

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 : OUKITEL

Model Name : WP10

Family Model : N/A

Report No. : S20121001302001

FCC ID : 2ANMU-WP10

Prepared for

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TEST RESULT CERTIFICATION

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Address.....: DAFU INDUSTRIAL ZONE, AOBEI COMMUNITY, GUANLAN,
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Product description

Product name.....: Smart Phone
Trademark: OUKITEL
Model Name: WP10
Family Model.....: N/A
 FCC 47 CFR Part 2(2.1093)
 ANSI/IEEE C95.1-1992

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

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

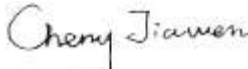
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Date of Test

Date (s) of performance of tests..... : Dec. 14, 2020 ~ Dec. 22, 2020

Date of Issue : Jan. 15, 2021

Test Result : **Pass**

Prepared By : 
 (Test Engineer) : _____
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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jan. 15, 2021	Cheng Jiawen

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1. General Information

1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

General Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

NOTE
 HEAD AND TRUNK LIMIT
 1.6 W/kg
 APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for WP10 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.223	0.300	1.103	0.030
1-g Body-Worn (Separation distance of 5mm)		0.851	0.079	0.409	0.071
1-g Hotspot (Separation distance of 5mm)		0.851	0.079	0.409	0.071
Max Simultaneous Tx	Head	1.326	0.523	1.326	0.253
	Body-Worn	1.260	0.930	1.260	0.922
	Hotspot	1.260	0.930	1.260	0.922

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	OUKITEL
Model Name	WP10
Family Model	N/A
FCC ID	2ANMU-WP10
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	FPC Antenna
Battery Information	DC 3.85V, 8000mAh
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/17, NR Band n5/n41, WLAN 2.4G/5G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), NR(DFT-s-OFDM: Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM / CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK), NFC(ASK)
Device Class	B

Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	NR Band n5	824-849	869-894
	NR Band n41	2496-2690	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.3G	5260-5320	
	WLAN 5.6G	5500-5700	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
NFC	13.56		
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EDGE Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
NR architecture	<input checked="" type="checkbox"/> SA; <input type="checkbox"/> NSA		
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)		
	3, tested with power control all Max.(NR Band n5)		

3, tested with power control all Max.(NR Band 41)

1.4. Test specification(s)

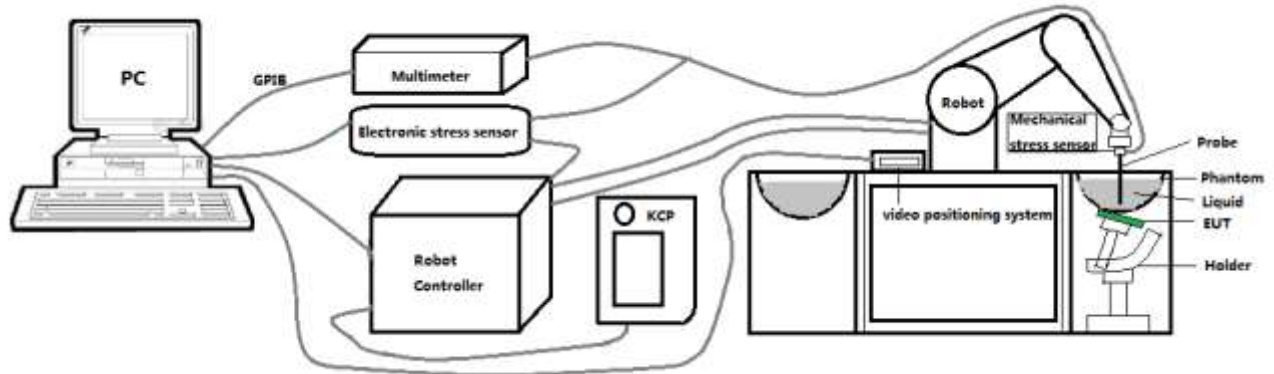
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 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 41/18 EPGO330 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: ± 0.10 dB
 - Axial isotropy: 0.06 dB
 - Hemispherical Isotropy: 0.09 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 9mW/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

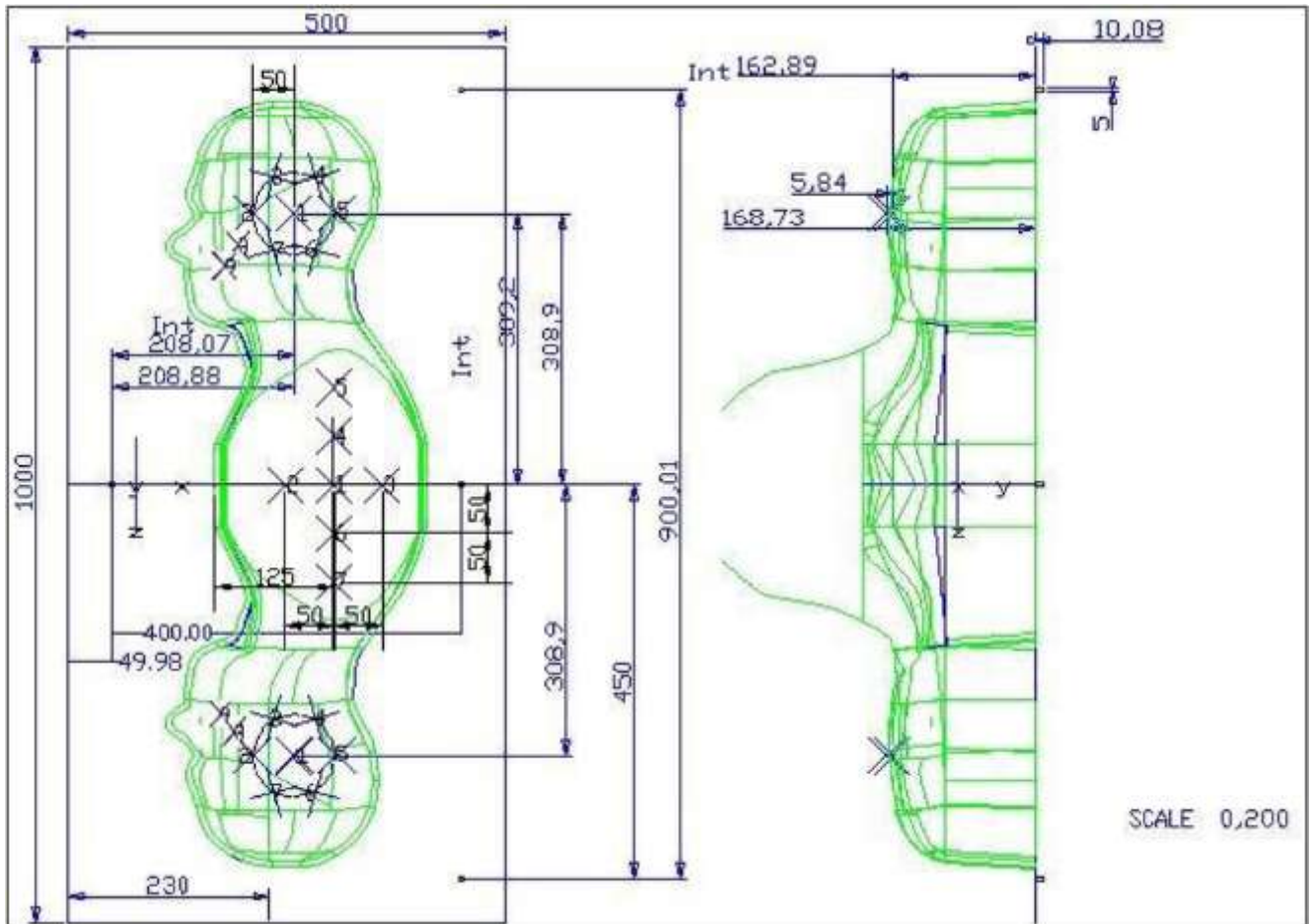
Photo of SAM phantom SN 16/15 SAM119



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

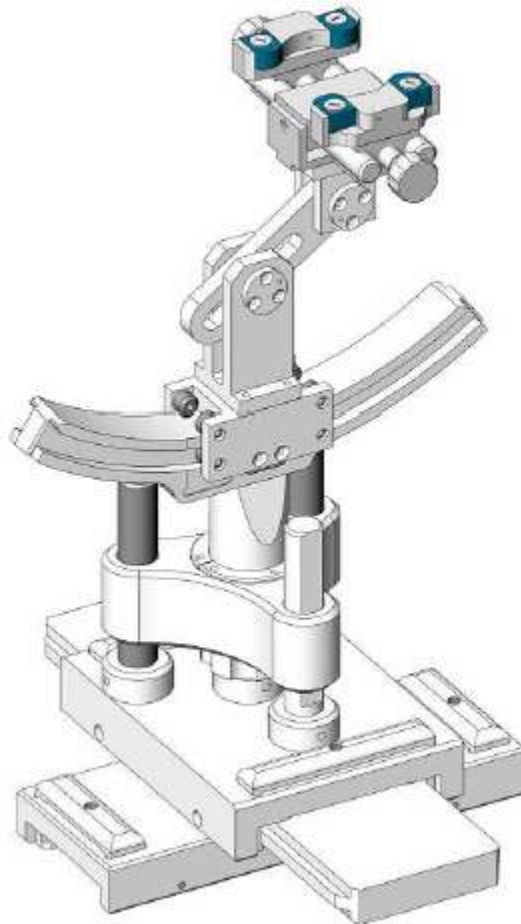


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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 41/18 EPGO330	Sep. 21, 2020	Sep. 20, 2021
<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
<input checked="" type="checkbox"/>	Anritsu	Radio Communication Analyzer	MT8821C	SN 6262186364	Oct. 13, 2020	Oct. 12, 2021
<input checked="" type="checkbox"/>	Anritsu	Radio Communication Test Station	MT8000A	SN 6262192315	Oct. 13, 2020	Oct. 12, 2021

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
		$\Delta z_{Zoom}(n>1)$: 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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> 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 using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

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

3.4. Volumetric Scan

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

3.5. Power Drift

All SAR testing is under the EUT install 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.

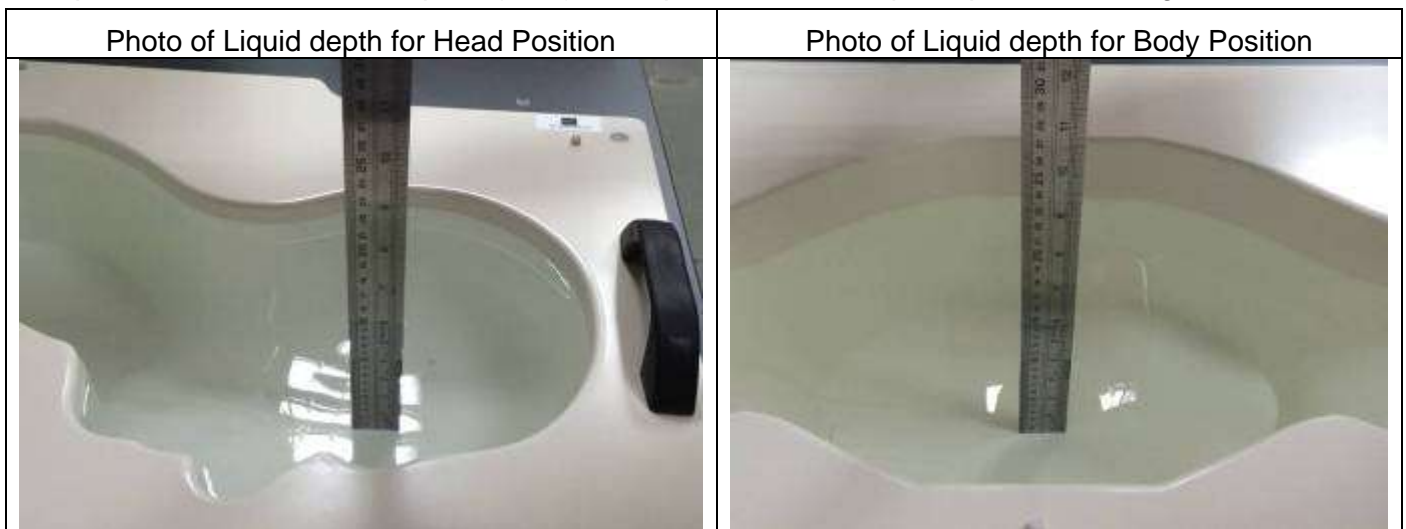
4. System Verification Procedure

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.

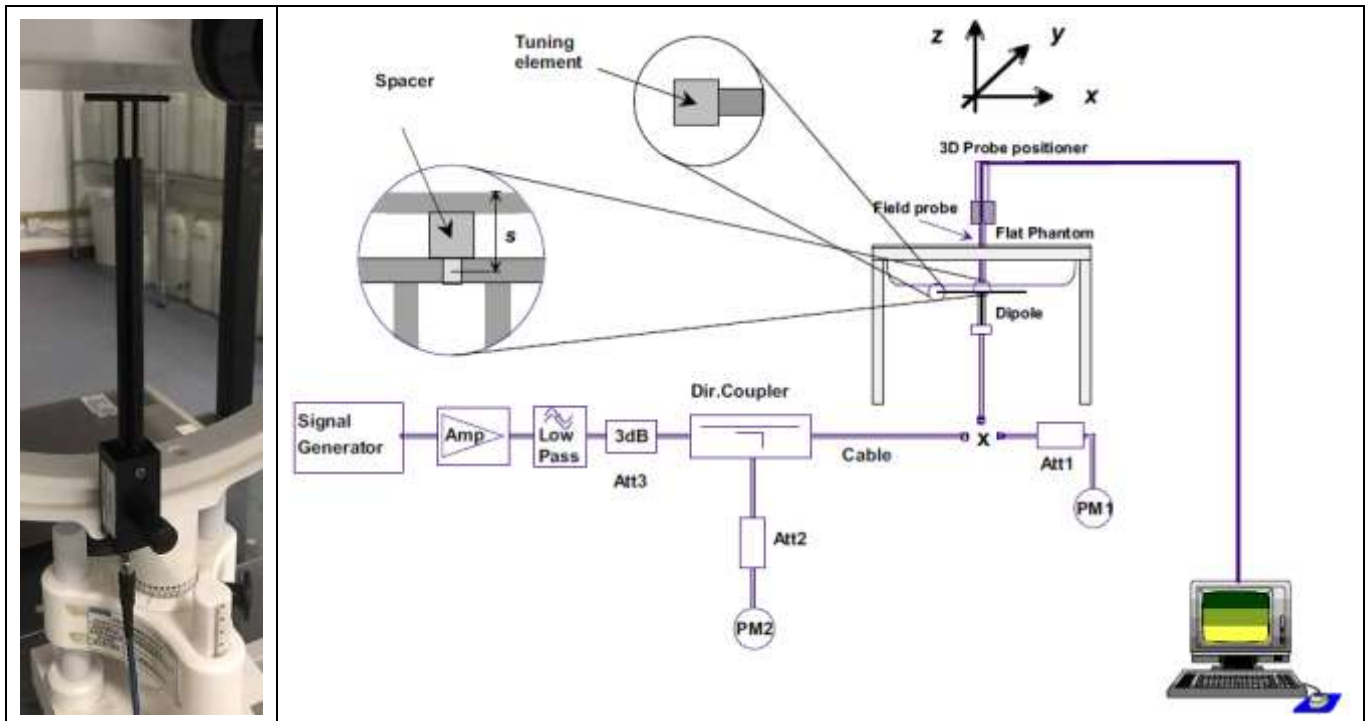
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	42.29	0.92	21.5 °C	Dec. 18, 2020
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.59	0.91	21.5 °C	Dec. 21, 2020
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.37	1.41	21.7 °C	Dec. 14, 2020
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.13	1.43	21.5 °C	Dec. 22, 2020
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	39.17	1.85	21.5 °C	Dec. 15, 2020
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.73	2.01	21.4 °C	Dec. 16, 2020
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.61	4.65	21.5 °C	Dec. 16, 2020
Head 5400	5400	35.80 (34.01~37.59)	4.86 (4.62~5.10)	35.94	4.96	21.8 °C	Dec. 17, 2020
Head 5600	5600	35.50 (33.73~37.28)	5.07 (4.82~5.32)	35.89	5.13	21.6 °C	Dec. 17, 2020
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.07	5.32	21.9 °C	Dec. 18, 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)	8.55	5.55	21.5 °C	Dec. 18, 2020
835MHz Head	9.55 (8.60~10.51)	6.10 (5.49~6.71)	9.62	5.89	21.5 °C	Dec. 21, 2020
1800MHz Head	38.11 (34.30~41.92)	20.05 (18.05~22.06)	36.67	18.65	21.7 °C	Dec. 14, 2020
1900MHz Head	38.92 (35.03~42.81)	20.09 (18.08~22.10)	38.19	19.03	21.5 °C	Dec. 22, 2020
2450MHz Head	53.76 (48.38~59.14)	24.12 (21.71~26.53)	56.30	24.85	21.5 °C	Dec. 15, 2020
2600MHz Head	55.60 (50.04~61.16)	24.60 (22.14~27.06)	59.94	23.99	21.4 °C	Dec. 16, 2020
5200MHz Head	160.94 (144.85~177.03)	55.97 (50.37~61.57)	155.92	56.03	21.5 °C	Dec. 16, 2020
5400MHz Head	170.60 (153.54~187.66)	58.93 (53.04~64.82)	174.32	59.48	21.8 °C	Dec. 17, 2020
5600MHz Head	175.02 (157.52~192.52)	59.90 (53.91~65.89)	177.60	57.03	21.6 °C	Dec. 17, 2020
5800MHz Head	184.13 (165.72~202.54)	62.74 (56.47~69.01)	186.33	62.20	21.9 °C	Dec. 18, 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.

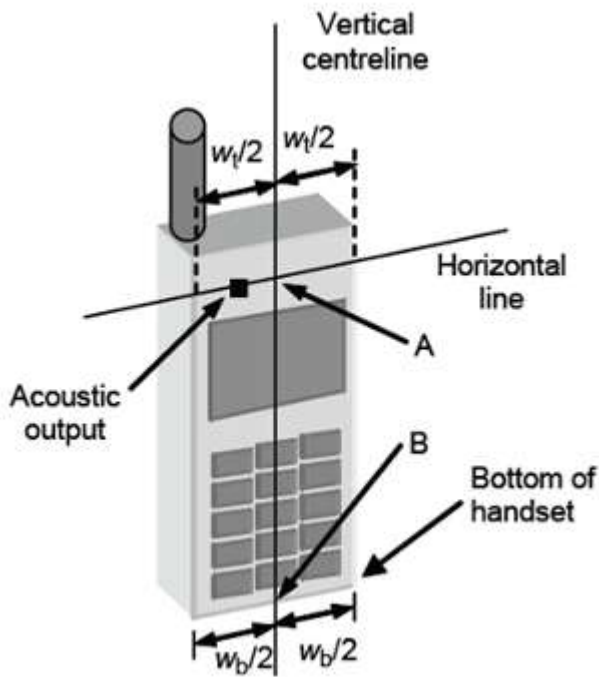


Fig 6.2.1 Handset vertical and horizontal reference lines—“fixed case”

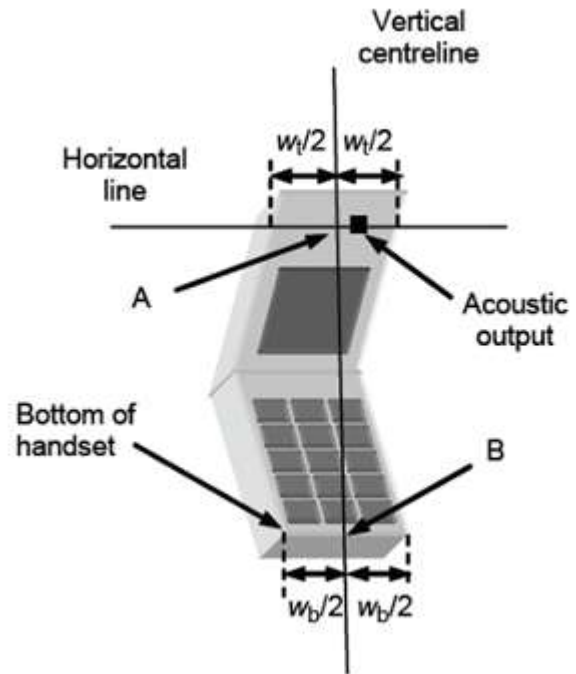


Fig 6.2.2 Handset vertical and horizontal reference lines— “clam-shell case”

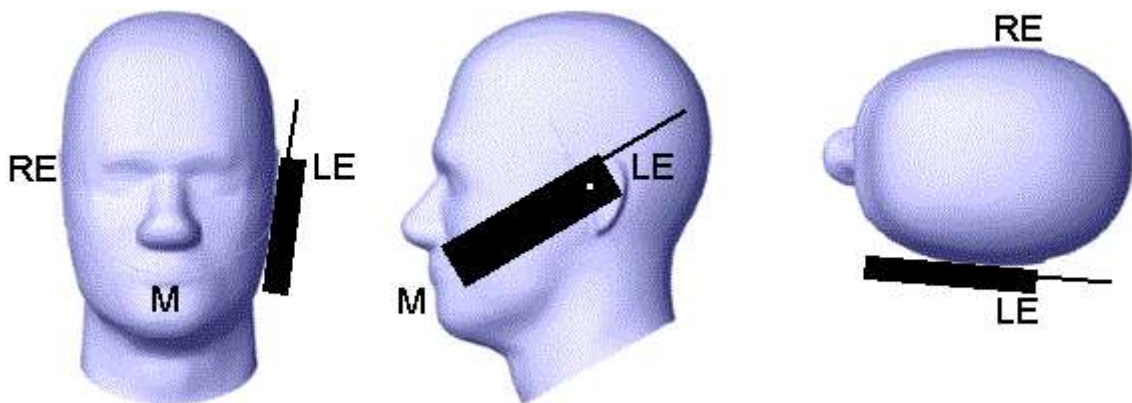


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

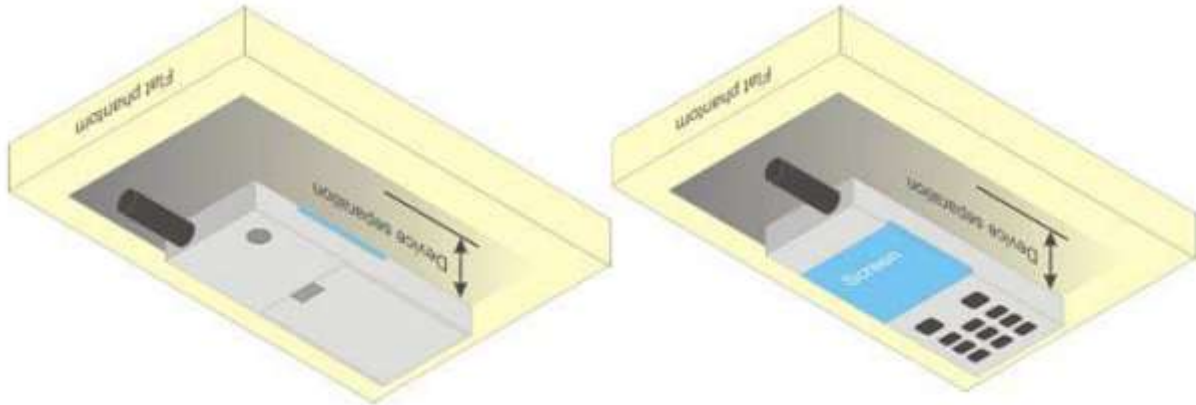


Figure 6.4.1 – Test positions for body-worn devices

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.

The SAR testing used a separation distance of 5mm, the UMPC mini-tablets is not required. The hotspot mode is applies, 10-g extremity SAR is not required only for the surfaces and edges with hotspot mode 1-g reported SAR < 1.2 W/kg.

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	190	251	Tune-up	128	190	251
Frequency (MHz)	(dBm)	824.2	836.6	848.8	(dBm)	824.2	836.6	848.8
GSM (GMSK)	33.00	32.61	32.49	32.35	23.97	23.58	23.46	23.32
GPRS(GMSK, 1 TS)	33.00	32.60	32.49	32.35	23.97	23.57	23.46	23.32
GPRS(GMSK, 2 TS)	32.00	31.61	31.47	31.30	25.98	25.59	25.45	25.28
GPRS(GMSK, 3 TS)	29.50	29.42	29.27	29.06	25.24	25.16	25.01	24.80
GPRS(GMSK, 4 TS)	28.50	28.33	28.17	27.96	25.49	25.32	25.16	24.95
EDGE(GMSK, 1 TS)	26.50	26.10	26.17	26.08	17.47	17.07	17.14	17.05
EDGE(GMSK, 2 TS)	25.50	24.79	25.19	24.96	19.48	18.77	19.17	18.94
EDGE(GMSK, 3 TS)	23.50	23.12	22.94	22.48	19.24	18.86	18.68	18.22
EDGE(GMSK, 4 TS)	22.50	22.01	21.58	21.81	19.49	19.00	18.57	18.80
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880.0	1909.8	(dBm)	1850.2	1880.0	1909.8
GSM (GMSK)	29.50	29.07	29.06	29.02	20.47	20.04	20.03	19.99
GPRS(GMSK, 1 TS)	29.50	29.01	28.99	28.97	20.47	19.98	19.96	19.94
GPRS(GMSK, 2 TS)	28.50	28.19	28.26	28.25	22.48	22.17	22.24	22.23
GPRS(GMSK, 3 TS)	27.00	26.34	26.56	26.51	22.74	22.08	22.30	22.25
GPRS(GMSK, 4 TS)	26.00	25.34	25.54	25.47	22.99	22.33	22.53	22.46
EDGE(GMSK, 1 TS)	26.00	25.72	25.99	25.46	16.97	16.69	16.96	16.43
EDGE(GMSK, 2 TS)	25.00	24.75	24.81	24.93	18.98	18.73	18.79	18.91
EDGE(GMSK, 3 TS)	23.00	22.43	22.52	22.56	18.74	18.17	18.26	18.30
EDGE(GMSK, 4 TS)	22.50	21.52	22.12	21.49	19.49	18.51	19.11	18.48

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	22.40	22.54	22.61
HSDPA Subtest-1	22.00	21.36	21.51	21.60
HSDPA Subtest-2	21.50	20.87	21.20	21.18
HSDPA Subtest-3	20.50	19.48	20.23	20.22
HSDPA Subtest-4	20.50	19.96	19.90	20.01
HSUPA Subtest-1	21.50	21.16	21.28	21.35
HSUPA Subtest-2	21.50	21.30	21.32	21.49
HSUPA Subtest-3	20.50	20.09	20.21	20.32
HSUPA Subtest-4	22.00	21.37	21.49	21.59
HSUPA Subtest-5	21.00	20.65	20.77	20.67
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1450	1513
Frequency (MHz)		1712.4	1740	1752.6
RMC 12.2Kbps	23.00	22.54	22.62	22.63
HSDPA Subtest-1	21.50	21.41	21.28	21.39
HSDPA Subtest-2	21.00	20.98	20.82	20.98
HSDPA Subtest-3	20.50	20.05	19.35	19.63
HSDPA Subtest-4	20.50	20.06	19.48	19.61
HSUPA Subtest-1	21.50	20.43	21.06	21.20
HSUPA Subtest-2	21.50	21.32	21.08	21.19
HSUPA Subtest-3	20.50	19.74	19.98	20.12
HSUPA Subtest-4	21.50	21.42	21.29	21.37
HSUPA Subtest-5	21.00	19.96	20.65	20.59
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC 12.2Kbps	23.50	23.06	22.96	22.33
HSDPA Subtest-1	22.00	22.00	21.93	21.84
HSDPA Subtest-2	22.00	21.68	21.55	21.43
HSDPA Subtest-3	21.00	20.55	20.42	19.98
HSDPA Subtest-4	20.50	20.47	20.35	20.36
HSUPA Subtest-1	22.00	21.66	21.75	21.63
HSUPA Subtest-2	22.00	21.97	21.82	21.73
HSUPA Subtest-3	21.00	20.03	20.54	20.53

HSUPA Subtest-4	22.50	22.02	21.94	21.82
HSUPA Subtest-5	21.50	20.50	21.20	20.93

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	22.50	22.08	21.94	22.17
			1	2	22.50	22.07	21.95	22.19
			1	5	22.50	22.04	21.94	22.15
			3	0	22.50	21.79	22.00	22.04
			3	1	22.50	21.80	22.03	22.05
			3	2	22.50	21.82	21.95	22.00
		16QAM	6	0	21.50	20.82	20.96	21.02
			1	0	21.50	21.04	21.22	21.22
			1	2	21.50	21.05	21.20	21.21
			1	5	21.50	21.02	21.22	21.23
			3	0	21.50	21.05	21.20	21.22
			3	1	21.50	21.05	21.18	21.23
			3	2	21.50	21.03	21.17	21.21
			6	0	20.50	20.01	20.12	20.21
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	22.50	20.79	22.00	21.96
			1	7	22.50	21.87	21.96	22.00
			1	14	22.50	21.86	21.92	22.00
			8	0	21.00	20.84	20.94	20.93
			8	4	21.00	20.80	20.95	20.96
			8	7	21.00	20.81	20.92	20.94
			15	0	21.00	20.80	20.89	20.97
		16QAM	1	0	22.00	20.82	21.45	21.23
			1	7	22.00	20.80	21.51	21.28
			1	14	22.00	20.73	21.42	21.25
			8	0	20.50	19.84	19.97	20.04
			8	4	20.50	19.80	19.99	20.00
			8	7	20.50	19.76	19.93	20.01
			15	0	20.00	19.85	19.92	19.94
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	22.50	21.97	22.07	22.06
			1	12	22.50	21.99	22.04	22.12
			1	24	22.50	21.91	21.99	22.10
			12	0	21.50	20.89	20.98	21.04
			12	6	21.50	20.83	20.97	21.04

			12	11	21.50	20.77	20.97	20.97
			25	0	21.00	20.84	20.97	21.00
		16QAM	1	0	21.50	21.39	21.42	21.33
			1	12	21.50	21.38	21.43	21.40
			1	24	21.50	21.28	21.44	21.39
			12	0	20.50	19.84	19.89	19.99
			12	6	20.50	19.79	19.89	20.02
			12	11	20.50	19.73	19.83	20.01
			25	0	20.00	19.80	19.96	19.99
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	22.50	21.92	22.07	21.93
			1	24	22.50	21.89	22.07	22.02
			1	49	22.50	21.83	22.03	22.05
			25	0	21.50	20.86	20.96	20.96
			25	12	21.50	20.82	20.97	21.00
			25	24	21.50	20.77	20.97	21.05
		16QAM	50	0	21.50	20.84	20.97	21.02
			1	0	21.50	20.80	21.46	21.13
			1	24	21.50	20.75	21.47	21.23
			1	49	21.50	20.66	21.40	21.24
			25	0	20.50	19.84	19.94	19.91
			25	12	20.50	19.77	19.98	19.98
			25	24	20.50	19.76	19.98	20.04
			50	0	20.00	19.77	19.93	19.98
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	22.50	21.66	21.90	21.77
			1	37	22.50	21.65	21.97	21.91
			1	74	22.50	21.61	21.85	21.85
			36	0	21.50	20.82	20.89	20.94
			36	18	21.50	20.74	20.96	20.98
			36	37	21.50	20.70	20.92	21.04
		16QAM	75	0	21.50	20.75	20.92	21.01
			1	0	21.50	21.29	21.11	21.02
			1	37	21.50	21.26	21.22	21.10
			1	74	21.50	21.19	21.05	21.13
			36	0	20.50	19.84	19.96	19.87
			36	18	20.50	19.76	20.03	19.93
			36	37	20.50	19.74	19.95	19.97
			75	0	20.00	19.74	19.87	19.99
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	22.50	21.71	21.84	21.88
			1	49	22.50	21.70	22.14	21.99
			1	99	22.50	21.75	21.80	22.16

			50	0	21.50	20.86	20.91	21.05
			50	24	21.50	20.80	21.01	20.99
			50	49	21.50	20.78	20.94	21.07
			100	0	21.50	20.80	20.92	21.06
		16QAM	1	0	22.00	21.23	21.12	21.12
			1	49	22.00	21.23	21.35	21.55
			1	99	22.00	21.20	21.08	21.27
			50	0	20.50	19.87	19.84	20.08
			50	24	20.50	19.80	19.91	20.00
			50	49	20.50	19.81	19.89	20.09
			100	0	20.50	19.79	19.86	20.02

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	22.50	21.04	22.01	22.09
			1	2	22.50	22.15	22.04	22.06
			1	5	22.50	22.06	21.99	22.06
			3	0	22.50	22.14	22.00	22.15
			3	1	22.50	22.16	22.01	22.17
			3	2	22.50	22.09	21.98	22.16
		16QAM	1	0	21.50	21.01	21.19	21.36
			1	2	21.50	21.03	21.21	21.33
			1	5	21.50	21.01	21.17	21.35
			3	0	21.50	21.21	21.17	21.32
			3	1	21.50	21.22	21.16	21.32
			3	2	21.50	21.21	21.15	21.30
			6	0	20.50	20.22	20.17	20.23

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	22.50	22.04	21.99	22.14
			1	7	22.50	22.05	22.03	22.20
			1	14	22.50	22.03	22.01	22.16
			8	0	21.50	21.06	20.99	21.10
			8	4	21.50	21.05	20.97	21.11
			8	7	21.50	21.04	20.97	21.09
			15	0	21.50	21.05	20.98	21.12
		16QAM	1	0	22.00	21.51	21.22	21.05
			1	7	22.00	21.58	21.26	21.10
			1	14	22.00	21.48	21.23	21.01
			8	0	20.50	20.09	19.98	20.13
			8	4	20.50	20.09	19.96	20.09
			8	7	20.50	20.07	19.96	20.06
			15	0	20.50	20.08	19.91	20.15

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	22.50	22.26	22.00	22.21
			1	12	22.50	22.25	22.11	22.22
			1	24	22.50	22.24	22.09	22.22
			12	0	21.50	21.09	21.03	21.14
			12	6	21.50	21.08	21.01	21.15
			12	11	21.50	21.04	21.06	21.05
			25	0	21.50	21.08	21.05	21.13
		16QAM	1	0	22.00	21.63	21.35	21.67
			1	12	22.00	21.62	21.42	21.65
			1	24	22.00	21.55	21.41	21.67
			12	0	20.50	20.02	20.01	20.11
			12	6	20.50	20.01	19.98	20.13
			12	11	20.50	19.96	20.05	20.07
			25	0	20.50	20.08	20.00	20.10
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	22.50	22.08	21.99	22.13
			1	24	22.50	22.13	22.07	22.17
			1	49	22.50	22.05	22.06	22.17
			25	0	21.50	21.14	21.02	21.07
			25	12	21.50	21.12	21.06	21.12
			25	24	21.50	21.02	21.07	21.13
			50	0	21.50	21.07	21.08	21.11
		16QAM	1	0	22.00	21.51	21.19	21.00
			1	24	22.00	21.54	21.27	21.02
			1	49	22.00	21.48	21.26	21.05
			25	0	20.50	20.11	20.01	20.06
			25	12	20.50	20.09	20.05	20.10
			25	24	20.50	20.02	20.08	20.10
			50	0	20.50	20.00	20.07	20.05
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	22.50	21.95	22.01	22.05
			1	37	22.50	22.02	22.09	22.12
			1	74	22.50	21.88	22.05	22.06
			36	0	21.50	21.11	20.97	21.05
			36	18	21.50	21.04	20.99	21.09
			36	37	21.50	20.93	21.07	21.11
			75	0	21.50	21.06	21.09	21.12
		16QAM	1	0	22.00	21.24	21.42	21.25
			1	37	22.00	21.27	21.53	21.40
			1	74	22.00	21.11	21.48	21.28
			36	0	20.50	20.05	20.00	20.14
			36	18	20.50	20.01	20.06	20.17
			36	37	20.50	19.92	20.11	20.11
			75	0	20.50	20.05	20.04	20.06
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	22.50	22.02	21.97	22.02
			1	49	22.50	22.05	22.13	22.19
			1	99	22.50	21.95	22.10	22.09
			50	0	21.50	21.19	21.08	20.99
			50	24	21.50	21.10	21.06	21.19
			50	49	21.50	20.91	21.20	21.11
			100	0	21.50	21.05	21.14	21.08
		16QAM	1	0	22.00	21.26	21.22	21.36
			1	49	22.00	21.29	21.38	21.63
			1	99	22.00	21.22	21.37	21.52
			50	0	20.50	20.14	20.10	20.01
			50	24	20.50	20.06	20.08	20.18
			50	49	20.50	19.85	20.20	20.17
			100	0	20.50	20.02	20.13	20.03

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	23.00	22.70	22.47	22.50
			1	2	23.00	22.74	22.50	22.46
			1	5	23.00	22.65	22.46	22.48
			3	0	23.00	22.61	22.54	22.52
			3	1	23.00	22.57	22.52	22.50
			3	2	23.00	22.59	22.49	22.52
			6	0	22.00	21.57	21.49	21.49
		16QAM	1	0	22.00	21.82	21.72	21.38
			1	2	22.00	21.81	21.70	21.40
			1	5	22.00	21.76	21.72	21.37
			3	0	22.00	21.81	21.74	21.60
			3	1	22.00	21.78	21.74	21.59
			3	2	22.00	21.79	21.70	21.61
			6	0	21.00	20.75	20.63	20.59

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.00	22.61	22.52	22.47
			1	7	23.00	22.63	22.54	22.45
			1	14	23.00	22.65	22.53	22.45
			8	0	22.00	21.59	21.48	21.44
			8	4	22.00	21.59	21.50	21.46
			8	7	22.00	21.60	21.51	21.44
			15	0	22.00	21.61	21.52	21.46
		16QAM	1	0	22.00	21.85	21.48	21.88
			1	7	22.00	21.86	21.43	21.91
			1	14	22.00	21.85	21.37	21.86
			8	0	21.00	20.62	20.46	20.46

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	21.00	20.59	20.48	20.48
			8	7	21.00	20.57	20.46	20.49
			15	0	21.00	20.56	20.57	20.51
			1	0	23.00	22.64	22.59	22.55
			1	12	23.00	22.60	22.56	22.52
			1	24	23.00	22.72	22.53	22.55
			12	0	22.00	21.57	21.54	21.49
		16QAM	12	6	22.00	21.57	21.51	21.47
			12	11	22.00	21.55	21.45	21.47
			25	0	22.00	21.59	21.52	21.48
			1	0	22.50	22.10	21.93	22.04
			1	12	22.50	22.03	21.89	22.01
			1	24	22.50	22.08	21.86	22.01
			12	0	21.00	20.54	20.52	20.44
			12	6	21.00	20.50	20.49	20.43
LTE Band 5	10MHz	QPSK	12	11	21.00	20.46	20.42	20.43
			25	0	21.00	20.61	20.49	20.45
			1	0	23.00	22.63	22.56	22.50
			1	24	23.00	22.75	22.53	22.52
			1	49	23.00	22.62	22.48	22.52
			25	0	22.00	21.65	21.54	21.53
			25	12	22.00	21.60	21.52	21.50
		16QAM	25	24	22.00	21.60	21.49	21.50
			50	0	22.00	21.64	21.56	21.56
			1	0	22.50	22.08	21.77	21.42
			1	24	22.50	22.12	21.70	21.39
			1	49	22.50	22.00	21.68	21.41
			25	0	21.00	20.64	20.54	20.52
			25	12	21.00	20.61	20.50	20.46
			25	24	21.00	20.63	20.49	20.50
LTE Band 5	5MHz	QPSK	50	0	21.00	20.63	20.58	20.56
			1	0	23.50	23.17	23.25	23.26
			1	12	23.50	23.13	23.25	23.33
			1	24	23.50	23.19	23.22	23.33
			12	0	22.50	22.06	22.16	22.23
			12	6	22.50	22.06	22.17	22.17
			12	11	22.50	22.08	22.08	22.18
		16QAM	25	0	22.50	22.08	22.12	22.18
			1	0	23.00	22.66	22.56	22.63

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	23.50	23.17	23.25	23.26
			1	12	23.50	23.13	23.25	23.33
			1	24	23.50	23.19	23.22	23.33
			12	0	22.50	22.06	22.16	22.23
			12	6	22.50	22.06	22.17	22.17
			12	11	22.50	22.08	22.08	22.18
			25	0	22.50	22.08	22.12	22.18
		16QAM	1	0	23.00	22.66	22.56	22.63

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	22.61	22.56	22.66
			1	24	23.00	22.64	22.55	22.67
			12	0	21.50	20.97	21.20	21.17
			12	6	21.50	20.97	21.17	21.16
			12	11	21.50	20.99	21.09	21.14
			25	0	21.50	21.13	21.08	21.18
LTE Band 7	10MHz	QPSK	1	0	23.50	23.12	23.16	23.26
			1	24	23.50	23.12	23.15	23.31
			1	49	23.50	23.19	23.16	23.34
			25	0	22.50	22.02	22.19	22.22
			25	12	22.50	22.07	22.21	22.19
			25	24	22.50	22.13	22.21	22.22
		16QAM	50	0	22.50	22.14	22.23	22.23
			1	0	23.00	22.29	22.14	22.55
			1	24	23.00	22.28	22.16	22.63
			1	49	23.00	22.35	22.17	22.64
			25	0	21.50	21.03	21.20	21.21
			25	12	21.50	21.09	21.20	21.22
			25	24	21.50	21.13	21.16	21.22
			50	0	21.50	21.08	21.18	21.19
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	23.50	22.96	23.20	23.07
			1	37	23.50	23.04	23.24	23.22
			1	74	23.50	23.03	23.20	23.19
			36	0	22.50	22.02	22.18	22.13
			36	18	22.50	22.06	22.16	22.17
			36	37	22.50	22.07	22.13	22.20
		16QAM	75	0	22.50	22.07	22.17	22.21
			1	0	23.00	22.25	22.54	22.28
			1	37	23.00	22.40	22.64	22.42
			1	74	23.00	22.29	22.57	22.38
			36	0	21.50	20.96	21.20	21.19
			36	18	21.50	21.00	21.21	21.26
			36	37	21.50	21.09	21.11	21.25
			75	0	21.50	21.11	21.14	21.17
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	23.50	23.00	23.12	23.12
			1	49	23.50	23.16	23.29	23.35
			1	99	23.50	23.16	23.20	23.21
			50	0	22.50	22.02	22.23	22.16
			50	24	22.50	22.10	22.26	22.23

	16QAM	50	49	22.50	22.15	22.16	22.22
		100	0	22.50	22.05	22.17	22.21
		1	0	23.00	22.28	22.27	22.58
		1	49	23.00	22.43	22.48	22.72
		1	99	23.00	22.34	22.41	22.72
		50	0	21.50	20.96	21.23	21.20
		50	24	21.50	21.05	21.26	21.28
		50	49	21.50	21.11	21.16	21.19
		100	0	21.50	21.03	21.11	21.19

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.00	21.59	22.65	22.50
			1	2	23.00	22.68	22.63	22.47
			1	5	23.00	22.60	22.57	22.48
			3	0	23.00	22.67	22.55	22.53
			3	1	23.00	22.64	22.58	22.58
			3	2	23.00	22.58	22.53	22.57
		16QAM	6	0	22.00	21.56	21.55	21.54
			1	0	22.00	21.52	21.69	21.75
			1	2	22.00	21.56	21.74	21.72
			1	5	22.00	21.51	21.74	21.79
			3	0	22.00	21.75	21.68	21.70
			3	1	22.00	21.76	21.76	21.76
			3	2	22.00	21.75	21.67	21.76
			6	0	21.00	20.70	20.68	20.66

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.00	22.59	22.67	22.57
			1	7	23.00	22.54	22.55	22.61
			1	14	23.00	22.55	22.55	22.57
			8	0	22.00	21.56	21.47	21.51
			8	4	22.00	21.57	21.53	21.48
			8	7	22.00	21.54	21.52	21.54
			15	0	22.00	21.54	21.55	21.53
		16QAM	1	0	22.50	22.02	21.77	21.48
			1	7	22.50	22.04	21.79	21.46
			1	14	22.50	22.03	21.70	21.43
			8	0	21.00	20.58	20.55	20.52
			8	4	21.00	20.59	20.55	20.50
			8	7	21.00	20.58	20.53	20.51
			15	0	21.00	20.59	20.51	20.56

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band	5MHz	QPSK	1	0	23.00	22.60	22.63	22.57
			1	12	23.00	22.62	22.63	22.59

12			1	24	23.00	22.65	22.64	22.57			
			12	0	22.00	21.60	21.62	21.52			
			12	6	22.00	21.59	21.53	21.49			
			12	11	22.00	21.60	21.54	21.45			
			25	0	22.00	21.62	21.57	21.54			
		16QAM	1	0	22.50	21.97	22.08	21.94			
			1	12	22.50	21.97	22.08	21.98			
			1	24	22.50	22.02	22.10	22.01			
			12	0	21.00	20.56	20.56	20.46			
			12	6	21.00	20.59	20.52	20.41			
			12	11	21.00	20.61	20.54	20.43			
			25	0	21.00	20.57	20.52	20.56			
			Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
						RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.00	22.67	22.57	22.51			
			1	24	23.00	22.70	22.58	22.62			
			1	49	23.00	22.66	22.56	22.59			
			25	0	22.00	21.50	21.56	21.56			
			25	12	22.00	21.61	21.61	21.55			
			25	24	22.00	21.51	21.49	21.54			
			50	0	22.00	21.56	21.58	21.61			
		16QAM	1	0	22.50	22.07	21.75	21.58			
			1	24	22.50	22.11	21.74	21.47			
			1	49	22.50	22.06	21.71	21.47			
			25	0	21.00	20.56	20.55	20.58			
			25	12	21.00	20.61	20.58	20.55			
			25	24	21.00	20.52	20.49	20.55			
			50	0	21.00	20.51	20.59	20.56			

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.00	22.63	22.56	22.58
			1	12	23.00	22.70	22.61	22.53
			1	24	23.00	22.66	22.55	22.60
			12	0	22.00	21.53	21.53	21.54
			12	6	22.00	21.51	21.50	21.51
			12	11	22.00	21.46	21.50	21.45
			25	0	22.00	21.53	21.51	21.50
		16QAM	1	0	22.50	22.12	21.96	21.92
			1	12	22.50	22.12	21.97	21.85
			1	24	22.50	22.09	21.92	21.92
			12	0	21.00	20.51	20.47	20.54
			12	6	21.00	20.49	20.41	20.50
			12	11	21.00	20.46	20.43	20.46
			25	0	21.00	20.51	20.51	20.47
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.00	22.56	22.55	22.67
			1	24	23.00	22.59	22.61	22.72
			1	49	23.00	22.55	22.54	22.58
			25	0	22.00	21.56	21.59	21.58
			25	12	22.00	21.53	21.52	21.54
			25	24	22.00	21.48	21.51	21.53
		16QAM	50	0	22.00	21.57	21.58	21.59
			1	0	22.50	21.70	21.48	22.15
			1	24	22.50	21.75	21.45	21.97
			1	49	22.50	21.68	21.41	21.96
			25	0	21.00	20.58	20.57	20.60
			25	12	21.00	20.53	20.50	20.55
			25	24	21.00	20.51	20.52	20.53
			50	0	21.00	20.59	20.51	20.58

7.4. 5G NR(FR1) Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		165800/829	167300/836.5	168800/844
NR Band n5	10MHz	DFT BPSK	1	1	23.00	22.67	22.18	22.28
		DFT QPSK	24	0	22.00	21.69	21.65	21.75
			12	6	23.00	22.71	22.76	22.83
			1	1	23.00	22.75	22.58	22.66
			1	22	23.00	22.46	22.69	22.82
		DFT QAM16	1	1	22.50	22.08	21.94	21.97
		DFT QAM64	1	1	21.00	20.55	20.38	20.41
		DFT QAM256	1	1	19.00	18.60	18.46	18.48
CP QPSK	1	1	20.00	19.66	19.61	19.75		
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		166300/831.5	167300/836.5	168300/841.5
NR Band n5	15MHz	DFT BPSK	1	1	22.50	22.12	22.17	22.26
		DFT QPSK	36	0	22.00	21.62	21.70	21.79
			18	9	23.00	22.64	22.70	22.77
			1	1	23.00	22.74	22.74	22.60
			1	36	23.00	22.58	21.69	22.86

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		166800/834	167300/836.5	167800/839
		DFT QAM16	1	1	22.50	22.07	22.04	21.93
		DFT QAM64	1	1	20.50	20.44	20.38	20.45
		DFT QAM256	1	1	19.00	18.53	18.53	18.53
		CP QPSK	1	1	20.00	19.57	19.63	19.76
NR Band n5	20MHz	DFT BPSK	1	1	22.50	22.06	22.16	22.26
		DFT QPSK	50	0	22.00	21.57	21.68	21.74
			25	12	23.00	22.63	22.71	22.77
			1	1	23.00	22.67	22.72	22.71
			1	49	23.00	22.48	22.71	22.84
		DFT QAM16	1	1	22.50	22.01	22.06	22.16
		DFT QAM64	1	1	21.00	20.50	20.46	20.50
		DFT QAM256	1	1	19.00	18.61	18.54	18.64
CP QPSK	1	1	20.00	19.57	19.64	19.75		

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		500202/2501.01	518598/2592.99	537000/2685
NR Band n41	10MHz	DFT BPSK	1	1	23.50	23.30	22.92	23.28
		DFT QPSK	24	0	23.00	22.36	22.41	22.77
			12	6	24.00	23.32	23.37	23.75
			1	1	24.00	23.32	23.24	23.59
			1	22	24.00	23.25	23.21	23.59
		DFT QAM16	1	1	23.00	22.25	22.18	22.54
		DFT QAM64	1	1	21.50	20.87	20.83	21.20
		DFT QAM256	1	1	19.50	18.96	18.95	19.30
CP QPSK	1	1	21.00	20.29	20.30	20.72		

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		500700/ 2503.5	518598/ 2592.99	536496/ 2682.48
NR Band n41	15MHz	DFT BPSK	1	1	23.50	22.81	22.89	23.19
		DFT QPSK	36	0	23.00	22.32	22.35	22.67
			18	9	24.00	23.34	23.41	23.72
			1	1	24.00	23.29	23.25	23.44
			1	36	24.00	23.22	23.29	23.60
		DFT QAM16	1	1	22.50	22.21	22.16	22.39
		DFT QAM64	1	1	21.50	20.81	20.80	21.04
		DFT QAM256	1	1	19.50	18.92	18.95	19.13
CP QPSK	1	1	21.00	20.29	20.35	20.67		
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		501204/ 2506.02	518598/ 2592.99	535998/ 2679.99
NR Band n41	20MHz	DFT BPSK	1	1	23.50	22.82	22.83	23.19
		DFT QPSK	50	0	23.00	22.35	22.33	22.70
			25	12	24.00	23.35	23.37	23.69
			1	1	24.00	23.22	23.14	23.47
			1	49	24.00	23.26	23.19	23.60
		DFT QAM16	1	1	22.50	22.18	22.07	22.38
		DFT QAM64	1	1	21.50	20.79	20.73	21.01
		DFT QAM256	1	1	19.50	18.92	18.82	19.12
CP QPSK	1	1	21.00	20.29	20.30	20.66		
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		503202/ 2516.01	518598/ 2592.99	534000/ 2670
NR Band n41	40MHz	DFT BPSK	1	1	23.50	22.77	22.73	23.05
		DFT QPSK	100	0	23.00	22.28	22.25	22.57
			50	25	24.00	23.36	23.36	23.64
			1	1	23.50	22.84	22.63	23.06

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		504204/ 2521.02	518598/ 2592.99	532998/ 2664.99
			1	104	23.50	22.91	23.06	23.26
		DFT QAM16	1	1	22.00	21.76	21.51	21.94
		DFT QAM64	1	1	21.00	20.43	20.22	20.70
		DFT QAM256	1	1	19.00	18.51	18.29	18.68
		CP QPSK	1	1	20.50	20.21	20.14	20.49
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		505200/ 2526	518598/ 2592.99	531996/ 2659.98
NR Band n41	50MHz	DFT BPSK	1	1	23.50	22.80	22.81	23.08
		DFT QPSK	128	0	23.00	22.30	22.31	22.60
			64	32	24.00	23.40	23.40	23.69
			1	1	24.00	23.07	22.92	22.97
			1	131	24.00	23.03	23.43	23.56
		DFT QAM16	1	1	22.00	21.96	21.77	21.89
		DFT QAM64	1	1	21.00	20.58	20.44	20.56
		DFT QAM256	1	1	19.00	18.73	18.61	18.71
CP QPSK	1	1	21.00	20.28	20.27	20.52		
NR Band n41	60MHz	DFT BPSK	1	1	23.50	22.82	22.81	23.01
		DFT QPSK	162	0	23.00	22.30	22.31	22.54
			81	40	24.00	23.40	23.38	23.68
			1	1	24.00	23.00	22.86	23.00
			1	160	24.00	22.99	23.36	23.50
		DFT QAM16	1	1	22.00	21.80	21.70	21.93
		DFT QAM64	1	1	21.00	20.57	20.41	20.60
		DFT QAM256	1	1	19.00	18.61	18.52	18.71
CP QPSK	1	1	20.50	20.23	20.26	20.47		

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		507204/2536.02	518598/2592.99	529998/2649.99
NR Band n41	80MHz	DFT BPSK	1	1	23.50	22.73	22.84	23.05
		DFT QPSK	216	0	23.00	22.25	22.34	22.54
			108	54	24.00	23.43	23.39	23.66
			1	1	23.50	22.80	22.66	22.56
			1	215	23.50	22.72	23.22	23.37
		DFT QAM16	1	1	22.00	21.65	21.51	21.48
		DFT QAM64	1	1	20.50	20.30	20.20	20.14
		DFT QAM256	1	1	19.00	18.55	18.43	18.36
		CP QPSK	1	1	20.50	20.21	20.29	20.49
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		508200/2541	518598/2592.99	528996/2644.98
NR Band n41	90MHz	DFT BPSK	1	1	23.00	22.71	22.86	22.98
		DFT QPSK	240	0	23.00	22.25	22.38	22.50
			120	60	24.00	23.44	23.37	23.67
			1	1	23.50	22.70	22.53	22.34
			1	243	23.50	22.68	23.02	23.21
		DFT QAM16	1	1	22.00	21.58	21.37	21.24
		DFT QAM64	1	1	20.50	20.23	20.07	19.89
		DFT QAM256	1	1	18.50	18.39	18.32	18.14
		CP QPSK	1	1	20.50	20.16	20.28	20.41
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		509202/2546.01	518598/2592.99	528000/2640
NR Band n41	100MHz	DFT BPSK	1	1	23.00	22.64	22.80	22.91
		DFT QPSK	270	0	23.50	23.15	23.31	23.40
			135	67	24.00	23.82	23.76	23.75
			1	1	24.00	23.53	23.35	23.23

		1	271	24.00	23.55	22.92	23.23
	DFT QAM16	1	1	23.50	23.32	23.23	22.15
	DFT QAM64	1	1	22.00	21.07	21.86	20.57
	DFT QAM256	1	1	20.00	19.30	19.18	19.93
	CP QPSK	1	1	20.50	20.07	20.26	20.39

7.5. WLAN & Bluetooth Output Power

7.5.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
			ANT1		ANT2		MIMO	
802.11b	1	2412	14.50	13.67	17.00	15.30	N/A	N/A
	6	2437	14.50	13.67	17.00	16.86	N/A	N/A
	11	2462	14.50	14.29	17.00	16.22	N/A	N/A
802.11g	1	2412	12.00	11.47	15.00	13.58	N/A	N/A
	6	2437	12.00	11.79	15.00	14.61	N/A	N/A
	11	2462	12.00	11.54	15.00	14.87	N/A	N/A
802.11n HT20	1	2412	12.00	11.36	15.00	14.37	16.50	16.13
	6	2437	12.00	11.62	15.00	14.58	16.50	16.36
	11	2462	12.00	11.39	15.00	14.72	16.50	16.38
802.11n HT40	3	2422	12.00	11.92	15.00	13.93	17.00	16.05
	6	2437	12.00	11.86	15.00	14.66	17.00	16.49
	9	2452	12.00	11.99	15.00	14.77	17.00	16.61

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
			ANT1		ANT2		MIMO	
802.11a	36	5180	11.500	11.019	12.500	11.176	N/A	N/A
	40	5200	11.500	11.093	12.500	11.558	N/A	N/A
	48	5240	11.500	11.428	12.500	12.324	N/A	N/A
802.11n (HT20)	36	5180	10.000	9.129	12.500	10.980	14.000	13.163
	40	5200	10.000	9.426	12.500	12.038	14.000	13.936
	48	5240	10.000	9.748	12.500	11.588	14.000	13.775

802.11n (HT40)	38	5190	10.500	9.725	12.000	10.889	14.000	13.356
	46	5230	10.500	10.116	12.000	11.657	14.000	13.965
802.11ac (VHT20)	36	5180	10.000	9.449	11.000	10.709	13.500	13.135
	40	5200	10.000	9.571	11.000	10.985	13.500	13.346
	48	5240	10.000	9.839	11.000	10.901	13.500	13.413
802.11ac (VHT40)	38	5190	10.500	9.877	12.000	10.757	14.000	13.350
	46	5230	10.500	10.076	12.000	11.560	14.000	13.891
802.11ac (VHT80)	42	5210	10.000	9.966	10.000	9.752	13.000	12.871

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
			ANT1		ANT2		MIMO	
802.11a	52	5260	11.000	10.566	13.500	12.326	N/A	N/A
	56	5280	11.000	10.847	13.500	11.586	N/A	N/A
	64	5320	11.000	10.992	13.500	13.221	N/A	N/A
802.11n (HT20)	52	5260	9.500	9.372	11.500	11.089	14.000	13.325
	56	5280	9.500	9.365	11.500	11.409	14.000	13.516
	64	5320	9.500	9.280	11.500	11.046	14.000	13.262
802.11n (HT40)	54	5270	10.500	10.024	12.000	10.417	14.500	13.235
	62	5310	10.500	9.864	12.000	11.982	14.500	14.061
802.11ac (VHT20)	52	5260	10.000	9.679	11.500	10.660	13.500	13.207
	56	5280	10.000	9.708	11.500	10.857	13.500	13.331
	64	5320	10.000	9.744	11.500	11.099	13.500	13.484
802.11ac (VHT40)	54	5270	10.000	9.991	12.000	11.613	14.500	13.888
	62	5310	10.000	9.948	12.000	11.934	14.500	14.064
802.11ac (VHT80)	58	5290	10.000	9.757	11.500	11.318	14.000	13.618

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
			ANT1		ANT2		MIMO	
802.11a	100	5500	10.000	9.025	13.000	12.629	N/A	N/A
	120	5600	10.000	9.938	13.000	12.592	N/A	N/A
	140	5700	10.000	9.667	13.000	12.142	N/A	N/A
802.11n (HT20)	100	5500	9.500	8.976	12.000	11.567	13.500	13.472
	120	5600	9.500	8.834	12.000	11.506	13.500	13.383

	140	5700	9.500	9.040	12.000	11.039	13.500	13.164
802.11n (HT40)	102	5510	8.000	6.953	11.500	10.415	13.000	12.031
	118	5590	8.000	7.462	11.500	11.480	13.000	12.930
	134	5670	8.000	7.612	11.500	10.635	13.000	12.392
802.11ac (VHT20)	100	5500	8.500	8.058	12.000	11.520	13.500	13.136
	120	5600	8.500	7.536	12.000	11.480	13.500	12.951
	140	5700	8.500	7.313	12.000	10.613	13.500	12.279
802.11ac (VHT40)	102	5510	8.500	8.123	12.000	11.536	13.500	13.167
	118	5590	8.500	7.497	12.000	11.452	13.500	12.920
	134	5670	8.500	7.502	12.000	11.694	13.500	13.096
802.11ac (VHT80)	106	5530	8.000	7.854	11.500	11.381	13.000	12.976
	122	5610	8.000	7.201	11.500	11.292	13.000	12.722

NOTE: Power measurement results of WLAN 5.6G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
			ANT1		ANT2		MIMO	
802.11a	149	5745	10.000	9.632	12.500	12.035	N/A	N/A
	157	5785	10.000	9.161	12.500	12.101	N/A	N/A
	165	5825	10.000	8.182	12.500	12.441	N/A	N/A
802.11n (HT20)	149	5745	8.500	8.018	11.500	10.808	13.000	12.644
	157	5785	8.500	8.494	11.500	11.029	13.000	12.954
	165	5825	8.500	7.314	11.500	11.315	13.000	12.770
802.11n (HT40)	151	5755	9.000	8.786	11.000	10.492	13.000	12.733
	159	5795	9.000	8.285	11.000	10.627	13.000	12.622
802.11ac (VHT20)	149	5745	9.000	8.677	11.500	10.904	13.500	12.942
	157	5785	9.000	8.602	11.500	11.095	13.500	13.035
	165	5825	9.000	7.355	11.500	11.358	13.500	12.813
802.11ac (VHT40)	151	5755	9.000	8.915	11.000	10.575	13.000	12.834
	159	5795	9.000	8.194	11.000	10.656	13.000	12.607
802.11ac (VHT80)	155	5775	8.500	8.086	11.500	11.449	13.500	13.095

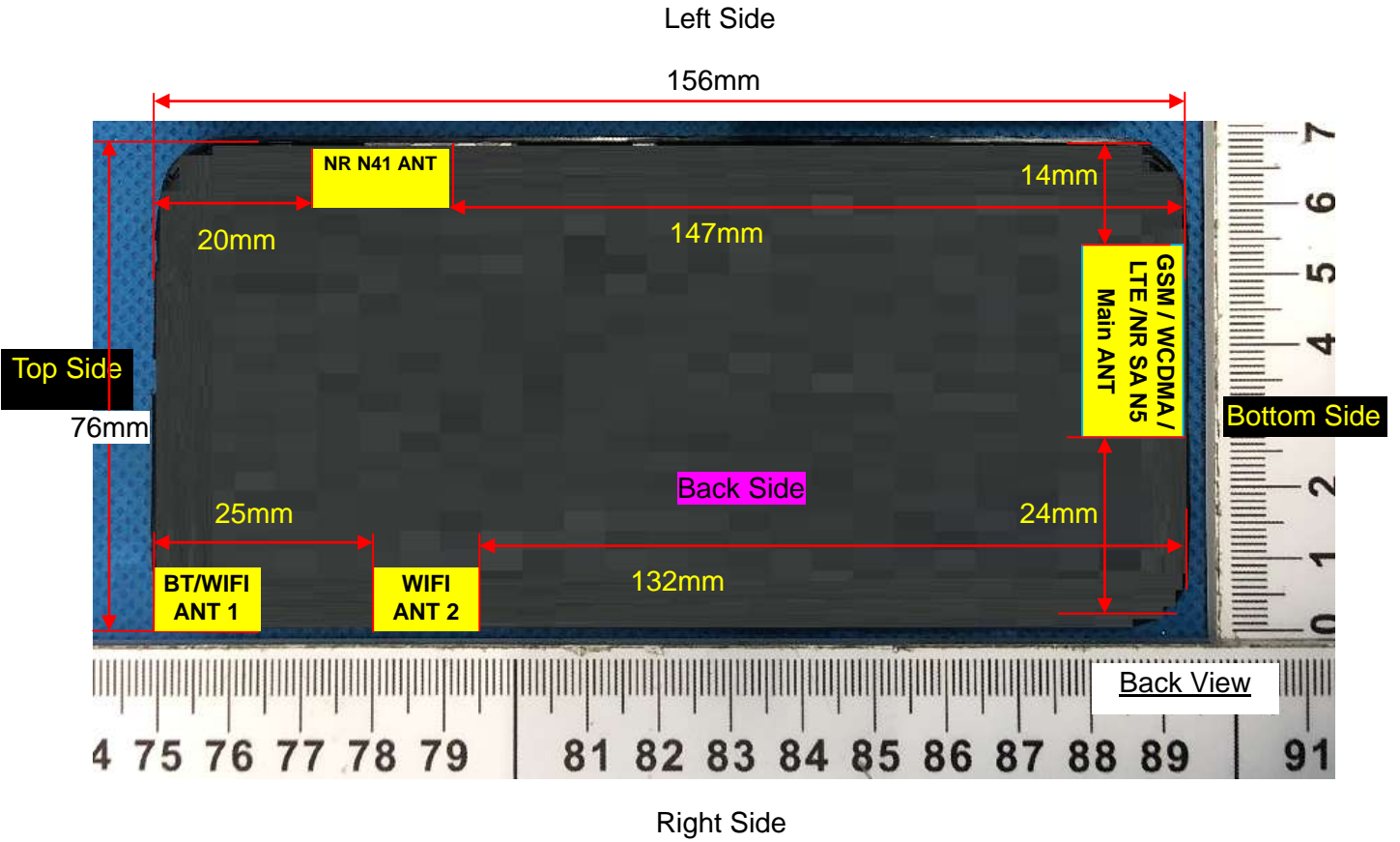
NOTE: Power measurement results of WLAN 5.8G.

7.5.2. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up	Channel		
			0	39	78
	1DH5	10.000	8.887	9.908	8.961
2DH5	9.500	8.404	9.236	8.974	
3DH5	9.000	8.800	9.003	7.747	

BLE	Channel	Data Rates		Data Rates	
		1M		2M	
		Tune-up	Output Power (dBm)	Tune-up	Output Power (dBm)
	0CH	1.000	-0.342	1.000	-0.370
19CH	1.000	-0.229	1.000	0.582	
39CH	1.000	-0.929	1.000	0.353	

8. Antenna Location



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

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm
NR N41	≤ 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	Yes	NO	Yes
NR N41	Yes	Yes	Yes	NO	Yes	NO
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 LE	1.00	1.26	5	2.480	0.4	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 LE	Head	1.00	1.26	5	2.480	7.5	0.053
Bluetooth LE	Body	1.00	1.26	5	2.480	7.5	0.053
Bluetooth LE	Hotspot	1.00	1.26	5	2.480	7.5	0.053

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	190/836.6	GPRS(GMSK 2TS)	0.197	0.136	1.51	31.47	32.00	0.223	2020/12/21

Left Tilt 15 Degree	190/836.6	GPRS(GMSK 2TS)	0.115	0.081	1.88	31.47	32.00	0.130	2020/12/21
Right Cheek	190/836.6	GPRS(GMSK 2TS)	0.173	0.117	1.59	31.47	32.00	0.195	2020/12/21
Right Tilt 15 Degree	190/836.6	GPRS(GMSK 2TS)	0.086	0.060	-0.09	31.47	32.00	0.097	2020/12/21

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 5mm	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	190/836.6	GPRS(GMSK 2TS)	0.197	0.139	2.25	31.47	32.00	0.223	2020/12/21
Back Side	190/836.6	GPRS(GMSK 2TS)	0.258	0.177	1.01	31.47	32.00	0.291	2020/12/21

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 5mm	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	190/836.6	GPRS(GMSK 2TS)	0.197	0.139	2.25	31.47	32.00	0.223	2020/12/21
Back Side	190/836.6	GPRS(GMSK 2TS)	0.258	0.177	1.01	31.47	32.00	0.291	2020/12/21
Left Side	190/836.6	GPRS(GMSK 2TS)	0.117	0.084	3.23	31.47	32.00	0.132	2020/12/21
Right Side	190/836.6	GPRS(GMSK 2TS)	0.091	0.066	0.04	31.47	32.00	0.103	2020/12/21
Bottom Side	190/836.6	GPRS(GMSK 2TS)	0.199	0.133	2.00	31.47	32.00	0.225	2020/12/21

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)	0.089	0.055	-2.14	25.54	26.00	0.099	2020/12/22
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.048	0.026	4.51	25.54	26.00	0.053	2020/12/22
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.078	0.044	-0.60	25.54	26.00	0.087	2020/12/22
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.040	0.023	-1.12	25.54	26.00	0.044	2020/12/22

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 5mm	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)	0.362	0.204	3.18	25.54	26.00	0.402	2020/12/22
Back Side	661/1880	GPRS(GMSK 4TS)	0.436	0.244	-4.32	25.54	26.00	0.485	2020/12/22

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 5mm	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)	0.362	0.204	3.18	25.54	26.00	0.402	2020/12/22
Back Side	661/1880	GPRS(GMSK 4TS)	0.436	0.244	-4.32	25.54	26.00	0.485	2020/12/22
Left Side	661/1880	GPRS(GMSK 4TS)	0.195	0.111	-2.88	25.54	26.00	0.217	2020/12/22
Right Side	661/1880	GPRS(GMSK 4TS)	0.150	0.084	3.67	25.54	26.00	0.167	2020/12/22
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.370	0.211	-2.16	25.54	26.00	0.411	2020/12/22

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	0.095	0.062	3.50	22.54	23.00	0.106	2020/12/22
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.053	0.037	-4.04	22.54	23.00	0.059	2020/12/22
Right Cheek	9400/1880	RMC12.2K	0.088	0.057	4.98	22.54	23.00	0.098	2020/12/22
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.042	0.027	2.46	22.54	23.00	0.047	2020/12/22

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 5mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.363	0.197	-1.40	22.54	23.00	0.404	2020/12/22
Back Side	9400/1880	RMC12.2K	0.471	0.260	0.09	22.54	23.00	0.524	2020/12/22

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

Test Position of Hotspot with 5mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.363	0.197	-1.40	22.54	23.00	0.404	2020/12/22
Back Side	9400/1880	RMC12.2K	0.471	0.260	0.09	22.54	23.00	0.524	2020/12/22
Left Side	9400/1880	RMC12.2K	0.206	0.117	0.71	22.54	23.00	0.229	2020/12/22
Right Side	9400/1880	RMC12.2K	0.176	0.093	-0.78	22.54	23.00	0.196	2020/12/22
Bottom Side	9400/1880	RMC12.2K	0.372	0.210	-3.89	22.54	23.00	0.414	2020/12/22

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	1450/1740	RMC12.2K	0.150	0.099	-3.47	22.62	23.00	0.164	2020/12/14
Left Tilt 15 Degree	1450/1740	RMC12.2K	0.084	0.059	0.11	22.62	23.00	0.092	2020/12/14
Right Cheek	1450/1740	RMC12.2K	0.142	0.093	1.02	22.62	23.00	0.155	2020/12/14
Right Tilt 15 Degree	1450/1740	RMC12.2K	0.077	0.052	1.15	22.62	23.00	0.084	2020/12/14

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 5mm	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	1450/1740	RMC12.2K	0.389	0.236	1.76	22.62	23.00	0.425	2020/12/14
Back Side	1450/1740	RMC12.2K	0.473	0.284	-1.26	22.62	23.00	0.516	2020/12/14

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

Test Position of Hotspot with 5mm	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	1450/1740	RMC12.2K	0.389	0.236	1.76	22.62	23.00	0.425	2020/12/14
Back Side	1450/1740	RMC12.2K	0.473	0.284	-1.26	22.62	23.00	0.516	2020/12/14
Left Side	1450/1740	RMC12.2K	0.211	0.127	4.79	22.62	23.00	0.230	2020/12/14
Right Side	1450/1740	RMC12.2K	0.174	0.105	2.20	22.62	23.00	0.190	2020/12/14
Bottom Side	1450/1740	RMC12.2K	0.362	0.217	-2.50	22.62	23.00	0.395	2020/12/14

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	0.123	0.094	2.08	22.96	23.50	0.139	2020/12/21
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.062	0.050	-1.21	22.96	23.50	0.070	2020/12/21
Right Cheek	4182/836.4	RMC12.2K	0.107	0.079	3.54	22.96	23.50	0.121	2020/12/21
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.057	0.044	4.87	22.96	23.50	0.065	2020/12/21

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 5mm	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	0.157	0.117	0.16	22.96	23.50	0.178	2020/12/21
Back Side	4182/836.4	RMC12.2K	0.194	0.140	-0.16	22.96	23.50	0.220	2020/12/21

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

Test Position of Hotspot with 5mm	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	0.157	0.117	0.16	22.96	23.50	0.178	2020/12/21
Back Side	4182/836.4	RMC12.2K	0.194	0.140	-0.16	22.96	23.50	0.220	2020/12/21

Left Side	4182/836.4	RMC12.2K	0.090	0.069	-2.08	22.96	23.50	0.102	2020/12/21
Right Side	4182/836.4	RMC12.2K	0.072	0.047	-0.57	22.96	23.50	0.082	2020/12/21
Bottom Side	4182/836.4	RMC12.2K	0.140	0.103	-4.44	22.96	23.50	0.159	2020/12/21

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 (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	18900/1880	20M QPSK(1,99)	0.090	0.058	-0.81	21.80	22.50	0.106	2020/12/22
Left Tilt 15 Degree	18900/1880	20M QPSK(1,99)	0.047	0.032	-4.48	21.80	22.50	0.055	2020/12/22
Right Cheek	18900/1880	20M QPSK(1,99)	0.084	0.050	-0.76	21.80	22.50	0.099	2020/12/22
Right Tilt 15 Degree	18900/1880	20M QPSK(1,99)	0.041	0.024	2.70	21.80	22.50	0.048	2020/12/22
50%RB									
Left Cheek	18900/1880	1.4M QPSK(3,1)	0.078	0.055	2.45	22.03	22.50	0.087	2020/12/22
Left Tilt 15 Degree	18900/1880	1.4M QPSK(3,1)	0.044	0.028	3.03	22.03	22.50	0.049	2020/12/22
Right Cheek	18900/1880	1.4M QPSK(3,1)	0.074	0.043	-3.38	22.03	22.50	0.082	2020/12/22
Right Tilt 15 Degree	18900/1880	1.4M QPSK(3,1)	0.036	0.021	-0.14	22.03	22.50	0.040	2020/12/22

NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 5mm	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	0.294	0.162	3.23	21.80	22.50	0.345	2020/12/22

		QPSK(1,99)							
Back Side	18900/1880	20M QPSK(1,99)	0.390	0.220	-1.38	21.80	22.50	0.458	2020/12/22
50%RB									
Front Side	18900/1880	1.4M QPSK(3,1)	0.279	0.144	3.73	22.03	22.50	0.311	2020/12/22
Back Side	18900/1880	1.4M QPSK(3,1)	0.355	0.204	-0.73	22.03	22.50	0.396	2020/12/22

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

Test Position of Hotspot with 5mm	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(1,99)	0.294	0.162	3.23	21.80	22.50	0.345	2020/12/22
Back Side	18900/1880	20M QPSK(1,99)	0.390	0.220	-1.38	21.80	22.50	0.458	2020/12/22
Left Side	18900/1880	20M QPSK(1,99)	0.179	0.101	4.60	21.80	22.50	0.210	2020/12/22
Right Side	18900/1880	20M QPSK(1,99)	0.150	0.084	-4.95	21.80	22.50	0.176	2020/12/22
Bottom Side	18900/1880	20M QPSK(1,99)	0.294	0.164	-3.97	21.80	22.50	0.345	2020/12/22
50%RB									
Front Side	18900/1880	1.4M QPSK(3,1)	0.279	0.144	3.73	22.03	22.50	0.311	2020/12/22
Back Side	18900/1880	1.4M QPSK(3,1)	0.355	0.204	-0.73	22.03	22.50	0.396	2020/12/22
Left Side	18900/1880	1.4M QPSK(3,1)	0.157	0.086	-4.75	22.03	22.50	0.175	2020/12/22
Right Side	18900/1880	1.4M QPSK(3,1)	0.137	0.076	-4.83	22.03	22.50	0.153	2020/12/22
Bottom Side	18900/1880	1.4M QPSK(3,1)	0.279	0.146	3.89	22.03	22.50	0.311	2020/12/22

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.151	0.099	-0.09	22.13	22.50	0.164	2020/12/14
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.086	0.058	-3.55	22.13	22.50	0.094	2020/12/14
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.136	0.088	-2.81	22.13	22.50	0.148	2020/12/14
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.075	0.054	-3.48	22.13	22.50	0.082	2020/12/14
50%RB									
Left Cheek	20175/1732.5	1.4M QPSK(3,1)	0.137	0.087	-0.86	22.01	22.50	0.153	2020/12/14
Left Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,1)	0.076	0.052	-1.36	22.01	22.50	0.085	2020/12/14
Right Cheek	20175/1732.5	1.4M QPSK(3,1)	0.120	0.078	-3.68	22.01	22.50	0.134	2020/12/14
Right Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,1)	0.065	0.049	4.90	22.01	22.50	0.073	2020/12/14

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 5mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20175/1732.5	20M QPSK(1,49)	0.351	0.208	4.45	22.13	22.50	0.382	2020/12/14
Back Side	20175/1732.5	20M QPSK(1,49)	0.437	0.262	-0.49	22.13	22.50	0.476	2020/12/14
50%RB									
Front Side	20175/1732.5	1.4M	0.319	0.194	4.16	22.01	22.50	0.357	2020/12/14

		QPSK(3,1)							
Back Side	20175/1732.5	1.4M QPSK(3,1)	0.386	0.229	2.10	22.01	22.50	0.432	2020/12/14

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

Test Position of Hotspot with 5mm	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)	0.351	0.208	4.45	22.13	22.50	0.382	2020/12/14
Back Side	20175/1732.5	20M QPSK(1,49)	0.437	0.262	-0.49	22.13	22.50	0.476	2020/12/14
Left Side	20175/1732.5	20M QPSK(1,49)	0.206	0.123	-2.62	22.13	22.50	0.224	2020/12/14
Right Side	20175/1732.5	20M QPSK(1,49)	0.169	0.106	4.08	22.13	22.50	0.184	2020/12/14
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.330	0.194	2.81	22.13	22.50	0.359	2020/12/14
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,1)	0.319	0.194	4.16	22.01	22.50	0.357	2020/12/14
Back Side	20175/1732.5	1.4M QPSK(3,1)	0.386	0.229	2.10	22.01	22.50	0.432	2020/12/14
Left Side	20175/1732.5	1.4M QPSK(3,1)	0.178	0.106	-2.78	22.01	22.50	0.199	2020/12/14
Right Side	20175/1732.5	1.4M QPSK(3,1)	0.160	0.100	-3.26	22.01	22.50	0.179	2020/12/14
Bottom Side	20175/1732.5	1.4M QPSK(3,1)	0.298	0.181	-1.40	22.01	22.50	0.334	2020/12/14

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

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

1RB									
Left Cheek	20525/836.5	10M QPSK(1,24)	0.120	0.092	1.36	22.53	23.00	0.134	2020/12/21
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.068	0.053	1.25	22.53	23.00	0.076	2020/12/21
Right Cheek	20525/836.5	10M QPSK(1,24)	0.112	0.084	-3.56	22.53	23.00	0.125	2020/12/21
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.060	0.049	2.93	22.53	23.00	0.067	2020/12/21
50%RB									
Left Cheek	20525/836.5	1.4M QPSK(3,0)	0.113	0.080	1.25	22.54	23.00	0.126	2020/12/21
Left Tilt 15 Degree	20525/836.5	1.4M QPSK(3,0)	0.058	0.046	3.32	22.54	23.00	0.064	2020/12/21
Right Cheek	20525/836.5	1.4M QPSK(3,0)	0.101	0.075	-3.18	22.54	23.00	0.112	2020/12/21
Right Tilt 15 Degree	20525/836.5	1.4M QPSK(3,0)	0.056	0.046	0.49	22.54	23.00	0.062	2020/12/21

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 5mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,24)	0.143	0.109	-0.10	22.53	23.00	0.159	2020/12/21
Back Side	20525/836.5	10M QPSK(1,24)	0.172	0.126	-0.64	22.53	23.00	0.192	2020/12/21
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,0)	0.122	0.097	4.19	22.54	23.00	0.136	2020/12/21
Back Side	20525/836.5	1.4M QPSK(3,0)	0.160	0.111	-0.90	22.54	23.00	0.178	2020/12/21

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

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date
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Position of Hotspot with 5mm	channel /Freq.		(W/kg)		Drift ($\pm 5\%$)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,24)	0.143	0.109	-0.10	22.53	23.00	0.159	2020/12/21
Back Side	20525/836.5	10M QPSK(1,24)	0.172	0.126	-0.64	22.53	23.00	0.192	2020/12/21
Left Side	20525/836.5	10M QPSK(1,24)	0.078	0.055	-0.81	22.53	23.00	0.087	2020/12/21
Right Side	20525/836.5	10M QPSK(1,24)	0.068	0.050	-2.61	22.53	23.00	0.076	2020/12/21
Bottom Side	20525/836.5	10M QPSK(1,24)	0.132	0.100	4.06	22.53	23.00	0.147	2020/12/21
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,0)	0.122	0.097	4.19	22.54	23.00	0.136	2020/12/21
Back Side	20525/836.5	1.4M QPSK(3,0)	0.160	0.111	-0.90	22.54	23.00	0.178	2020/12/21
Left Side	20525/836.5	1.4M QPSK(3,0)	0.070	0.052	-3.18	22.54	23.00	0.078	2020/12/21
Right Side	20525/836.5	1.4M QPSK(3,0)	0.059	0.047	0.54	22.54	23.00	0.066	2020/12/21
Bottom Side	20525/836.5	1.4M QPSK(3,0)	0.122	0.089	0.18	22.54	23.00	0.136	2020/12/21

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 ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	21100/2535	20M QPSK(1,49)	0.188	0.104	-0.05	23.29	23.50	0.197	2020/12/16
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.107	0.059	4.24	23.29	23.50	0.112	2020/12/16

Right Cheek	21100/2535	20M QPSK(1,49)	0.174	0.099	-3.57	23.29	23.50	0.183	2020/12/16
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.082	0.049	-1.73	23.29	23.50	0.086	2020/12/16
50%RB									
Left Cheek	21100/2535	20M QPSK(50,24)	0.161	0.092	-1.81	22.26	22.50	0.170	2020/12/16
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.094	0.055	1.75	22.26	22.50	0.099	2020/12/16
Right Cheek	21100/2535	20M QPSK(50,24)	0.152	0.087	-4.60	22.26	22.50	0.161	2020/12/16
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.074	0.042	-2.37	22.26	22.50	0.078	2020/12/16

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 5mm	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)	0.650	0.284	0.68	23.29	23.50	0.682	2020/12/16
Back Side	21100/2535	20M QPSK(1,49)	0.811	0.356	-0.51	23.29	23.50	0.851	2020/12/16
Back Side Repeated	21100/2535	20M QPSK(1,49)	0.805	0.354	1.11	23.29	23.50	0.845	2020/12/16
Back Side	20850/2510	20M QPSK(1,49)	0.715	0.308	0.34	23.16	23.50	0.773	2020/12/16
Back Side	21350/2560	20M QPSK(1,49)	0.746	0.312	1.21	23.35	23.50	0.772	2020/12/16
50%RB									
Front Side	21100/2535	20M QPSK(50,24)	0.592	0.253	1.67	22.26	22.50	0.626	2020/12/16
Back Side	21100/2535	20M QPSK(50,24)	0.668	0.333	4.31	22.26	22.50	0.706	2020/12/16
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.608	0.304	1.25	22.17	22.50	0.656	2020/12/16

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

Test Position of Hotspot with 5mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	21100/2535	20M QPSK(1,49)	0.650	0.284	0.68	23.29	23.50	0.682	2020/12/16
Back Side	21100/2535	20M QPSK(1,49)	0.811	0.356	-0.51	23.29	23.50	0.851	2020/12/16
BackSide Repeated	21100/2535	20M QPSK(1,49)	0.805	0.354	1.11	23.29	23.50	0.845	2020/12/16
Left Side	21100/2535	20M QPSK(1,49)	0.349	0.156	-3.78	23.29	23.50	0.366	2020/12/16
Right Side	21100/2535	20M QPSK(1,49)	0.294	0.133	-2.43	23.29	23.50	0.309	2020/12/16
Bottom Side	21100/2535	20M QPSK(1,49)	0.572	0.254	1.17	23.29	23.50	0.600	2020/12/16
Back Side	20850/2510	20M QPSK(1,49)	0.715	0.308	0.34	23.16	23.50	0.773	2020/12/16
Back Side	21350/2560	20M QPSK(1,49)	0.746	0.312	1.21	23.35	23.50	0.772	2020/12/16
50%RB									
Front Side	21100/2535	20M QPSK(50,24)	0.592	0.253	1.67	22.26	22.50	0.626	2020/12/16
Back Side	21100/2535	20M QPSK(50,24)	0.668	0.333	4.31	22.26	22.50	0.706	2020/12/16
Left Side	21100/2535	20M QPSK(50,24)	0.328	0.147	-1.77	22.26	22.50	0.347	2020/12/16
Right Side	21100/2535	20M QPSK(50,24)	0.258	0.125	3.32	22.26	22.50	0.273	2020/12/16
Bottom Side	21100/2535	20M QPSK(50,24)	0.525	0.225	-0.76	22.26	22.50	0.555	2020/12/16
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.608	0.304	1.25	22.17	22.50	0.656	2020/12/16

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	23095/707.5	10M QPSK(1,24)	0.120	0.098	-1.68	22.58	23.00	0.132	2020/12/18
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.060	0.048	4.56	22.58	23.00	0.066	2020/12/18
Right Cheek	23095/707.5	10M QPSK(1,24)	0.112	0.088	1.21	22.58	23.00	0.123	2020/12/18
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.057	0.050	-3.59	22.58	23.00	0.063	2020/12/18
50%RB									
Left Cheek	23095/707.5	1.4M QPSK(3,0)	0.109	0.084	2.83	22.55	23.00	0.121	2020/12/18
Left Tilt 15 Degree	23095/707.5	1.4M QPSK(3,0)	0.055	0.041	4.94	22.55	23.00	0.061	2020/12/18
Right Cheek	23095/707.5	1.4M QPSK(3,0)	0.105	0.077	-4.60	22.55	23.00	0.116	2020/12/18
Right Tilt 15 Degree	23095/707.5	1.4M QPSK(3,0)	0.051	0.044	-2.35	22.55	23.00	0.057	2020/12/18

NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 5mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,24)	0.149	0.118	4.91	22.58	23.00	0.164	2020/12/18
Back Side	23095/707.5	10M QPSK(1,24)	0.196	0.154	-0.45	22.58	23.00	0.216	2020/12/18
50%RB									
Front Side	23095/707.5	1.4M	0.131	0.105	-2.56	22.55	23.00	0.145	2020/12/18

		QPSK(3,0)							
Back Side	23095/707.5	1.4M QPSK(3,0)	0.179	0.140	2.31	22.55	23.00	0.199	2020/12/18

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

Test Position of Hotspot with 5mm	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)	0.149	0.118	4.91	22.58	23.00	0.164	2020/12/18
Back Side	23095/707.5	10M QPSK(1,24)	0.196	0.154	-0.45	22.58	23.00	0.216	2020/12/18
Left Side	23095/707.5	10M QPSK(1,24)	0.087	0.073	-2.14	22.58	23.00	0.096	2020/12/18
Right Side	23095/707.5	10M QPSK(1,24)	0.071	0.056	1.97	22.58	23.00	0.078	2020/12/18
Bottom Side	23095/707.5	10M QPSK(1,24)	0.146	0.110	-3.48	22.58	23.00	0.161	2020/12/18
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,0)	0.131	0.105	-2.56	22.55	23.00	0.145	2020/12/18
Back Side	23095/707.5	1.4M QPSK(3,0)	0.179	0.140	2.31	22.55	23.00	0.199	2020/12/18
Left Side	23095/707.5	1.4M QPSK(3,0)	0.081	0.068	1.14	22.55	23.00	0.090	2020/12/18
Right Side	23095/707.5	1.4M QPSK(3,0)	0.067	0.050	3.59	22.55	23.00	0.074	2020/12/18
Bottom Side	23095/707.5	1.4M QPSK(3,0)	0.125	0.097	4.47	22.55	23.00	0.139	2020/12/18

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)	0.121	0.097	2.47	22.61	23.00	0.132	2020/12/18
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.067	0.050	-3.83	22.61	23.00	0.073	2020/12/18
Right Cheek	23790/710	10M QPSK(1,24)	0.114	0.095	-1.56	22.61	23.00	0.125	2020/12/18
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.055	0.044	2.36	22.61	23.00	0.060	2020/12/18
50%RB									
Left Cheek	23790/710	10M QPSK(25,0)	0.113	0.087	4.78	21.59	22.00	0.124	2020/12/18
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.061	0.047	0.25	21.59	22.00	0.067	2020/12/18
Right Cheek	23790/710	10M QPSK(25,0)	0.105	0.090	-3.98	21.59	22.00	0.115	2020/12/18
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.052	0.038	-2.01	21.59	22.00	0.057	2020/12/18

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 5mm	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)	0.160	0.128	-3.09	22.61	23.00	0.175	2020/12/18
Back Side	23790/710	10M QPSK(1,24)	0.198	0.153	-0.19	22.61	23.00	0.217	2020/12/18
50%RB									
Front Side	23790/710	10M QPSK(25,0)	0.137	0.118	0.55	21.59	22.00	0.151	2020/12/18
Back Side	23790/710	10M QPSK(25,0)	0.170	0.134	-1.74	21.59	22.00	0.187	2020/12/18

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

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date
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Position of Hotspot with 5mm	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,24)	0.160	0.128	-3.09	22.61	23.00	0.175	2020/12/18
Back Side	23790/710	10M QPSK(1,24)	0.198	0.153	-0.19	22.61	23.00	0.217	2020/12/18
Left Side	23790/710	10M QPSK(1,24)	0.088	0.071	1.42	22.61	23.00	0.096	2020/12/18
Right Side	23790/710	10M QPSK(1,24)	0.076	0.057	-1.37	22.61	23.00	0.083	2020/12/18
Bottom Side	23790/710	10M QPSK(1,24)	0.150	0.120	3.47	22.61	23.00	0.164	2020/12/18
50%RB									
Front Side	23790/710	10M QPSK(25,0)	0.137	0.118	0.55	21.59	22.00	0.151	2020/12/18
Back Side	23790/710	10M QPSK(25,0)	0.170	0.134	-1.74	21.59	22.00	0.187	2020/12/18
Left Side	23790/710	10M QPSK(25,0)	0.078	0.067	0.41	21.59	22.00	0.086	2020/12/18
Right Side	23790/710	10M QPSK(25,0)	0.065	0.054	1.30	21.59	22.00	0.071	2020/12/18
Bottom Side	23790/710	10M QPSK(25,0)	0.134	0.109	3.39	21.59	22.00	0.147	2020/12/18

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. SAR measurement Result of NR Band n5

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	167300/836.5	20M QPSK(1,1)	0.110	0.085	-3.35	22.72	23.00	0.117	2020/12/21
Left Tilt 15 Degree	167300/836.5	20M QPSK(1,1)	0.065	0.046	1.76	22.72	23.00	0.069	2020/12/21

Right Cheek	167300/836.5	20M QPSK(1,1)	0.100	0.078	3.37	22.72	23.00	0.107	2020/12/21
Right Tilt 15 Degree	167300/836.5	20M QPSK(1,1)	0.049	0.040	0.68	22.72	23.00	0.052	2020/12/21
50%RB									
Left Cheek	167300/836.5	20M QPSK(25,12)	0.095	0.080	-0.57	22.71	23.00	0.102	2020/12/21
Left Tilt 15 Degree	167300/836.5	20M QPSK(25,12)	0.060	0.043	0.70	22.71	23.00	0.064	2020/12/21
Right Cheek	167300/836.5	20M QPSK(25,12)	0.090	0.073	-4.57	22.71	23.00	0.096	2020/12/21
Right Tilt 15 Degree	167300/836.5	20M QPSK(25,12)	0.044	0.036	-2.06	22.71	23.00	0.047	2020/12/21

NOTE: Head SAR test results of NR Band n5

Test Position of Body-Worn with 5mm	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	167300/836.5	20M QPSK(1,1)	0.106	0.082	-0.44	22.72	23.00	0.113	2020/12/21
Back Side	167300/836.5	20M QPSK(1,1)	0.131	0.101	1.16	22.72	23.00	0.140	2020/12/21
50%RB									
Front Side	167300/836.5	20M QPSK(25,12)	0.090	0.075	0.17	22.71	23.00	0.096	2020/12/21
Back Side	167300/836.5	20M QPSK(25,12)	0.113	0.089	-2.59	22.71	23.00	0.121	2020/12/21

NOTE: Body-Worn SAR test results of NR Band n5

Test Position of Hotspot with 5mm	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	167300/836.5	20M QPSK(1,1)	0.106	0.082	-0.44	22.72	23.00	0.113	2020/12/21
Back Side	167300/836.5	20M QPSK(1,1)	0.131	0.101	1.16	22.72	23.00	0.140	2020/12/21
Left Side	167300/836.5	20M QPSK(1,1)	0.065	0.052	2.41	22.72	23.00	0.069	2020/12/21
Right Side	167300/836.5	20M QPSK(1,1)	0.046	0.033	-2.45	22.72	23.00	0.049	2020/12/21
Bottom Side	167300/836.5	20M QPSK(1,1)	0.102	0.075	-0.41	22.72	23.00	0.109	2020/12/21
50%RB									
Front Side	167300/836.5	20M QPSK(25,12)	0.090	0.075	0.17	22.71	23.00	0.096	2020/12/21
Back Side	167300/836.5	20M QPSK(25,12)	0.113	0.089	-2.59	22.71	23.00	0.121	2020/12/21
Left Side	167300/836.5	20M QPSK(25,12)	0.056	0.045	1.08	22.71	23.00	0.060	2020/12/21
Right Side	167300/836.5	20M QPSK(25,12)	0.041	0.029	-0.84	22.71	23.00	0.044	2020/12/21
Bottom Side	167300/836.5	20M QPSK(25,12)	0.090	0.066	-3.09	22.71	23.00	0.096	2020/12/21

NOTE: Hotspot SAR test results of NR Band n5

10.1.13. SAR measurement Result of NR Band n41

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	518598/ 2592.99	100M QPSK(1,1)	0.053	0.038	0.09	23.35	24.00	0.062	2020/12/16
Left Tilt 15 Degree	518598/ 2592.99	100M QPSK(1,1)	0.031	0.025	0.58	23.35	24.00	0.036	2020/12/16
Right Cheek	518598/ 2592.99	100M QPSK(1,1)	0.046	0.030	-2.34	23.35	24.00	0.053	2020/12/16
Right Tilt 15 Degree	518598/ 2592.99	100M QPSK(1,1)	0.024	0.017	2.82	23.35	24.00	0.028	2020/12/16
50%RB									
Left	518598/	100M	0.047	0.034	-3.57	23.76	24.00	0.050	2020/12/16

Cheek	2592.99	QPSK(135,67)							
Left Tilt 15 Degree	518598/ 2592.99	100M QPSK(135,67)	0.028	0.023	0.40	23.76	24.00	0.030	2020/12/16
Right Cheek	518598/ 2592.99	100M QPSK(135,67)	0.042	0.028	-0.61	23.76	24.00	0.044	2020/12/16
Right Tilt 15 Degree	518598/ 2592.99	100M QPSK(135,67)	0.021	0.015	-0.23	23.76	24.00	0.022	2020/12/16

NOTE: Head SAR test results of NR Band n41

Test Position of Body-Worn with 5mm	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	518598/ 2592.99	100M QPSK(1,1)	0.158	0.084	4.13	23.35	24.00	0.184	2020/12/16
Back Side	518598/ 2592.99	100M QPSK(1,1)	0.202	0.112	-0.73	23.35	24.00	0.235	2020/12/16
50%RB									
Front Side	518598/ 2592.99	100M QPSK(135,67)	0.141	0.074	4.75	23.76	24.00	0.149	2020/12/16
Back Side	518598/ 2592.99	100M QPSK(135,67)	0.181	0.096	3.43	23.76	24.00	0.191	2020/12/16

NOTE: Body-Worn SAR test results of NR Band n41

Test Position of Hotspot with 5mm	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	518598/ 2592.99	100M QPSK(1,1)	0.158	0.084	4.13	23.35	24.00	0.184	2020/12/16
Back Side	518598/ 2592.99	100M QPSK(1,1)	0.202	0.112	-0.73	23.35	24.00	0.235	2020/12/16
Left Side	518598/ 2592.99	100M QPSK(1,1)	0.166	0.091	-1.34	23.35	24.00	0.193	2020/12/16
Top Side	518598/ 2592.99	100M	0.089	0.048	-3.31	23.35	24.00	0.103	2020/12/16

	2592.99	QPSK(1,1)							
50%RB									
Front Side	518598/ 2592.99	100M QPSK(135,67)	0.141	0.074	4.75	23.76	24.00	0.149	2020/12/16
Back Side	518598/ 2592.99	100M QPSK(135,67)	0.181	0.096	3.43	23.76	24.00	0.191	2020/12/16
Left Side	518598/ 2592.99	100M QPSK(135,67)	0.152	0.085	3.97	23.76	24.00	0.161	2020/12/16
Top Side	518598/ 2592.99	100M QPSK(135,67)	0.076	0.044	0.31	23.76	24.00	0.080	2020/12/16

NOTE: Hotspot SAR test results of NR Band n41

10.1.14. SAR measurement Result of WLAN 2.4G

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					
ANT1									
Left Cheek	6/2437	802.11 b	0.171	0.090	0.47	13.67	14.50	0.207	2020/12/15
Left Tilt 15 Degree	6/2437	802.11 b	0.097	0.056	4.40	13.67	14.50	0.117	2020/12/15
Right Cheek	6/2437	802.11 b	0.156	0.082	-0.42	13.67	14.50	0.189	2020/12/15
Right Tilt 15 Degree	6/2437	802.11 b	0.074	0.042	4.56	13.67	14.50	0.090	2020/12/15
ANT2									
Left Cheek	6/2437	802.11 b	0.134	0.076	-0.76	16.86	17.00	0.138	2020/12/15
Left Tilt 15 Degree	6/2437	802.11 b	0.071	0.042	-3.52	16.86	17.00	0.073	2020/12/15
Right Cheek	6/2437	802.11 b	0.127	0.071	2.34	16.86	17.00	0.131	2020/12/15
Right Tilt 15 Degree	6/2437	802.11 b	0.068	0.036	0.90	16.86	17.00	0.070	2020/12/15
MIMO									
Left Cheek	6/2437	802.11n40	0.267	0.144	-1.20	16.49	17.00	0.300	2020/12/15
Left Tilt 15 Degree	6/2437	802.11n40	0.155	0.083	2.10	16.49	17.00	0.174	2020/12/15
Right Cheek	6/2437	802.11n40	0.242	0.133	4.38	16.49	17.00	0.272	2020/12/15
Right Tilt 15 Degree	6/2437	802.11n40	0.124	0.066	1.85	16.49	17.00	0.139	2020/12/15

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body-Worn with 5mm	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					
ANT 1									
Front Side	6/2437	802.11 b	0.029	0.021	-3.79	13.67	14.50	0.035	2020/12/15
Back Side	6/2437	802.11 b	0.047	0.032	-3.09	13.67	14.50	0.057	2020/12/15
ANT 2									
Front Side	6/2437	802.11 b	0.023	0.018	-3.39	16.86	17.00	0.024	2020/12/15
Back Side	6/2437	802.11 b	0.037	0.028	2.84	16.86	17.00	0.038	2020/12/15
MIMO									
Front Side	6/2437	802.11n40	0.050	0.035	0.18	16.49	17.00	0.056	2020/12/15
Back Side	6/2437	802.11n40	0.070	0.047	0.87	16.49	17.00	0.079	2020/12/15

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

Test Position of Hotspot with 5mm	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					
ANT 1									
Front Side	6/2437	802.11 b	0.029	0.021	-3.79	13.67	14.50	0.035	2020/12/15
Back Side	6/2437	802.11 b	0.047	0.032	-3.09	13.67	14.50	0.057	2020/12/15
Right Side	6/2437	802.11 b	0.020	0.016	3.45	13.67	14.50	0.024	2020/12/15
Top Side	6/2437	802.11 b	0.018	0.015	-0.27	13.67	14.50	0.022	2020/12/15
ANT 2									
Front Side	6/2437	802.11 b	0.023	0.018	-3.39	16.86	17.00	0.024	2020/12/15
Back Side	6/2437	802.11 b	0.037	0.028	2.84	16.86	17.00	0.038	2020/12/15
Right Side	6/2437	802.11 b	0.025	0.019	0.37	16.86	17.00	0.026	2020/12/15
Top Side	6/2437	802.11 b	0.012	0.010	-1.15	16.86	17.00	0.012	2020/12/15
MIMO									
Front Side	6/2437	802.11n40	0.050	0.035	0.18	16.49	17.00	0.056	2020/12/15
Back Side	6/2437	802.11n40	0.070	0.047	0.87	16.49	17.00	0.079	2020/12/15
Right Side	6/2437	802.11n40	0.053	0.039	-2.31	16.49	17.00	0.060	2020/12/15
Top Side	6/2437	802.11n40	0.025	0.018	-0.88	16.49	17.00	0.028	2020/12/15

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.15. SAR measurement Result of WLAN 5.2G

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

ANT1									
Left Cheek	40/5200	802.11a	0.601	0.212	-0.75	11.093	11.500	0.660	2020/12/16
Left Tilt 15 Degree	40/5200	802.11a	0.352	0.125	-2.07	11.093	11.500	0.387	2020/12/16
Right Cheek	40/5200	802.11a	0.555	0.192	4.55	11.093	11.500	0.610	2020/12/16
Right Tilt 15 Degree	40/5200	802.11a	0.293	0.104	1.31	11.093	11.500	0.322	2020/12/16
ANT2									
Left Cheek	40/5200	802.11a	0.201	0.103	2.35	11.558	12.500	0.250	2020/12/16
Left Tilt 15 Degree	40/5200	802.11a	0.106	0.057	-0.39	11.558	12.500	0.132	2020/12/16
Right Cheek	40/5200	802.11a	0.176	0.095	-0.95	11.558	12.500	0.219	2020/12/16
Right Tilt 15 Degree	40/5200	802.11a	0.090	0.046	-1.33	11.558	12.500	0.112	2020/12/16
MIMO									
Left Cheek	40/5200	802.11n20	0.692	0.262	-4.23	13.936	14.000	0.702	2020/12/16
Left Tilt 15 Degree	40/5200	802.11n20	0.381	0.144	-0.98	13.936	14.000	0.387	2020/12/16
Right Cheek	40/5200	802.11n20	0.617	0.237	-0.26	13.936	14.000	0.626	2020/12/16
Right Tilt 15 Degree	40/5200	802.11n20	0.305	0.118	1.53	13.936	14.000	0.310	2020/12/16

NOTE: Head SAR test results of WLAN 5.2G

Test Position of Body-Worn with 5mm	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					
ANT 1									
Front Side	40/5200	802.11a	0.124	0.066	4.64	11.093	11.500	0.136	2020/12/16

Back Side	40/5200	802.11a	0.171	0.091	2.73	11.093	11.500	0.188	2020/12/16
ANT 2									
Front Side	40/5200	802.11a	0.079	0.053	-1.05	11.558	12.500	0.098	2020/12/16
Back Side	40/5200	802.11a	0.106	0.075	1.34	11.558	12.500	0.132	2020/12/16
MIMO									
Front Side	40/5200	802.11n20	0.174	0.096	3.37	13.936	14.000	0.177	2020/12/16
Back Side	40/5200	802.11n20	0.234	0.125	-0.35	13.936	14.000	0.237	2020/12/16

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

Test Position of Hotspot with 5mm	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					
ANT 1									
Front Side	40/5200	802.11a	0.124	0.066	4.64	11.093	11.500	0.136	2020/12/16
Back Side	40/5200	802.11a	0.171	0.091	2.73	11.093	11.500	0.188	2020/12/16
Right Side	40/5200	802.11a	0.143	0.074	-2.74	11.093	11.500	0.157	2020/12/16
Top Side	40/5200	802.11a	0.065	0.039	0.18	11.093	11.500	0.071	2020/12/16
ANT 2									
Front Side	40/5200	802.11a	0.079	0.053	-1.05	11.558	12.500	0.098	2020/12/16
Back Side	40/5200	802.11a	0.106	0.075	1.34	11.558	12.500	0.132	2020/12/16
Right Side	40/5200	802.11a	0.080	0.053	1.20	11.558	12.500	0.099	2020/12/16
Top Side	40/5200	802.11a	0.042	0.035	2.05	11.558	12.500	0.052	2020/12/16
MIMO									
Front Side	40/5200	802.11n20	0.174	0.096	3.37	13.936	14.000	0.177	2020/12/16
Back Side	40/5200	802.11n20	0.234	0.125	-0.35	13.936	14.000	0.237	2020/12/16
Right Side	40/5200	802.11n20	0.199	0.106	-3.08	13.936	14.000	0.202	2020/12/16
Top Side	40/5200	802.11n20	0.087	0.044	-0.30	13.936	14.000	0.088	2020/12/16

NOTE: Hotspot SAR test results of WLAN 5.2G

10.1.16. SAR measurement Result of WLAN 5.3G

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					
ANT1									
Left Cheek	56/5280	802.11a	0.302	0.141	-4.10	10.847	11.000	0.313	2020/12/17
Left Tilt 15 Degree	56/5280	802.11a	0.170	0.083	3.55	10.847	11.000	0.176	2020/12/17
Right Cheek	56/5280	802.11a	0.262	0.122	1.14	10.847	11.000	0.271	2020/12/17

Right Tilt 15 Degree	56/5280	802.11a	0.130	0.063	-4.20	10.847	11.000	0.135	2020/12/17
ANT2									
Left Cheek	56/5280	802.11a	0.228	0.109	-4.10	11.586	13.500	0.354	2020/12/17
Left Tilt 15 Degree	56/5280	802.11a	0.136	0.062	2.22	11.586	13.500	0.211	2020/12/17
Right Cheek	56/5280	802.11a	0.213	0.106	-1.94	11.586	13.500	0.331	2020/12/17
Right Tilt 15 Degree	56/5280	802.11a	0.110	0.054	2.56	11.586	13.500	0.171	2020/12/17
MIMO									
Left Cheek	62/5310	802.11n40	0.428	0.165	-3.83	14.060	14.500	0.474	2020/12/17
Left Tilt 15 Degree	62/5310	802.11n40	0.253	0.102	1.25	14.060	14.500	0.280	2020/12/17
Right Cheek	62/5310	802.11n40	0.401	0.151	-2.98	14.060	14.500	0.444	2020/12/17
Right Tilt 15 Degree	62/5310	802.11n40	0.218	0.089	-3.16	14.060	14.500	0.241	2020/12/17

NOTE: Head SAR test results of WLAN 5.3G

Test Position of Body-Worn with 5mm	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					
ANT 1									
Front Side	56/5280	802.11a	0.107	0.062	-3.89	10.847	11.000	0.111	2020/12/17
Back Side	56/5280	802.11a	0.142	0.088	0.22	10.847	11.000	0.147	2020/12/17
ANT 2									
Front Side	56/5280	802.11a	0.075	0.048	3.11	11.586	13.500	0.117	2020/12/17
Back Side	56/5280	802.11a	0.100	0.068	0.22	11.586	13.500	0.155	2020/12/17
MIMO									
Front Side	62/5310	802.11n40	0.133	0.078	3.32	14.060	14.500	0.147	2020/12/17
Back Side	62/5310	802.11n40	0.181	0.107	0.03	14.060	14.500	0.200	2020/12/17

NOTE: Body-Worn SAR test results of WLAN 5.3G

Test Position of Hotspot with 5mm	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					
ANT 1									
Front Side	56/5280	802.11a	0.107	0.062	-3.89	10.847	11.000	0.111	2020/12/17
Back Side	56/5280	802.11a	0.142	0.088	0.22	10.847	11.000	0.147	2020/12/17
Right Side	56/5280	802.11a	0.120	0.077	-2.38	10.847	11.000	0.124	2020/12/17

Top Side	56/5280	802.11a	0.057	0.036	-4.64	10.847	11.000	0.059	2020/12/17
ANT 2									
Front Side	56/5280	802.11a	0.075	0.048	3.11	11.586	13.500	0.117	2020/12/17
Back Side	56/5280	802.11a	0.100	0.068	0.22	11.586	13.500	0.155	2020/12/17
Right Side	56/5280	802.11a	0.084	0.053	1.66	11.586	13.500	0.131	2020/12/17
Top Side	56/5280	802.11a	0.036	0.023	1.93	11.586	13.500	0.056	2020/12/17
MIMO									
Front Side	62/5310	802.11n40	0.133	0.078	3.32	14.060	14.500	0.147	2020/12/17
Back Side	62/5310	802.11n40	0.181	0.107	0.03	14.060	14.500	0.200	2020/12/17
Right Side	62/5310	802.11n40	0.151	0.085	-4.09	14.060	14.500	0.167	2020/12/17
Top Side	62/5310	802.11n40	0.065	0.036	3.38	14.060	14.500	0.072	2020/12/17

NOTE: Hotspot SAR test results of WLAN 5.3G

10.1.17. SAR measurement Result of WLAN 5.6G

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					
ANT1									
Left Cheek	120/5600	802.11a	0.427	0.153	-3.84	9.938	10.000	0.433	2020/12/17
Left Tilt 15 Degree	120/5600	802.11a	0.234	0.080	1.85	9.938	10.000	0.237	2020/12/17
Right Cheek	120/5600	802.11a	0.376	0.138	0.51	9.938	10.000	0.381	2020/12/17
Right Tilt 15 Degree	120/5600	802.11a	0.187	0.065	-2.35	9.938	10.000	0.190	2020/12/17
ANT2									
Left Cheek	120/5600	802.11a	0.172	0.093	-3.84	12.592	13.000	0.189	2020/12/17
Left Tilt 15 Degree	120/5600	802.11a	0.097	0.049	2.37	12.592	13.000	0.107	2020/12/17
Right Cheek	120/5600	802.11a	0.151	0.078	-0.76	12.592	13.000	0.166	2020/12/17
Right Tilt 15 Degree	120/5600	802.11a	0.071	0.039	-2.06	12.592	13.000	0.078	2020/12/17
MIMO									
Left Cheek	120/5600	802.11n20	0.507	0.191	1.02	13.383	13.500	0.521	2020/12/17
Left Tilt 15 Degree	120/5600	802.11n20	0.291	0.113	2.52	13.383	13.500	0.299	2020/12/17
Right Cheek	120/5600	802.11n20	0.432	0.165	1.93	13.383	13.500	0.444	2020/12/17
Right Tilt 15 Degree	120/5600	802.11n20	0.219	0.078	2.48	13.383	13.500	0.225	2020/12/17

NOTE: Head SAR test results of WLAN 5.6G

Test Position of Body-Worn with 5mm	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					
ANT 1									
Front Side	120/5600	802.11a	0.103	0.068	-4.03	9.938	10.000	0.104	2020/12/17
Back Side	120/5600	802.11a	0.144	0.091	-0.73	9.938	10.000	0.146	2020/12/17
ANT 2									
Front Side	120/5600	802.11a	0.081	0.039	3.58	12.592	13.000	0.089	2020/12/17
Back Side	120/5600	802.11a	0.104	0.055	-2.35	12.592	13.000	0.114	2020/12/17
MIMO									
Front Side	120/5600	802.11n20	0.195	0.108	-1.40	13.383	13.500	0.200	2020/12/17
Back Side	120/5600	802.11n20	0.248	0.131	1.32	13.383	13.500	0.255	2020/12/17

NOTE: Body-Worn SAR test results of WLAN 5.6G

Test Position of Hotspot with 5mm	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					
ANT 1									
Front Side	120/5600	802.11a	0.103	0.068	-4.03	9.938	10.000	0.104	2020/12/17
Back Side	120/5600	802.11a	0.144	0.091	-0.73	9.938	10.000	0.146	2020/12/17
Right Side	120/5600	802.11a	0.114	0.073	-2.07	9.938	10.000	0.116	2020/12/17
Top Side	120/5600	802.11a	0.056	0.032	1.91	9.938	10.000	0.057	2020/12/17
ANT 2									
Front Side	120/5600	802.11a	0.081	0.039	3.58	12.592	13.000	0.089	2020/12/17
Back Side	120/5600	802.11a	0.104	0.055	-2.35	12.592	13.000	0.114	2020/12/17
Right Side	120/5600	802.11a	0.087	0.042	2.33	12.592	13.000	0.096	2020/12/17
Top Side	120/5600	802.11a	0.035	0.014	0.52	12.592	13.000	0.038	2020/12/17
MIMO									
Front Side	120/5600	802.11n20	0.195	0.108	-1.40	13.383	13.500	0.200	2020/12/17
Back Side	120/5600	802.11n20	0.248	0.131	1.32	13.383	13.500	0.255	2020/12/17
Right Side	120/5600	802.11n20	0.192	0.101	-1.59	13.383	13.500	0.197	2020/12/17
Top Side	120/5600	802.11n20	0.099	0.051	-3.46	13.383	13.500	0.102	2020/12/17

NOTE: Hotspot SAR test results of WLAN 5.6G

10.1.18. SAR measurement Result of WLAN 5.8G

Test Position of Head	Test channel	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR	Date
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	/Freq.		1g	10g	(±5%)	(dBm)	(dBm)	1g (W/Kg)	
ANT1									
Left Cheek	157/5785	802.11a	0.352	0.159	2.86	9.161	10.000	0.427	2020/12/18
Left Tilt 15 Degree	157/5785	802.11a	0.194	0.089	-0.27	9.161	10.000	0.235	2020/12/18
Right Cheek	157/5785	802.11a	0.304	0.136	-2.55	9.161	10.000	0.369	2020/12/18
Right Tilt 15 Degree	157/5785	802.11a	0.158	0.069	0.41	9.161	10.000	0.192	2020/12/18
ANT2									
Left Cheek	157/5785	802.11a	0.452	0.179	0.04	12.101	12.500	0.495	2020/12/18
Left Tilt 15 Degree	157/5785	802.11a	0.242	0.092	0.90	12.101	12.500	0.265	2020/12/18
Right Cheek	157/5785	802.11a	0.424	0.171	-1.86	12.101	12.500	0.465	2020/12/18
Right Tilt 15 Degree	157/5785	802.11a	0.224	0.088	1.92	12.101	12.500	0.246	2020/12/18
MIMO									
Left Cheek	157/5785	802.11ac20	0.634	0.213	-1.04	11.095	13.500	1.103	2020/12/18
Left Tilt 15 Degree	157/5785	802.11ac20	0.327	0.109	3.97	11.095	13.500	0.569	2020/12/18
Right Cheek	157/5785	802.11ac20	0.545	0.183	-1.44	11.095	13.500	0.948	2020/12/18
Right Tilt 15 Degree	157/5785	802.11ac20	0.262	0.091	-2.13	11.095	13.500	0.456	2020/12/18

NOTE: Head SAR test results of WLAN 5.8G

Test Position of Body-Worn with 5mm	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					
ANT 1									
Front Side	157/5785	802.11a	0.125	0.073	-2.99	9.161	10.000	0.152	2020/12/18
Back Side	157/5785	802.11a	0.163	0.089	1.15	9.161	10.000	0.198	2020/12/18
ANT 2									
Front Side	157/5785	802.11a	0.149	0.078	-4.37	12.101	12.500	0.163	2020/12/18
Back Side	157/5785	802.11a	0.193	0.106	4.34	12.101	12.500	0.212	2020/12/18
MIMO									
Front Side	157/5785	802.11ac20	0.169	0.090	-1.22	11.095	13.500	0.294	2020/12/18
Back Side	157/5785	802.11ac20	0.235	0.122	0.73	11.095	13.500	0.409	2020/12/18

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

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date
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Position of Hotspot with 5mm	channel /Freq.		(W/kg)		Drift ($\pm 5\%$)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
ANT 1									
Front Side	157/5785	802.11a	0.125	0.073	-2.99	9.161	10.000	0.152	2020/12/18
Back Side	157/5785	802.11a	0.163	0.089	1.15	9.161	10.000	0.198	2020/12/18
Right Side	157/5785	802.11a	0.123	0.066	-4.76	9.161	10.000	0.149	2020/12/18
Top Side	157/5785	802.11a	0.057	0.034	-4.76	9.161	10.000	0.069	2020/12/18
ANT 2									
Front Side	157/5785	802.11a	0.149	0.078	-4.37	12.101	12.500	0.163	2020/12/18
Back Side	157/5785	802.11a	0.193	0.106	4.34	12.101	12.500	0.212	2020/12/18
Right Side	157/5785	802.11a	0.151	0.087	1.23	12.101	12.500	0.166	2020/12/18
Top Side	157/5785	802.11a	0.073	0.037	-2.61	12.101	12.500	0.080	2020/12/18
MIMO									
Front Side	157/5785	802.11ac20	0.169	0.090	-1.22	11.095	13.500	0.294	2020/12/18
Back Side	157/5785	802.11ac20	0.235	0.122	0.73	11.095	13.500	0.409	2020/12/18
Right Side	157/5785	802.11ac20	0.192	0.101	-3.60	11.095	13.500	0.334	2020/12/18
Top Side	157/5785	802.11ac20	0.089	0.043	4.17	11.095	13.500	0.155	2020/12/18

NOTE: Hotspot SAR test results of WLAN 5.8G

10.1.19. SAR measurement Result of Bluetooth

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	39/2441	1DH5	0.029	0.024	-2.29	9.908	10.000	0.030	2020/12/15
Left Tilt 15 Degree	39/2441	1DH5	0.015	0.013	0.29	9.908	10.000	0.015	2020/12/15
Right Cheek	39/2441	1DH5	0.026	0.020	-4.45	9.908	10.000	0.027	2020/12/15
Right Tilt 15 Degree	39/2441	1DH5	0.012	0.012	3.25	9.908	10.000	0.012	2020/12/15

NOTE: Head SAR test results of Bluetooth

Test Position of Body-Worn with 5mm	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	39/2441	1DH5	0.043	0.030	-3.23	9.908	10.000	0.044	2020/12/15
Back Side	39/2441	1DH5	0.070	0.047	0.87	9.908	10.000	0.071	2020/12/15

NOTE: Body-Worn SAR test results of Bluetooth

Test Position of Hotspot with 5mm	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	39/2441	1DH5	0.043	0.030	-3.23	9.908	10.000	0.044	2020/12/15
Back Side	39/2441	1DH5	0.070	0.047	0.87	9.908	10.000	0.071	2020/12/15
Right Side	39/2441	1DH5	0.017	0.012	-1.53	9.908	10.000	0.017	2020/12/15
Top Side	39/2441	1DH5	0.024	0.015	-4.73	9.908	10.000	0.025	2020/12/15

NOTE: Hotspot SAR test results of Bluetooth

10.2. SAR Summation Scenario

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

- Scalar SAR summation < 1.6W/kg.
- $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	WLAN 2.4G			
Head	Left Cheek	0.223	0.300	0.523	N/A	N/A
	Left Tilt 15 Degree	0.130	0.174	0.304	N/A	N/A
	Right Cheek	0.195	0.272	0.467	N/A	N/A
	Right Tilt 15 Degree	0.097	0.139	0.236	N/A	N/A
Body-Worn	Front Side	0.682	0.056	0.738	N/A	N/A
	Back Side	0.851	0.079	0.930	N/A	N/A
Hotspot	Front Side	0.682	0.056	0.738	N/A	N/A
	Back Side	0.851	0.079	0.930	N/A	N/A
	Left Side	0.366	N/A	0.366	N/A	N/A
	Right Side	0.309	0.060	0.369	N/A	N/A
	Top Side	0.103	0.028	0.131	N/A	N/A
	Bottom Side	0.600	N/A	0.600	N/A	N/A

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

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	WLAN 5G			
Head	Left Cheek	0.223	1.103	1.326	N/A	N/A
	Left Tilt 15 Degree	0.130	0.569	0.699	N/A	N/A
	Right Cheek	0.195	0.948	1.143	N/A	N/A

	Right Tilt 15 Degree	0.097	0.456	0.553	N/A	N/A
Body-Worn	Front Side	0.682	0.294	0.976	N/A	N/A
	Back Side	0.851	0.409	1.260	N/A	N/A
Hotspot	Front Side	0.682	0.294	0.976	N/A	N/A
	Back Side	0.851	0.409	1.260	N/A	N/A
	Left Side	0.366	N/A	0.366	N/A	N/A
	Right Side	0.309	0.334	0.643	N/A	N/A
	Top Side	0.103	0.155	0.258	N/A	N/A
	Bottom Side	0.600	N/A	0.600	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WWAN MAX and WLAN 5G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	Bluetooth EDR			
Head	Left Cheek	0.223	0.030	0.253	N/A	N/A
	Left Tilt 15 Degree	0.130	0.015	0.145	N/A	N/A
	Right Cheek	0.195	0.027	0.222	N/A	N/A
	Right Tilt 15 Degree	0.097	0.012	0.109	N/A	N/A
Body-Worn	Front Side	0.682	0.044	0.726	N/A	N/A
	Back Side	0.851	0.071	0.922	N/A	N/A
Hotspot	Front Side	0.682	0.044	0.726	N/A	N/A
	Back Side	0.851	0.071	0.922	N/A	N/A
	Left Side	0.366	N/A	0.366	N/A	N/A
	Right Side	0.309	0.017	0.326	N/A	N/A
	Top Side	0.103	0.025	0.128	N/A	N/A
	Bottom Side	0.600	N/A	0.600	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WWAN MAX and Bluetooth EDR.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	Bluetooth LE			
Head	Left Cheek	0.223	0.053	0.276	N/A	N/A
	Left Tilt 15 Degree	0.130	0.053	0.183	N/A	N/A
	Right Cheek	0.195	0.053	0.248	N/A	N/A
	Right Tilt 15 Degree	0.097	0.053	0.150	N/A	N/A
Body-Worn	Front Side	0.682	0.053	0.735	N/A	N/A
	Back Side	0.851	0.053	0.904	N/A	N/A
Hotspot	Front Side	0.682	0.053	0.735	N/A	N/A
	Back Side	0.851	0.053	0.904	N/A	N/A

	Left Side	0.366	N/A	0.366	N/A	N/A
	Right Side	0.309	0.053	0.362	N/A	N/A
	Top Side	0.103	0.053	0.156	N/A	N/A
	Bottom Side	0.600	N/A	0.600	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WWAN MAX and Bluetooth LE.

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
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MEASUREMENT 5 System Performance Check - SID2450 - Head
MEASUREMENT 6 System Performance Check - SID2600 - Head
MEASUREMENT 7 System Performance Check - SID5200 - Head
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MEASUREMENT 1

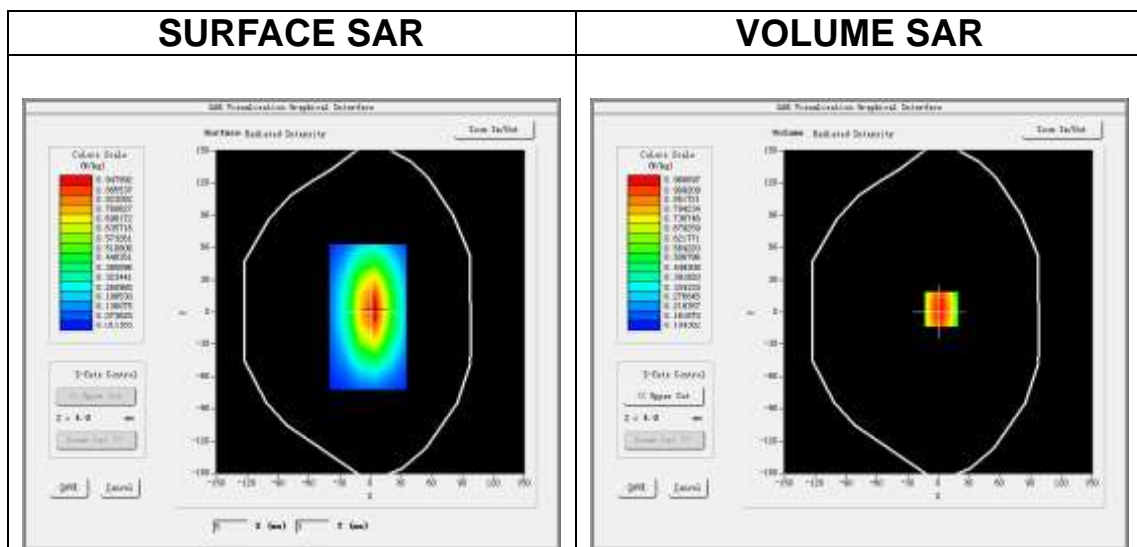
Date of measurement: 18/12/2020

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

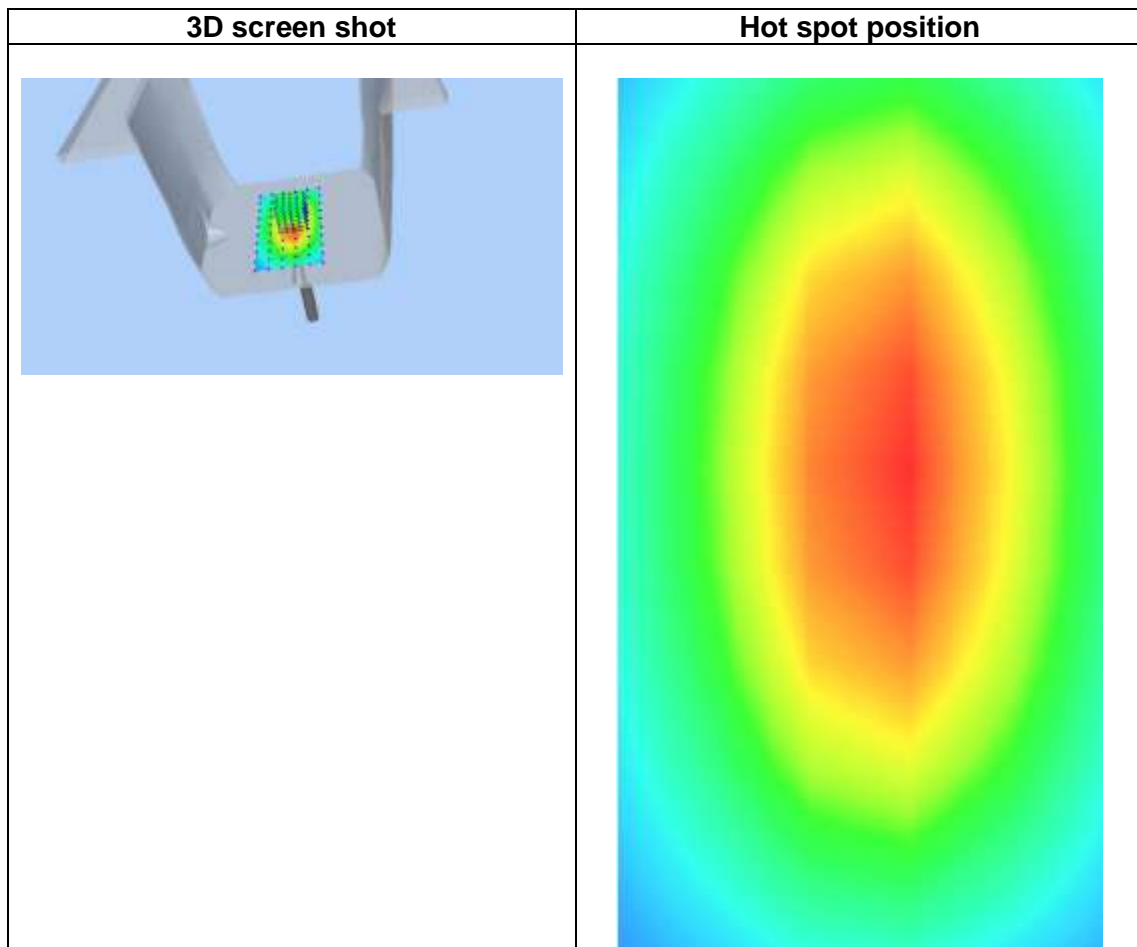
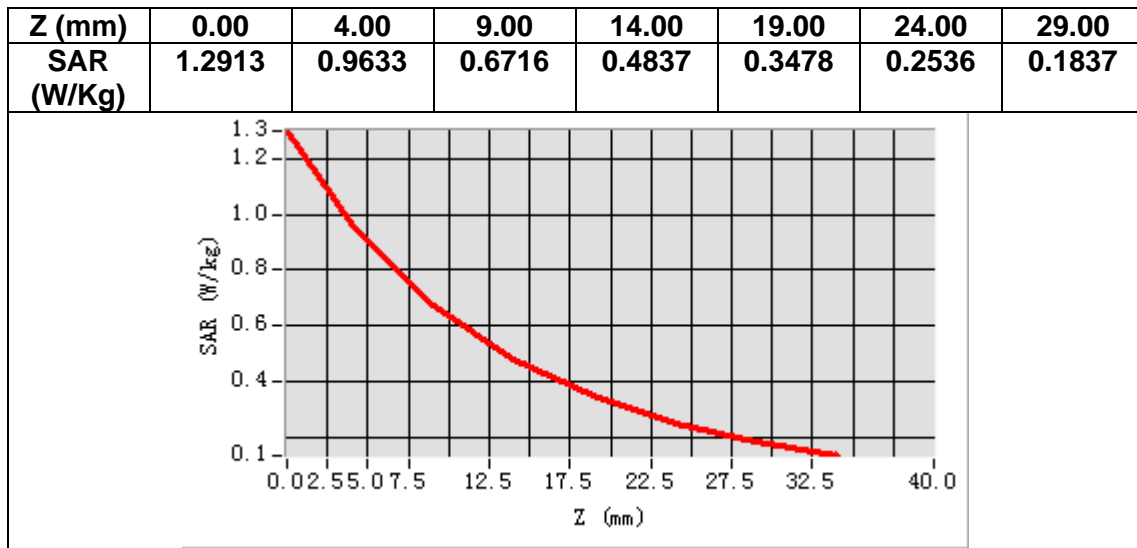
Frequency (MHz)	750.000000
Relative permittivity (real part)	42.293162
Relative permittivity (imaginary part)	22.051263
Conductivity (S/m)	0.920362
Variation (%)	-1.810000



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.555218
SAR 1g (W/Kg)	0.855062



MEASUREMENT 2

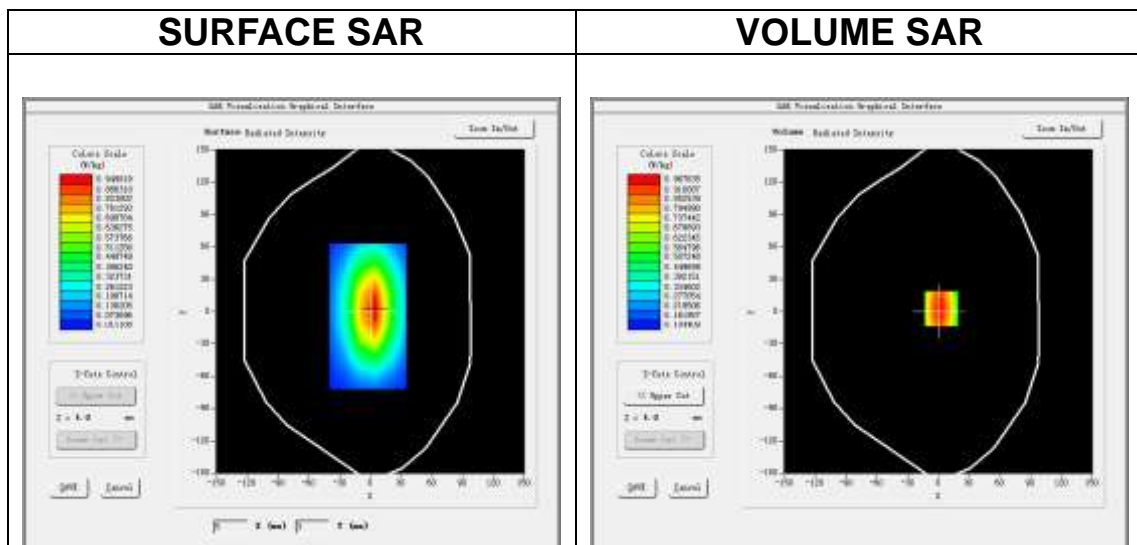
Date of measurement: 21/12/2020

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

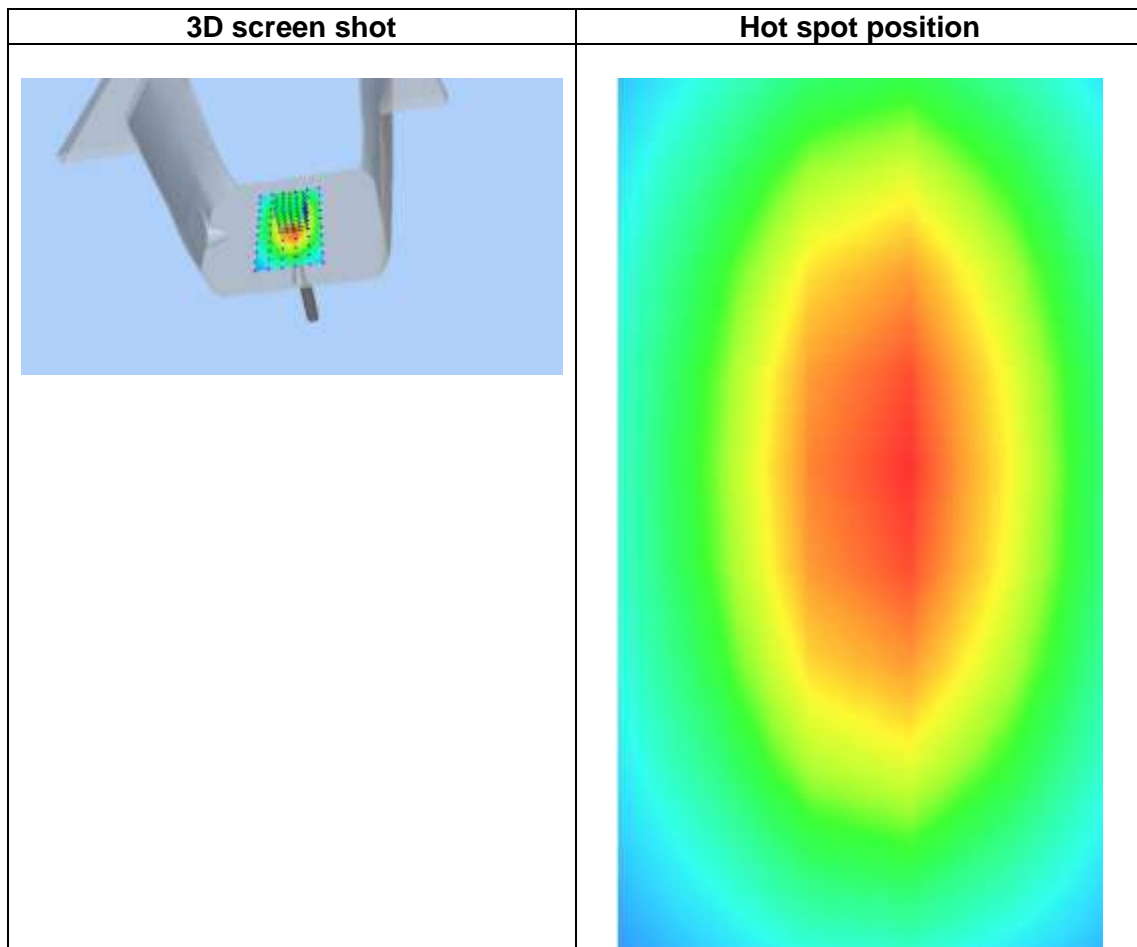
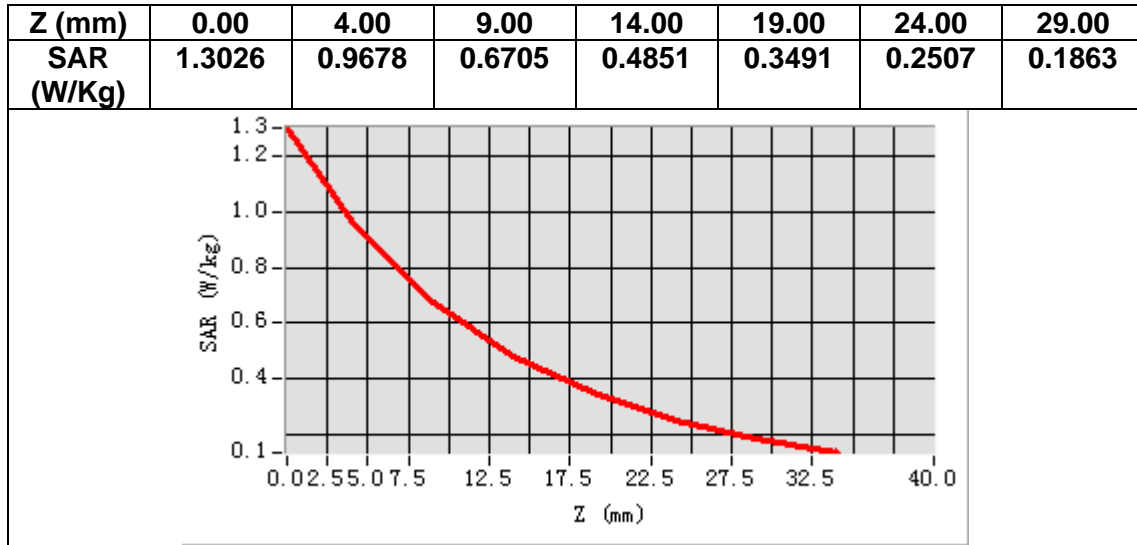
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.593500
Relative permittivity (imaginary part)	19.611602
Conductivity (S/m)	0.910502
Variation (%)	1.870000



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.589433
SAR 1g (W/Kg)	0.962035



MEASUREMENT 3

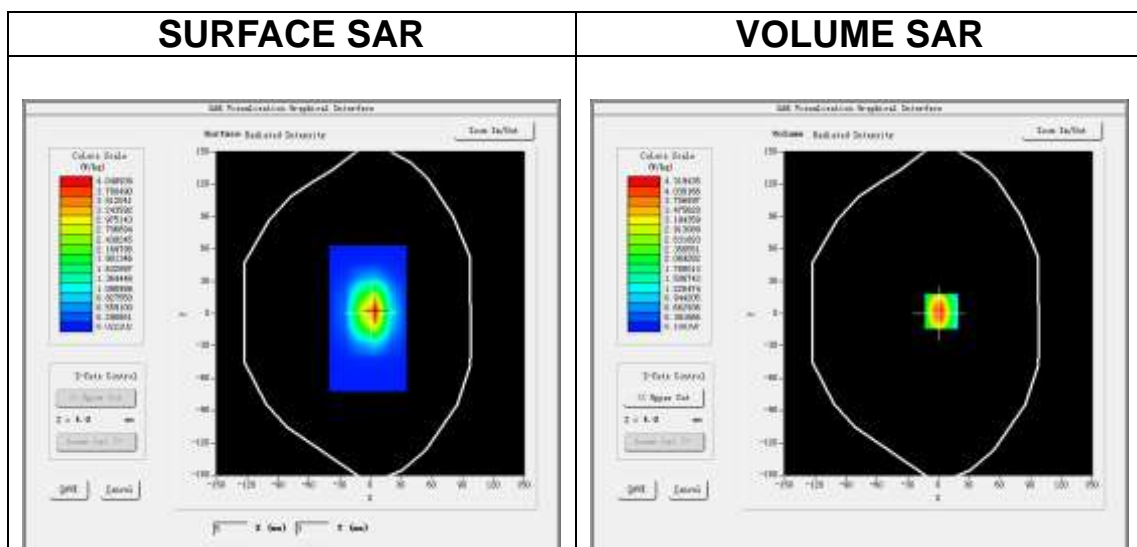
Date of measurement: 14/12/2020

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

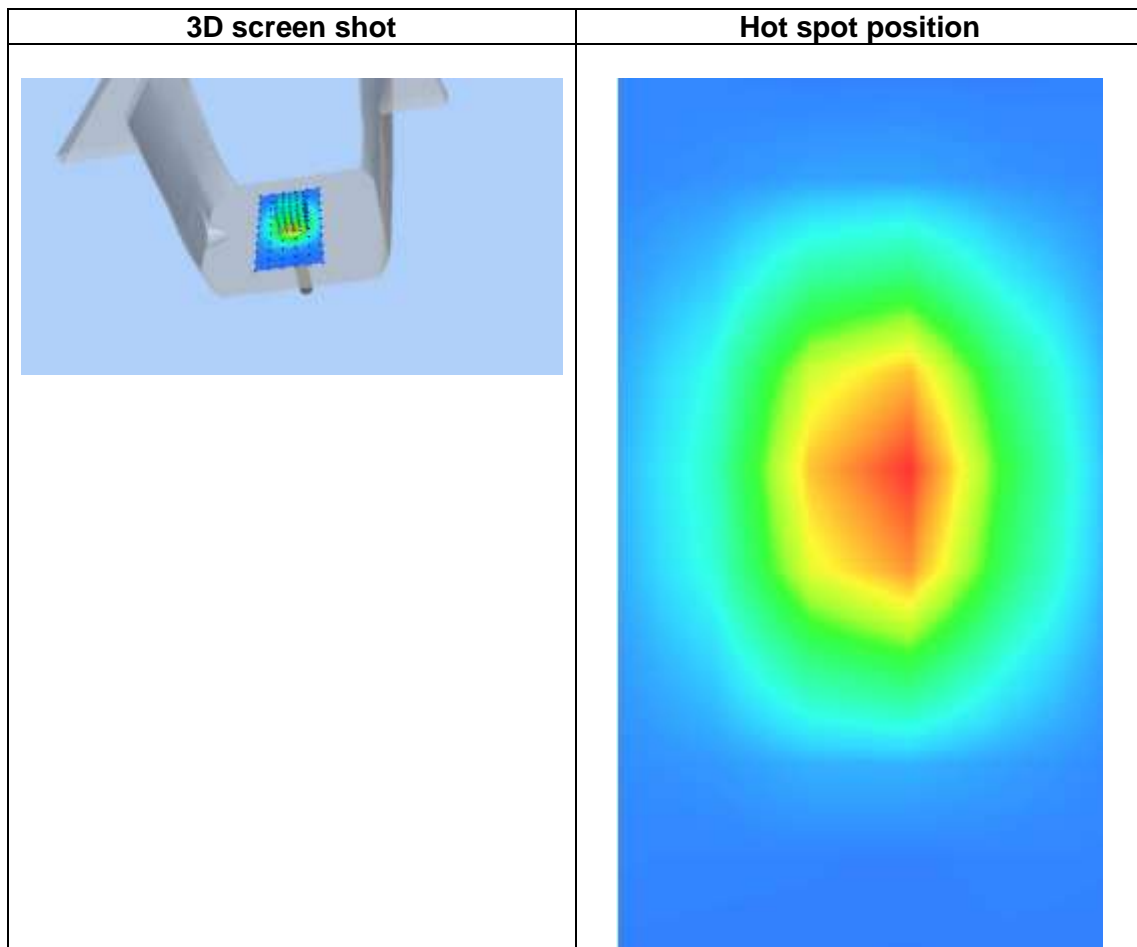
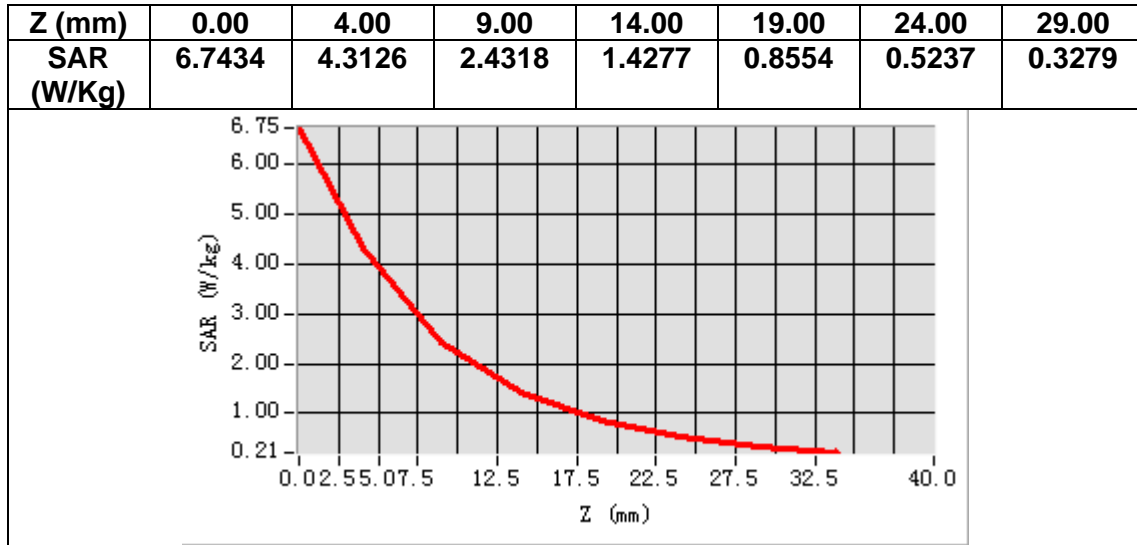
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.371237
Relative permittivity (imaginary part)	14.103229
Conductivity (S/m)	1.410365
Variation (%)	-2.113000



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	1.865397
SAR 1g (W/Kg)	3.667451



MEASUREMENT 4

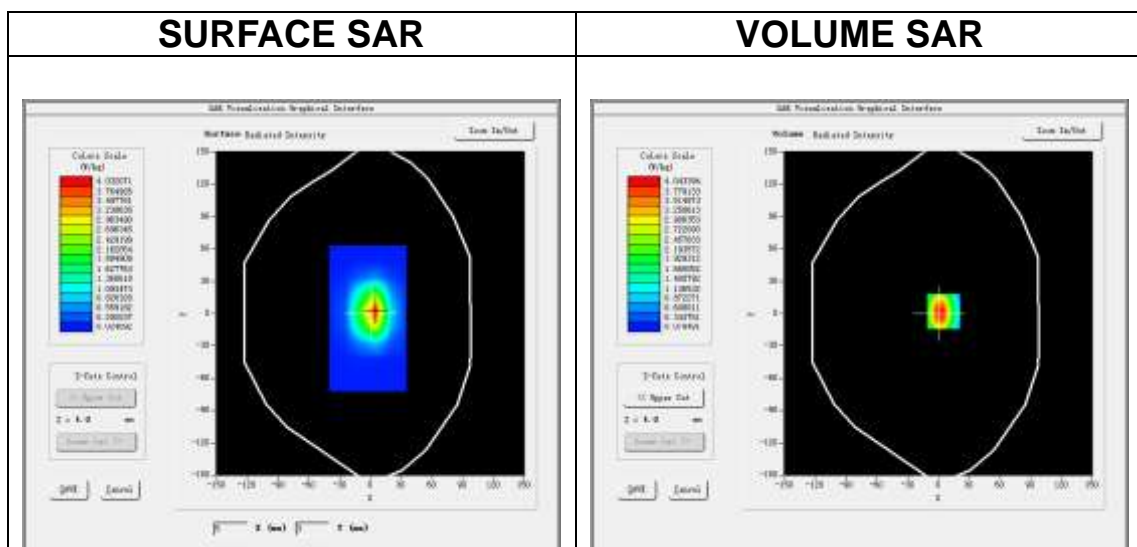
Date of measurement: 22/12/2020

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

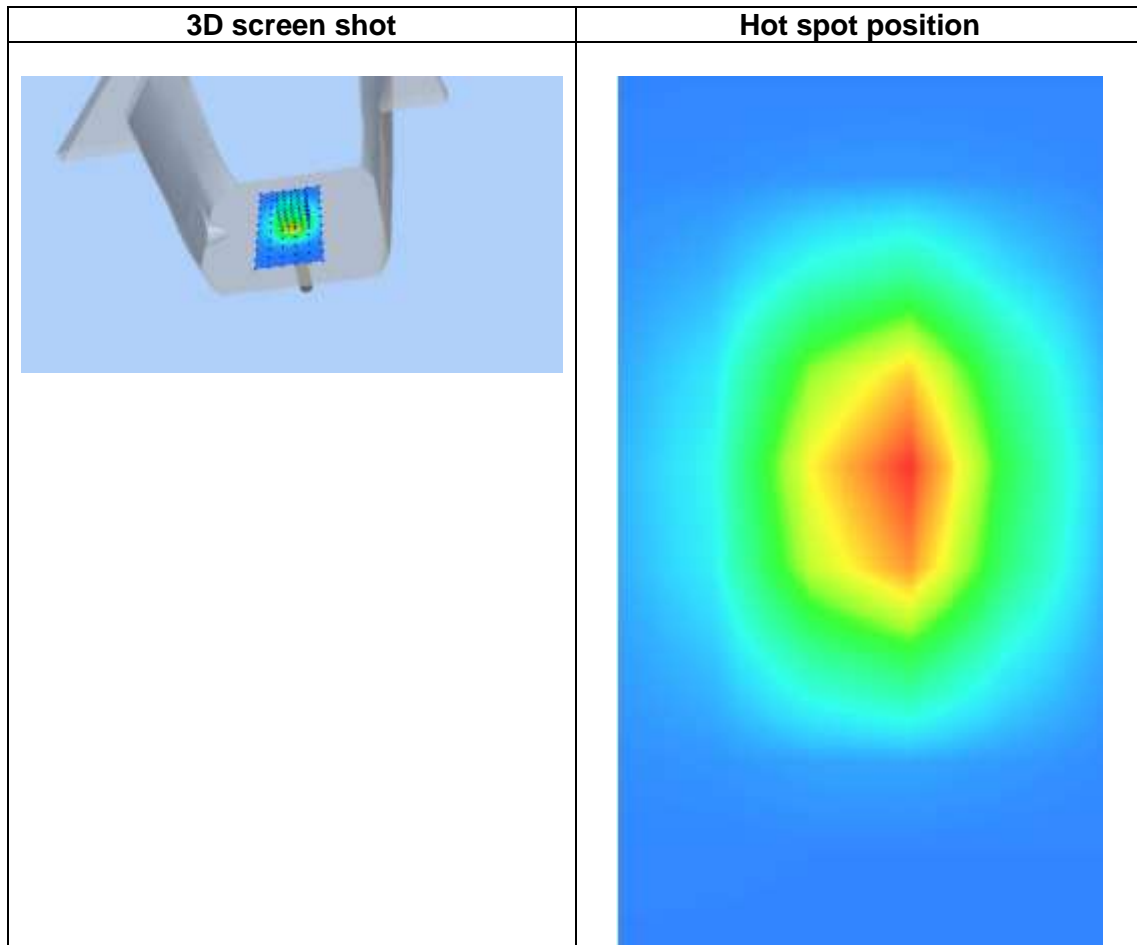
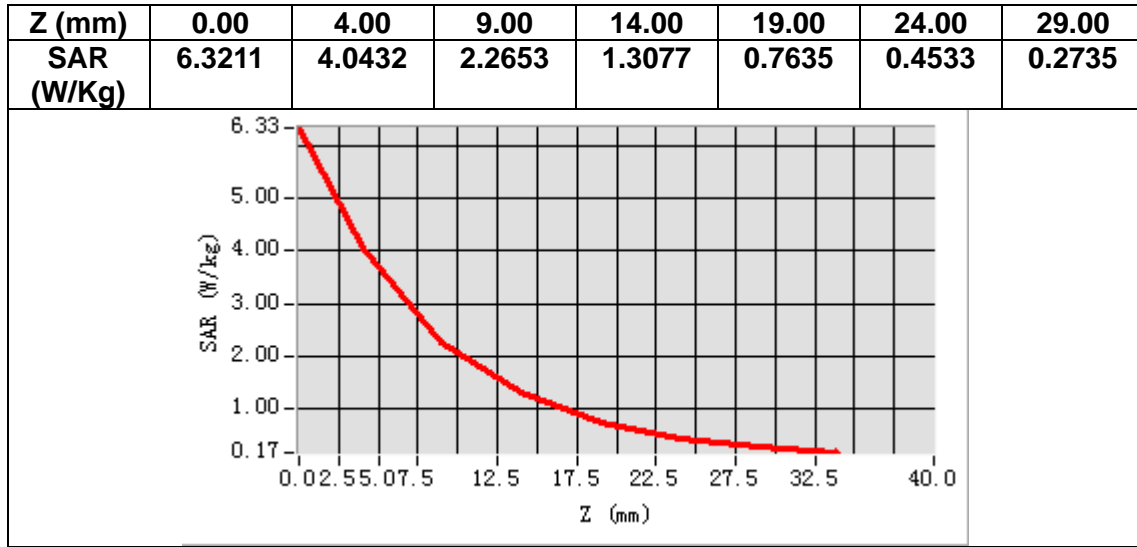
Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.131017
Relative permittivity (imaginary part)	13.523006
Conductivity (S/m)	1.430302
Variation (%)	-1.430000



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	1.903452
SAR 1g (W/Kg)	3.819361



MEASUREMENT 5

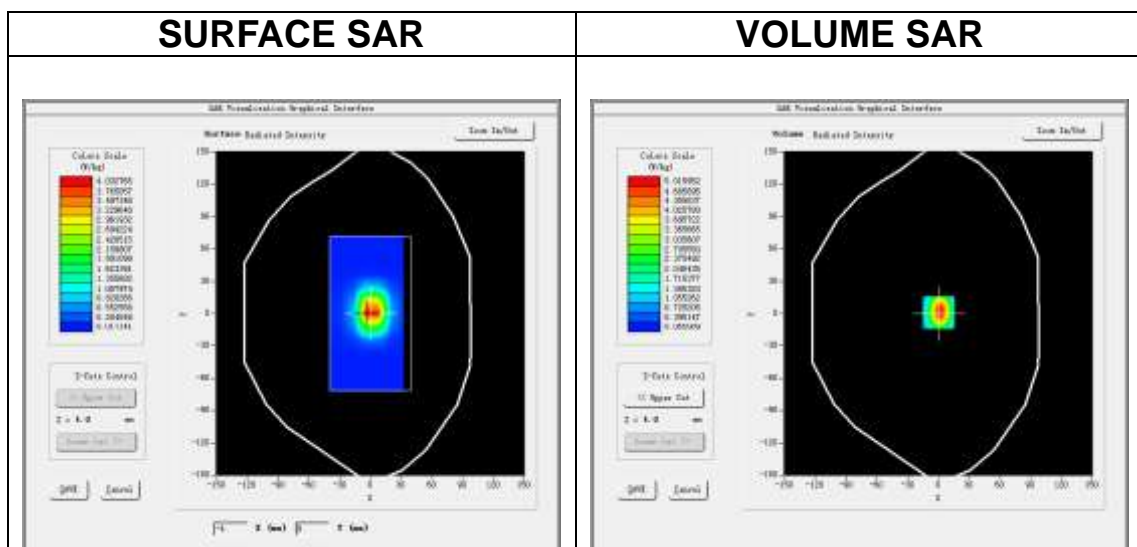
Date of measurement: 15/12/2020

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

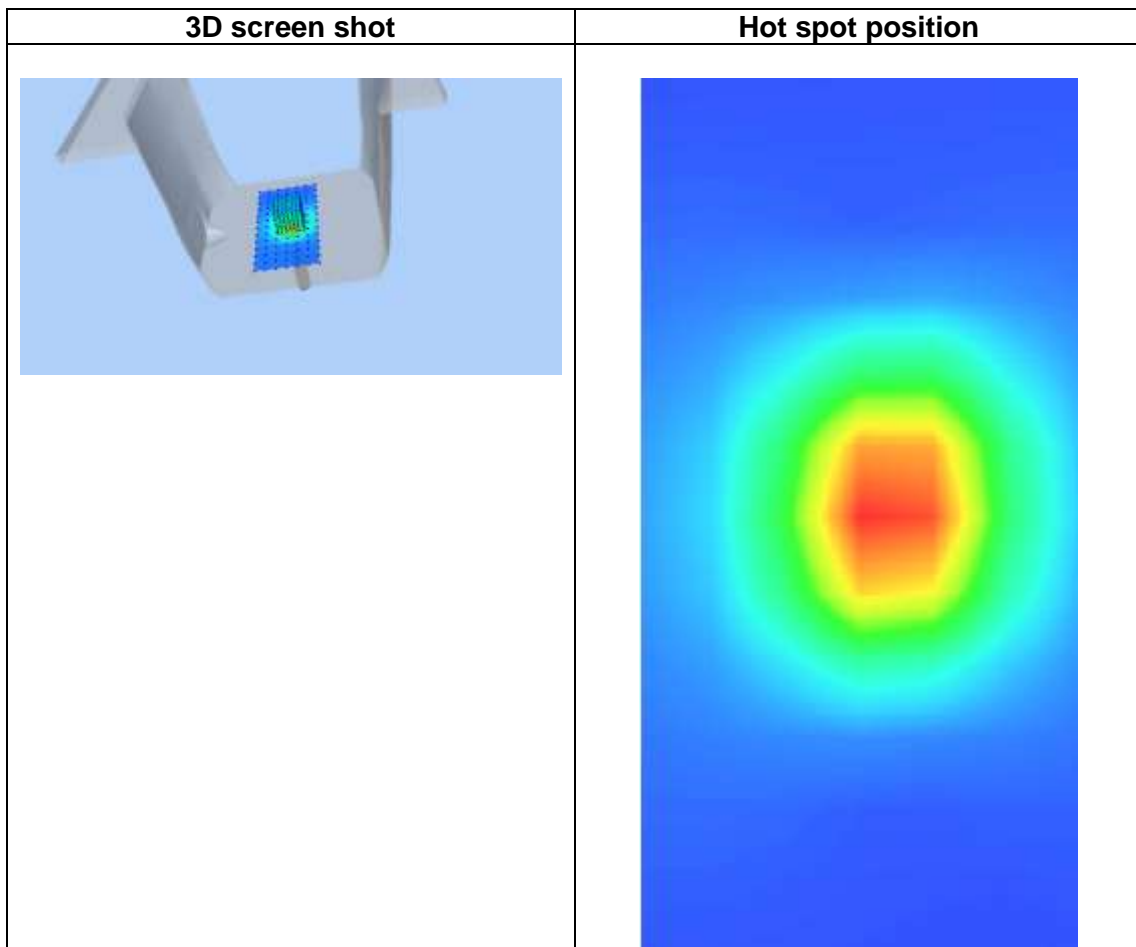
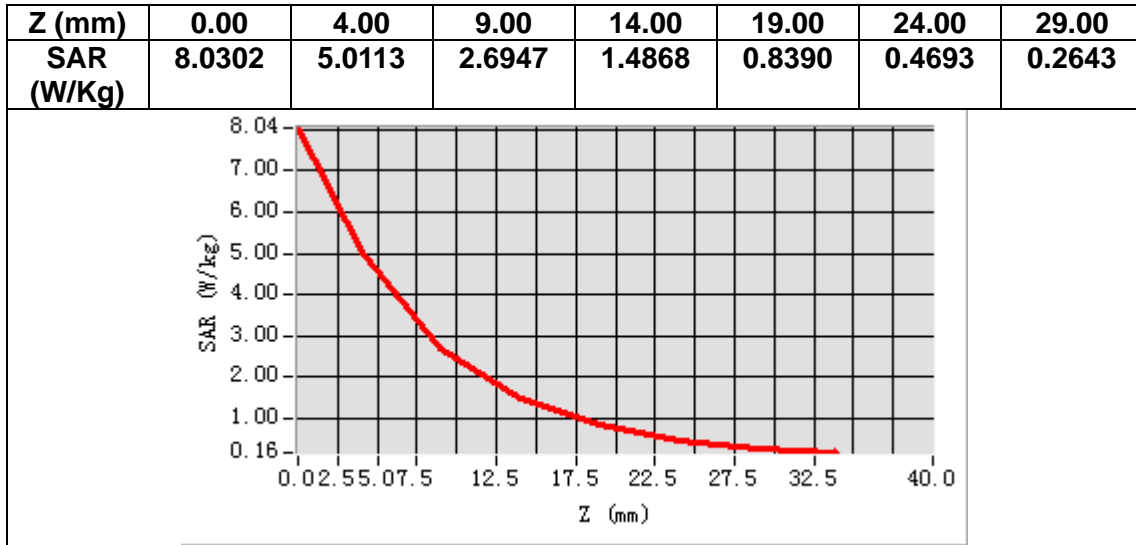
Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.170321
Relative permittivity (imaginary part)	13.602631
Conductivity (S/m)	1.850463
Variation (%)	-3.350000



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

SAR 10g (W/Kg)	2.485175
SAR 1g (W/Kg)	5.630435



MEASUREMENT 6

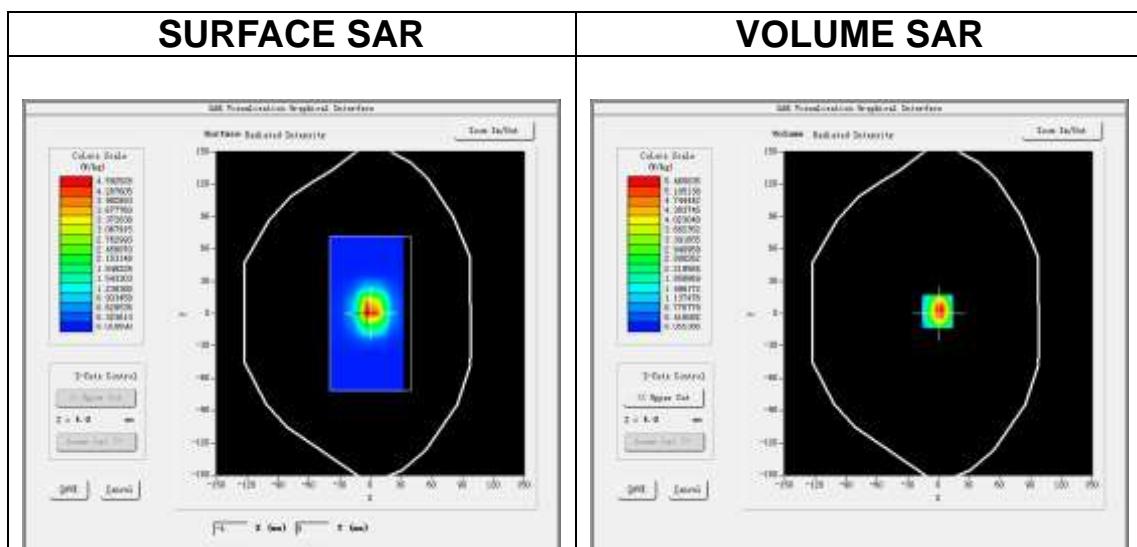
Date of measurement: 16/12/2020

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

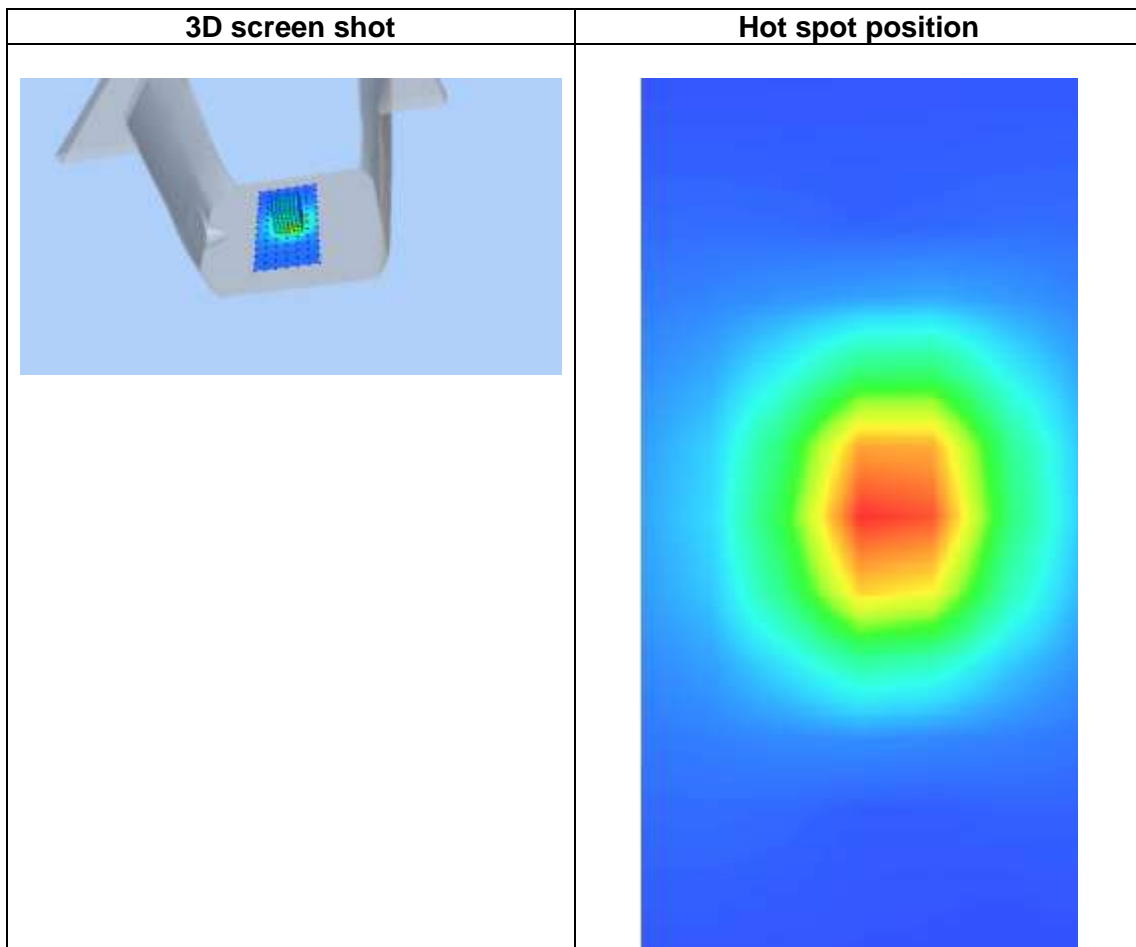
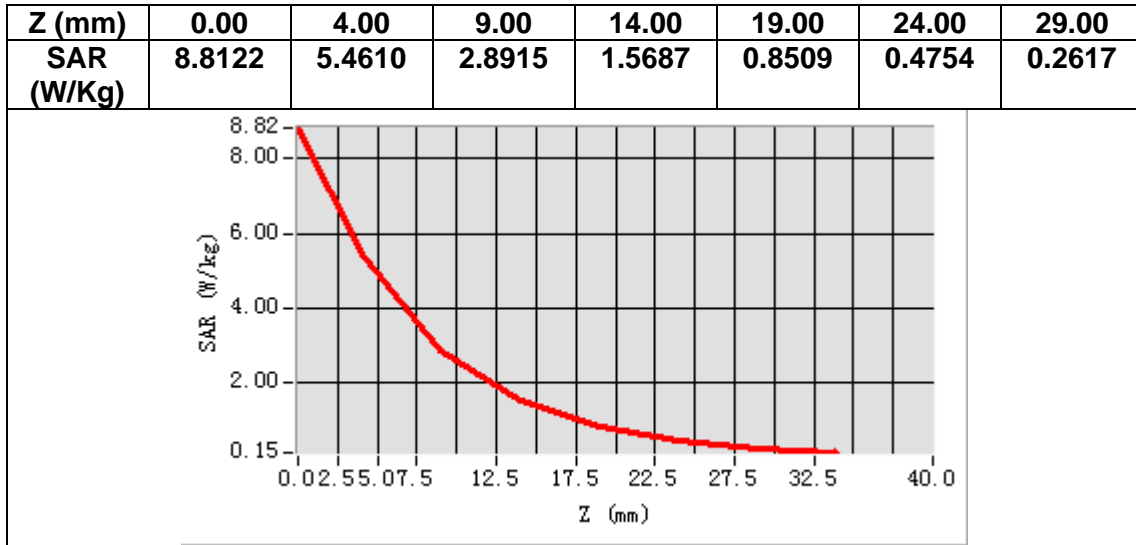
Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.732638
Relative permittivity (imaginary part)	13.923997
Conductivity (S/m)	2.013631
Variation (%)	-0.040000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.399031
SAR 1g (W/Kg)	5.994267



MEASUREMENT 7

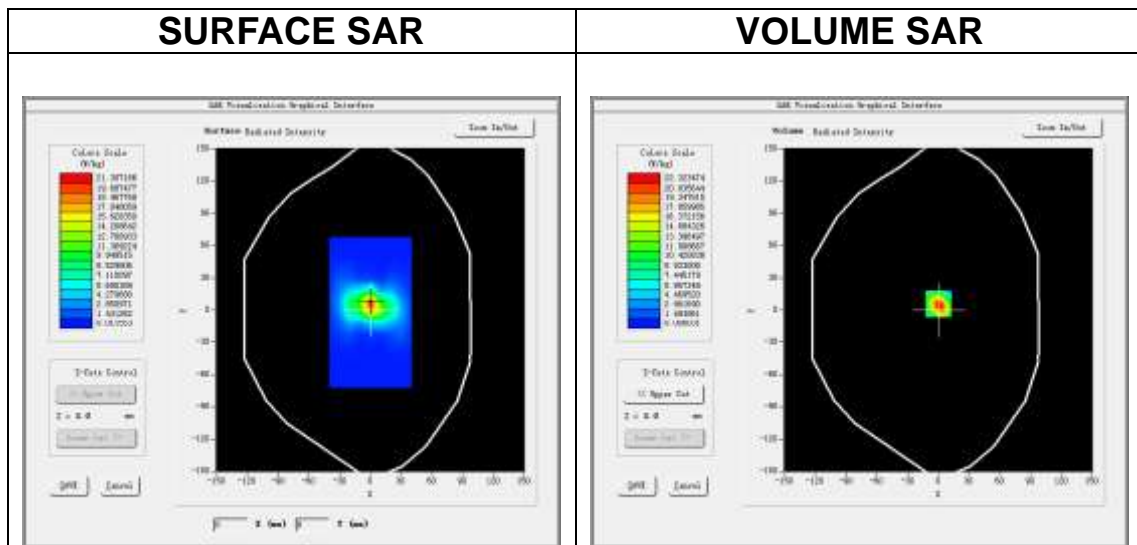
Date of measurement: 16/12/2020

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)	36.611137
Relative permittivity (imaginary part)	16.089355
Conductivity (S/m)	4.648036
Variation (%)	3.660000

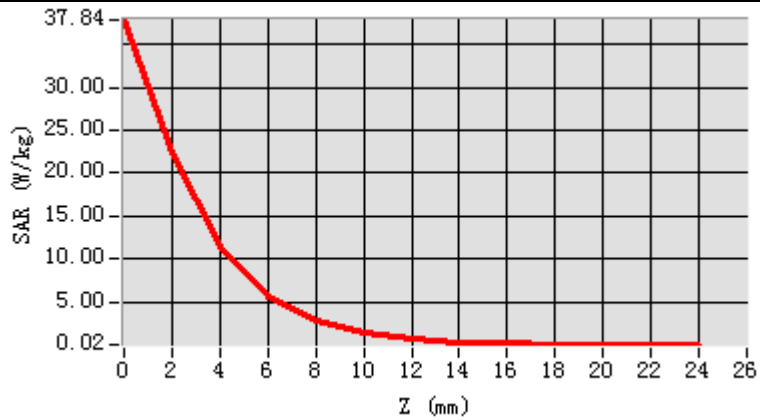


Maximum location: X=0.00, Y=6.00

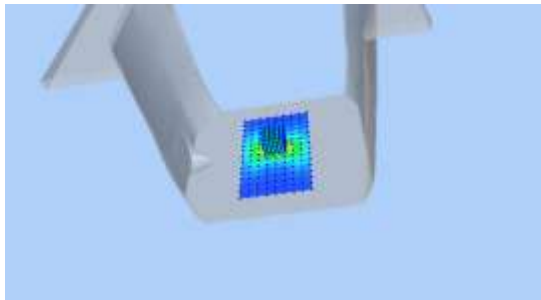
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.603495
SAR 1g (W/Kg)	15.592221

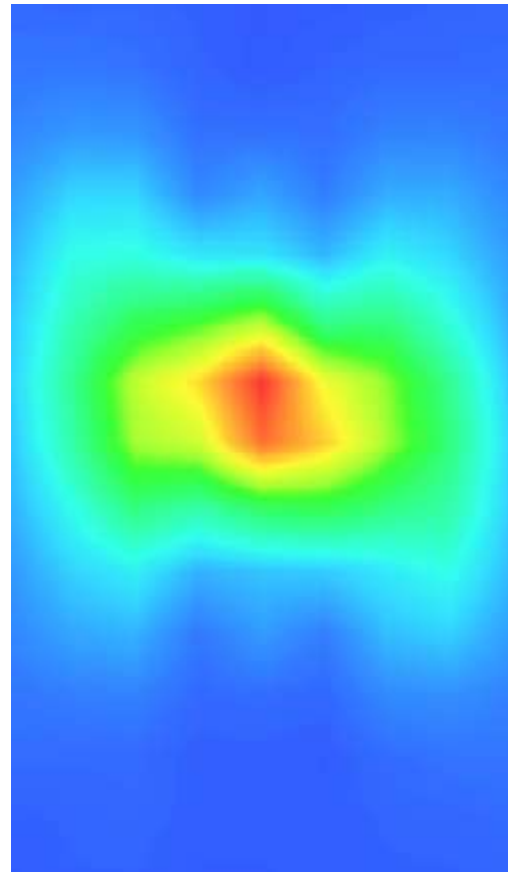
Z (m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	37.8356	22.3278	11.3730	5.6618	2.8255	1.4093	0.7124	0.3660	0.1808	0.1012	0.0513	0.0323



3D screen shot



Hot spot position



MEASUREMENT 8

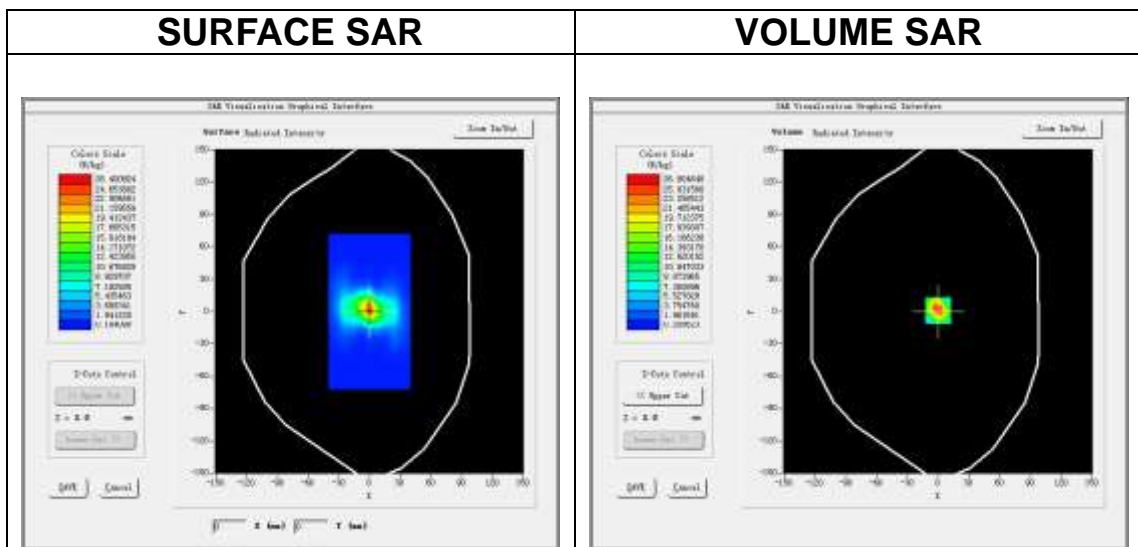
Date of measurement: 17/12/2020

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>CW5400</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5400.000000
Relative permittivity (real part)	35.943406
Relative permittivity (imaginary part)	16.534712
Conductivity (S/m)	4.960141
Variation (%)	1.350000

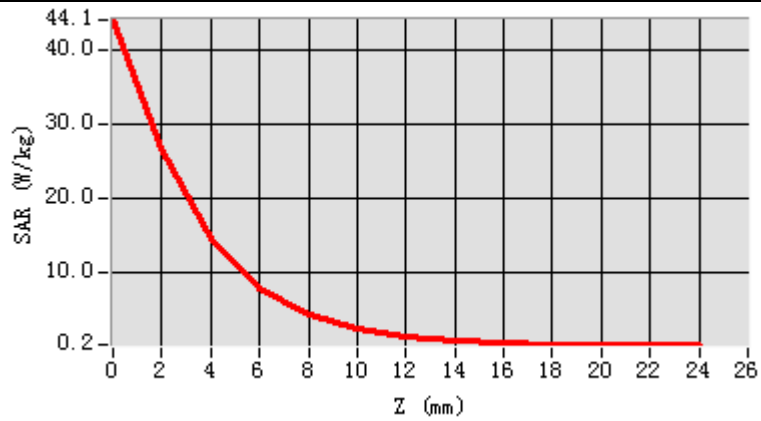


Maximum location: X=0.00, Y=1.00

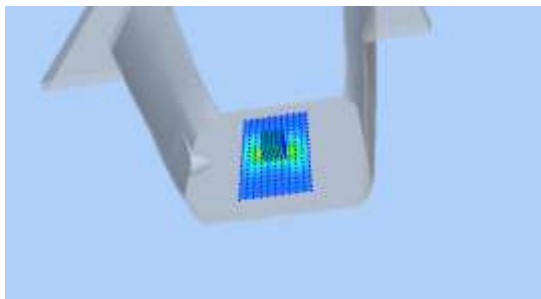
SAR Peak: 46.18 W/kg

SAR 10g (W/Kg)	5.947543
SAR 1g (W/Kg)	17.432135

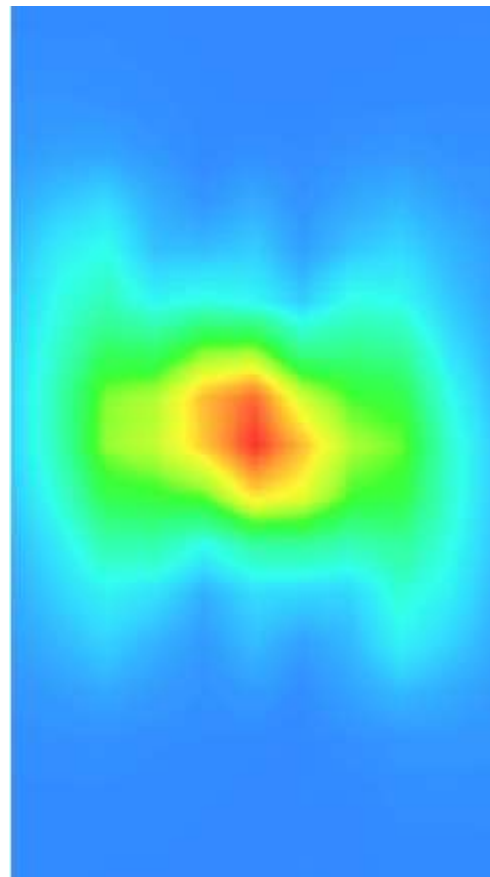
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	44.0730	26.8035	14.6104	7.8178	4.2299	2.3249	1.3238	0.7816	0.5067	0.3759	0.2858	0.2660



3D screen shot



Hot spot position



MEASUREMENT 9

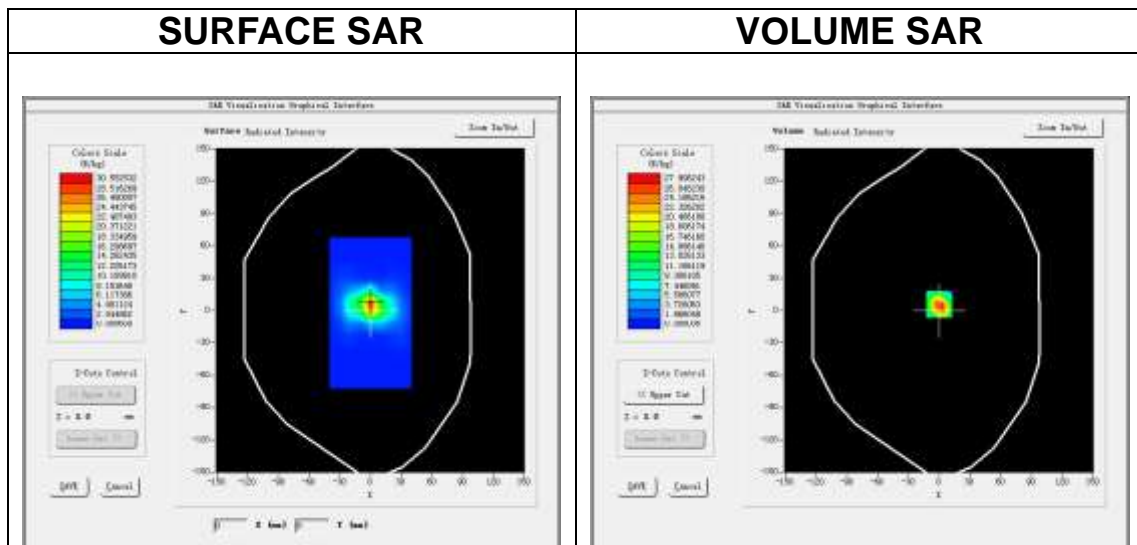
Date of measurement: 17/12/2020

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>CW5600</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.886440
Relative permittivity (imaginary part)	16.499619
Conductivity (S/m)	5.133215
Variation (%)	0.134270

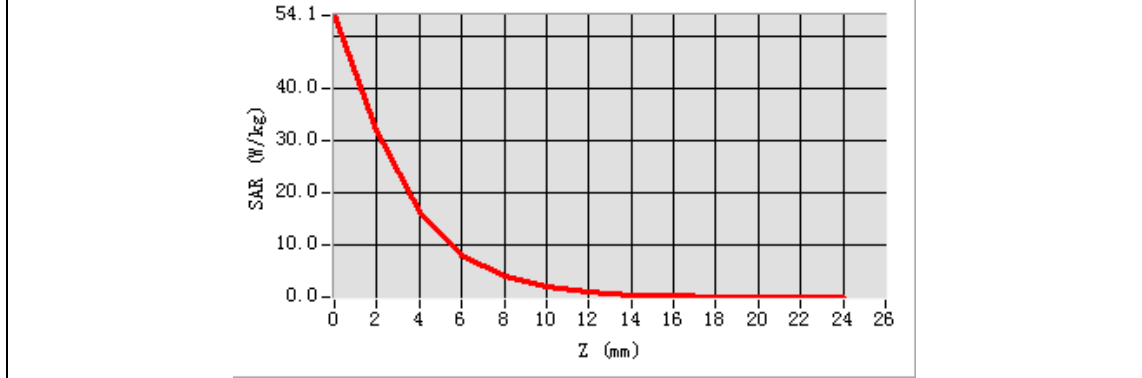


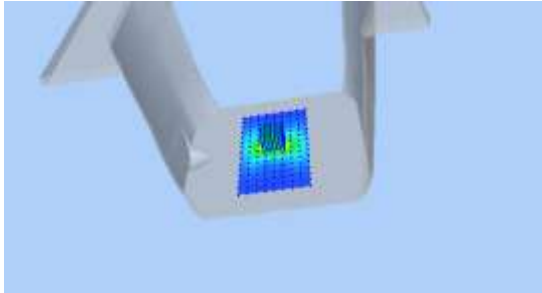
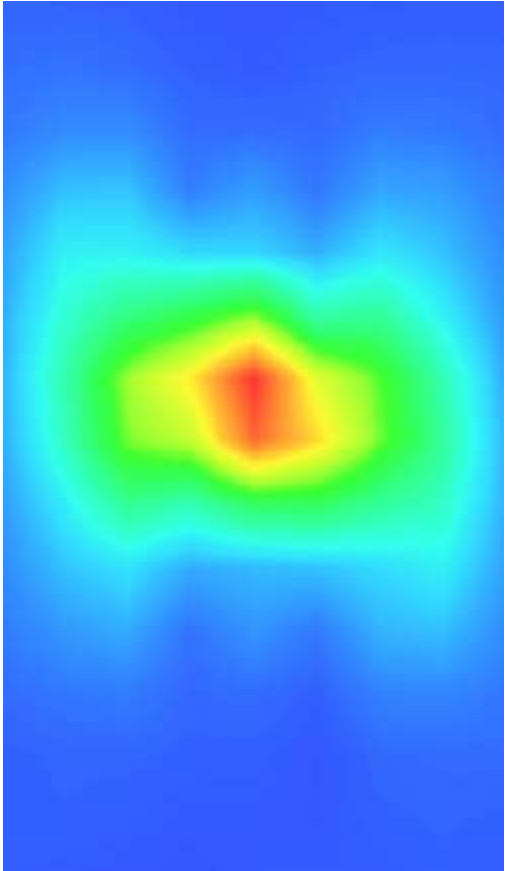
Maximum location: X=0.00, Y=6.00

SAR Peak: 51.23 W/kg

SAR 10g (W/Kg)	5.703051
SAR 1g (W/Kg)	17.760450

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SA R (W/ Kg)	54.1 388	31.9 062	16.3 510	8.17 83	4.08 24	3.81 66	1.03 45	0.46 87	0.27 29	0.13 26	0.07 55	0.05 02



3D screen shot	Hot spot position
	

MEASUREMENT 10

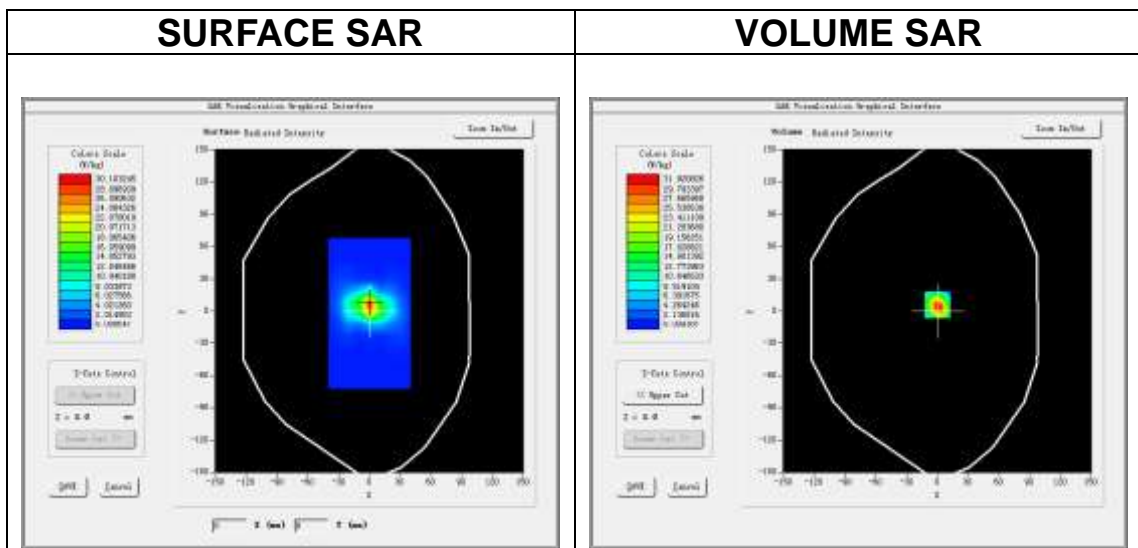
Date of measurement: 18/12/2020

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>CW5800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.071512
Relative permittivity (imaginary part)	16.513082
Conductivity (S/m)	5.320981
Variation (%)	1.880000

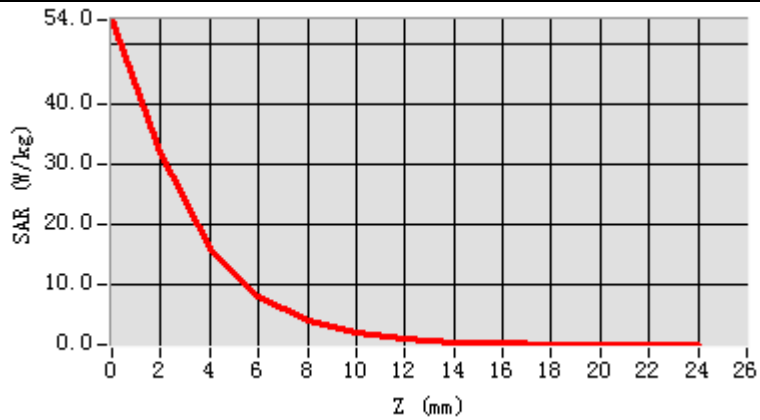


Maximum location: X=0.00, Y=6.00

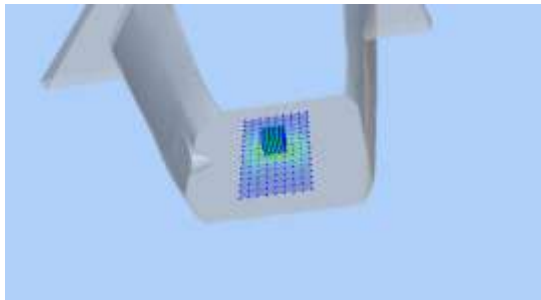
SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	6.220095
SAR 1g (W/Kg)	18.633093

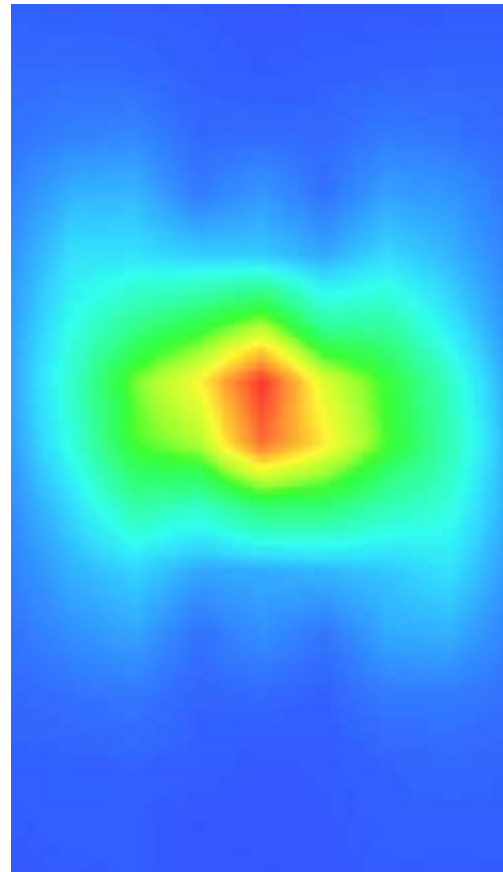
Z (m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	54.0337	31.9251	16.1709	8.1795	4.0815	2.0572	1.0329	0.5177	0.2763	0.1542	0.0782	0.0446



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 36 NR Band n41 Body
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MEASUREMENT 38 Bluetooth Body

MEASUREMENT 1

Date of measurement: 21/12/2020

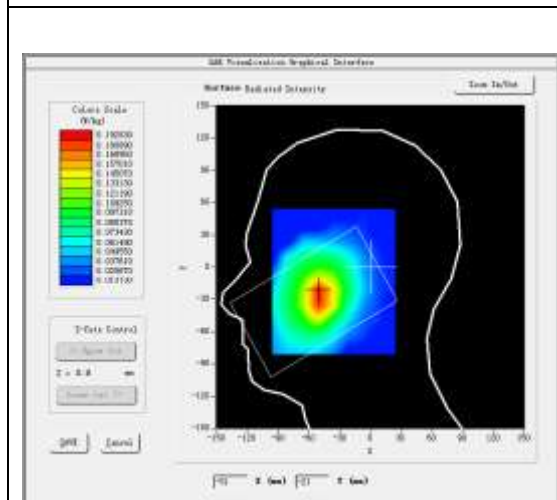
A. Experimental conditions.

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>

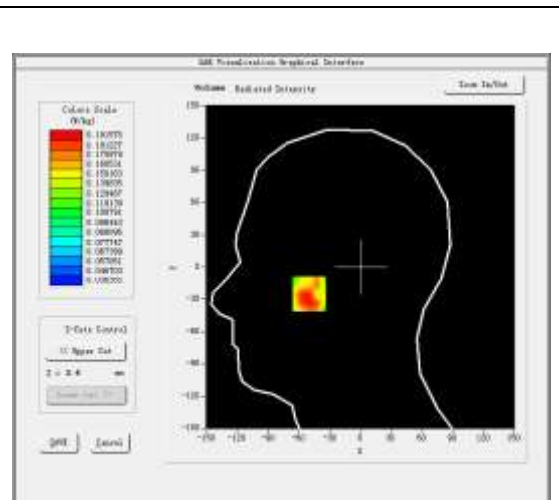
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative permittivity (real part)	41.509884
Relative permittivity (imaginary part)	19.637012
Conductivity (S/m)	0.912466
Variation (%)	1.510000

SURFACE SAR

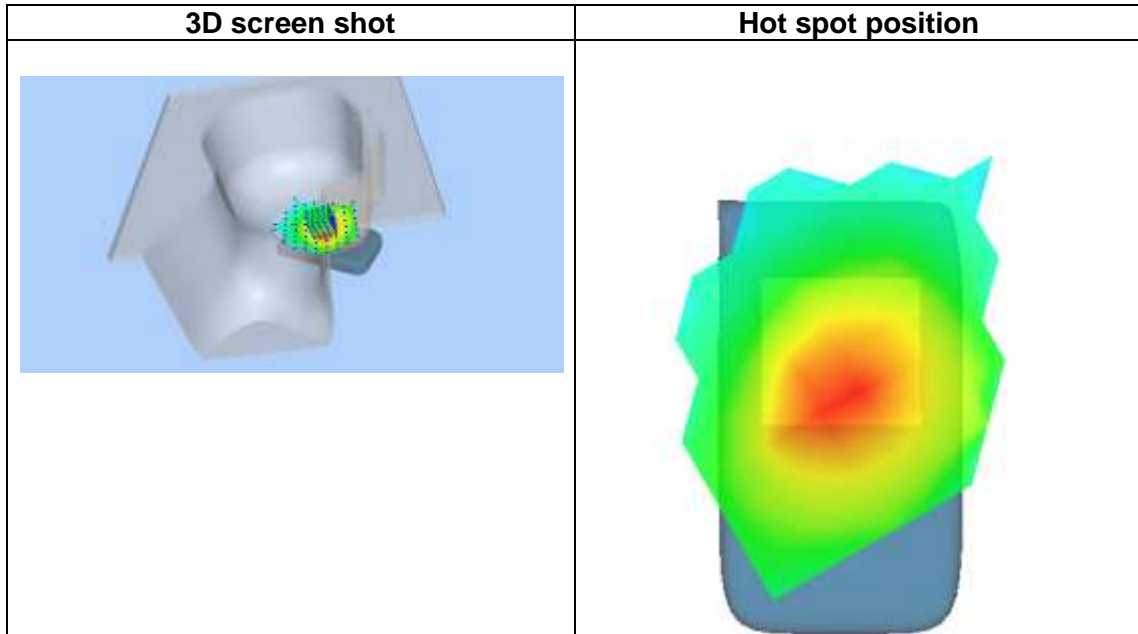
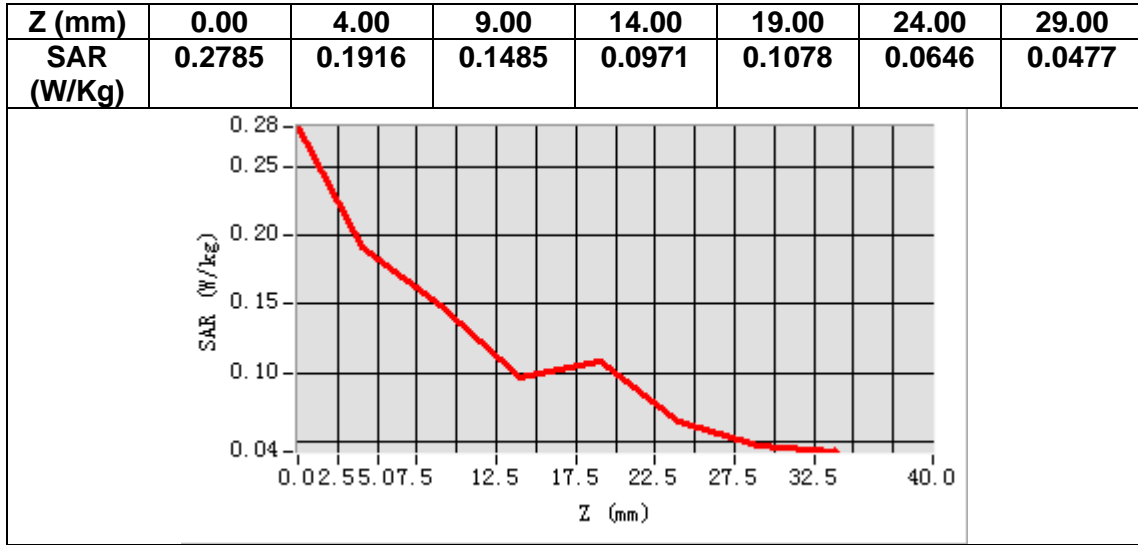


VOLUME SAR



Maximum location: X=-50.00, Y=-25.00
SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.135720
SAR 1g (W/Kg)	0.197450



MEASUREMENT 2

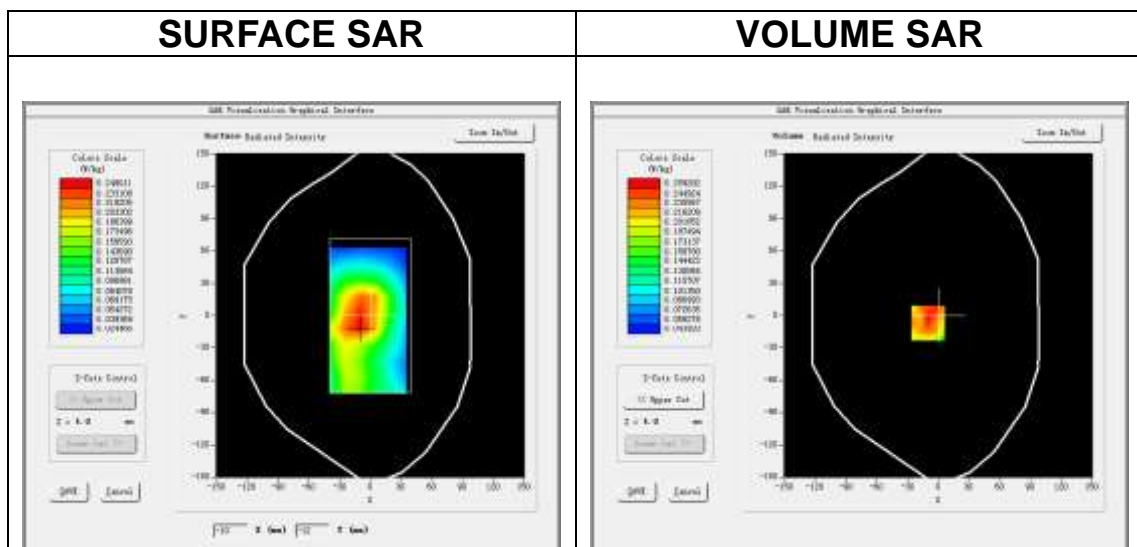
Date of measurement: 21/12/2020

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>

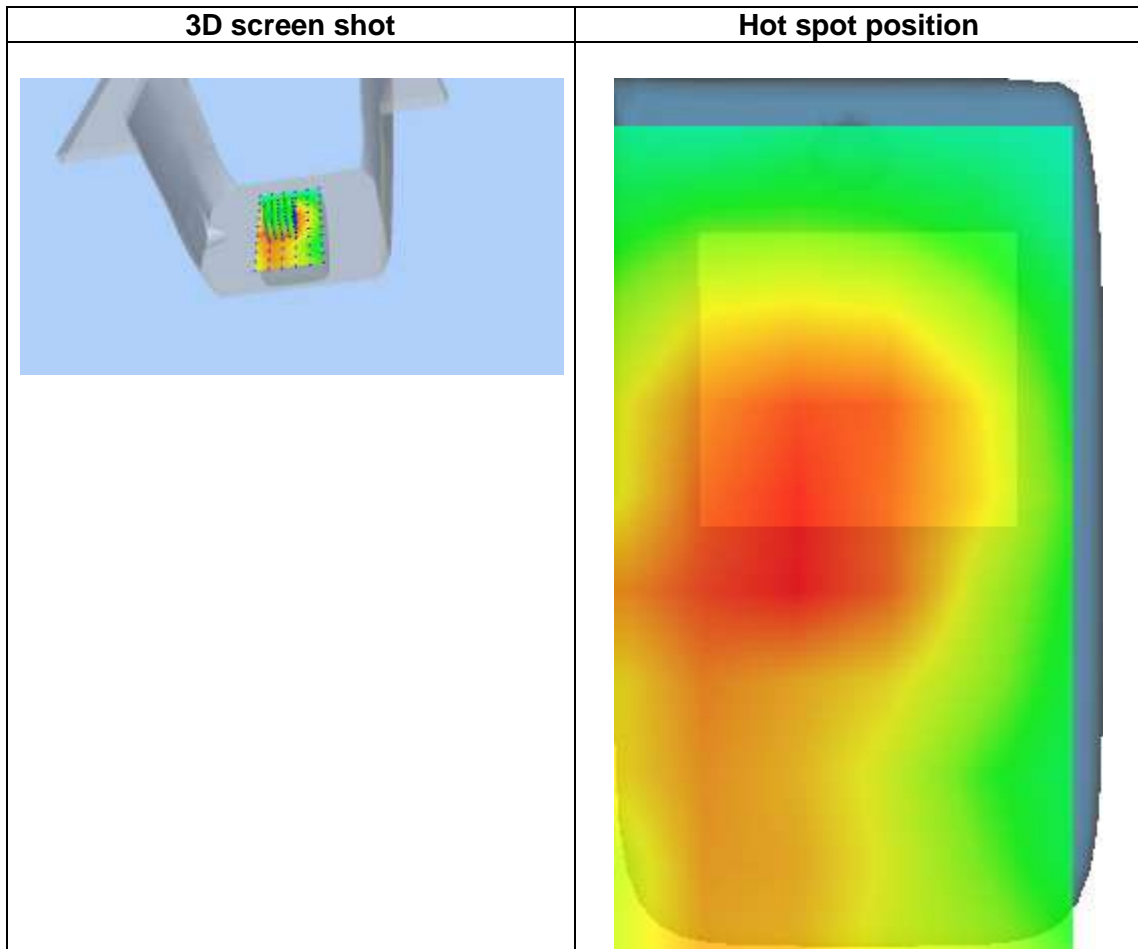
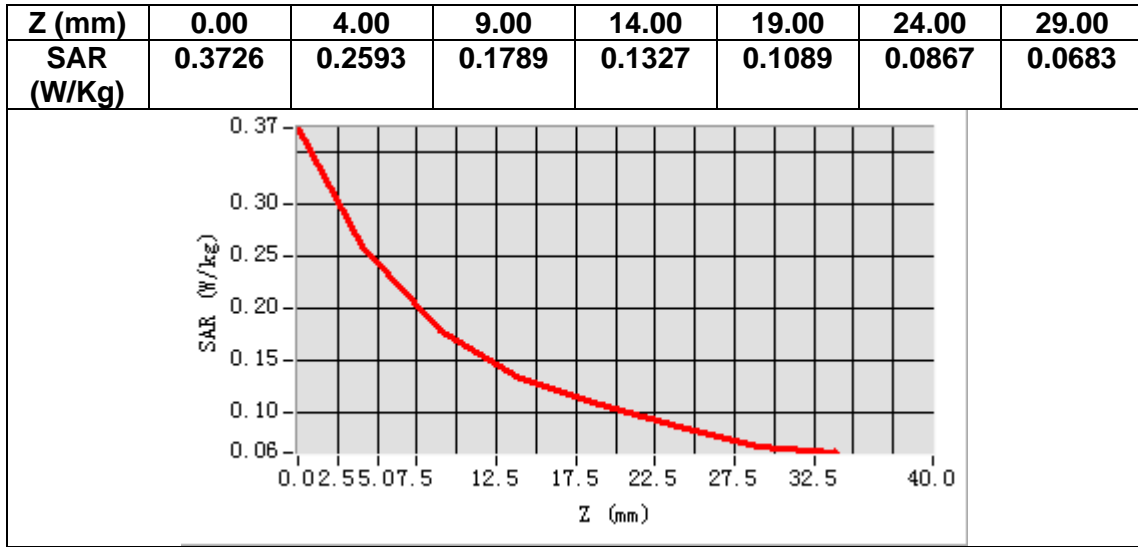
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative permittivity (real part)	41.509884
Relative permittivity (imaginary part)	19.637012
Conductivity (S/m)	0.912466
Variation (%)	1.010000



Maximum location: X=-10.00, Y=-7.00
SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.177236
SAR 1g (W/Kg)	0.258333



MEASUREMENT 3

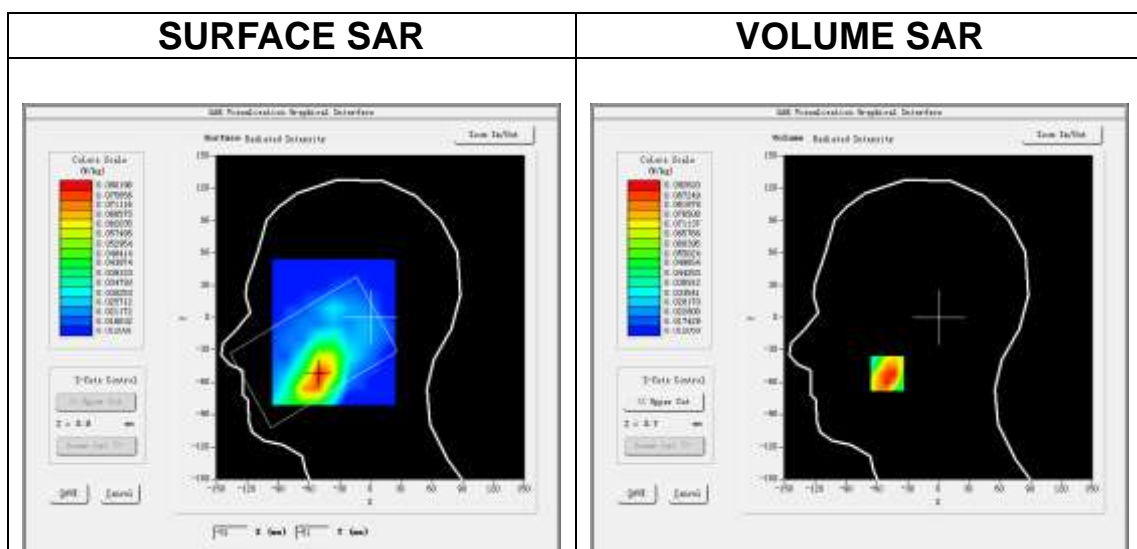
Date of measurement: 22/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

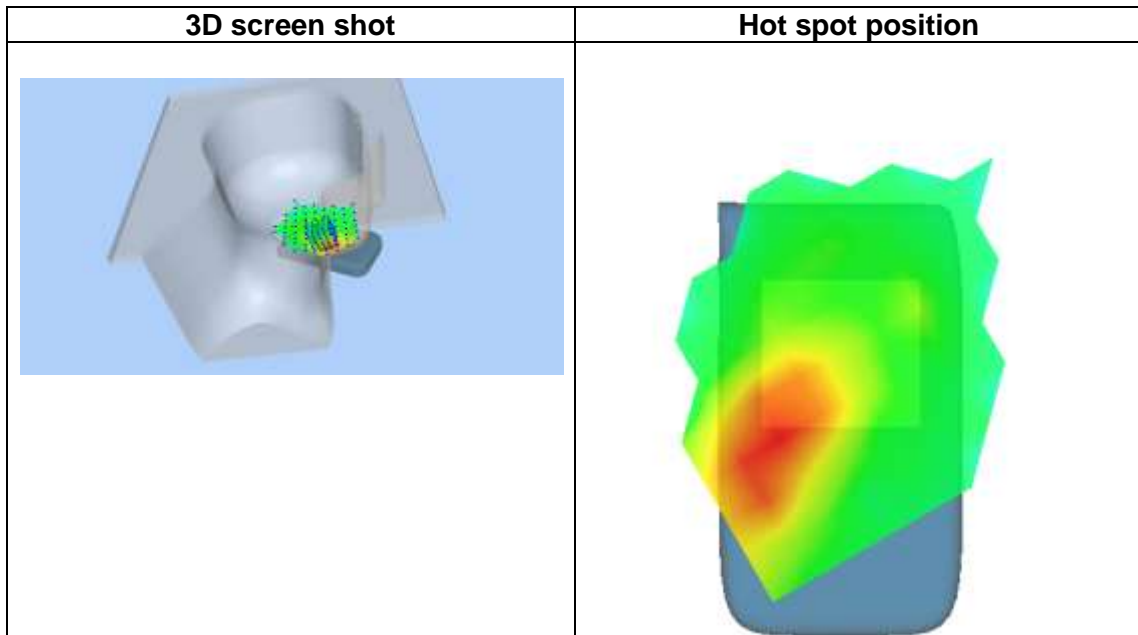
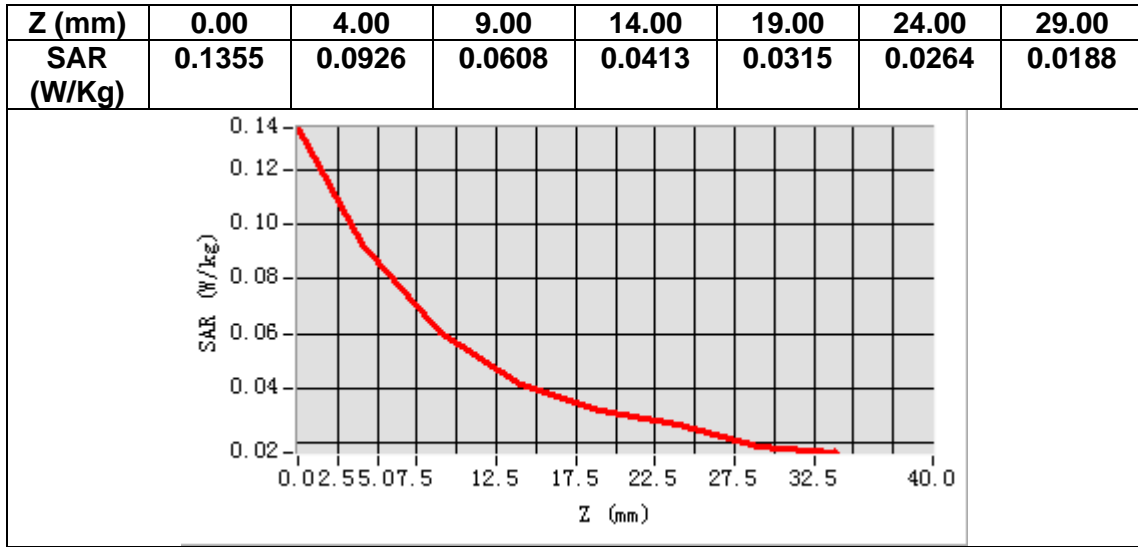
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.501461
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-2.140000



Maximum location: X=-50.00, Y=-52.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.054953
SAR 1g (W/Kg)	0.089179



MEASUREMENT 4

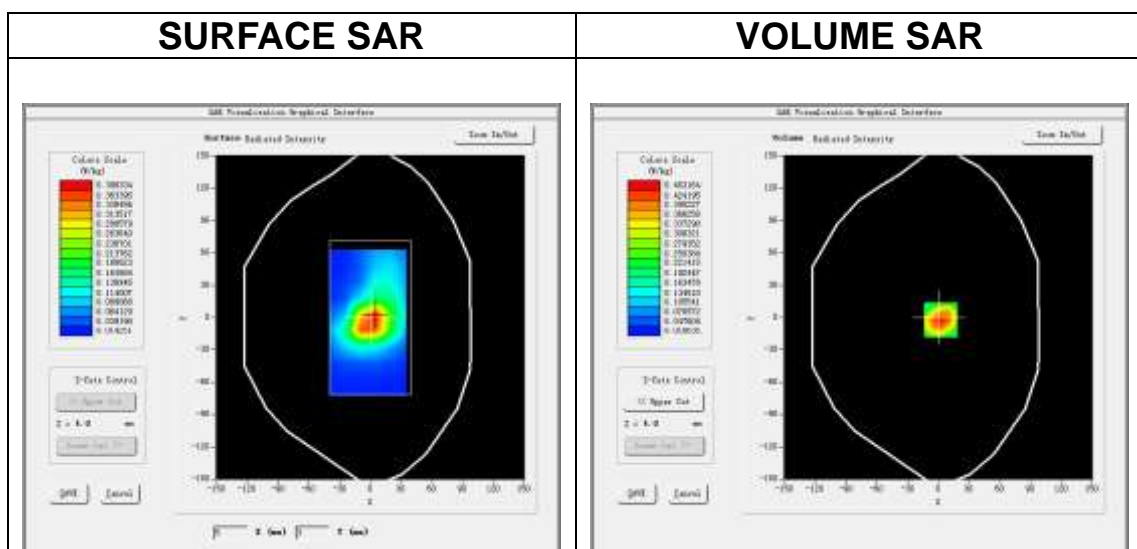
Date of measurement: 22/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

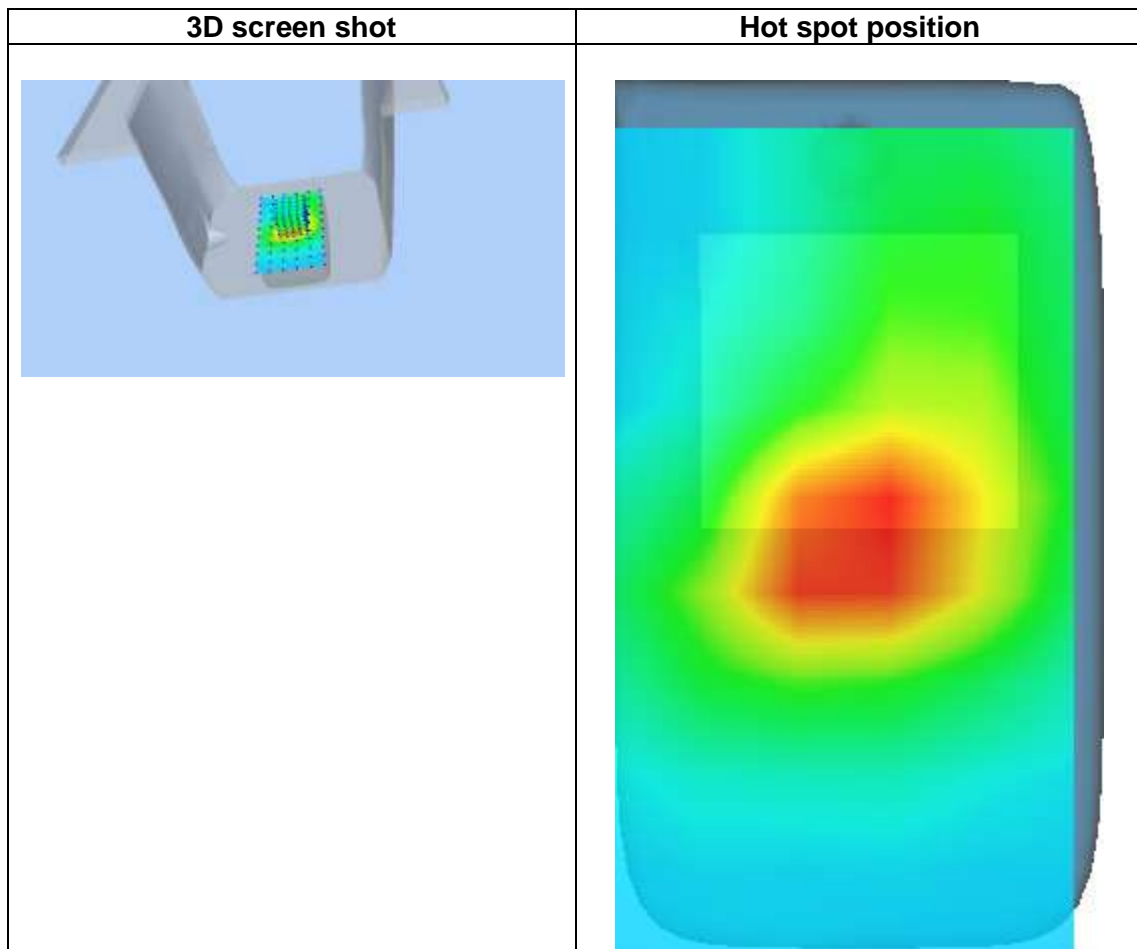
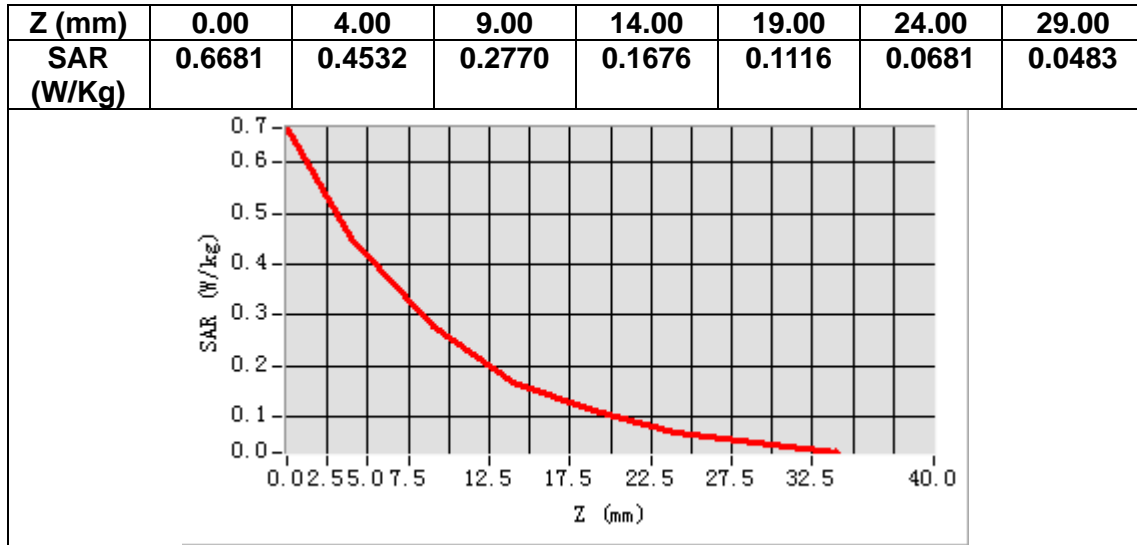
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.501461
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-4.320000



Maximum location: X=2.00, Y=-2.00

SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.244326
SAR 1g (W/Kg)	0.435576



MEASUREMENT 5

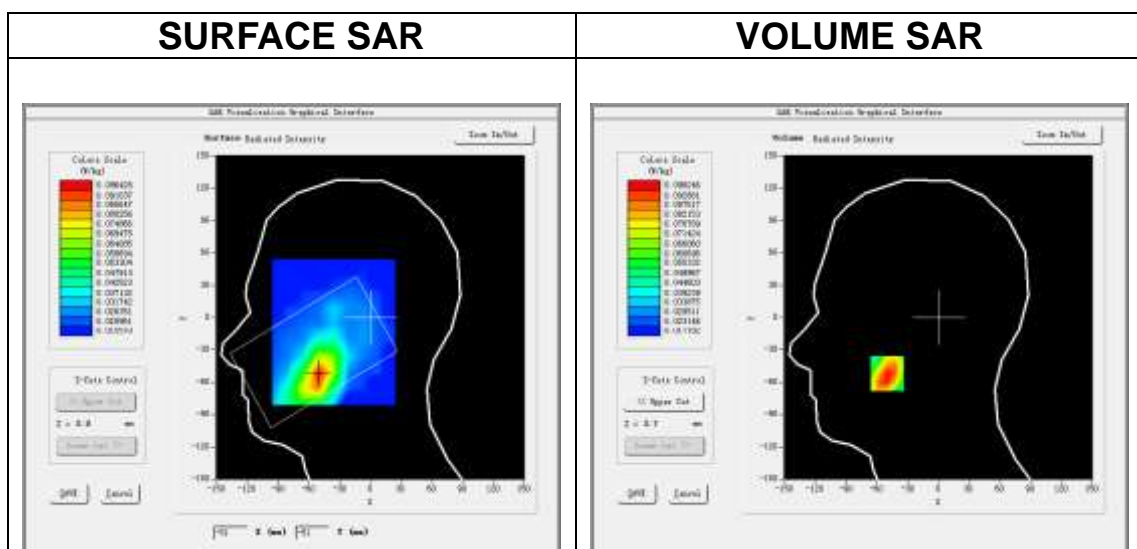
Date of measurement: 22/12/2020

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

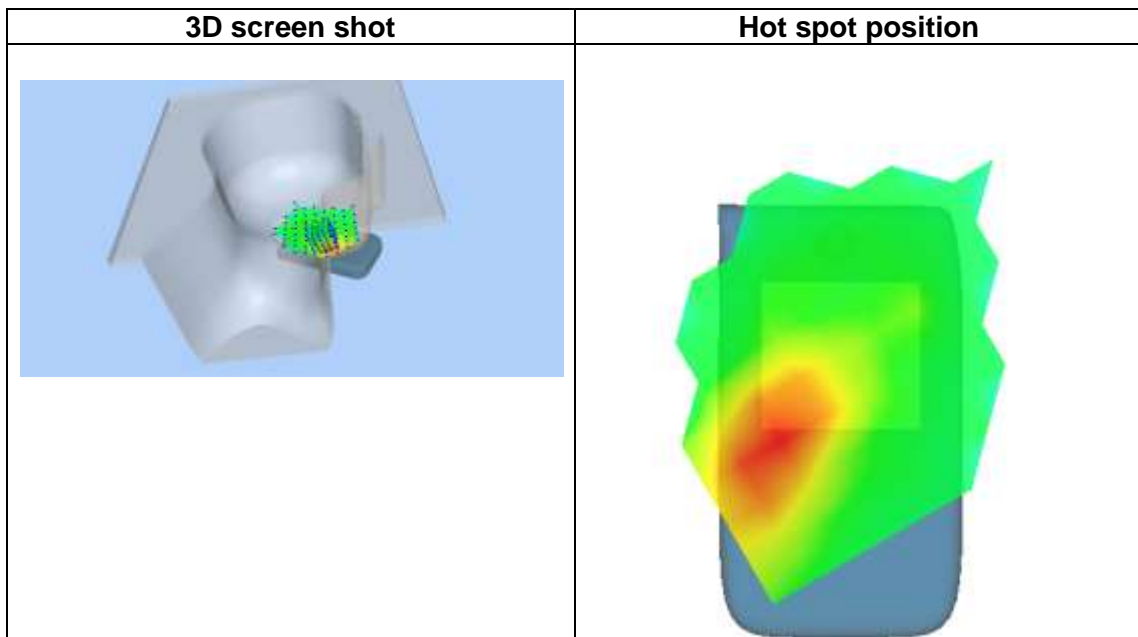
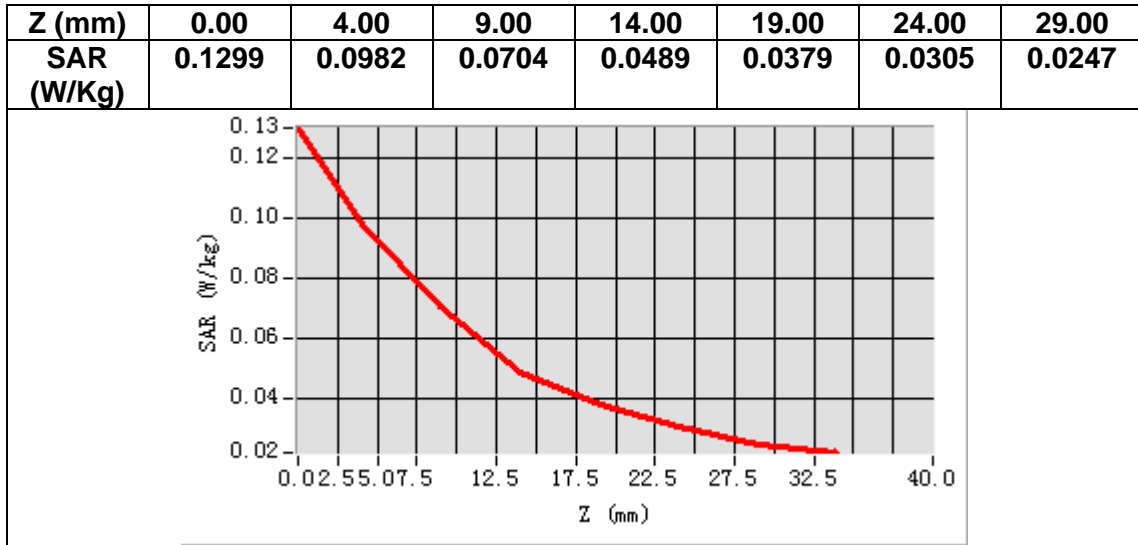
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.501461
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	3.500000



Maximum location: X=-50.00, Y=-52.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.061963
SAR 1g (W/Kg)	0.095181



MEASUREMENT 6

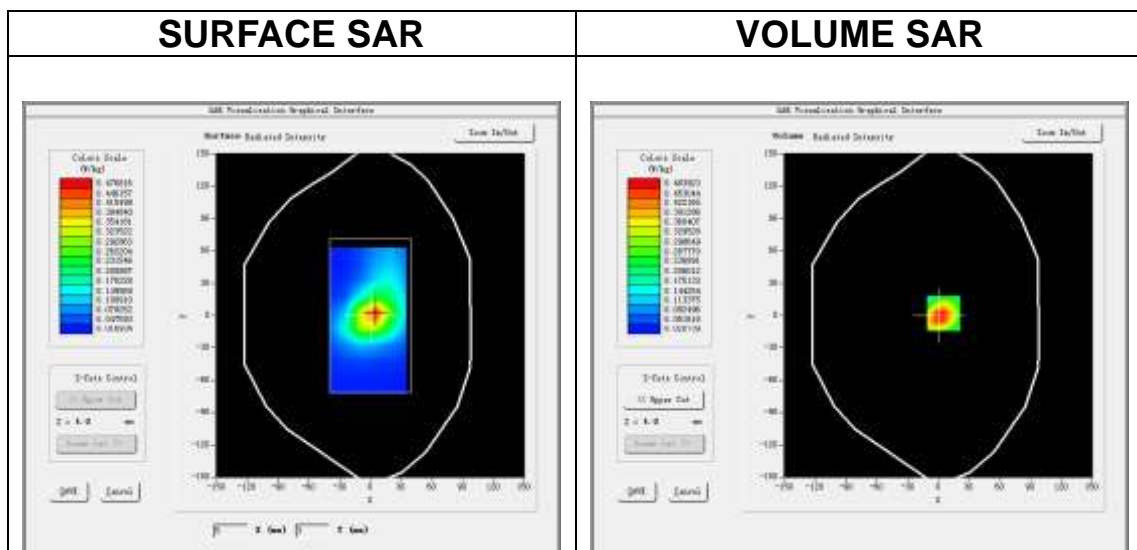
Date of measurement: 22/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

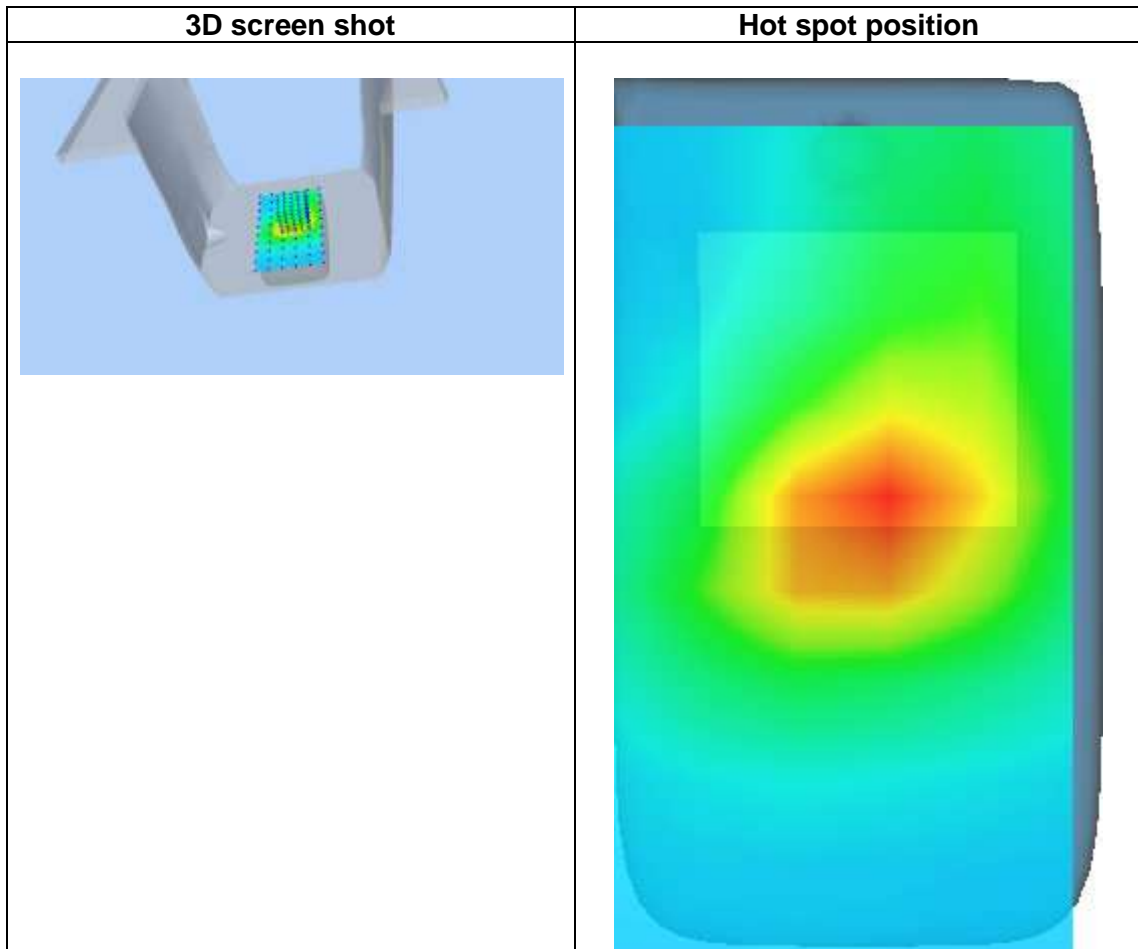
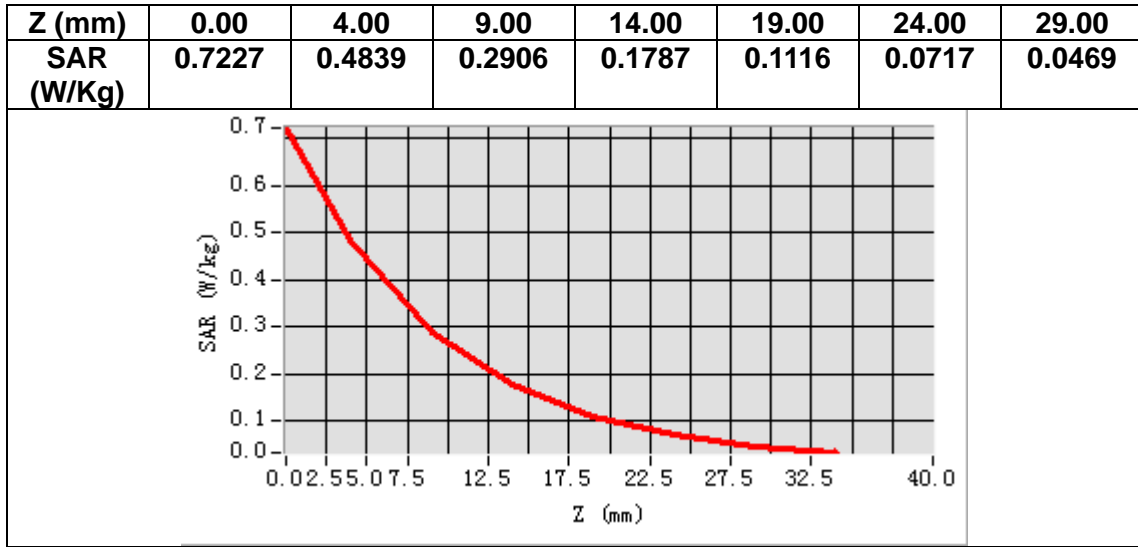
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.501461
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	0.090000



Maximum location: X=5.00, Y=2.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.260136
SAR 1g (W/Kg)	0.471136



MEASUREMENT 7

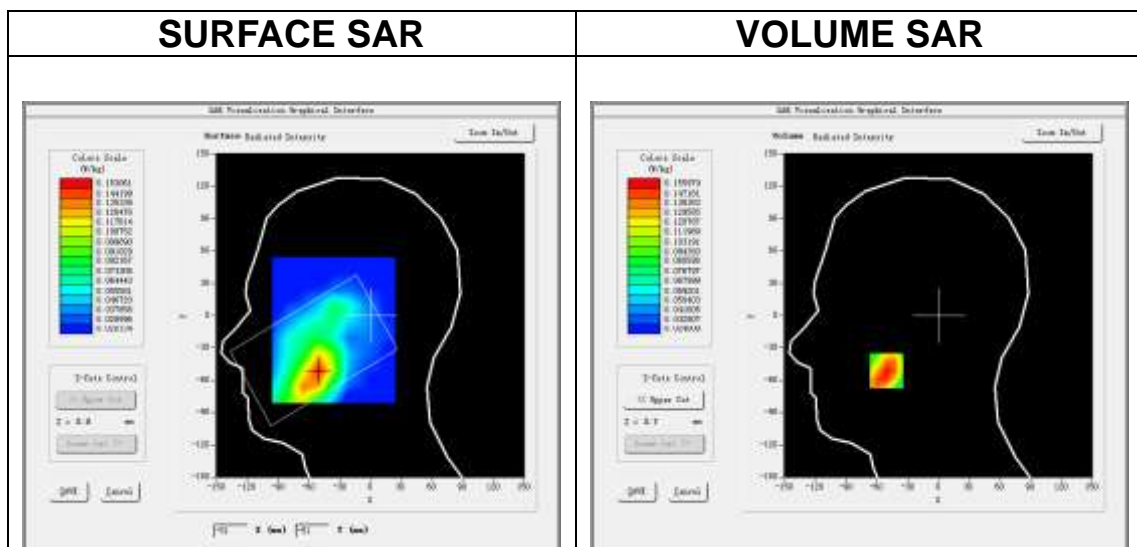
Date of measurement: 14/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

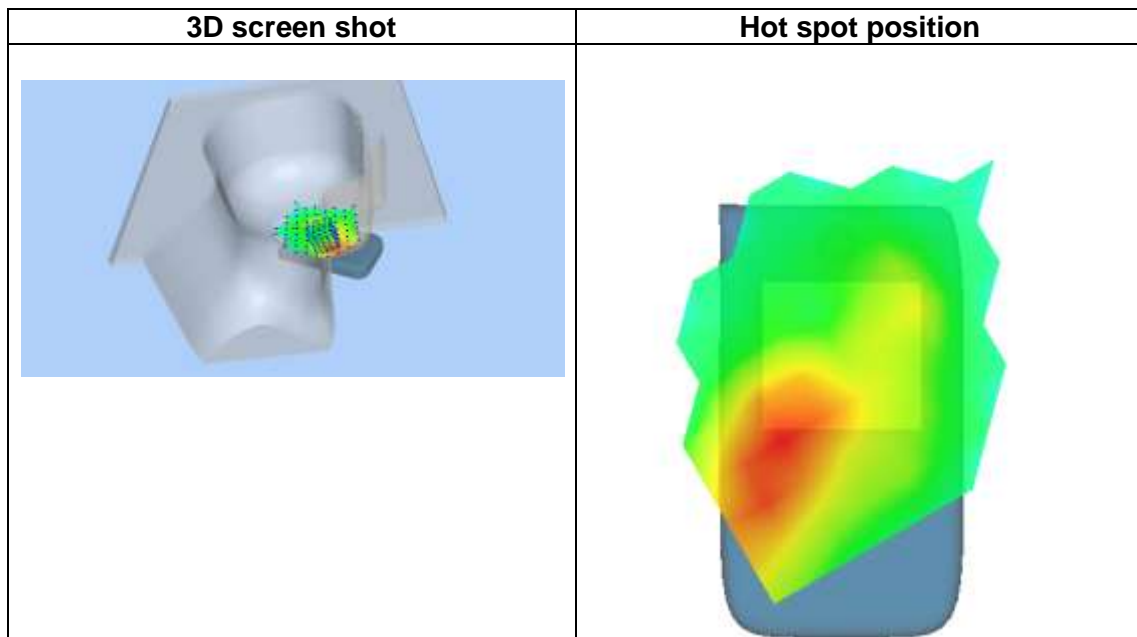
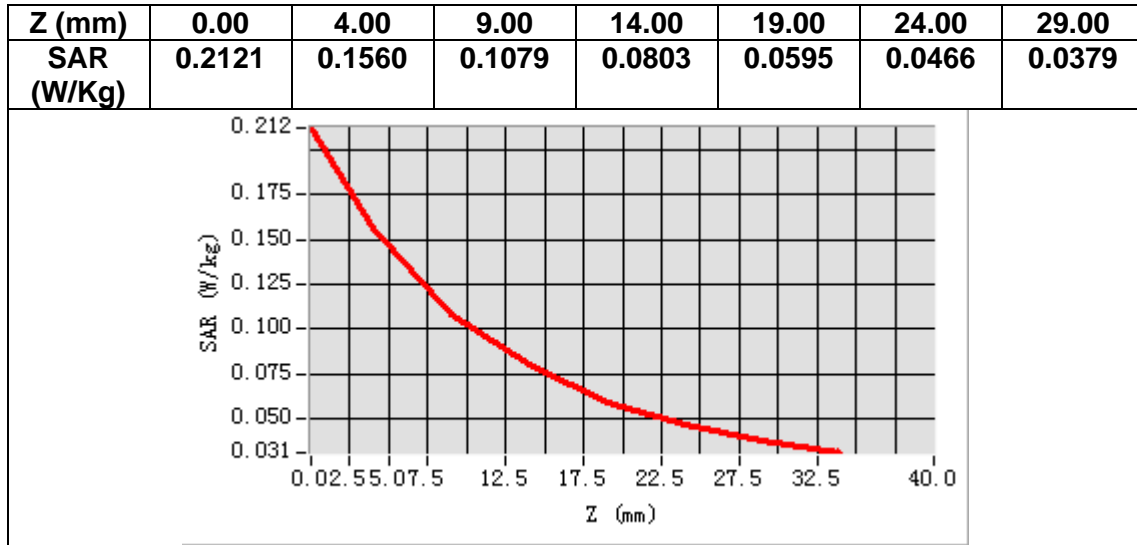
Frequency (MHz)	1740.000000
Relative permittivity (real part)	39.792583
Relative permittivity (imaginary part)	14.022578
Conductivity (S/m)	1.355516
Variation (%)	-3.470000



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

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.098906
SAR 1g (W/Kg)	0.150381



MEASUREMENT 8

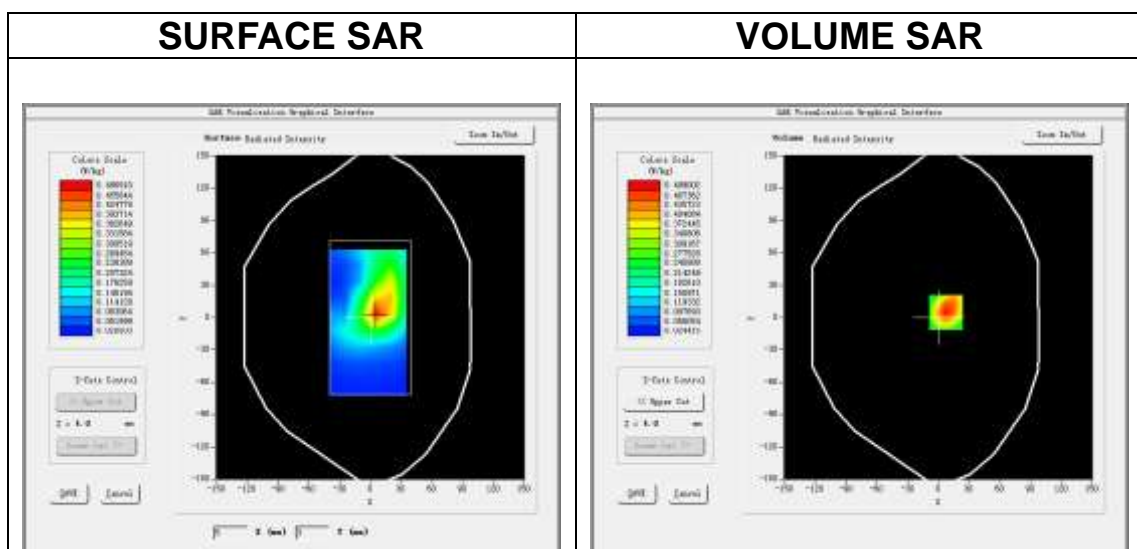
Date of measurement: 14/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

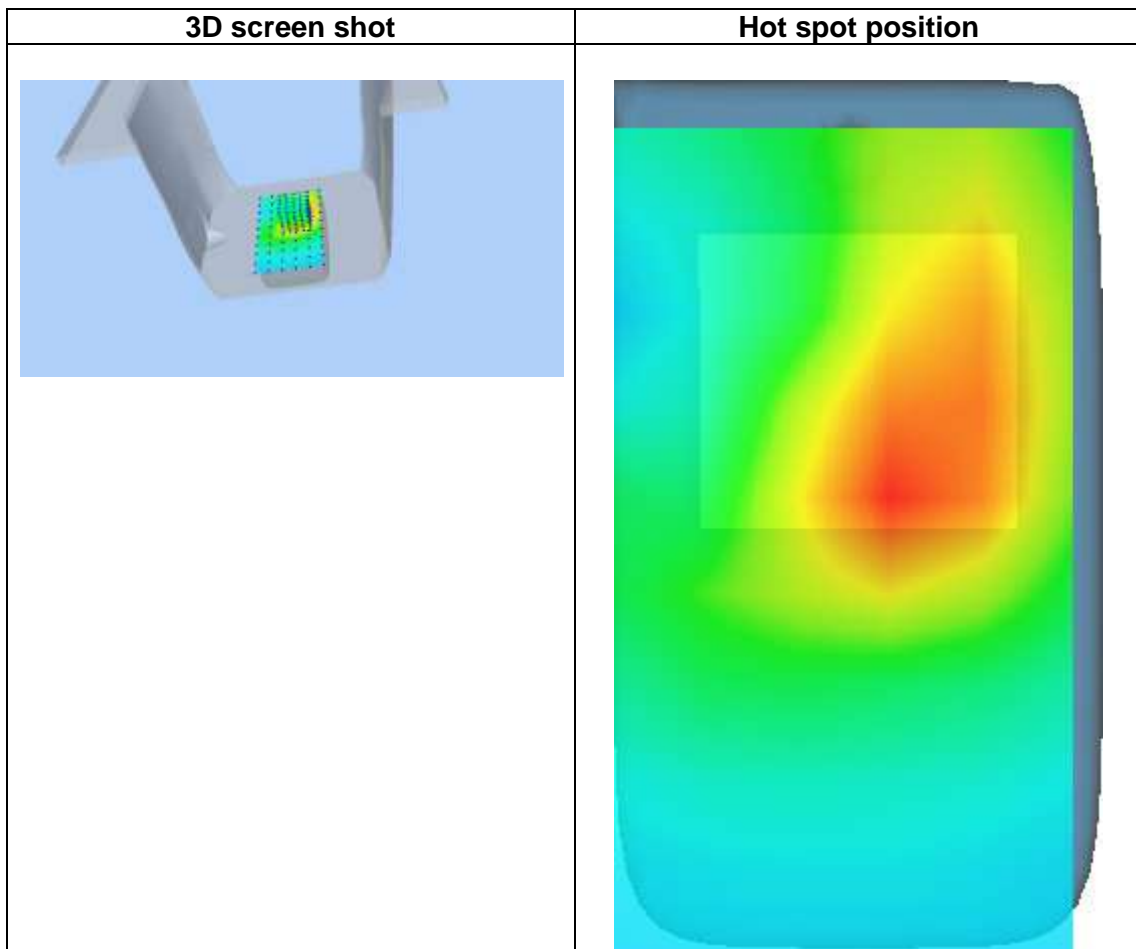
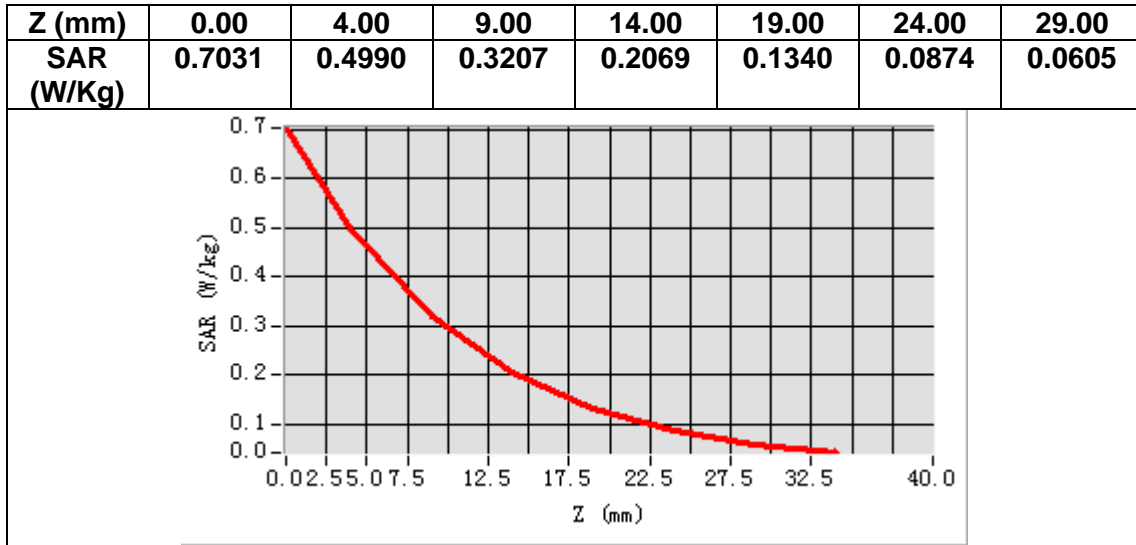
Frequency (MHz)	1740.000000
Relative permittivity (real part)	39.792583
Relative permittivity (imaginary part)	14.022578
Conductivity (S/m)	1.355516
Variation (%)	-1.260000



Maximum location: X=7.00, Y=5.00

SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.283966
SAR 1g (W/Kg)	0.472698



MEASUREMENT 9

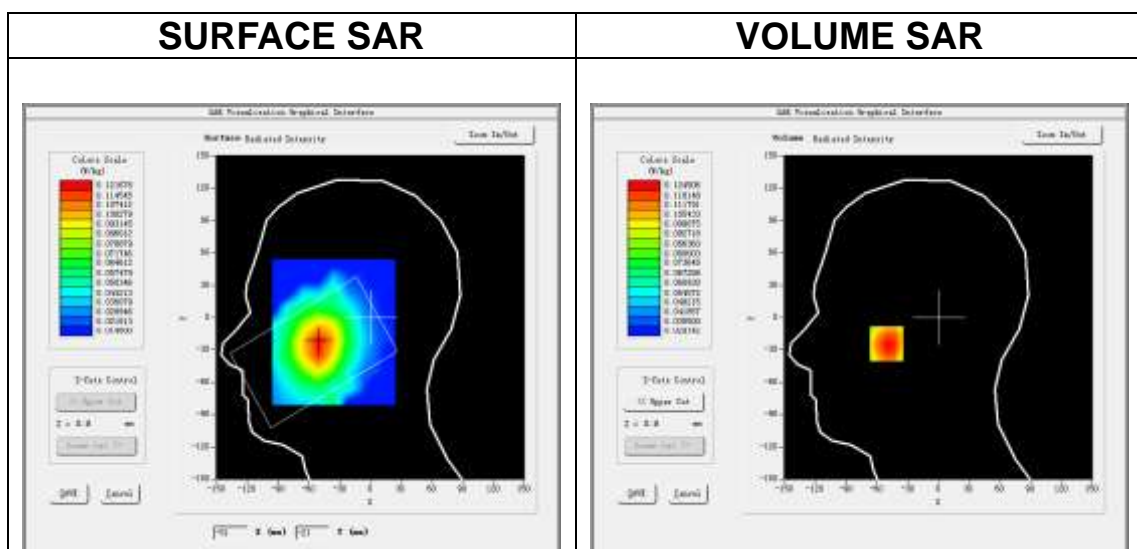
Date of measurement: 21/12/2020

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

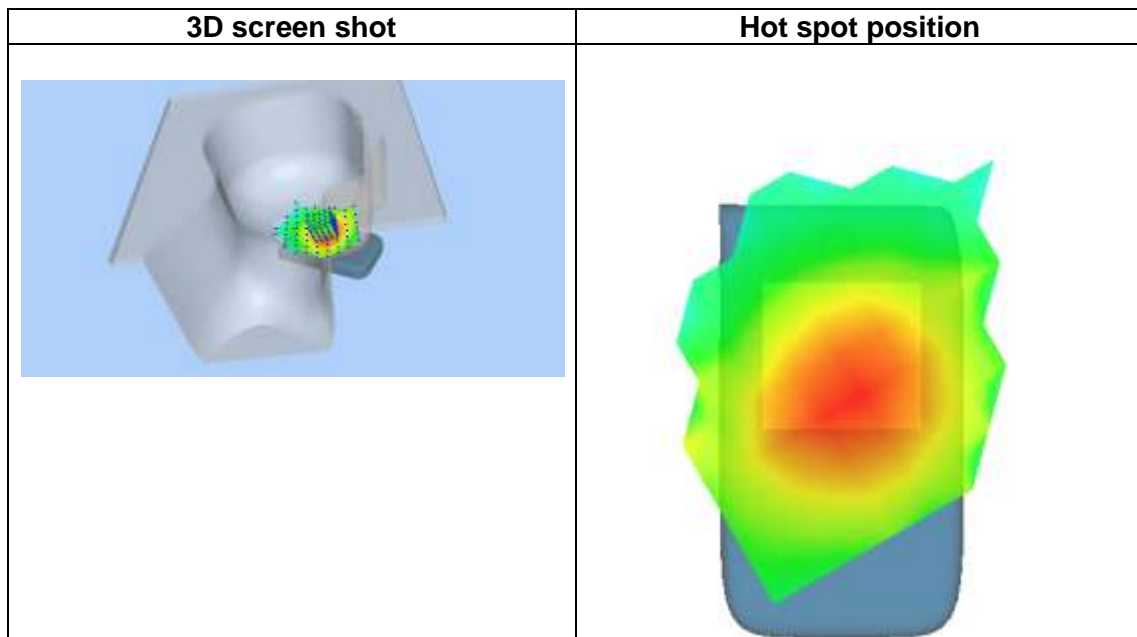
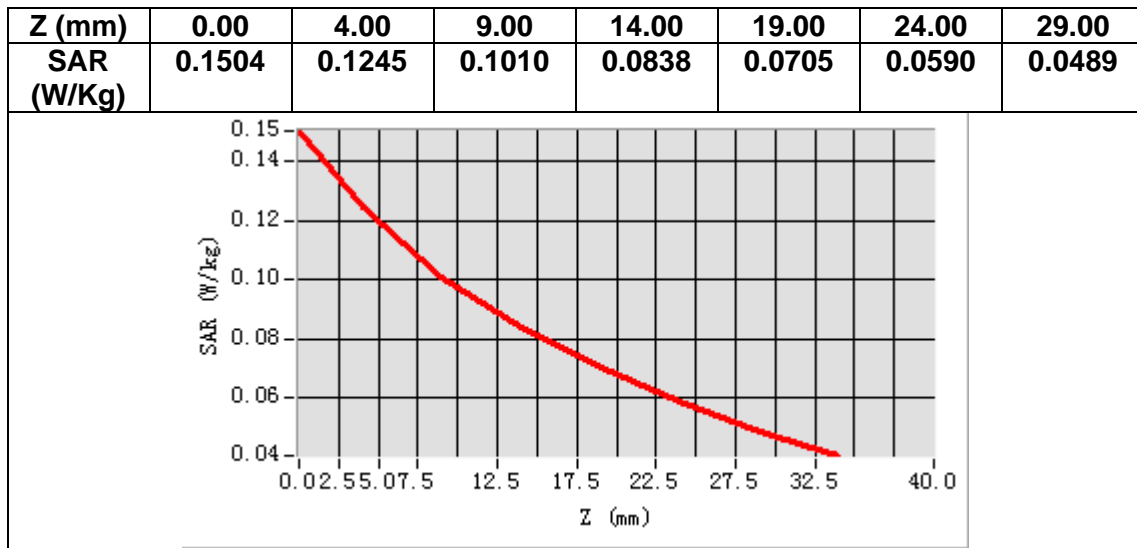
Frequency (MHz)	836.400000
Relative permittivity (real part)	41.509884
Relative permittivity (imaginary part)	19.637012
Conductivity (S/m)	0.912466
Variation (%)	2.080000



Maximum location: X=-51.00, Y=-24.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.093977
SAR 1g (W/Kg)	0.123364



MEASUREMENT 10

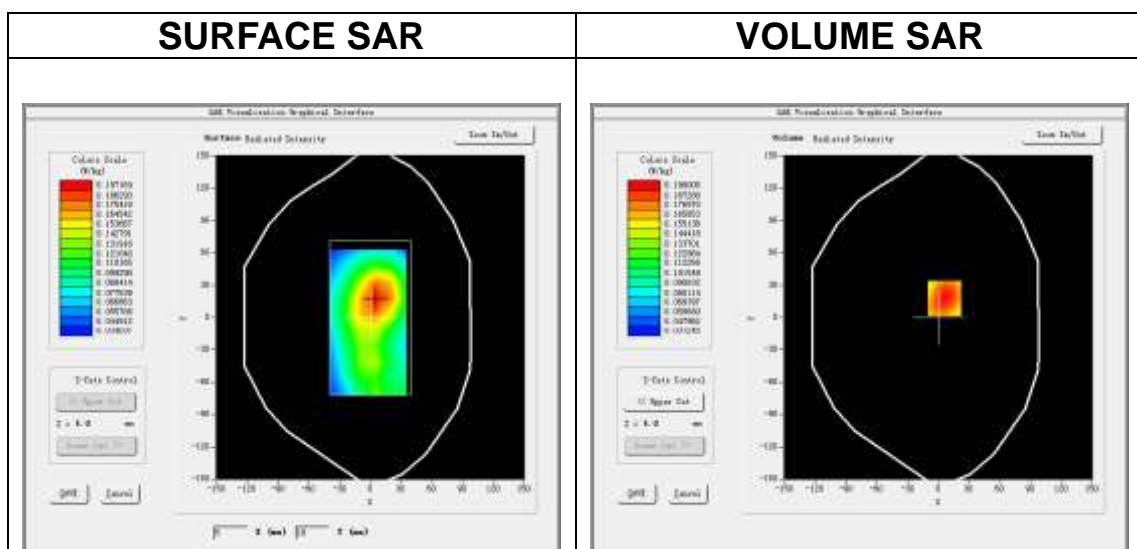
Date of measurement: 21/12/2020

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

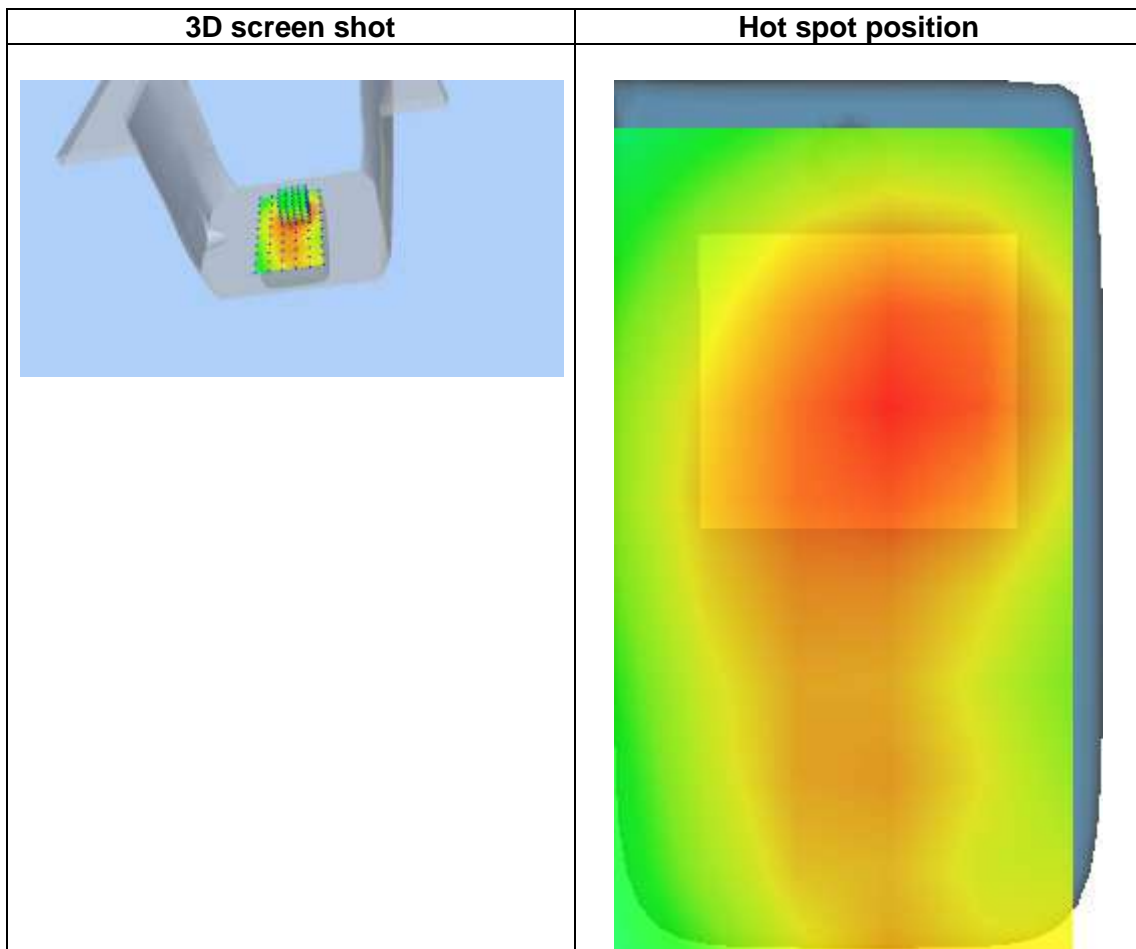
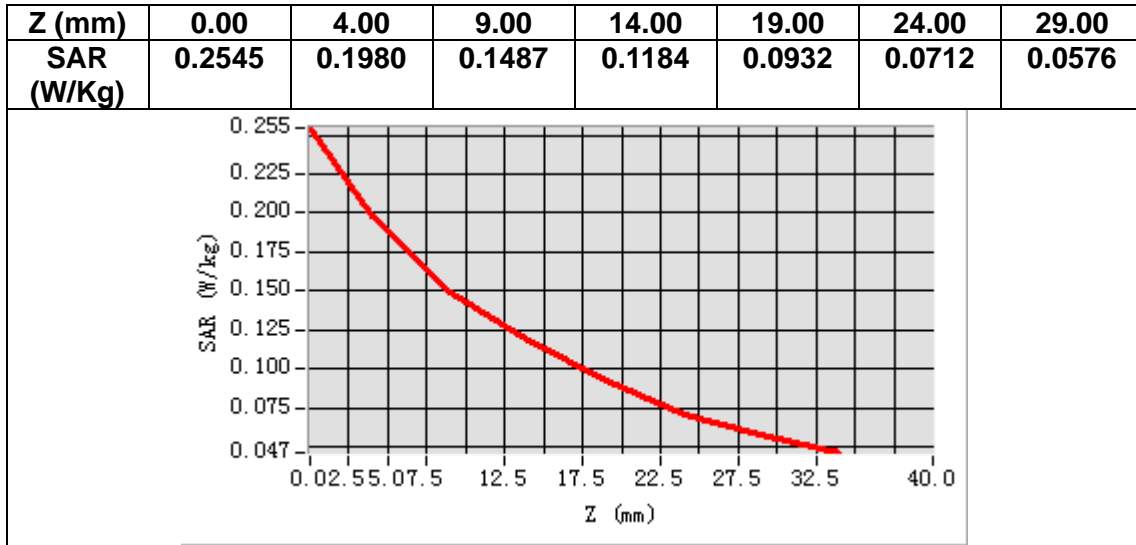
Frequency (MHz)	836.400000
Relative permittivity (real part)	41.509884
Relative permittivity (imaginary part)	19.637012
Conductivity (S/m)	0.912466
Variation (%)	-0.160000



Maximum location: X=6.00, Y=18.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.140420
SAR 1g (W/Kg)	0.194168



MEASUREMENT 11

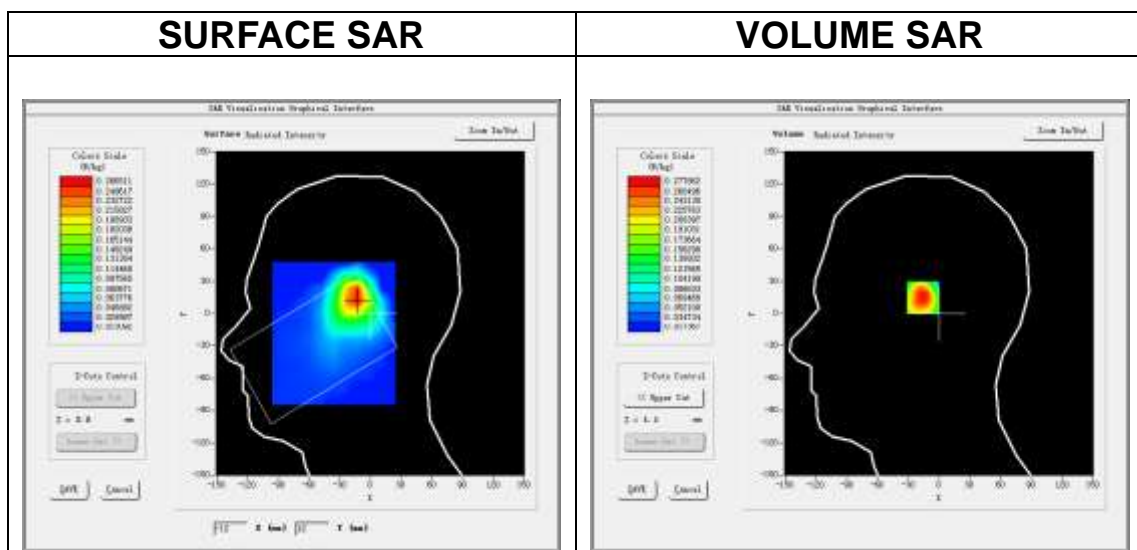
Date of measurement: 15/12/2020

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 802.11n ISM</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>

B. SAR Measurement Results

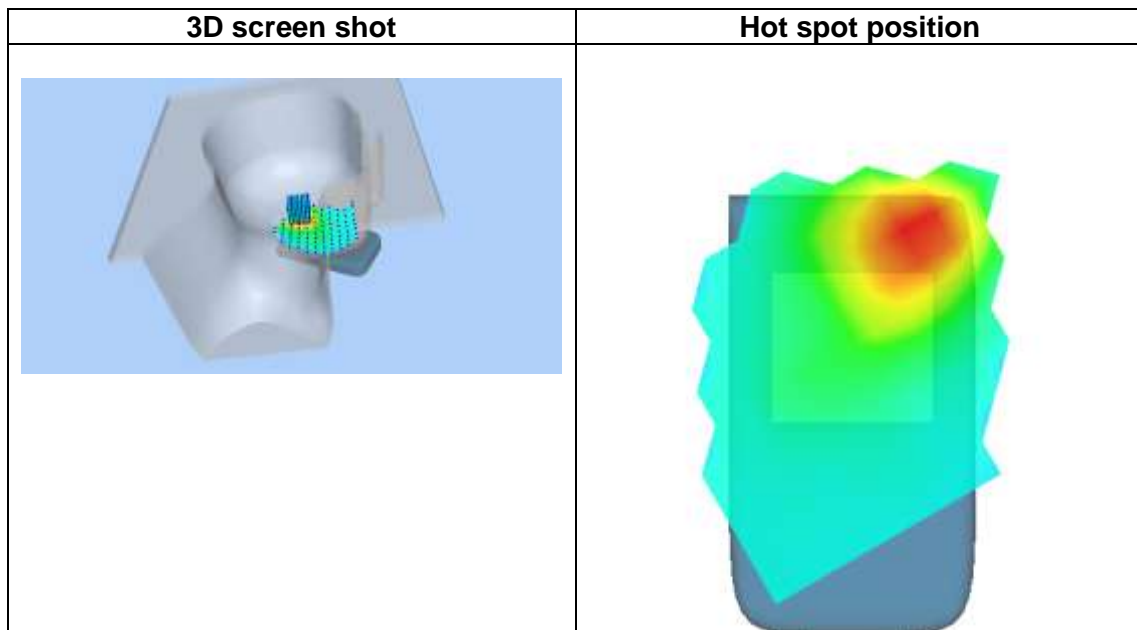
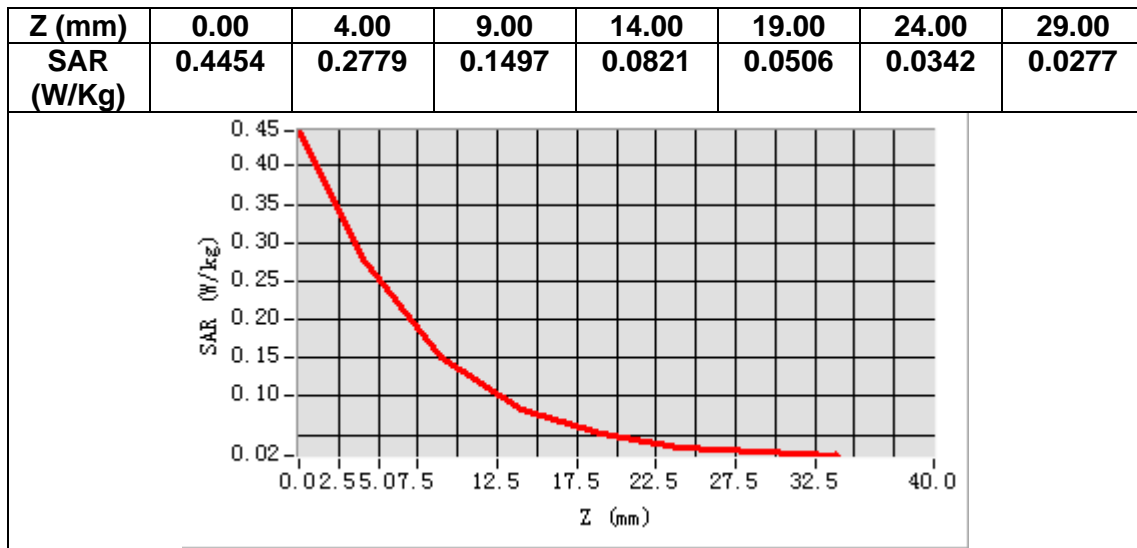
Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.225986
Relative permittivity (imaginary part)	13.513757
Conductivity (S/m)	1.829613
Variation (%)	-1.200000



Maximum location: X=-14.00, Y=16.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.143895
SAR 1g (W/Kg)	0.267421



MEASUREMENT 12

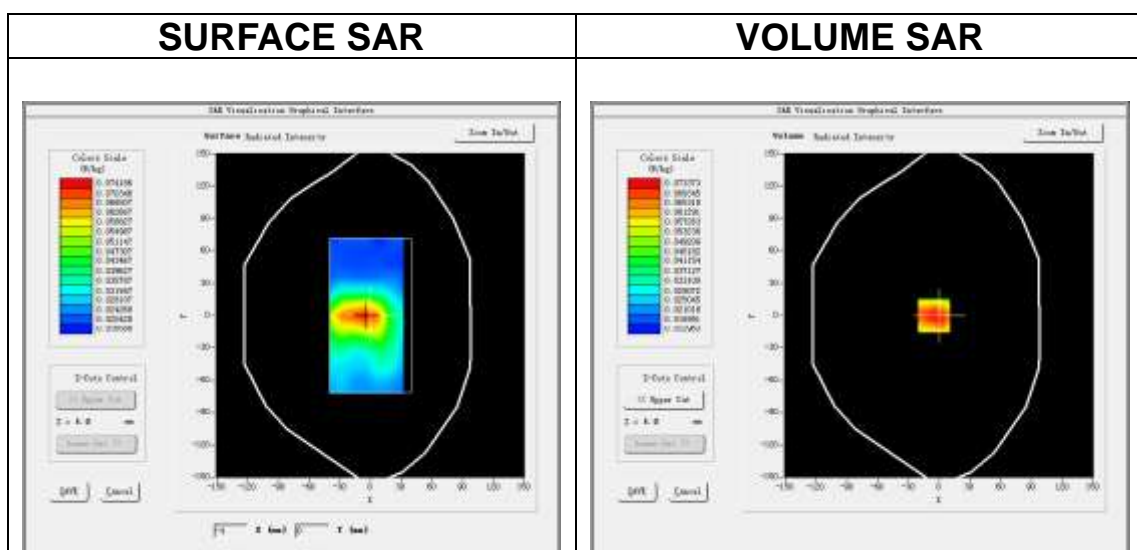
Date of measurement: 15/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

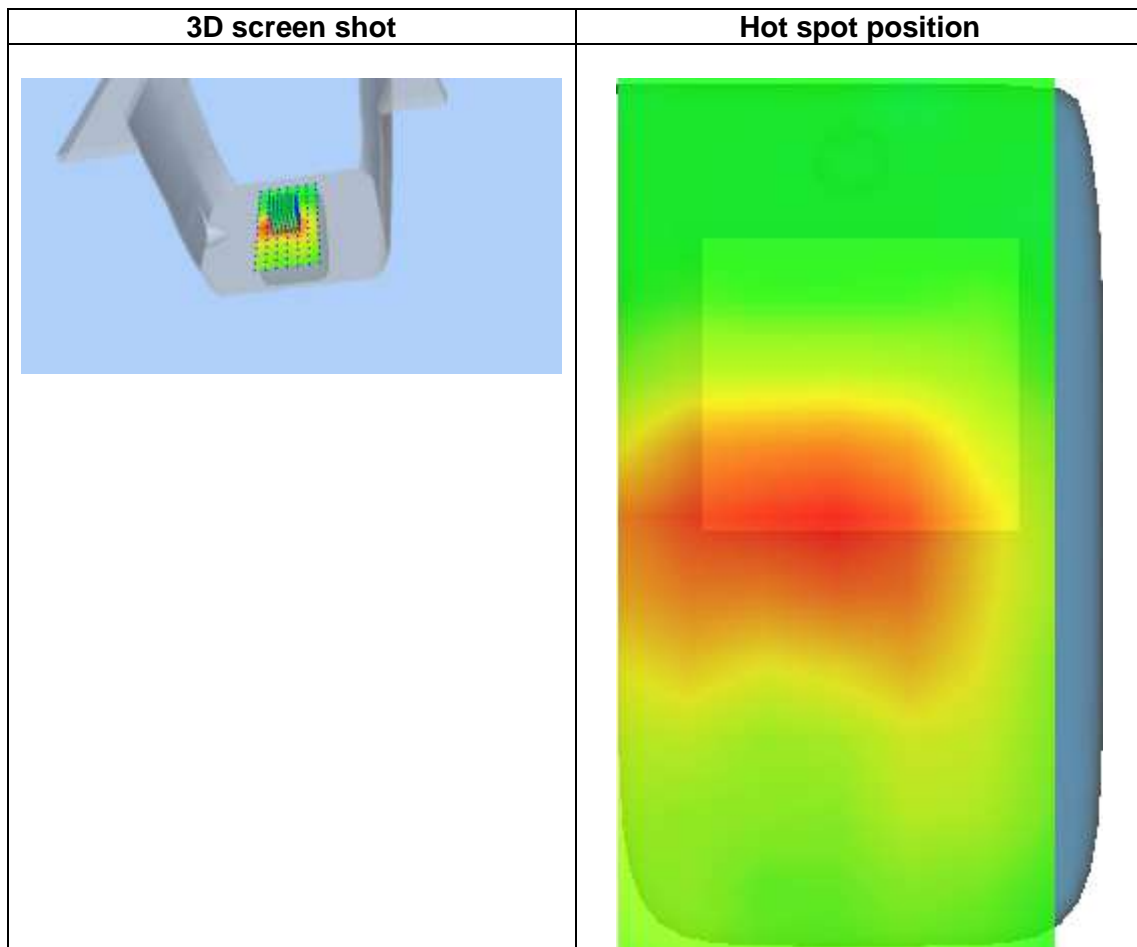
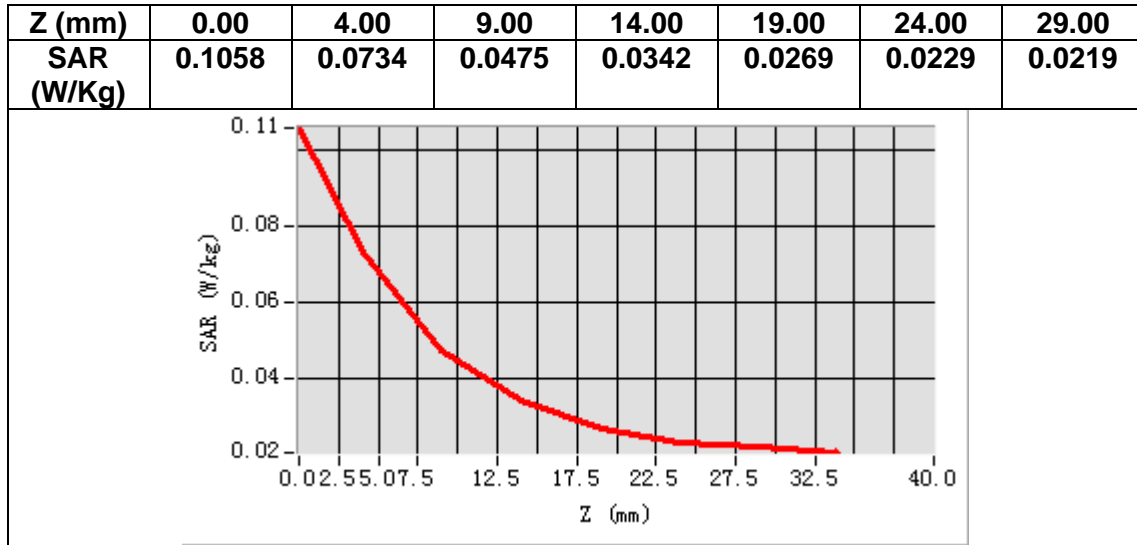
Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.225986
Relative permittivity (imaginary part)	13.513757
Conductivity (S/m)	1.829613
Variation (%)	0.870000



Maximum location: X=-5.00, Y=0.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.047215
SAR 1g (W/Kg)	0.070186



MEASUREMENT 13

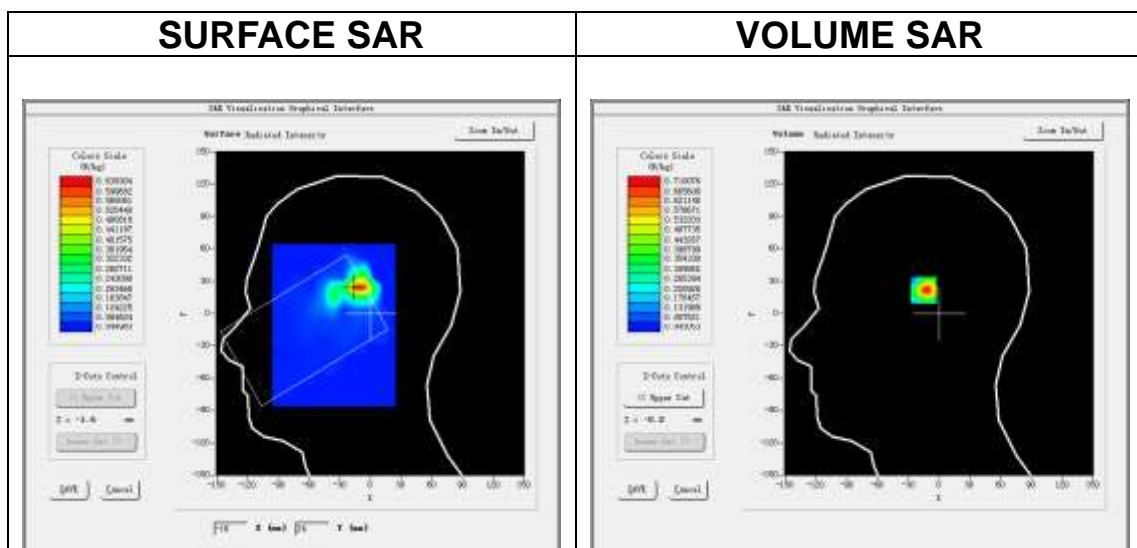
Date of measurement: 16/12/2020

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 802.11n U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.611137
Relative permittivity (imaginary part)	16.089355
Conductivity (S/m)	4.648036
Variation (%)	-4.230000

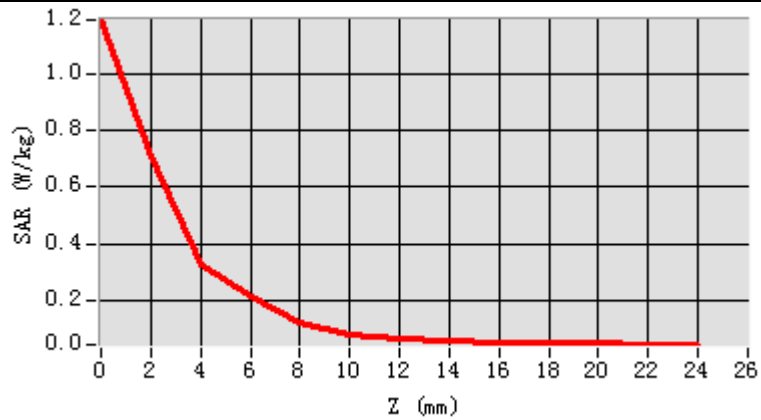


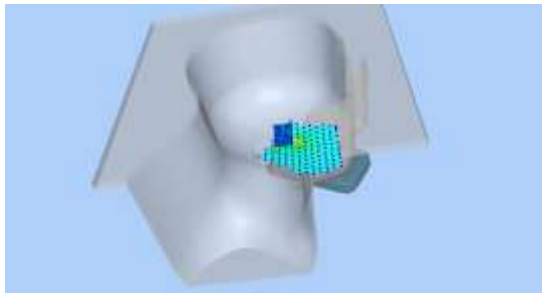
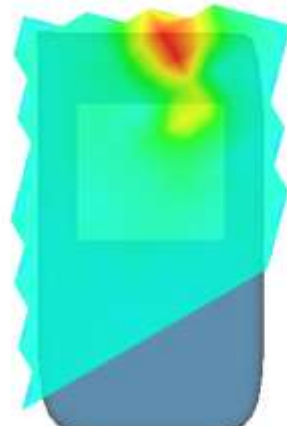
Maximum location: X=-13.00, Y=25.00

SAR Peak: 1.85 W/kg

SAR 10g (W/Kg)	0.261709
SAR 1g (W/Kg)	0.692276

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)	1.1875	0.7101	0.3283	0.2144	0.1233	0.0853	0.0692	0.0606	0.0512	0.0532	0.0511	0.0489



3D screen shot	Hot spot position
	

MEASUREMENT 14

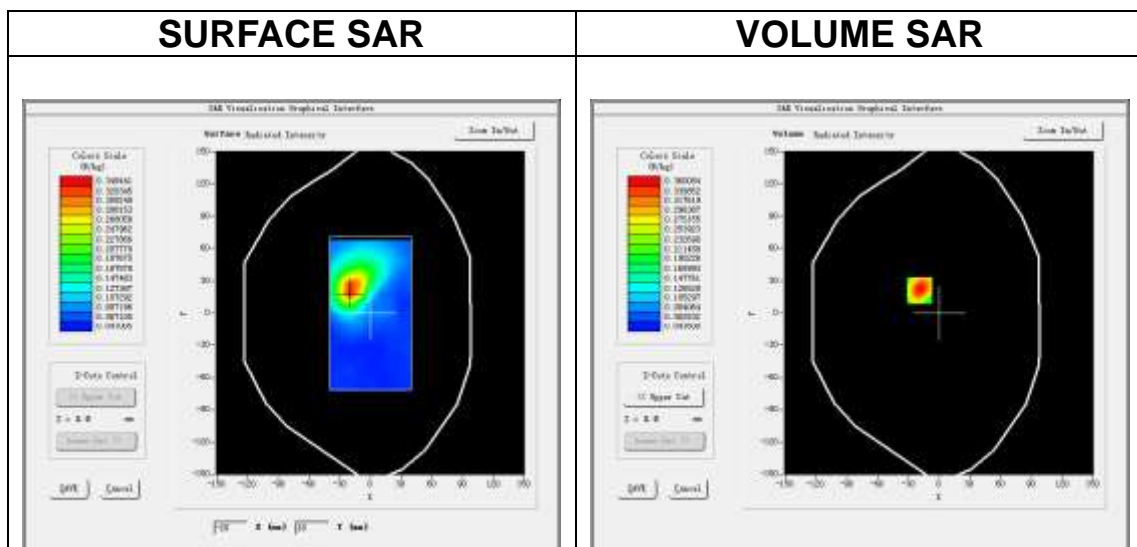
Date of measurement: 16/12/2020

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 802.11n U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.611137
Relative permittivity (imaginary part)	16.089355
Conductivity (S/m)	4.648036
Variation (%)	-0.350000

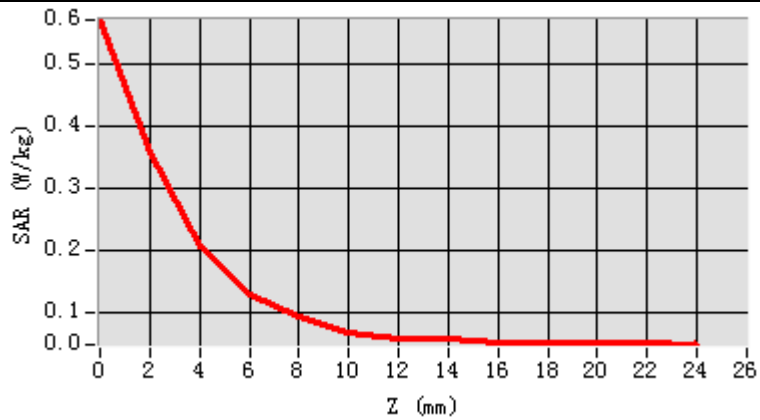


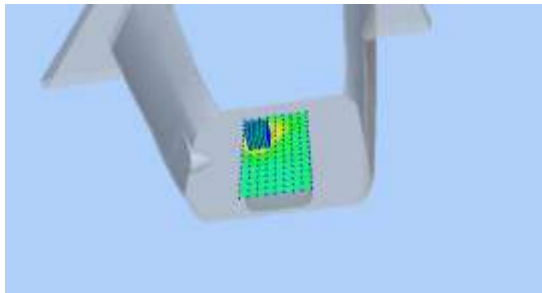
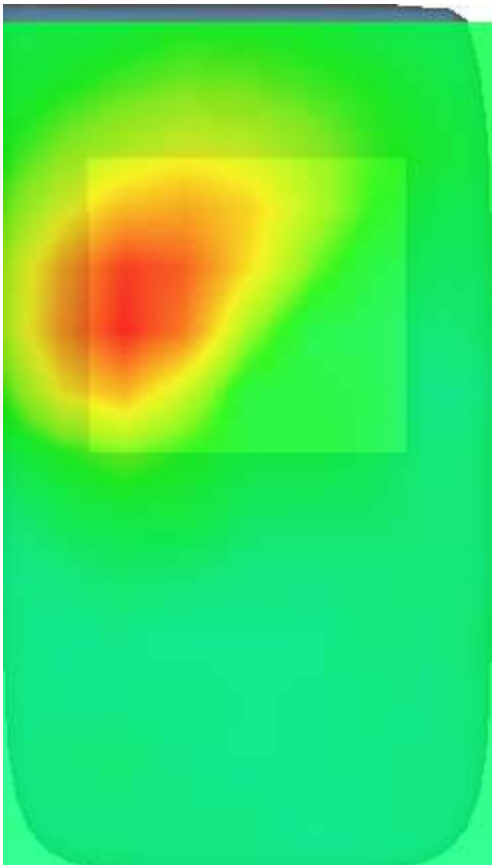
Maximum location: X=-19.00, Y=21.00

SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.124934
SAR 1g (W/Kg)	0.234043

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)	0.5726	0.3601	0.2082	0.1298	0.0933	0.0685	0.0587	0.0606	0.0523	0.0535	0.0525	0.0521



3D screen shot	Hot spot position
	

MEASUREMENT 15

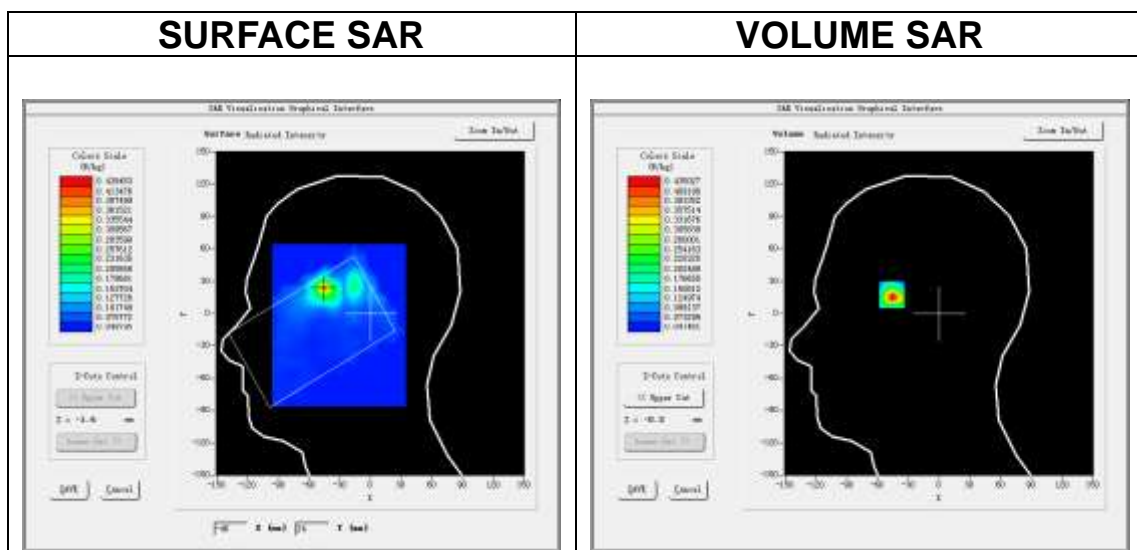
Date of measurement: 17/12/2020

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 802.11n U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5310.000000
Relative permittivity (real part)	36.202893
Relative permittivity (imaginary part)	16.399921
Conductivity (S/m)	4.837977
Variation (%)	-3.830000

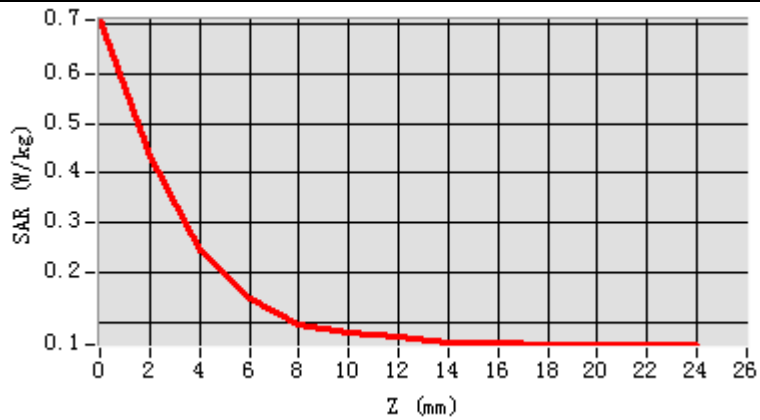


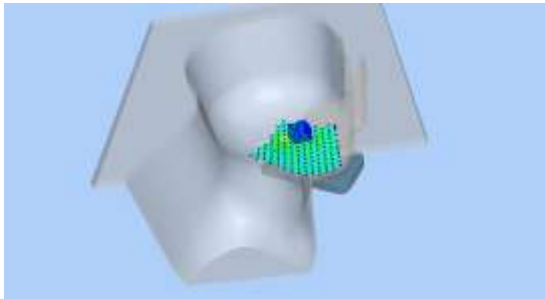
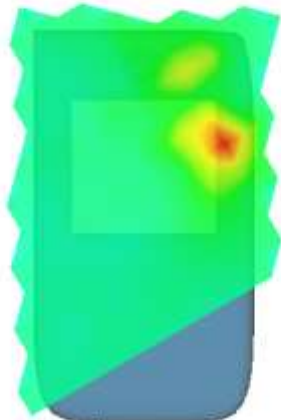
Maximum location: X=-46.00, Y=24.00

SAR Peak: 1.18 W/kg

SAR 10g (W/Kg)	0.164852
SAR 1g (W/Kg)	0.428316

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)	0.7080	0.4350	0.2434	0.1492	0.0971	0.0789	0.0706	0.0612	0.0605	0.0575	0.0573	0.0556



3D screen shot	Hot spot position
	

MEASUREMENT 16

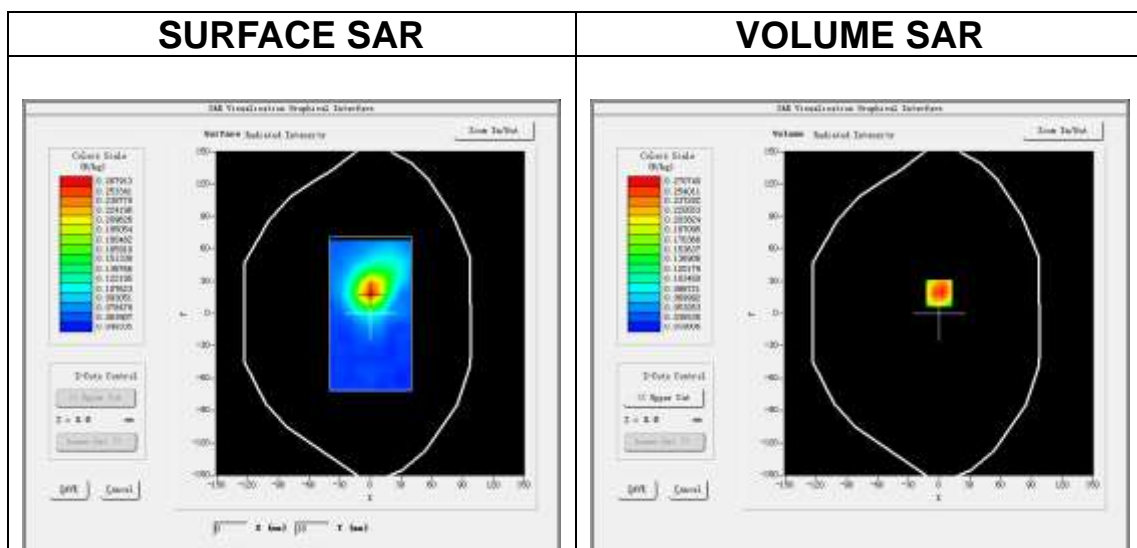
Date of measurement: 17/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5310.000000
Relative permittivity (real part)	36.202893
Relative permittivity (imaginary part)	16.399921
Conductivity (S/m)	4.837977
Variation (%)	0.030000

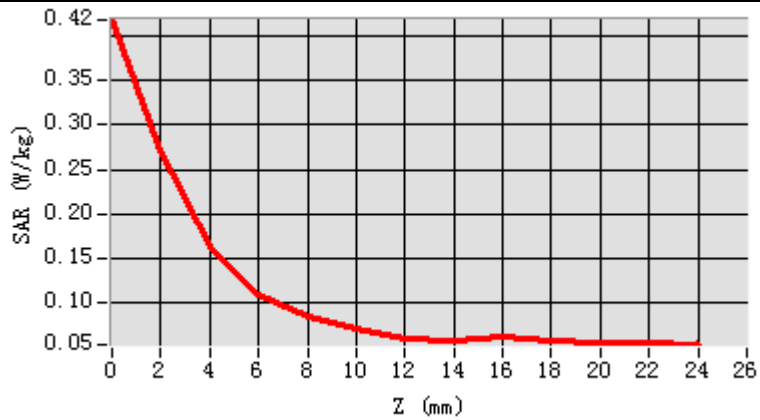


Maximum location: X=0.00, Y=19.00

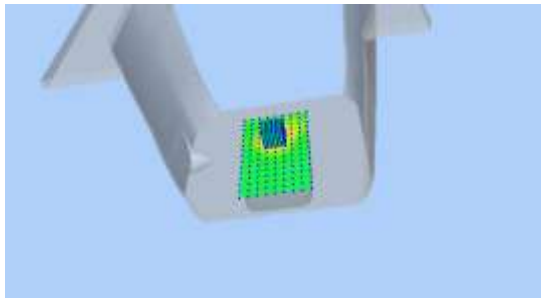
SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.106811
SAR 1g (W/Kg)	0.181434

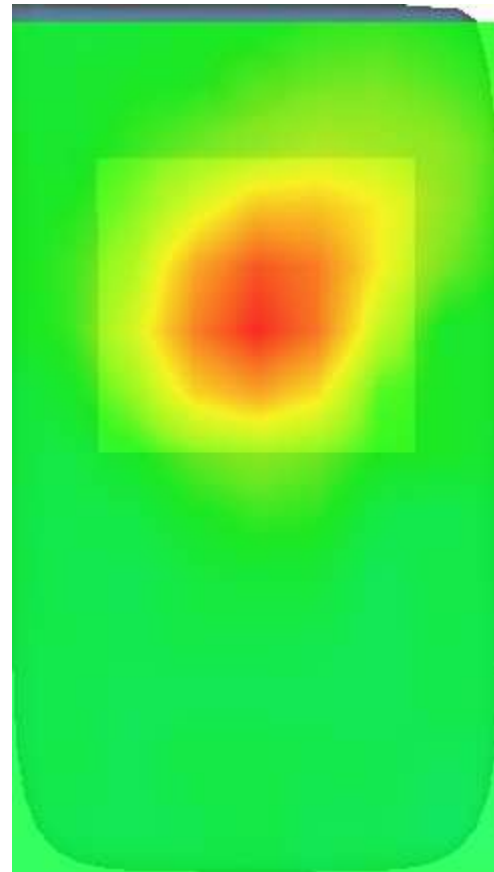
Z (m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.4169	0.2707	0.1641	0.1111	0.0855	0.0715	0.0607	0.0591	0.0623	0.0577	0.0574	0.0573



3D screen shot



Hot spot position



MEASUREMENT 17

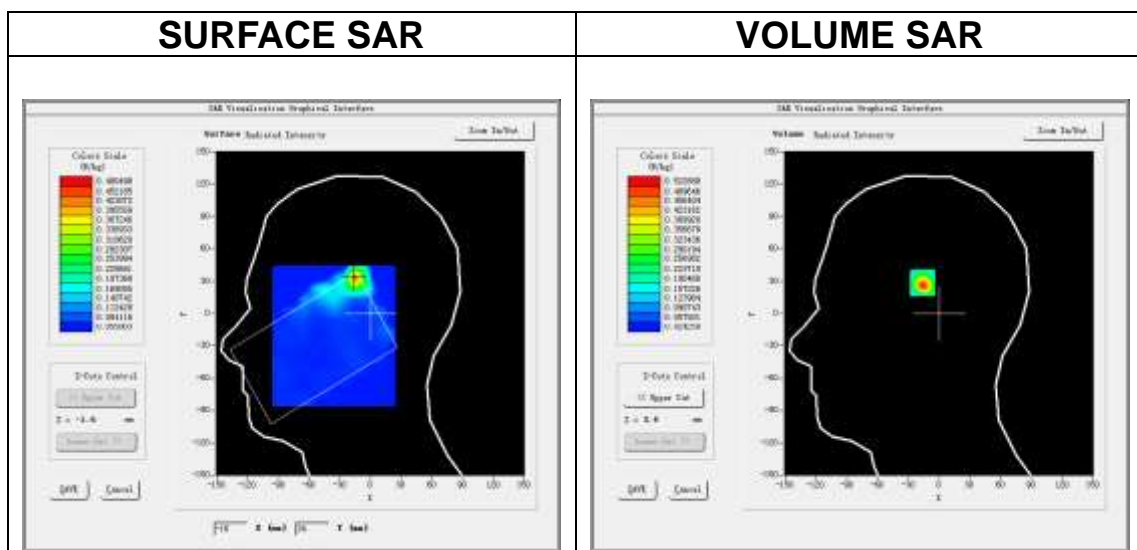
Date of measurement: 17/12/2020

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 802.11n U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11n (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.886440
Relative permittivity (imaginary part)	16.499619
Conductivity (S/m)	5.133215
Variation (%)	1.020000

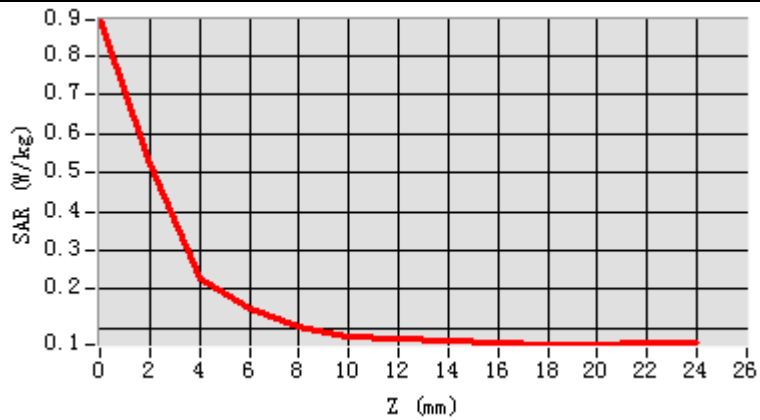


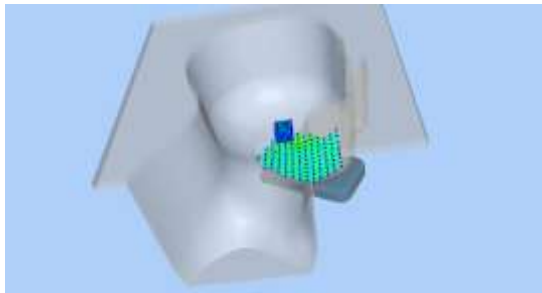
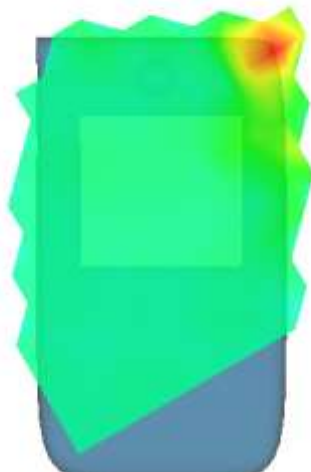
Maximum location: X=-15.00, Y=33.00

SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.191119
SAR 1g (W/Kg)	0.506658

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)	0.8915	0.5229	0.2294	0.1521	0.1020	0.0807	0.0720	0.0675	0.0624	0.0581	0.0606	0.0612



3D screen shot	Hot spot position
	

MEASUREMENT 18

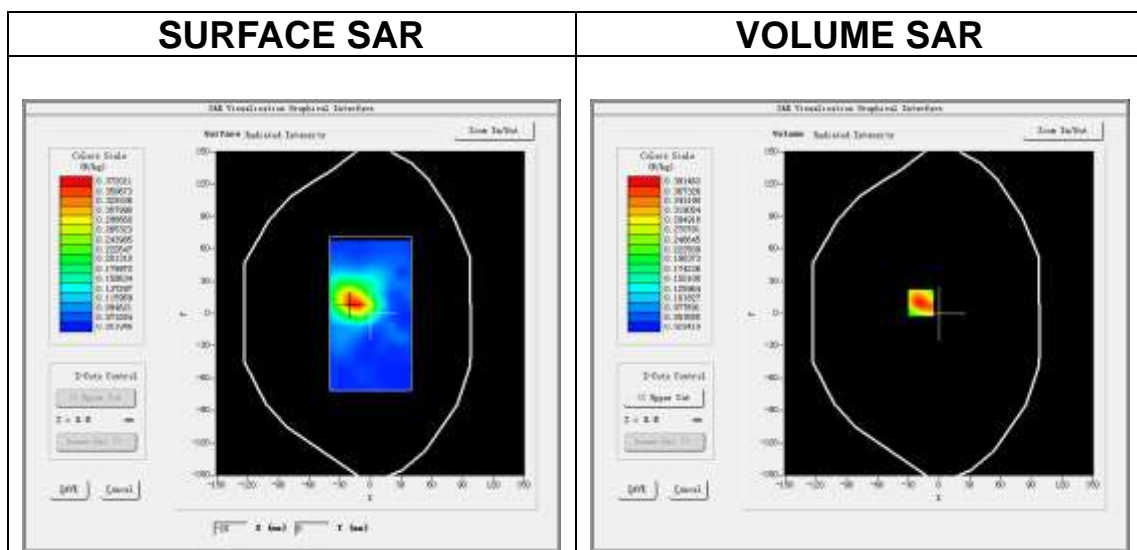
Date of measurement: 17/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.886440
Relative permittivity (imaginary part)	16.499619
Conductivity (S/m)	5.133215
Variation (%)	1.320000

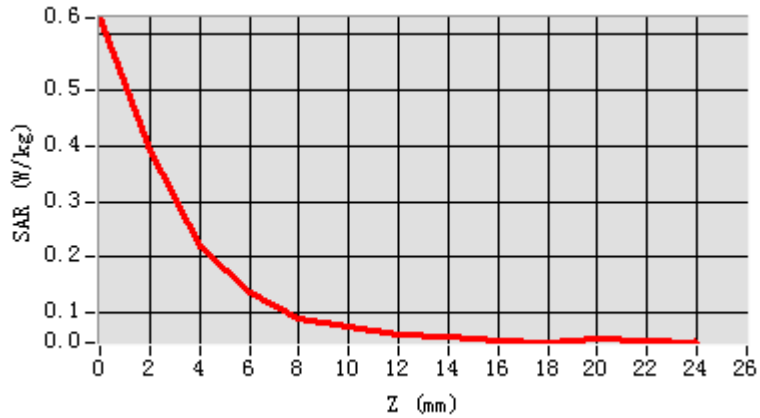


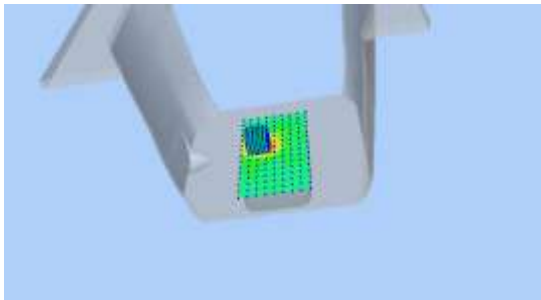
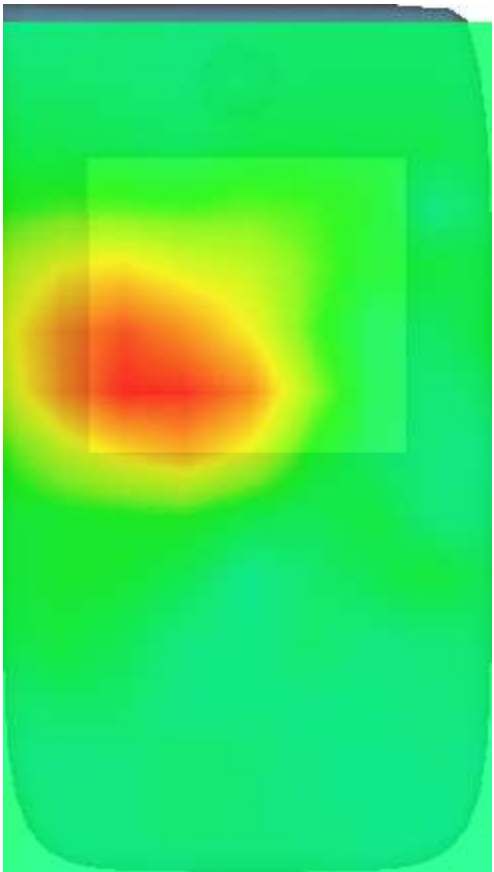
Maximum location: X=-18.00, Y=10.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.130601
SAR 1g (W/Kg)	0.248437

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)	0.6292	0.3915	0.2178	0.1373	0.0896	0.0742	0.0622	0.0560	0.0517	0.0485	0.0533	0.0506



3D screen shot	Hot spot position
	

MEASUREMENT 19

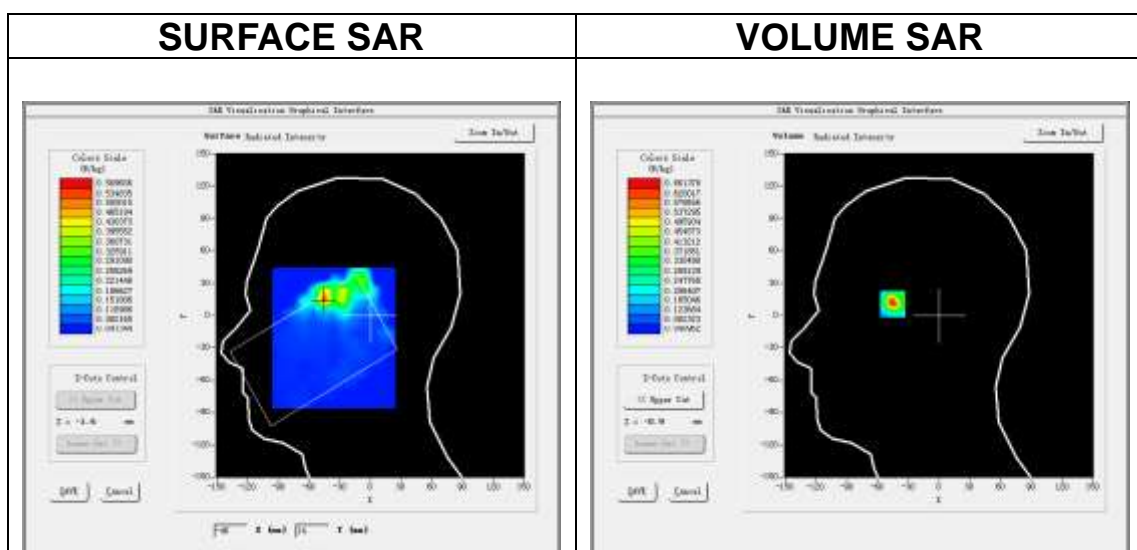
Date of measurement: 18/12/2020

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 802.11ac U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11ac (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.314999
Relative permittivity (imaginary part)	16.355499
Conductivity (S/m)	5.256476
Variation (%)	-1.040000

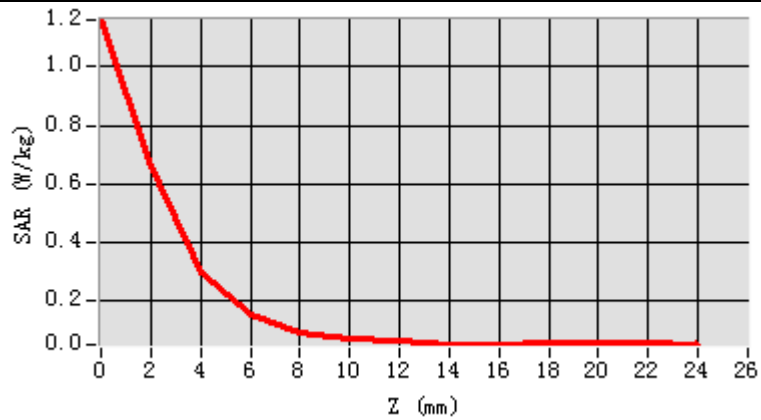


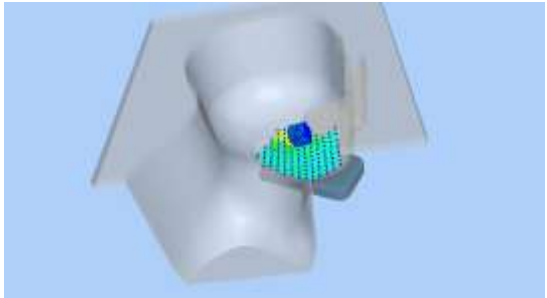
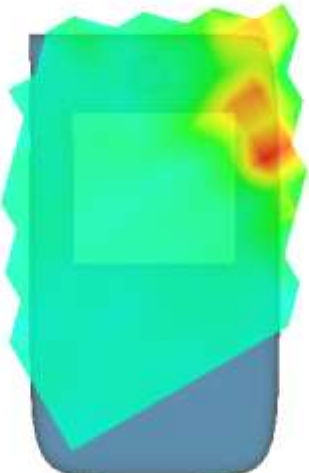
Maximum location: X=-45.00, Y=16.00

SAR Peak: 1.95 W/kg

SAR 10g (W/Kg)	0.213044
SAR 1g (W/Kg)	0.634370

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)	1.1611	0.6614	0.2930	0.1518	0.0870	0.0704	0.0601	0.0472	0.0491	0.0516	0.0504	0.0510



3D screen shot	Hot spot position
	

MEASUREMENT 20

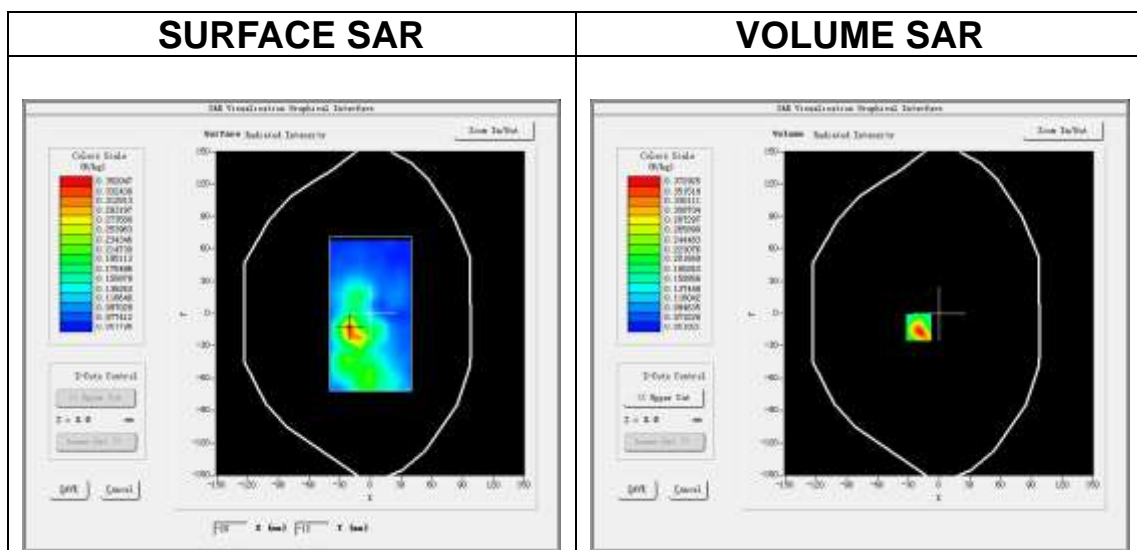
Date of measurement: 18/12/2020

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 802.11ac U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11ac (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.149773
Relative permittivity (imaginary part)	16.386665
Conductivity (S/m)	5.266492
Variation (%)	0.730000

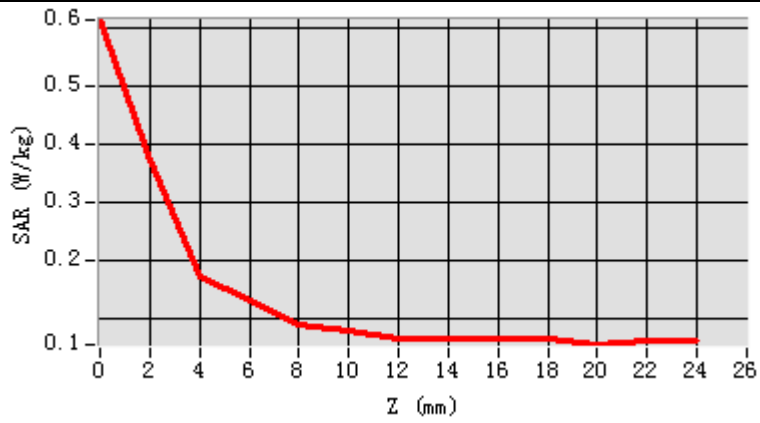


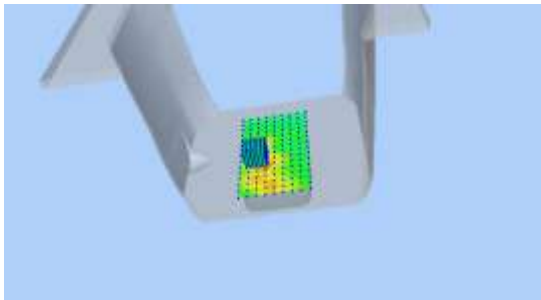
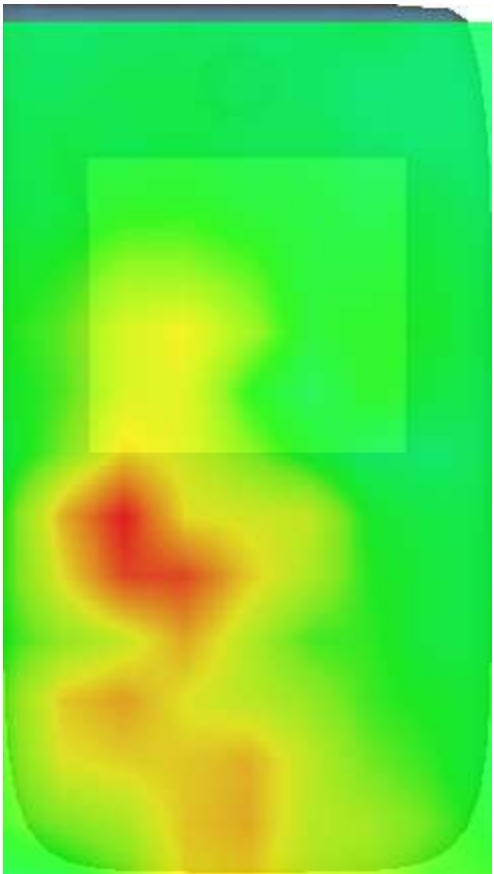
Maximum location: X=-20.00, Y=-13.00

SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.122363
SAR 1g (W/Kg)	0.234724

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	0.61 40	0.37 29	0.17 01	0.13 09	0.08 78	0.07 78	0.06 34	0.06 24	0.06 28	0.06 49	0.05 34	0.06 19



3D screen shot	Hot spot position
	

MEASUREMENT 21

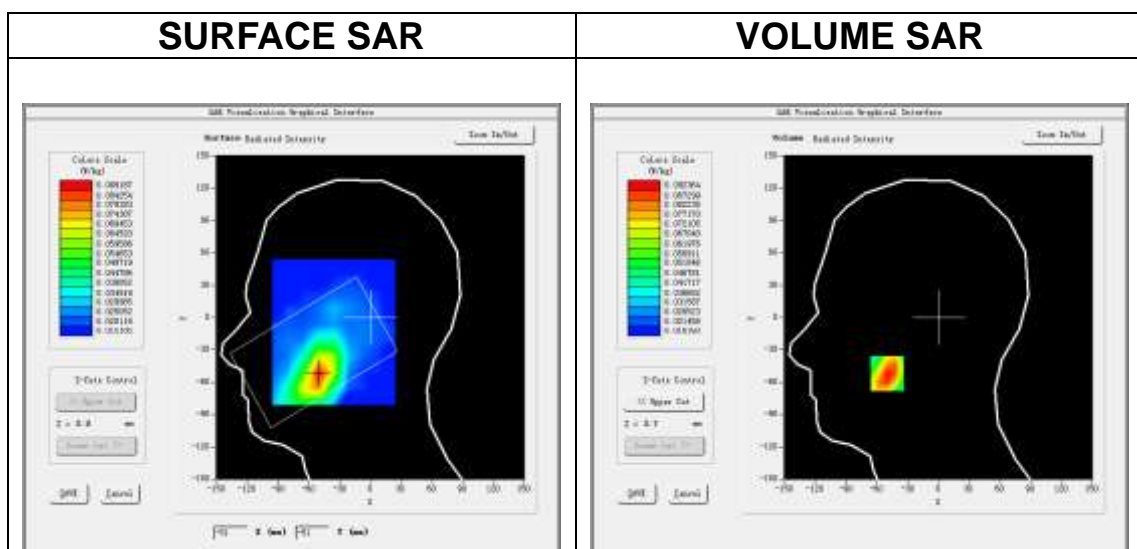
Date of measurement: 22/12/2020

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

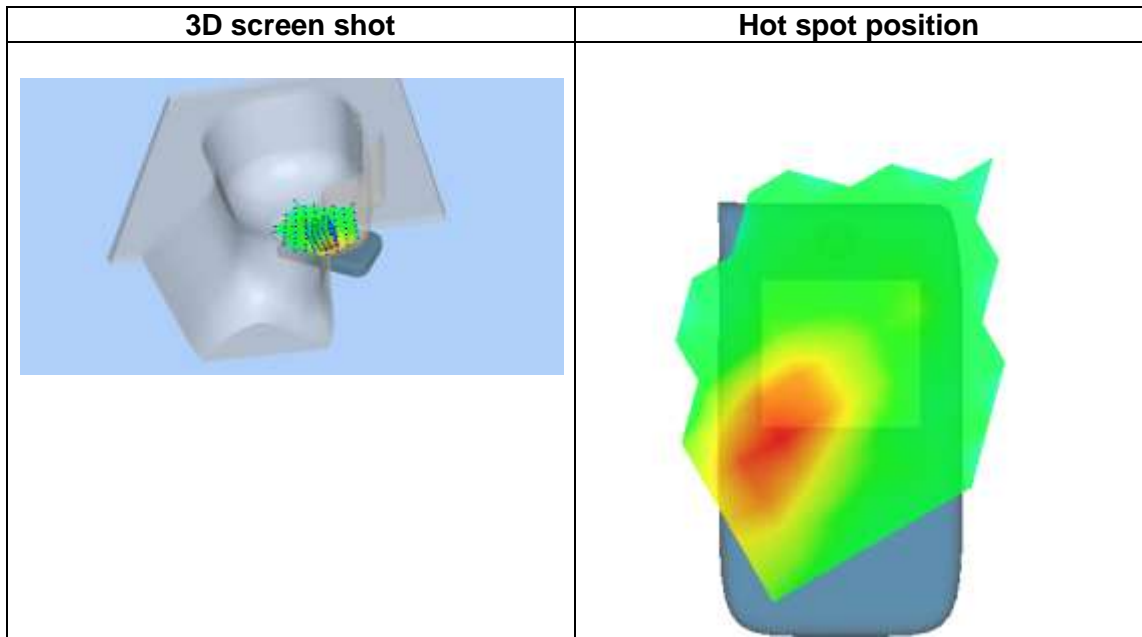
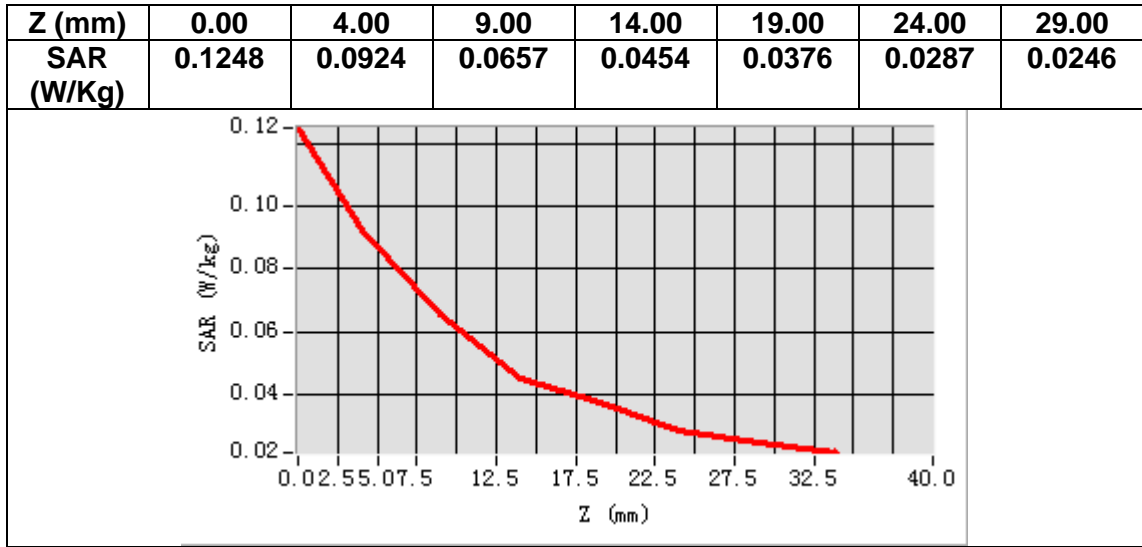
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.501461
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-0.810000



Maximum location: X=-50.00, Y=-52.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.058235
SAR 1g (W/Kg)	0.089962



MEASUREMENT 22

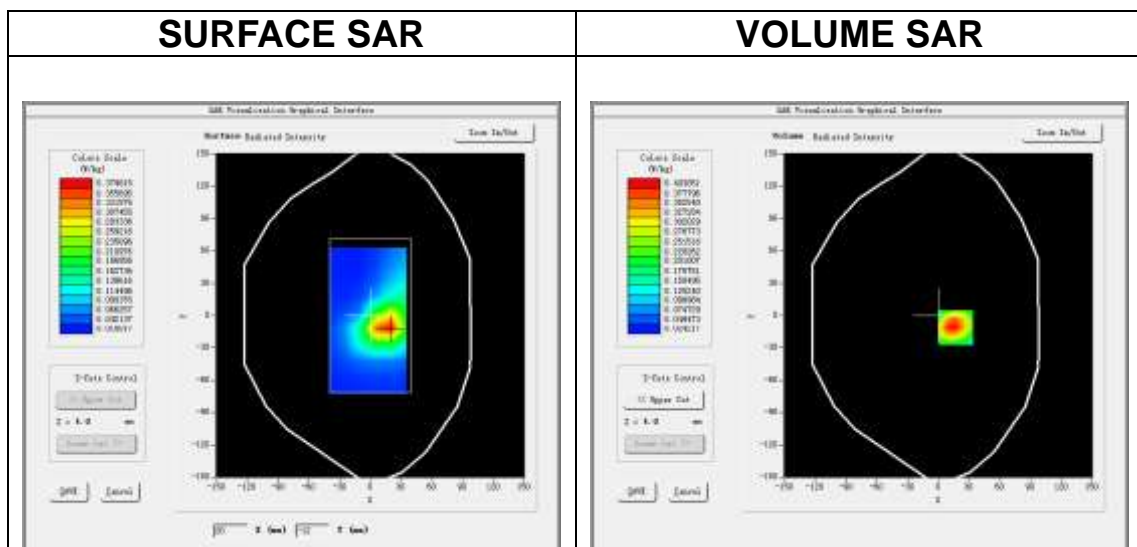
Date of measurement: 22/12/2020

A. Experimental conditions.

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

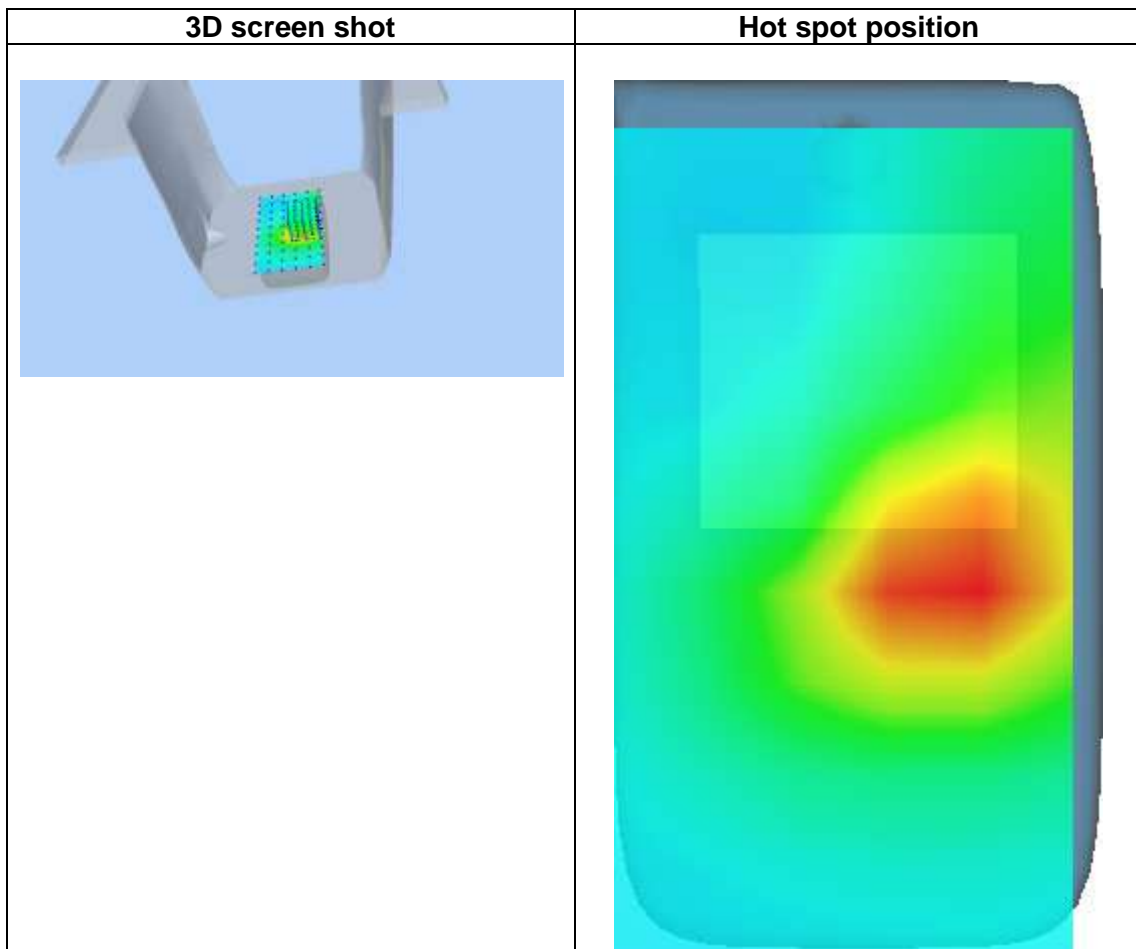
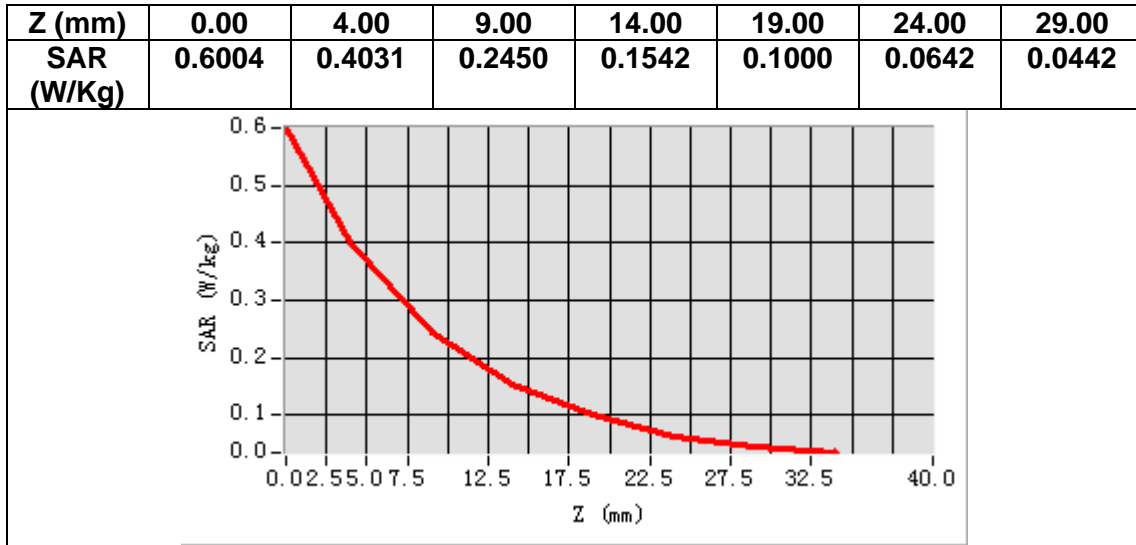
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.501461
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-1.380000



Maximum location: X=17.00, Y=-11.00
SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.219773
SAR 1g (W/Kg)	0.390040



MEASUREMENT 23

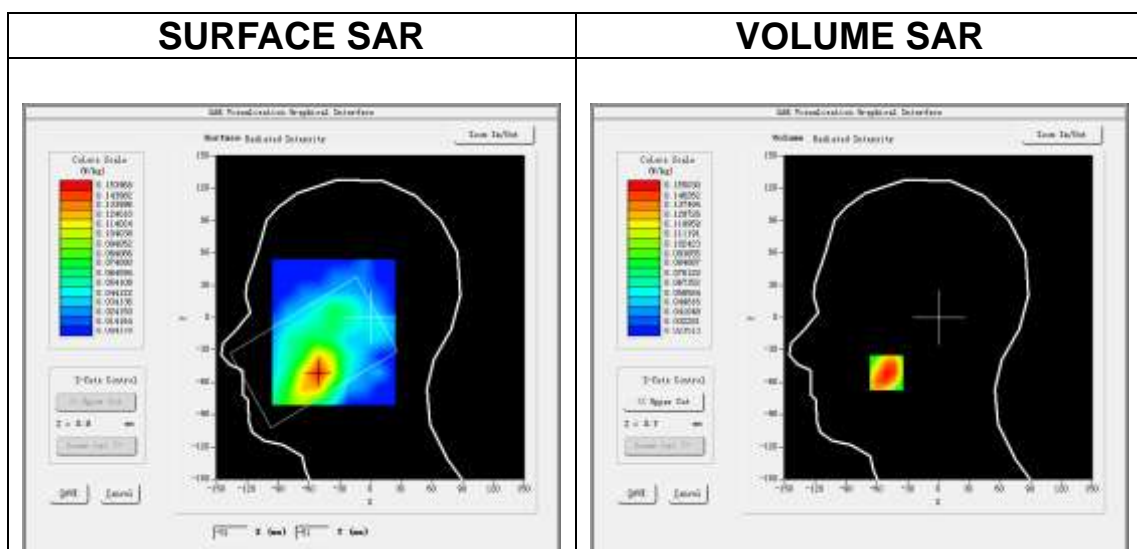
Date of measurement: 14/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

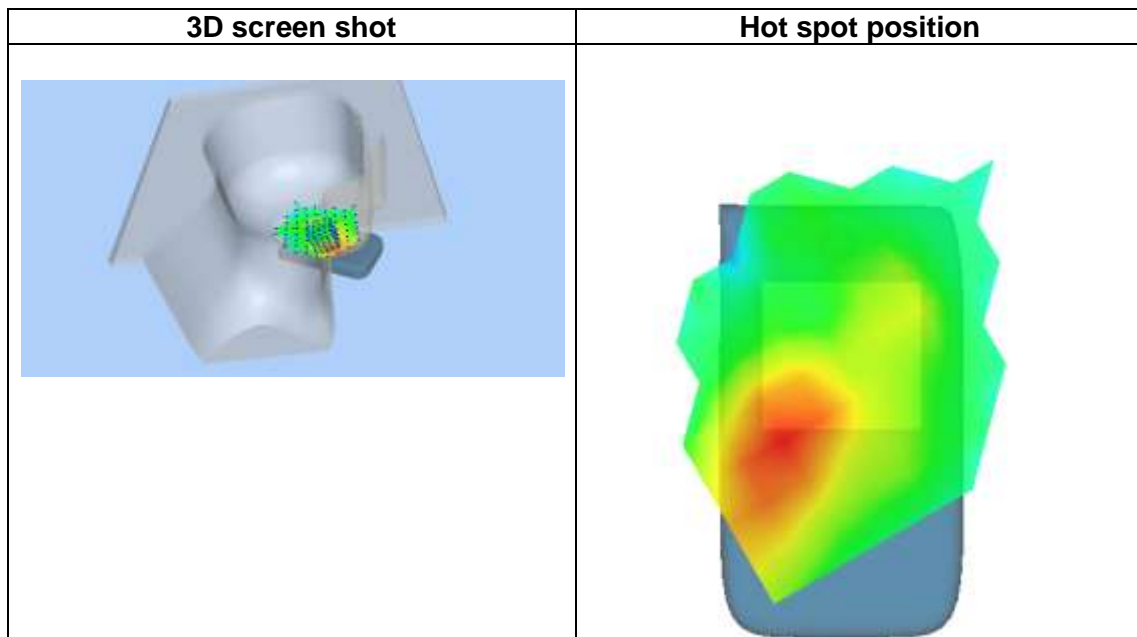
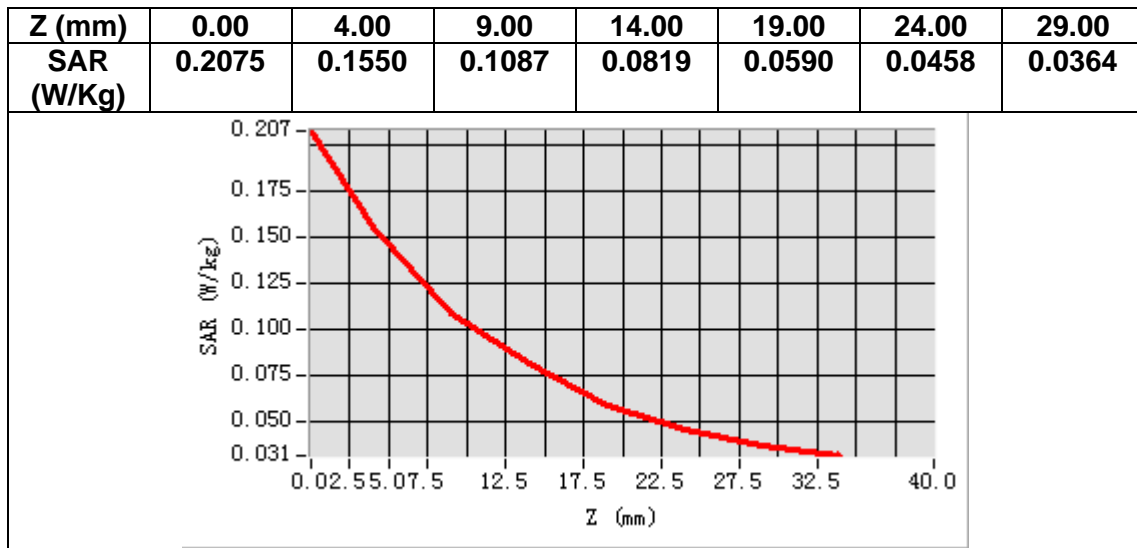
Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.841984
Relative permittivity (imaginary part)	14.038328
Conductivity (S/m)	1.351189
Variation (%)	-0.090000



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

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.099107
SAR 1g (W/Kg)	0.150732



MEASUREMENT 24

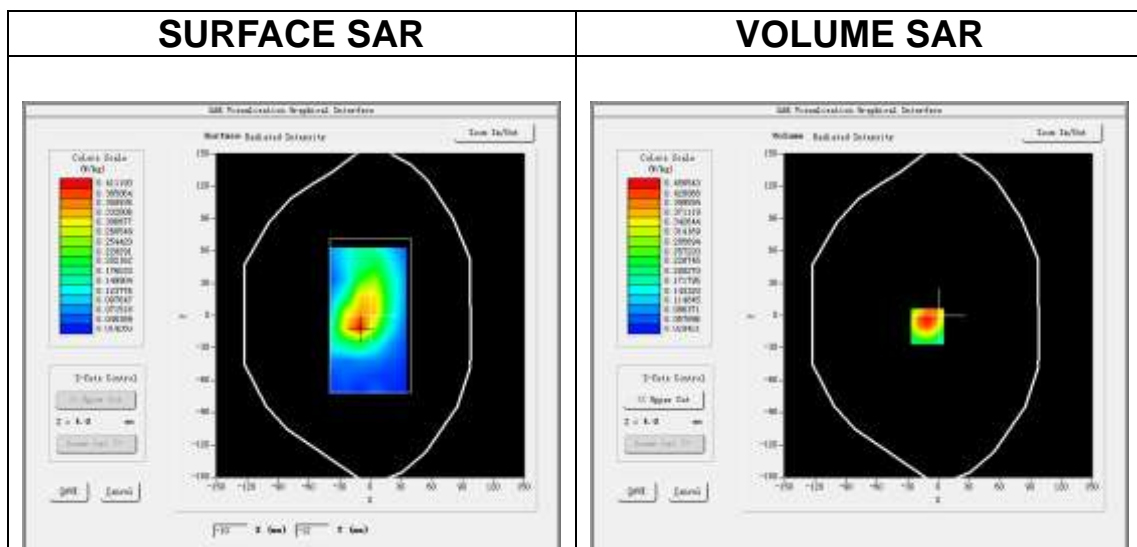
Date of measurement: 14/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

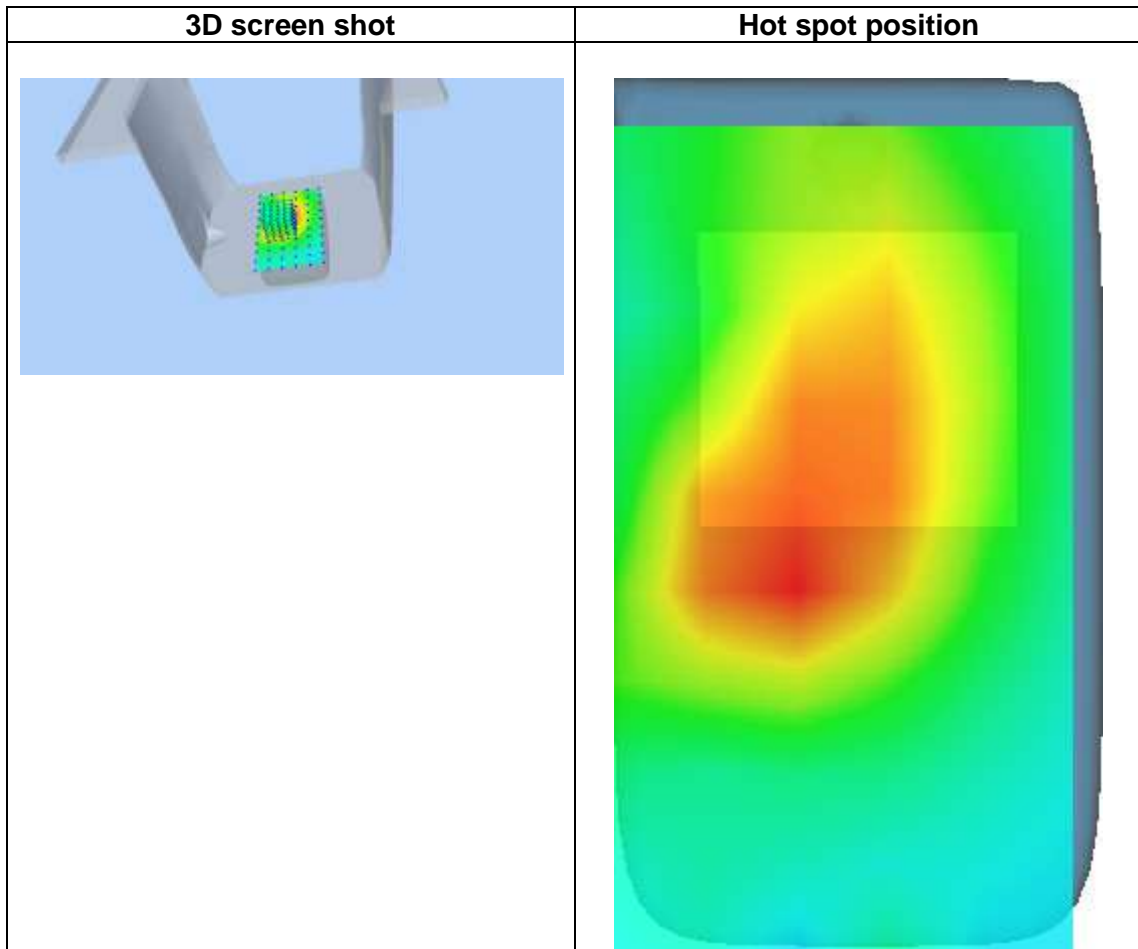
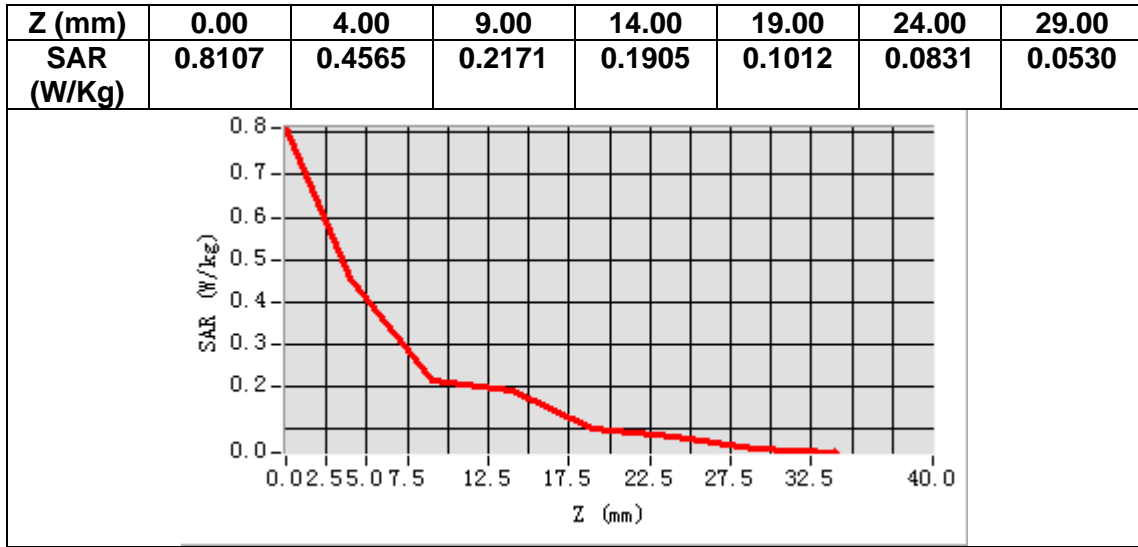
Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.841984
Relative permittivity (imaginary part)	14.038328
Conductivity (S/m)	1.351189
Variation (%)	-0.490000



Maximum location: X=-11.00, Y=-10.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.261570
SAR 1g (W/Kg)	0.437159



MEASUREMENT 25

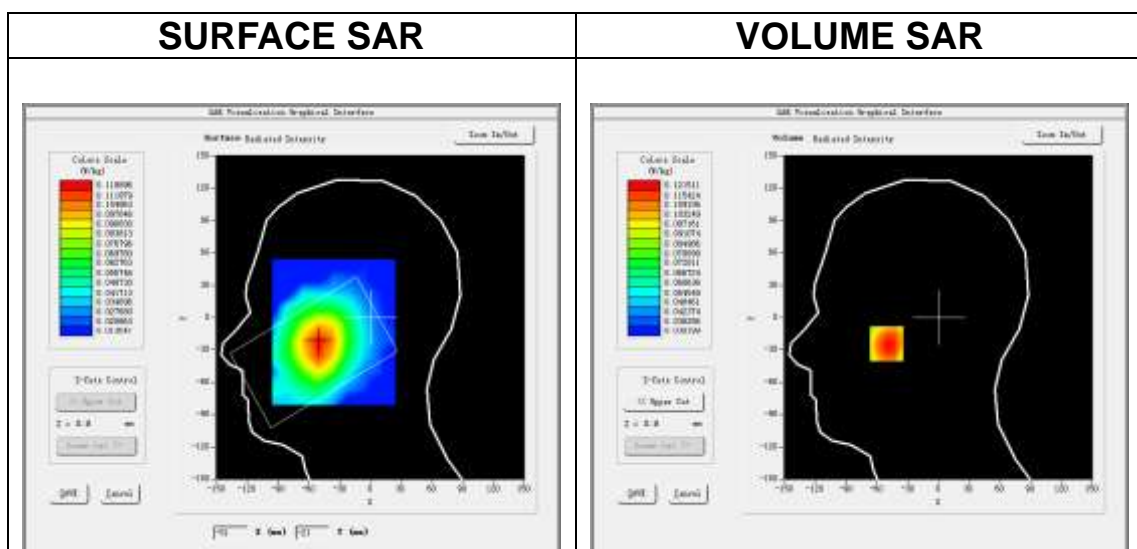
Date of measurement: 21/12/2020

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

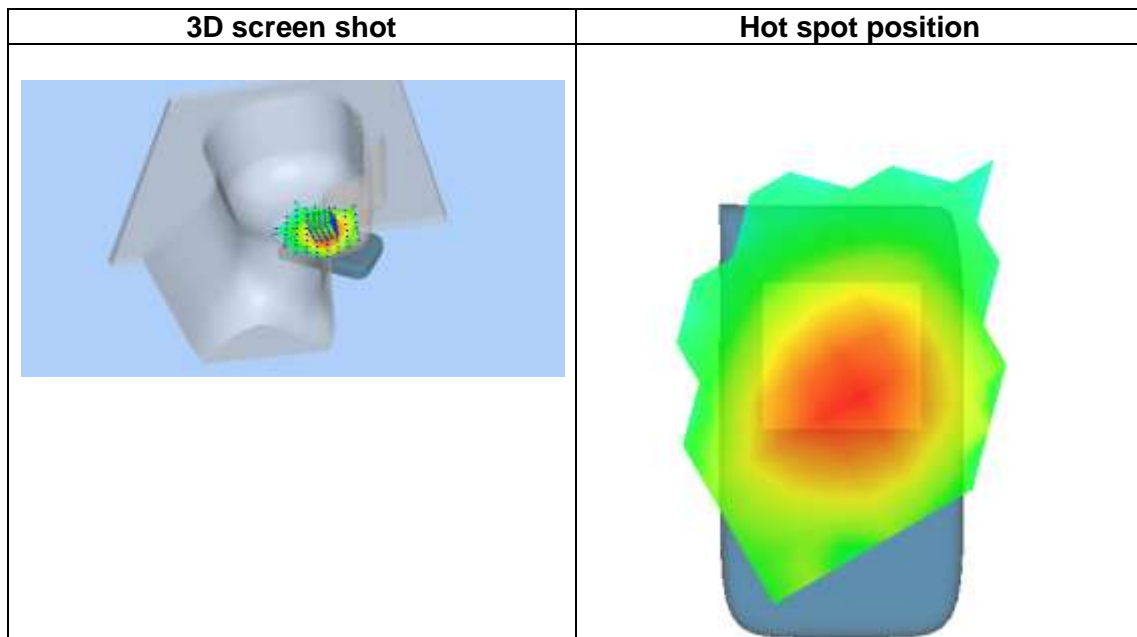
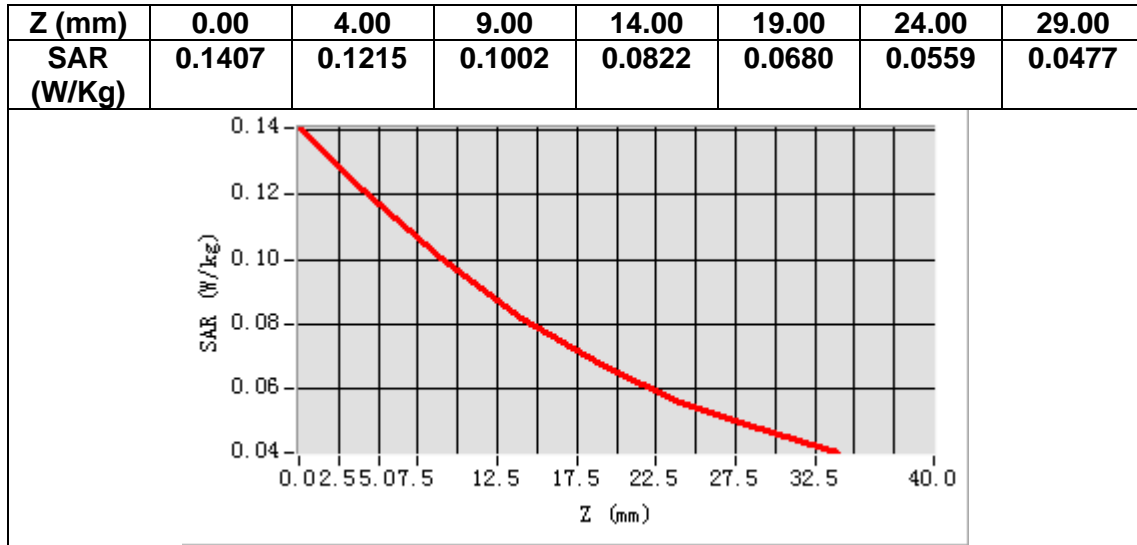
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.512474
Relative permittivity (imaginary part)	19.635672
Conductivity (S/m)	0.912513
Variation (%)	1.360000



Maximum location: X=-51.00, Y=-24.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.091989
SAR 1g (W/Kg)	0.119605



MEASUREMENT 26

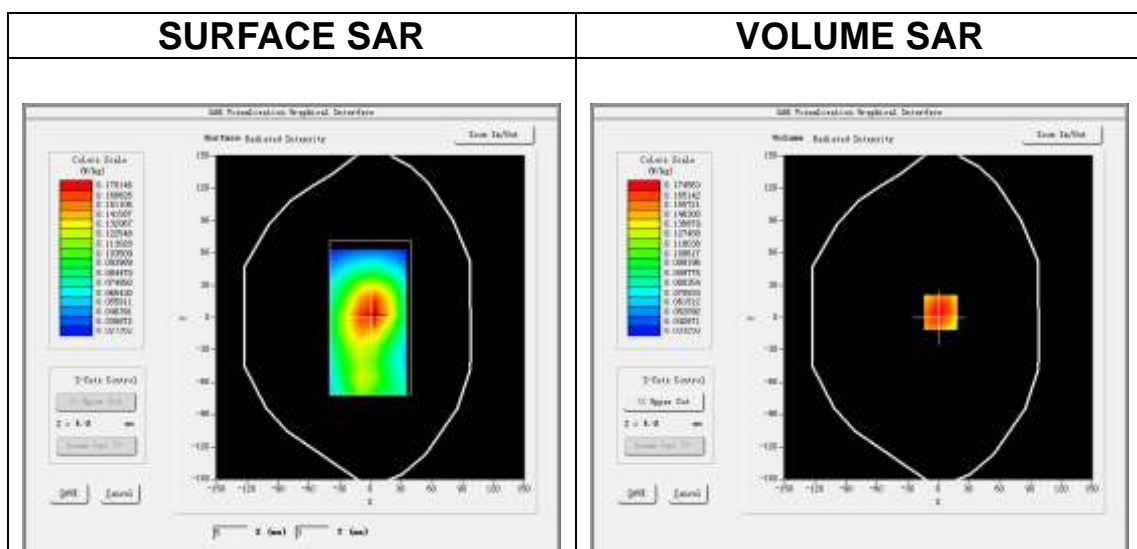
Date of measurement: 21/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

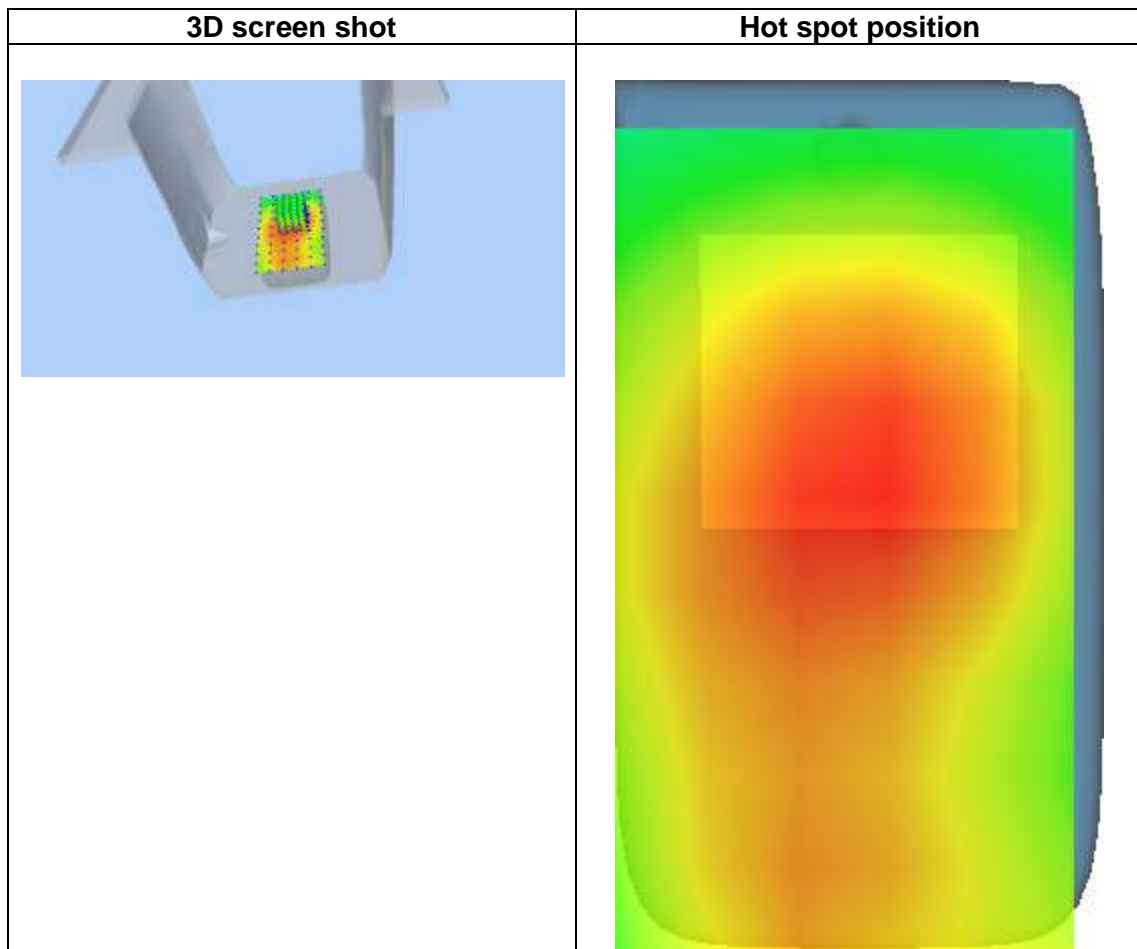
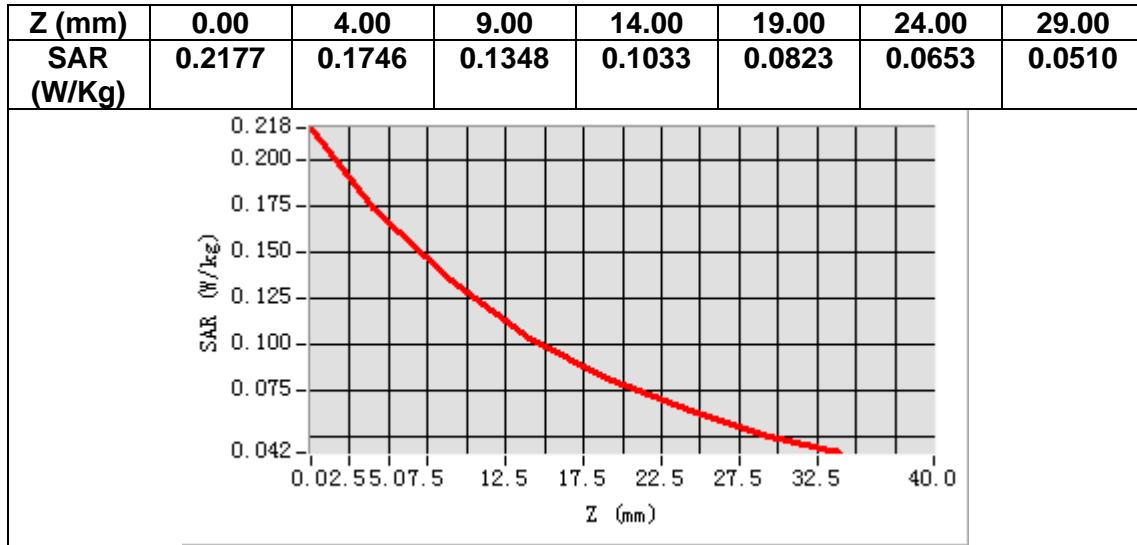
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.512474
Relative permittivity (imaginary part)	19.635672
Conductivity (S/m)	0.912513
Variation (%)	-0.640000



Maximum location: X=2.00, Y=5.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.125991
SAR 1g (W/Kg)	0.171553



MEASUREMENT 27

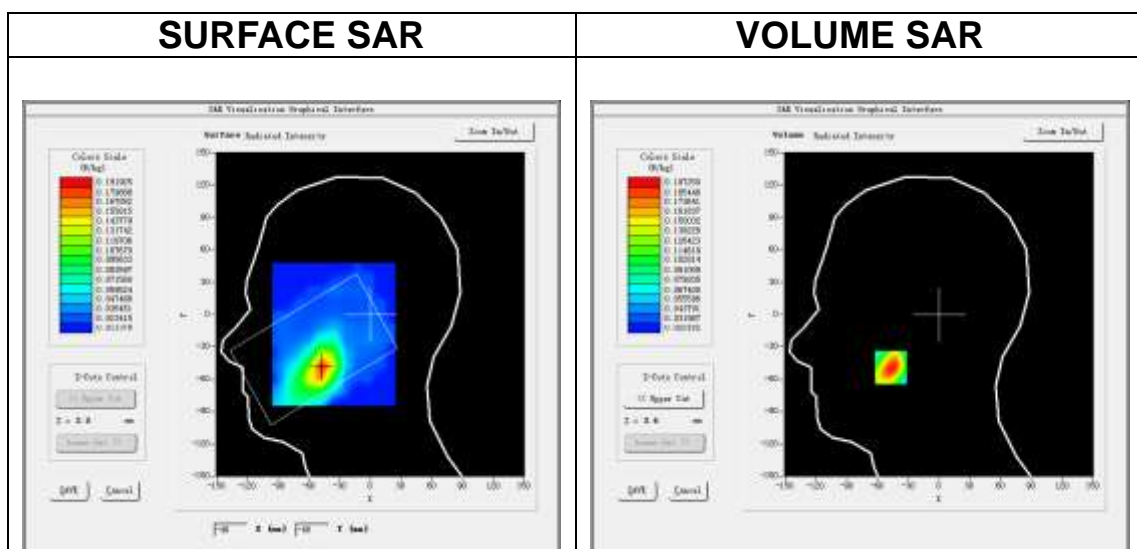
Date of measurement: 16/12/2020

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

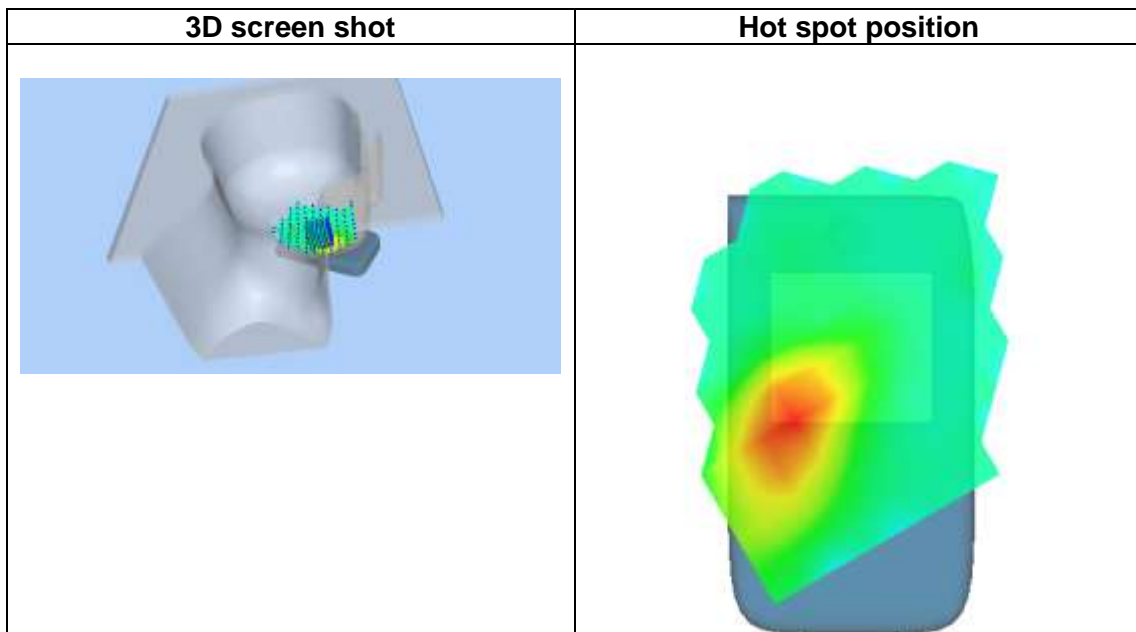
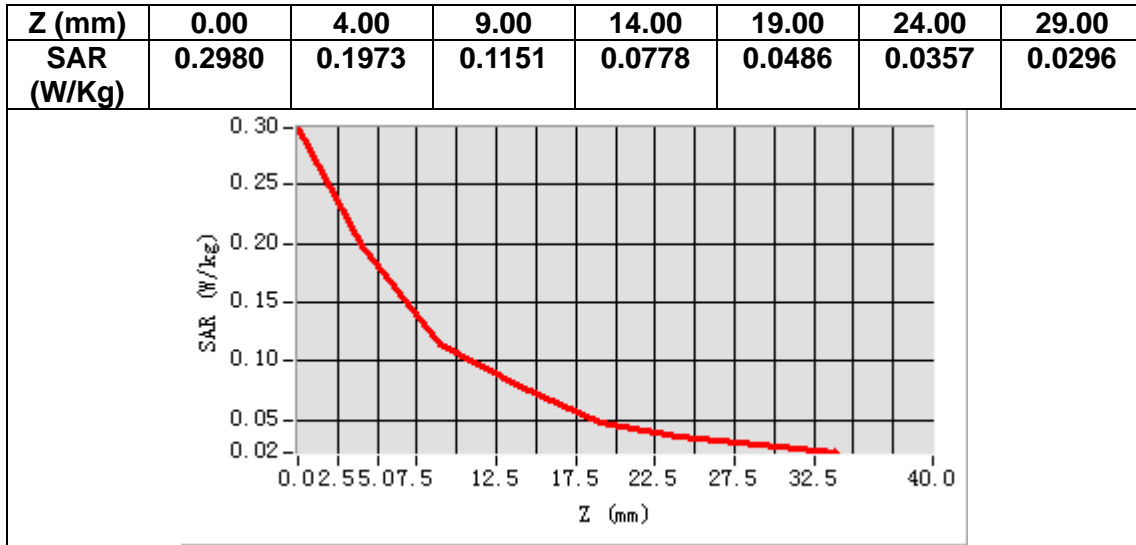
Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.060471
Relative permittivity (imaginary part)	13.790296
Conductivity (S/m)	1.942133
Variation (%)	-0.050000



Maximum location: X=-47.00, Y=-49.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.104154
SAR 1g (W/Kg)	0.188112



MEASUREMENT 28

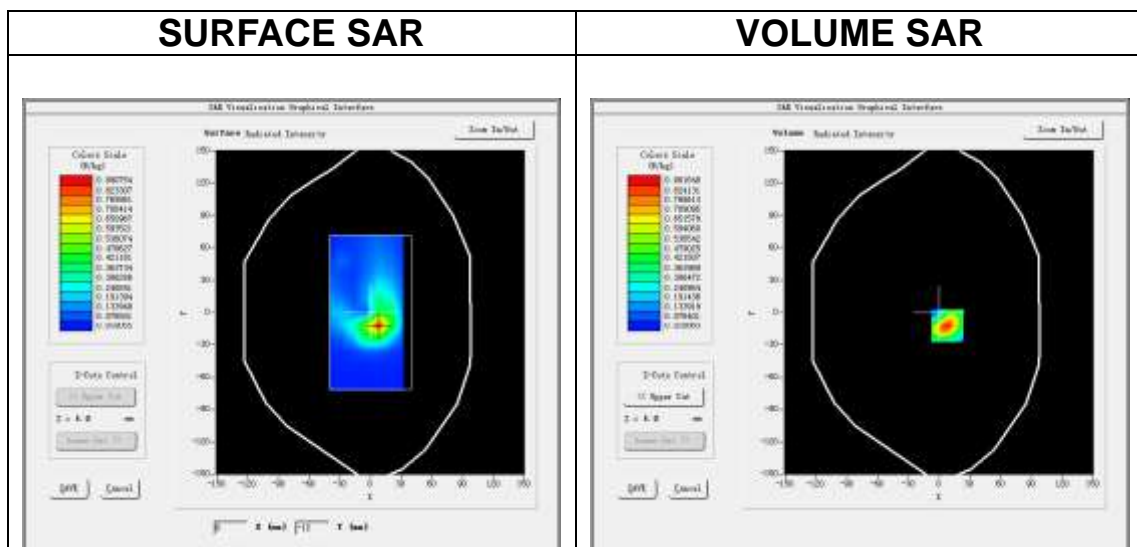
Date of measurement: 16/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

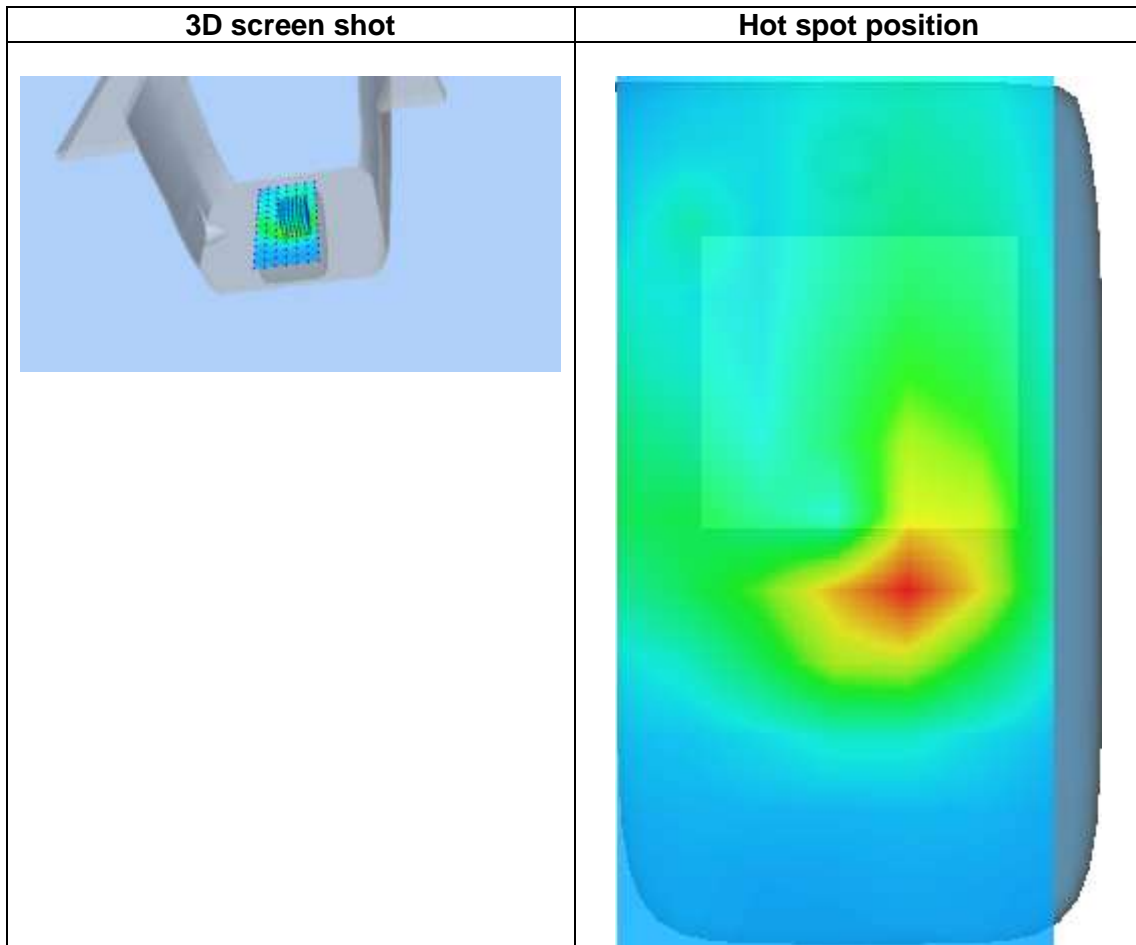
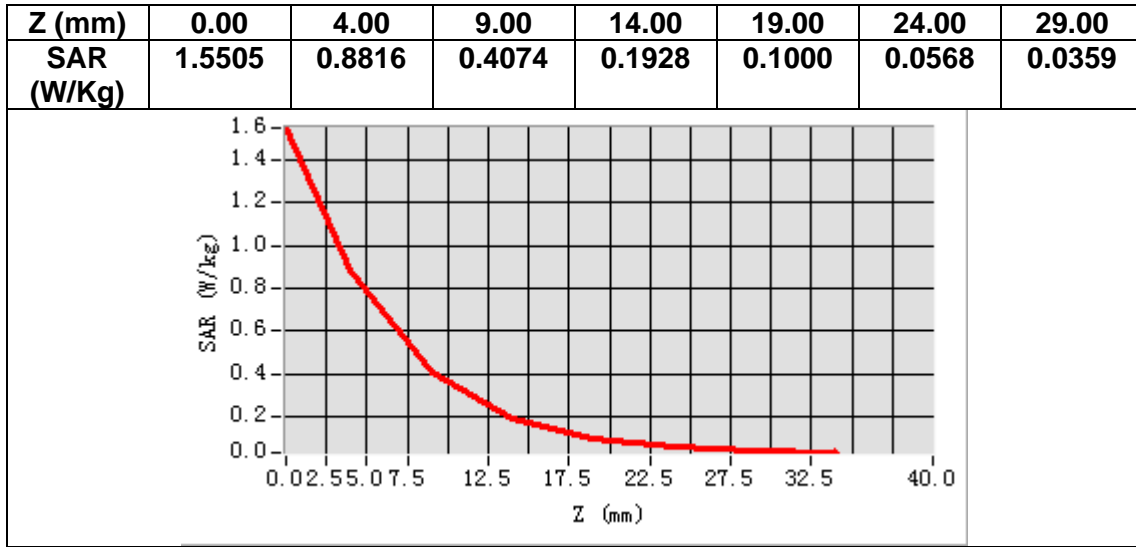
Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.060471
Relative permittivity (imaginary part)	13.790296
Conductivity (S/m)	1.942133
Variation (%)	-0.510000



Maximum location: X=8.00, Y=-12.00

SAR Peak: 1.54 W/kg

SAR 10g (W/Kg)	0.356119
SAR 1g (W/Kg)	0.810971



MEASUREMENT 29

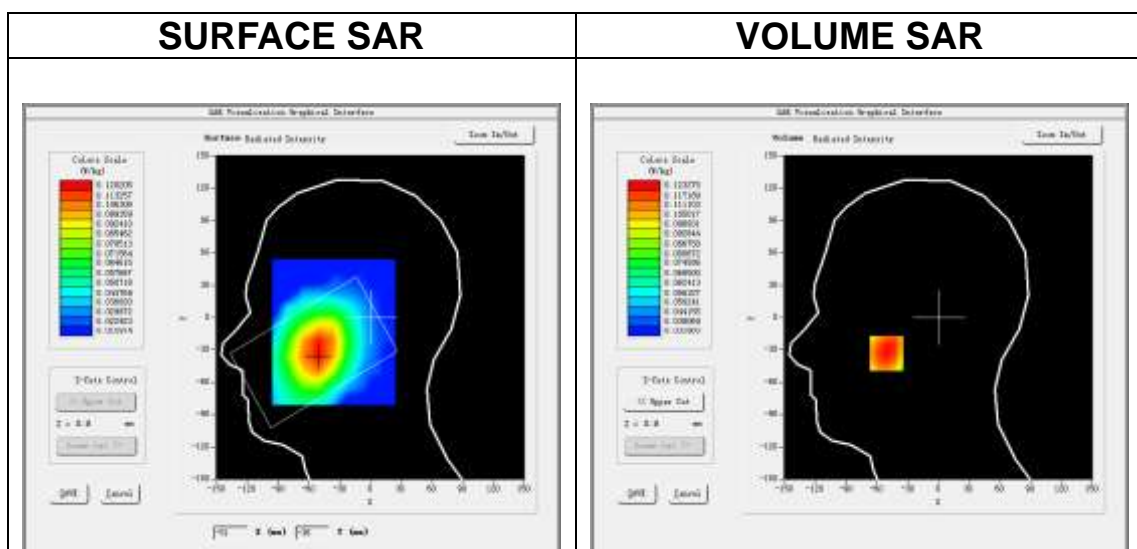
Date of measurement: 18/12/2020

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

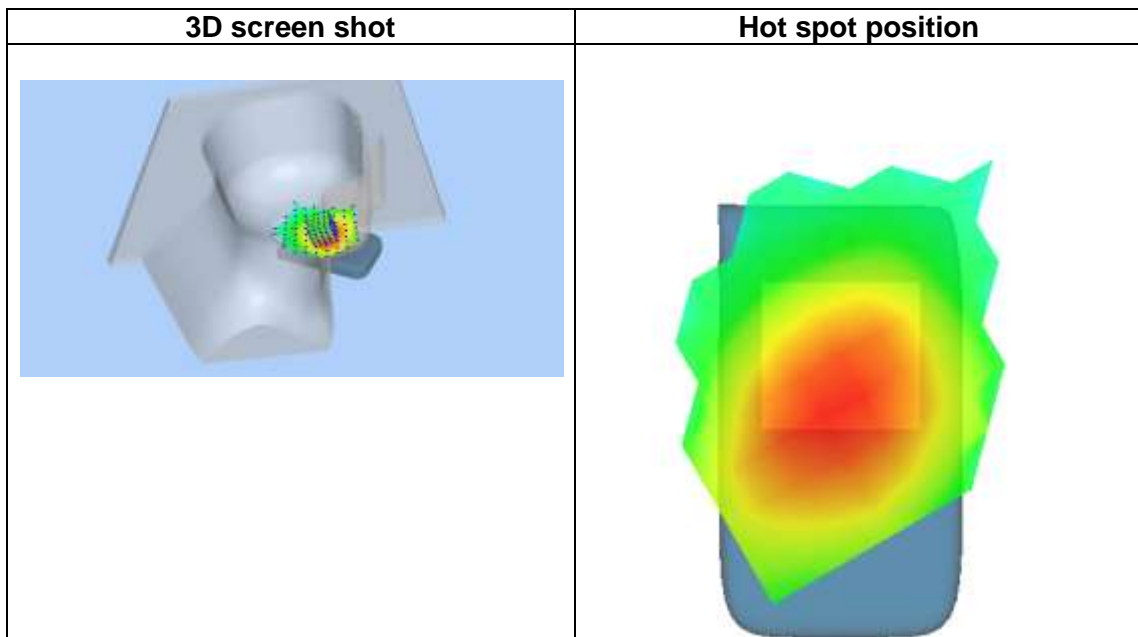
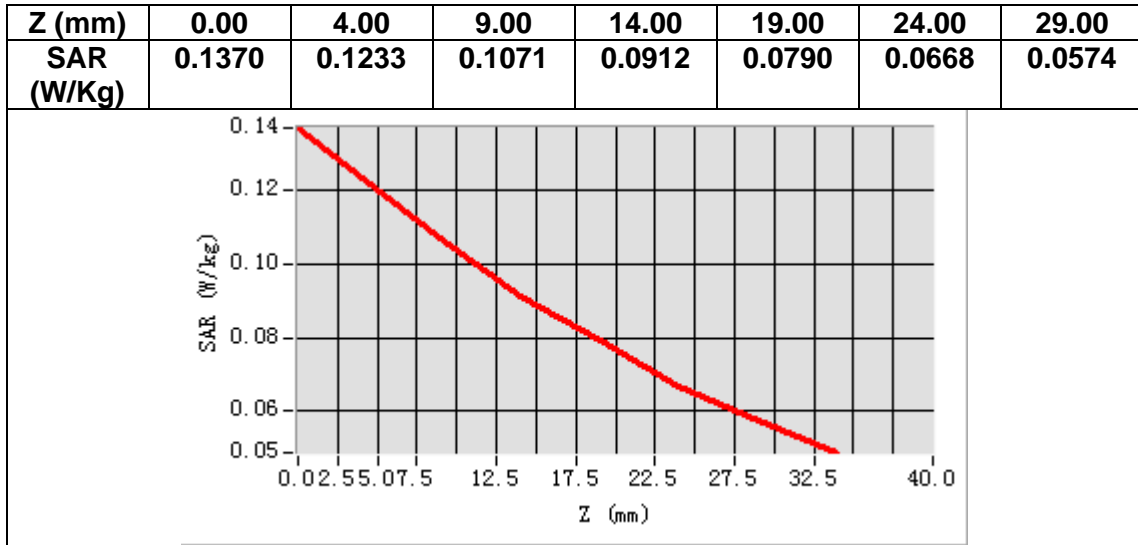
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.805187
Relative permittivity (imaginary part)	21.857763
Conductivity (S/m)	0.859132
Variation (%)	-1.680000



Maximum location: X=-51.00, Y=-33.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.098415
SAR 1g (W/Kg)	0.120421



MEASUREMENT 30

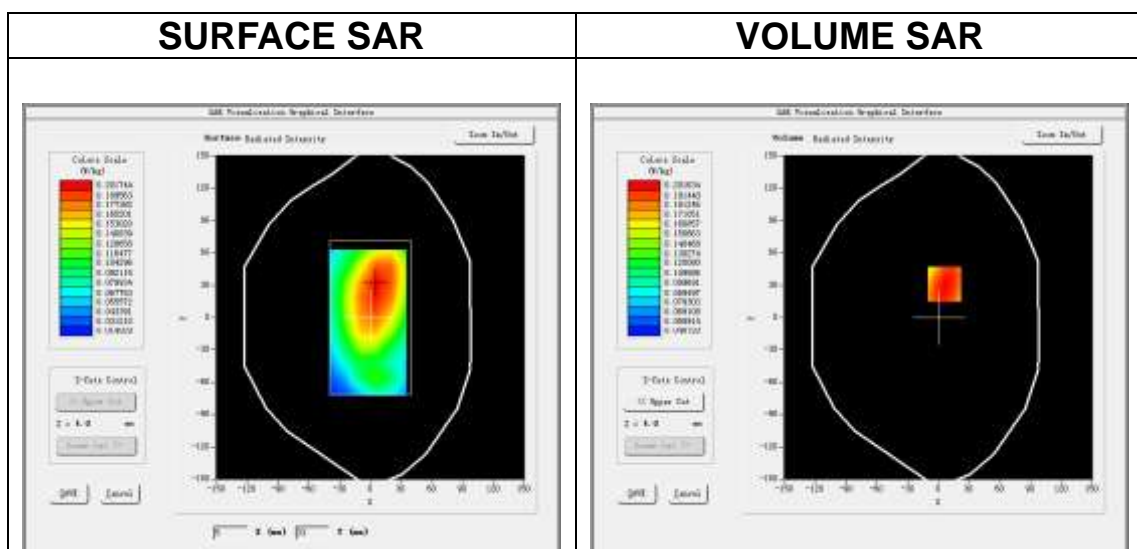
Date of measurement: 8/12/2020

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

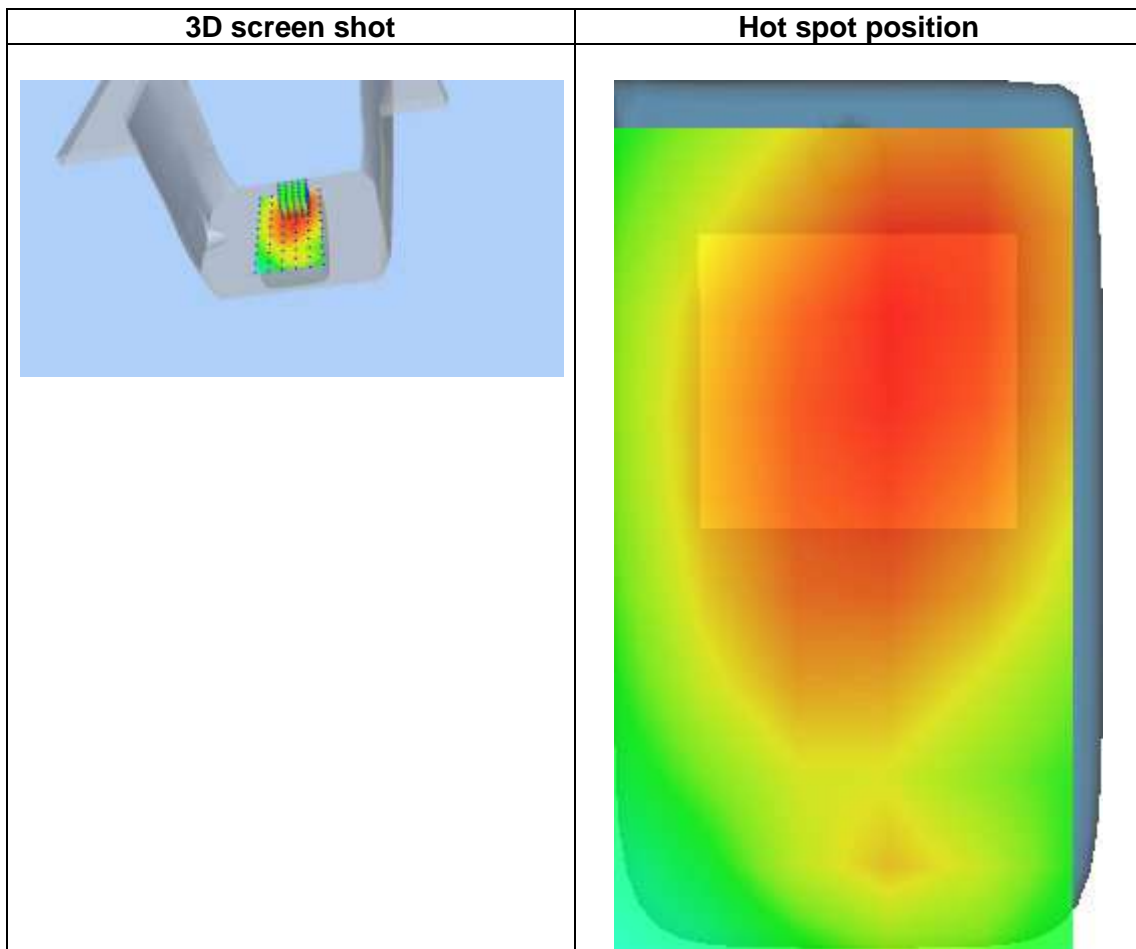
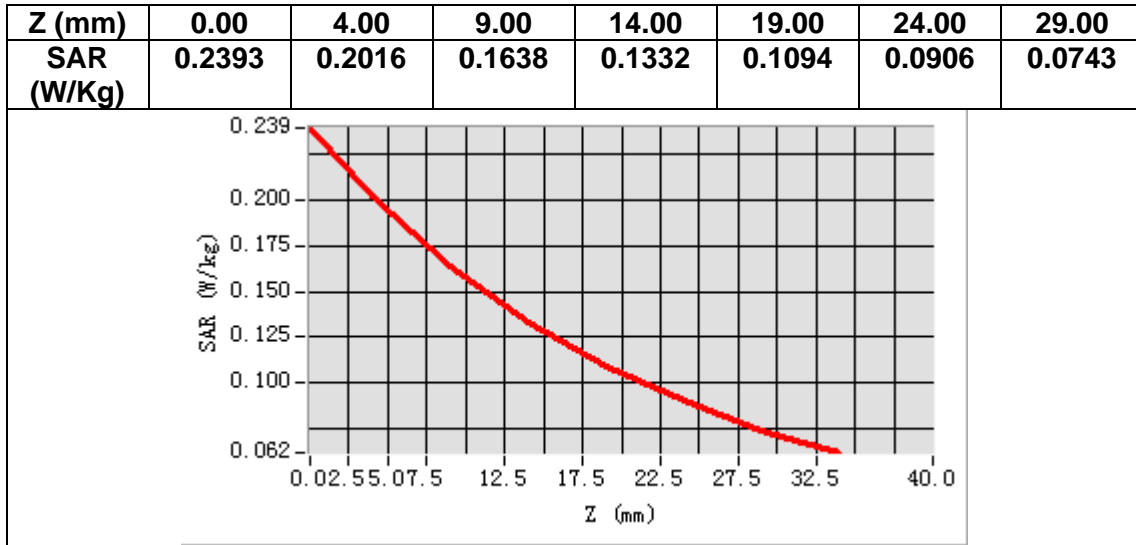
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.805187
Relative permittivity (imaginary part)	21.857763
Conductivity (S/m)	0.859132
Variation (%)	-0.450000



Maximum location: X=6.00, Y=31.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.154475
SAR 1g (W/Kg)	0.196416



MEASUREMENT 31

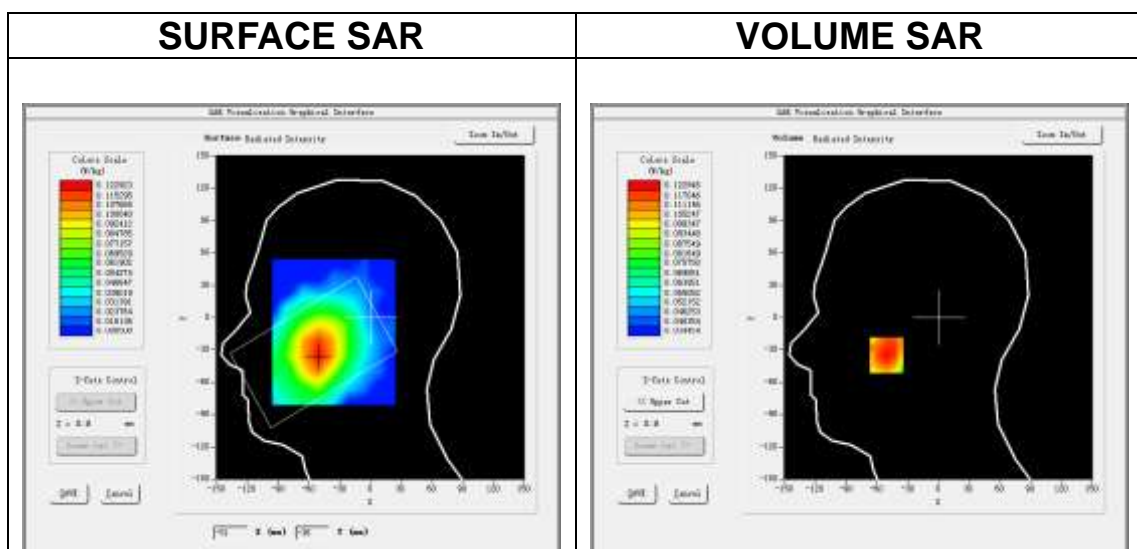
Date of measurement: 18/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

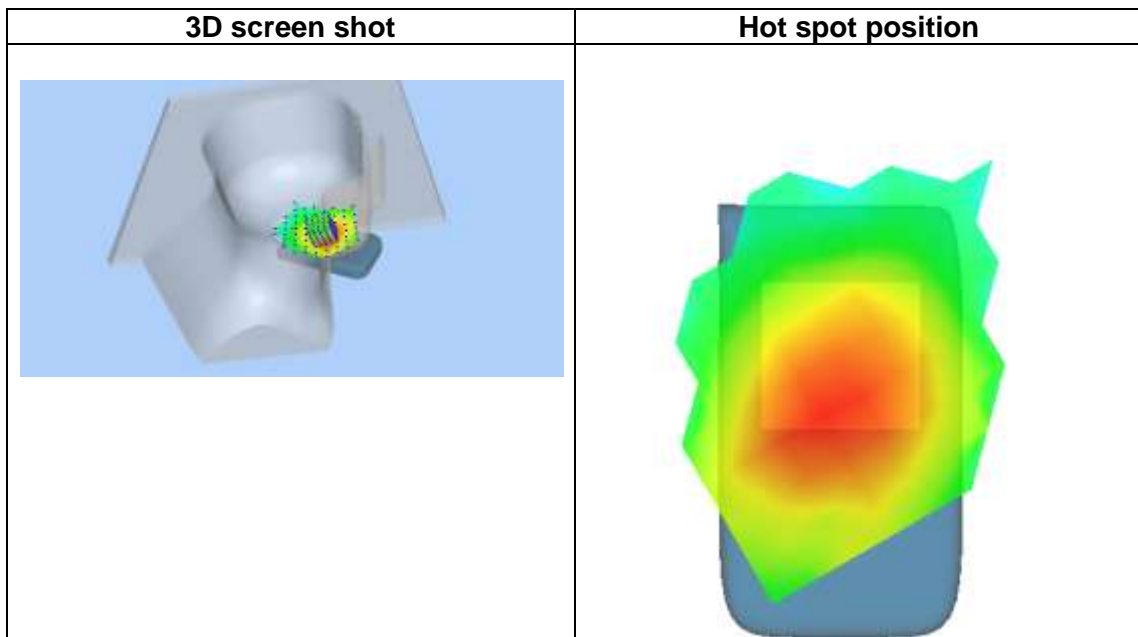
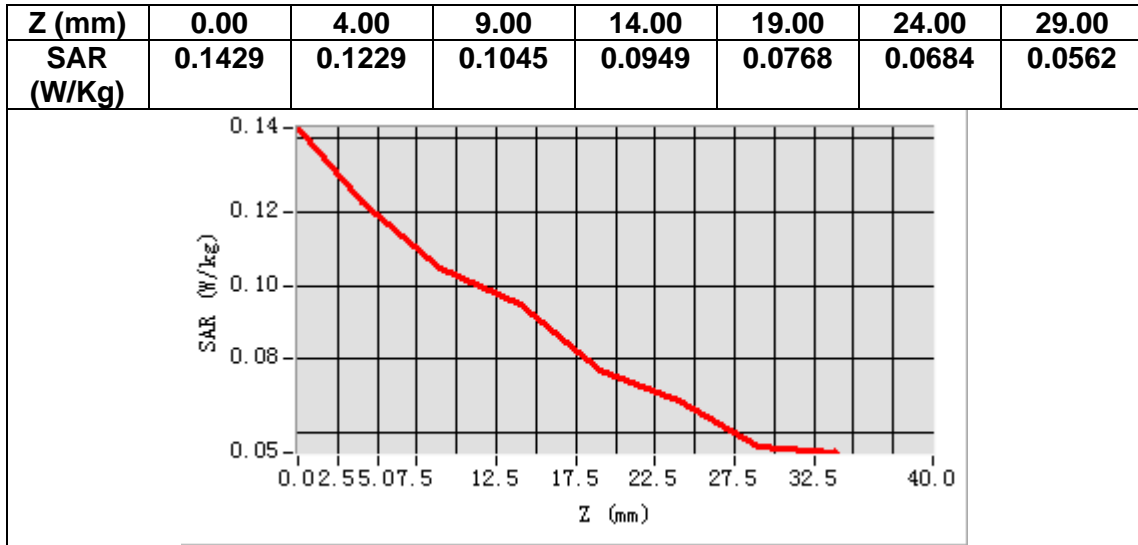
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.783936
Relative permittivity (imaginary part)	21.886164
Conductivity (S/m)	0.863288
Variation (%)	2.470000



Maximum location: X=-51.00, Y=-35.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.097383
SAR 1g (W/Kg)	0.121465



MEASUREMENT 32

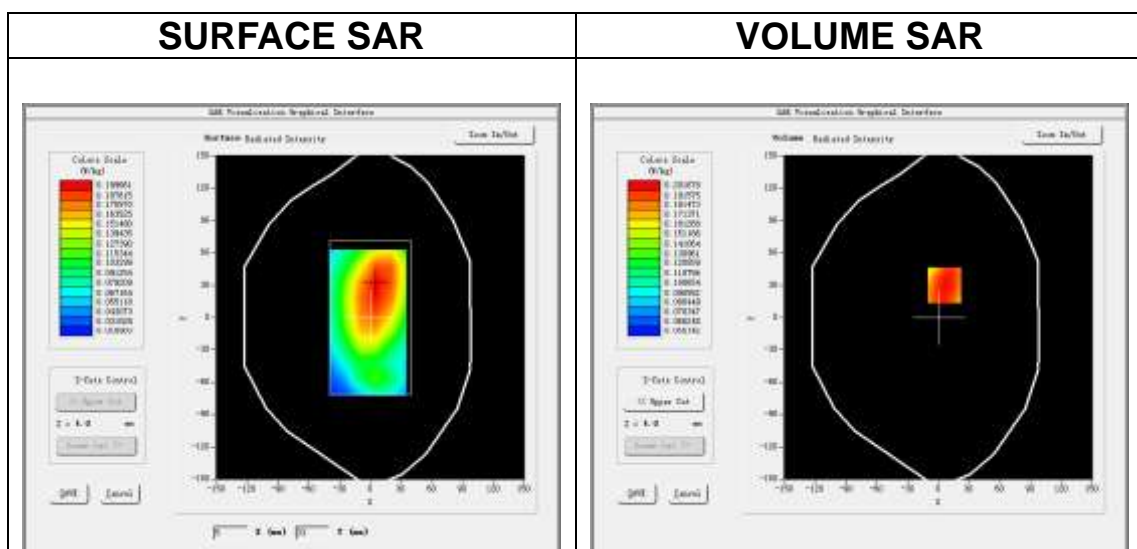
Date of measurement: 18/12/2020

A. Experimental conditions.

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

B. SAR Measurement Results

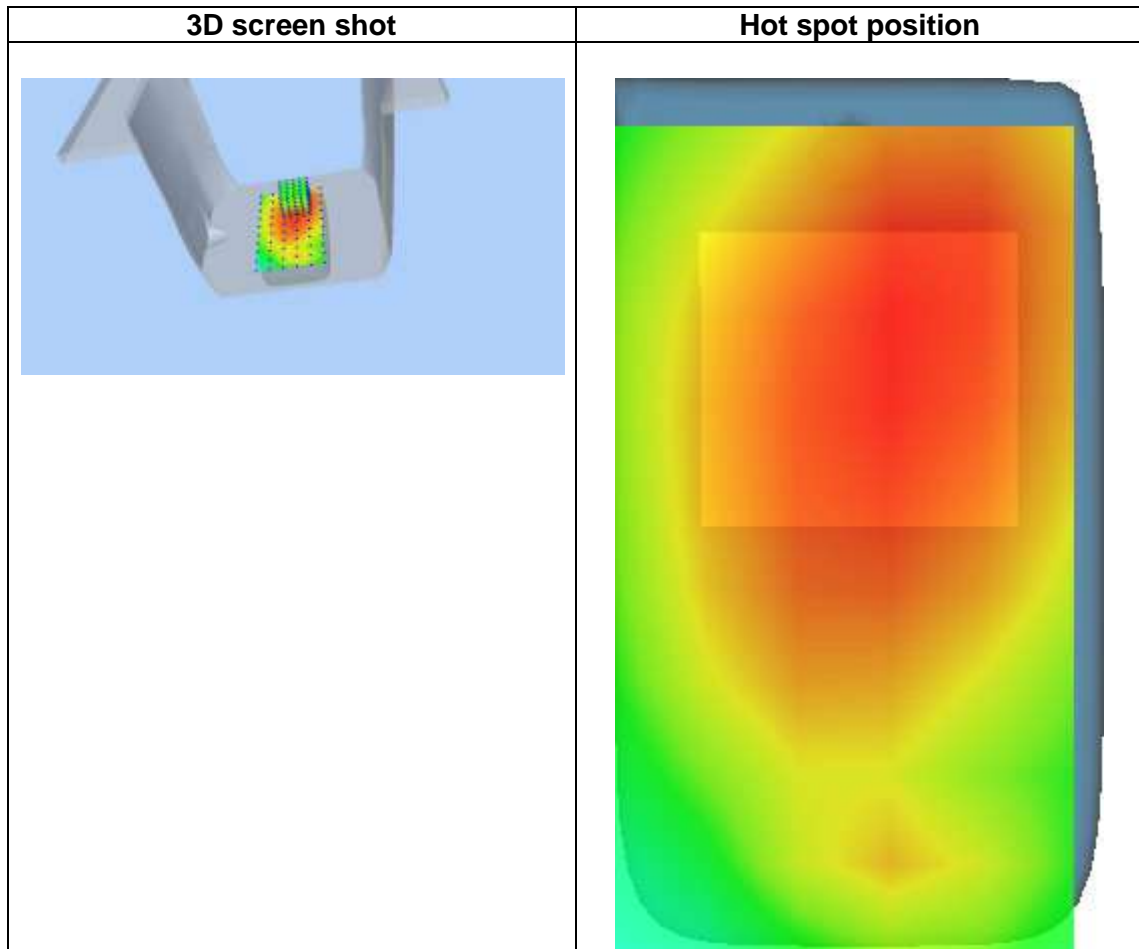
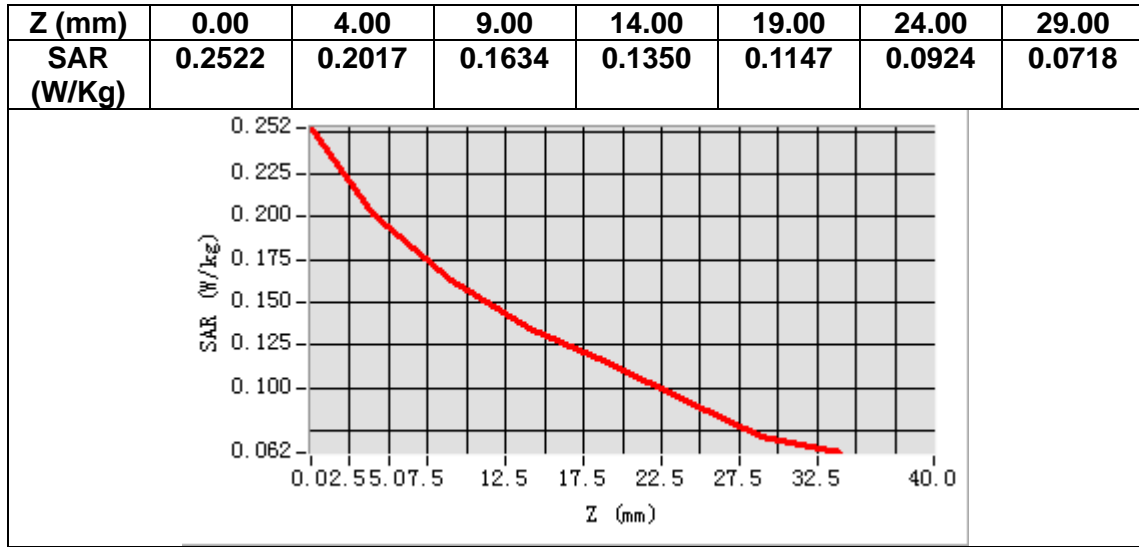
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.783936
Relative permittivity (imaginary part)	21.886164
Conductivity (S/m)	0.863288
Variation (%)	-0.190000



Maximum location: X=6.00, Y=30.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.153219
SAR 1g (W/Kg)	0.198260



MEASUREMENT 33

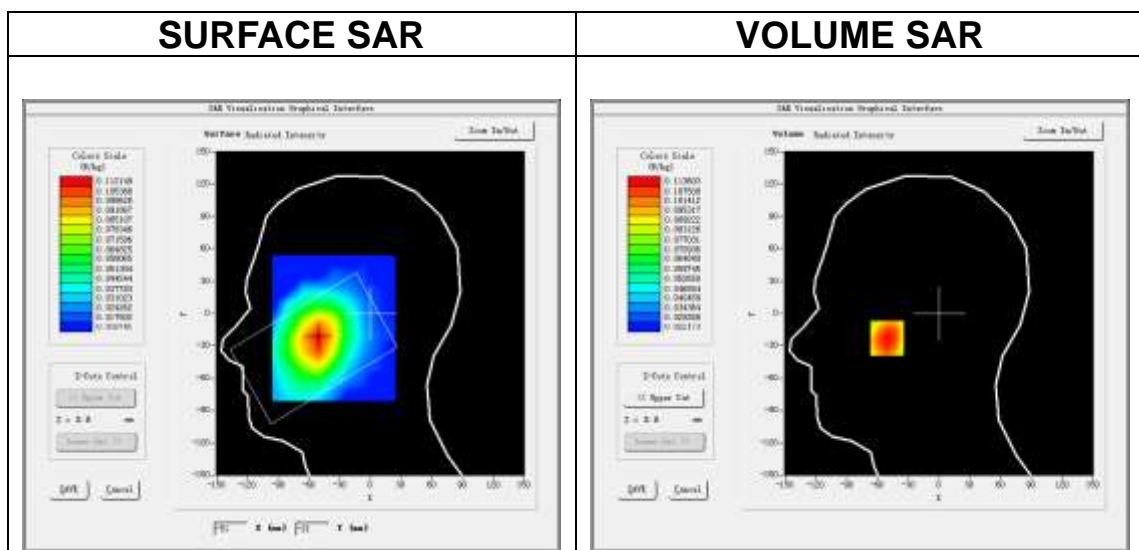
Date of measurement: 21/12/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>NR Band n5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>NR SA(Crest factor: 1.0)</u>

B. SAR Measurement Results

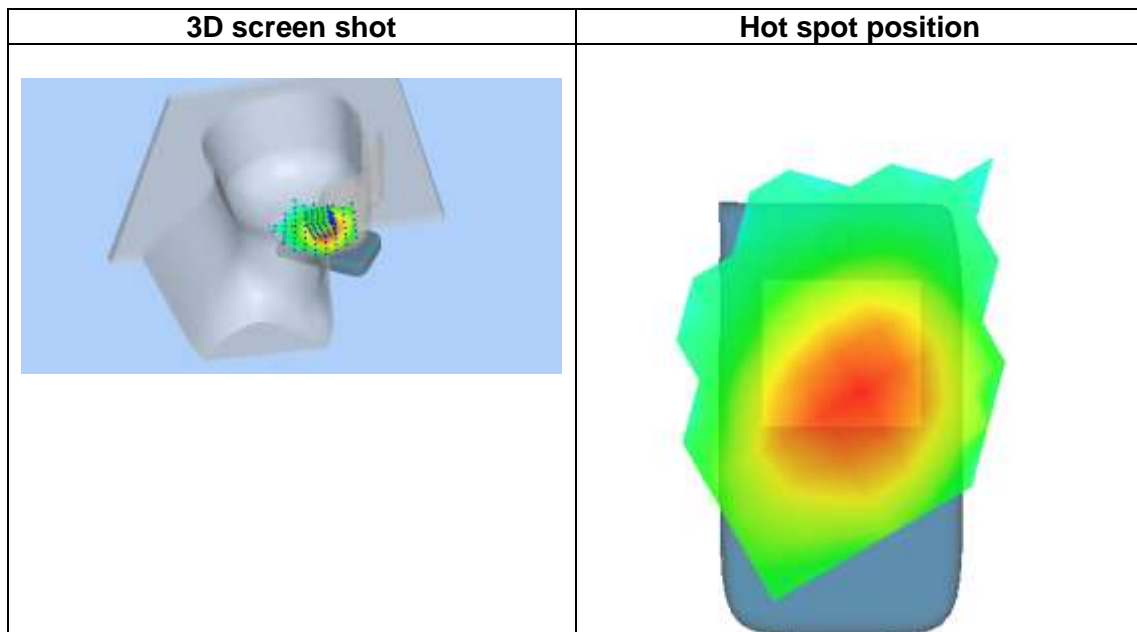
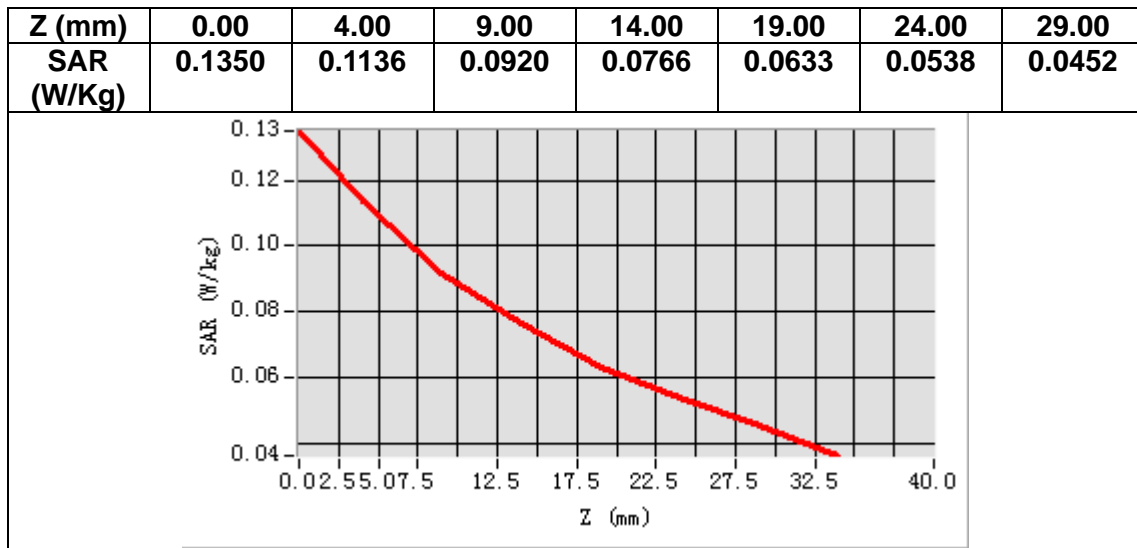
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.512474
Relative permittivity (imaginary part)	19.635672
Conductivity (S/m)	0.912513
Variation (%)	-3.350000



Maximum location: X=-51.00, Y=-23.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.084503
SAR 1g (W/Kg)	0.110093



MEASUREMENT 34

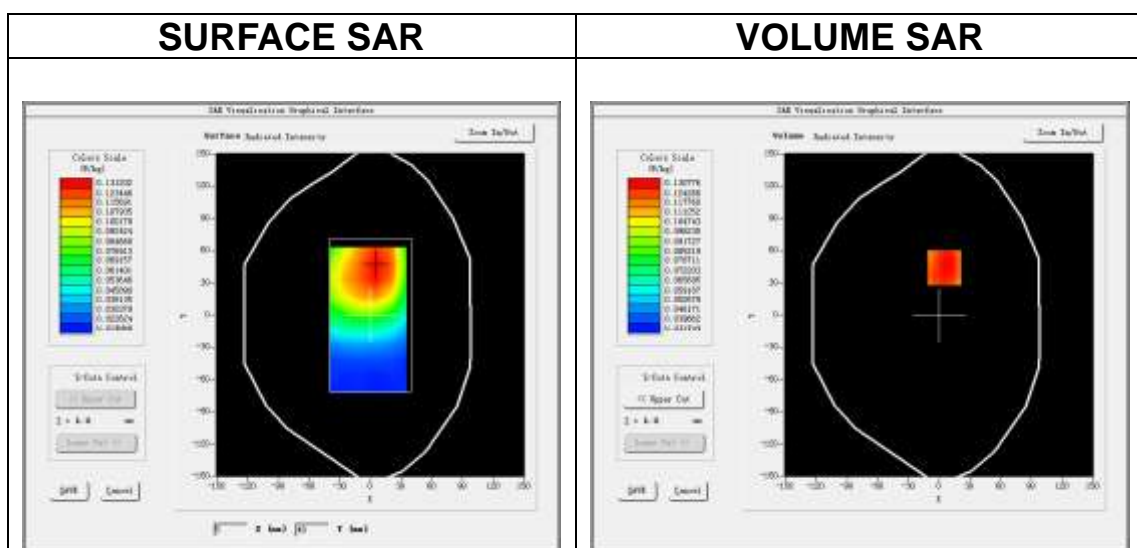
Date of measurement: 21/12/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>NR Band n5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>NR SA(Crest factor: 1.0)</u>

B. SAR Measurement Results

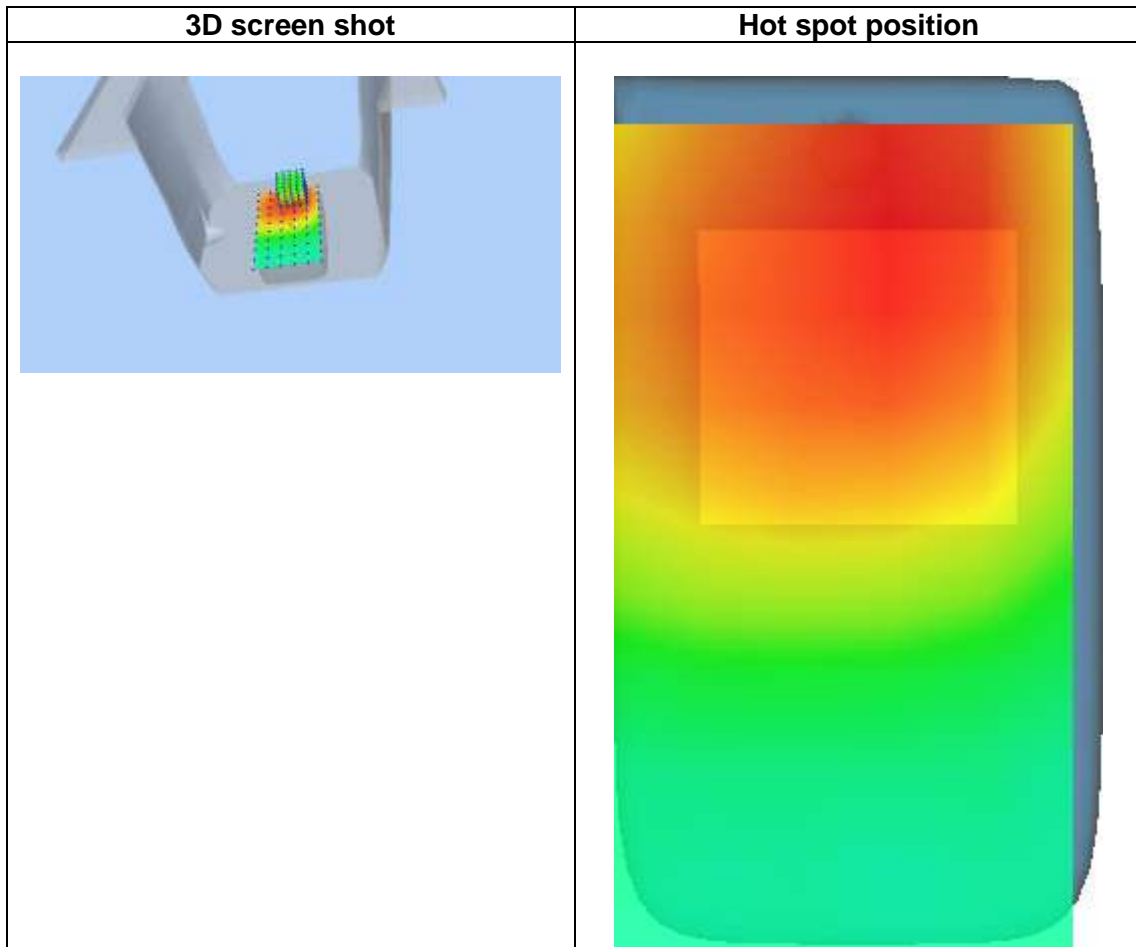
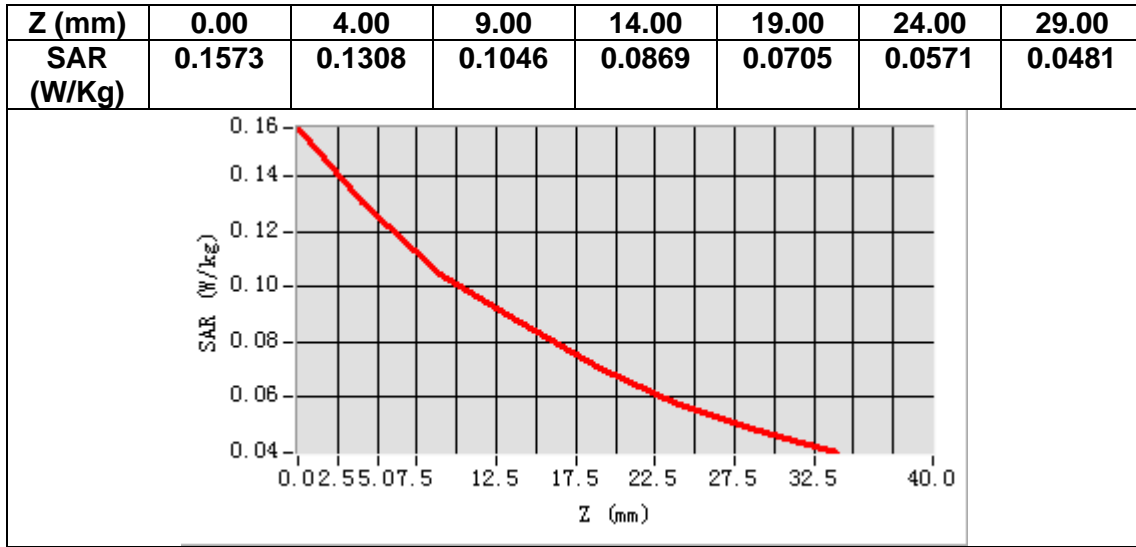
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.512474
Relative permittivity (imaginary part)	19.635672
Conductivity (S/m)	0.912513
Variation (%)	1.160000



Maximum location: X=5.00, Y=44.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.101120
SAR 1g (W/Kg)	0.130528



MEASUREMENT 35

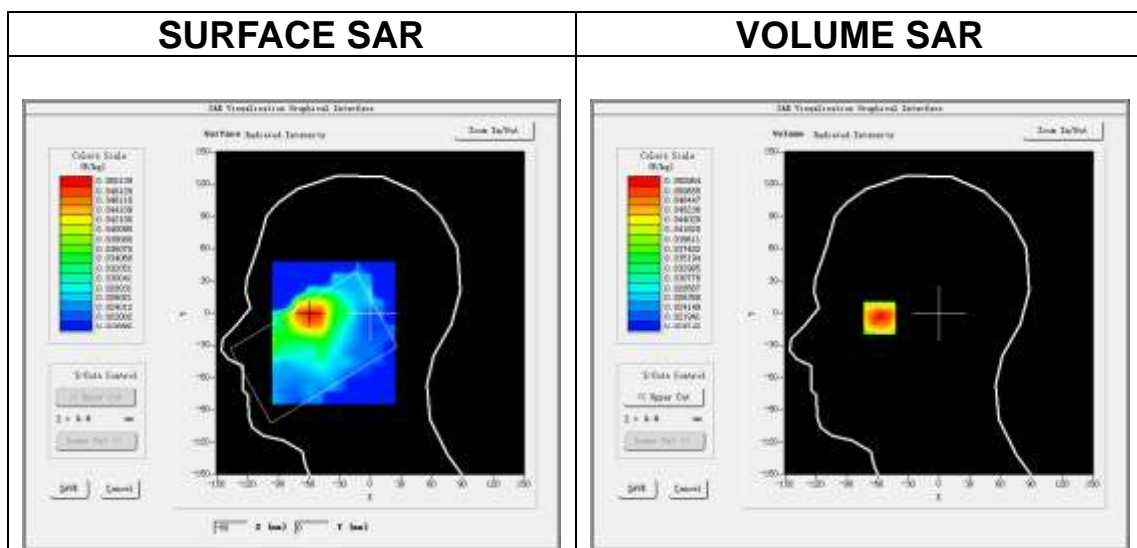
Date of measurement: 16/12/2020

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

B. SAR Measurement Results

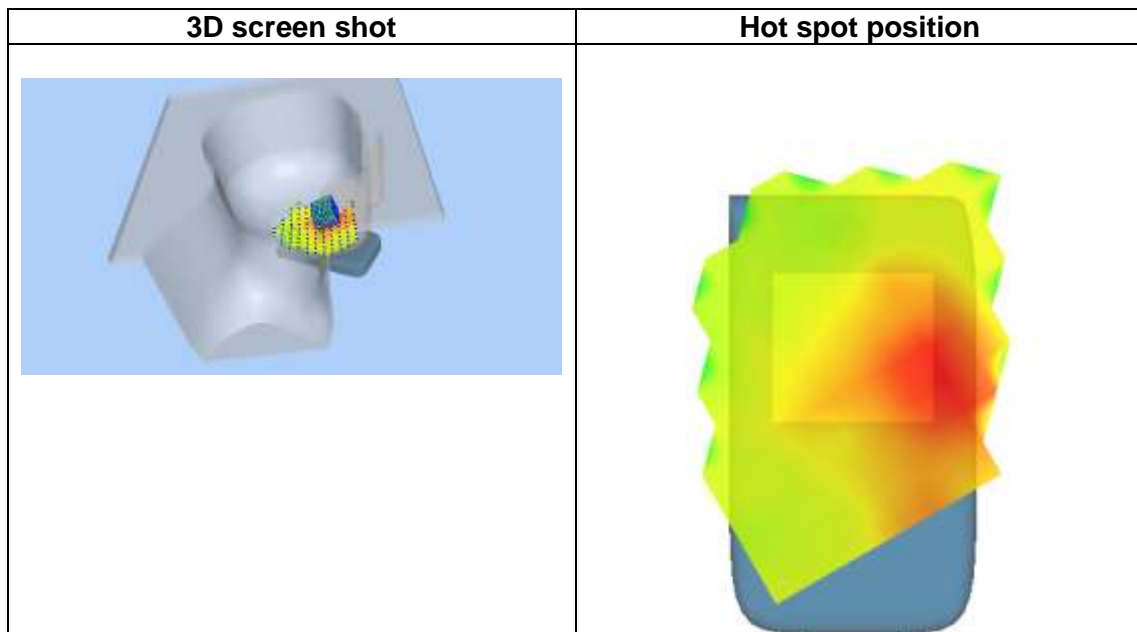
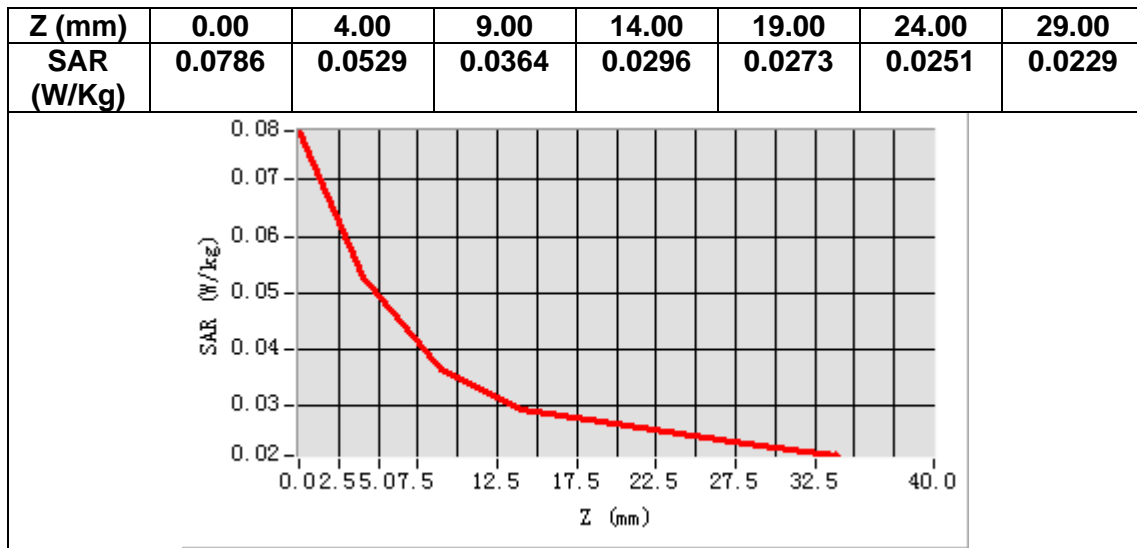
Frequency (MHz)	2592.990000
Relative permittivity (real part)	38.778290
Relative permittivity (imaginary part)	13.954137
Conductivity (S/m)	2.010163
Variation (%)	0.090000



Maximum location: X=-58.00, Y=-2.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.037793
SAR 1g (W/Kg)	0.052612



MEASUREMENT 36

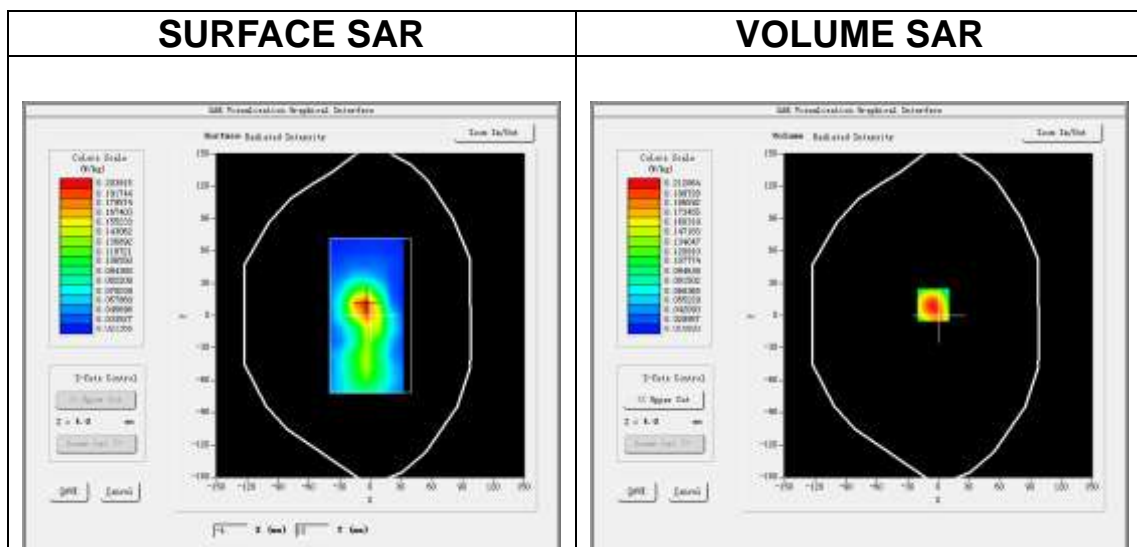
Date of measurement: 16/12/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>NR Band n41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>NR SA(Crest factor: 1.6)</u>

B. SAR Measurement Results

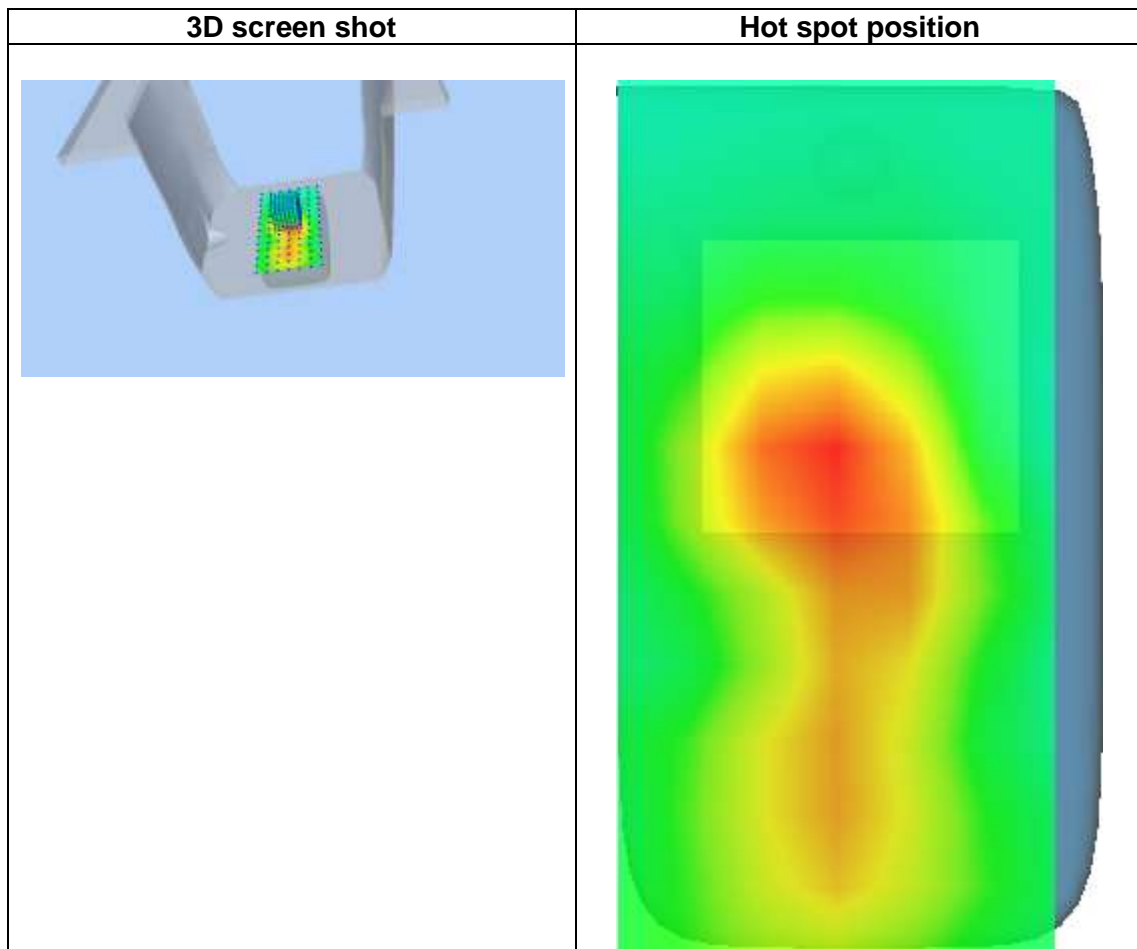
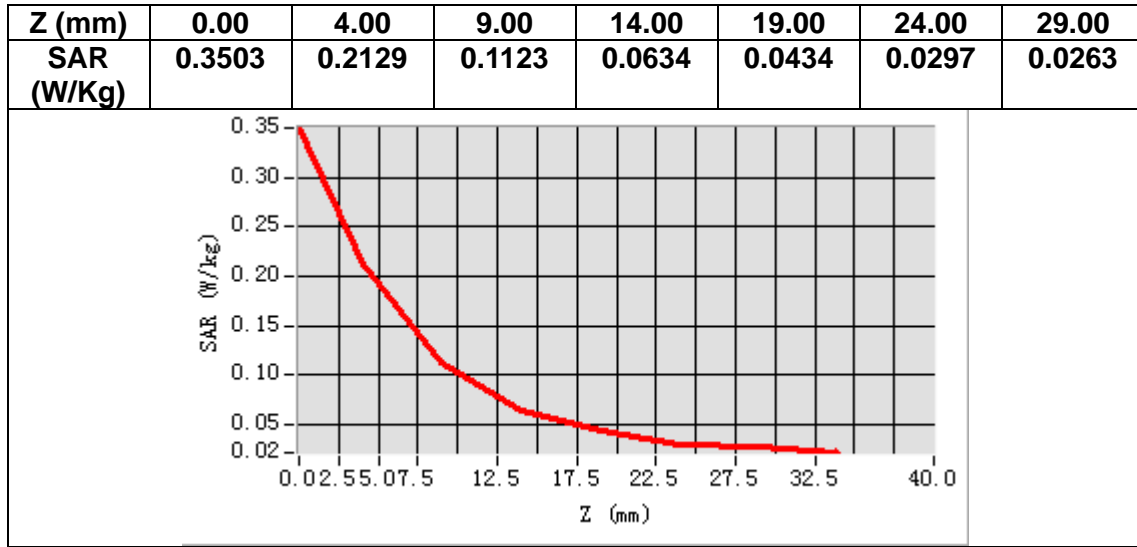
Frequency (MHz)	2592.990000
Relative permittivity (real part)	38.778290
Relative permittivity (imaginary part)	13.954137
Conductivity (S/m)	2.010163
Variation (%)	-0.730003



Maximum location: X=-5.00, Y=10.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.111988
SAR 1g (W/Kg)	0.201680



MEASUREMENT 37

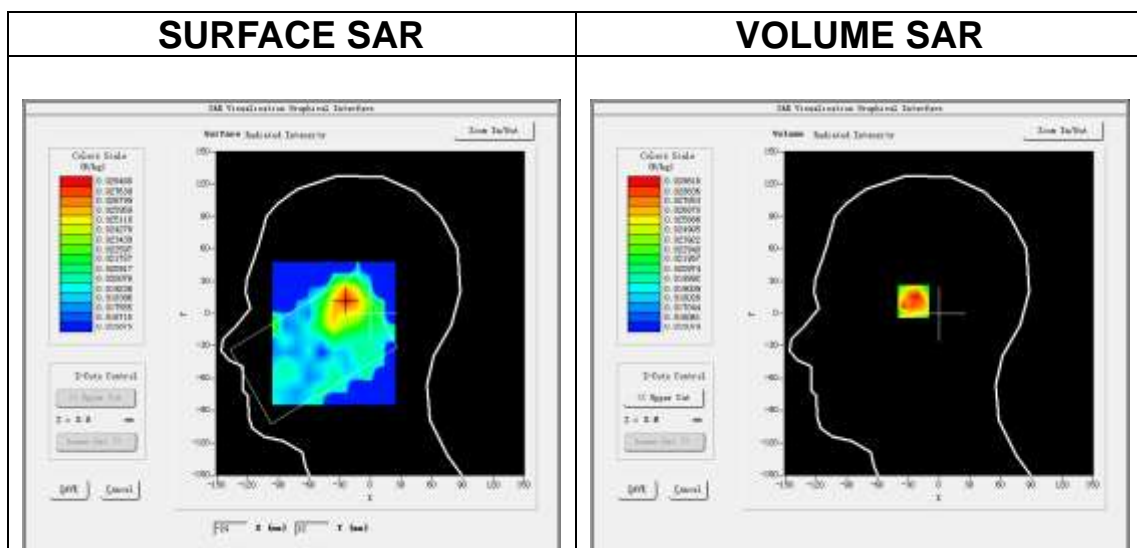
Date of measurement: 15/12/2020

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>Bluetooth</u>
Channels	<u>Middle</u>
Signal	<u>Bluetooth (Crest factor: 0.77)</u>

B. SAR Measurement Results

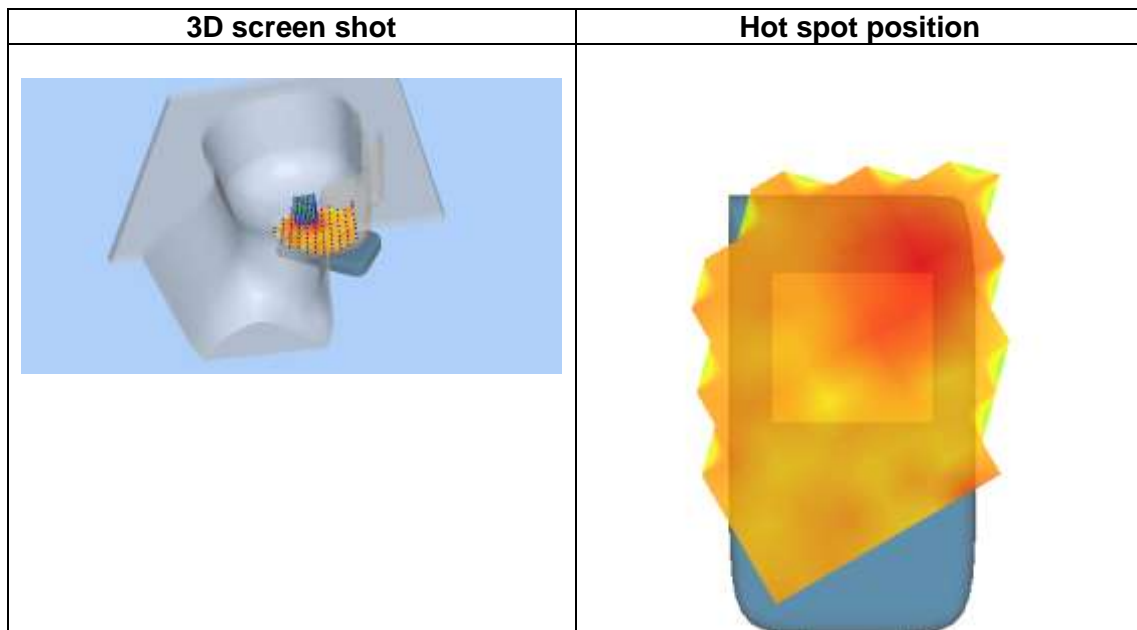
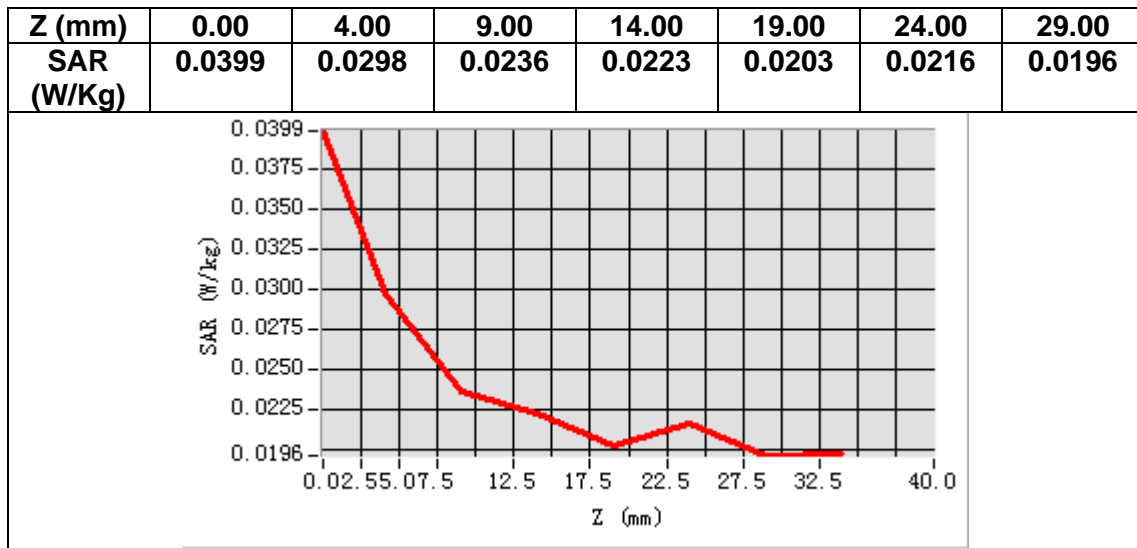
Frequency (MHz)	2441.000000
Relative permittivity (real part)	39.201886
Relative permittivity (imaginary part)	13.524857
Conductivity (S/m)	1.834121
Variation (%)	-2.290000



Maximum location: X=-24.00, Y=13.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.023672
SAR 1g (W/Kg)	0.028757



MEASUREMENT 38

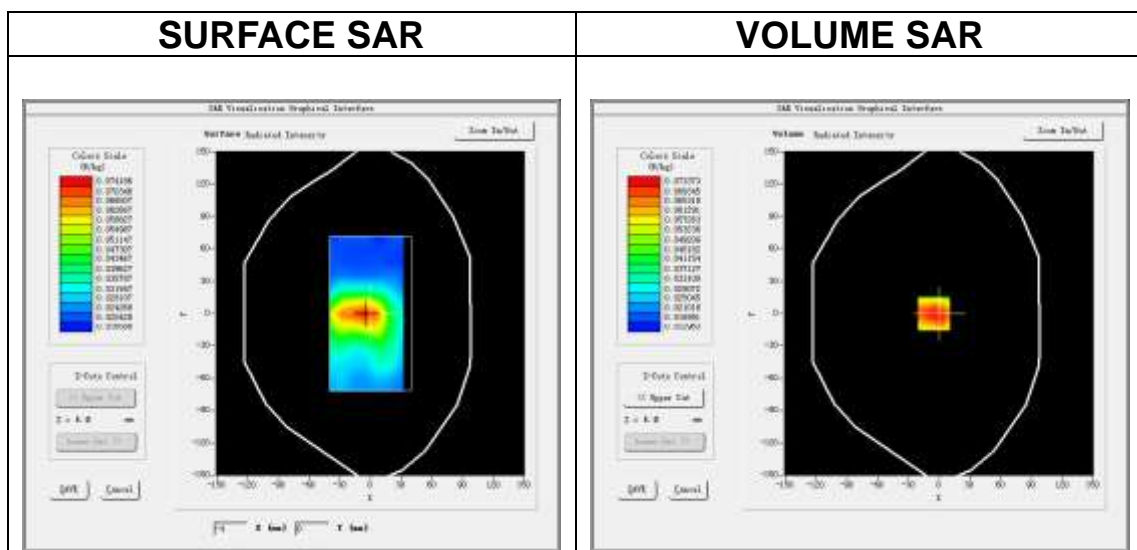
Date of measurement: 15/12/2020

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>Bluetooth</u>
Channels	<u>Middle</u>
Signal	<u>Bluetooth (Crest factor: 0.77)</u>

B. SAR Measurement Results

Frequency (MHz)	2441.000000
Relative permittivity (real part)	39.201886
Relative permittivity (imaginary part)	13.524857
Conductivity (S/m)	1.834121
Variation (%)	0.870000



Maximum location: X=-5.00, Y=0.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.047215
SAR 1g (W/Kg)	0.070186

