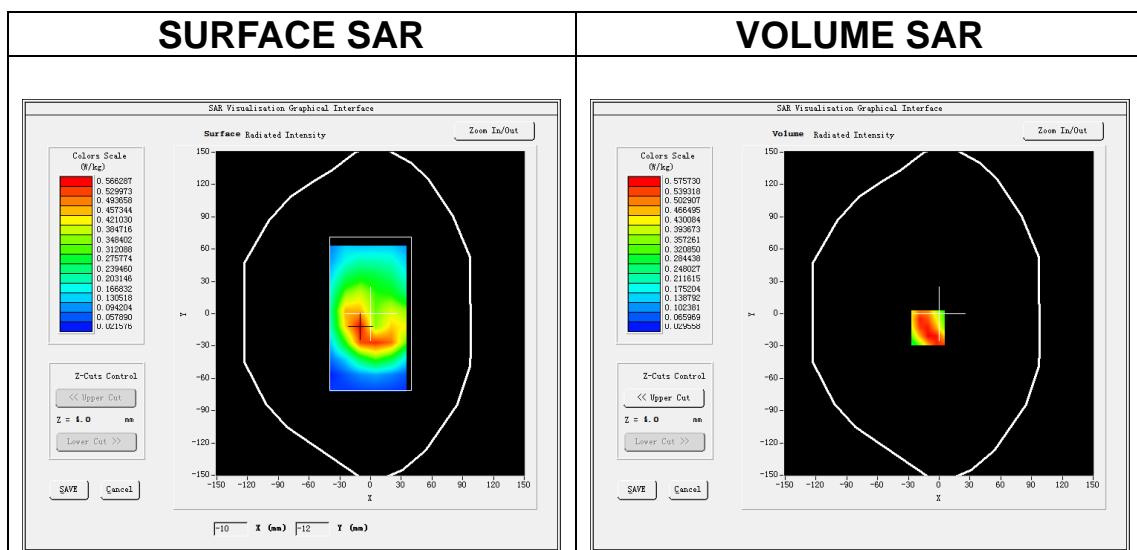
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

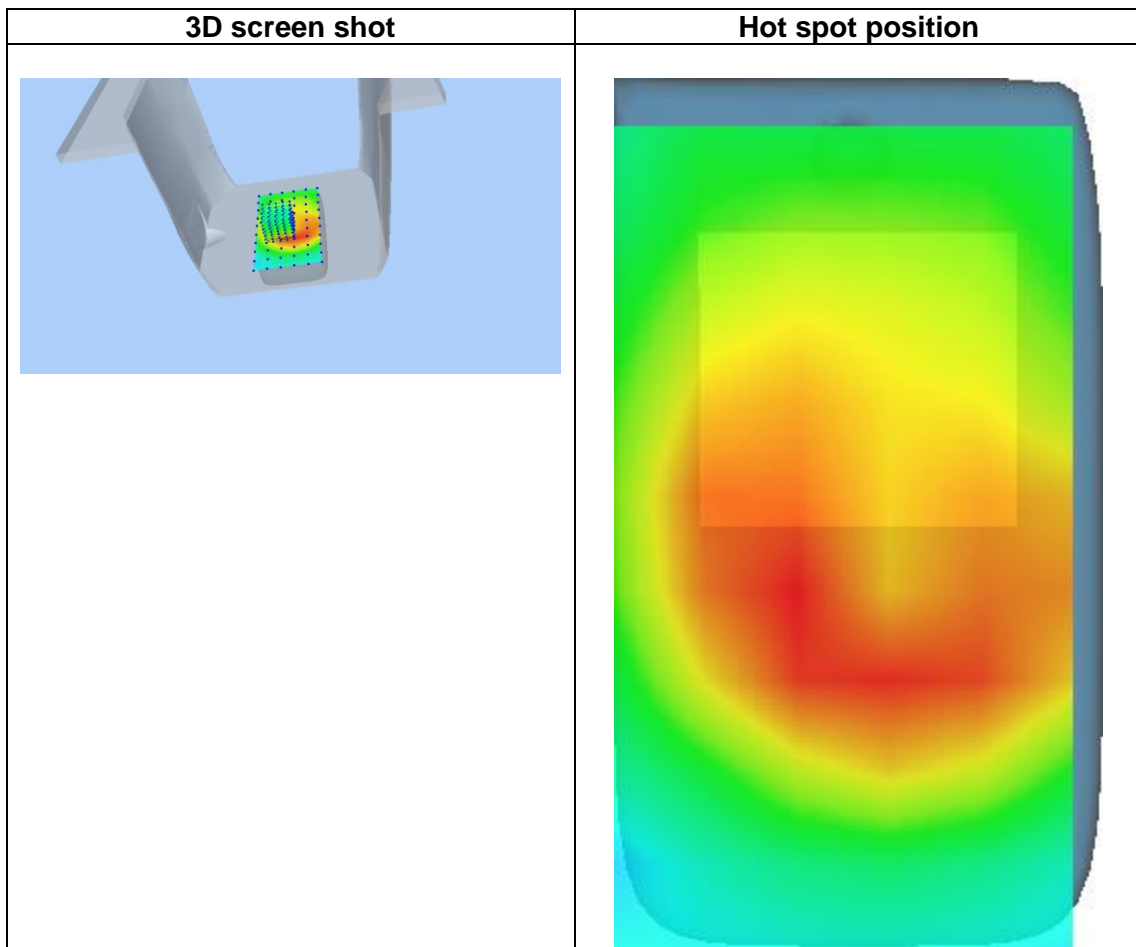
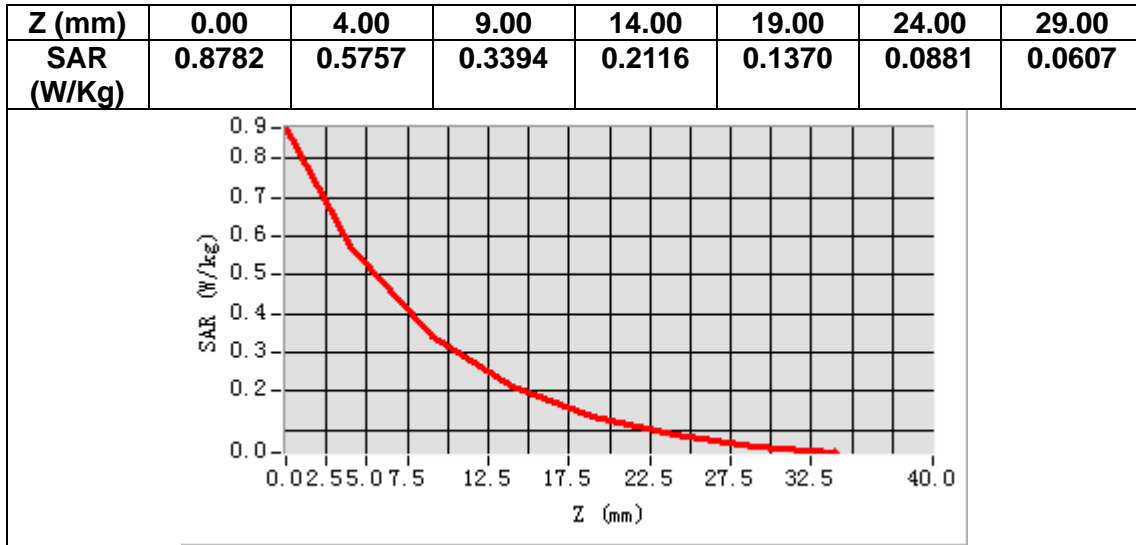
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.463902
Relative permittivity (imaginary part)	14.507700
Conductivity (S/m)	1.515249
Variation (%)	0.550000



Maximum location: X=-11.00, Y=-13.00

SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.336349
SAR 1g (W/Kg)	0.567231



MEASUREMENT 5

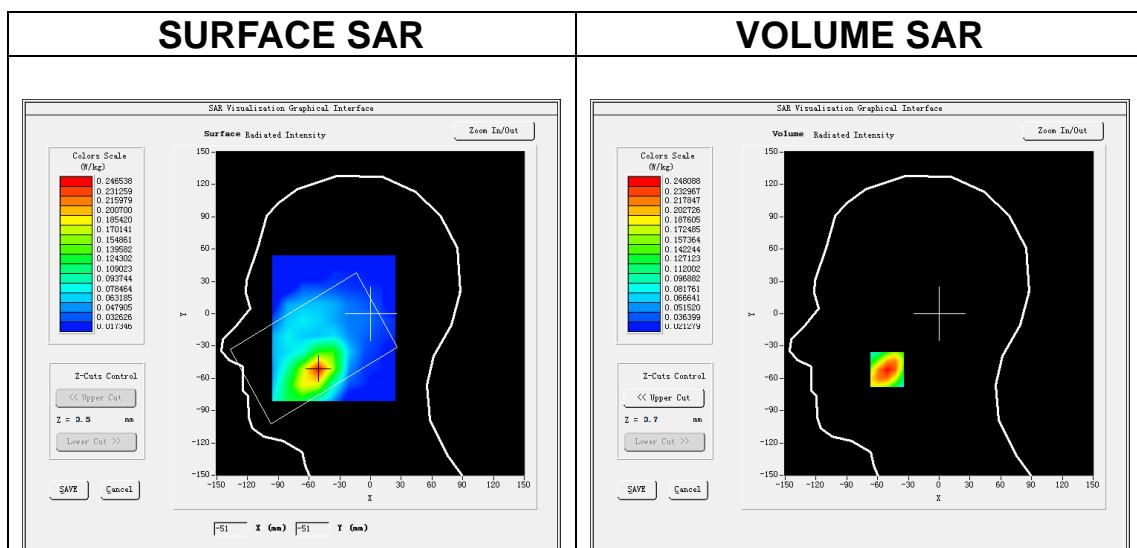
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

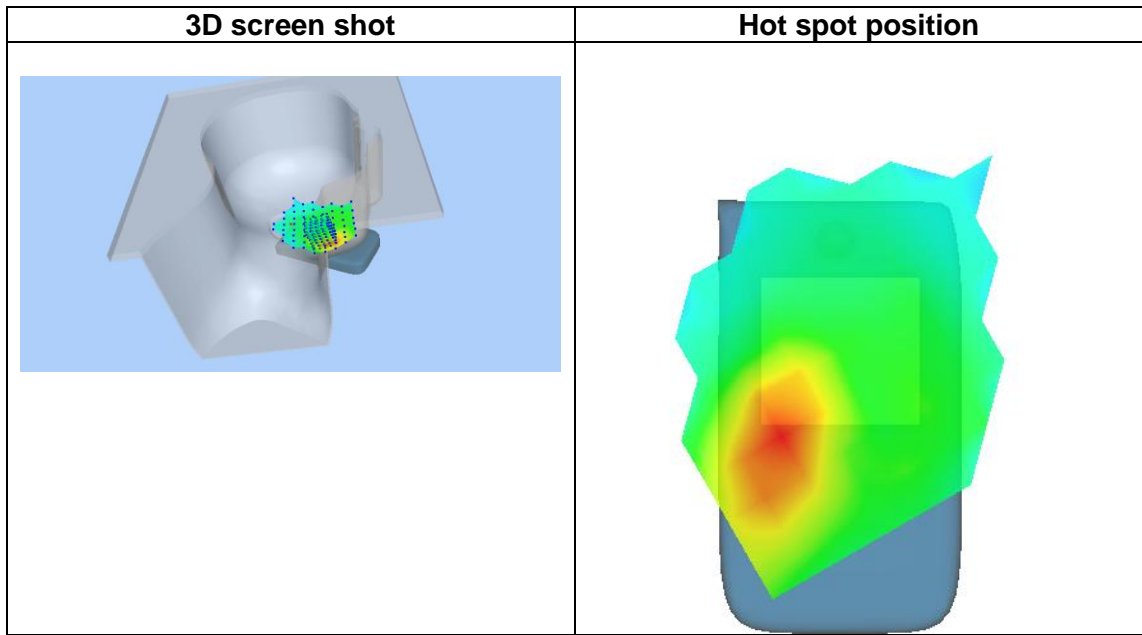
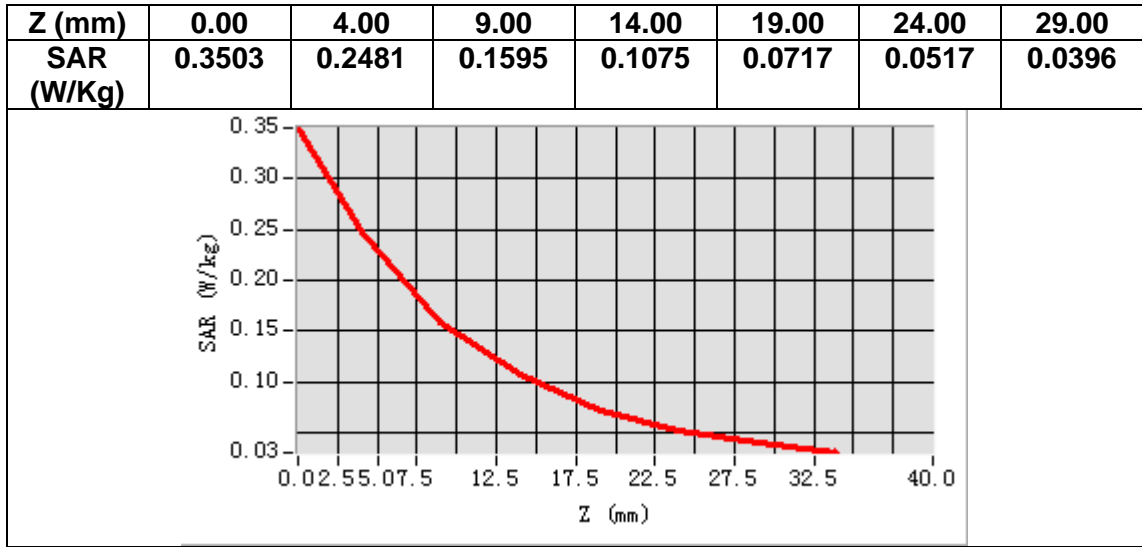
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-2.420000



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

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.141486
SAR 1g (W/Kg)	0.234933



MEASUREMENT 6

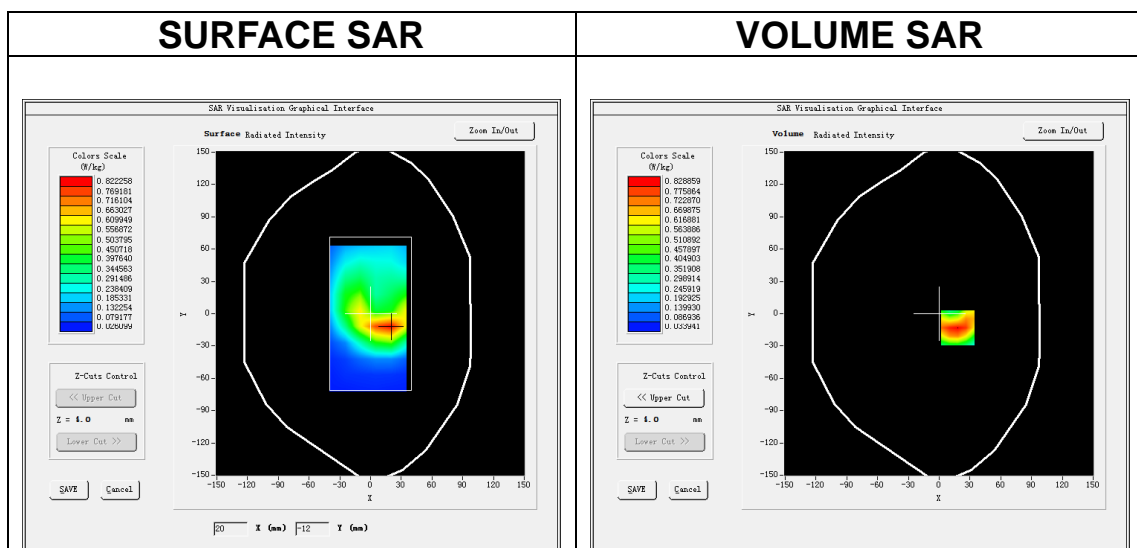
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

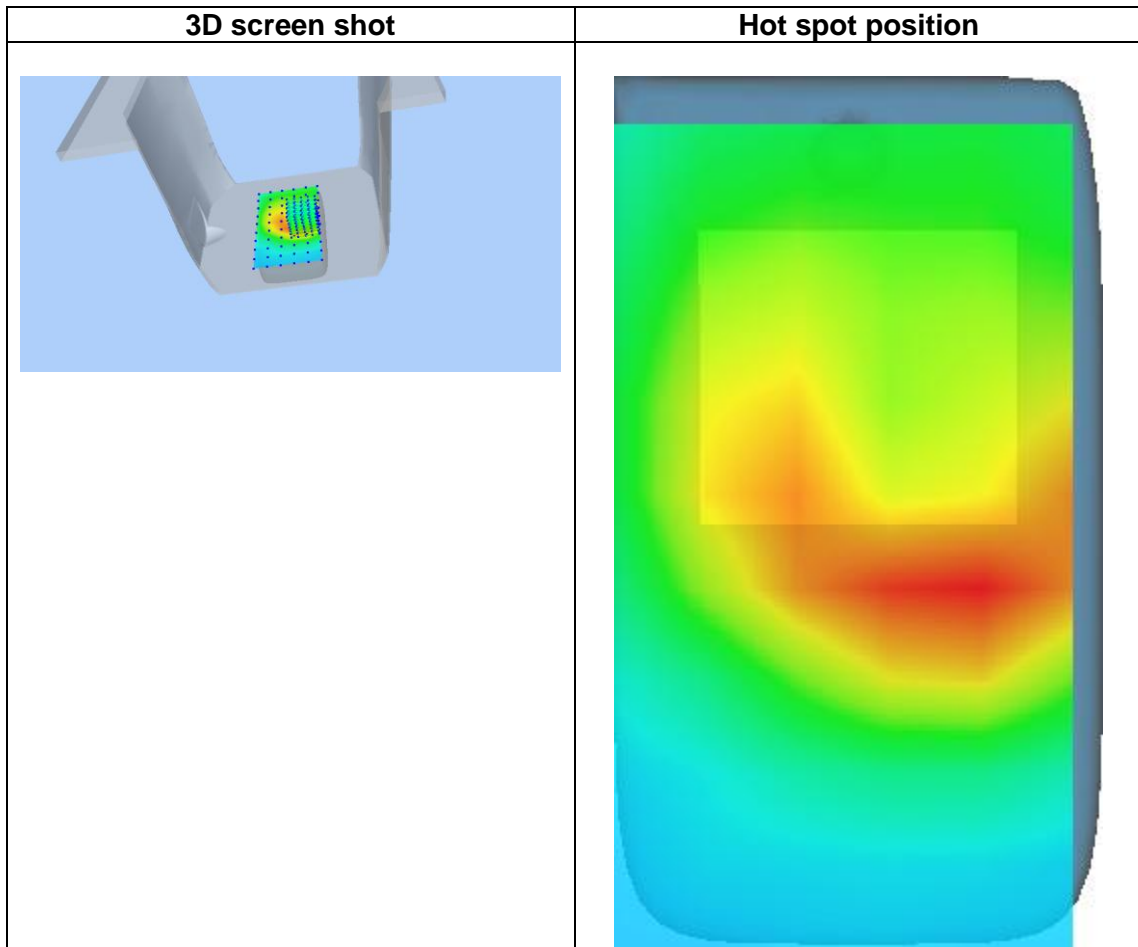
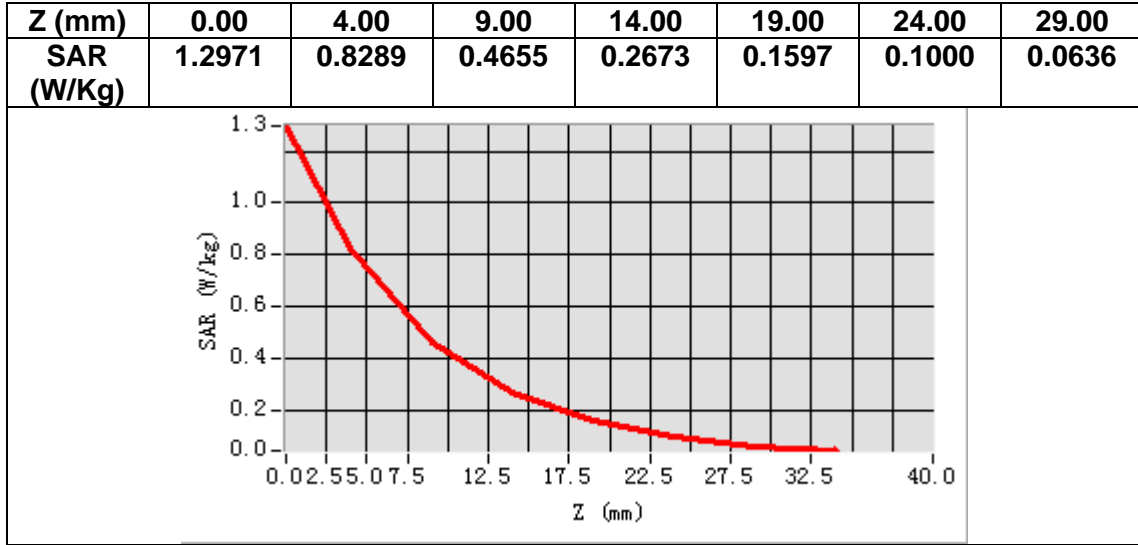
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.463902
Relative permittivity (imaginary part)	14.507700
Conductivity (S/m)	1.515249
Variation (%)	0.230000



Maximum location: X=18.00, Y=-13.00

SAR Peak: 1.31 W/kg

SAR 10g (W/Kg)	0.431995
SAR 1g (W/Kg)	0.792609



MEASUREMENT 7

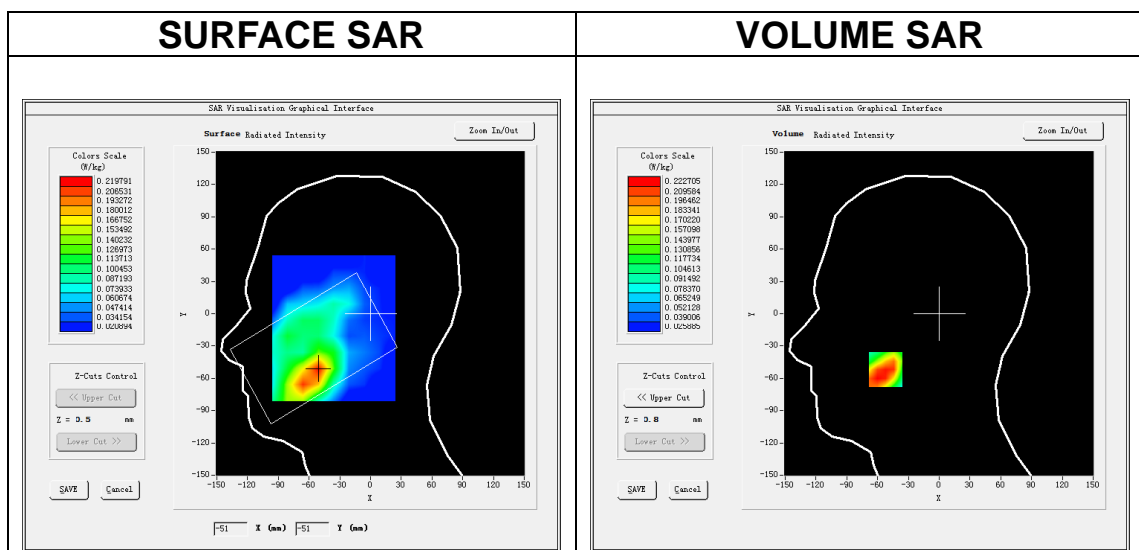
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

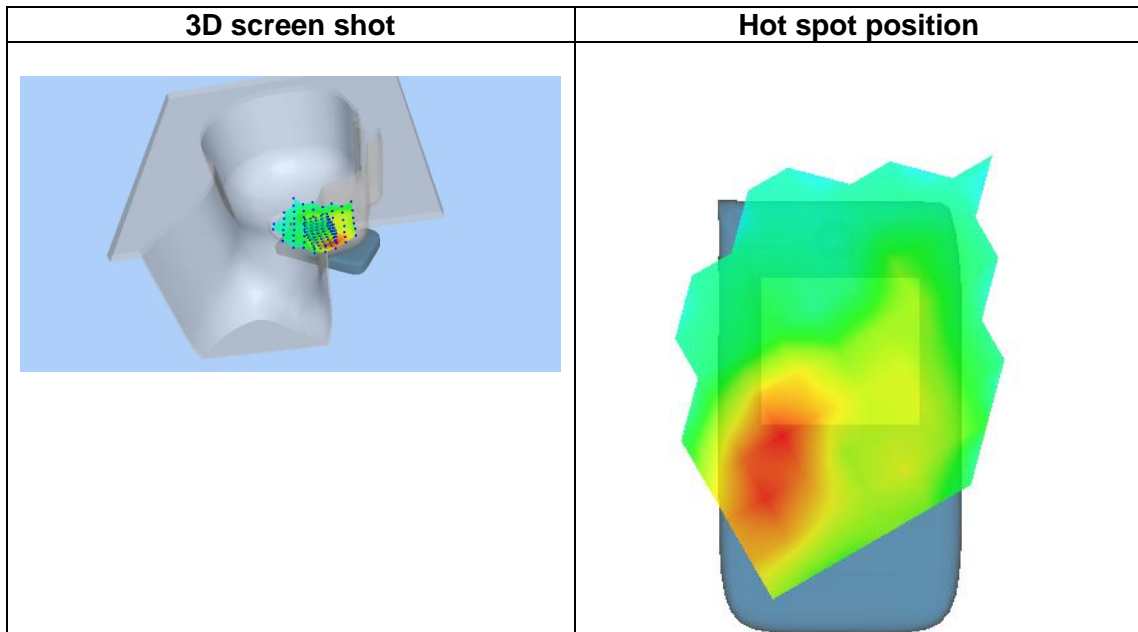
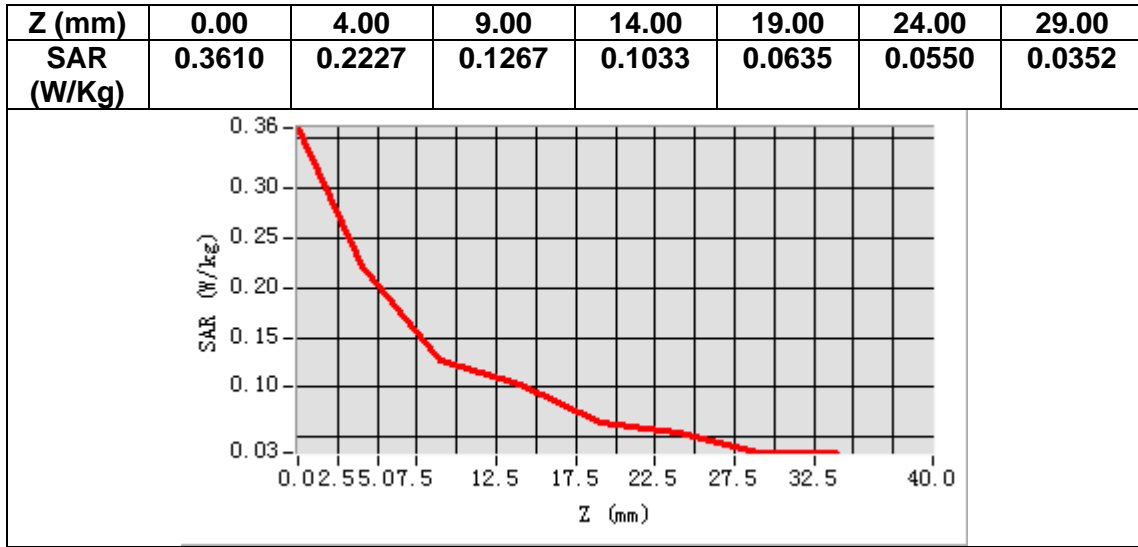
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.247391
Relative permittivity (imaginary part)	13.685742
Conductivity (S/m)	1.316873
Variation (%)	-2.570000



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

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.135722
SAR 1g (W/Kg)	0.215807



MEASUREMENT 8

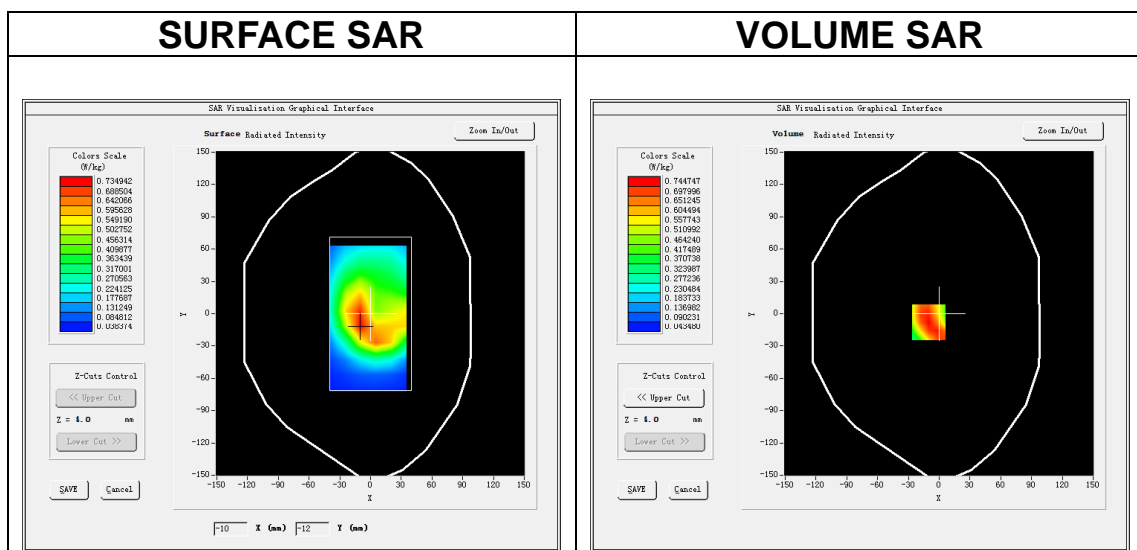
Date of measurement: 10/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	54.581165
Relative permittivity (imaginary part)	15.116370
Conductivity (S/m)	1.454531
Variation (%)	-0.080000

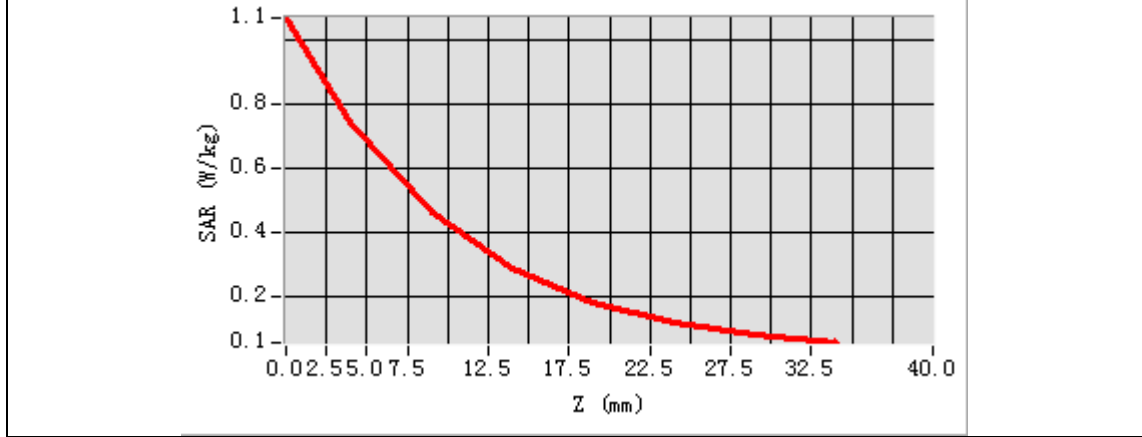


Maximum location: X=-10.00, Y=-8.00

SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.437373
SAR 1g (W/Kg)	0.715132

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0713	0.7447	0.4650	0.2895	0.1846	0.1205	0.0837



3D screen shot	Hot spot position

MEASUREMENT 9

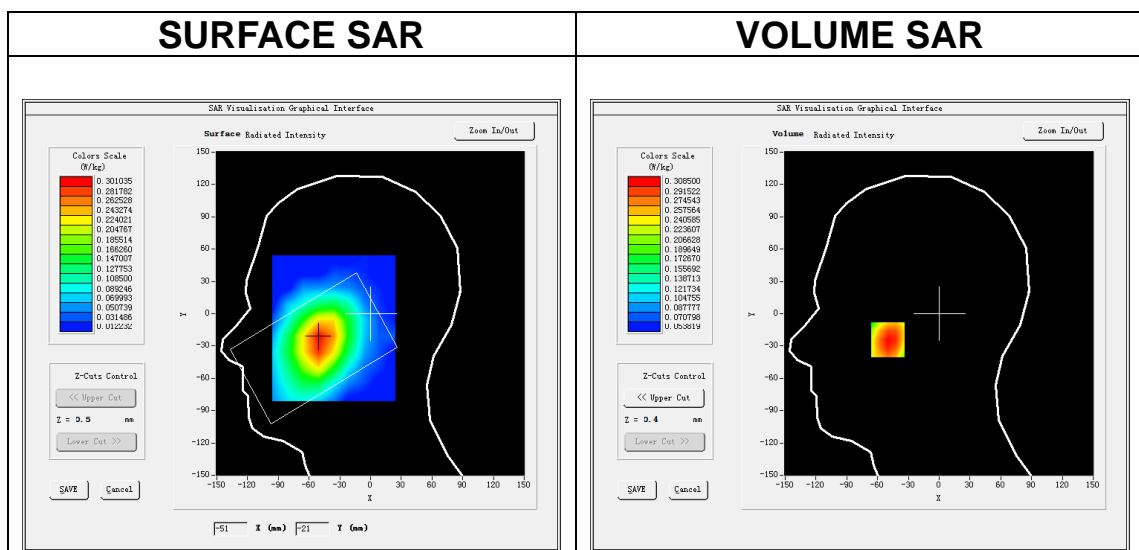
Date of measurement: 3/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

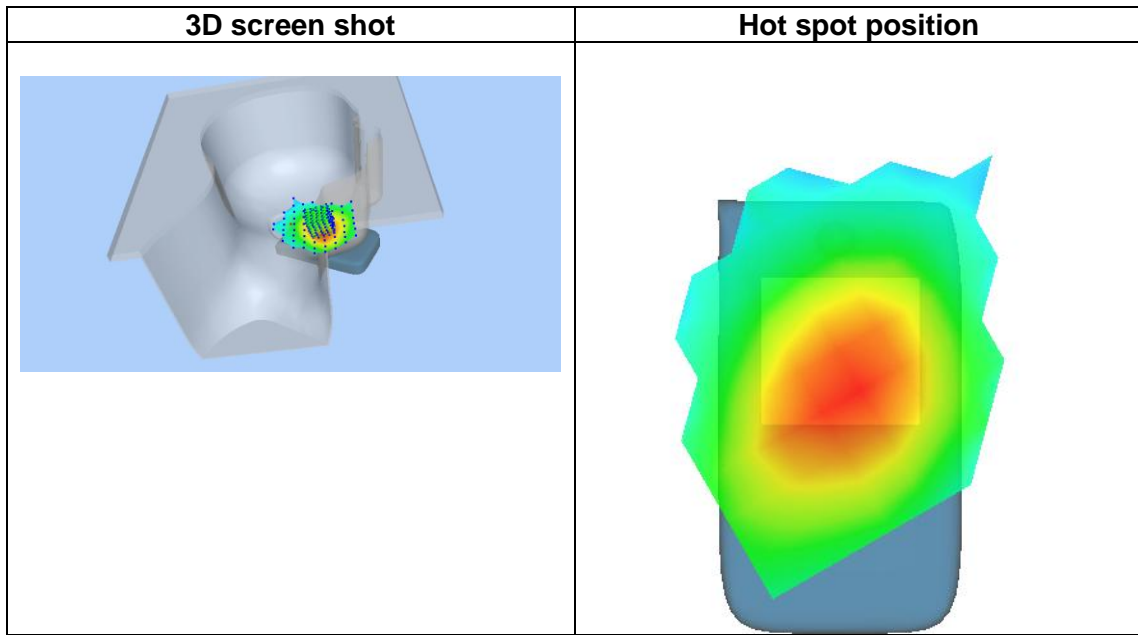
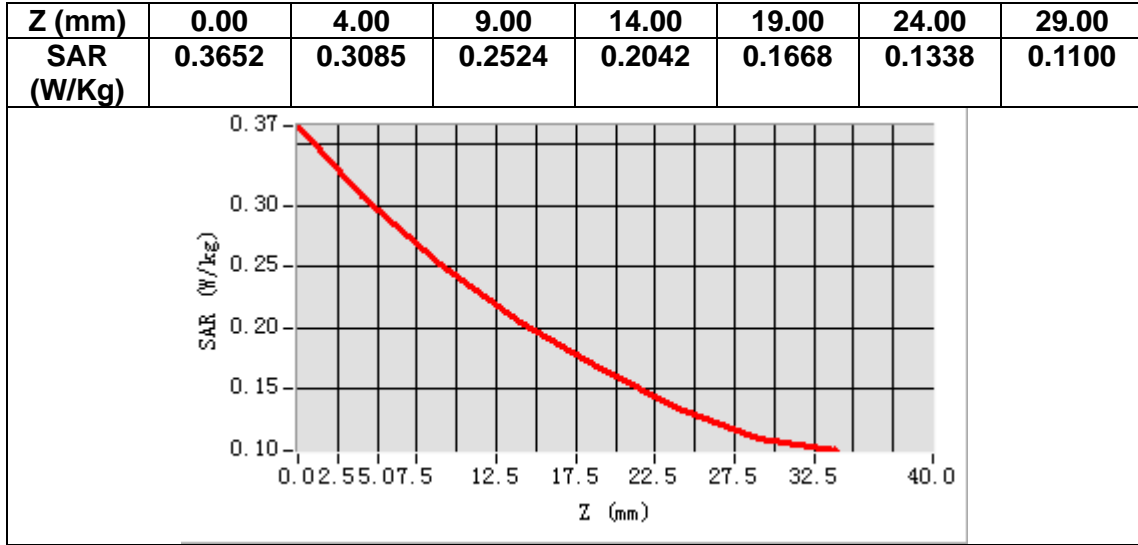
Frequency (MHz)	836.400000
Relative permittivity (real part)	40.840961
Relative permittivity (imaginary part)	19.901541
Conductivity (S/m)	0.924758
Variation (%)	-4.460000



Maximum location: X=-50.00, Y=-24.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.230149
SAR 1g (W/Kg)	0.307820



MEASUREMENT 10

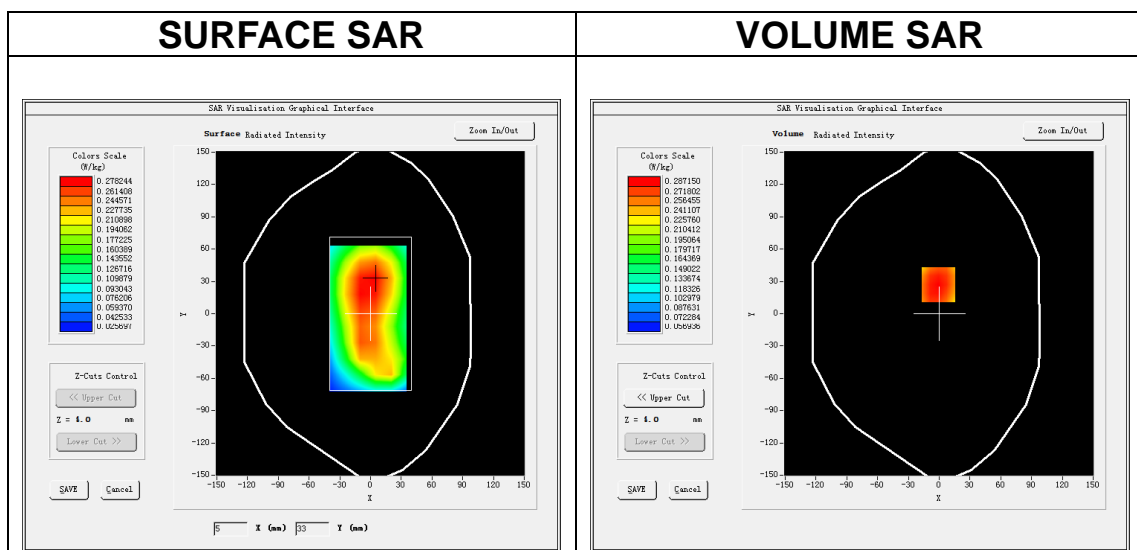
Date of measurement: 3/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	54.669579
Relative permittivity (imaginary part)	21.102739
Conductivity (S/m)	0.980574
Variation (%)	-0.340000

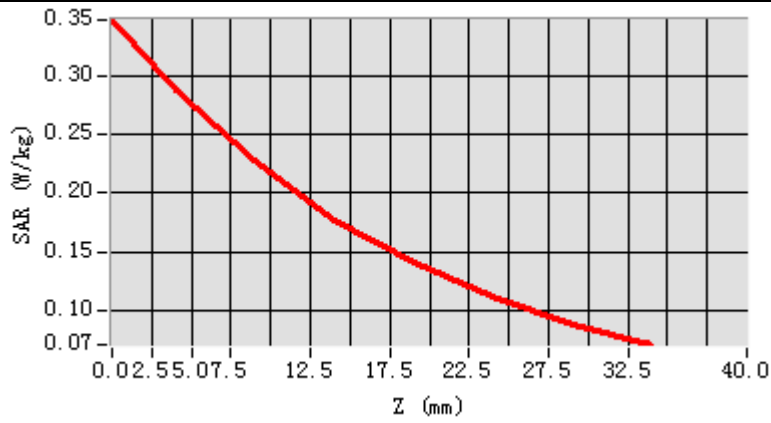


Maximum location: X=-1.00, Y=27.00

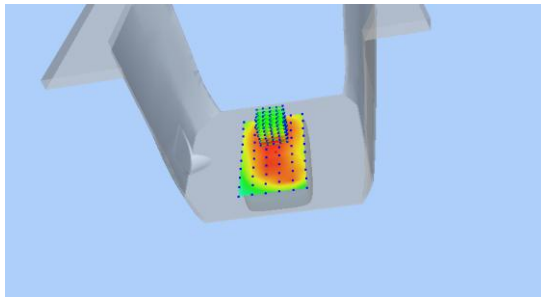
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.213482
SAR 1g (W/Kg)	0.281605

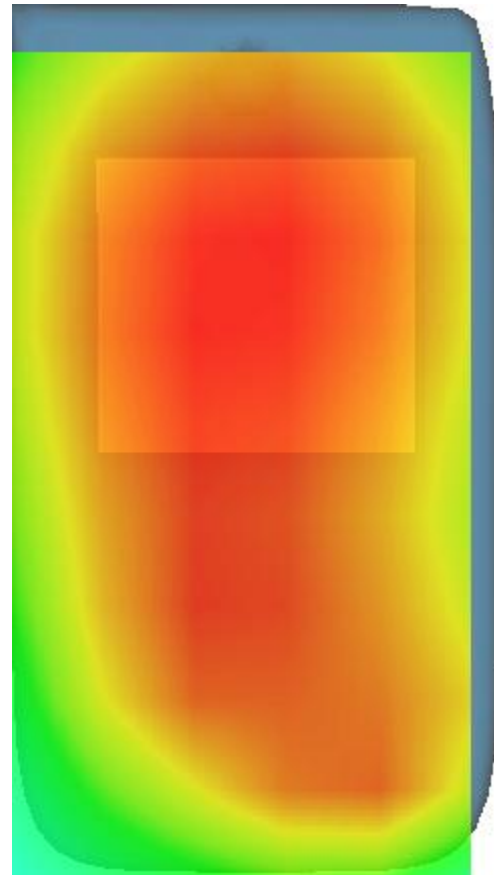
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3473	0.2872	0.2278	0.1770	0.1415	0.1111	0.0870



3D screen shot



Hot spot position



MEASUREMENT 11

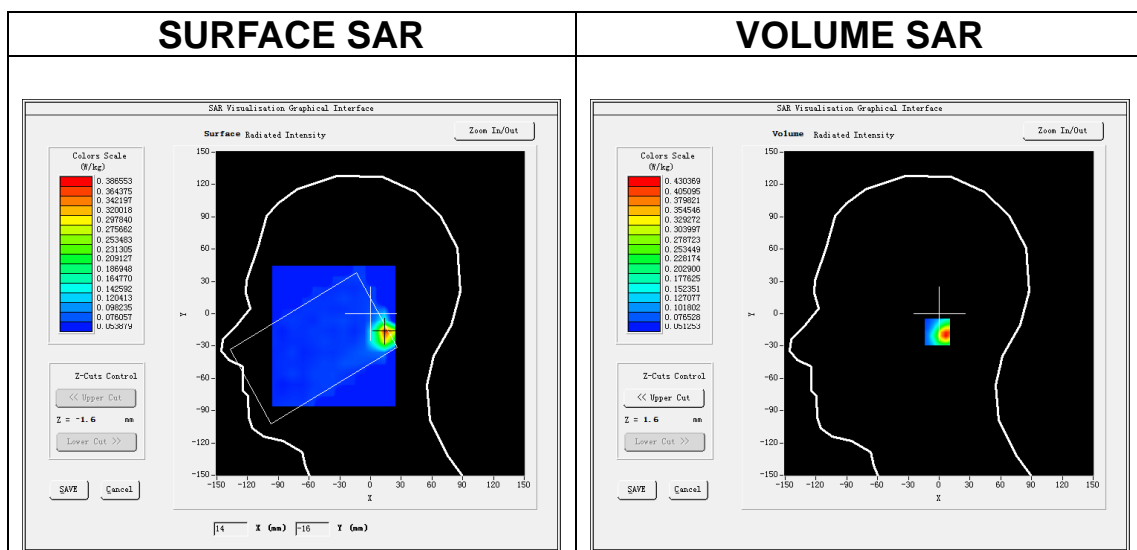
Date of measurement: 6/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.759981
Relative permittivity (imaginary part)	16.021619
Conductivity (S/m)	4.628468
Variation (%)	4.000000

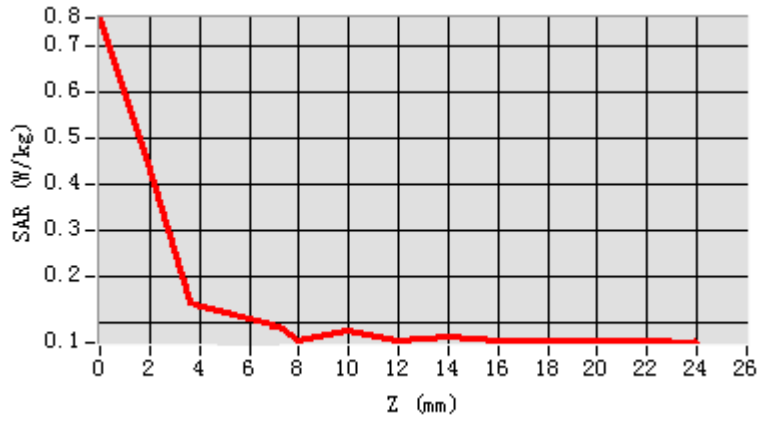


Maximum location: X=7.00, Y=-17.00

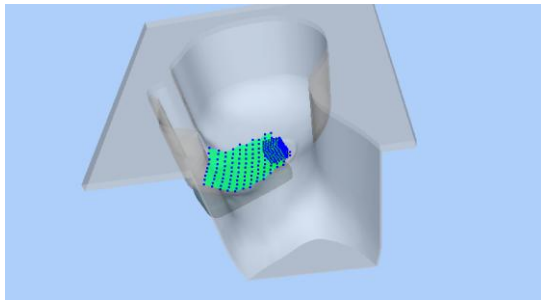
SAR Peak: 1.13 W/kg

SAR 10g (W/Kg)	0.154997
SAR 1g (W/Kg)	0.420962

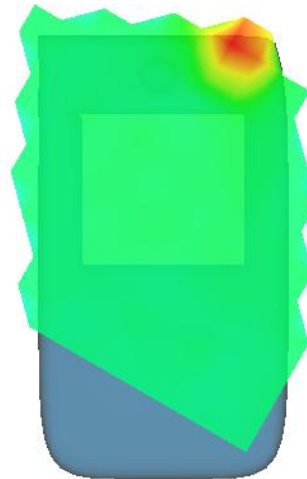
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.7598	0.4304	0.0710	0.1398	0.0587	0.0803	0.0580	0.0678	0.0588	0.0605	0.0602	0.0593



3D screen shot



Hot spot position



MEASUREMENT 12

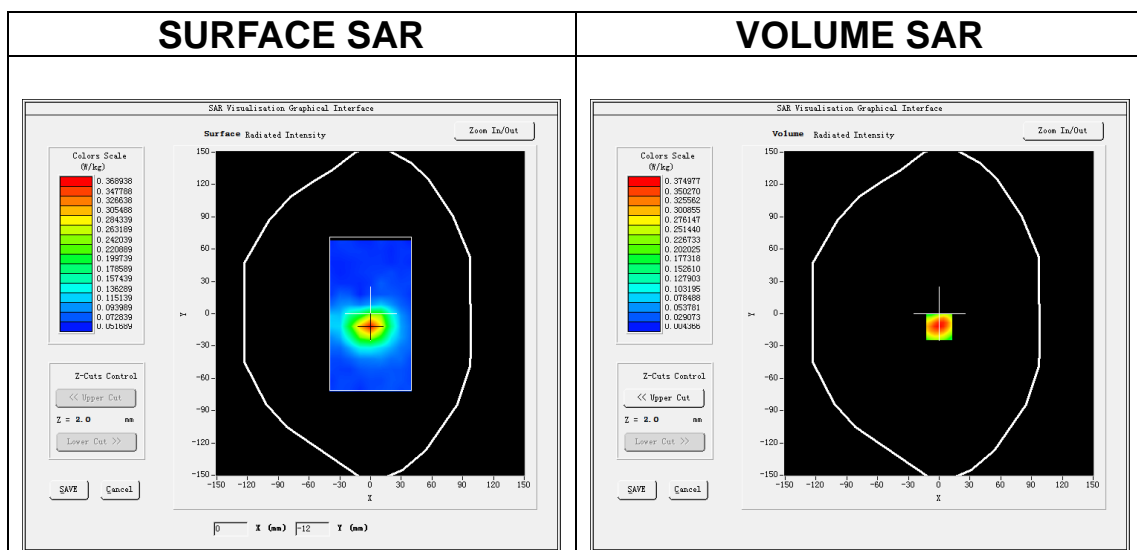
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.769539
Relative permittivity (imaginary part)	18.145510
Conductivity (S/m)	5.242036
Variation (%)	-0.010000

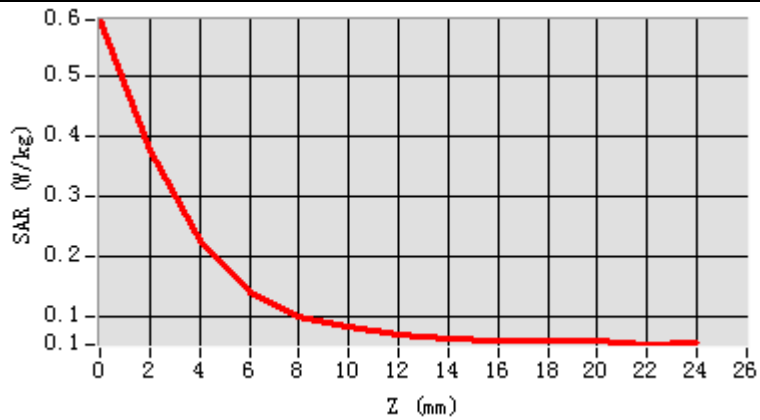


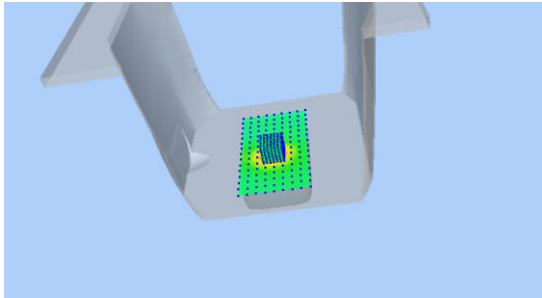
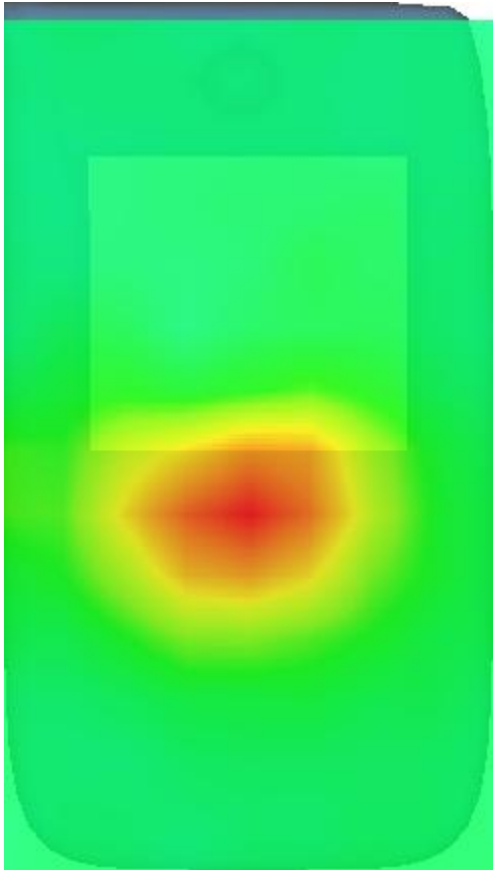
Maximum location: X=0.00, Y=-12.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.130972
SAR 1g (W/Kg)	0.243030

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.5915	0.3750	0.2251	0.1417	0.1013	0.0827	0.0717	0.0649	0.0620	0.0597	0.0621	0.0543



3D screen shot	Hot spot position
	

MEASUREMENT 13

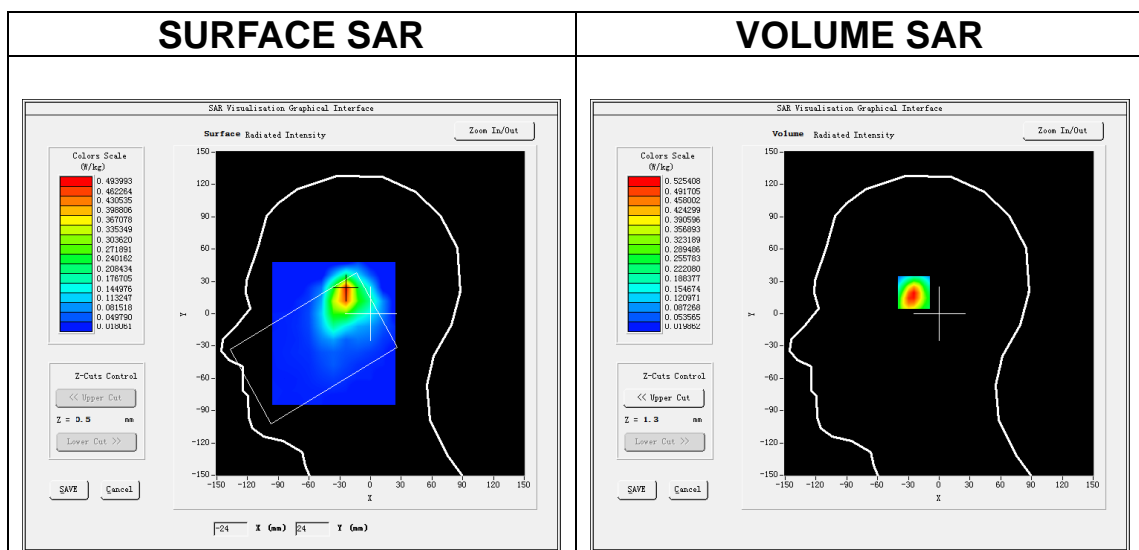
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

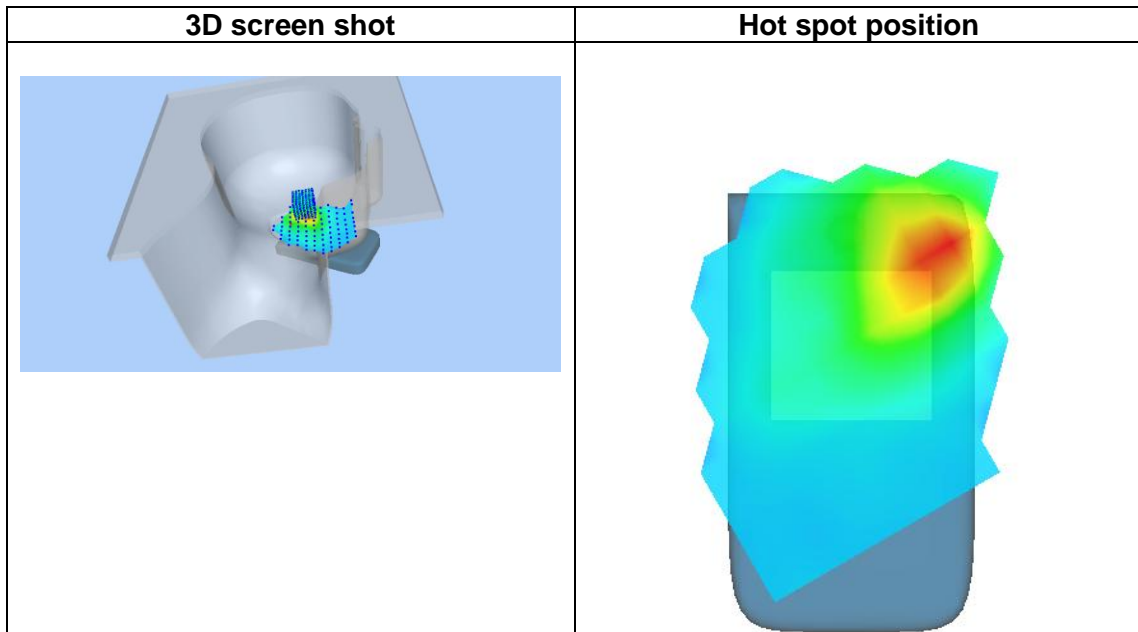
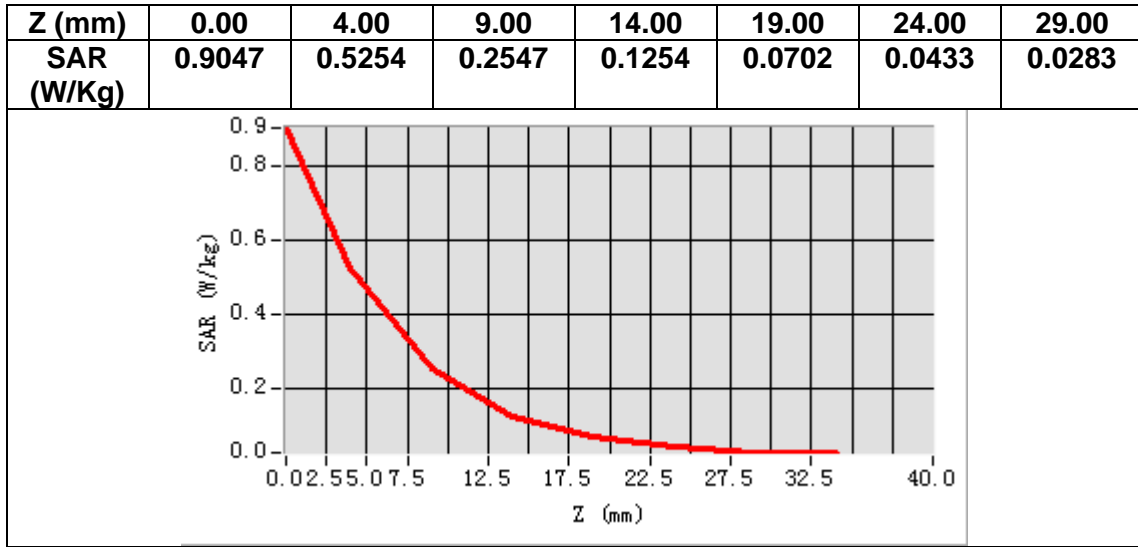
Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.757999
Relative permittivity (imaginary part)	13.390300
Conductivity (S/m)	1.812898
Variation (%)	2.830000



Maximum location: X=-24.00, Y=22.00

SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.239562
SAR 1g (W/Kg)	0.492139



MEASUREMENT 14

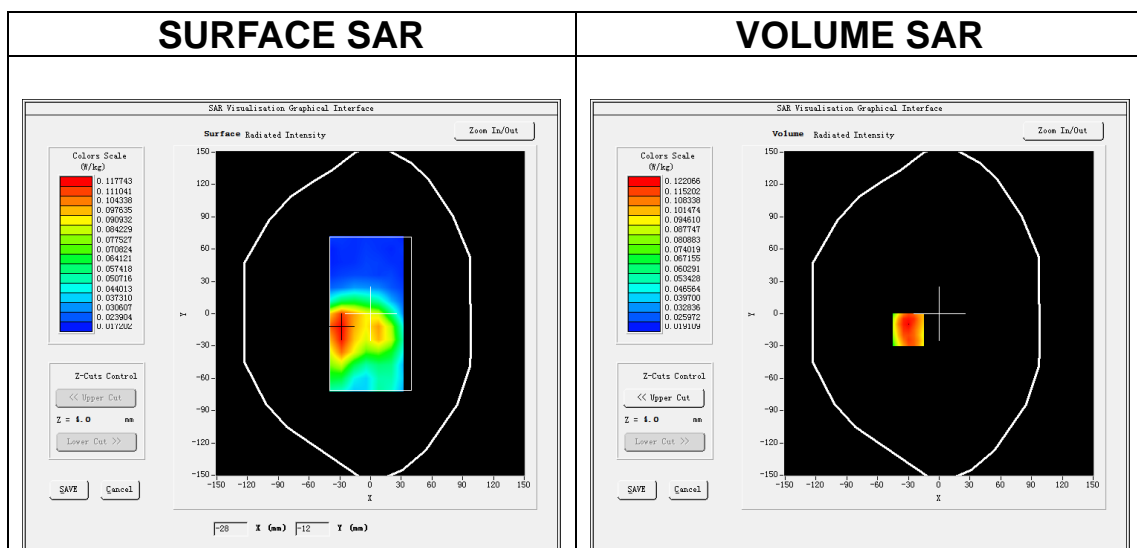
Date of measurement: 12/11/2020

A. Experimental conditions.

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

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 (%)	-2.030000

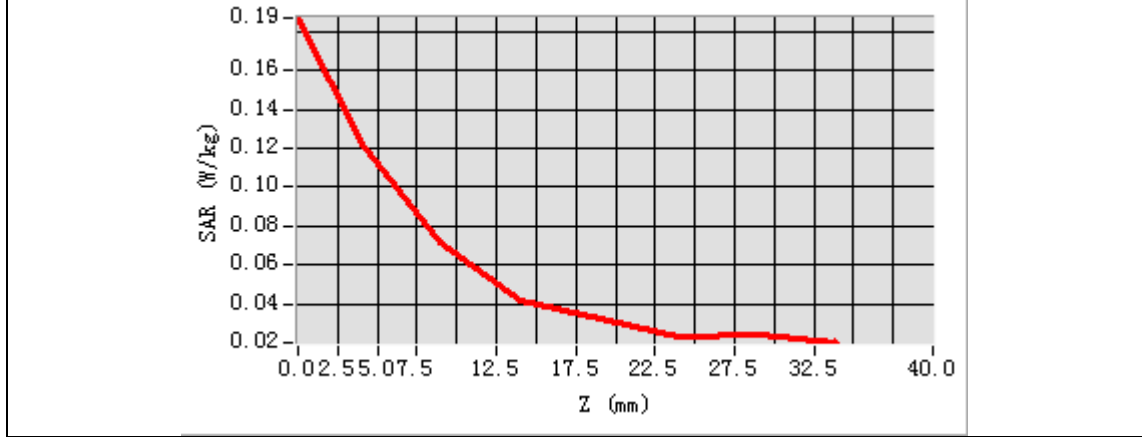


Maximum location: X=-30.00, Y=-15.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.072417
SAR 1g (W/Kg)	0.118511

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1868	0.1221	0.0712	0.0420	0.0327	0.0237	0.0246



3D screen shot	Hot spot position
<p>A 3D perspective view of a mobile phone with a grid of small colored squares overlaid on its surface, representing the SAR distribution. The colors range from green (low SAR) to red (high SAR).</p>	<p>A 2D heatmap showing the hot spot position. The color scale transitions from green (low intensity) to yellow and red (high intensity), indicating the location of maximum SAR exposure on the phone's surface.</p>

MEASUREMENT 15

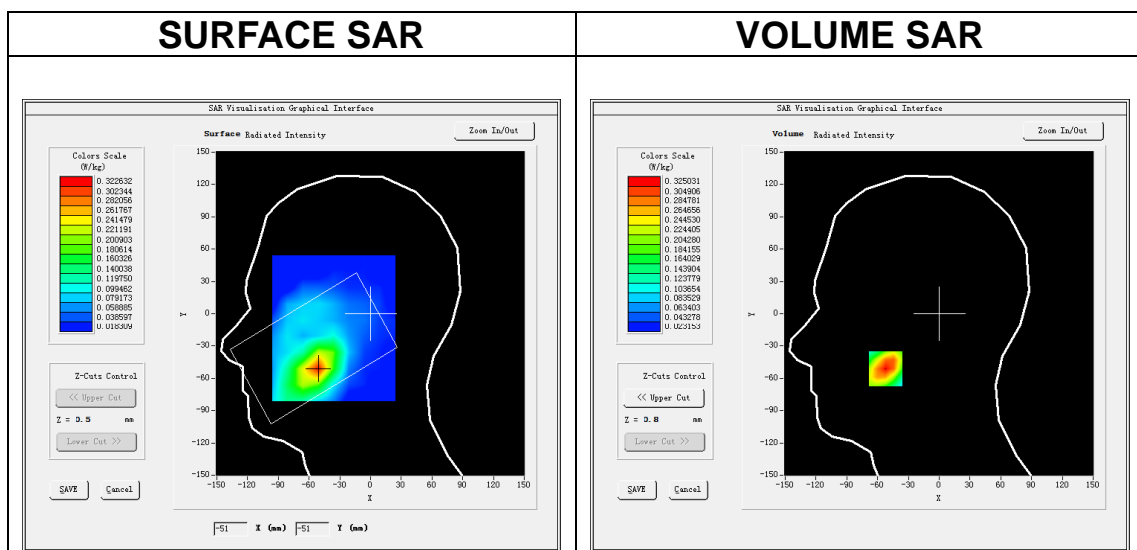
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

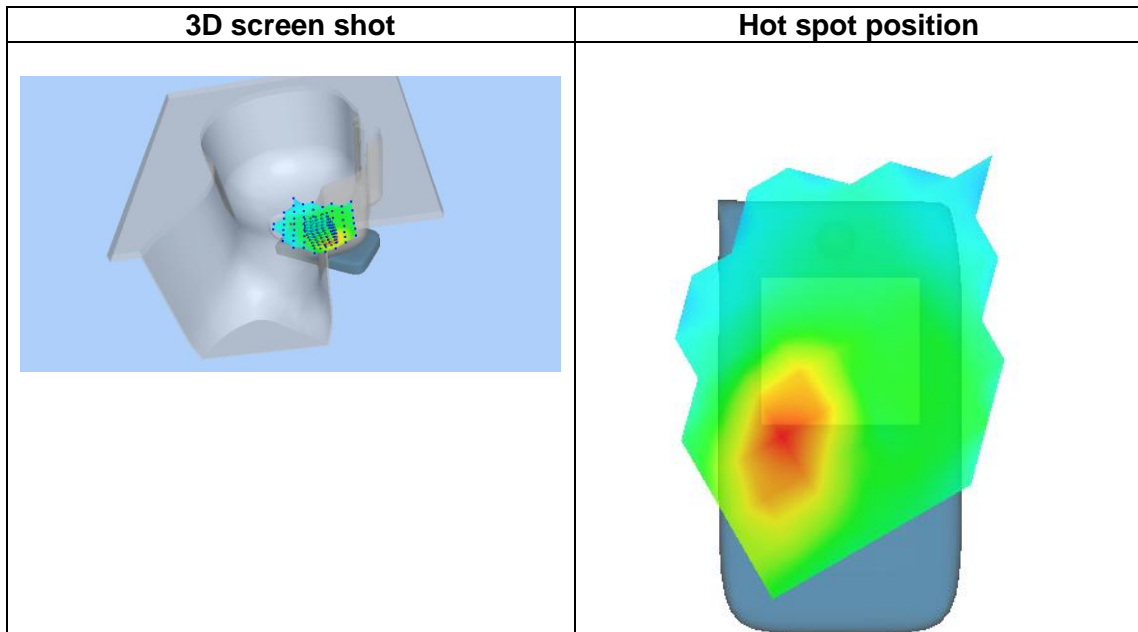
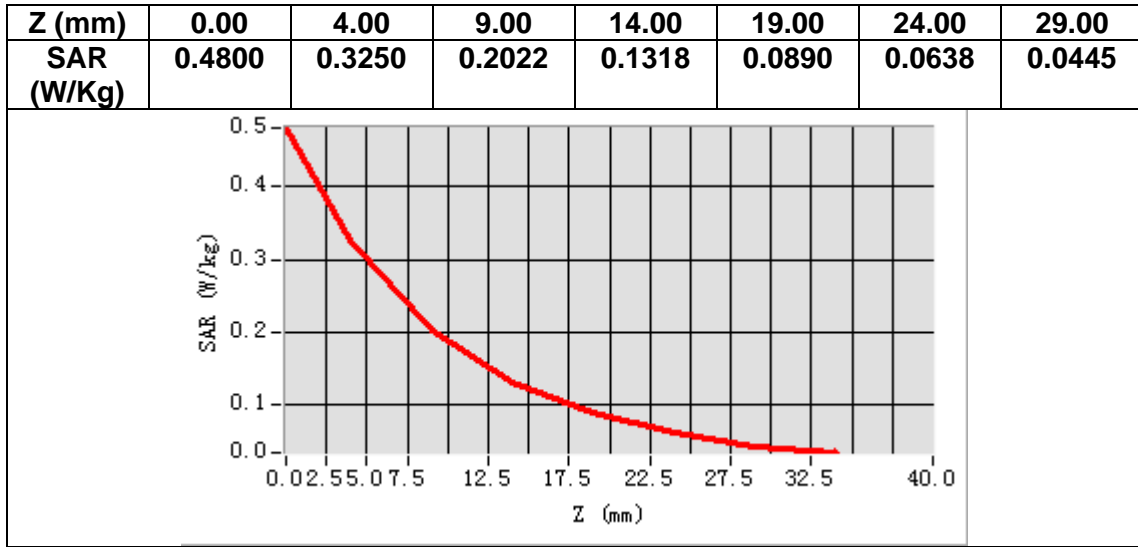
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	2.020000



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

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.180092
SAR 1g (W/Kg)	0.310162



MEASUREMENT 16

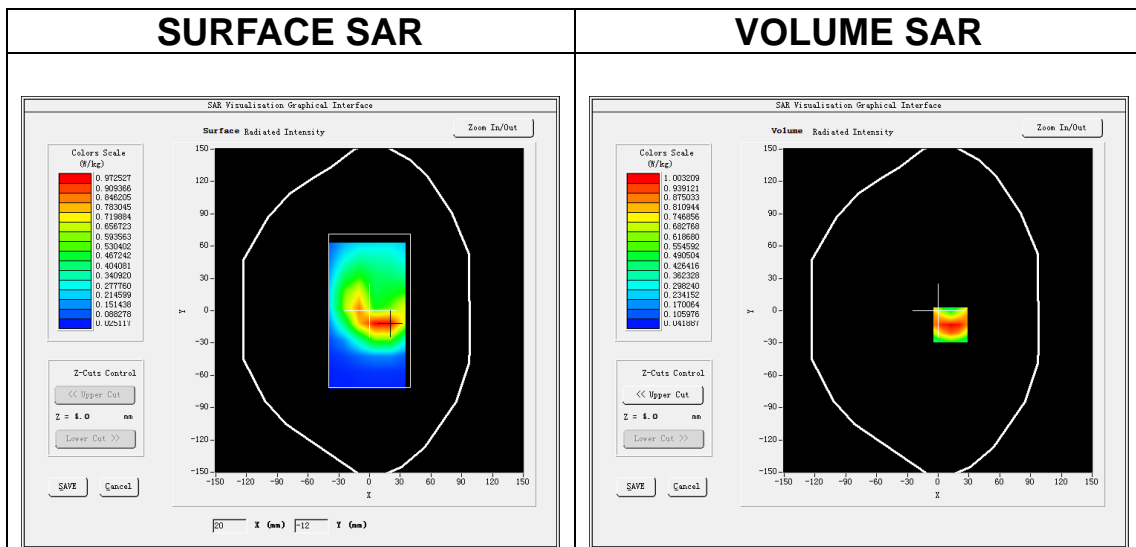
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.463902
Relative permittivity (imaginary part)	14.507700
Conductivity (S/m)	1.515249
Variation (%)	-0.830000

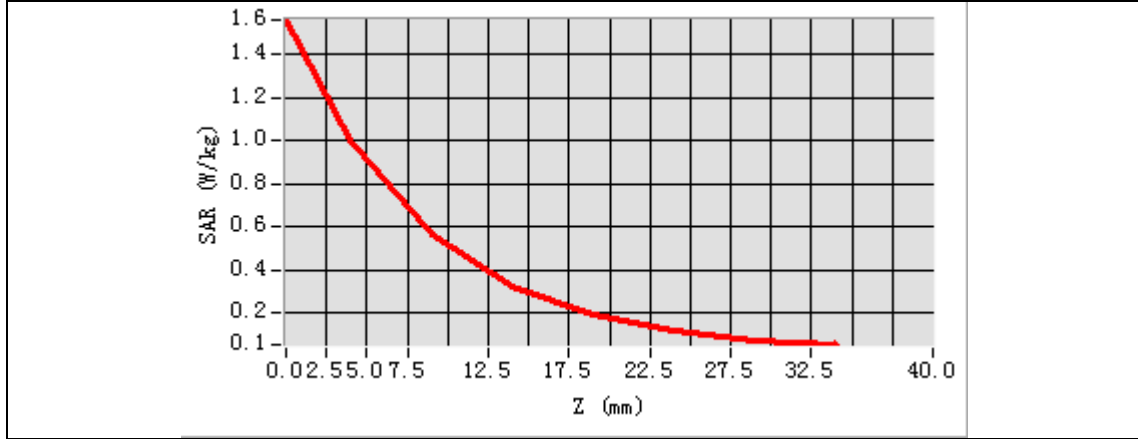


Maximum location: X=12.00, Y=-13.00

SAR Peak: 1.60 W/kg

SAR 10g (W/Kg)	0.528331
SAR 1g (W/Kg)	0.971352

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.5597	1.0032	0.5673	0.3270	0.1959	0.1186	0.0763



3D screen shot	Hot spot position

MEASUREMENT 17

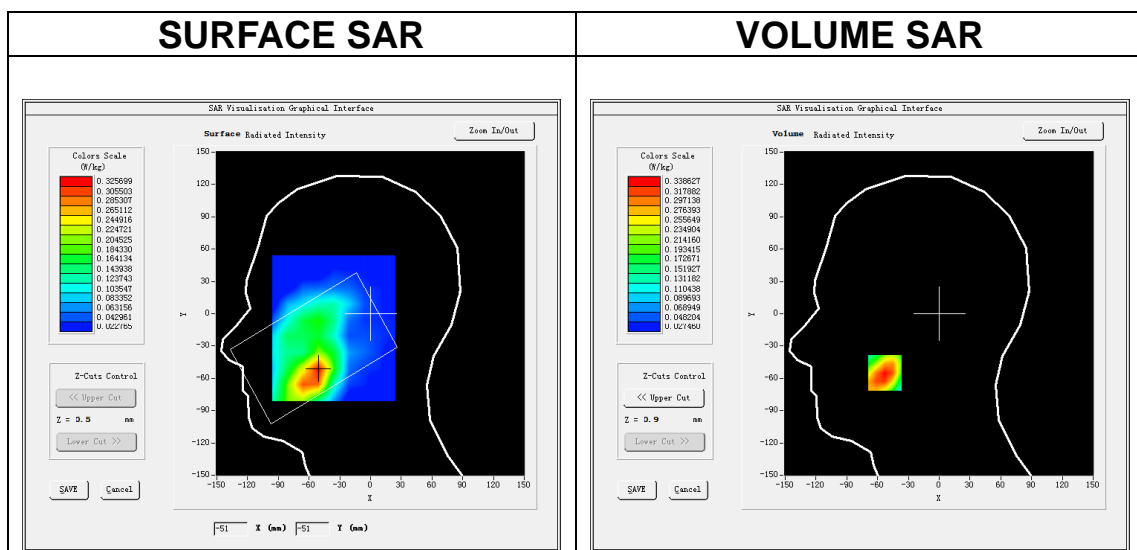
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.255291
Relative permittivity (imaginary part)	13.670592
Conductivity (S/m)	1.315794
Variation (%)	4.889999

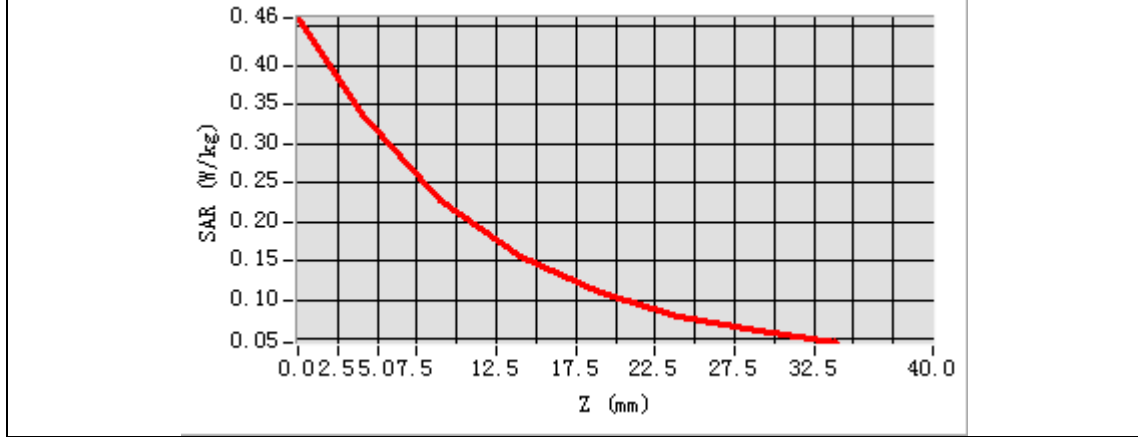


Maximum location: X=-53.00, Y=-55.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.203153
SAR 1g (W/Kg)	0.324347

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4606	0.3386	0.2286	0.1567	0.1102	0.0801	0.0622



3D screen shot	Hot spot position

MEASUREMENT 18

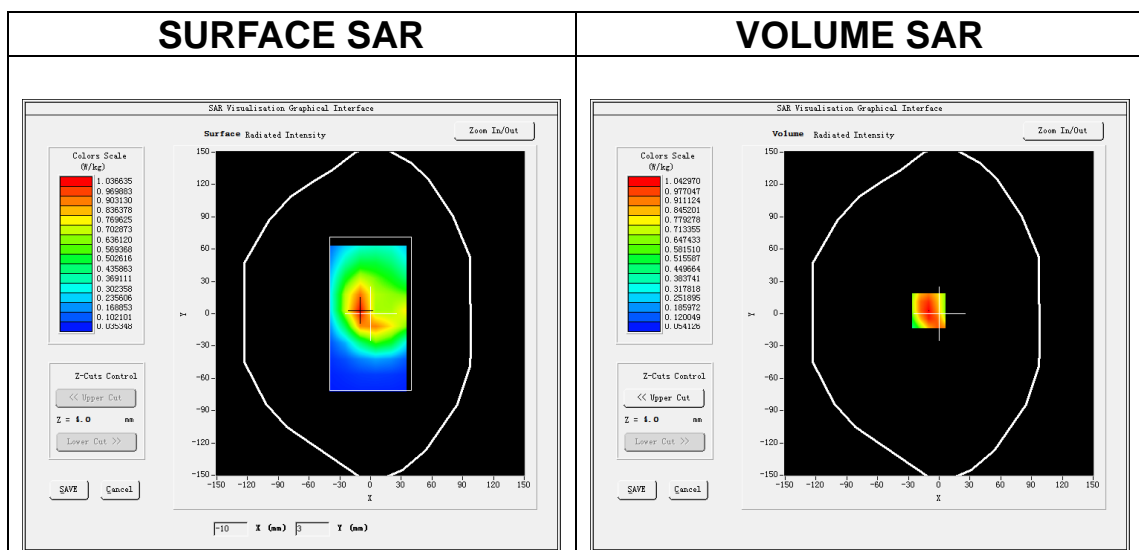
Date of measurement: 10/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

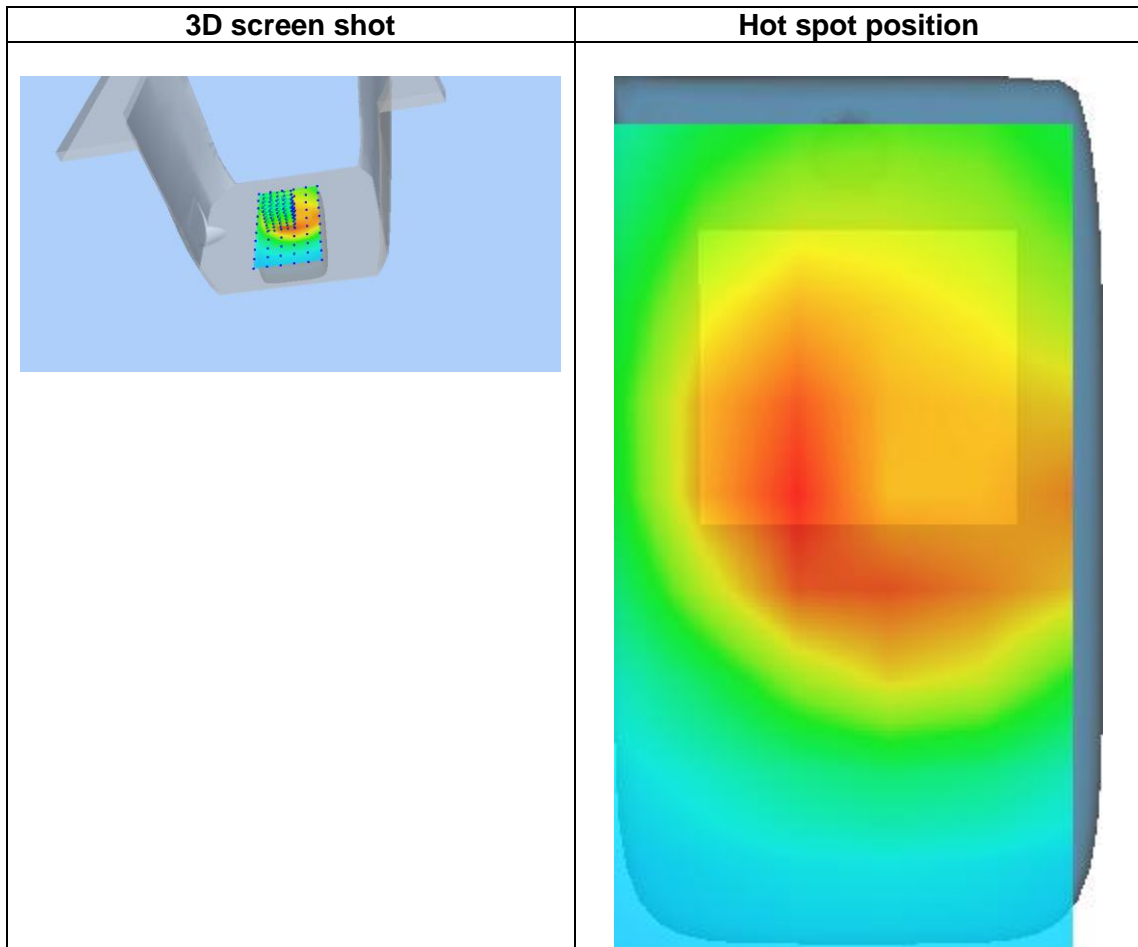
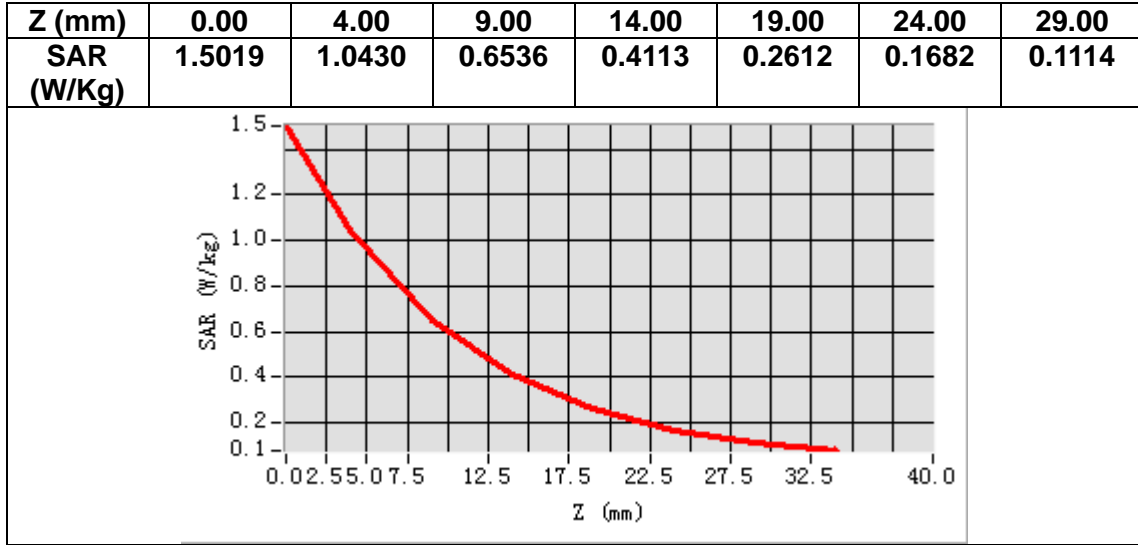
Frequency (MHz)	1732.500000
Relative permittivity (real part)	54.568367
Relative permittivity (imaginary part)	15.098220
Conductivity (S/m)	1.453204
Variation (%)	0.410000



Maximum location: X=-10.00, Y=3.00

SAR Peak: 1.53 W/kg

SAR 10g (W/Kg)	0.608865
SAR 1g (W/Kg)	1.001823



MEASUREMENT 19

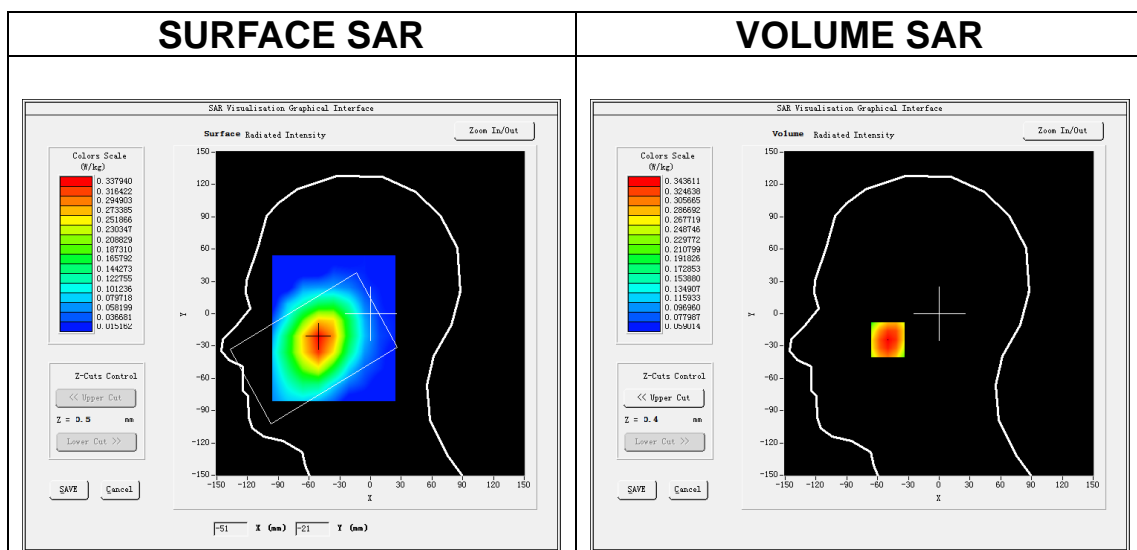
Date of measurement: 3/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

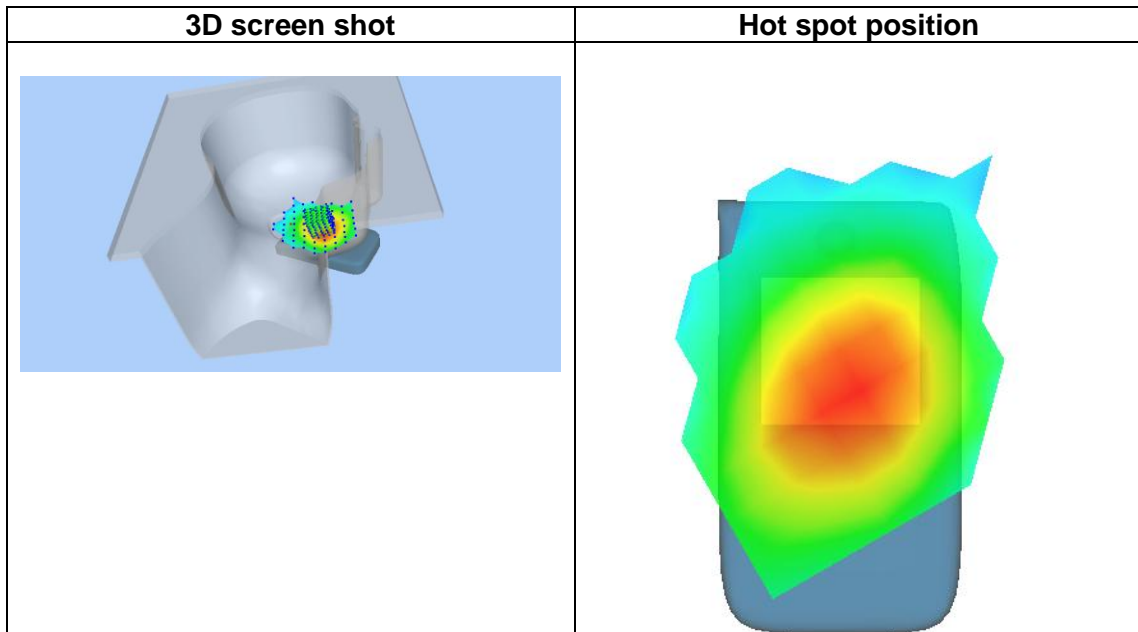
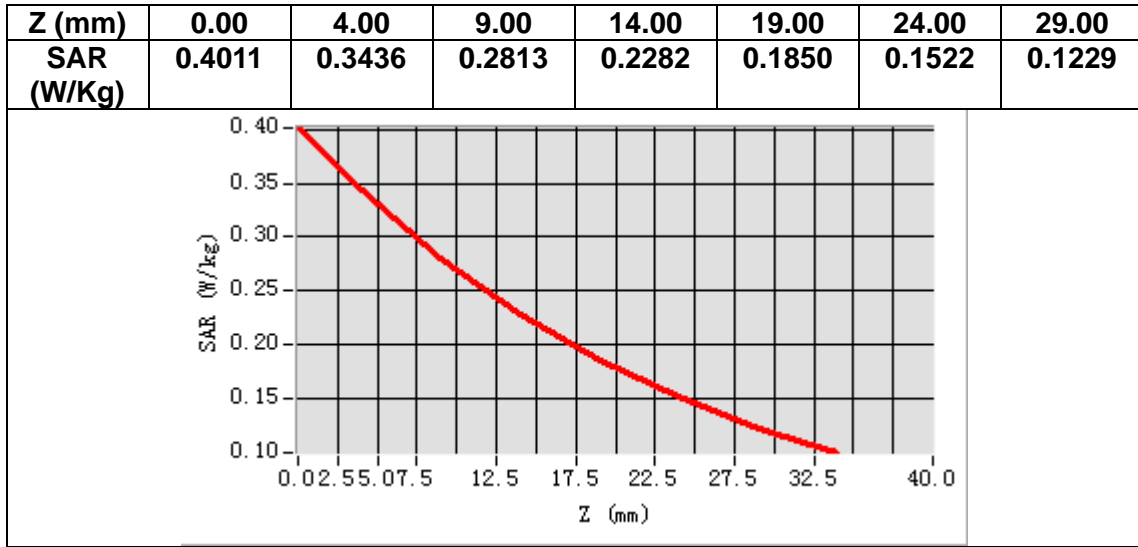
Frequency (MHz)	836.500000
Relative permittivity (real part)	40.843552
Relative permittivity (imaginary part)	19.900200
Conductivity (S/m)	0.924807
Variation (%)	0.380000



Maximum location: X=-50.00, Y=-24.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.258116
SAR 1g (W/Kg)	0.340295



MEASUREMENT 20

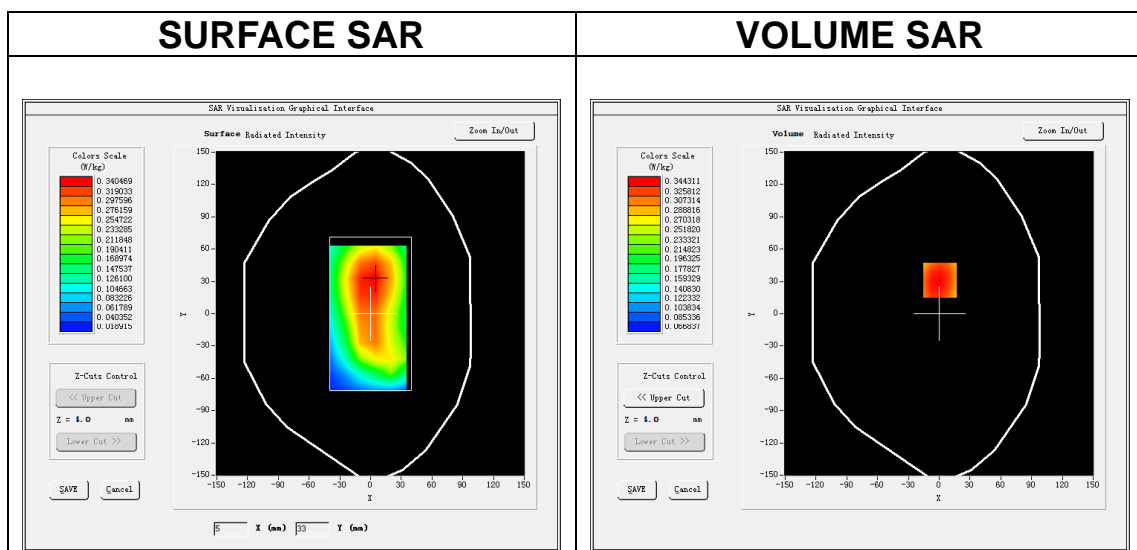
Date of measurement: 3/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

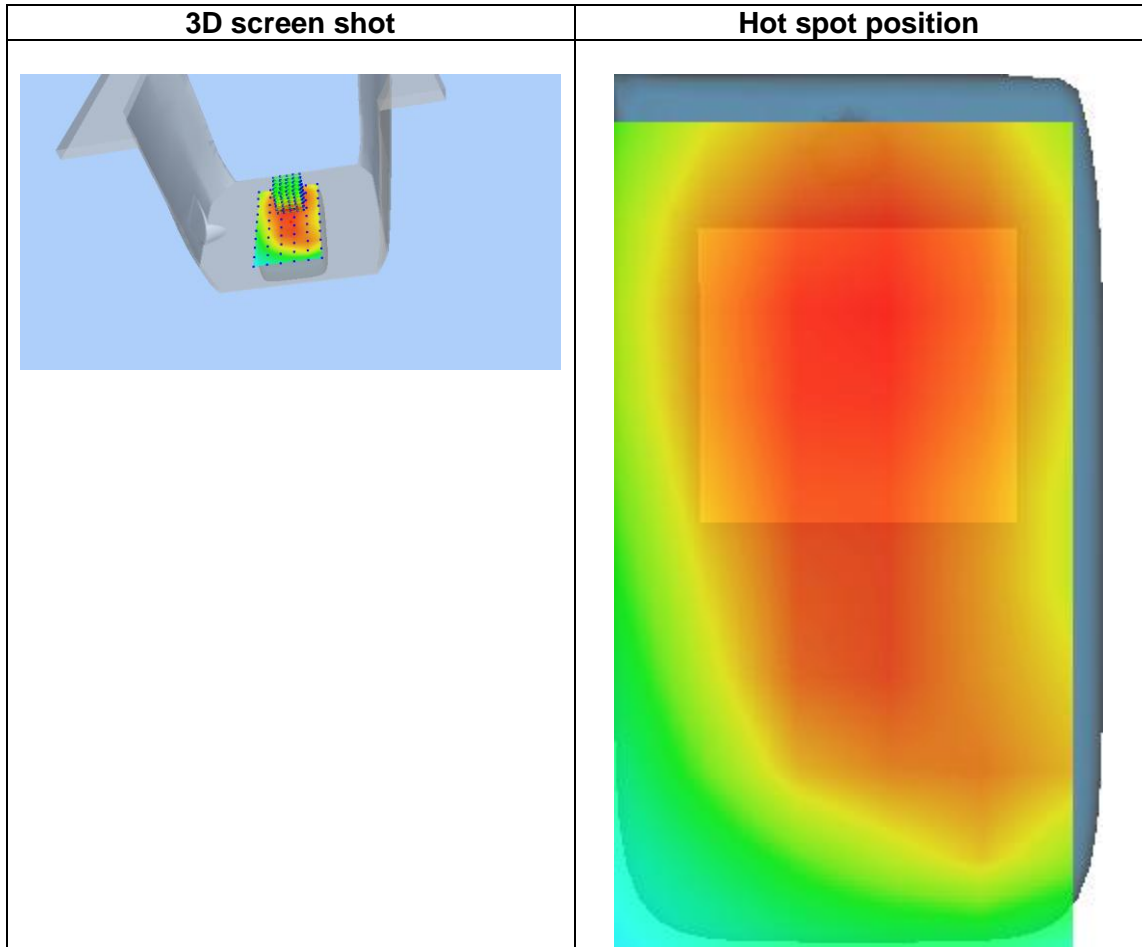
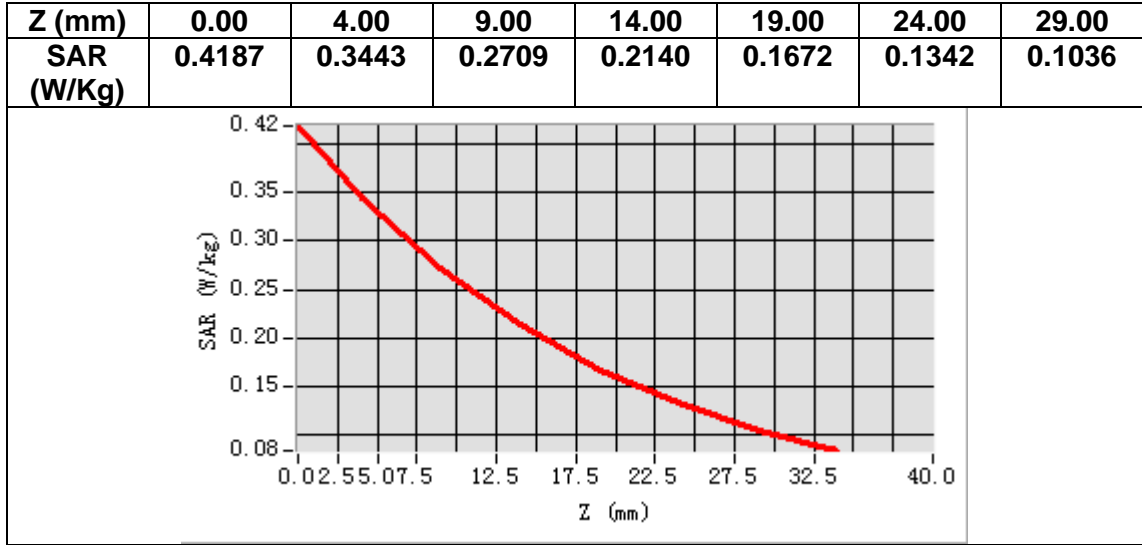
Frequency (MHz)	836.500000
Relative permittivity (real part)	54.673500
Relative permittivity (imaginary part)	21.097000
Conductivity (S/m)	0.980424
Variation (%)	-0.170000



Maximum location: X=1.00, Y=31.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.255273
SAR 1g (W/Kg)	0.339097



MEASUREMENT 21

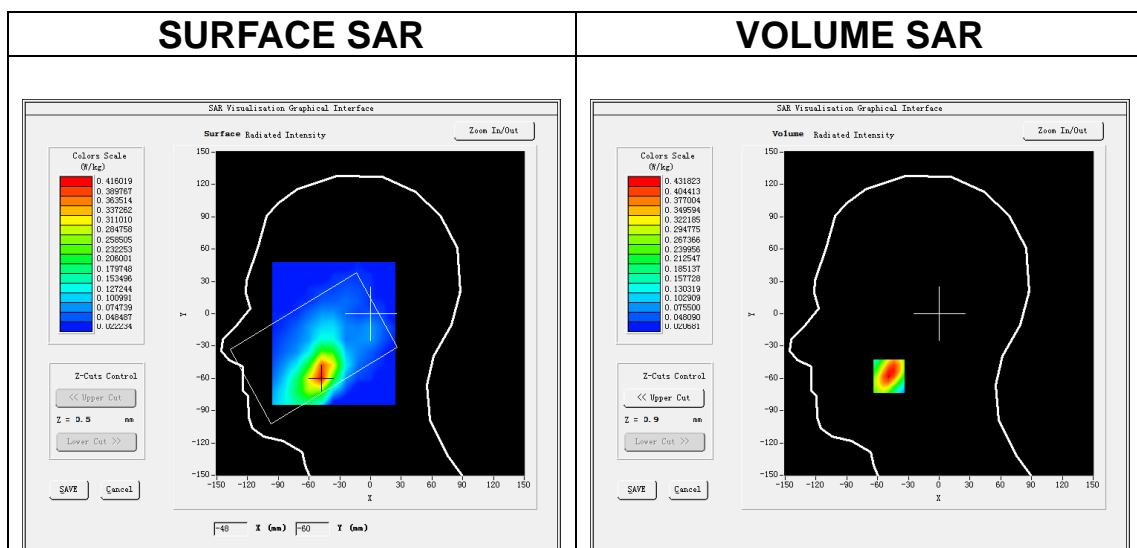
Date of measurement: 5/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.592487
Relative permittivity (imaginary part)	13.801160
Conductivity (S/m)	1.943663
Variation (%)	-0.380000

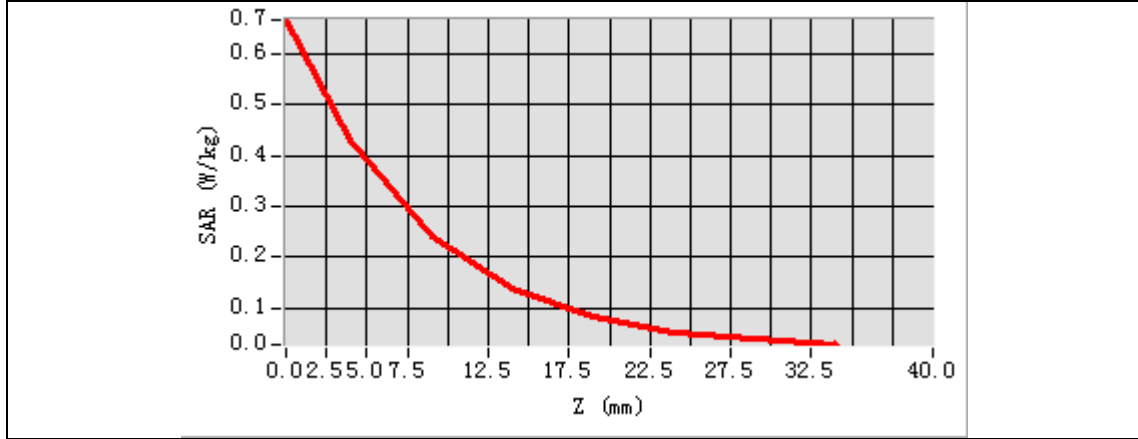


Maximum location: X=-49.00, Y=-58.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.221020
SAR 1g (W/Kg)	0.410081

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6676	0.4318	0.2428	0.1389	0.0822	0.0539	0.0395



3D screen shot	Hot spot position

MEASUREMENT 22

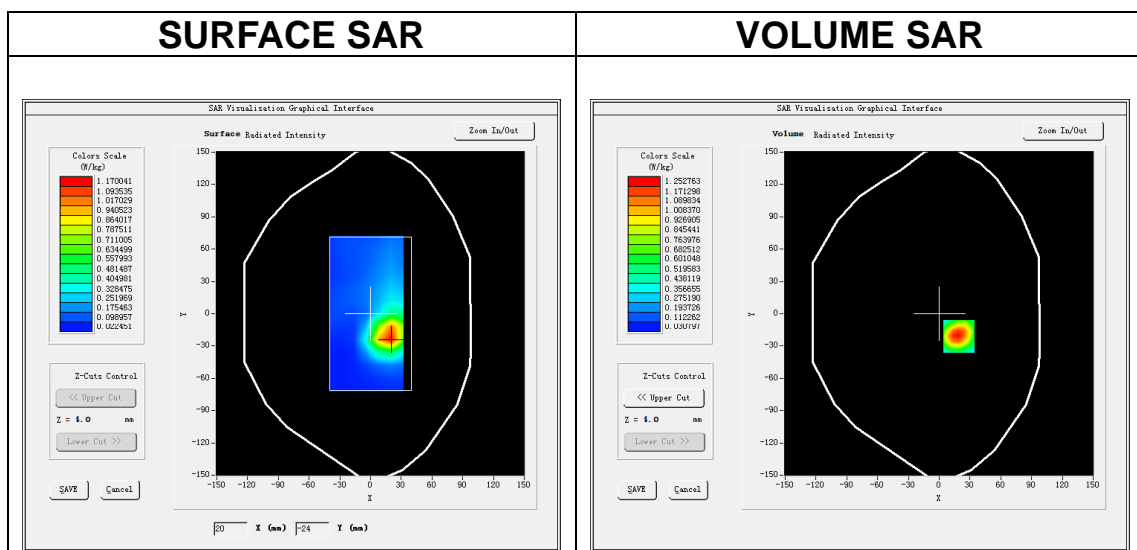
Date of measurement: 7/11/2020

A. Experimental conditions.

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

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 (%)	-2.300000

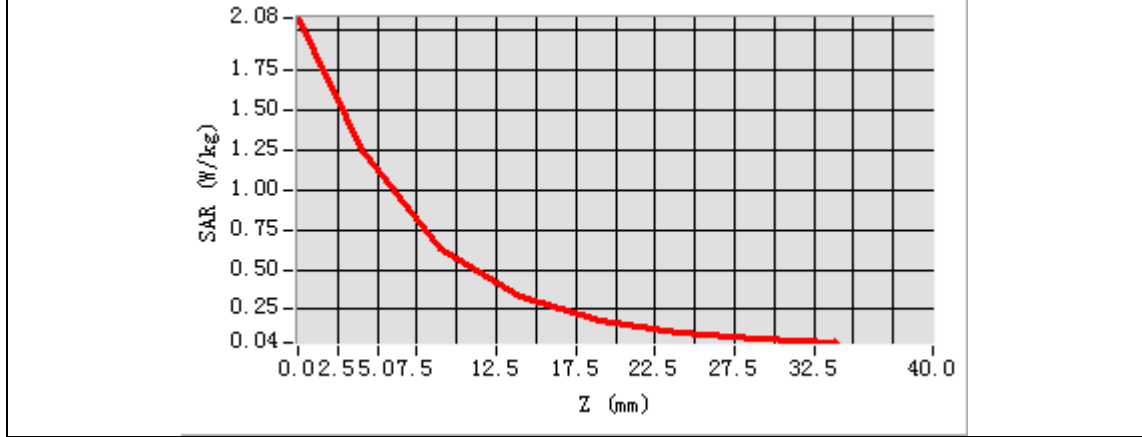


Maximum location: X=19.00, Y=-21.00

SAR Peak: 2.08 W/kg

SAR 10g (W/Kg)	0.584149
SAR 1g (W/Kg)	1.087546

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0795	1.2528	0.6341	0.3288	0.1757	0.1010	0.0630



3D screen shot	Hot spot position

MEASUREMENT 23

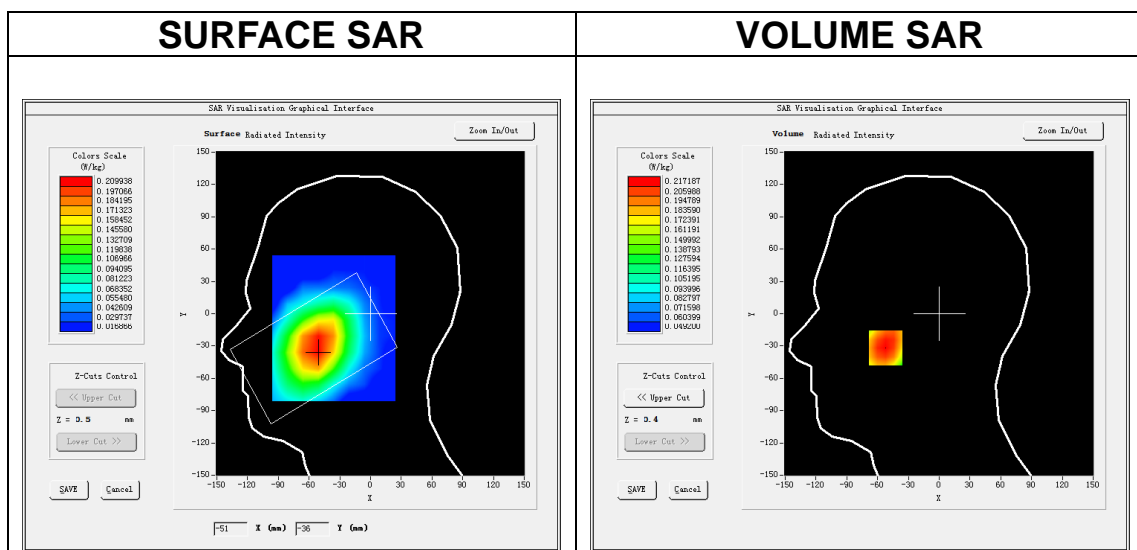
Date of measurement: 2/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

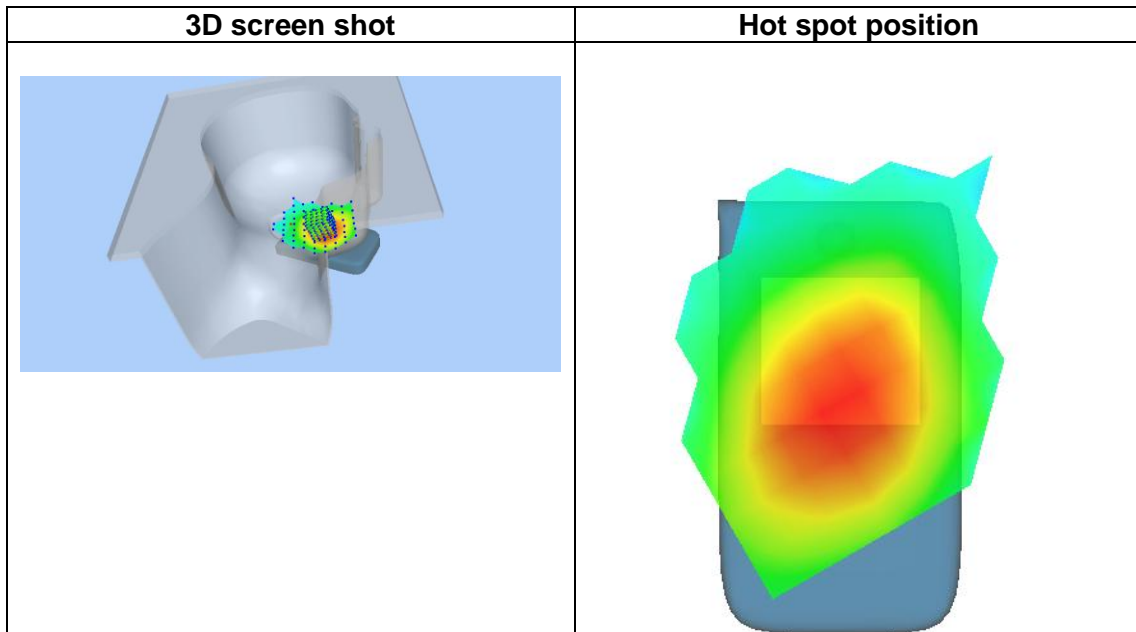
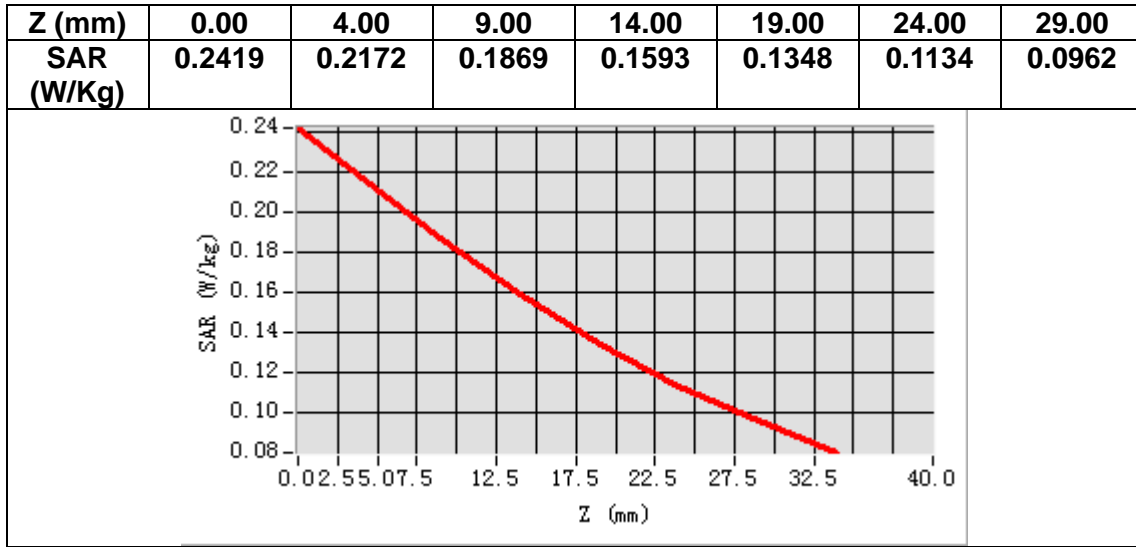
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.380192
Relative permittivity (imaginary part)	21.573252
Conductivity (S/m)	0.847949
Variation (%)	0.240000



Maximum location: X=-52.00, Y=-32.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.171704
SAR 1g (W/Kg)	0.211503



MEASUREMENT 24

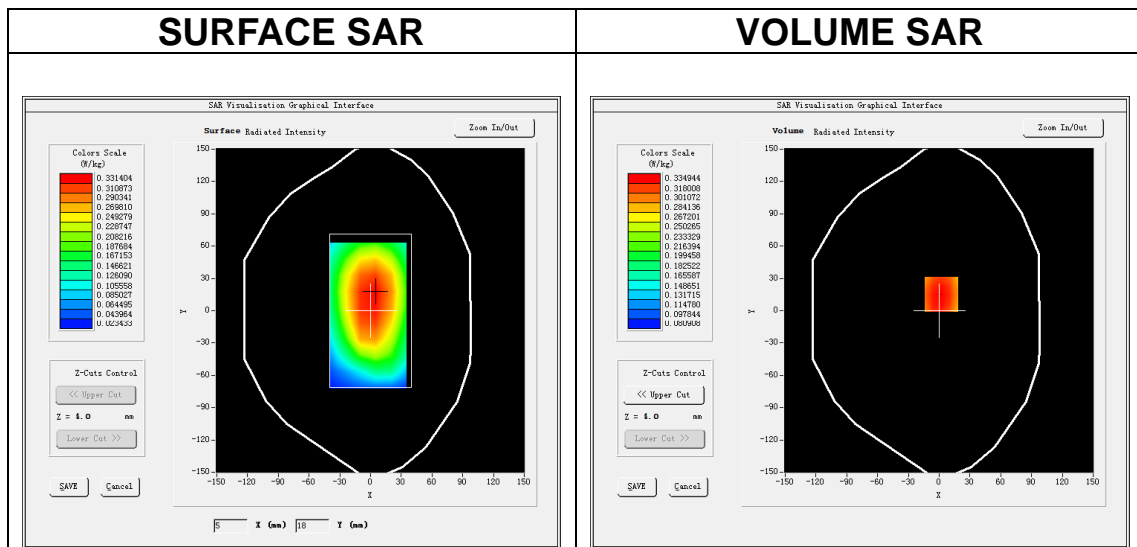
Date of measurement: 2/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

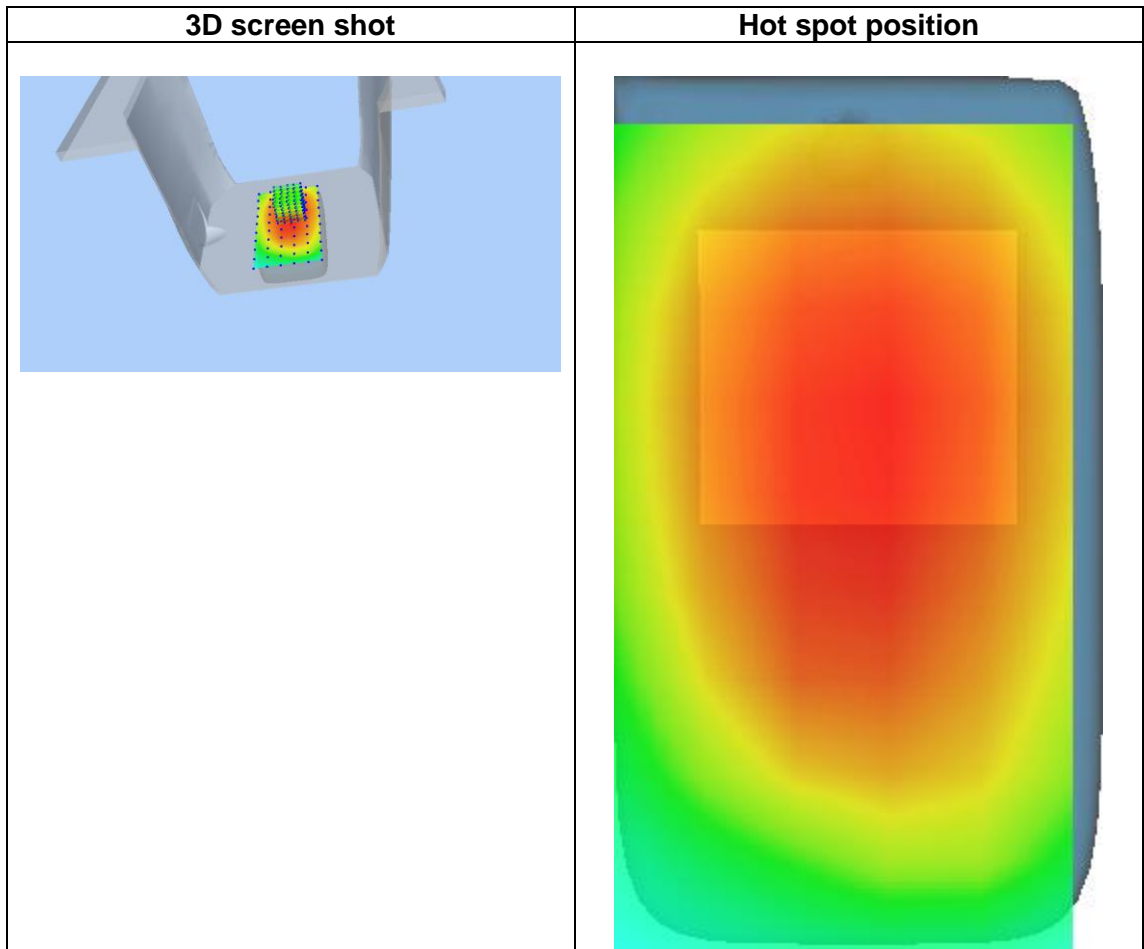
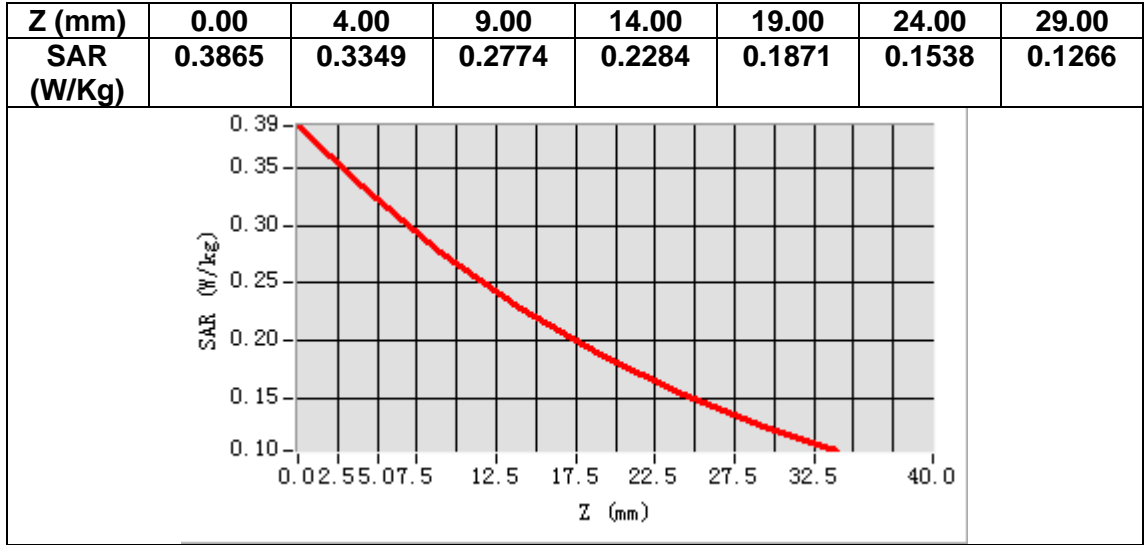
Frequency (MHz)	707.500000
Relative permittivity (real part)	55.751659
Relative permittivity (imaginary part)	23.480850
Conductivity (S/m)	0.922928
Variation (%)	0.130000



Maximum location: X=2.00, Y=15.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.259444
SAR 1g (W/Kg)	0.326009



MEASUREMENT 25

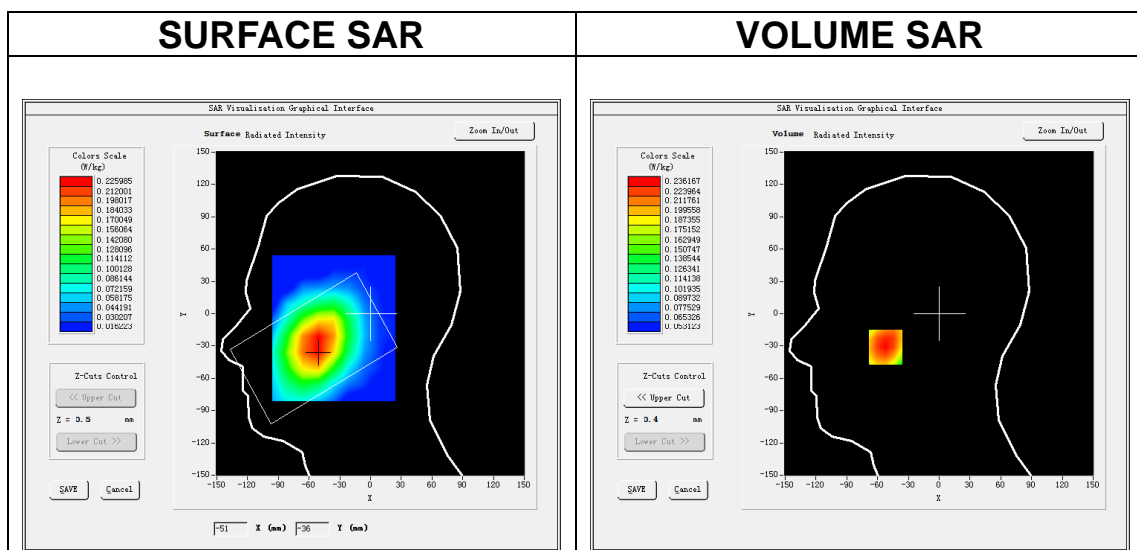
Date of measurement: 2/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

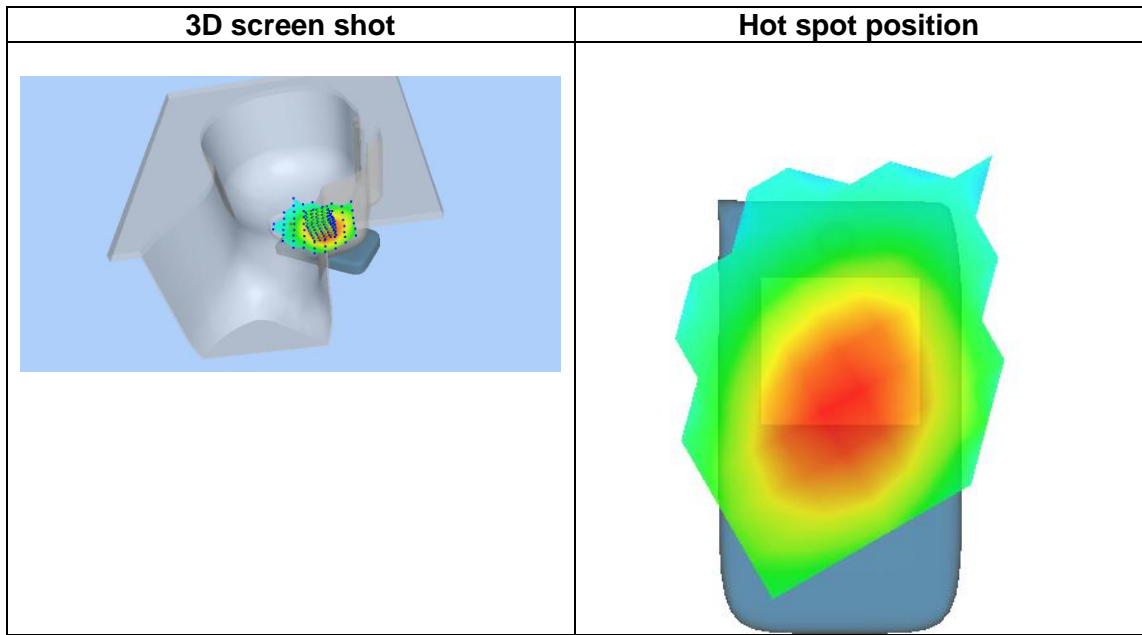
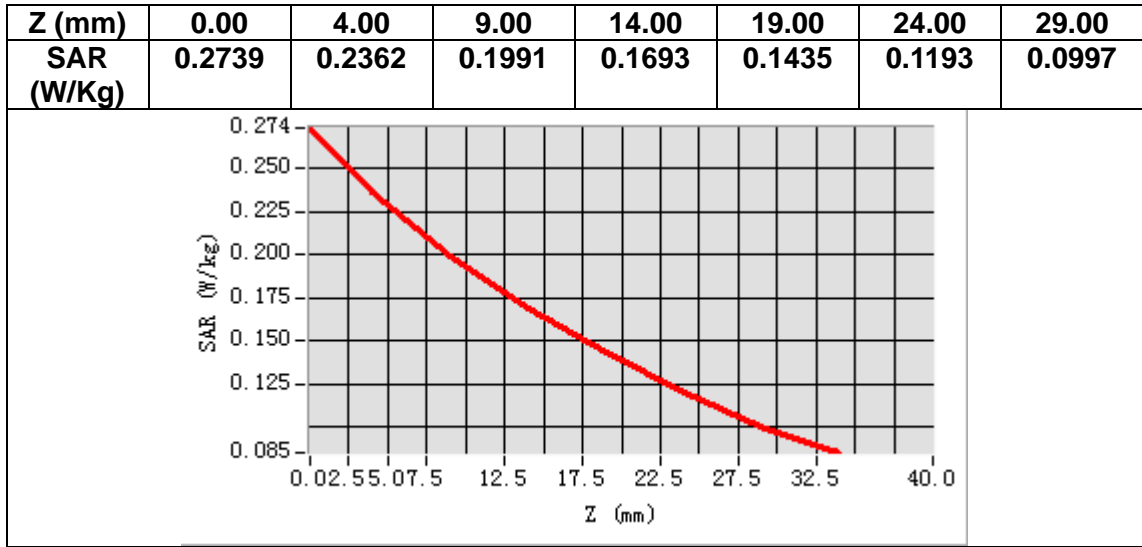
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.358940
Relative permittivity (imaginary part)	21.601650
Conductivity (S/m)	0.852065
Variation (%)	1.580000



Maximum location: X=-52.00, Y=-31.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.185043
SAR 1g (W/Kg)	0.230792



MEASUREMENT 26

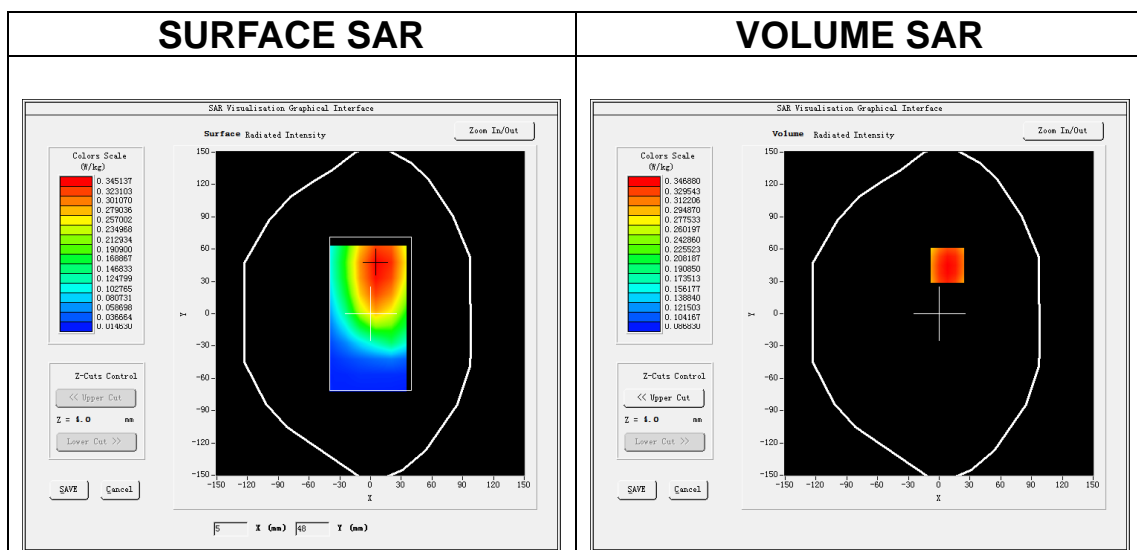
Date of measurement: 2/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

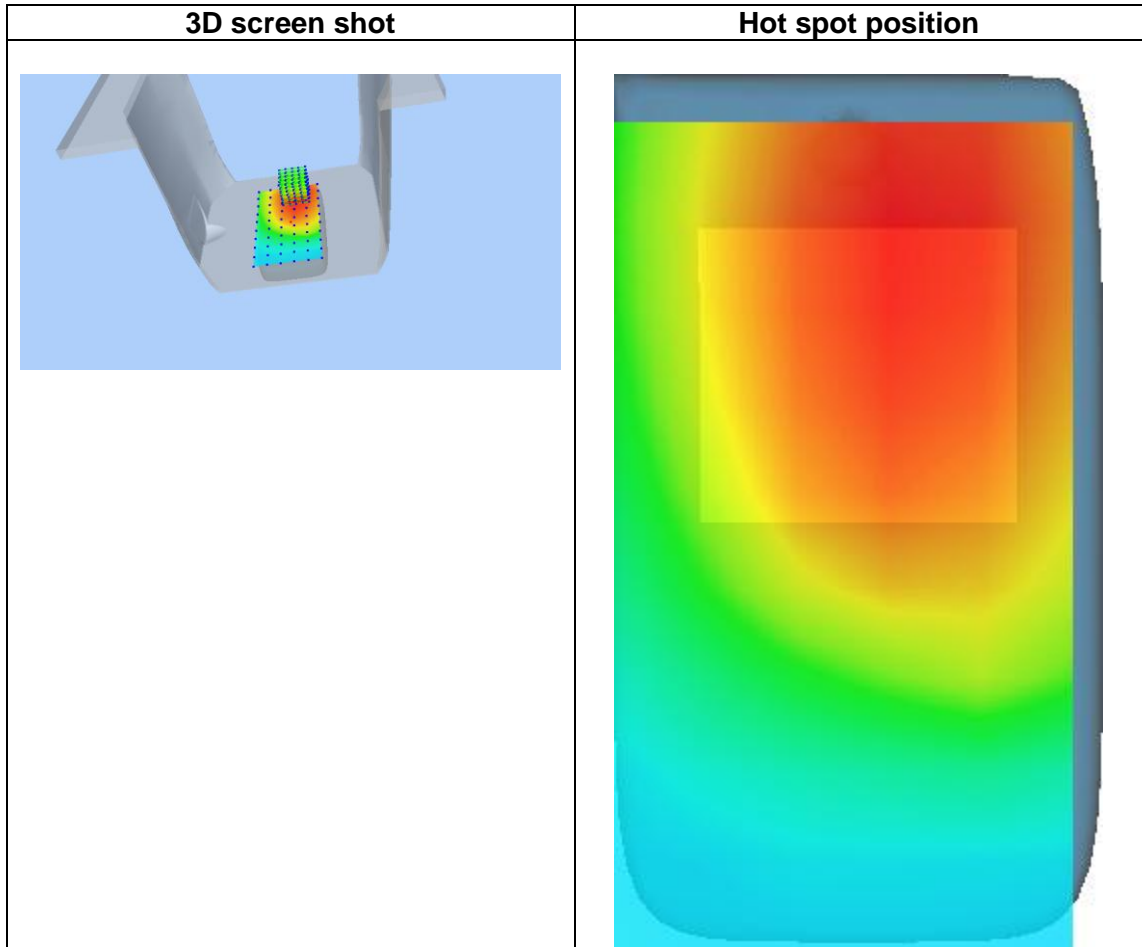
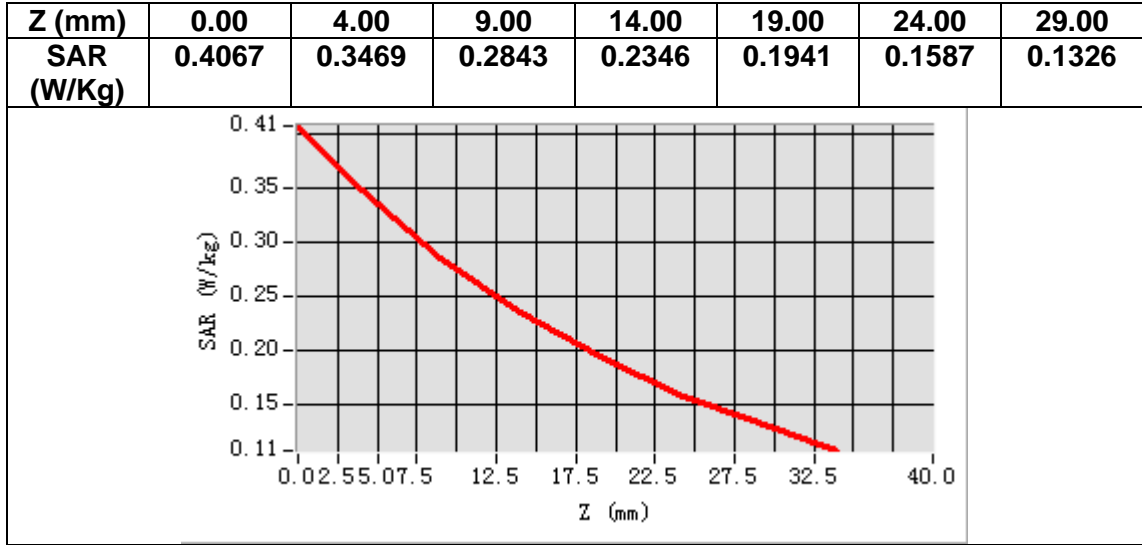
Frequency (MHz)	710.000000
Relative permittivity (real part)	55.773762
Relative permittivity (imaginary part)	23.409500
Conductivity (S/m)	0.923375
Variation (%)	-0.300000



Maximum location: X=8.00, Y=45.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.268574
SAR 1g (W/Kg)	0.339523



14. Appendix D. Calibration Certificate

Table of contents
E Field Probe - SN 08/16 EPGO287
750 MHz Dipole - SN 03/15 DIP 0G750-355
835 MHz Dipole - SN 03/15 DIP 0G835-347
1800 MHz Dipole - SN 03/15 DIP 1G800-349
1900 MHz Dipole - SN 03/15 DIP 1G900-350
2450 MHz Dipole - SN 03/15 DIP 2G450-352
2600 MHz Dipole - SN 03/15 DIP 2G600-356
5000-6000 MHz Dipole - SN 13/14 WGA 33
Extended Calibration Certificate



COMOSAR E-Field Probe Calibration Report

Ref : ACR.260.1.18.SATU.A

**SHENZHEN NTEK TESTING TECHNOLOGY
CO., LTD.**

**BUILDING E, FENDA SCIENCE PARK, SANWEI
COMMUNITY, XIXIANG STREET,
BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA
MVG COMOSAR DOSIMETRIC E-FIELD PROBE**

SERIAL NO.: SN 08/16 EPGO287

Calibrated at MVG US

2105 Barrett Park Dr. - Kennesaw, GA 30144



Calibration Date: 12/27/2019

Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed in MVG USA using the CALISAR / CALIBAIR test bench, for use with a COMOSAR system only. All calibration results are traceable to national metrology institutions.