FCC SAR EVALUATION REPORT

In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013

Product Name :	Mobile Phone
Brand Name :	HOTWAV
Model Name :	Cyber 7
Family Model :	N/A
Report No. :	S21062900106001
FCC ID :	2AOKUCYBER7

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name	:	Shenzhen Tugao Intelligent Co., Ltd.
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Manufacturer's Name	:	Shenzhen Tugao Intelligent Co., Ltd.
Address	:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China

Product description

Product name	:	Mobile Phone
Brand Name	:	HOTWAV
Model and/or type reference	:	Cyber 7
Family Model	:	N/A
Standards	:	FCC 47 CFR Part 2(2.1093) ANSI/IEEE C95.1-1992 IEEE Std 1528-2013 Published RF exposure KDB procedures

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

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Date of Test

Date (s) of performance of tests	:	Jul. 07, 2021 ~ Jul. 31, 2021
Date of Issue	:	Sep. 15, 2021
Test Result	:	**Pass**

Prepared By (Test Engineer) : Jacob . chen

(Jacob Chen)

Approved By (Lab Manager) : Alex

(Alex Li)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Sep. 14, 2021	Jacob Chen

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1. General Information

1.1. RF exposure limits

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

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

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

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

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

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE

HEAD AND TRUNK LIMIT

1.6 W/kg

APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Cyber 7 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.450	0.478	0.564	N/A
1-g Body-Worn (Separation distance of 10mm)		0.690	0.277	0.606	N/A
1-g Hotspot (Separation distance of 10mm)		0.690	0.277	0.606	N/A
Max Simultaneous Tx	Head	1.014	0.928	1.014	0.747
	Body-Worn	1.296	0.967	1.296	0.839
	Hotspot	1.296	0.967	1.296	0.839

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Mobile Phone
Brand Name	HOTWAV
Model Name	Cyber 7
Family Model	N/A
FCC ID	2AOKUCYBER7
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery Information	DC 3.85V, 8280mAh, 31.878Wh
HW Version	TF919_MB_V1.1
SW Version	HOTWAV_Cyber 7_V8.0_20210910
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, CDMA Band BC0/BC1/BC10, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/13/17/18/19/25/26/41, SA NR Band N41, WLAN 2.4G/5G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), CDMA(QPSK), WCDMA(QPSK), LTE(QPSK/16QAM), DFT-s-OFDM:PI/2

	BPSK/QPSK/16-QAM/64QAM/256QAM CP-OFDM: QPSK/16-QAM/64QAM/256QAM , WLAN(DSSS/OFDM), Bluetooth(GFSK, π/4-DQPSK, 8DPSK), NFC(ASK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	CDMA Band BC0	824-849	869-894
	CDMA Band BC1	1850-1910	1930-1990
	CDMA Band BC10	816-824	861-869
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 18	815-830	860-875
	LTE Band 19	830-845	875-890
	LTE Band 25	1850-1915	1930-1995
	LTE Band 26	814-849	859-894
	LTE Band 41	2496-2690	
	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	

Power Class	4, tested with power level 5(GSM 850)
	1, tested with power level 0(GSM 1900)
	3, tested with power control “all up”(CDMA BC0)
	3, tested with power control “all up”(CDMA BC1)
	3, tested with power control “all up”(CDMA BC10)
	3, tested with power control “all 1”(WCDMA Band 2)
	3, tested with power control “all 1”(WCDMA Band 4)
	3, tested with power control “all 1”(WCDMA Band 5)
	3, tested with power control all Max.(LTE Band 2)
	3, tested with power control all Max.(LTE Band 4)
	3, tested with power control all Max.(LTE Band 5)
	3, tested with power control all Max.(LTE Band 7)
	3, tested with power control all Max.(LTE Band 12)
	3, tested with power control all Max.(LTE Band 13)
	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(LTE Band 18)
	3, tested with power control all Max.(LTE Band 19)
	3, tested with power control all Max.(LTE Band 25)
	3, tested with power control all Max.(LTE Band 26)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(NR Band N41)

1.4. Test specification(s)

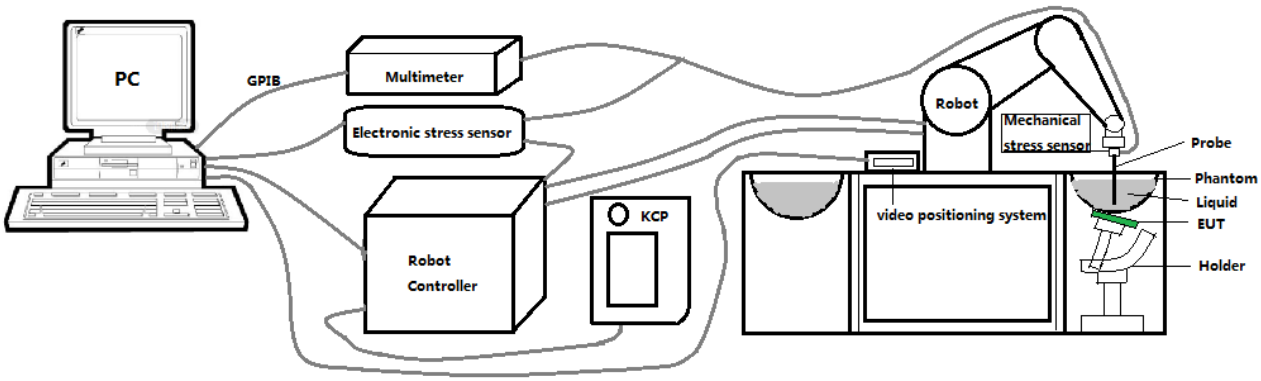
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225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

1.5. Ambient Condition

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

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



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

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

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

2.2. Robot

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

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

2.3. E-Field Probe

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

For the measurements the Specific Dosimetric E-Field Probe SN 08/16 EPGO287 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ±1 mm).
- Probe linearity: ±0.08 dB
- Axial isotropy: ±0.01 dB
- Hemispherical Isotropy: ±0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

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

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ±10%. The spherical isotropy shall be evaluated and within ±0.25dB. 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.

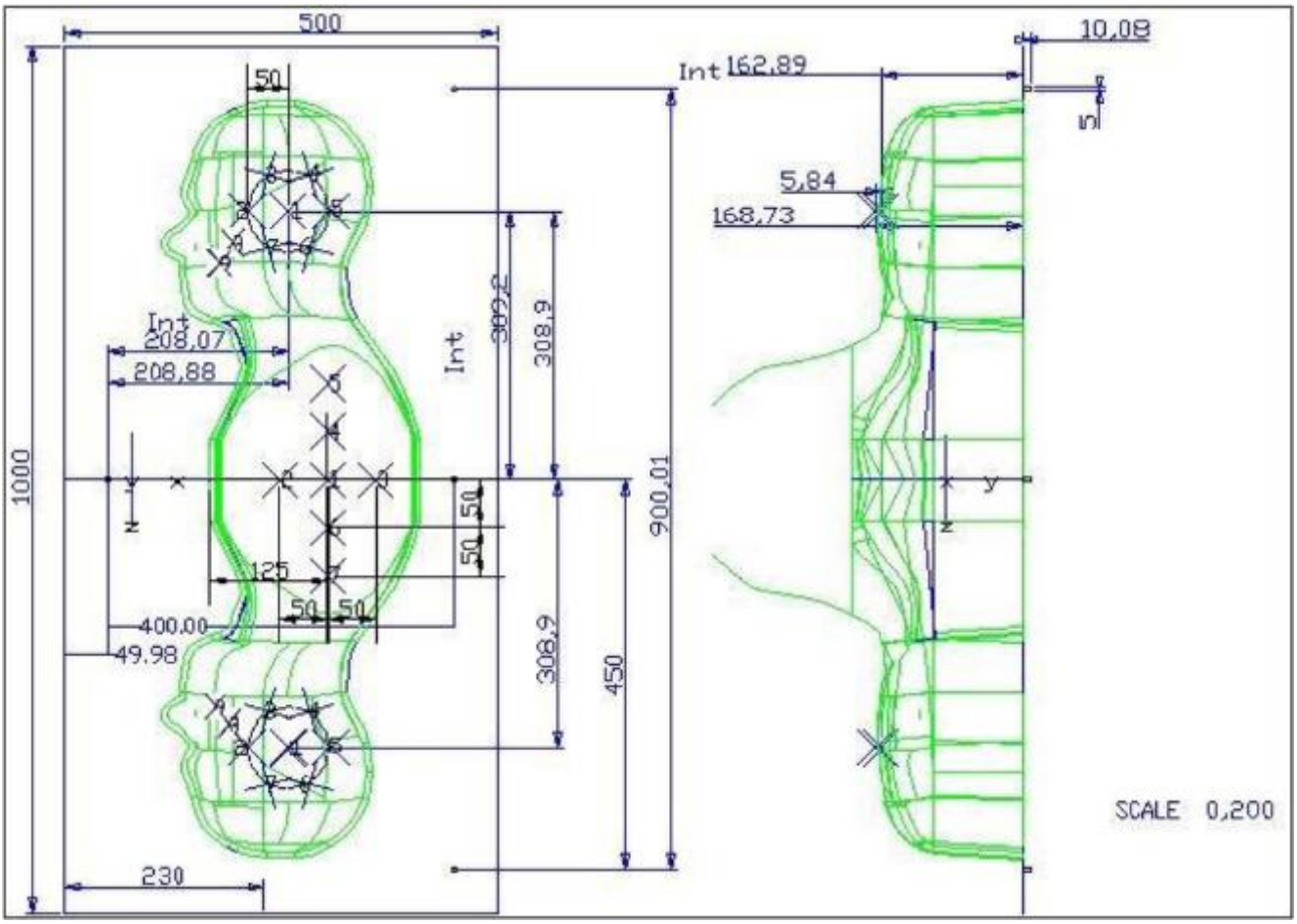
2.4. SAM phantoms

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

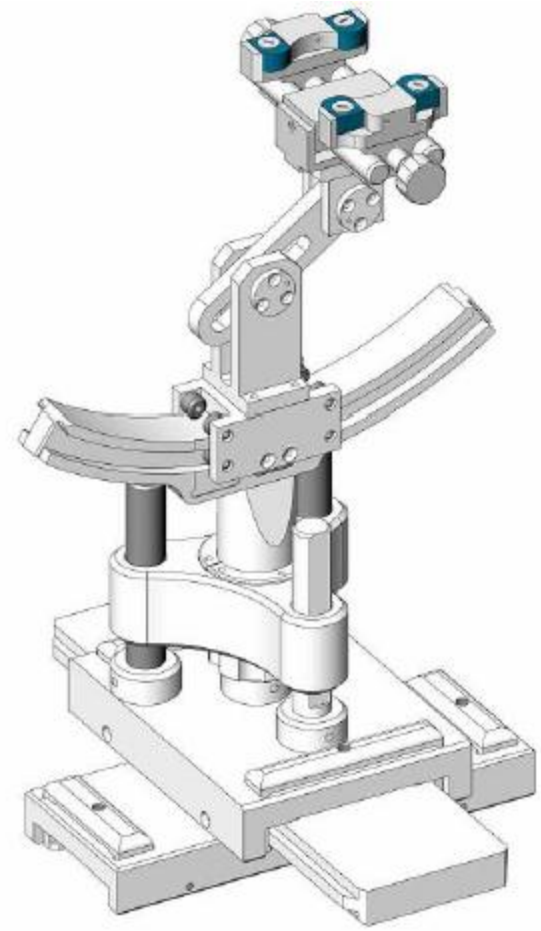


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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
☒	MVG	E FIELD PROBE	SSE2	SN 08/16 EPGO287	Mar. 01, 2021	Feb. 28, 2022
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
☒	R&S	Universal radio communication tester	CMU200	117858	Jul. 13, 2020	Jun. 12, 2021
					Jul. 01, 2021	Jun. 30, 2022
☒	R&S	Wideband radio communication tester	CMW500	103917	Jul. 13, 2020	Jun. 12, 2021
					Jul. 01, 2021	Jun. 30, 2022
☒	HP	Network Analyzer	8753D	3410J01136	Jul. 13, 2020	Jun. 12, 2021

					Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 13, 2020	Jun. 12, 2021
					Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	Power meter	E4419B	MY45102538	Jul. 13, 2020	Jun. 12, 2021
					Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	Power sensor	E9301A	MY41495644	Jul. 13, 2020	Jun. 12, 2021
					Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	Power sensor	E9301A	US39212148	Jul. 13, 2020	Jun. 12, 2021
					Jul. 01, 2021	Jun. 30, 2022
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 17, 2020	Jul. 16, 2023
☒	Anritsu	Radio Communication Analyzer	MT8821C	SN 6262186364	Oct. 13, 2020	Oct. 12, 2021
☒	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 Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.

(d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

(a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.

(b) Place the EUT in the positions as Appendix A demonstrates.

(c) Set scan area, grid size and other setting on the OPENSAR software.

(d) Measure SAR results for the highest power channel on each testing position.

(e) Find out the largest SAR result on these testing positions of each band.

(f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

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

(a) Power reference measurement

(b) Area scan

(c) Zoom scan

(d) Power drift measurement

3.1. Power Reference

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

3.2. Area scan & Zoom scan

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

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

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

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

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

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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 <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

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 ±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									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

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.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

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 of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within ±5% of the target values.

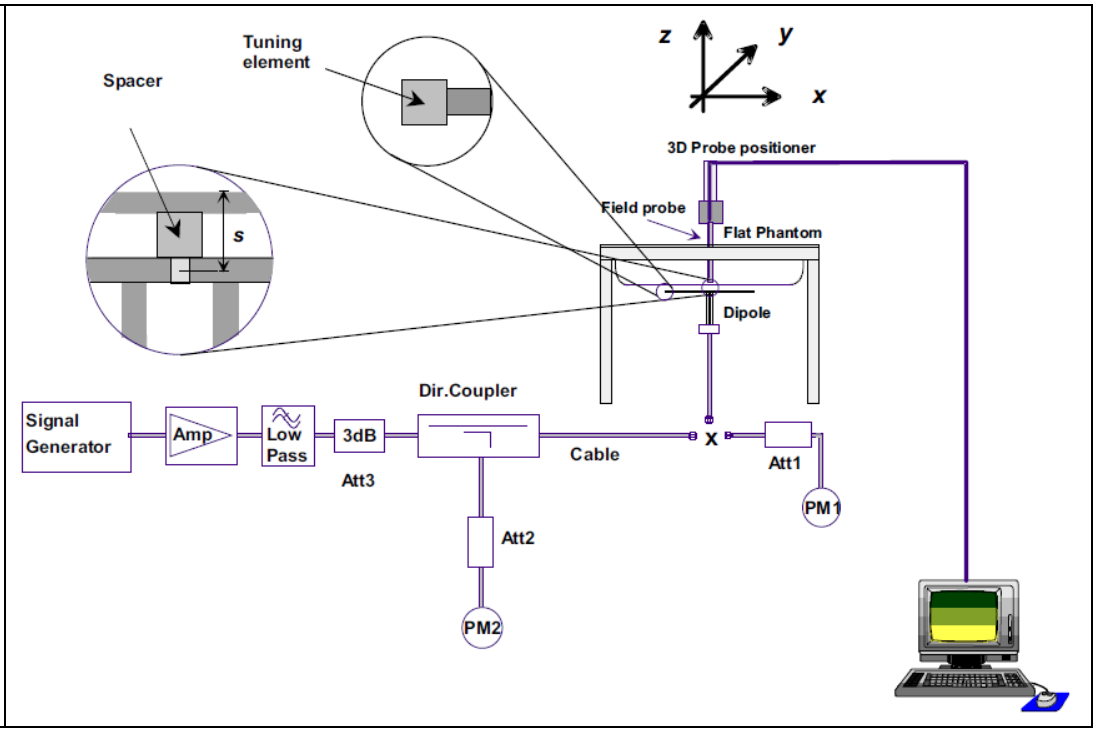
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		εr (±5%)	σ (S/m) (±5%)	εr	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93）	40.98	0.90	21.5 °C	Jul. 07, 2021
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	42.79	0.92	21.5 °C	Jul. 12, 2021
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.72	1.38	21.7 °C	Jul. 15, 2021
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.44	1.45	21.5 °C	Jul. 19, 2021
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.40	1.84	21.5 °C	Jul. 09, 2021
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.62	2.04	21.4 °C	Jul. 17, 2021
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.65	4.71	21.5 °C	Jul. 21, 2021
Head 5600	5600	35.50 (33.73~37.28)	5.07 (4.82~5.32)	36.41	5.06	21.6 °C	Jul. 31, 2021
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.98	5.28	21.9 °C	Jul. 26, 2021

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 ±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) (±10%)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)		
750MHz	8.53 (7.68~9.38)	5.56 (5.01~6.11)	8.52	5.53	21.5 °C	Jul. 07, 2021
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	9.51	6.07	21.5 °C	Jul. 12, 2021
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	38.10	20.01	21.7 °C	Jul. 15, 2021
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	38.95	20.63	21.5 °C	Jul. 19, 2021
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	53.71	24.09	21.5 °C	Jul. 09, 2021
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	55.65	24.55	21.4 °C	Jul. 17, 2021
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	151.34	56.22	21.5 °C	Jul. 21, 2021
5600MHz	174.92 (157.43~192.41)	58.63 (52.77~64.49)	174.65	56.58	21.6 °C	Jul. 31, 2021
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	171.15	59.53	21.9 °C	Jul. 26, 2021

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

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

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

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Ear and handset reference point

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

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

6.2. Definition of the cheek position

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

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

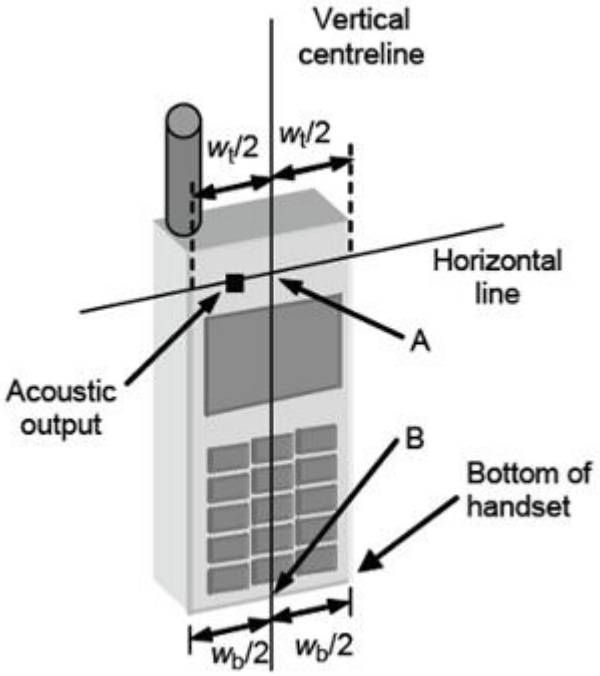


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case

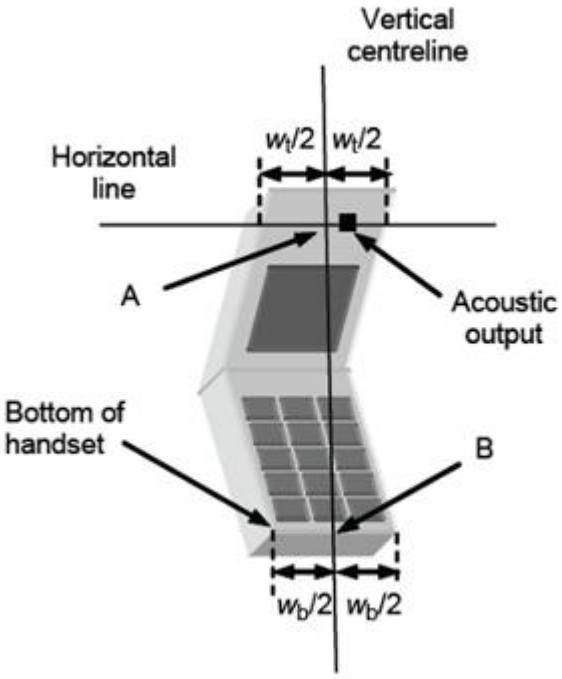


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

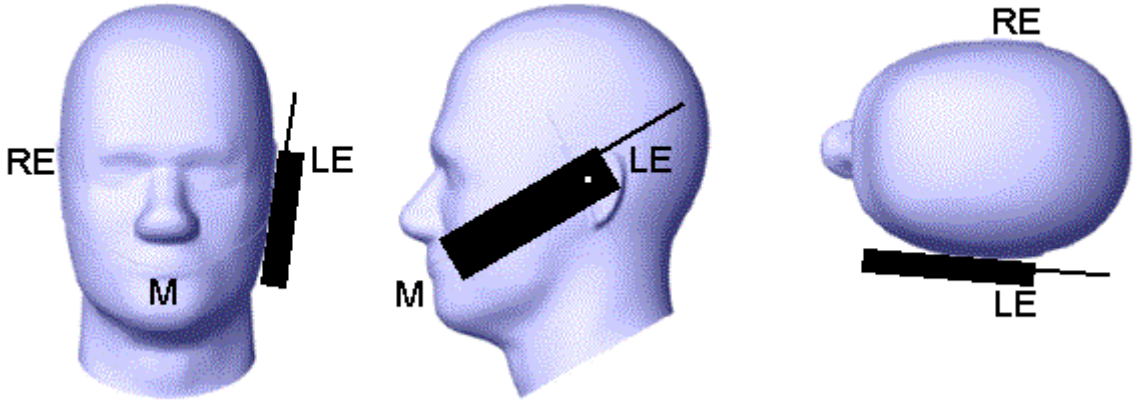


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

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

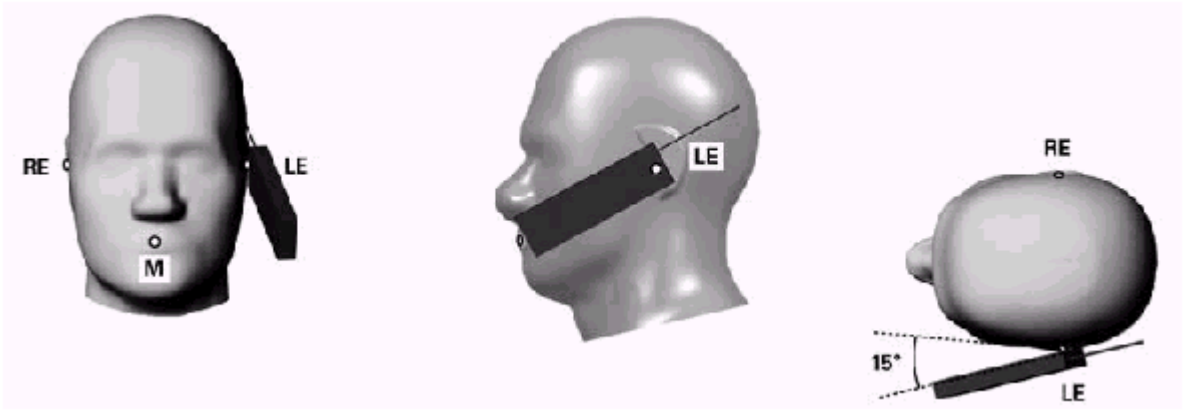


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

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

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

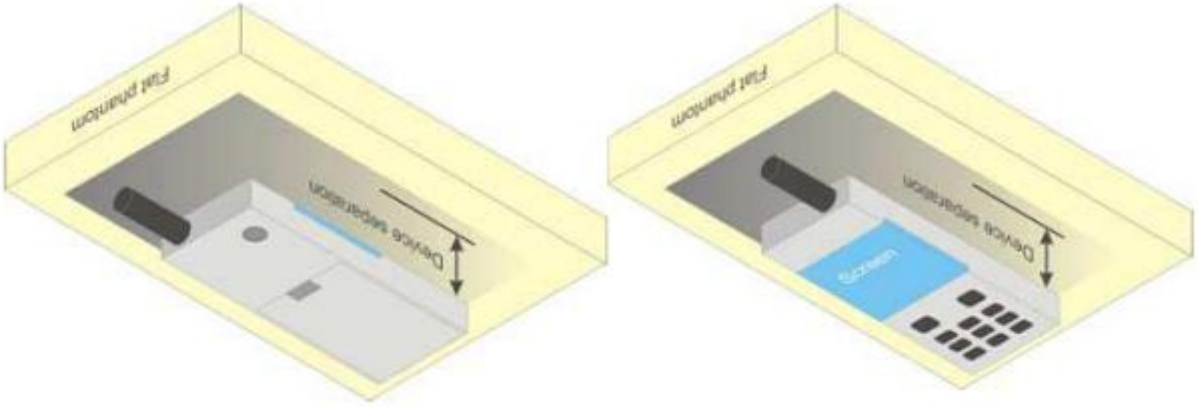


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 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 form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM (GMSK)	32.50	32.34	32.31	32.27	23.47	23.31	23.28	23.24
GPRS(GMSK, 1 TS)	33.00	32.54	32.51	32.50	23.97	23.51	23.48	23.47
GPRS(GMSK, 2 TS)	32.00	31.71	31.67	31.67	25.98	25.69	25.65	25.65
GPRS(GMSK, 3 TS)	30.00	29.92	29.88	29.90	25.74	25.66	25.62	25.64
GPRS(GMSK, 4 TS)	29.00	28.80	28.76	28.77	25.99	25.79	25.75	25.76
EDGE(GMSK, 1 TS)	27.00	26.65	26.49	26.60	17.97	17.62	17.46	17.57
EDGE(GMSK, 2 TS)	25.50	25.12	25.13	25.10	19.48	19.10	19.11	19.08
EDGE(GMSK, 3 TS)	24.00	23.24	23.46	23.55	19.74	18.98	19.20	19.29
EDGE(GMSK, 4 TS)	22.00	21.94	21.79	21.89	18.99	18.93	18.78	18.88
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880.0	1909.8	(dBm)	1850.2	1880.0	1909.8
GSM (GMSK)	30.00	29.59	29.69	29.67	20.97	20.56	20.66	20.64
GPRS(GMSK, 1 TS)	30.00	29.61	29.65	29.64	20.97	20.58	20.62	20.61
GPRS(GMSK, 2 TS)	30.00	29.59	29.64	29.62	23.98	23.57	23.62	23.60
GPRS(GMSK, 3 TS)	28.00	27.36	27.50	27.29	23.74	23.10	23.24	23.03
GPRS(GMSK, 4 TS)	26.50	26.23	26.40	26.17	23.49	23.22	23.39	23.16
EDGE(GMSK, 1 TS)	26.00	25.45	25.74	25.53	16.97	16.42	16.71	16.50
EDGE(GMSK, 2 TS)	25.00	24.60	24.23	24.39	18.98	18.58	18.21	18.37
EDGE(GMSK, 3 TS)	23.00	23.00	21.90	21.44	18.74	18.74	17.64	17.18
EDGE(GMSK, 4 TS)	21.50	21.15	20.75	20.04	18.49	18.14	17.74	17.03

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. CDMA Conducted Power

Band	CDMA Band BC0			
Tx Channel	Tune-up	1013	384	777
Frequency (MHz)		824.7	836.52	848.31

1xRTT(RC1,SO55)	24.00	23.03	22.88	22.84
1xRTT(RC3,SO55)	24.00	23.01	23.42	23.31
1xRTT(RC3,SO32(+F-SCH))	24.00	23.21	23.52	23.12
1xEV-Do Rel.0	24.00	22.21	23.42	23.31
1xEV-Do Rev.A	24.00	23.07	22.24	23.24
Band	CDMA Band BC1			
Tx Channel	Tune-up	25	600	1175
Frequency (MHz)		1851.25	1880	1908.75
1xRTT(RC1,SO55)	24.00	22.87	23.00	22.91
1xRTT(RC3,SO55)	24.00	23.77	23.75	23.71
1xRTT(RC3,SO32(+F-SCH))	24.00	23.81	23.21	23.12
1xEV-Do Rel.0	24.00	23.74	23.92	23.76
1xEV-Do Rev.A	24.00	23.82	23.18	23.01
Band	CDMA Band BC10			
Tx Channel	Tune-up	450	560	670
Frequency (MHz)		817.25	820	822.75
1xRTT(RC1,SO55)	24.00	23.03	22.92	22.92
1xRTT(RC3,SO55)	24.00	23.47	23.72	23.41
1xRTT(RC3,SO32(+F-SCH))	24.00	23.42	23.21	23.11
1xEV-Do Rel.0	24.00	23.34	23.29	23.31
1xEV-Do Rev.A	24.00	23.32	23.17	23.01

7.3. WCDMA Conducted Power

Band	WCDMA Band 2			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC 12.2Kbps	24.00	23.25	23.47	23.54
HSDPA Subtest-1	23.00	22.48	22.69	22.75
HSDPA Subtest-2	22.50	21.86	22.21	22.28
HSDPA Subtest-3	21.50	20.72	21.33	21.05
HSDPA Subtest-4	21.50	21.12	21.21	21.40
HSUPA Subtest-1	23.00	21.12	22.47	22.55
HSUPA Subtest-2	23.00	22.34	22.53	22.55
HSUPA Subtest-3	21.50	20.33	21.40	21.37
HSUPA Subtest-4	23.00	22.41	22.61	22.70
HSUPA Subtest-5	22.50	21.13	21.98	22.03
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6

RMC 12.2Kbps	23.50	23.29	23.03	23.01
HSDPA Subtest-1	22.50	22.36	22.10	22.07
HSDPA Subtest-2	22.00	21.80	21.69	21.73
HSDPA Subtest-3	21.00	20.79	20.76	20.28
HSDPA Subtest-4	21.00	21.00	20.73	20.64
HSUPA Subtest-1	22.00	21.42	21.90	21.87
HSUPA Subtest-2	22.50	22.21	22.04	22.00
HSUPA Subtest-3	21.00	20.64	20.67	20.82
HSUPA Subtest-4	22.50	22.38	22.11	22.08
HSUPA Subtest-5	21.50	20.73	21.13	21.22
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC 12.2Kbps	23.50	23.24	23.12	23.18
HSDPA Subtest-1	22.50	22.25	22.14	22.20
HSDPA Subtest-2	22.00	21.88	21.73	21.91
HSDPA Subtest-3	21.00	20.89	20.74	20.74
HSDPA Subtest-4	21.00	20.48	20.78	20.57
HSUPA Subtest-1	22.00	21.43	21.99	21.98
HSUPA Subtest-2	22.50	22.11	22.07	22.08
HSUPA Subtest-3	21.00	20.61	20.78	20.68
HSUPA Subtest-4	22.50	22.27	22.14	22.18
HSUPA Subtest-5	21.50	20.78	21.26	21.46

7.4. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	22.24	23.45	23.59
			1	2	24.00	23.29	23.43	23.61
			1	5	24.00	23.24	23.44	23.59
			3	0	23.50	23.14	23.48	23.41
			3	1	23.50	23.14	23.46	23.41
			3	2	23.50	23.13	23.48	23.37
			6	0	22.50	22.26	22.43	22.40
		16QAM	1	0	23.00	22.43	22.37	22.61
			1	2	23.00	22.44	22.39	22.63
			1	5	23.00	22.48	22.37	22.60

			3	0	23.00	22.43	22.57	22.61
			3	1	23.00	22.44	22.58	22.61
			3	2	23.00	22.44	22.58	22.61
			6	0	22.00	21.38	21.55	21.53
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	23.50	23.20	23.41	22.91
			1	7	23.50	23.24	23.43	22.98
			1	14	23.50	23.22	23.31	23.00
			8	0	22.50	22.21	22.32	22.43
			8	4	22.50	22.22	22.35	22.41
			8	7	22.50	22.20	22.32	22.37
			15	0	22.50	22.25	22.42	22.45
		16QAM	1	0	23.00	22.65	22.47	21.87
			1	7	23.00	22.66	22.42	21.87
			1	14	23.00	22.67	22.27	21.85
			8	0	21.50	21.27	21.46	21.48
			8	4	21.50	21.27	21.45	21.45
			8	7	21.50	21.25	21.43	21.41
			15	0	21.50	21.31	21.39	21.49
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	23.50	22.88	23.04	22.99
			1	12	23.50	23.03	23.05	23.02
			1	24	23.50	22.93	23.02	23.03
			12	0	23.00	22.27	22.48	22.51
			12	6	23.00	22.26	22.44	22.40
			12	11	23.00	22.27	22.40	22.29
			25	0	22.50	22.32	22.48	22.46
		16QAM	1	0	22.50	22.26	22.31	22.38
			1	12	22.50	22.27	22.34	22.37
			1	24	22.50	22.28	22.28	22.40
			12	0	22.00	21.25	21.54	21.50
			12	6	22.00	21.22	21.49	21.42
			12	11	22.00	21.21	21.43	21.31
			25	0	21.50	21.32	21.48	21.45

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	23.50	22.81	22.98	22.96
			1	24	23.50	22.86	23.03	22.96
			1	49	23.50	22.85	22.97	23.00
			25	0	23.00	22.28	22.50	22.46
			25	12	23.00	22.32	22.48	22.46
			25	24	23.00	22.37	22.47	22.31
			50	0	22.50	22.38	22.48	22.39
		16QAM	1	0	22.50	21.93	21.89	22.28
			1	24	22.50	22.00	21.92	22.31
			1	49	22.50	21.98	21.89	22.35
			25	0	22.00	21.31	21.54	21.47
			25	12	22.00	21.36	21.48	21.45
			25	24	22.00	21.37	21.45	21.32
			50	0	21.50	21.38	21.44	21.37

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	23.50	22.86	22.77	22.90
			1	37	23.50	23.03	22.82	22.90
			1	74	23.50	23.00	22.74	22.92
			36	0	22.50	22.25	22.44	22.32
			36	18	22.50	22.29	22.41	22.38
			36	37	22.50	22.33	22.39	22.27
			75	0	22.50	22.32	22.47	22.31
		16QAM	1	0	22.50	21.95	22.09	22.29
			1	37	22.50	22.08	22.20	22.32
			1	74	22.50	22.08	22.07	22.30
			36	0	21.50	21.34	21.43	21.38
			36	18	21.50	21.39	21.41	21.43
			36	37	21.50	21.43	21.36	21.28
			75	0	21.50	21.31	21.48	21.34

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	23.00	22.67	22.93	22.95
			1	49	23.00	22.74	23.00	22.98
			1	99	23.00	22.75	22.86	22.96
			50	0	23.00	22.36	22.56	22.42
			50	24	23.00	22.39	22.48	22.42
			50	49	23.00	22.47	22.44	22.26
			100	0	22.50	22.39	22.46	22.33
		16QAM	1	0	22.50	22.24	22.14	22.16
			1	49	22.50	22.30	22.24	22.17
			1	99	22.50	22.30	22.10	22.16
			50	0	22.00	21.38	21.52	21.45
			50	24	22.00	21.42	21.45	21.45
			50	49	22.00	21.50	21.39	21.30
			100	0	21.50	21.39	21.42	21.35

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.00	22.89	22.40	22.38
			1	2	23.00	22.91	22.39	22.36
			1	5	23.00	22.88	22.41	22.36
			3	0	23.50	23.15	22.99	22.93
			3	1	23.50	23.17	23.02	22.92
			3	2	23.50	23.14	22.96	22.93
			6	0	22.50	22.19	21.94	21.90
		16QAM	1	0	22.00	21.93	21.69	21.30
			1	2	22.00	21.91	21.63	21.31
			1	5	22.00	21.93	21.68	21.29
			3	0	22.50	22.44	22.14	22.03
			3	1	22.50	22.45	22.15	22.04
			3	2	22.50	22.42	22.12	22.05
			6	0	21.50	21.36	21.08	21.02
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.00	22.69	22.44	22.42
			1	7	23.00	22.77	22.48	22.41
			1	14	23.00	22.76	22.45	22.36

			8	0	22.50	22.19	21.92	21.80
			8	4	22.50	22.18	21.95	21.80
			8	7	22.50	22.19	21.91	21.83
			15	0	22.50	22.24	21.90	21.87
		16QAM	1	0	22.00	21.88	21.36	21.74
			1	7	22.00	21.95	21.38	21.83
			1	14	22.00	21.88	21.32	21.78
			8	0	21.50	21.22	20.93	20.85
			8	4	21.50	21.25	20.92	20.84
			8	7	21.50	21.22	20.87	20.86
			15	0	21.50	21.19	20.96	20.88
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	23.00	22.80	22.45	22.42
			1	12	23.00	22.86	22.49	22.44
			1	24	23.00	22.77	22.43	22.41
			12	0	22.50	22.23	21.98	21.88
			12	6	22.50	22.23	21.96	21.86
			12	11	22.50	22.20	21.98	21.77
			25	0	22.50	22.21	21.96	21.88
		16QAM	1	0	22.50	22.19	21.86	21.70
			1	12	22.50	22.20	21.87	21.71
			1	24	22.50	22.09	21.82	21.74
			12	0	21.50	21.21	20.84	20.93
			12	6	21.50	21.15	20.86	20.89
			12	11	21.50	21.13	20.84	20.79
			25	0	21.50	21.18	21.01	20.84
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	23.00	22.77	22.44	22.28
			1	24	23.00	22.74	22.50	22.32
			1	49	23.00	22.69	22.40	22.33
			25	0	22.50	22.18	21.97	21.81
			25	12	22.50	22.17	21.94	21.80
			25	24	22.50	22.11	22.03	21.80
			50	0	22.50	22.17	21.98	21.84

		16QAM	1	0	22.00	21.62	21.85	21.44
			1	24	22.00	21.60	21.88	21.49
			1	49	22.00	21.52	21.79	21.53
			25	0	21.50	21.20	21.00	20.84
			25	12	21.50	21.16	20.95	20.86
			25	24	21.50	21.10	21.06	20.79
			50	0	21.50	21.11	20.99	20.83
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	23.00	22.52	22.43	22.22
			1	37	23.00	22.44	22.44	22.23
			1	74	23.00	22.33	22.25	22.22
			36	0	22.50	22.15	21.92	21.80
			36	18	22.50	22.06	21.93	21.82
			36	37	22.50	21.95	21.94	21.74
			75	0	22.50	22.06	21.96	21.81
		16QAM	1	0	22.50	22.10	21.62	21.45
			1	37	22.50	22.01	21.66	21.55
			1	74	22.50	21.87	21.47	21.48
			36	0	21.50	21.18	21.03	20.73
			36	18	21.50	21.12	21.04	20.82
			36	37	21.50	21.01	21.03	20.74
			75	0	21.50	21.03	20.91	20.85
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	23.00	22.66	22.44	22.38
			1	49	23.00	22.65	22.44	22.35
			1	99	23.00	22.47	22.35	22.32
			50	0	22.50	22.21	22.08	21.70
			50	24	22.50	22.09	21.97	21.92
			50	49	22.50	21.91	22.11	21.84
			100	0	22.50	22.07	22.07	21.79
		16QAM	1	0	22.00	21.90	21.86	21.62
			1	49	22.00	21.84	21.86	21.58
			1	99	22.00	21.66	21.75	21.58
			50	0	21.50	21.22	21.09	20.65

			50	24	21.50	21.13	20.99	20.87
			50	49	21.50	20.91	21.12	20.80
			100	0	21.50	21.03	21.06	20.77

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	23.50	23.02	22.26	22.23
			1	2	23.50	23.06	22.23	22.29
			1	5	23.50	23.09	22.24	22.26
			3	0	23.00	22.83	22.85	22.82
			3	1	23.00	22.81	22.86	22.83
			3	2	23.00	22.78	22.82	22.83
			6	0	22.00	21.83	21.82	21.85
		16QAM	1	0	22.00	21.72	21.53	21.20
			1	2	22.00	21.73	21.49	21.20
			1	5	22.00	21.59	21.55	21.20
			3	0	22.50	22.07	21.98	21.96
			3	1	22.50	22.09	21.98	21.95
			3	2	22.50	22.07	21.96	21.97
			6	0	21.50	21.05	20.95	20.97

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	22.50	22.39	22.28	22.26
			1	7	22.50	22.38	22.28	22.35
			1	14	22.50	22.36	22.26	22.30
			8	0	22.00	21.87	21.70	21.75
			8	4	22.00	21.84	21.71	21.77
			8	7	22.00	21.82	21.74	21.75
			15	0	22.00	21.87	21.79	21.79
		16QAM	1	0	22.00	21.80	21.55	21.19
			1	7	22.00	21.85	21.54	21.25
			1	14	22.00	21.79	21.48	21.20
			8	0	21.00	20.90	20.79	20.77
			8	4	21.00	20.90	20.80	20.82
			8	7	21.00	20.88	20.77	20.78
			15	0	21.00	20.92	20.75	20.84

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	1	0	22.50	22.37	22.40	22.26
			1	12	22.50	22.37	22.40	22.27
			1	24	22.50	22.35	22.32	22.27
			12	0	22.00	21.86	21.88	21.88
			12	6	22.00	21.86	21.81	21.78
			12	11	22.00	21.84	21.73	21.66
			25	0	22.00	21.89	21.78	21.76
		16QAM	1	0	22.00	21.70	21.85	21.71
			1	12	22.00	21.72	21.80	21.81
			1	24	22.00	21.71	21.75	21.77
			12	0	21.00	20.91	20.83	20.78
			12	6	21.00	20.89	20.79	20.72
			12	11	21.00	20.86	20.72	20.61
			25	0	21.00	20.84	20.77	20.80

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	22.50	22.38	22.35	22.27
			1	24	22.50	22.40	22.33	22.32
			1	49	22.50	22.42	22.25	22.33
			25	0	22.00	21.82	21.84	21.77
			25	12	22.00	21.86	21.80	21.77
			25	24	22.00	21.93	21.76	21.66
			50	0	22.00	21.92	21.88	21.73
		16QAM	1	0	22.00	21.81	21.56	21.15
			1	24	22.00	21.86	21.53	21.18
			1	49	22.00	21.81	21.44	21.21
			25	0	21.00	20.88	20.89	20.80
			25	12	21.00	20.90	20.81	20.78
			25	24	21.00	20.99	20.80	20.66
			50	0	21.00	20.92	20.87	20.70

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB	RB		20775/2502.5	21100/2535	21425/2567.5

			Size	Offset				
LTE Band 7	5MHz	QPSK	1	0	23.00	22.91	22.46	22.36
			1	12	23.00	22.83	22.41	22.34
			1	24	23.00	22.89	22.43	22.37
			12	0	22.00	21.85	21.93	21.80
			12	6	22.00	21.79	21.88	21.76
			12	11	22.00	21.88	21.82	21.77
			25	0	22.00	21.88	21.88	21.80
		16QAM	1	0	22.00	21.88	21.89	21.63
			1	12	22.00	21.83	21.82	21.63
			1	24	22.00	21.93	21.86	21.65
			12	0	21.50	20.99	20.85	20.84
			12	6	21.50	20.99	20.78	20.82
			12	11	21.50	21.02	20.75	20.81
			25	0	21.50	21.01	20.88	20.77

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	22.50	22.39	22.45	22.42
			1	24	22.50	22.40	22.46	22.42
			1	49	22.50	22.49	22.48	22.41
			25	0	22.00	21.83	21.94	21.91
			25	12	22.00	21.87	21.93	21.83
			25	24	22.00	21.95	21.93	21.84
			50	0	22.00	21.94	21.99	21.88
		16QAM	1	0	22.00	21.58	21.36	21.74
			1	24	22.00	21.58	21.31	21.74
			1	49	22.00	21.64	21.35	21.75
			25	0	21.50	20.99	20.93	20.91
			25	12	21.50	21.06	20.91	20.86
			25	24	21.50	21.13	20.93	20.87
			50	0	21.50	21.09	20.90	20.83

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	23.00	22.41	22.30	22.36
			1	37	23.00	22.52	22.31	22.39
			1	74	23.00	22.47	22.29	22.33

			36	0	22.00	21.79	21.94	21.90
			36	18	22.00	21.88	21.91	21.81
			36	37	22.00	21.93	21.91	21.82
			75	0	22.00	21.89	21.96	21.85
		16QAM	1	0	22.00	21.55	21.57	21.73
			1	37	22.00	21.65	21.59	21.81
			1	74	22.00	21.60	21.54	21.68
			36	0	21.50	21.01	20.93	20.91
			36	18	21.50	21.10	20.88	20.86
			36	37	21.50	21.19	20.92	20.87
			75	0	21.00	20.99	20.97	20.84

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	22.50	22.27	22.45	22.43
			1	49	22.50	22.35	22.44	22.43
			1	99	22.50	22.32	22.42	22.41
			50	0	22.50	21.79	22.07	22.02
			50	24	22.50	21.92	21.96	21.89
			50	49	22.50	22.00	22.01	21.82
			100	0	22.50	21.89	22.03	21.88
		16QAM	1	0	22.00	21.81	21.69	21.64
			1	49	22.00	21.89	21.71	21.65
			1	99	22.00	21.89	21.69	21.60
			50	0	21.50	20.99	21.03	21.03
			50	24	21.50	21.12	20.94	20.90
			50	49	21.50	21.21	20.96	20.82
			100	0	21.50	21.07	21.00	20.87

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	23.50	23.04	22.99	22.92
			1	2	23.50	23.16	22.97	22.85
			1	5	23.50	23.17	22.96	22.92
			3	0	23.50	22.94	23.06	22.92
			3	1	23.50	22.97	23.08	22.92
			3	2	23.50	23.00	23.06	22.92

			6	0	22.00	21.99	22.00	21.90
		16QAM	1	0	22.50	22.22	22.25	21.82
			1	2	22.50	22.25	22.23	21.89
			1	5	22.50	22.23	22.26	21.80
			3	0	22.50	22.20	22.22	22.03
			3	1	22.50	22.22	22.21	22.07
			3	2	22.50	22.21	22.17	22.06
			6	0	21.50	21.17	21.18	21.02
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	23.50	22.98	23.00	22.97
			1	7	23.50	23.07	23.07	22.99
			1	14	23.50	22.98	23.01	22.92
			8	0	22.00	21.99	21.97	21.93
			8	4	22.00	21.99	22.00	21.88
			8	7	22.00	21.99	22.00	21.86
			15	0	22.50	22.01	21.98	21.89
		16QAM	1	0	23.00	22.58	22.26	21.90
			1	7	23.00	22.54	22.28	21.93
			1	14	23.00	22.42	22.23	21.77
			8	0	21.50	21.01	20.99	20.92
			8	4	21.50	21.03	20.98	20.87
			8	7	21.50	21.05	20.96	20.86
			15	0	21.50	21.04	20.94	20.96
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 12	5MHz	QPSK	1	0	23.50	23.11	23.13	23.04
			1	12	23.50	23.08	23.07	23.01
			1	24	23.50	23.14	23.05	22.95
			12	0	22.50	22.02	22.06	21.93
			12	6	22.50	22.01	22.05	21.91
			12	11	22.50	22.03	21.98	21.81
			25	0	22.50	22.02	22.01	21.87
		16QAM	1	0	23.00	22.61	22.50	22.35
			1	12	23.00	22.55	22.52	22.32
			1	24	23.00	22.55	22.44	22.26

			12	0	21.00	20.97	20.98	20.97
			12	6	21.00	20.99	20.94	20.92
			12	11	21.00	21.00	20.93	20.83
			25	0	21.50	20.96	21.02	20.86
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	23.50	23.03	22.96	23.08
			1	24	23.50	23.03	23.07	23.07
			1	49	23.50	23.08	23.03	22.98
			25	0	22.50	21.89	22.13	22.01
			25	12	22.50	22.03	22.00	21.98
			25	24	22.50	22.01	22.02	21.91
			50	0	22.50	21.95	22.14	21.99
		16QAM	1	0	23.00	22.51	22.18	21.98
			1	24	23.00	22.46	22.27	21.96
			1	49	23.00	22.51	22.18	21.82
			25	0	21.50	20.92	21.14	21.01
			25	12	21.50	21.05	21.02	20.98
			25	24	21.50	21.00	21.04	20.91
			50	0	21.50	20.95	21.13	20.96

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	23.00	22.79	22.76	22.90
			1	12	23.00	22.85	22.81	22.87
			1	24	23.00	22.91	22.79	22.88
			12	0	22.00	21.49	21.66	21.83
			12	6	22.00	21.66	21.70	21.76
			12	11	22.00	21.77	21.62	21.76
			25	0	22.00	21.69	21.65	21.75
		16QAM	1	0	22.50	22.16	22.06	22.32
			1	12	22.50	22.21	22.11	22.28
			1	24	22.50	22.28	22.10	22.30
			12	0	21.00	20.49	20.74	20.83
			12	6	21.00	20.60	20.75	20.77
			12	11	21.00	20.70	20.64	20.77

			25	0	21.00	20.67	20.60	20.76
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	23.00	/	21.64	/
			1	24	23.00	/	22.73	/
			1	49	23.00	/	21.90	/
			25	0	22.00	/	21.50	/
			25	12	22.00	/	21.73	/
			25	24	22.00	/	21.75	/
			50	0	22.00	/	21.67	/
		16QAM	1	0	22.50	/	22.14	/
			1	24	22.50	/	22.22	/
			1	49	22.50	/	22.25	/
			25	0	21.00	/	20.56	/
			25	12	21.00	/	20.74	/
			25	24	21.00	/	20.78	/
			50	0	21.00	/	20.63	/

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	22.42	22.39	22.42
			1	12	23.00	22.55	22.46	22.41
			1	24	23.00	22.51	22.34	22.36
			12	0	22.00	21.95	21.93	21.83
			12	6	22.00	21.96	21.89	21.79
			12	11	22.00	21.87	21.83	21.69
			25	0	22.00	21.96	21.90	21.81
		16QAM	1	0	22.50	21.86	21.81	21.75
			1	12	22.50	22.01	21.84	21.75
			1	24	22.50	21.99	21.75	21.67
			12	0	21.50	21.06	20.85	20.83
			12	6	21.50	20.92	20.80	20.83
			12	11	21.50	20.83	20.76	20.72
			25	0	21.00	20.91	20.91	20.76
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	22.32	22.48	22.52
			1	24	23.00	22.47	22.47	22.49
			1	49	23.00	22.42	22.39	22.35
			25	0	22.00	21.97	21.96	21.94
			25	12	22.00	21.92	21.92	21.92
			25	24	22.00	21.92	21.91	21.80
			50	0	22.00	21.95	21.95	21.88
		16QAM	1	0	22.00	21.53	21.35	21.88
			1	24	22.00	21.65	21.36	21.87
			1	49	22.00	21.59	21.27	21.76
			25	0	21.00	20.96	20.94	20.95
			25	12	21.00	20.91	20.87	20.91
			25	24	21.00	20.91	20.87	20.85
			50	0	21.00	20.94	20.92	20.88

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23875/817.5	23925/822.5	23975/827.5
LTE Band 18	5MHz	QPSK	1	0	22.50	22.37	22.29	22.38
			1	12	22.50	22.37	22.34	22.38
			1	24	22.50	22.39	22.36	22.33
			12	0	22.00	21.80	21.83	21.79
			12	6	22.00	21.78	21.80	21.81
			12	11	22.00	21.83	21.73	21.76
			25	0	22.00	21.82	21.80	21.77
		16QAM	1	0	22.00	21.77	21.75	21.67
			1	12	22.00	21.77	21.82	21.65
			1	24	22.00	21.81	21.79	21.61
			12	0	21.00	20.76	20.74	20.86
			12	6	21.00	20.75	20.72	20.84
			12	11	21.00	20.77	20.65	20.80
			25	0	21.00	20.77	20.79	20.74
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23900/820	23925/822.5	23950/825
LTE	10MHz	QPSK	1	0	22.50	22.37	22.36	22.27

Band 18			1	24	22.50	22.46	22.43	22.35
			1	49	22.50	22.46	22.36	22.27
			25	0	22.00	21.80	21.82	21.84
			25	12	22.00	21.84	21.81	21.81
			25	24	22.00	21.83	21.83	21.83
			50	0	22.00	21.84	21.81	21.89
		16QAM	1	0	22.00	21.24	21.72	21.47
			1	24	22.00	21.32	21.79	21.55
			1	49	22.00	21.26	21.73	21.47
			25	0	21.00	20.76	20.85	20.86
			25	12	21.00	20.80	20.82	20.86
			25	24	21.00	20.83	20.82	20.83
			50	0	21.00	20.79	20.82	20.89

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23925/822.5	/
LTE Band 18	15MHz	QPSK	1	0	23.00	/	22.68	/
			1	37	23.00	/	22.76	/
			1	74	23.00	/	22.65	/
			36	0	22.00	/	21.75	/
			36	18	22.00	/	21.73	/
			36	37	22.00	/	21.77	/
			75	0	22.00	/	21.78	/
		16QAM	1	0	22.00	/	21.52	/
			1	37	22.00	/	21.58	/
			1	74	22.00	/	21.45	/
			36	0	21.00	/	20.73	/
			36	18	21.00	/	20.72	/
			36	37	21.00	/	20.73	/
			75	0	21.00	/	20.75	/

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		24025/832.5	24075/837.5	24125/842.5
LTE Band 19	5MHz	QPSK	1	0	22.50	22.34	22.31	22.27
			1	12	22.50	22.34	22.26	22.28
			1	24	22.50	22.41	22.21	22.26
			12	0	22.00	21.75	21.73	21.70

			12	6	22.00	21.75	21.72	21.65
			12	11	22.00	21.71	21.63	21.60
			25	0	22.00	21.76	21.68	21.67
		16QAM	1	0	22.00	21.74	21.57	21.68
			1	12	22.00	21.70	21.56	21.70
			1	24	22.00	21.74	21.51	21.66
			12	0	21.00	20.70	20.78	20.67
			12	6	21.00	20.70	20.75	20.63
			12	11	21.00	20.69	20.69	20.59
			25	0	21.00	20.76	20.68	20.68
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		24050/835	24075/837.5	24100/840
LTE Band 19	10MHz	QPSK	1	0	22.50	22.31	22.25	22.24
			1	24	22.50	22.27	22.23	22.24
			1	49	22.50	22.23	22.15	22.22
			25	0	22.00	21.79	21.75	21.70
			25	12	22.00	21.77	21.69	21.71
			25	24	22.00	21.72	21.69	21.67
			50	0	22.00	21.80	21.81	21.71
		16QAM	1	0	22.00	21.77	21.45	21.13
			1	24	22.00	21.73	21.42	21.07
			1	49	22.00	21.60	21.34	21.10
			25	0	21.00	20.80	20.77	20.72
			25	12	21.00	20.79	20.73	20.70
			25	24	21.00	20.72	20.71	20.62
			50	0	21.00	20.77	20.78	20.70
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	24075/837.5	/
LTE Band 19	15MHz	QPSK	1	0	23.00	/	22.59	/
			1	37	23.00	/	22.58	/
			1	74	23.00	/	22.39	/
			36	0	22.00	/	21.70	/
			36	18	22.00	/	21.67	/
			36	37	22.00	/	21.66	/
			75	0	22.00	/	21.67	/
		16QAM	1	0	22.00	/	21.70	/

			1	37	22.00	/	21.65	/
			1	74	22.00	/	21.53	/
			36	0	21.00	/	20.72	/
			36	18	21.00	/	20.73	/
			36	37	21.00	/	20.70	/
			75	0	21.00	/	20.68	/

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26047/1850.7	26365/1882.5	26683/1914.3
LTE Band 25	1.4MHz	QPSK	1	0	22.00	21.52	21.53	21.63
			1	2	22.00	21.54	21.51	21.60
			1	5	22.00	21.48	21.47	21.62
			3	0	22.00	21.45	21.55	21.65
			3	1	22.00	21.45	21.55	21.64
			3	2	22.00	21.45	21.49	21.65
			6	0	21.00	20.41	20.49	20.61
		16QAM	1	0	21.00	20.66	20.73	20.51
			1	2	21.00	20.68	20.78	20.53
			1	5	21.00	20.68	20.73	20.51
			3	0	21.00	20.66	20.75	20.77
			3	1	21.00	20.66	20.78	20.79
			3	2	21.00	20.64	20.78	20.78
			6	0	20.00	19.62	19.65	19.76

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26055/1851.5	26365/1882.5	26675/1913.5
LTE Band 25	3MHz	QPSK	1	0	22.00	21.51	21.56	21.66
			1	7	22.00	21.46	21.57	21.74
			1	14	22.00	21.49	21.53	21.66
			8	0	21.00	20.47	20.52	20.67
			8	4	21.00	20.49	20.53	20.62
			8	7	21.00	20.46	20.50	20.60
			15	0	21.00	20.48	20.54	20.64
		16QAM	1	0	21.00	20.95	20.78	20.56
			1	7	21.00	20.95	20.81	20.59
			1	14	21.00	20.94	20.73	20.53
			8	0	20.00	19.50	19.56	19.70

			8	4	20.00	19.52	19.54	19.67
			8	7	20.00	19.48	19.52	19.63
			15	0	20.00	19.47	19.49	19.68
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26065/1852.5	26365/1882.5	26665/1912.5
LTE Band 25	5MHz	QPSK	1	0	22.00	21.58	21.67	21.73
			1	12	22.00	21.62	21.66	21.75
			1	24	22.00	21.63	21.63	21.71
			12	0	21.00	20.52	20.59	20.64
			12	6	21.00	20.54	20.57	20.68
			12	11	21.00	20.51	20.60	20.54
			25	0	21.00	20.54	20.60	20.64
		16QAM	1	0	21.50	21.12	21.01	21.04
			1	12	21.50	21.11	20.99	21.06
			1	24	21.50	21.16	20.98	21.04
			12	0	20.00	19.51	19.52	19.65
			12	6	20.00	19.50	19.48	19.69
			12	11	20.00	19.47	19.46	19.55
			25	0	20.00	19.49	19.62	19.58
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26090/1855	26365/1882.5	26640/1910
LTE Band 25	10MHz	QPSK	1	0	22.00	21.58	21.62	21.72
			1	24	22.00	21.58	21.67	21.80
			1	49	22.00	21.59	21.64	21.75
			25	0	21.00	20.55	20.61	20.70
			25	12	21.00	20.53	20.62	20.69
			25	24	21.00	20.57	20.61	20.70
			50	0	21.00	20.59	20.66	20.69
		16QAM	1	0	21.50	20.72	20.49	21.12
			1	24	21.50	20.73	20.53	21.14
			1	49	21.50	20.69	20.53	21.06
			25	0	20.00	19.50	19.59	19.75
			25	12	20.00	19.53	19.57	19.70
			25	24	20.00	19.59	19.61	19.72
			50	0	20.00	19.58	19.58	19.67
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration					
			RB Size	RB Offset		26115/1857.5	26365/1882.5	26615/1907.5
LTE Band 25	15MHz	QPSK	1	0	22.00	21.53	21.65	21.61
			1	37	22.00	21.55	21.63	21.71
			1	74	22.00	21.53	21.54	21.64
			36	0	21.00	20.51	20.61	20.73
			36	18	21.00	20.54	20.61	20.72
			36	37	21.00	20.58	20.60	20.74
			75	0	21.00	20.56	20.62	20.74
		16QAM	1	0	21.50	20.68	21.08	20.82
			1	37	21.50	20.71	21.12	20.94
			1	74	21.50	20.66	20.96	20.83
			36	0	20.00	19.49	19.64	19.84
			36	18	20.00	19.52	19.62	19.75
			36	37	20.00	19.55	19.61	19.80
			75	0	20.00	19.59	19.59	19.71
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26140/1860	26365/1882.5	26590/1905
LTE Band 25	20MHz	QPSK	1	0	22.00	21.57	21.59	21.58
			1	49	22.00	21.61	21.69	21.74
			1	99	22.00	21.54	21.57	21.64
			50	0	21.00	20.49	20.70	20.79
			50	24	21.00	20.60	20.65	20.72
			50	49	21.00	20.61	20.64	20.78
			100	0	21.00	20.57	20.69	20.77
		16QAM	1	0	21.50	20.77	20.92	20.86
			1	49	21.50	20.80	21.04	21.02
			1	99	21.50	20.74	20.94	20.92
			50	0	20.00	19.52	19.69	19.73
			50	24	20.00	19.59	19.70	19.68
			50	49	20.00	19.61	19.68	19.74
			100	0	20.00	19.51	19.62	19.75

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE	1.4MHz	QPSK	1	0	23.00	21.75	22.96	22.75

Band 26a			1	2	23.00	22.83	22.99	22.73
			1	5	23.00	22.74	22.93	22.73
			3	0	23.00	22.80	22.80	22.84
			3	1	23.00	22.80	22.82	22.84
			3	2	23.00	22.76	22.78	22.83
			6	0	22.00	21.75	21.80	21.79
		16QAM	1	0	22.50	21.69	22.01	22.04
			1	2	22.50	21.71	22.02	22.03
			1	5	22.50	21.70	22.00	22.04
			3	0	22.50	21.92	22.03	21.95
			3	1	22.50	21.94	22.02	21.97
			3	2	22.50	21.92	22.00	21.97
			6	0	21.00	20.91	20.96	20.94
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26705/818.5	26740/819	26775/822.5
LTE Band 26a	3MHz	QPSK	1	0	23.00	22.76	22.89	22.83
			1	7	23.00	22.82	22.89	22.80
			1	14	23.00	22.83	22.92	22.78
			8	0	22.00	21.71	21.79	21.74
			8	4	22.00	21.76	21.79	21.82
			8	7	22.00	21.83	21.79	21.72
			15	0	22.00	21.77	21.83	21.82
		16QAM	1	0	22.50	21.72	22.24	22.09
			1	7	22.50	21.73	22.28	22.04
			1	14	22.50	21.70	22.25	22.00
			8	0	21.00	20.79	20.82	20.83
			8	4	21.00	20.76	20.89	20.75
			8	7	21.00	20.80	20.84	20.80
			15	0	21.00	20.82	20.78	20.71
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5
LTE Band 26a	5MHz	QPSK	1	0	23.00	22.87	22.79	22.49
			1	12	23.00	22.90	22.85	22.49
			1	24	23.00	22.95	22.87	22.56
			12	0	22.00	21.81	21.81	21.85
			12	6	22.00	21.80	21.85	21.86
			12	11	22.00	21.81	21.82	21.79

			25	0	22.00	21.84	21.86	21.83
		16QAM	1	0	22.50	22.24	22.29	21.73
			1	12	22.50	22.28	22.16	21.76
			1	24	22.50	22.32	22.14	21.67
			12	0	21.00	20.78	20.70	20.88
			12	6	21.00	20.77	20.76	20.91
			12	11	21.00	20.78	20.74	20.81
			25	0	21.00	20.80	20.87	20.79

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	26740/819	/
LTE Band 26a	10MHz	QPSK	1	0	23.00	/	22.69	/
			1	24	23.00	/	22.78	/
			1	49	23.00	/	22.64	/
			25	0	22.00	/	21.78	/
			25	12	22.00	/	21.82	/
			25	24	22.00	/	21.86	/
			50	0	22.00	/	21.88	/
		16QAM	1	0	22.00	/	21.45	/
			1	24	22.00	/	21.56	/
			1	49	22.00	/	21.48	/
			25	0	21.00	/	20.80	/
			25	12	21.00	/	20.84	/
			25	24	21.00	/	20.88	/
			50	0	21.00	/	20.84	/

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	23.00	22.93	22.14	22.23
			1	2	23.00	22.95	22.13	22.19
			1	5	23.00	22.88	22.12	22.21
			3	0	23.00	22.76	22.75	22.73
			3	1	23.00	22.70	22.74	22.73
			3	2	23.00	22.68	22.72	22.74
			6	0	22.00	21.73	21.71	21.74
		16QAM	1	0	22.00	21.48	21.42	21.13
			1	2	22.00	21.53	21.40	21.13
			1	5	22.00	21.43	21.43	21.12

			3	0	22.00	21.99	21.85	21.88
			3	1	22.00	21.99	21.87	21.87
			3	2	22.00	21.98	21.88	21.91
			6	0	21.00	20.94	20.85	20.89
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26805/825.5	26915/836.5	27025/847.5
LTE Band 26b	3MHz	QPSK	1	0	22.50	22.30	22.17	22.18
			1	7	22.50	22.33	22.18	22.26
			1	14	22.50	22.32	22.16	22.22
			8	0	22.00	21.77	21.62	21.72
			8	4	22.00	21.76	21.62	21.69
			8	7	22.00	21.77	21.63	21.69
			15	0	22.00	21.79	21.72	21.69
		16QAM	1	0	22.00	21.74	21.44	21.13
			1	7	22.00	21.84	21.45	21.15
			1	14	22.00	21.77	21.41	21.13
			8	0	21.00	20.82	20.71	20.74
			8	4	21.00	20.81	20.68	20.73
			8	7	21.00	20.84	20.69	20.70
			15	0	21.00	20.83	20.68	20.77
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26815/826.5	26915/836.5	27015/846.5
LTE Band 26b	5MHz	QPSK	1	0	22.50	22.39	22.27	22.21
			1	12	22.50	22.44	22.25	22.28
			1	24	22.50	22.42	22.21	22.26
			12	0	22.00	21.82	21.77	21.77
			12	6	22.00	21.85	21.73	21.70
			12	11	22.00	21.86	21.72	21.59
			25	0	22.00	21.86	21.77	21.69
		16QAM	1	0	22.00	21.82	21.68	21.48
			1	12	22.00	21.88	21.67	21.60
			1	24	22.00	21.83	21.65	21.55
			12	0	21.00	20.80	20.69	20.80
			12	6	21.00	20.81	20.64	20.74
			12	11	21.00	20.86	20.60	20.61
			25	0	21.00	20.82	20.78	20.70

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
LTE Band 26b	10MHz	QPSK	1	0	22.50	22.29	22.25	22.21
			1	24	22.50	22.36	22.21	22.24
			1	49	22.50	22.31	22.19	22.28
			25	0	22.00	21.79	21.75	21.72
			25	12	22.00	21.81	21.72	21.70
			25	24	22.00	21.84	21.68	21.59
			50	0	22.00	21.87	21.78	21.69
		16QAM	1	0	22.00	21.73	21.45	21.10
			1	24	22.00	21.80	21.39	21.12
			1	49	22.00	21.69	21.37	21.11
			25	0	21.00	20.84	20.78	20.71
			25	12	21.00	20.83	20.75	20.69
			25	24	21.00	20.87	20.71	20.57
			50	0	21.00	20.83	20.77	20.63

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	QPSK	1	0	22.50	22.10	22.27	22.13
			1	37	22.50	22.18	22.21	22.05
			1	74	22.50	22.03	22.12	22.10
			36	0	22.00	21.74	21.70	21.72
			36	18	22.00	21.73	21.72	21.65
			36	37	22.00	21.74	21.67	21.59
			75	0	22.00	21.76	21.73	21.66
		16QAM	1	0	22.00	21.71	21.48	21.37
			1	37	22.00	21.73	21.44	21.33
			1	74	22.00	21.61	21.36	21.33
			36	0	21.00	20.83	20.80	20.69
			36	18	21.00	20.78	20.81	20.68
			36	37	21.00	20.75	20.75	20.57
			75	0	21.00	20.73	20.72	20.70

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675/2498.5	40620/2593	41565/2687.5
LTE	5MHz	QPSK	1	0	22.50	22.13	21.41	21.84

Band 41			1	12	22.50	22.08	21.35	21.85
			1	24	22.50	22.03	21.34	21.80
			12	0	21.50	21.12	20.39	20.91
			12	6	21.50	21.09	20.42	20.89
			12	11	21.50	21.05	20.33	20.87
			25	0	21.50	21.11	20.37	20.93
		16QAM	1	0	22.00	21.68	20.71	21.25
			1	12	22.00	21.68	20.66	21.24
			1	24	22.00	21.60	20.61	21.21
			12	0	20.50	20.10	19.39	19.98
			12	6	20.50	20.16	19.41	19.98
			12	11	20.50	20.05	19.35	19.93
			25	0	20.50	20.04	19.42	19.88

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39700/2501	40620/2593	41540/2685
LTE Band 41	10MHz	QPSK	1	0	22.50	22.10	21.42	21.97
			1	24	22.50	21.98	21.37	21.86
			1	49	22.50	21.94	21.34	21.88
			25	0	21.50	21.15	20.42	20.95
			25	12	21.50	21.10	20.38	20.94
			25	24	21.50	21.06	20.30	20.87
			50	0	21.50	21.09	20.38	20.90
		16QAM	1	0	22.00	21.63	20.63	20.97
			1	24	22.00	21.56	20.53	20.87
			1	49	22.00	21.53	20.52	20.91
			25	0	20.50	20.16	19.43	19.96
			25	12	20.50	20.15	19.42	19.94
			25	24	20.50	20.08	19.40	19.89
			50	0	20.50	20.13	19.43	19.90

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39725/2503.5	40620/2593	41515/2682.5
LTE Band 41	15MHz	QPSK	1	0	22.50	22.14	21.51	21.93
			1	37	22.50	21.88	21.33	21.81
			1	74	22.50	21.85	21.30	21.78
			36	0	21.50	21.09	20.45	20.90
			36	18	21.50	21.07	20.35	20.90
			36	37	21.50	21.00	20.33	20.91
			75	0	21.50	21.04	20.35	20.88
		16QAM	1	0	22.00	21.72	20.63	21.24
			1	37	22.00	21.53	20.48	21.09
			1	74	22.00	21.45	20.48	21.06
			36	0	20.50	20.17	19.57	19.89
			36	18	20.50	20.12	19.50	19.89
			36	37	20.50	20.04	19.44	19.87
			75	0	20.50	20.07	19.38	19.95

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39750/2506	40620/2593	41490/2680
LTE Band 41	20MHz	QPSK	1	0	22.50	22.21	21.54	21.87
			1	49	22.50	21.99	21.29	21.86
			1	99	22.50	21.91	21.29	21.88
			50	0	21.50	21.10	20.47	20.89
			50	24	21.50	21.02	20.42	20.93
			50	49	21.50	20.99	20.32	20.90
			100	0	21.50	21.05	20.45	20.89
		16QAM	1	0	22.00	21.50	20.82	21.15
			1	49	22.00	21.25	20.64	21.09
			1	99	22.00	21.19	20.58	21.10
			50	0	20.50	20.20	19.47	19.97
			50	24	20.50	20.15	19.43	19.98
			50	49	20.50	20.04	19.33	19.95
			100	0	20.50	20.11	19.41	19.95

7.5. NR Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		500202/2501.01	518598/2592.99	537000/2685
NR Band n41	10MHz	DFT BPSK	1	1	23.00	23.00	22.41	22.41
		DFT QPSK	24	0	22.50	22.11	22.11	21.90
			12	6	23.00	23.00	23.00	22.90
			1	1	23.50	22.99	23.10	22.77
			1	22	23.50	23.06	23.01	22.90
		DFT QAM16	1	1	22.50	21.99	22.07	21.86
		DFT QAM64	1	1	20.50	20.43	20.46	20.26
		DFT QAM256	1	1	20.50	20.48	20.45	20.23
		CP QPSK	1	1	21.00	20.51	20.07	20.20
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	15MHz	DFT BPSK	1	1	23.00	23.00	22.39	22.16
		DFT	36	0	22.50	22.18	22.12	21.85

n41		QPSK	18	9	23.00	23.00	23.00	22.92
			1	1	23.50	23.05	23.16	22.66
			1	36	23.50	22.14	23.07	22.91
		DFT QAM16	1	1	22.50	22.07	22.02	21.72
		DFT QAM64	1	1	21.00	20.53	20.46	20.13
		DFT QAM256	1	1	21.00	20.54	20.41	20.13
		CP QPSK	1	1	20.50	20.46	20.45	20.14
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	20.50	20.43	20.12	20.17
		DFT QPSK	50	0	22.50	22.13	22.13	21.85
			25	12	23.00	23.00	23.00	22.85
			1	1	23.50	22.96	23.08	22.68
			1	49	23.50	23.03	22.96	22.91
		DFT QAM16	1	1	22.00	21.94	21.95	21.75
		DFT QAM64	1	1	20.50	20.39	20.28	20.14
		DFT QAM256	1	1	20.50	20.29	20.34	20.14
		CP QPSK	1	1	20.50	20.27	20.30	20.17
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	23.00	22.58	21.84	22.09
		DFT QPSK	100	0	22.50	22.03	21.97	21.76
			50	25	23.00	23.00	23.00	22.86
			1	1	23.50	22.54	23.25	22.13
			1	104	23.50	21.64	22.58	22.07
		DFT QAM16	1	1	22.00	21.57	21.47	21.32
		DFT QAM64	1	1	20.50	20.03	19.93	19.45
		DFT	1	1	20.50	20.04	19.91	19.43

		QAM256						
		CP QPSK	1	1	20.50	20.09	19.89	19.43
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		504204/2521.02	518598/2592.99	532998/2664.99
NR Band n41	50MHz	DFT BPSK	1	1	22.50	22.27	22.27	22.31
		DFT QPSK	128	0	22.50	22.07	22.05	21.81
			64	32	23.00	23.00	23.00	22.92
			1	1	23.50	22.85	23.12	22.34
			1	131	23.50	22.86	22.80	21.55
		DFT QAM16	1	1	22.00	21.95	21.78	21.47
		DFT QAM64	1	1	20.50	20.26	20.26	19.84
		DFT QAM256	1	1	20.50	20.28	20.26	19.80
		CP QPSK	1	1	20.50	20.30	20.30	19.82
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	60MHz	DFT BPSK	1	1	22.50	21.05	21.14	22.48
		DFT QPSK	162	0	22.50	22.05	22.05	21.87
			81	40	23.00	23.00	23.00	22.89
			1	1	23.50	22.76	23.18	22.51
			1	160	23.50	22.92	22.61	22.62
		DFT QAM16	1	1	22.00	21.77	21.84	21.48
		DFT QAM64	1	1	20.50	20.07	20.13	19.96
		DFT QAM256	1	1	20.50	20.14	20.00	19.96
		CP QPSK	1	1	20.50	20.16	20.27	19.94
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	80MHz	DFT BPSK	1	1	22.50	22.40	21.75	21.39
		DFT	216	0	22.50	22.06	21.95	21.79

n41		QPSK	108	54	23.00	23.00	22.98	22.88
			1	1	23.50	22.44	23.44	22.06
			1	215	23.50	22.01	22.60	22.53
		DFT QAM16	1	1	21.50	21.49	21.47	21.05
		DFT QAM64	1	1	20.00	19.67	19.78	19.35
		DFT QAM256	1	1	20.00	19.76	19.73	19.27
		CP QPSK	1	1	20.00	19.76	19.75	19.29
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	22.50	21.43	22.42	21.39
		DFT QPSK	240	0	22.00	21.97	21.95	21.77
			120	60	23.00	23.00	23.00	22.87
			1	1	23.50	22.28	23.18	22.01
			1	243	23.50	22.35	22.46	22.49
		DFT QAM16	1	1	21.50	21.41	21.22	21.08
		DFT QAM64	1	1	20.00	19.48	19.55	19.47
		DFT QAM256	1	1	20.00	19.68	19.55	19.42
		CP QPSK	1	1	20.00	19.69	19.55	19.41
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	22.50	22.47	22.32	22.23
		DFT QPSK	270	0	22.00	21.87	21.90	21.75
			135	67	23.00	23.00	22.86	22.89
			1	1	23.50	22.09	23.35	21.89
			1	271	23.50	22.36	22.23	22.39
		DFT QAM16	1	1	21.50	21.09	21.03	20.86
		DFT QAM64	1	1	19.50	19.43	19.41	19.35
		DFT	1	1	19.50	19.46	19.39	19.26

		QAM256						
		CP QPSK	1	1	19.50	19.45	19.41	19.12

7.6. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11b	1	2412	14.00	13.97
	6	2437	14.00	13.43
	11	2462	14.00	13.85
802.11g	1	2412	13.00	12.79
	6	2437	13.00	11.80
	11	2462	13.00	12.50
802.11n HT20	1	2412	13.00	12.60
	6	2437	13.00	11.68
	11	2462	13.00	12.16
802.11n HT40	3	2422	12.00	11.82
	6	2437	12.00	10.80
	9	2452	12.00	10.78

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	11.500	11.084
	40	5200	11.500	10.948
	48	5240	11.500	11.031
802.11n HT20	36	5180	10.000	9.987
	40	5200	10.000	9.600
	48	5240	10.000	9.804
802.11n HT40	38	5190	9.500	8.752
	46	5230	9.500	9.101
802.11ac VHT20	36	5180	10.000	9.848
	40	5200	10.000	9.526
	48	5240	10.000	9.775
802.11ac VHT40	38	5190	9.000	8.721
	46	5230	9.000	8.865
802.11ac VHT80	42	5210	10.000	9.505

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)

802.11a	52	5260	10.000	9.915
	56	5280	10.000	9.648
	64	5320	10.000	9.656
802.11n HT20	52	5260	10.600	10.571
	56	5280	10.600	9.424
	64	5320	10.600	8.671
802.11n HT40	54	5270	10.000	9.812
	62	5310	10.000	8.566
802.11ac VHT20	52	5260	10.600	10.595
	56	5280	10.600	9.511
	64	5320	10.600	9.289
802.11ac VHT40	54	5270	10.000	9.820
	62	5310	10.000	8.625
802.11ac VHT80	58	5290	9.000	8.931

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	100	5500	10.000	9.938
	120	5600	10.000	9.313
	140	5700	10.000	9.493
802.11n (HT20)	100	5500	9.500	8.808
	120	5600	9.500	8.933
	140	5700	9.500	9.097
802.11n (HT40)	102	5510	10.500	9.265
	118	5590	10.500	10.120
	134	5670	10.500	10.043
802.11ac (HT20)	100	5500	10.000	8.835
	120	5600	10.000	9.931
	140	5700	10.000	9.071
802.11ac (HT40)	102	5510	10.500	9.308
	118	5590	10.500	10.086
	134	5670	10.500	8.732
802.11ac (VHT80)	106	5530	10.000	9.745
	122	5610	10.000	9.361

NOTE: Power measurement results of WLAN 5.6G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)

802.11a	149	5745	10.000	9.749
	157	5785	10.000	9.780
	165	5825	10.000	9.615
802.11n HT20	149	5745	10.000	9.707
	157	5785	10.000	8.938
	165	5825	10.000	8.900
802.11n HT40	151	5755	9.500	9.086
	159	5795	9.500	8.943
802.11ac VHT20	149	5745	10.500	10.038
	157	5785	10.500	9.102
	165	5825	10.500	9.195
802.11ac VHT40	151	5755	9.500	9.049
	159	5795	9.500	8.070
802.11ac VHT80	155	5775	9.500	9.221

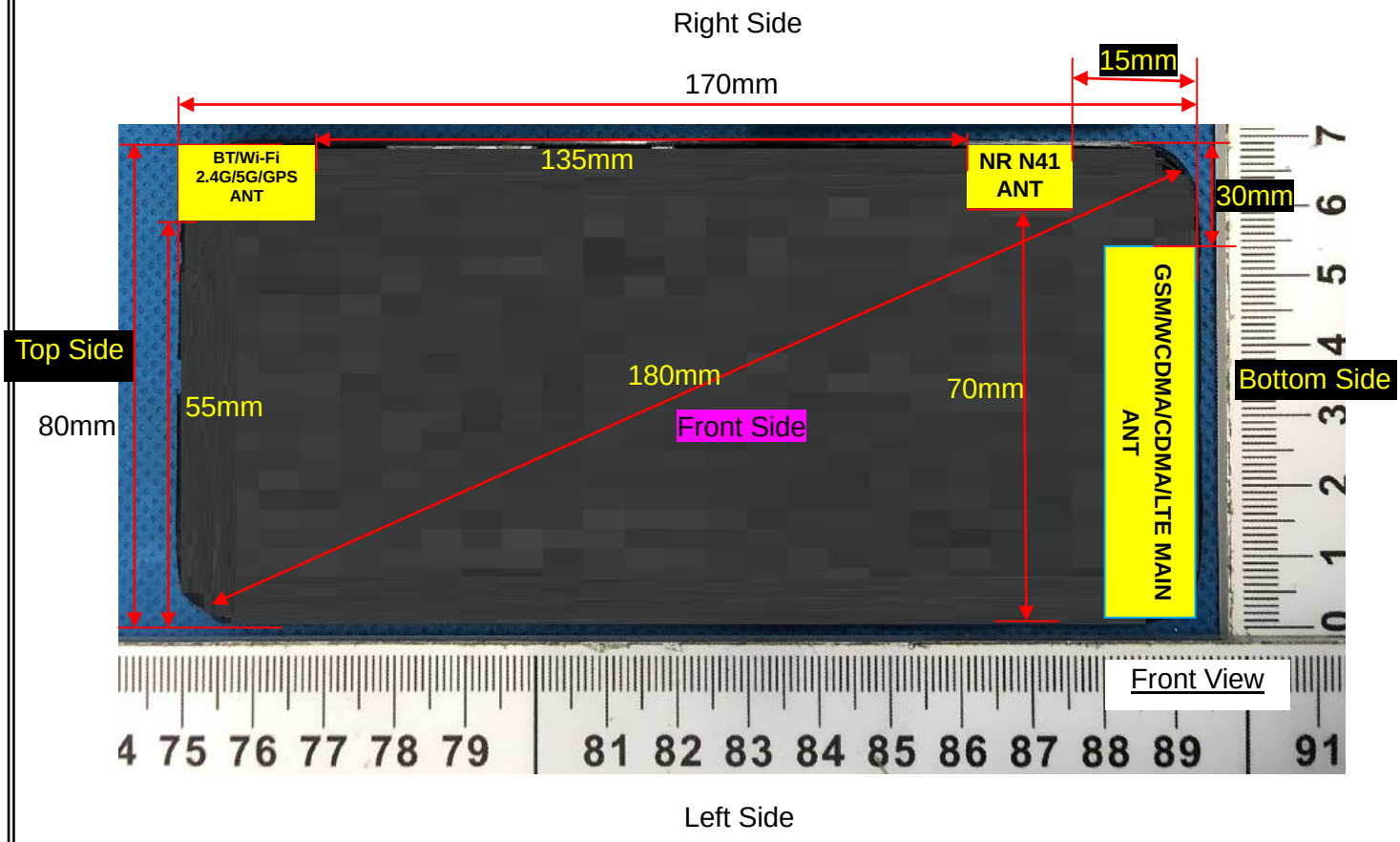
NOTE: Power measurement results of WLAN 5.8G.

	Output Power (dBm)				
BR+EDR	Channel	Tune-up	Data Rates		
			1M	2M	3M
	0CH	8.000	7.278	7.584	7.704
	39CH	8.500	7.747	8.036	8.020
	78CH	8.000	7.517	6.933	6.894

BLE	Channel	Tune-up	Output Power (dBm)	
			1M	2M
	0CH	-7.000	-7.271	-7.335
	19CH	-7.000	-8.131	-7.840
	39CH	-7.000	-7.157	-7.155

NOTE: Power measurement results of Bluetooth.

8. Antenna Location



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

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
GSM/WCDMA/LTE Main ANT	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	> 25mm	≤ 25mm
NR N41 ANT	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	> 25mm	≤ 25mm
WLAN & Bluetooth	≤ 25mm	≤ 25mm	> 25mm	≤25mm	≤ 25mm	>25mm
Positions for SAR tests						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
GSM/WCDMA/LTE Main ANT	Yes	Yes	Yes	NO	NO	Yes
NR N41 ANT	Yes	Yes	NO	Yes	NO	Yes
WLAN & Bluetooth	Yes	Yes	NO	Yes	Yes	NO

9. Stand-alone SAR test exclusion

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

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

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

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

Mode	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	8.50	7.08	5	2.480	2.23	3	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:

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

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

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	8.50	7.08	5	2.48	7.5	0.297
Bluetooth	Body	8.50	7.08	10	2.48	7.5	0.149
Bluetooth	Hotspot	8.50	7.08	10	2.48	7.5	0.149

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement Result

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	189/836.4	GPRS(GMSK 4TS)	0.368	0.282	-0.68	28.76	29.00	0.389	2021/7/12
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.192	0.147	-4.70	28.76	29.00	0.203	2021/7/12
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.334	0.252	-2.20	28.76	29.00	0.353	2021/7/12

Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.174	0.137	4.40	28.76	29.00	0.184	2021/7/12

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 4TS)	0.216	0.137	-1.94	28.76	29.00	0.228	2021/7/12
Back Side	189/836.4	GPRS(GMSK 4TS)	0.346	0.228	3.57	28.76	29.00	0.366	2021/7/12

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 4TS)	0.216	0.137	-1.94	28.76	29.00	0.228	2021/7/12
Back Side	189/836.4	GPRS(GMSK 4TS)	0.346	0.228	3.57	28.76	29.00	0.366	2021/7/12
Left Side	189/836.4	GPRS(GMSK 4TS)	0.105	0.067	-1.22	28.76	29.00	0.111	2021/7/12
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.156	0.103	-1.78	28.76	29.00	0.165	2021/7/12

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	661/1880	GPRS(GMSK 2TS)	0.133	0.070	-0.94	29.64	30.00	0.144	2021/7/19
Left Tilt 15 Degree	661/1880	GPRS(GMSK 2TS)	0.072	0.041	0.34	29.64	30.00	0.078	2021/7/19
Right Cheek	661/1880	GPRS(GMSK 2TS)	0.120	0.063	1.12	29.64	30.00	0.130	2021/7/19
Right Tilt 15	661/1880	GPRS(GMSK 2TS)	0.059	0.026	-2.18	29.64	30.00	0.064	2021/7/19

Degree									

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	661/1880	GPRS(GMSK 2TS)	0.258	0.125	-2.80	29.64	30.00	0.280	2021/7/19
Back Side	661/1880	GPRS(GMSK 2TS)	0.422	0.210	4.96	29.64	30.00	0.458	2021/7/19

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	661/1880	GPRS(GMSK 2TS)	0.258	0.125	-2.80	29.64	30.00	0.280	2021/7/19
Back Side	661/1880	GPRS(GMSK 2TS)	0.422	0.210	4.96	29.64	30.00	0.458	2021/7/19
Left Side	661/1880	GPRS(GMSK 2TS)	0.135	0.065	0.99	29.64	30.00	0.147	2021/7/19
Bottom Side	661/1880	GPRS(GMSK 2TS)	0.176	0.085	2.04	29.64	30.00	0.191	2021/7/19

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of CDMA Band BC0

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	384/836.52	1xRTT(RC3, SO55)	0.092	0.059	-3.59	23.42	24.00	0.105	2021/7/12
Left Tilt 15 Degree	384/836.52	1xRTT(RC3, SO55)	0.048	0.030	3.11	23.42	24.00	0.055	2021/7/12
Right Cheek	384/836.52	1xRTT(RC3, SO55)	0.083	0.051	-1.08	23.42	24.00	0.095	2021/7/12
Right Tilt 15 Degree	384/836.52	1xRTT(RC3, SO55)	0.041	0.025	0.54	23.42	24.00	0.047	2021/7/12
Left Cheek	384/836.52	1xEV-Do Rel.0	0.080	0.049	-0.40	23.42	24.00	0.091	2021/7/12
Left Tilt 15 Degree	384/836.52	1xEV-Do Rel.0	0.046	0.028	-1.27	23.42	24.00	0.053	2021/7/12

Right Cheek	384/836.52	1xEV-Do Rel.0	0.071	0.042	-1.55	23.42	24.00	0.081	2021/7/12
Right Tilt 15 Degree	384/836.52	1xEV-Do Rel.0	0.032	0.019	-4.25	23.42	24.00	0.037	2021/7/12

NOTE: Head SAR test results of CDMA Band BC0

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	384/836.52	1xRTT(RC3, SO32(+F-SCH))	0.120	0.066	2.75	23.52	24.00	0.134	2021/7/12
Back Side	384/836.52	1xRTT(RC3, SO32(+F-SCH))	0.197	0.110	-0.61	23.52	24.00	0.220	2021/7/12

NOTE: Body-Worn SAR test results of CDMA Band BC0

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	384/836.52	1xRTT(RC3, SO32(+F-SCH))	0.120	0.066	2.75	23.52	24.00	0.134	2021/7/12
Back Side	384/836.52	1xRTT(RC3, SO32(+F-SCH))	0.197	0.110	-0.61	23.52	24.00	0.220	2021/7/12
Left Side	384/836.52	1xRTT(RC3, SO32(+F-SCH))	0.069	0.037	0.95	23.52	24.00	0.077	2021/7/12
Bottom Side	384/836.52	1xRTT(RC3, SO32(+F-SCH))	0.092	0.051	0.97	23.52	24.00	0.103	2021/7/12

NOTE: Hotspot SAR test results of CDMA Band BC0

10.1.4. SAR measurement Result of CDMA Band BC1

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	600/1880	1xRTT(RC3, SO55)	0.124	0.082	-4.62	23.75	24.00	0.131	2021/7/19
Left Tilt 15	600/1880	1xRTT(RC3,	0.069	0.045	-0.57	23.75	24.00	0.073	2021/7/19

Degree		SO55)							
Right Cheek	600/1880	1xRTT(RC3, SO55)	0.109	0.068	-0.63	23.75	24.00	0.115	2021/7/19
Right Tilt 15 Degree	600/1880	1xRTT(RC3, SO55)	0.053	0.034	3.01	23.75	24.00	0.056	2021/7/19
Left Cheek	600/1880	1xEV-Do Rel.0	0.110	0.075	3.20	23.92	24.00	0.112	2021/7/19
Left Tilt 15 Degree	600/1880	1xEV-Do Rel.0	0.059	0.039	3.37	23.92	24.00	0.060	2021/7/19
Right Cheek	600/1880	1xEV-Do Rel.0	0.093	0.060	1.38	23.92	24.00	0.095	2021/7/19
Right Tilt 15 Degree	600/1880	1xEV-Do Rel.0	0.043	0.028	2.53	23.92	24.00	0.044	2021/7/19

NOTE: Head SAR test results of CDMA Band BC1

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	600/1880	1xRTT(RC3, SO32(+F-SCH))	0.222	0.118	-1.06	23.21	24.00	0.266	2021/7/19
Back Side	600/1880	1xRTT(RC3, SO32(+F-SCH))	0.355	0.198	-3.00	23.21	24.00	0.426	2021/7/19

NOTE: Body-Worn SAR test results of CDMA Band BC1

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	600/1880	1xRTT(RC3, SO32(+F-SCH))	0.222	0.118	-1.06	23.21	24.00	0.266	2021/7/19
Back Side	600/1880	1xRTT(RC3, SO32(+F-SCH))	0.355	0.198	-3.00	23.21	24.00	0.426	2021/7/19
Left Side	600/1880	1xRTT(RC3, SO32(+F-SCH))	0.111	0.059	3.01	23.21	24.00	0.133	2021/7/19
Bottom Side	600/1880	1xRTT(RC3, SO32(+F-SCH))	0.160	0.088	2.36	23.21	24.00	0.192	2021/7/19

NOTE: Hotspot SAR test results of CDMA Band BC1

10.1.5. SAR measurement Result of CDMA Band BC10

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	560/820	1xRTT(RC3, SO55)	0.095	0.062	0.13	23.72	24.00	0.101	2021/7/12
Left Tilt 15 Degree	560/820	1xRTT(RC3, SO55)	0.055	0.034	-2.08	23.72	24.00	0.059	2021/7/12
Right Cheek	560/820	1xRTT(RC3, SO55)	0.081	0.051	1.11	23.72	24.00	0.086	2021/7/12
Right Tilt 15 Degree	560/820	1xRTT(RC3, SO55)	0.042	0.026	0.16	23.72	24.00	0.045	2021/7/12
Left Cheek	560/820	1xEV-Do Rel.0	0.084	0.054	-2.98	23.29	24.00	0.099	2021/7/12
Left Tilt 15 Degree	560/820	1xEV-Do Rel.0	0.044	0.027	-1.39	23.29	24.00	0.052	2021/7/12
Right Cheek	560/820	1xEV-Do Rel.0	0.079	0.050	2.96	23.29	24.00	0.093	2021/7/12
Right Tilt 15 Degree	560/820	1xEV-Do Rel.0	0.038	0.024	-0.12	23.29	24.00	0.045	2021/7/12

NOTE: Head SAR test results of CDMA Band BC10

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	560/820	1xRTT(RC3, SO32(+F-SCH))	0.132	0.072	3.32	23.21	24.00	0.158	2021/7/12
Back Side	560/820	1xRTT(RC3, SO32(+F-SCH))	0.211	0.115	-2.22	23.21	24.00	0.253	2021/7/12

NOTE: Body-Worn SAR test results of CDMA Band BC1

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	560/820	1xRTT(RC3, SO32(+F-SCH))	0.132	0.072	3.32	23.21	24.00	0.158	2021/7/12

Back Side	560/820	1xRTT(RC3, SO32(+F-SCH))	0.211	0.115	-2.22	23.21	24.00	0.253	2021/7/12
Left Side	560/820	1xRTT(RC3, SO32(+F-SCH))	0.078	0.040	-1.78	23.21	24.00	0.094	2021/7/12
Bottom Side	560/820	1xRTT(RC3, SO32(+F-SCH))	0.088	0.047	-2.36	23.21	24.00	0.106	2021/7/12

NOTE: Hotspot SAR test results of CDMA Band BC10

10.1.6. SAR measurement Result of WCDMA 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					
Left Cheek	9400/1880	RMC12.2K	0.138	0.071	4.40	23.47	24.00	0.156	2021/7/19
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.079	0.044	-2.45	23.47	24.00	0.089	2021/7/19
Right Cheek	9400/1880	RMC12.2K	0.119	0.060	0.28	23.47	24.00	0.134	2021/7/19
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.059	0.033	2.45	23.47	24.00	0.067	2021/7/19

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.342	0.164	3.59	23.47	24.00	0.386	2021/7/19
Back Side	9400/1880	RMC12.2K	0.552	0.270	0.29	23.47	24.00	0.624	2021/7/19

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.342	0.164	3.59	23.47	24.00	0.386	2021/7/19
Back Side	9400/1880	RMC12.2K	0.552	0.270	0.29	23.47	24.00	0.624	2021/7/19
Left Side	9400/1880	RMC12.2K	0.171	0.082	-0.28	23.47	24.00	0.193	2021/7/19
Bottom Side	9400/1880	RMC12.2K	0.240	0.113	-3.06	23.47	24.00	0.271	2021/7/19

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.7. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	1413/1732.6	RMC12.2K	0.096	0.054	-2.05	23.03	23.50	0.107	2021/7/15
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.054	0.027	2.95	23.03	23.50	0.060	2021/7/15
Right Cheek	1413/1732.6	RMC12.2K	0.089	0.049	-1.33	23.03	23.50	0.099	2021/7/15
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.047	0.027	-4.80	23.03	23.50	0.052	2021/7/15

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.240	0.115	3.37	23.03	23.50	0.267	2021/7/15
Back Side	1413/1732.6	RMC12.2K	0.370	0.186	0.59	23.03	23.50	0.412	2021/7/15

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.240	0.115	3.37	23.03	23.50	0.267	2021/7/15
Back Side	1413/1732.6	RMC12.2K	0.370	0.186	0.59	23.03	23.50	0.412	2021/7/15
Left Side	1413/1732.6	RMC12.2K	0.120	0.060	-3.24	23.03	23.50	0.134	2021/7/15
Bottom Side	1413/1732.6	RMC12.2K	0.148	0.074	1.79	23.03	23.50	0.165	2021/7/15

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.8. SAR measurement Result of WCDMA Band 5

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

Left Cheek	4182/836.4	RMC12.2K	0.196	0.153	1.02	23.12	23.50	0.214	2021/7/12
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.116	0.093	2.54	23.12	23.50	0.127	2021/7/12
Right Cheek	4182/836.4	RMC12.2K	0.171	0.133	-4.58	23.12	23.50	0.187	2021/7/12
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.079	0.061	-1.24	23.12	23.50	0.086	2021/7/12

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.150	0.111	2.09	23.12	23.50	0.164	2021/7/12
Back Side	4182/836.4	RMC12.2K	0.223	0.172	0.14	23.12	23.50	0.243	2021/7/12

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.150	0.111	2.09	23.12	23.50	0.164	2021/7/12
Back Side	4182/836.4	RMC12.2K	0.223	0.172	0.14	23.12	23.50	0.243	2021/7/12
Left Side	4182/836.4	RMC12.2K	0.069	0.053	-2.29	23.12	23.50	0.075	2021/7/12
Bottom Side	4182/836.4	RMC12.2K	0.096	0.072	3.20	23.12	23.50	0.105	2021/7/12

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.9. 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(1,49)	0.212	0.124	1.65	23.00	23.00	0.212	2021/7/19
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.122	0.072	0.14	23.00	23.00	0.122	2021/7/19
Right Cheek	18900/1880	20M QPSK(1,49)	0.200	0.116	-2.14	23.00	23.00	0.200	2021/7/19
Right	18900/1880	20M	0.107	0.060	-2.01	23.00	23.00	0.107	2021/7/19

Tilt 15 Degree		QPSK(1,49)							
50%RB									
Left Cheek	18900/1880	20M QPSK(50,0)	0.110	0.066	1.63	22.56	23.00	0.122	2021/7/19
Left Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.070	0.038	1.11	22.56	23.00	0.077	2021/7/19
Right Cheek	18900/1880	20M QPSK(50,0)	0.112	0.068	2.97	22.56	23.00	0.124	2021/7/19
Right Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.058	0.032	-3.01	22.56	23.00	0.064	2021/7/19

NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.408	0.227	-2.35	23.00	23.00	0.408	2021/7/19
Back Side	18900/1880	20M QPSK(1,49)	0.653	0.370	-0.11	23.00	23.00	0.653	2021/7/19
50%RB									
Front Side	18900/1880	20M QPSK(50,0)	0.236	0.117	2.62	22.56	23.00	0.261	2021/7/19
Back Side	18900/1880	20M QPSK(50,0)	0.354	0.193	1.23	22.56	23.00	0.392	2021/7/19

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.408	0.227	-2.35	23.00	23.00	0.408	2021/7/19
Back	18900/1880	20M	0.653	0.370	-0.11	23.00	23.00	0.653	2021/7/19

Side		QPSK(1,49)							
Left Side	18900/1880	20M QPSK(1,49)	0.198	0.110	-0.76	23.00	23.00	0.198	2021/7/19
Bottom Side	18900/1880	20M QPSK(1,49)	0.268	0.144	2.98	23.00	23.00	0.268	2021/7/19
50%RB									
Front Side	18900/1880	20M QPSK(50,0)	0.236	0.117	2.62	22.56	23.00	0.261	2021/7/19
Back Side	18900/1880	20M QPSK(50,0)	0.354	0.193	1.23	22.56	23.00	0.392	2021/7/19
Left Side	18900/1880	20M QPSK(50,0)	0.112	0.064	-3.12	22.56	23.00	0.124	2021/7/19
Bottom Side	18900/1880	20M QPSK(50,0)	0.146	0.084	1.32	22.56	23.00	0.162	2021/7/19

NOTE: Hotspot SAR test results of LTE Band 2

10.1.10. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	20175/1732.5	20M QPSK(1,0)	0.136	0.087	0.01	22.44	23.00	0.155	2021/7/15
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,0)	0.074	0.049	3.71	22.44	23.00	0.084	2021/7/15
Right Cheek	20175/1732.5	20M QPSK(1,0)	0.123	0.082	-2.43	22.44	23.00	0.140	2021/7/15
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,0)	0.057	0.039	-1.35	22.44	23.00	0.065	2021/7/15
50%RB									
Left Cheek	20175/1732.5	20M QPSK(50,0)	0.079	0.045	-4.04	22.08	22.50	0.087	2021/7/15
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.038	0.026	3.39	22.08	22.50	0.042	2021/7/15
Right Cheek	20175/1732.5	20M QPSK(50,0)	0.071	0.041	-2.75	22.08	22.50	0.078	2021/7/15

Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.031	0.020	4.73	22.08	22.50	0.034	2021/7/15

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20175/1732.5	20M QPSK(1,0)	0.228	0.132	2.53	22.44	23.00	0.259	2021/7/15
Back Side	20175/1732.5	20M QPSK(1,0)	0.354	0.213	-0.79	22.44	23.00	0.403	2021/7/15
50%RB									
Front Side	20175/1732.5	20M QPSK(50,0)	0.135	0.076	-0.09	22.08	22.50	0.149	2021/7/15
Back Side	20175/1732.5	20M QPSK(50,0)	0.184	0.122	4.09	22.08	22.50	0.203	2021/7/15

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20175/1732.5	20M QPSK(1,0)	0.228	0.132	2.53	22.44	23.00	0.259	2021/7/15
Back Side	20175/1732.5	20M QPSK(1,0)	0.354	0.213	-0.79	22.44	23.00	0.403	2021/7/15
Left Side	20175/1732.5	20M QPSK(1,0)	0.111	0.065	-1.54	22.44	23.00	0.126	2021/7/15
Bottom Side	20175/1732.5	20M QPSK(1,0)	0.156	0.090	-2.02	22.44	23.00	0.177	2021/7/15
50%RB									
Front Side	20175/1732.5	20M QPSK(50,0)	0.135	0.076	-0.09	22.08	22.50	0.149	2021/7/15
Back Side	20175/1732.5	20M QPSK(50,0)	0.184	0.122	4.09	22.08	22.50	0.203	2021/7/15

Left Side	20175/1732.5	20M QPSK(50,0)	0.063	0.034	0.11	22.08	22.50	0.069	2021/7/15
Bottom Side	20175/1732.5	20M QPSK(50,0)	0.092	0.046	2.23	22.08	22.50	0.101	2021/7/15

NOTE: Hotspot SAR test results of LTE Band 4

10.1.11. 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(1,49)	0.219	0.172	-0.55	22.25	22.50	0.232	2021/7/12
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,49)	0.125	0.097	1.35	22.25	22.50	0.132	2021/7/12
Right Cheek	20525/836.5	10M QPSK(1,49)	0.205	0.156	2.96	22.25	22.50	0.217	2021/7/12
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,49)	0.108	0.083	-0.60	22.25	22.50	0.114	2021/7/12
50%RB									
Left Cheek	20525/836.5	10M QPSK(25,24)	0.123	0.101	4.72	21.76	22.00	0.130	2021/7/12
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.065	0.054	-0.87	21.76	22.00	0.069	2021/7/12
Right Cheek	20525/836.5	10M QPSK(25,24)	0.121	0.092	-2.64	21.76	22.00	0.128	2021/7/12
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.056	0.042	2.90	21.76	22.00	0.059	2021/7/12

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20525/836.5	10M	0.126	0.091	-2.05	22.25	22.50	0.133	2021/7/12

		QPSK(1,49)							
Back Side	20525/836.5	10M QPSK(1,49)	0.196	0.148	1.55	22.25	22.50	0.208	2021/7/12
50%RB									
Front Side	20525/836.5	10M QPSK(25,24)	0.075	0.050	4.19	21.76	22.00	0.079	2021/7/12
Back Side	20525/836.5	10M QPSK(25,24)	0.113	0.078	4.71	21.76	22.00	0.119	2021/7/12

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,49)	0.126	0.091	-2.05	22.25	22.50	0.133	2021/7/12
Back Side	20525/836.5	10M QPSK(1,49)	0.196	0.148	1.55	22.25	22.50	0.208	2021/7/12
Left Side	20525/836.5	10M QPSK(1,49)	0.069	0.049	3.85	22.25	22.50	0.073	2021/7/12
Bottom Side	20525/836.5	10M QPSK(1,49)	0.092	0.069	3.68	22.25	22.50	0.097	2021/7/12
50%RB									
Front Side	20525/836.5	10M QPSK(25,24)	0.075	0.050	4.19	21.76	22.00	0.079	2021/7/12
Back Side	20525/836.5	10M QPSK(25,24)	0.113	0.078	4.71	21.76	22.00	0.119	2021/7/12
Left Side	20525/836.5	10M QPSK(25,24)	0.036	0.028	4.81	21.76	22.00	0.038	2021/7/12
Bottom Side	20525/836.5	10M QPSK(25,24)	0.053	0.038	-4.90	21.76	22.00	0.056	2021/7/12

NOTE: Hotspot SAR test results of LTE Band 5

10.1.12. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	21100/2535	20M QPSK(1,0)	0.217	0.120	1.92	22.45	22.50	0.220	2021/7/17

Left Tilt 15 Degree	21100/2535	20M QPSK(1,0)	0.123	0.066	-3.56	22.45	22.50	0.124	2021/7/17
Right Cheek	21100/2535	20M QPSK(1,0)	0.185	0.100	-2.97	22.45	22.50	0.187	2021/7/17
Right Tilt 15 Degree	21100/2535	20M QPSK(1,0)	0.095	0.056	-0.26	22.45	22.50	0.096	2021/7/17
50%RB									
Left Cheek	21100/2535	20M QPSK(50,0)	0.125	0.064	3.18	22.07	22.50	0.138	2021/7/17
Left Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.065	0.037	-4.59	22.07	22.50	0.072	2021/7/17
Right Cheek	21100/2535	20M QPSK(50,0)	0.110	0.051	-1.47	22.07	22.50	0.121	2021/7/17
Right Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.048	0.031	-1.27	22.07	22.50	0.053	2021/7/17

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	21100/2535	20M QPSK(1,0)	0.426	0.200	2.97	22.45	22.50	0.431	2021/7/17
Back Side	21100/2535	20M QPSK(1,0)	0.682	0.334	-0.71	22.45	22.50	0.690	2021/7/17
50%RB									
Front Side	21100/2535	20M QPSK(50,0)	0.247	0.114	-1.87	22.07	22.50	0.273	2021/7/17
Back Side	21100/2535	20M QPSK(50,0)	0.400	0.176	-2.31	22.07	22.50	0.442	2021/7/17

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

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

with 10mm									
1RB									
Front Side	21100/2535	20M QPSK(1,0)	0.426	0.200	2.97	22.45	22.50	0.431	2021/7/17
Back Side	21100/2535	20M QPSK(1,0)	0.682	0.334	-0.71	22.45	22.50	0.690	2021/7/17
Left Side	21100/2535	20M QPSK(1,0)	0.219	0.104	-3.71	22.45	22.50	0.222	2021/7/17
Bottom Side	21100/2535	20M QPSK(1,0)	0.276	0.132	-1.69	22.45	22.50	0.279	2021/7/17
50%RB									
Front Side	21100/2535	20M QPSK(50,0)	0.247	0.114	-1.87	22.07	22.50	0.273	2021/7/17
Back Side	21100/2535	20M QPSK(50,0)	0.400	0.176	-2.31	22.07	22.50	0.442	2021/7/17
Left Side	21100/2535	20M QPSK(50,0)	0.112	0.061	-4.74	22.07	22.50	0.124	2021/7/17
Bottom Side	21100/2535	20M QPSK(50,0)	0.153	0.075	4.88	22.07	22.50	0.169	2021/7/17

NOTE: Hotspot SAR test results of LTE Band 7

10.1.13. SAR measurement Result of LTE Band 12

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	23095/707.5	10M QPSK(1,0)	0.237	0.193	1.92	22.96	23.50	0.268	2021/7/07
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.121	0.096	-3.97	22.96	23.50	0.137	2021/7/07
Right Cheek	23095/707.5	10M QPSK(1,0)	0.202	0.168	0.87	22.96	23.50	0.229	2021/7/07
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.106	0.085	3.58	22.96	23.50	0.120	2021/7/07
50%RB									
Left	23095/707.5	10M	0.120	0.097	4.26	22.13	22.50	0.131	2021/7/07

Cheek		QPSK(25,0)							
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.065	0.053	-2.34	22.13	22.50	0.071	2021/7/07
Right Cheek	23095/707.5	10M QPSK(25,0)	0.116	0.085	3.11	22.13	22.50	0.126	2021/7/07
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.062	0.049	1.17	22.13	22.50	0.068	2021/7/07

NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,0)	0.138	0.108	-1.95	22.96	23.50	0.156	2021/7/07
Back Side	23095/707.5	10M QPSK(1,0)	0.209	0.170	0.35	22.96	23.50	0.237	2021/7/07
50%RB									
Front Side	23095/707.5	10M QPSK(25,0)	0.075	0.058	4.06	22.13	22.50	0.082	2021/7/07
Back Side	23095/707.5	10M QPSK(25,0)	0.113	0.098	-3.32	22.13	22.50	0.123	2021/7/07

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,0)	0.138	0.108	-1.95	22.96	23.50	0.156	2021/7/07
Back Side	23095/707.5	10M QPSK(1,0)	0.209	0.170	0.35	22.96	23.50	0.237	2021/7/07
Left Side	23095/707.5	10M QPSK(1,0)	0.063	0.050	3.08	22.96	23.50	0.071	2021/7/07
Bottom	23095/707.5	10M	0.088	0.068	-1.35	22.96	23.50	0.100	2021/7/07

Side		QPSK(1,0)							
50%RB									
Front Side	23095/707.5	10M QPSK(25,0)	0.075	0.058	4.06	22.13	22.50	0.082	2021/7/07
Back Side	23095/707.5	10M QPSK(25,0)	0.113	0.098	-3.32	22.13	22.50	0.123	2021/7/07
Left Side	23095/707.5	10M QPSK(25,0)	0.034	0.026	-4.59	22.13	22.50	0.037	2021/7/07
Bottom Side	23095/707.5	10M QPSK(25,0)	0.052	0.035	-1.59	22.13	22.50	0.057	2021/7/07

NOTE: Hotspot SAR test results of LTE Band 12

10.1.14. SAR measurement Result of LTE Band 13

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	23230/782	10M QPSK(1,24)	0.233	0.187	-1.96	22.73	23.00	0.248	2021/7/07
Left Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.137	0.113	0.44	22.73	23.00	0.146	2021/7/07
Right Cheek	23230/782	10M QPSK(1,24)	0.217	0.175	-1.22	22.73	23.00	0.231	2021/7/07
Right Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.100	0.081	-2.21	22.73	23.00	0.106	2021/7/07
50%RB									
Left Cheek	23230/782	10M QPSK(25,24)	0.133	0.106	-1.07	21.75	22.00	0.141	2021/7/07
Left Tilt 15 Degree	23230/782	10M QPSK(25,24)	0.069	0.057	0.87	21.75	22.00	0.073	2021/7/07
Right Cheek	23230/782	10M QPSK(25,24)	0.113	0.101	0.24	21.75	22.00	0.120	2021/7/07
Right Tilt 15 Degree	23230/782	10M QPSK(25,24)	0.051	0.048	2.78	21.75	22.00	0.054	2021/7/07

NOTE: Head SAR test results of LTE Band 13

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23230/782	10M QPSK(1,24)	0.144	0.106	0.93	22.73	23.00	0.153	2021/7/07
Back Side	23230/782	10M QPSK(1,24)	0.230	0.179	-0.39	22.73	23.00	0.245	2021/7/07
50%RB									
Front Side	23230/782	10M QPSK(25,24)	0.080	0.061	0.69	21.75	22.00	0.085	2021/7/07
Back Side	23230/782	10M QPSK(25,24)	0.132	0.099	-1.66	21.75	22.00	0.140	2021/7/07

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23230/782	10M QPSK(1,24)	0.144	0.106	0.93	22.73	23.00	0.153	2021/7/07
Back Side	23230/782	10M QPSK(1,24)	0.230	0.179	-0.39	22.73	23.00	0.245	2021/7/07
Left Side	23230/782	10M QPSK(1,24)	0.078	0.059	-3.56	22.73	23.00	0.083	2021/7/07
Bottom Side	23230/782	10M QPSK(1,24)	0.112	0.085	-1.21	22.73	23.00	0.119	2021/7/07
50%RB									
Front Side	23230/782	10M QPSK(25,24)	0.080	0.061	0.69	21.75	22.00	0.085	2021/7/07
Back Side	23230/782	10M QPSK(25,24)	0.132	0.099	-1.66	21.75	22.00	0.140	2021/7/07
Left Side	23230/782	10M QPSK(25,24)	0.042	0.033	1.54	21.75	22.00	0.044	2021/7/07
Bottom Side	23230/782	10M QPSK(25,24)	0.066	0.046	-0.49	21.75	22.00	0.070	2021/7/07

NOTE: Hotspot SAR test results of LTE Band 13

10.1.15. 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(1,0)	0.203	0.168	-0.54	22.48	23.00	0.229	2021/7/07
Left Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.122	0.099	2.32	22.48	23.00	0.138	2021/7/07
Right Cheek	23790/710	10M QPSK(1,0)	0.189	0.155	-0.41	22.48	23.00	0.213	2021/7/07
Right Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.094	0.082	3.63	22.48	23.00	0.106	2021/7/07
50%RB									
Left Cheek	23790/710	10M QPSK(25,0)	0.110	0.086	1.19	21.96	22.00	0.111	2021/7/07
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.068	0.055	2.30	21.96	22.00	0.069	2021/7/07
Right Cheek	23790/710	10M QPSK(25,0)	0.104	0.091	-4.61	21.96	22.00	0.105	2021/7/07
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.054	0.044	-0.65	21.96	22.00	0.054	2021/7/07

NOTE: Head SAR test results of LTE Band17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,0)	0.138	0.107	1.96	22.48	23.00	0.156	2021/7/07
Back Side	23790/710	10M QPSK(1,0)	0.226	0.180	0.12	22.48	23.00	0.255	2021/7/07
50%RB									

Front Side	23790/710	10M QPSK(25,0)	0.080	0.058	1.84	21.96	22.00	0.081	2021/7/07
Back Side	23790/710	10M QPSK(25,0)	0.128	0.106	-3.31	21.96	22.00	0.129	2021/7/07

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,0)	0.138	0.107	1.96	22.48	23.00	0.156	2021/7/07
Back Side	23790/710	10M QPSK(1,0)	0.226	0.180	0.12	22.48	23.00	0.255	2021/7/07
Left Side	23790/710	10M QPSK(1,0)	0.075	0.059	-3.71	22.48	23.00	0.085	2021/7/07
Bottom Side	23790/710	10M QPSK(1,0)	0.096	0.076	1.29	22.48	23.00	0.108	2021/7/07
50%RB									
Front Side	23790/710	10M QPSK(25,0)	0.080	0.058	1.84	21.96	22.00	0.081	2021/7/07
Back Side	23790/710	10M QPSK(25,0)	0.128	0.106	-3.31	21.96	22.00	0.129	2021/7/07
Left Side	23790/710	10M QPSK(25,0)	0.038	0.034	-4.85	21.96	22.00	0.038	2021/7/07
Bottom Side	23790/710	10M QPSK(25,0)	0.051	0.044	-3.40	21.96	22.00	0.051	2021/7/07

NOTE: Hotspot SAR test results of LTE Band 17

10.1.16. SAR measurement Result of LTE Band 18

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	23925/822.5	15M QPSK(1,37)	0.180	0.143	2.05	22.76	23.00	0.190	2021/7/12

Left Tilt 15 Degree	23925/822.5	15M QPSK(1,37)	0.095	0.079	3.89	22.76	23.00	0.100	2021/7/12
Right Cheek	23925/822.5	15M QPSK(1,37)	0.164	0.134	-2.10	22.76	23.00	0.173	2021/7/12
Right Tilt 15 Degree	23925/822.5	15M QPSK(1,37)	0.076	0.063	2.23	22.76	23.00	0.080	2021/7/12
50%RB									
Left Cheek	23925/822.5	15M QPSK(36,37)	0.105	0.075	-2.59	21.77	22.00	0.111	2021/7/12
Left Tilt 15 Degree	23925/822.5	15M QPSK(36,37)	0.049	0.043	-4.25	21.77	22.00	0.052	2021/7/12
Right Cheek	23925/822.5	15M QPSK(36,37)	0.088	0.068	3.38	21.77	22.00	0.093	2021/7/12
Right Tilt 15 Degree	23925/822.5	15M QPSK(36,37)	0.039	0.037	-4.84	21.77	22.00	0.041	2021/7/12

NOTE: Head SAR test results of LTE Band18

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	23925/822.5	15M QPSK(1,37)	0.120	0.089	3.28	22.76	23.00	0.127	2021/7/12
Back Side	23925/822.5	15M QPSK(1,37)	0.169	0.131	0.03	22.76	23.00	0.179	2021/7/12
50%RB									
Front Side	23925/822.5	15M QPSK(36,37)	0.069	0.053	3.04	21.77	22.00	0.073	2021/7/12
Back Side	23925/822.5	15M QPSK(36,37)	0.099	0.072	4.92	21.77	22.00	0.104	2021/7/12

NOTE: Body-Worn SAR test results of LTE Band 18

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

with 10mm									
1RB									
Front Side	23925/822.5	15M QPSK(1,37)	0.120	0.089	3.28	22.76	23.00	0.127	2021/7/12
Back Side	23925/822.5	15M QPSK(1,37)	0.169	0.131	0.03	22.76	23.00	0.179	2021/7/12
Left Side	23925/822.5	15M QPSK(1,37)	0.060	0.045	2.87	22.76	23.00	0.063	2021/7/12
Bottom Side	23925/822.5	15M QPSK(1,37)	0.068	0.051	-2.45	22.76	23.00	0.072	2021/7/12
50%RB									
Front Side	23925/822.5	15M QPSK(36,37)	0.069	0.053	3.04	21.77	22.00	0.073	2021/7/12
Back Side	23925/822.5	15M QPSK(36,37)	0.099	0.072	4.92	21.77	22.00	0.104	2021/7/12
Left Side	23925/822.5	15M QPSK(36,37)	0.033	0.027	0.82	21.77	22.00	0.035	2021/7/12
Bottom Side	23925/822.5	15M QPSK(36,37)	0.038	0.030	-2.01	21.77	22.00	0.040	2021/7/12

NOTE: Hotspot SAR test results of LTE Band 18

10.1.17. SAR measurement Result of LTE Band 19

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	24075/837.5	15M QPSK(1,0)	0.215	0.170	-1.18	22.59	23.00	0.236	2021/7/12
Left Tilt 15 Degree	24075/837.5	15M QPSK(1,0)	0.119	0.090	-4.52	22.59	23.00	0.131	2021/7/12
Right Cheek	24075/837.5	15M QPSK(1,0)	0.198	0.153	-4.56	22.59	23.00	0.218	2021/7/12
Right Tilt 15 Degree	24075/837.5	15M QPSK(1,0)	0.095	0.077	-1.24	22.59	23.00	0.104	2021/7/12
50%RB									
Left	24075/837.5	15M	0.127	0.099	4.90	21.70	22.00	0.136	2021/7/12

Cheek		QPSK(36,0)							
Left Tilt 15 Degree	24075/837.5	15M QPSK(36,0)	0.068	0.045	-0.49	21.70	22.00	0.073	2021/7/12
Right Cheek	24075/837.5	15M QPSK(36,0)	0.107	0.090	1.98	21.70	22.00	0.115	2021/7/12
Right Tilt 15 Degree	24075/837.5	15M QPSK(36,0)	0.054	0.042	0.17	21.70	22.00	0.058	2021/7/12

NOTE: Head SAR test results of LTE Band19

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	24075/837.5	15M QPSK(1,0)	0.138	0.088	0.54	22.59	23.00	0.152	2021/7/12
Back Side	24075/837.5	15M QPSK(1,0)	0.201	0.134	-0.43	22.59	23.00	0.221	2021/7/12
50%RB									
Front Side	24075/837.5	15M QPSK(36,0)	0.077	0.049	1.02	21.70	22.00	0.083	2021/7/12
Back Side	24075/837.5	15M QPSK(36,0)	0.108	0.072	2.56	21.70	22.00	0.116	2021/7/12

NOTE: Body-Worn SAR test results of LTE Band 19

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	24075/837.5	15M QPSK(1,0)	0.138	0.088	0.54	22.59	23.00	0.152	2021/7/12
Back Side	24075/837.5	15M QPSK(1,0)	0.201	0.134	-0.43	22.59	23.00	0.221	2021/7/12
Left Side	24075/837.5	15M QPSK(1,0)	0.072	0.048	-3.74	22.59	23.00	0.079	2021/7/12
Bottom	24075/837.5	15M	0.100	0.065	0.23	22.59	23.00	0.110	2021/7/12

Side		QPSK(1,0)							
50%RB									
Front Side	24075/837.5	15M QPSK(36,0)	0.077	0.049	1.02	21.70	22.00	0.083	2021/7/12
Back Side	24075/837.5	15M QPSK(36,0)	0.108	0.072	2.56	21.70	22.00	0.116	2021/7/12
Left Side	24075/837.5	15M QPSK(36,0)	0.042	0.027	2.27	21.70	22.00	0.045	2021/7/12
Bottom Side	24075/837.5	15M QPSK(36,0)	0.051	0.033	0.96	21.70	22.00	0.055	2021/7/12

NOTE: Hotspot SAR test results of LTE Band 19

10.1.18. SAR measurement Result of LTE Band 25

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	26365/1882.5	20M QPSK(1,49)	0.233	0.135	0.57	21.69	22.00	0.250	2021/7/19
Left Tilt 15 Degree	26365/1882.5	20M QPSK(1,49)	0.127	0.072	-0.98	21.69	22.00	0.136	2021/7/19
Right Cheek	26365/1882.5	20M QPSK(1,49)	0.215	0.130	-2.65	21.69	22.00	0.231	2021/7/19
Right Tilt 15 Degree	26365/1882.5	20M QPSK(1,49)	0.100	0.061	4.15	21.69	22.00	0.107	2021/7/19
50%RB									
Left Cheek	26365/1882.5	20M QPSK(50,0)	0.128	0.070	-1.07	20.70	21.00	0.137	2021/7/19
Left Tilt 15 Degree	26365/1882.5	20M QPSK(50,0)	0.069	0.039	0.14	20.70	21.00	0.074	2021/7/19
Right Cheek	26365/1882.5	20M QPSK(50,0)	0.116	0.075	-0.47	20.70	21.00	0.124	2021/7/19
Right Tilt 15 Degree	26365/1882.5	20M QPSK(50,0)	0.054	0.034	0.12	20.70	21.00	0.058	2021/7/19

NOTE: Head SAR test results of LTE Band 25

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	26365/1882.5	20M QPSK(1,49)	0.384	0.211	-3.13	21.69	22.00	0.412	2021/7/19
Back Side	26365/1882.5	20M QPSK(1,49)	0.638	0.358	-1.03	21.69	22.00	0.685	2021/7/19
50%RB									
Front Side	26365/1882.5	20M QPSK(50,0)	0.194	0.126	-1.55	20.70	21.00	0.208	2021/7/19
Back Side	26365/1882.5	20M QPSK(50,0)	0.383	0.207	-1.96	20.70	21.00	0.410	2021/7/19

NOTE: Body-Worn SAR test results of LTE Band 25

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	26365/1882.5	20M QPSK(1,49)	0.384	0.211	-3.13	21.69	22.00	0.412	2021/7/19
Back Side	26365/1882.5	20M QPSK(1,49)	0.638	0.358	-1.03	21.69	22.00	0.685	2021/7/19
Left Side	26365/1882.5	20M QPSK(1,49)	0.198	0.111	2.63	21.69	22.00	0.213	2021/7/19
Bottom Side	26365/1882.5	20M QPSK(1,49)	0.260	0.146	2.26	21.69	22.00	0.279	2021/7/19
50%RB									
Front Side	26365/1882.5	20M QPSK(50,0)	0.194	0.126	-1.55	20.70	21.00	0.208	2021/7/19
Back Side	26365/1882.5	20M QPSK(50,0)	0.383	0.207	-1.96	20.70	21.00	0.410	2021/7/19
Left Side	26365/1882.5	20M QPSK(50,0)	0.115	0.066	-0.73	20.70	21.00	0.123	2021/7/19
Bottom Side	26365/1882.5	20M QPSK(50,0)	0.139	0.074	-3.67	20.70	21.00	0.149	2021/7/19

NOTE: Head SAR test results of LTE Band 25

10.1.19. SAR measurement Result of LTE Band 26A

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	26740/819	10M QPSK(1,24)	0.199	0.159	1.33	22.78	23.00	0.209	2021/7/12
Left Tilt 15 Degree	26740/819	10M QPSK(1,24)	0.107	0.084	2.18	22.78	23.00	0.113	2021/7/12
Right Cheek	26740/819	10M QPSK(1,24)	0.181	0.147	-3.80	22.78	23.00	0.190	2021/7/12
Right Tilt 15 Degree	26740/819	10M QPSK(1,24)	0.083	0.064	-2.82	22.78	23.00	0.087	2021/7/12
50%RB									
Left Cheek	26740/819	10M QPSK(25,24)	0.105	0.095	2.30	21.86	22.00	0.108	2021/7/12
Left Tilt 15 Degree	26740/819	10M QPSK(25,24)	0.062	0.047	2.34	21.86	22.00	0.064	2021/7/12
Right Cheek	26740/819	10M QPSK(25,24)	0.097	0.074	4.42	21.86	22.00	0.100	2021/7/12
Right Tilt 15 Degree	26740/819	10M QPSK(25,24)	0.045	0.037	-1.16	21.86	22.00	0.046	2021/7/12

NOTE: Head SAR test results of LTE Band 26A

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	26740/819	10M QPSK(1,24)	0.120	0.089	-0.50	22.78	23.00	0.126	2021/7/12
Back Side	26740/819	10M QPSK(1,24)	0.185	0.144	-0.05	22.78	23.00	0.195	2021/7/12

50%RB									
Front Side	26740/819	10M QPSK(25,24)	0.068	0.052	3.65	21.86	22.00	0.070	2021/7/12
Back Side	26740/819	10M QPSK(25,24)	0.101	0.085	-4.39	21.86	22.00	0.104	2021/7/12

NOTE: Body-Worn SAR test results of LTE Band 26A

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	26740/819	10M QPSK(1,24)	0.120	0.089	-0.50	22.78	23.00	0.126	2021/7/12
Back Side	26740/819	10M QPSK(1,24)	0.185	0.144	-0.05	22.78	23.00	0.195	2021/7/12
Left Side	26740/819	10M QPSK(1,24)	0.063	0.047	0.11	22.78	23.00	0.066	2021/7/12
Bottom Side	26740/819	10M QPSK(1,24)	0.092	0.072	2.56	22.78	23.00	0.097	2021/7/12
50%RB									
Front Side	26740/819	10M QPSK(25,24)	0.068	0.052	3.65	21.86	22.00	0.070	2021/7/12
Back Side	26740/819	10M QPSK(25,24)	0.101	0.085	-4.39	21.86	22.00	0.104	2021/7/12
Left Side	26740/819	10M QPSK(25,24)	0.034	0.027	4.31	21.86	22.00	0.035	2021/7/12
Bottom Side	26740/819	10M QPSK(25,24)	0.055	0.038	-1.98	21.86	22.00	0.057	2021/7/12

NOTE: Hotspot SAR test results of LTE Band 26A

10.1.20. SAR measurement Result of LTE Band 26B

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	26915/836.5	15M	0.132	0.089	2.33	22.27	22.50	0.139	2021/7/12

Cheek		QPSK(1,0)							
Left Tilt 15 Degree	26915/836.5	15M QPSK(1,0)	0.067	0.048	1.79	22.27	22.50	0.071	2021/7/12
Right Cheek	26915/836.5	15M QPSK(1,0)	0.122	0.080	-0.01	22.27	22.50	0.129	2021/7/12
Right Tilt 15 Degree	26915/836.5	15M QPSK(1,0)	0.065	0.044	4.94	22.27	22.50	0.069	2021/7/12
50%RB									
Left Cheek	26915/836.5	15M QPSK(36,0)	0.075	0.046	-0.65	21.70	22.00	0.080	2021/7/12
Left Tilt 15 Degree	26915/836.5	15M QPSK(36,0)	0.035	0.028	3.21	21.70	22.00	0.038	2021/7/12
Right Cheek	26915/836.5	15M QPSK(36,0)	0.071	0.047	1.03	21.70	22.00	0.076	2021/7/12
Right Tilt 15 Degree	26915/836.5	15M QPSK(36,0)	0.036	0.023	3.82	21.70	22.00	0.039	2021/7/12

NOTE: Head SAR test results of LTE Band 26B

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	26915/836.5	15M QPSK(1,0)	0.258	0.142	0.16	22.27	22.50	0.272	2021/7/12
Back Side	26915/836.5	15M QPSK(1,0)	0.384	0.218	1.06	22.27	22.50	0.405	2021/7/12
50%RB									
Front Side	26915/836.5	15M QPSK(36,0)	0.144	0.084	-0.87	21.70	22.00	0.154	2021/7/12
Back Side	26915/836.5	15M QPSK(36,0)	0.209	0.115	2.07	21.70	22.00	0.224	2021/7/12

NOTE: Body-Worn SAR test results of LTE Band 26B

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

1RB									
Front Side	26915/836.5	15M QPSK(1,0)	0.258	0.142	0.16	22.27	22.50	0.272	2021/7/12
Back Side	26915/836.5	15M QPSK(1,0)	0.384	0.218	1.06	22.27	22.50	0.405	2021/7/12
Left Side	26915/836.5	15M QPSK(1,0)	0.120	0.066	3.13	22.27	22.50	0.127	2021/7/12
Bottom Side	26915/836.5	15M QPSK(1,0)	0.160	0.091	1.51	22.27	22.50	0.169	2021/7/12
50%RB									
Front Side	26915/836.5	15M QPSK(36,0)	0.144	0.084	-0.87	21.70	22.00	0.154	2021/7/12
Back Side	26915/836.5	15M QPSK(36,0)	0.209	0.115	2.07	21.70	22.00	0.224	2021/7/12
Left Side	26915/836.5	15M QPSK(36,0)	0.062	0.034	-4.36	21.70	22.00	0.066	2021/7/12
Bottom Side	26915/836.5	15M QPSK(36,0)	0.083	0.047	-0.43	21.70	22.00	0.089	2021/7/12

NOTE: Hotspot SAR test results of LTE Band 26B

10.1.21. SAR measurement Result of LTE Band 41

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	40620/2593	20M QPSK(1,0)	0.099	0.062	0.68	21.54	22.50	0.123	2021/7/17
Left Tilt 15 Degree	40620/2593	20M QPSK(1,0)	0.052	0.028	-1.47	21.54	22.50	0.065	2021/7/17
Right Cheek	40620/2593	20M QPSK(1,0)	0.088	0.056	1.12	21.54	22.50	0.110	2021/7/17
Right Tilt 15 Degree	40620/2593	20M QPSK(1,0)	0.042	0.025	2.13	21.54	22.50	0.052	2021/7/17
50%RB									
Left Cheek	40620/2593	20M QPSK(50,0)	0.052	0.033	-3.39	20.47	21.50	0.066	2021/7/17
Left Tilt 15	40620/2593	20M QPSK(50,0)	0.030	0.015	-1.45	20.47	21.50	0.038	2021/7/17

Degree									
Right Cheek	40620/2593	20M QPSK(50,0)	0.051	0.030	0.40	20.47	21.50	0.065	2021/7/17
Right Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.023	0.014	-3.68	20.47	21.50	0.029	2021/7/17

NOTE: Head SAR test results of LTE Band 41

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	40620/2593	20M QPSK(1,0)	0.138	0.072	-2.44	21.54	22.50	0.172	2021/7/17
Back Side	40620/2593	20M QPSK(1,0)	0.221	0.117	-0.34	21.54	22.50	0.276	2021/7/17
50%RB									
Front Side	40620/2593	20M QPSK(50,0)	0.076	0.038	3.87	20.47	21.50	0.096	2021/7/17
Back Side	40620/2593	20M QPSK(50,0)	0.123	0.062	-1.99	20.47	21.50	0.156	2021/7/17

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	40620/2593	20M QPSK(1,0)	0.138	0.072	-2.44	21.54	22.50	0.172	2021/7/17
Back Side	40620/2593	20M QPSK(1,0)	0.221	0.117	-0.34	21.54	22.50	0.276	2021/7/17
Left Side	40620/2593	20M QPSK(1,0)	0.069	0.036	3.19	21.54	22.50	0.086	2021/7/17
Bottom Side	40620/2593	20M QPSK(1,0)	0.096	0.051	-1.66	21.54	22.50	0.120	2021/7/17
50%RB									
Front	40620/2593	20M	0.076	0.038	3.87	20.47	21.50	0.096	2021/7/17

Side		QPSK(50,0)							
Back Side	40620/2593	20M QPSK(50,0)	0.123	0.062	-1.99	20.47	21.50	0.156	2021/7/17
Left Side	40620/2593	20M QPSK(50,0)	0.041	0.021	1.85	20.47	21.50	0.052	2021/7/17
Bottom Side	40620/2593	20M QPSK(50,0)	0.055	0.029	4.12	20.47	21.50	0.070	2021/7/17

NOTE: Head SAR test results of LTE Band 41

10.1.22. 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)	0.435	0.227	0.35	23.35	23.50	0.450	2021/7/17
Left Tilt 15 Degree	518598/ 2592.99	100M QPSK(1,1)	0.255	0.133	1.85	23.35	23.50	0.264	2021/7/17
Right Cheek	518598/ 2592.99	100M QPSK(1,1)	0.374	0.193	-3.27	23.35	23.50	0.387	2021/7/17
Right Tilt 15 Degree	518598/ 2592.99	100M QPSK(1,1)	0.169	0.086	-2.64	23.35	23.50	0.175	2021/7/17
50%RB									
Left Cheek	518598/ 2592.99	100M QPSK(135,67)	0.218	0.116	-1.60	22.86	23.00	0.225	2021/7/17
Left Tilt 15 Degree	518598/ 2592.99	100M QPSK(135,67)	0.146	0.076	2.44	22.86	23.00	0.151	2021/7/17
Right Cheek	518598/ 2592.99	100M QPSK(135,67)	0.202	0.097	0.12	22.86	23.00	0.209	2021/7/17
Right Tilt 15 Degree	518598/ 2592.99	100M QPSK(135,67)	0.098	0.044	-2.25	22.86	23.00	0.101	2021/7/17

NOTE: Head SAR test results of NR Band N41

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

with 10mm								(W/Kg)	
1RB									
Front Side	518598/ 2592.99	100M QPSK(1,1)	0.312	0.155	-2.99	23.35	23.50	0.323	2021/7/17
Back Side	518598/ 2592.99	100M QPSK(1,1)	0.476	0.241	-0.10	23.35	23.50	0.493	2021/7/17
50%RB									
Front Side	518598/ 2592.99	100M QPSK(135,67)	0.182	0.084	-3.46	22.86	23.00	0.188	2021/7/17
Back Side	518598/ 2592.99	100M QPSK(135,67)	0.263	0.135	-4.76	22.86	23.00	0.272	2021/7/17

NOTE: Body-Worn SAR test results of NR Band N41

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	518598/ 2592.99	100M QPSK(1,1)	0.312	0.155	-2.99	23.35	23.50	0.323	2021/7/17
Back Side	518598/ 2592.99	100M QPSK(1,1)	0.476	0.241	-0.10	23.35	23.50	0.493	2021/7/17
Right Side	518598/ 2592.99	100M QPSK(1,1)	0.245	0.119	3.32	23.35	23.50	0.254	2021/7/17
Bottom Side	518598/ 2592.99	100M QPSK(1,1)	0.325	0.165	1.45	23.35	23.50	0.336	2021/7/17
50%RB									
Front Side	518598/ 2592.99	100M QPSK(135,67)	0.182	0.084	-3.46	22.86	23.00	0.188	2021/7/17
Back Side	518598/ 2592.99	100M QPSK(135,67)	0.263	0.135	-4.76	22.86	23.00	0.272	2021/7/17
Right Side	518598/ 2592.99	100M QPSK(135,67)	0.123	0.065	1.16	22.86	23.00	0.127	2021/7/17
Bottom Side	518598/ 2592.99	100M QPSK(135,67)	0.165	0.098	0.73	22.86	23.00	0.170	2021/7/17

NOTE: Head SAR test results of NR Band N41

10.1.23. SAR measurement Result of WLAN 2.4G

Test Position	Test	Test	SAR Value	Power	Conducted	Tune-up	Scaled	Date

of Head	channel /Freq.	Mode	(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
Left Cheek	6/2437	802.11b	0.419	0.184	-4.12	13.43	14.00	0.478	2021/7/09
Left Tilt 15 Degree	6/2437	802.11b	0.244	0.103	4.80	13.43	14.00	0.278	2021/7/09
Right Cheek	6/2437	802.11b	0.361	0.156	2.05	13.43	14.00	0.412	2021/7/09
Right Tilt 15 Degree	6/2437	802.11b	0.188	0.079	0.41	13.43	14.00	0.214	2021/7/09

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	6/2437	802.11b	0.155	0.086	2.18	13.43	14.00	0.177	2021/7/09
Back Side	6/2437	802.11b	0.243	0.134	-1.40	13.43	14.00	0.277	2021/7/09

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	6/2437	802.11b	0.155	0.086	2.18	13.43	14.00	0.177	2021/7/09
Back Side	6/2437	802.11b	0.243	0.134	-1.40	13.43	14.00	0.277	2021/7/09
Right Side	6/2437	802.11b	0.060	0.032	4.79	13.43	14.00	0.068	2021/7/09
Top Side	6/2437	802.11b	0.076	0.042	-4.17	13.43	14.00	0.087	2021/7/09

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.24. SAR measurement Result of WLAN 5.2G

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	40/5200	802.11a	0.460	0.171	3.07	10.948	11.500	0.522	2021/7/21
Left Tilt 15 Degree	40/5200	802.11a	0.268	0.095	2.34	10.948	11.500	0.304	2021/7/21
Right Cheek	40/5200	802.11a	0.422	0.154	2.15	10.948	11.500	0.479	2021/7/21
Right Tilt 15 Degree	40/5200	802.11a	0.195	0.072	-1.58	10.948	11.500	0.221	2021/7/21

NOTE: Head SAR test results of WLAN 5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	40/5200	802.11a	0.171	0.090	-0.11	10.948	11.500	0.194	2021/7/21
Back Side	40/5200	802.11a	0.443	0.197	-2.02	10.948	11.500	0.503	2021/7/21

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	40/5200	802.11a	0.171	0.090	-0.11	10.948	11.500	0.194	2021/7/21
Back Side	40/5200	802.11a	0.443	0.197	-2.02	10.948	11.500	0.503	2021/7/21
Right Side	40/5200	802.11a	0.102	0.045	-1.04	10.948	11.500	0.116	2021/7/21
Top Side	40/5200	802.11a	0.138	0.068	-1.08	10.948	11.500	0.157	2021/7/21

NOTE: Hotspot SAR test results of WLAN 5.2G

10.1.25. 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					
Left Cheek	56/5280	802.11n HT20	0.430	0.164	4.21	9.424	10.600	0.564	2021/7/21
Left Tilt 15 Degree	56/5280	802.11n HT20	0.256	0.093	-2.79	9.424	10.600	0.336	2021/7/21
Right Cheek	56/5280	802.11n HT20	0.368	0.139	3.34	9.424	10.600	0.482	2021/7/21
Right Tilt 15 Degree	56/5280	802.11n HT20	0.189	0.072	2.79	9.424	10.600	0.248	2021/7/21

NOTE: Head SAR test results of WLAN 5.3G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	56/5280	802.11n HT20	0.294	0.127	-3.70	9.424	10.600	0.385	2021/7/21
Back Side	56/5280	802.11n	0.462	0.207	-0.28	9.424	10.600	0.606	2021/7/21

		HT20							

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	56/5280	802.11n HT20	0.294	0.127	-3.70	9.424	10.600	0.385	2021/7/21
Back Side	56/5280	802.11n HT20	0.462	0.207	-0.28	9.424	10.600	0.606	2021/7/21
Right Side	56/5280	802.11n HT20	0.106	0.045	-2.23	9.424	10.600	0.139	2021/7/21
Top Side	56/5280	802.11n HT20	0.157	0.066	-2.69	9.424	10.600	0.206	2021/7/21

NOTE: Hotspot SAR test results of WLAN 5.3G

10.1.26. 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					
Left Cheek	118/5590	802.11n HT40	0.282	0.123	3.47	10.12	10.50	0.308	2021/7/31
Left Tilt 15 Degree	118/5590	802.11n HT40	0.150	0.065	3.09	10.12	10.50	0.164	2021/7/31
Right Cheek	118/5590	802.11n HT40	0.241	0.103	3.96	10.12	10.50	0.263	2021/7/31
Right Tilt 15 Degree	118/5590	802.11n HT40	0.132	0.055	0.19	10.12	10.50	0.144	2021/7/31

NOTE: Head SAR test results of WLAN 5.6G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	118/5590	802.11n HT40	0.233	0.114	-1.43	10.12	10.50	0.254	2021/7/31
Back Side	118/5590	802.11n HT40	0.382	0.180	3.73	10.12	10.50	0.417	2021/7/31

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	118/5590	802.11n HT40	0.233	0.114	-1.43	10.12	10.50	0.254	2021/7/31
Back Side	118/5590	802.11n HT40	0.382	0.180	3.73	10.12	10.50	0.417	2021/7/31
Right Side	118/5590	802.11n HT40	0.086	0.040	-4.25	10.12	10.50	0.094	2021/7/31
Top Side	118/5590	802.11n HT40	0.122	0.056	0.44	10.12	10.50	0.133	2021/7/31

NOTE: Hotspot SAR test results of WLAN 5.6G

10.1.27. SAR measurement Result of WLAN 5.8G

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	157/5785	802.11ac VHT20	0.253	0.117	-0.65	9.102	10.500	0.349	2021/7/26
Left Tilt 15 Degree	157/5785	802.11ac VHT20	0.127	0.057	-2.37	9.102	10.500	0.175	2021/7/26
Right Cheek	157/5785	802.11ac VHT20	0.237	0.104	3.93	9.102	10.500	0.327	2021/7/26
Right Tilt 15 Degree	157/5785	802.11ac VHT20	0.128	0.056	-0.03	9.102	10.500	0.177	2021/7/26

NOTE: Head SAR test results of WLAN 5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	157/5785	802.11ac VHT20	0.212	0.100	-2.94	9.102	10.500	0.293	2021/7/26
Back Side	157/5785	802.11ac VHT20	0.342	0.163	-2.16	9.102	10.500	0.472	2021/7/26

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

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date

Position of Hotspot with 10mm	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
Front Side	157/5785	802.11ac VHT20	0.212	0.100	-2.94	9.102	10.500	0.293	2021/7/26
Back Side	157/5785	802.11ac VHT20	0.342	0.163	-2.16	9.102	10.500	0.472	2021/7/26
Right Side	157/5785	802.11ac VHT20	0.073	0.033	1.40	9.102	10.500	0.101	2021/7/26
Top Side	157/5785	802.11ac VHT20	0.105	0.053	-0.60	9.102	10.500	0.145	2021/7/26

NOTE: Hotspot SAR test results of WLAN 5.8G

10.2. Simultaneous Transmission Analysis

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

1) Scalar SAR summation < 1.6W/kg.

2) SPLSR = $(SAR_1 + SAR_2)^{1.5}$ / (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 ≤ 0.04, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.450	0.478	0.928	N/A	N/A
	Left Tilt 15 Degree	0.264	0.278	0.542	N/A	N/A
	Right Cheek	0.387	0.412	0.799	N/A	N/A
	Right Tilt 15 Degree	0.184	0.214	0.398	N/A	N/A
Body-Worn	Front Side	0.431	0.177	0.608	N/A	N/A
	Back Side	0.690	0.277	0.967	N/A	N/A
Hotspot	Front Side	0.431	0.177	0.608	N/A	N/A
	Back Side	0.690	0.277	0.967	N/A	N/A
	Left Side	0.222	N/A	0.222	N/A	N/A
	Right Side	0.254	0.068	0.322	N/A	N/A
	Top Side	N/A	0.087	0.087	N/A	N/A
	Bottom Side	0.336	N/A	0.336	N/A	N/A

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.450	0.564	1.014	N/A	N/A
	Left Tilt 15 Degree	0.264	0.336	0.600	N/A	N/A
	Right Cheek	0.387	0.482	0.869	N/A	N/A
	Right Tilt 15 Degree	0.184	0.248	0.432	N/A	N/A
Body-Worn	Front Side	0.431	0.385	0.816	N/A	N/A
	Back Side	0.690	0.606	1.296	N/A	N/A
Hotspot	Front Side	0.431	0.385	0.816	N/A	N/A
	Back Side	0.690	0.606	1.296	N/A	N/A
	Left Side	0.222	N/A	0.222	N/A	N/A
	Right Side	0.254	0.139	0.393	N/A	N/A
	Top Side	N/A	0.206	0.206	N/A	N/A
	Bottom Side	0.336	N/A	0.336	N/A	N/A

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.450	0.297	0.747	N/A	N/A
	Left Tilt 15 Degree	0.264	0.297	0.561	N/A	N/A
	Right Cheek	0.387	0.297	0.684	N/A	N/A
	Right Tilt 15 Degree	0.184	0.297	0.481	N/A	N/A
Body-Worn	Front Side	0.431	0.149	0.580	N/A	N/A
	Back Side	0.690	0.149	0.839	N/A	N/A
Hotspot	Front Side	0.431	0.149	0.580	N/A	N/A
	Back Side	0.690	0.149	0.839	N/A	N/A
	Left Side	0.222	N/A	0.222	N/A	N/A
	Right Side	0.254	0.149	0.403	N/A	N/A
	Top Side	N/A	0.149	0.149	N/A	N/A
	Bottom Side	0.336	N/A	0.336	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
MEASUREMENT 3 System Performance Check - 1800MHz
MEASUREMENT 4 System Performance Check - 1900MHz
MEASUREMENT 5 System Performance Check - 2450MHz
MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5600MHz
MEASUREMENT 9 System Performance Check - 5800MHz

MEASUREMENT 1

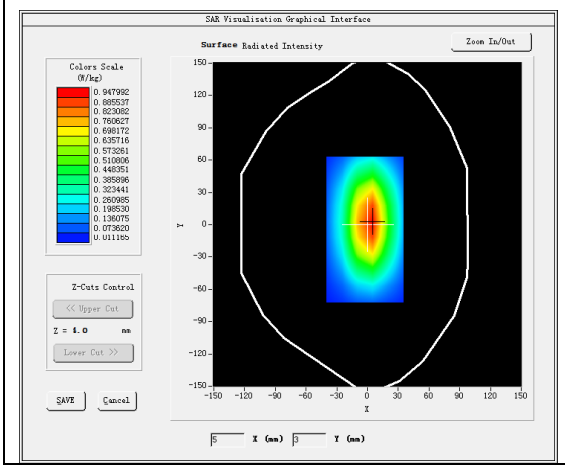
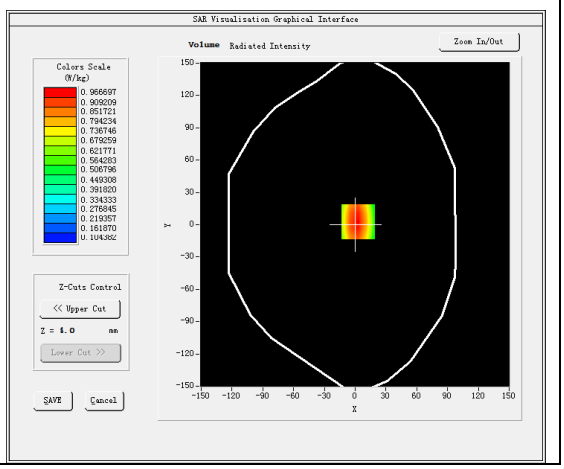
Date of measurement: 7/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

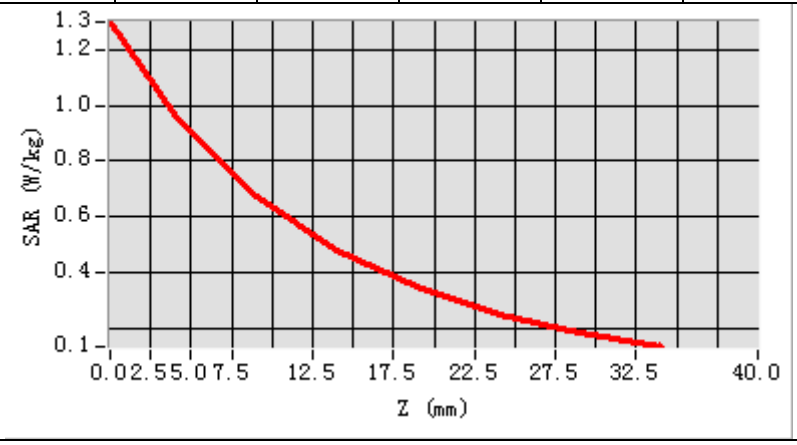
Frequency (MHz)	750.000000
Relative permittivity (real part)	40.976214
Relative permittivity (imaginary part)	21.669339
Conductivity (S/m)	0.902889
Variation (%)	-3.910000

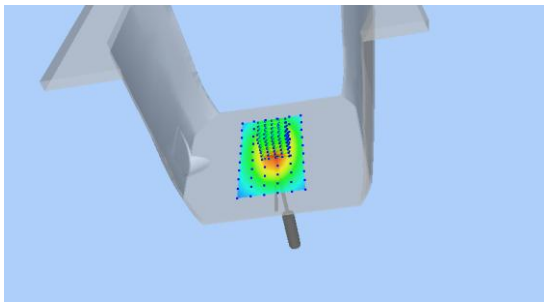
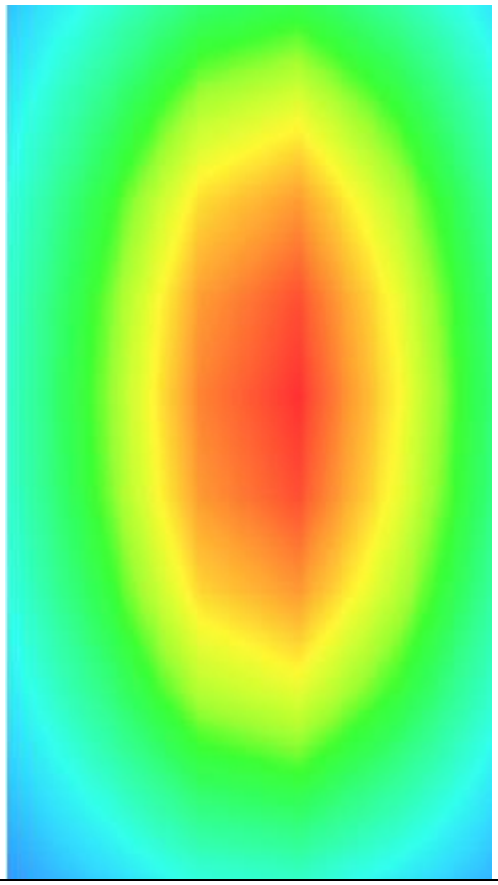
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.553218
SAR 1g (W/Kg)	0.851962

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2956	0.9637	0.6746	0.4838	0.3498	0.2546	0.1849



3D screen shot	Hot spot position
	

MEASUREMENT 2

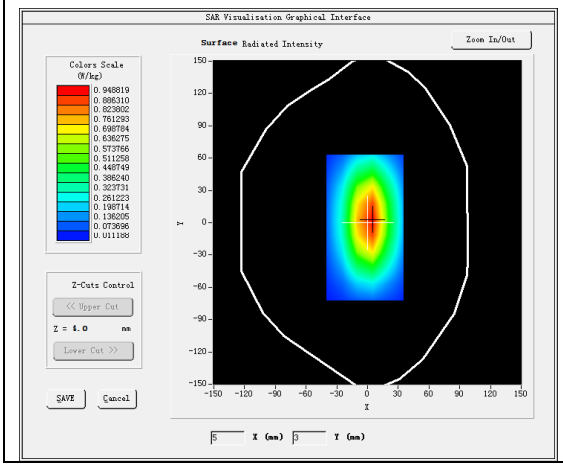
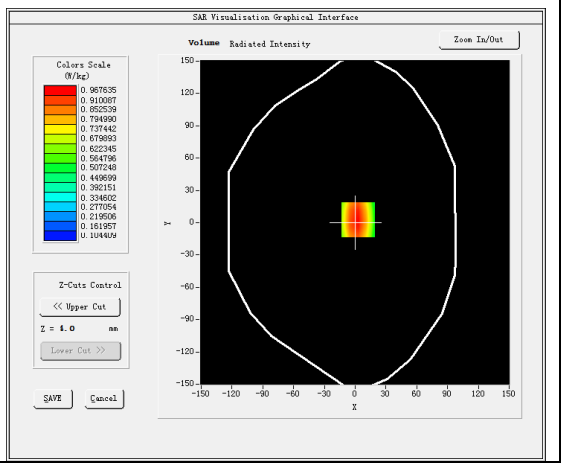
Date of measurement: 12/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

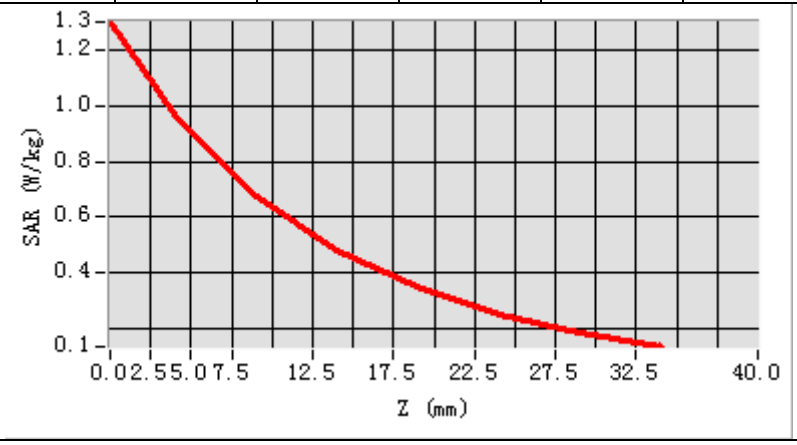
Frequency (MHz)	835.000000
Relative permittivity (real part)	42.789218
Relative permittivity (imaginary part)	19.935583
Conductivity (S/m)	0.924790
Variation (%)	3.190000

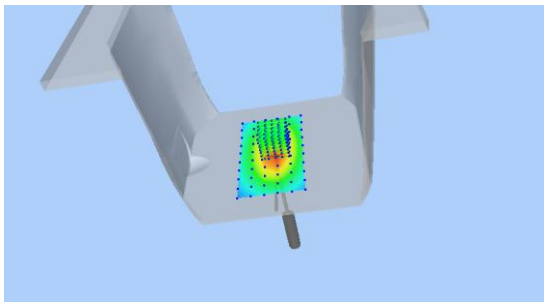
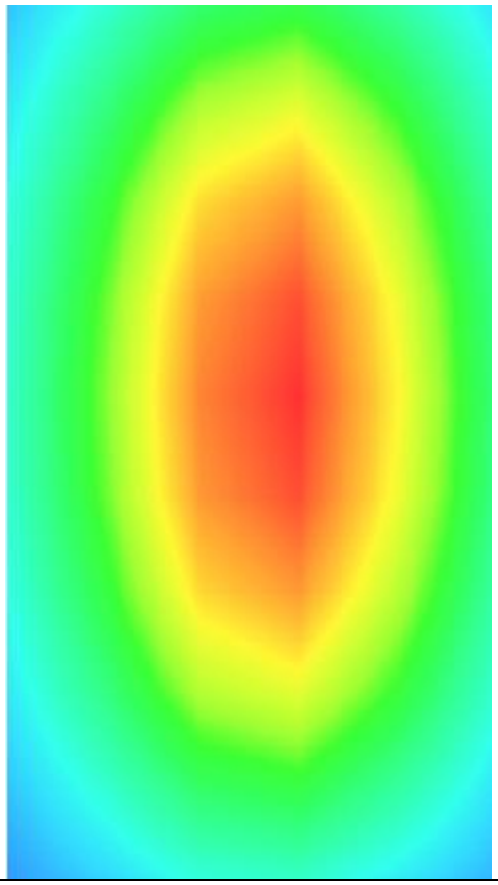
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.606966
SAR 1g (W/Kg)	0.951235

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3014	0.9644	0.6725	0.4822	0.3435	0.2536	0.1888



3D screen shot	Hot spot position
	

MEASUREMENT 3

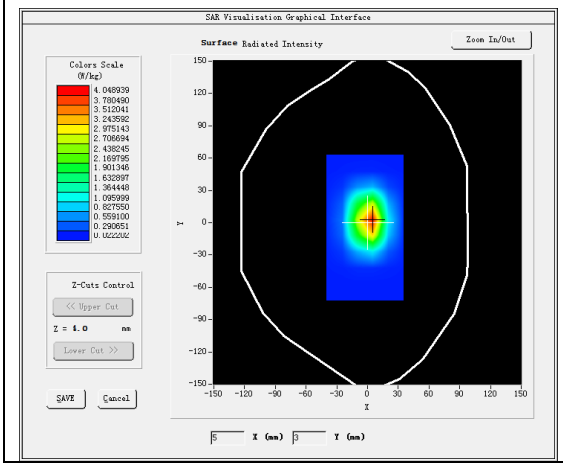
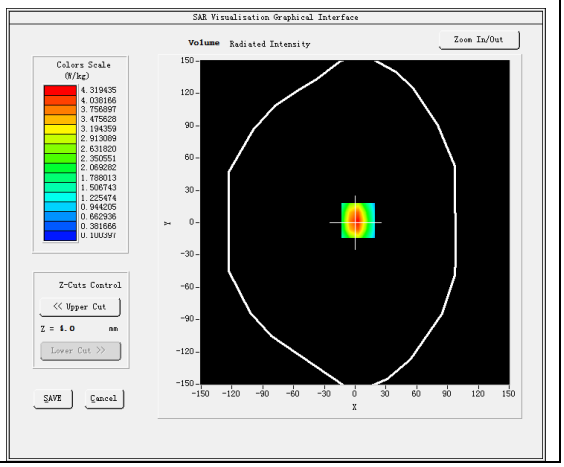
Date of measurement: 15/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

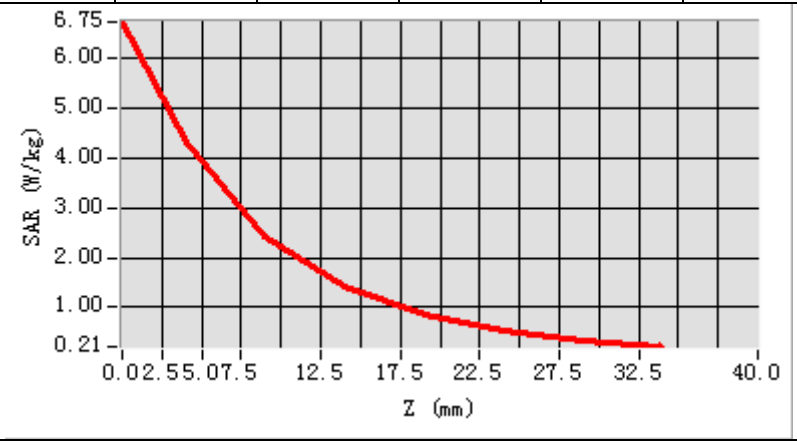
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.717856
Relative permittivity (imaginary part)	13.755123
Conductivity (S/m)	1.375512
Variation (%)	-3.16000

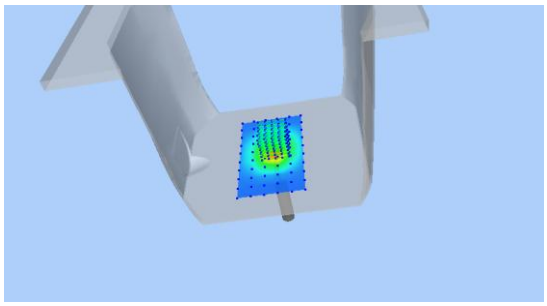
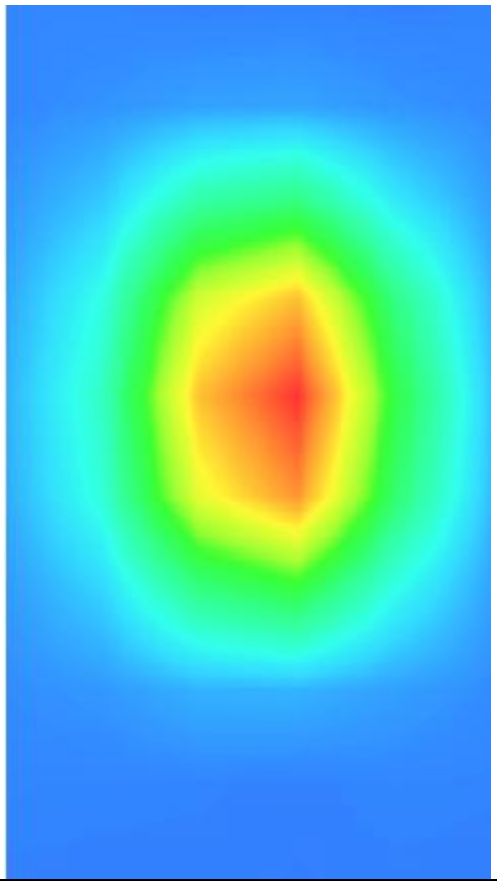
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	2.001397
SAR 1g (W/Kg)	3.809551

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7414	4.3166	2.4339	1.4253	0.8563	0.5214	0.3238



3D screen shot	Hot spot position
	

MEASUREMENT 4

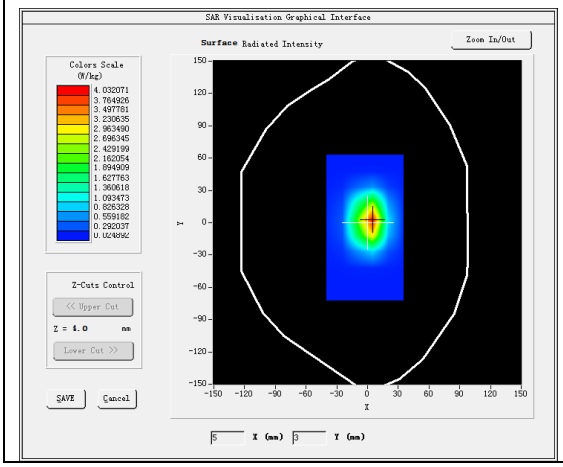
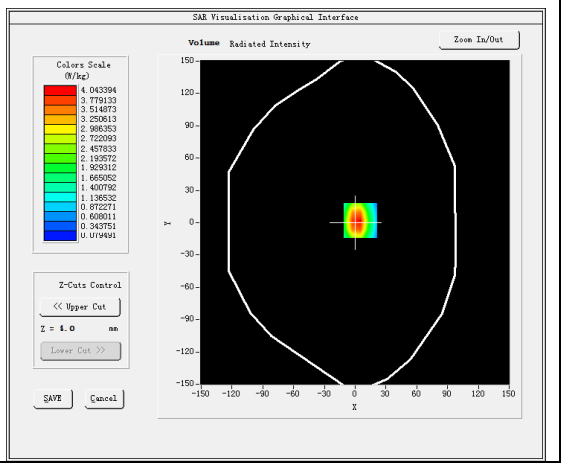
Date of measurement: 19/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

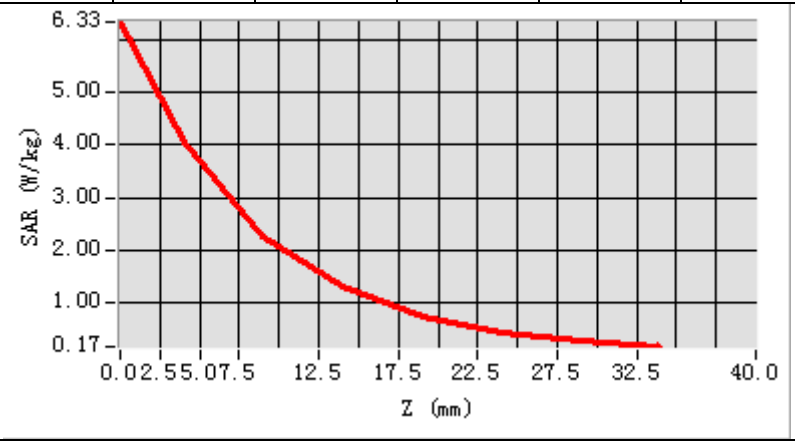
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.440114
Relative permittivity (imaginary part)	13.715587
Conductivity (S/m)	1.447756
Variation (%)	-1.430000

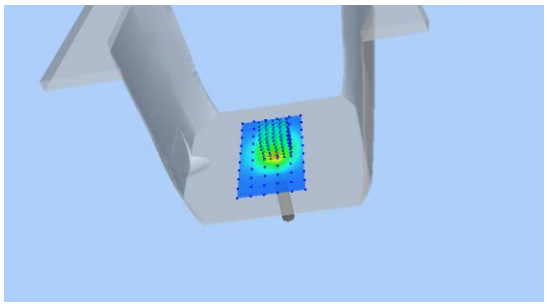
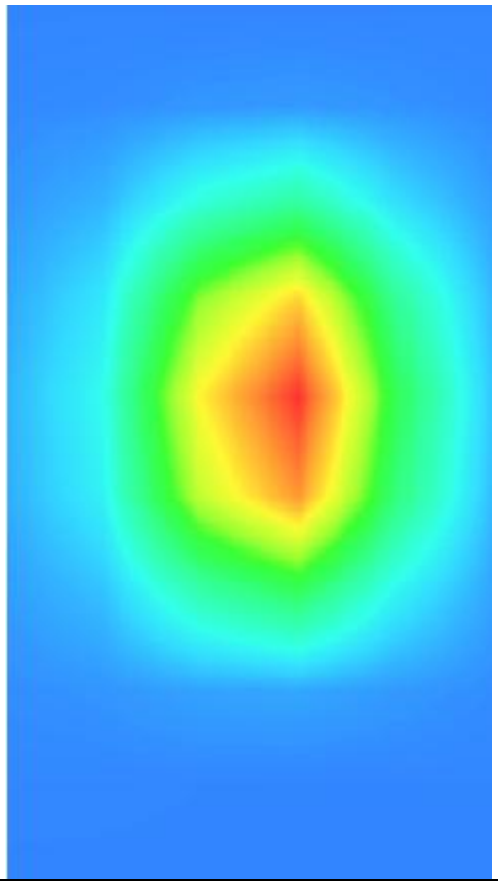
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	2.063456
SAR 1g (W/Kg)	3.895365

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.3214	4.0435	2.2657	1.3078	0.7635	0.4533	0.2735



3D screen shot	Hot spot position
	

MEASUREMENT 5

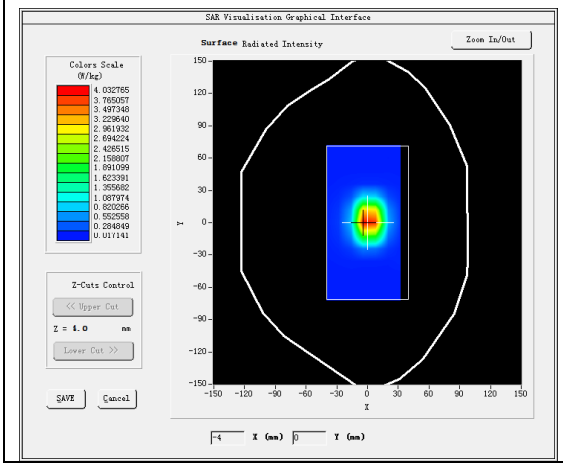
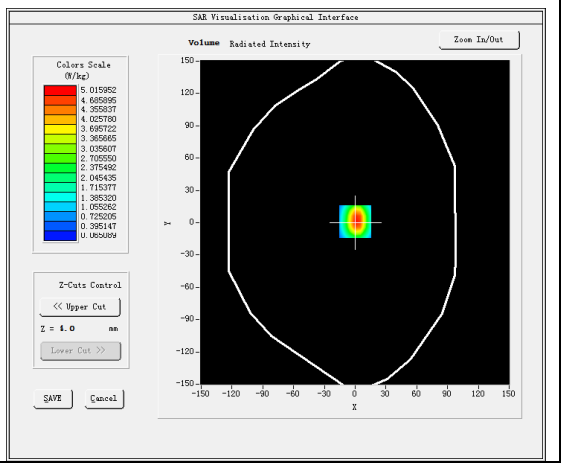
Date of measurement: 9/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

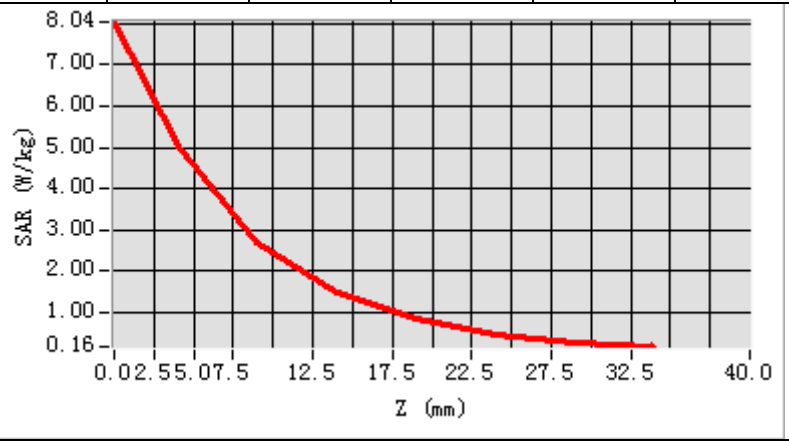
Frequency (MHz)	2450.000000
Relative permittivity (real part)	40.398099
Relative permittivity (imaginary part)	13.511857
Conductivity (S/m)	1.839114
Variation (%)	-3.350000

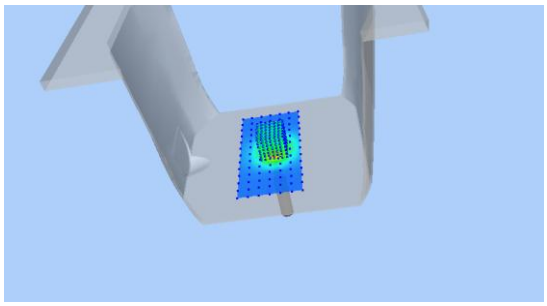
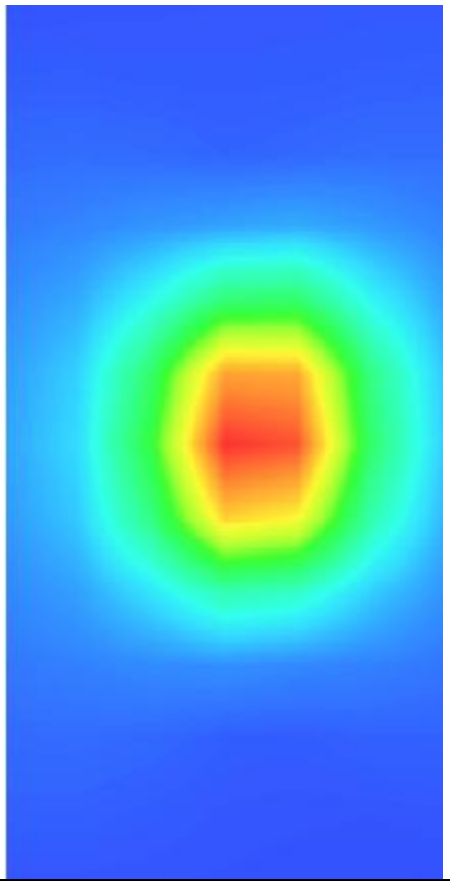
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	2.409375
SAR 1g (W/Kg)	5.371435

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.0342	5.0144	2.6935	1.4878	0.8365	0.4635	0.2617



3D screen shot	Hot spot position
	

MEASUREMENT 6

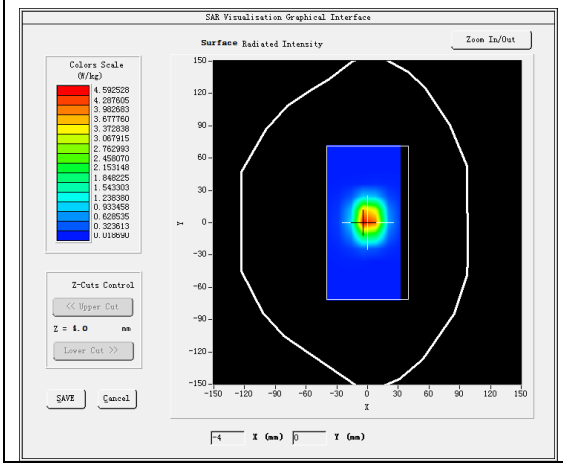
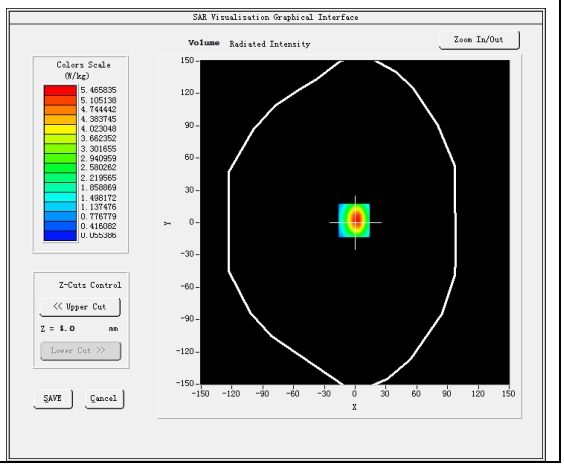
Date of measurement: 17/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

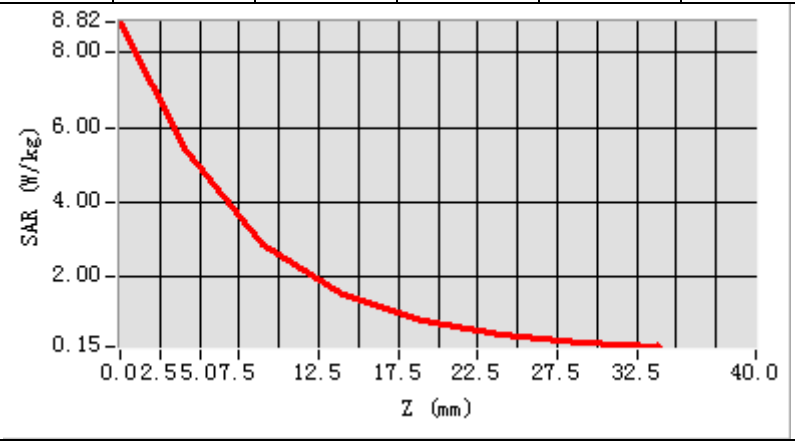
Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.616992
Relative permittivity (imaginary part)	14.132609
Conductivity (S/m)	2.041377
Variation (%)	-4.040000

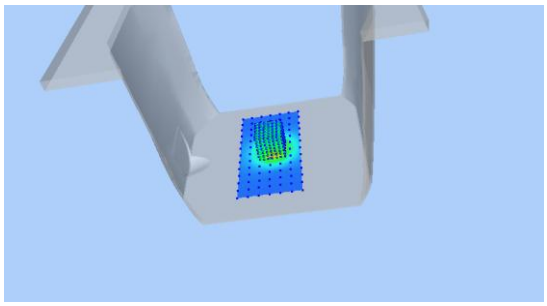
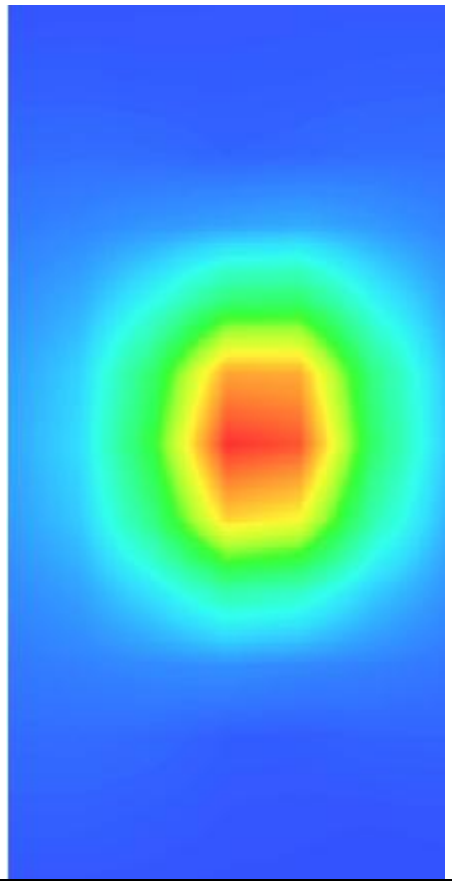
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	2.455205
SAR 1g (W/Kg)	5.564867

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.8114	5.4608	2.8903	1.5683	0.8555	0.4717	0.2682



3D screen shot	Hot spot position
	

MEASUREMENT 7

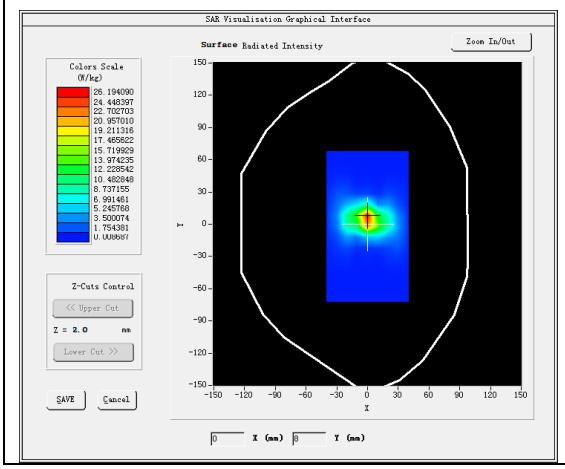
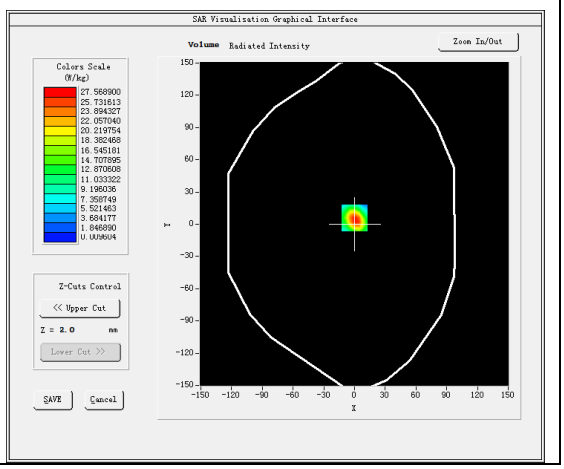
Date of measurement: 21/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

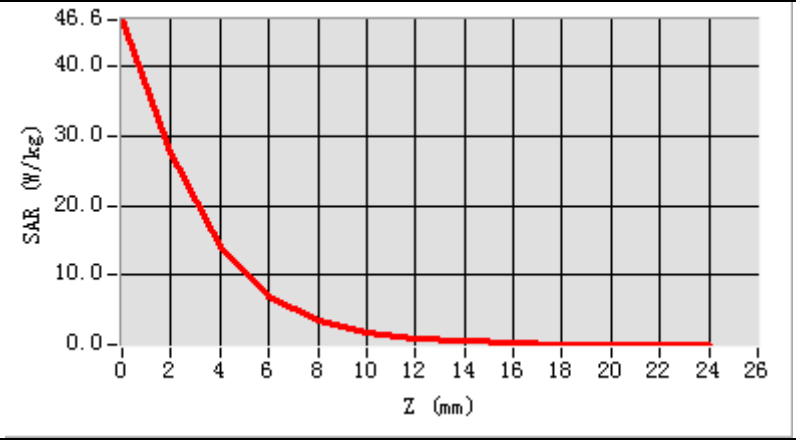
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.654322
Relative permittivity (imaginary part)	16.295178
Conductivity (S/m)	4.707496
Variation (%)	4.490000

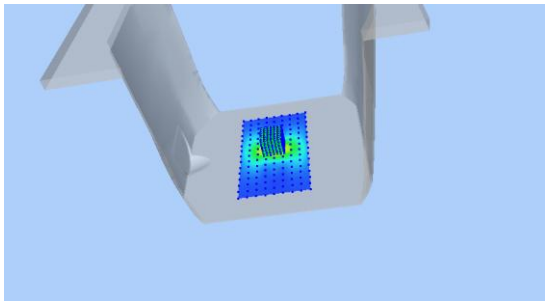
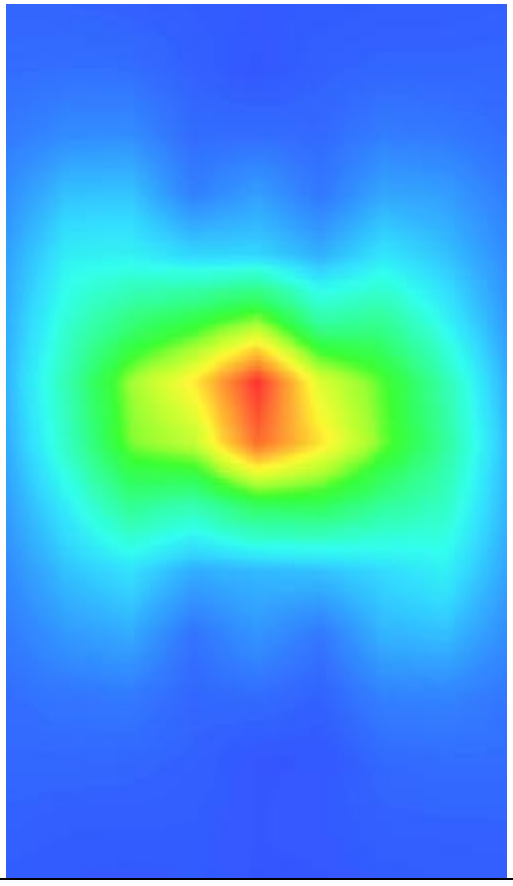
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 49.61 W/kg

SAR 10g (W/Kg)	5.622184
SAR 1g (W/Kg)	15.134246

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	46.6150	27.5644	14.0668	7.05 91	3.59 28	1.78 02	0.89 38	0.46 70	0.24 75	0.13 53	0.06 50	0.04 000



3D screen shot	Hot spot position
	

MEASUREMENT 8

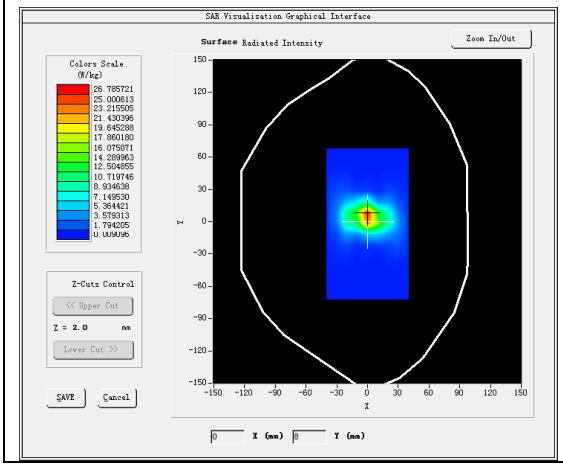
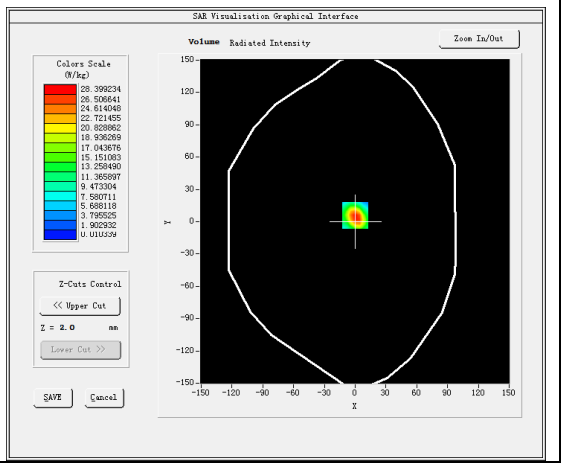
Date of measurement: 31/7/2021

A. Experimental conditions.

Area Scan	dx=10mm dy=10mm, h= 2.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

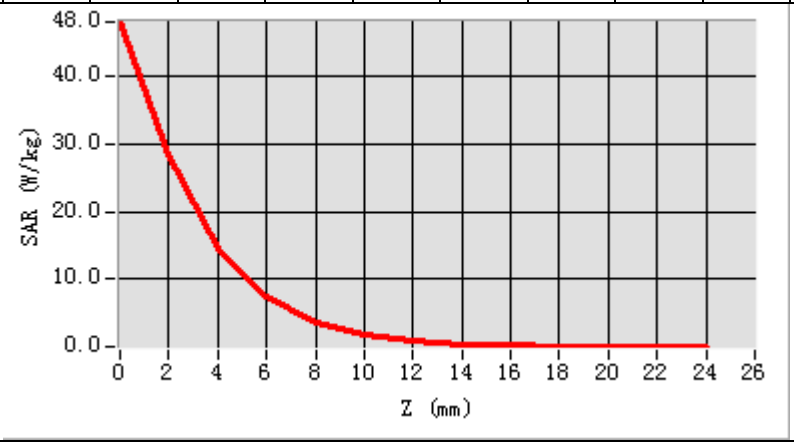
Frequency (MHz)	5600.000000
Relative permittivity (real part)	36.413311
Relative permittivity (imaginary part)	16.254709
Conductivity (S/m)	5.057021
Variation (%)	-3.120000

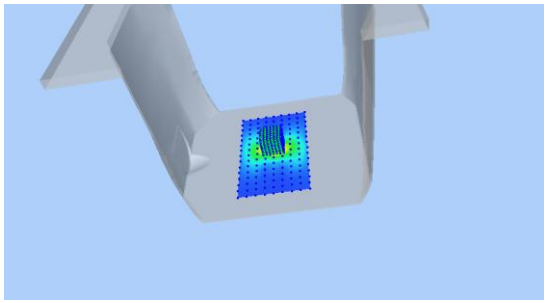
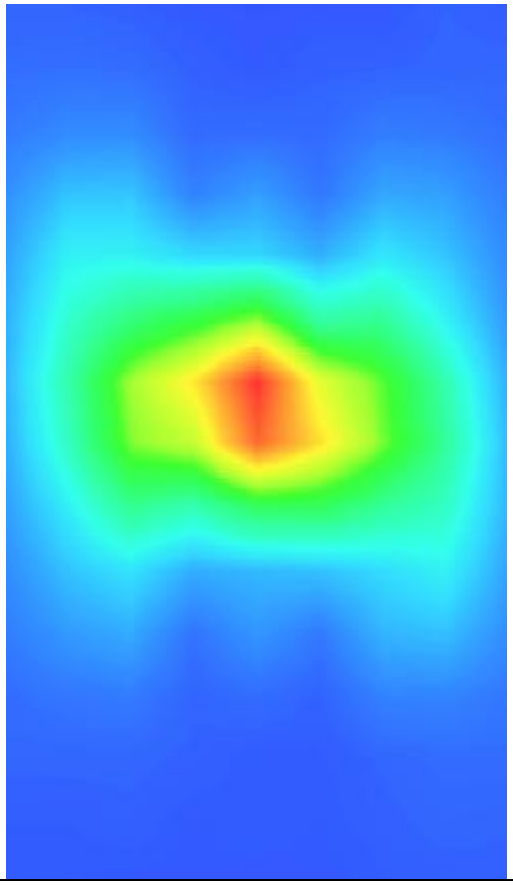
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 50.97 W/kg

SAR 10g (W/Kg)	5.658019
SAR 1g (W/Kg)	17.465075

Z (mm)	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)	48.0319	28.3990	14.4532	7.2935	3.6497	1.8204	0.9245	0.4666	0.2496	0.1343	0.0729	0.0494



3D screen shot	Hot spot position
	

MEASUREMENT 9

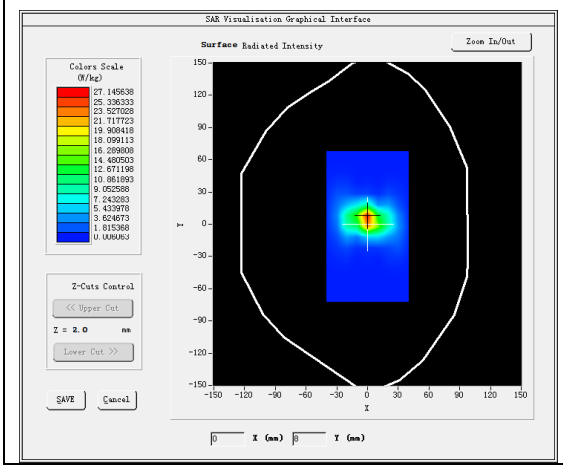
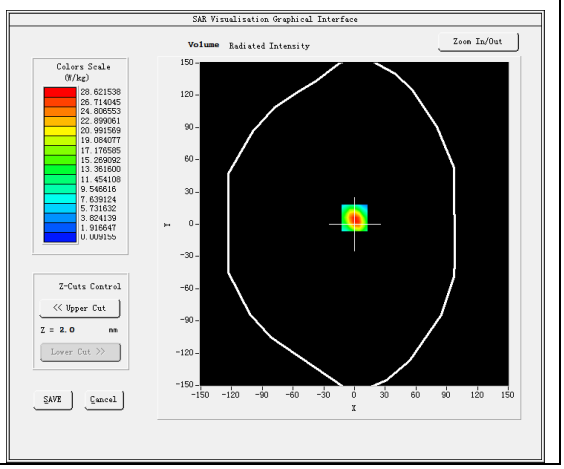
Date of measurement: 26/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

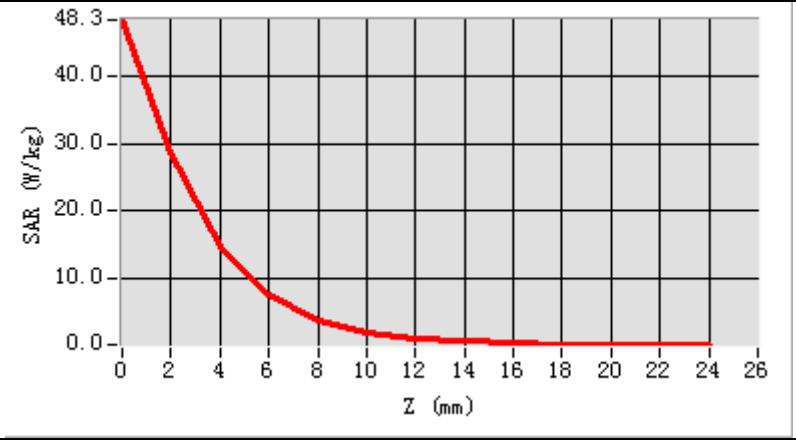
Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.976461
Relative permittivity (imaginary part)	16.398912
Conductivity (S/m)	5.284094
Variation (%)	1.340000

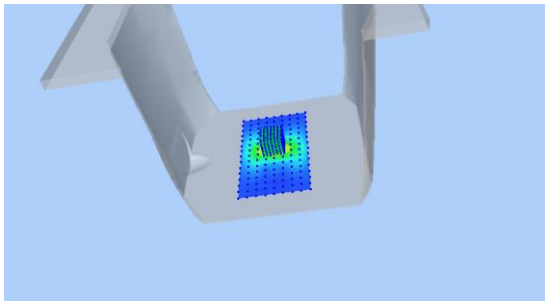
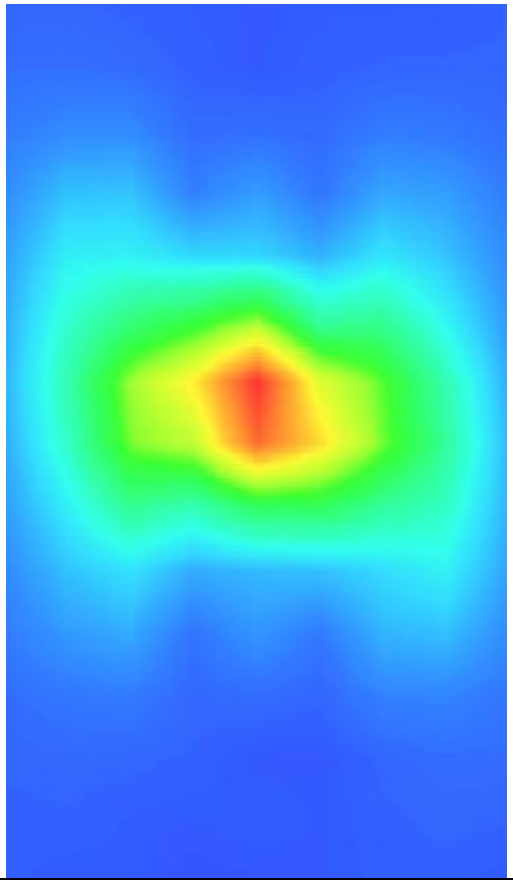
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 51.30 W/kg

SAR 10g (W/Kg)	5.953184
SAR 1g (W/Kg)	17.115052

Z (mm)	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)	48.3472	28.6209	14.6589	7.4039	3.6857	1.8335	0.9318	0.4760	0.2513	0.1308	0.0783	0.0522



3D screen shot	Hot spot position
	

13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

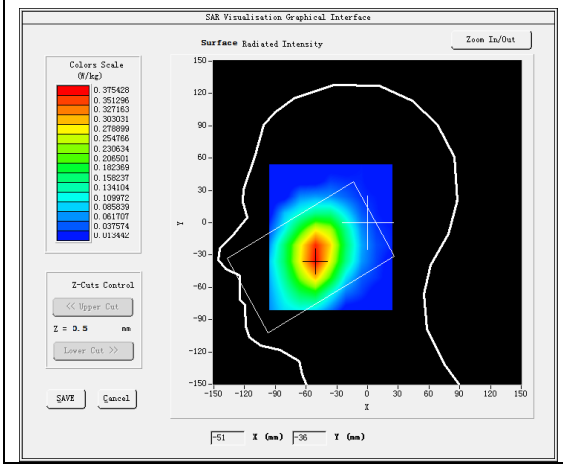
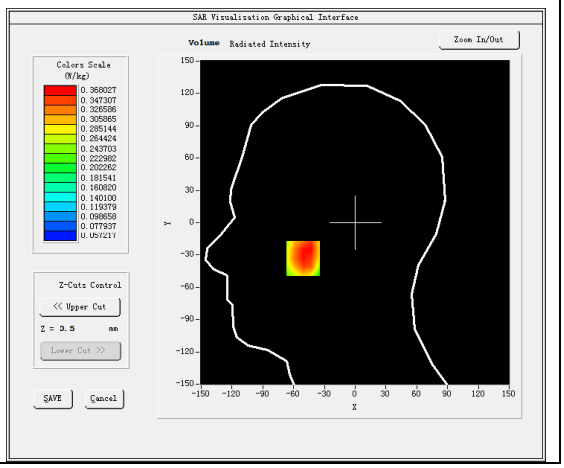
Date of measurement: 12/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)

B. SAR Measurement Results

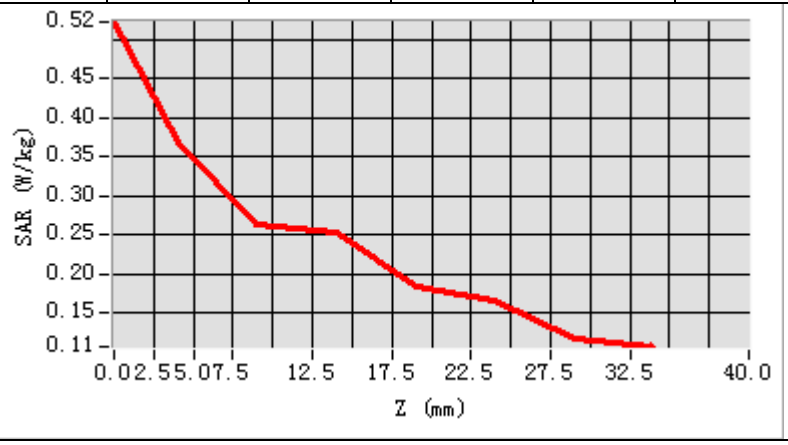
Frequency (MHz)	836.400000
Relative permittivity (real part)	42.704880
Relative permittivity (imaginary part)	19.961424
Conductivity (S/m)	0.927541
Variation (%)	-0.680000

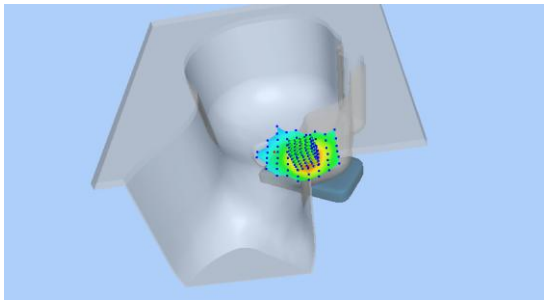
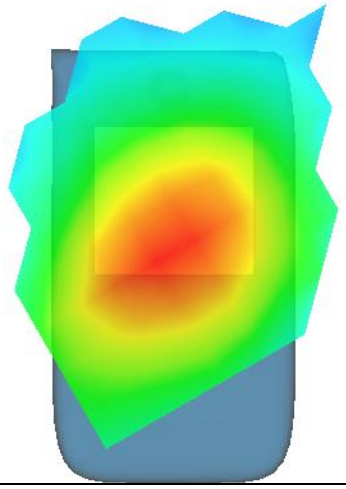
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-33.00
SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.281643
SAR 1g (W/Kg)	0.368134

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5224	0.3680	0.2626	0.2517	0.1828	0.1641	0.1166



3D screen shot	Hot spot position
	

MEASUREMENT 2

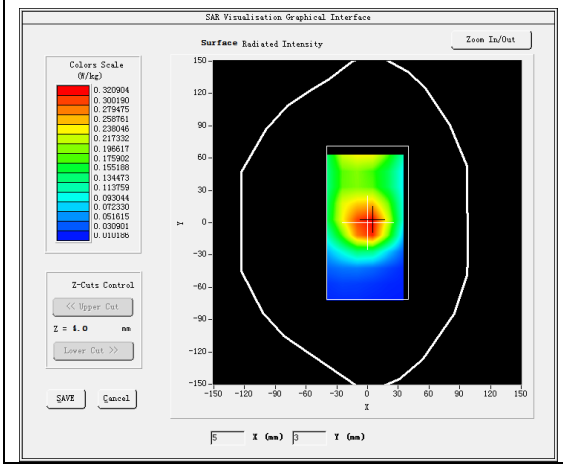
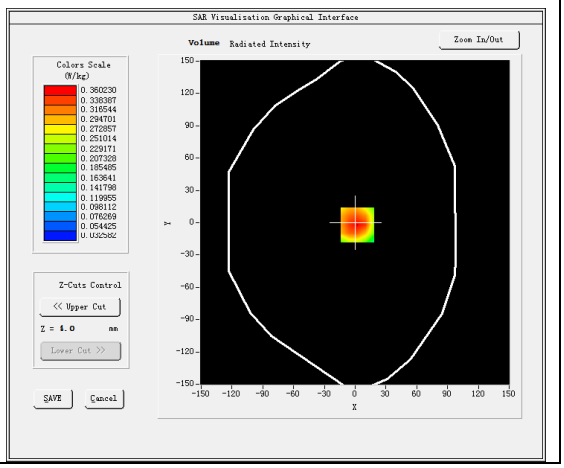
Date of measurement: 12/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)

B. SAR Measurement Results

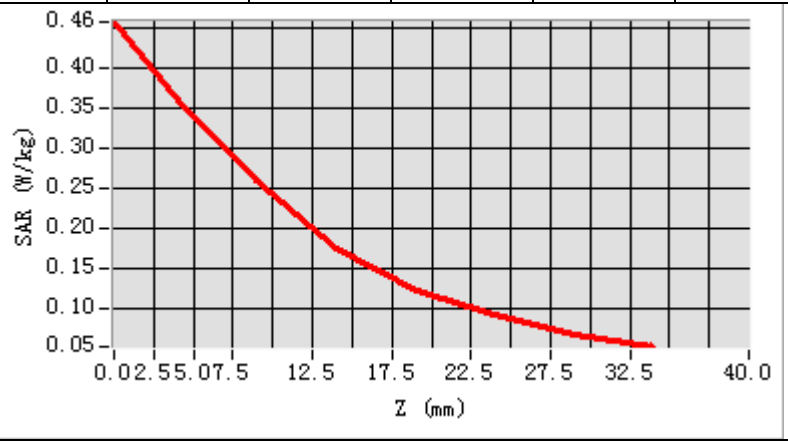
Frequency (MHz)	836.400000
Relative permittivity (real part)	42.704880
Relative permittivity (imaginary part)	19.961424
Conductivity (S/m)	0.927541
Variation (%)	3.570000

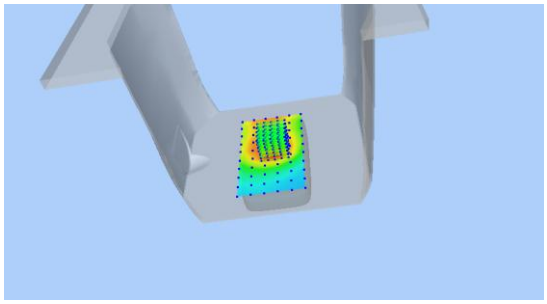
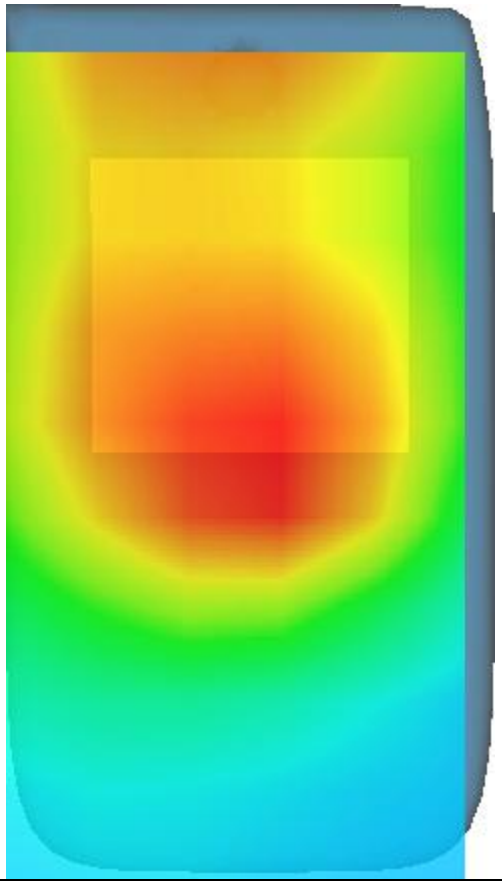
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-2.00
SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.228137
SAR 1g (W/Kg)	0.345797

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4573	0.3602	0.2588	0.1744	0.1217	0.0911	0.0669



3D screen shot	Hot spot position
	

MEASUREMENT 3

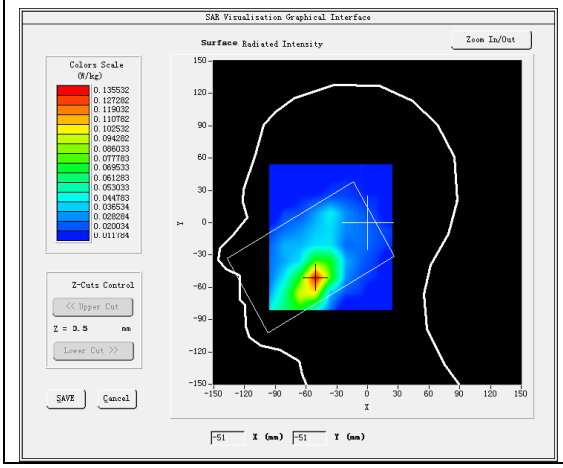
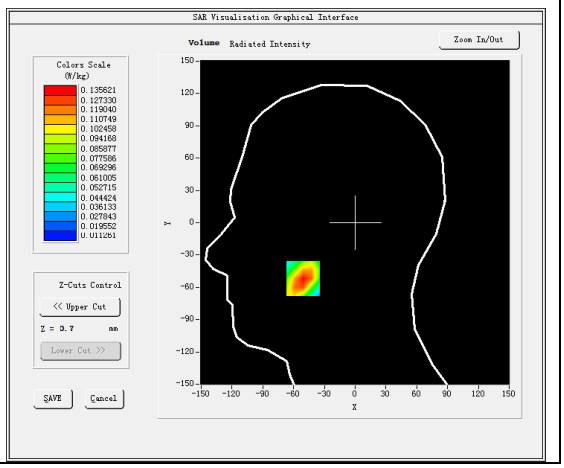
Date of measurement: 19/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

B. SAR Measurement Results

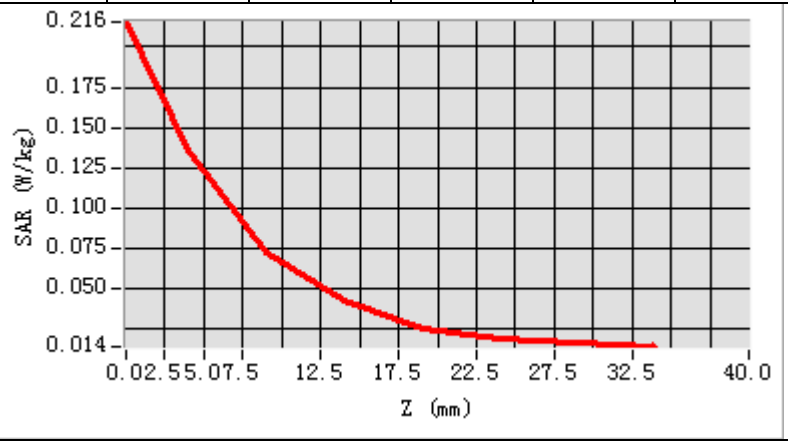
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	-0.940000

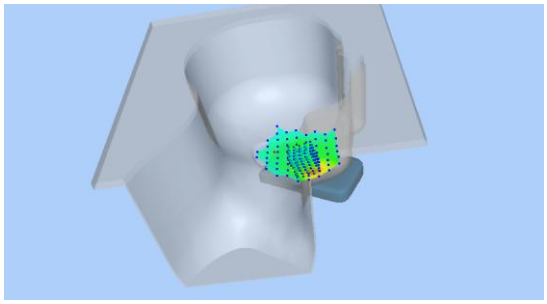
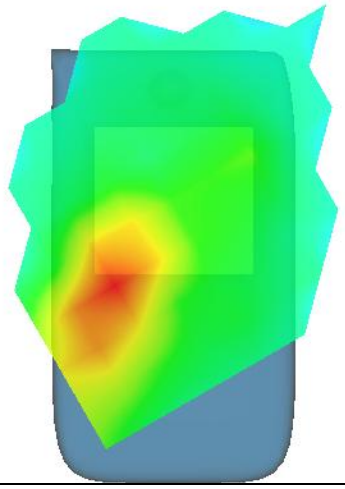
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-52.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.070391
SAR 1g (W/Kg)	0.133188

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2155	0.1356	0.0728	0.0423	0.0253	0.0191	0.0171



3D screen shot	Hot spot position
	

MEASUREMENT 4

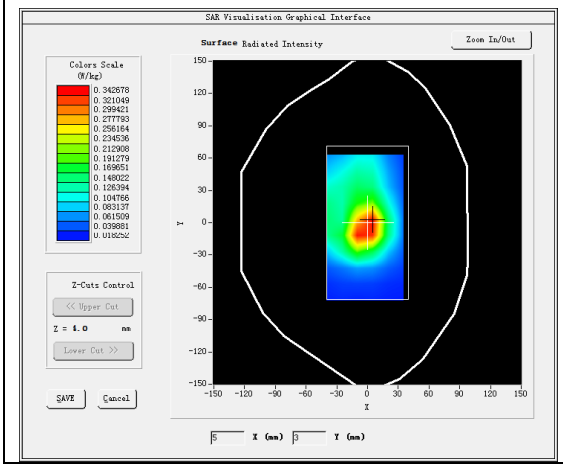
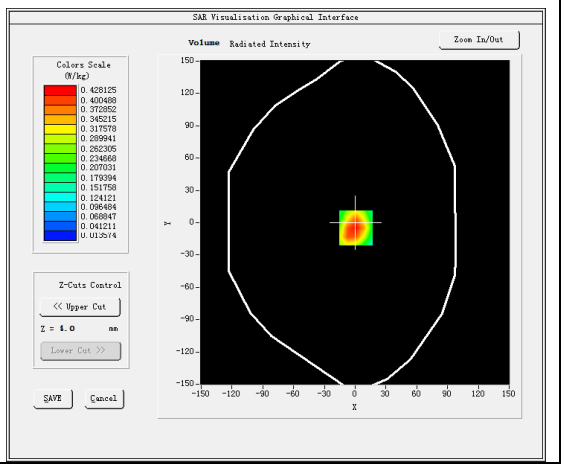
Date of measurement: 19/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

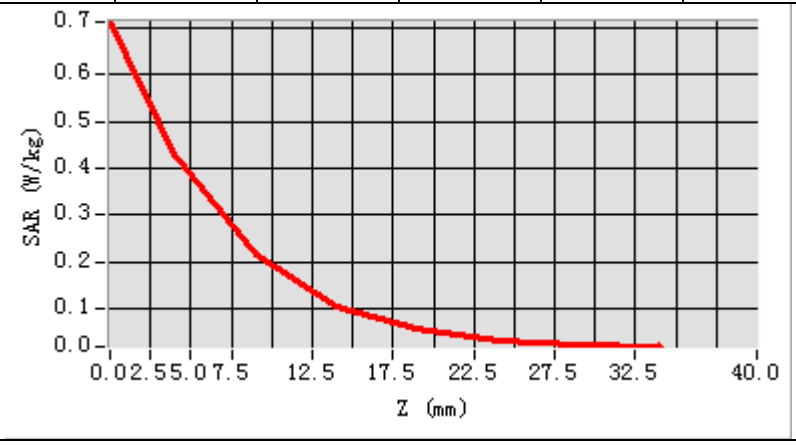
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	4.960000

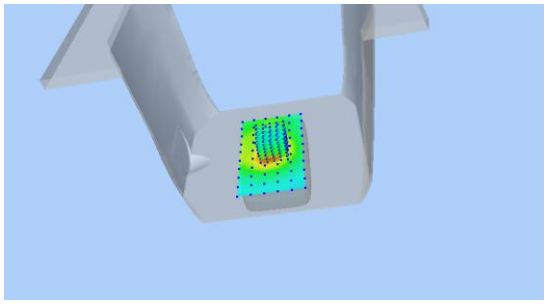
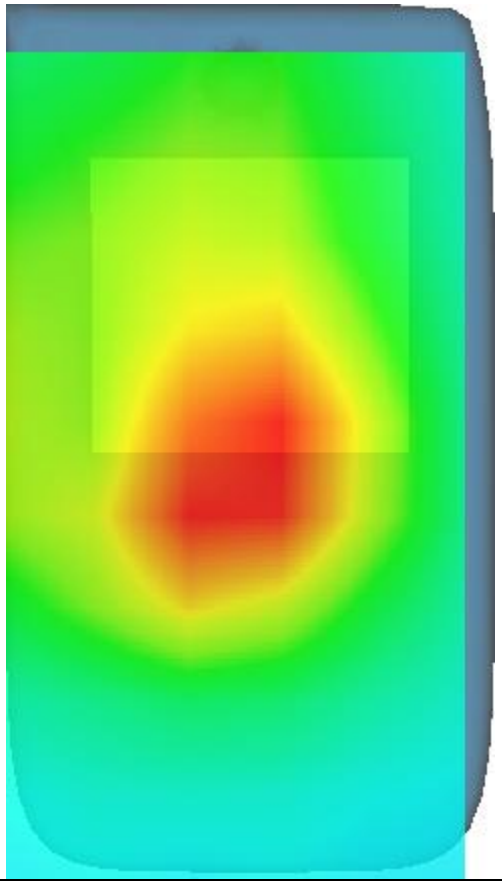
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-5.00
SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.210016
SAR 1g (W/Kg)	0.422268

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7122	0.4281	0.2155	0.1053	0.0567	0.0317	0.0220



3D screen shot	Hot spot position
	

MEASUREMENT 5

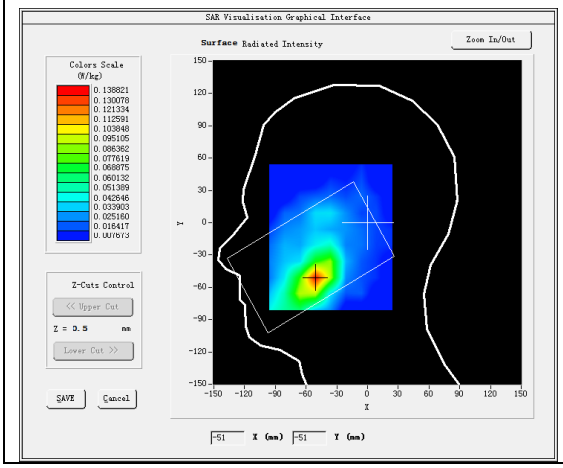
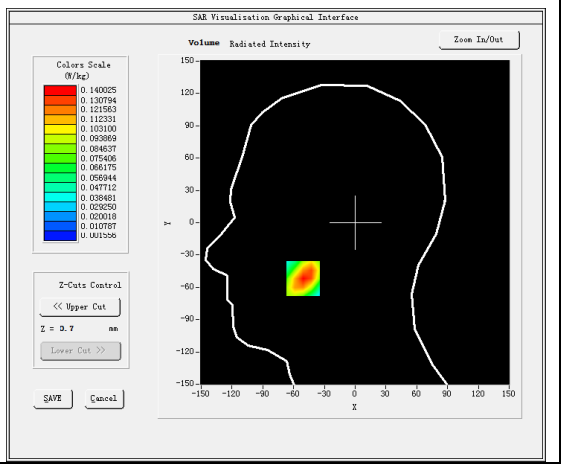
Date of measurement: 19/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

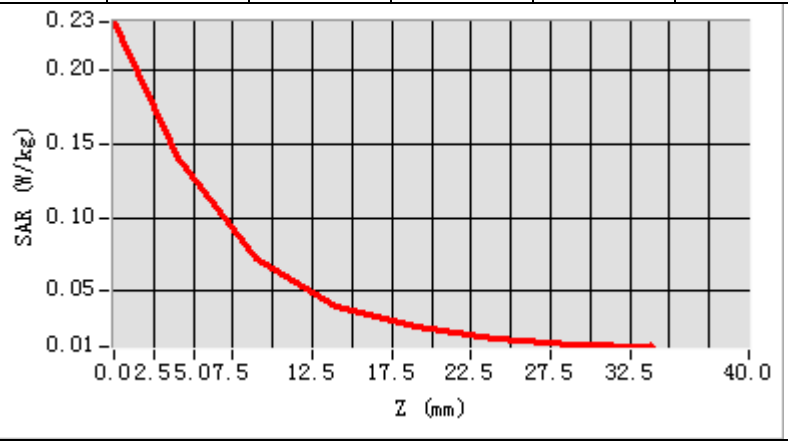
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	4.400002

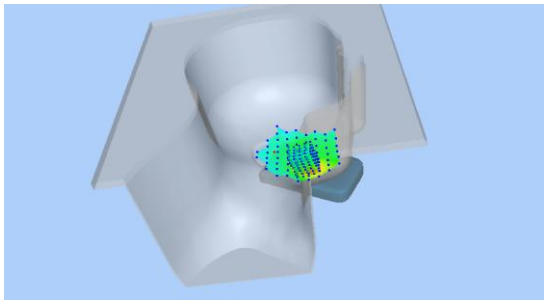
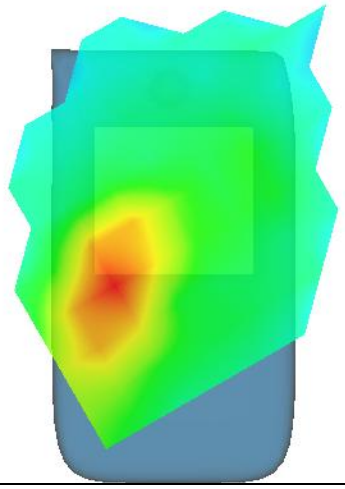
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-52.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.070887
SAR 1g (W/Kg)	0.137718

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2334	0.1400	0.0727	0.0401	0.0258	0.0182	0.0141



3D screen shot	Hot spot position
	

MEASUREMENT 6

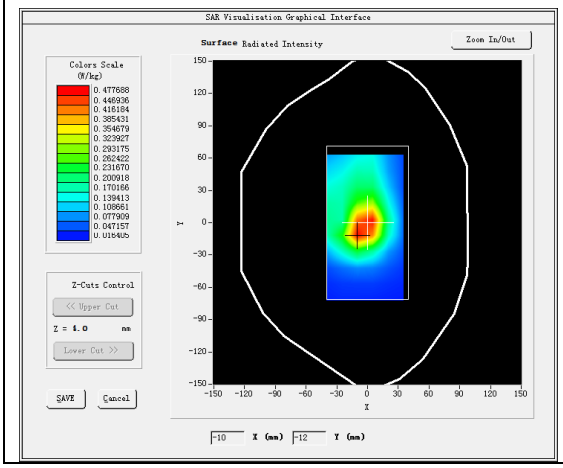
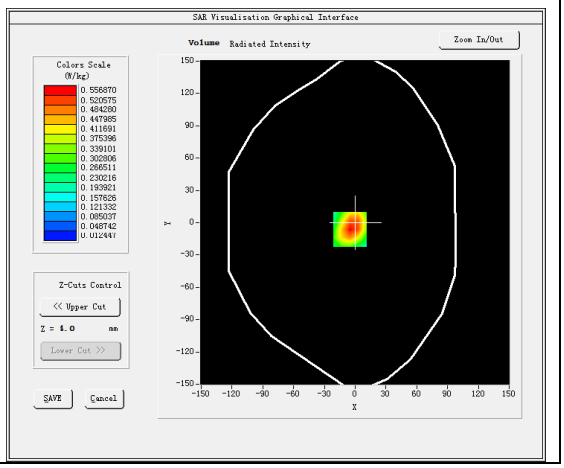
Date of measurement: 19/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

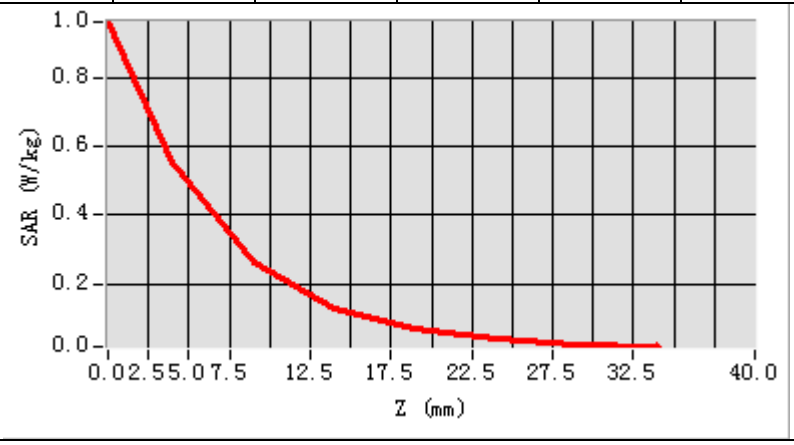
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	0.290000

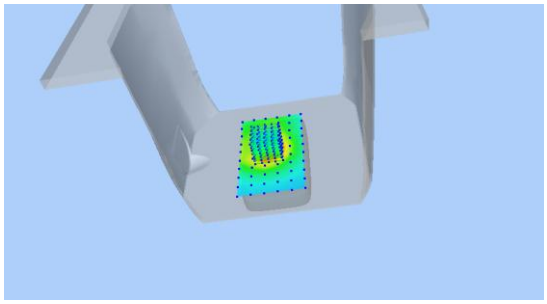
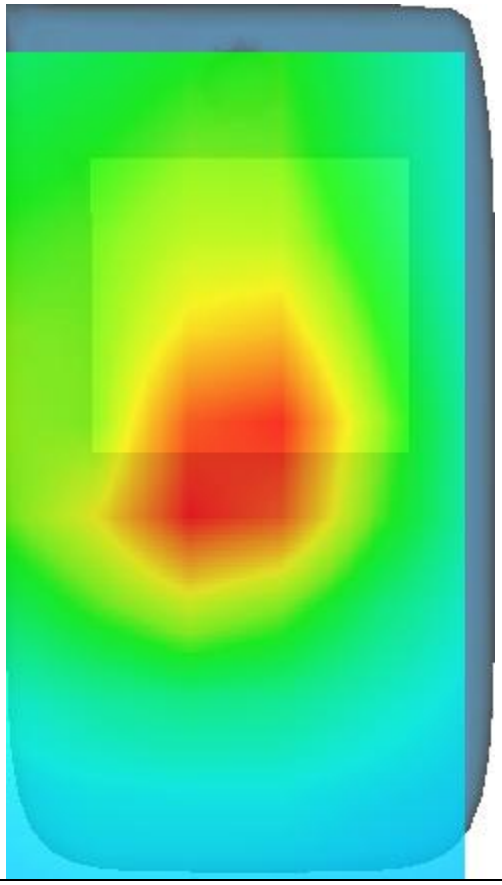
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-5.00, Y=-6.00
SAR Peak: 0.97 W/kg

SAR 10g (W/Kg)	0.270427
SAR 1g (W/Kg)	0.552221

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9632	0.5569	0.2643	0.1292	0.0668	0.0382	0.0230



3D screen shot	Hot spot position
	

MEASUREMENT 7

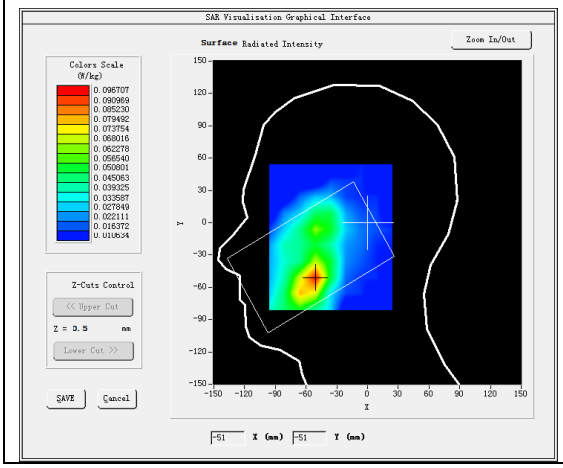
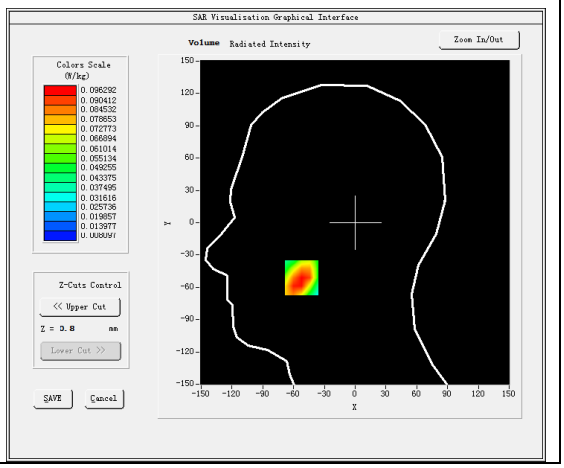
Date of measurement: 15/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band4_WCDMA1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

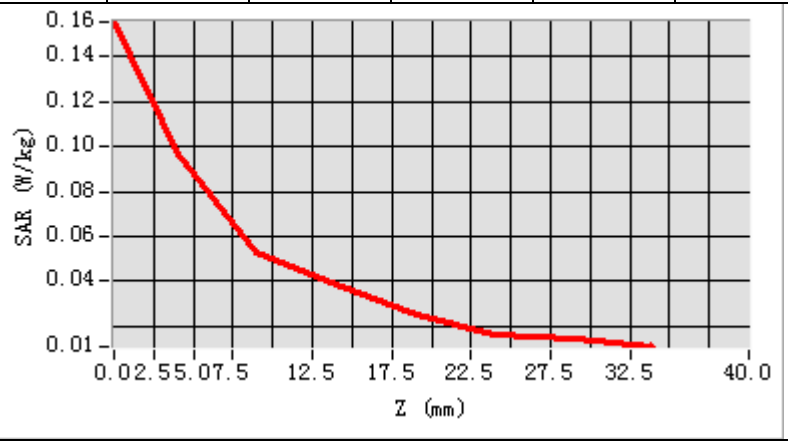
Frequency (MHz)	1732.600000
Relative permittivity (real part)	40.177555
Relative permittivity (imaginary part)	13.707423
Conductivity (S/m)	1.318959
Variation (%)	-2.050000

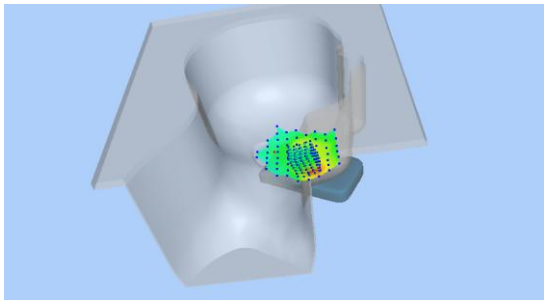
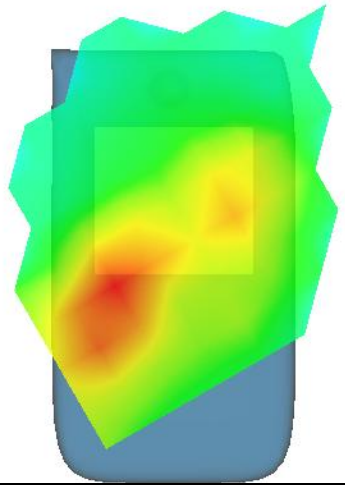
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-52.00, Y=-51.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.054494
SAR 1g (W/Kg)	0.095821

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1554	0.0963	0.0526	0.0390	0.0252	0.0166	0.0146



3D screen shot	Hot spot position
	

MEASUREMENT 8

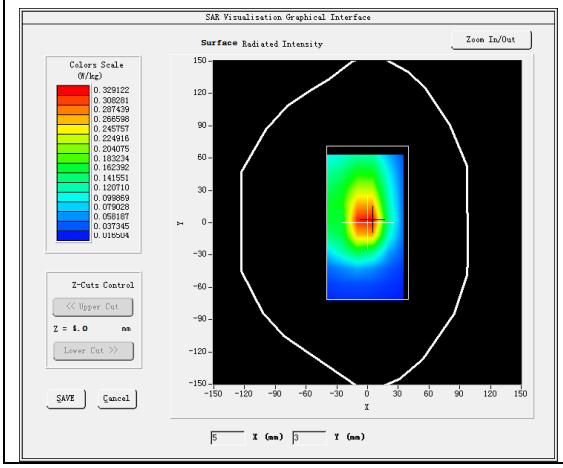
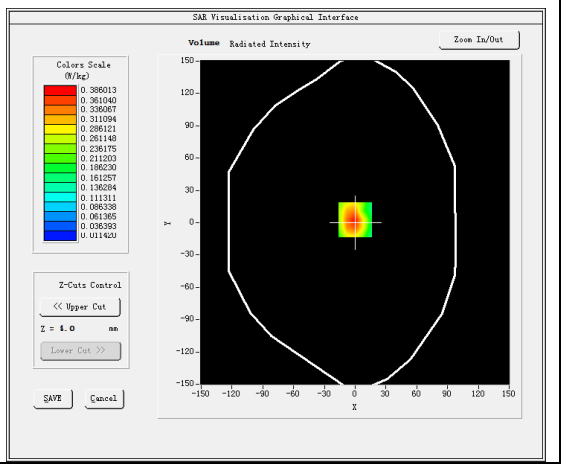
Date of measurement: 15/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	Band4_WCDMA1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

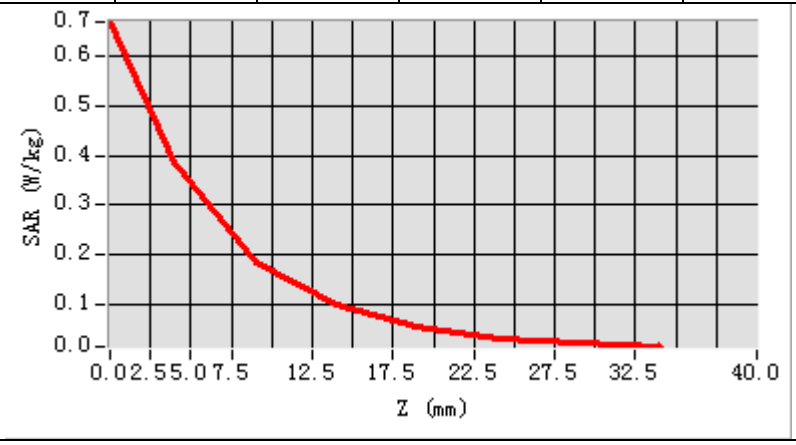
Frequency (MHz)	1732.600000
Relative permittivity (real part)	40.177555
Relative permittivity (imaginary part)	13.707423
Conductivity (S/m)	1.318959
Variation (%)	0.590000

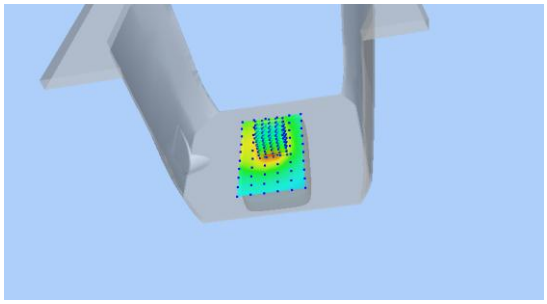
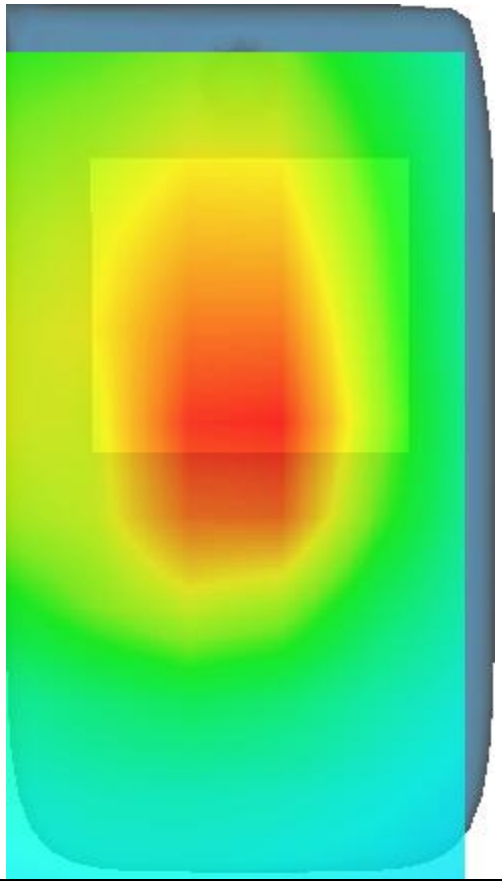
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=0.00, Y=3.00
SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.185884
SAR 1g (W/Kg)	0.370285

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6690	0.3860	0.1845	0.0999	0.0553	0.0319	0.0217



3D screen shot	Hot spot position
	

MEASUREMENT 9

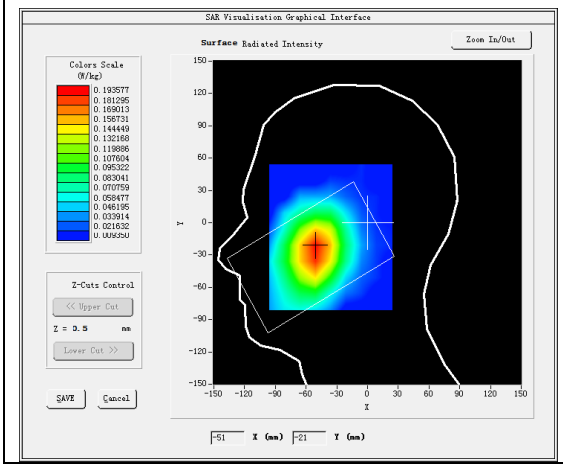
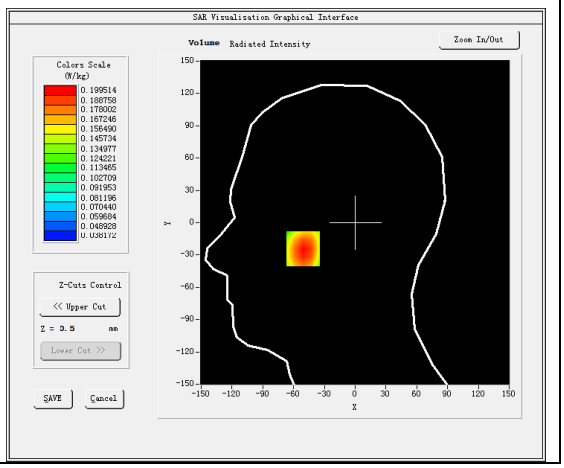
Date of measurement: 12/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

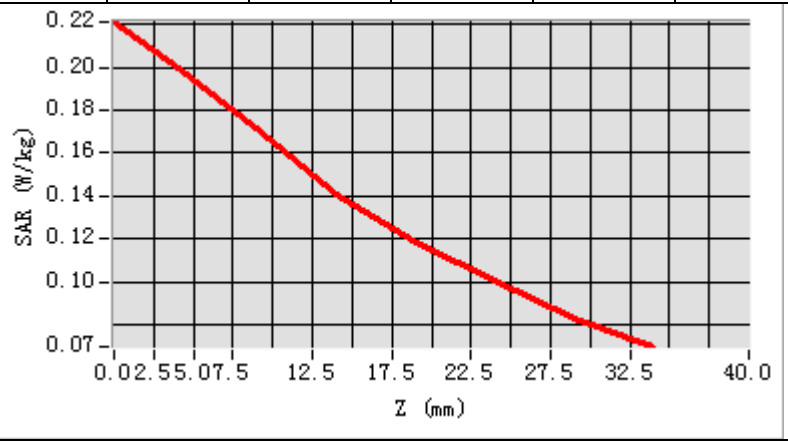
Frequency (MHz)	836.400000
Relative permittivity (real part)	42.704880
Relative permittivity (imaginary part)	19.961424
Conductivity (S/m)	0.927541
Variation (%)	1.020000

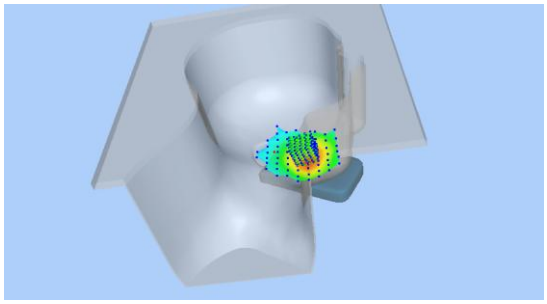
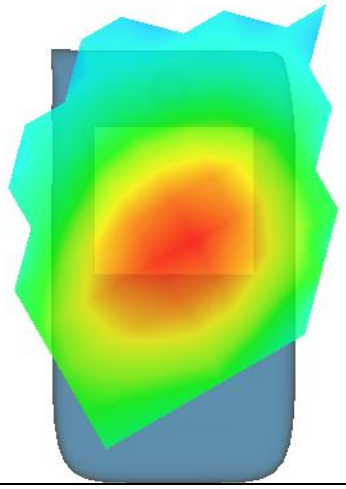
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-24.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.153046
SAR 1g (W/Kg)	0.196059

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2211	0.1995	0.1715	0.1410	0.1182	0.1008	0.0829



3D screen shot	Hot spot position
	

MEASUREMENT 10

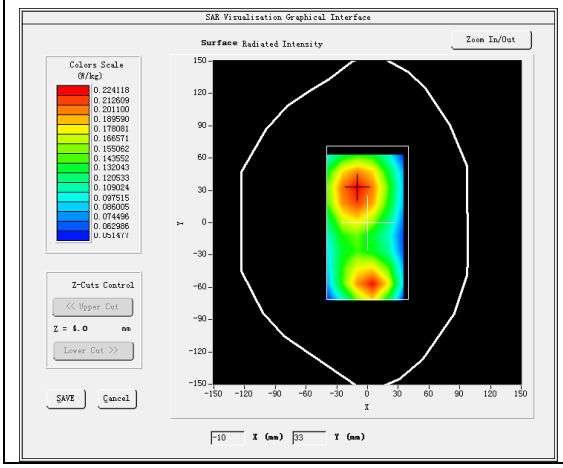
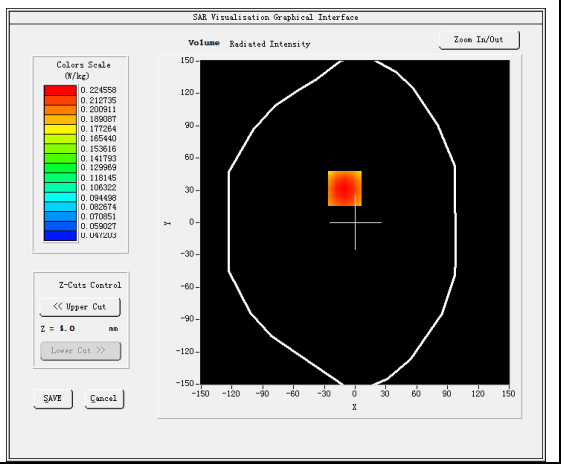
Date of measurement: 12/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

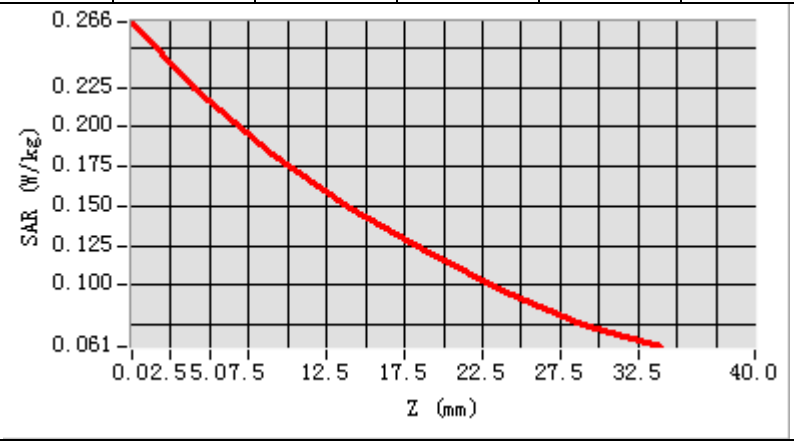
Frequency (MHz)	836.400000
Relative permittivity (real part)	42.704880
Relative permittivity (imaginary part)	19.961424
Conductivity (S/m)	0.927541
Variation (%)	0.140000

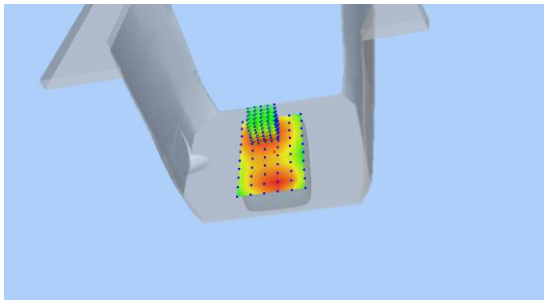
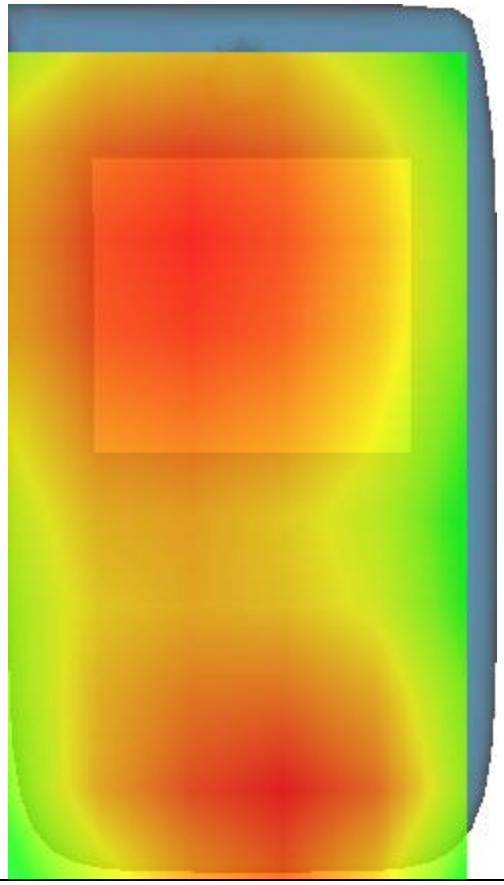
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=32.00
SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.172381
SAR 1g (W/Kg)	0.222952

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2665	0.2246	0.1830	0.1487	0.1207	0.0953	0.0753



3D screen shot	Hot spot position
	

MEASUREMENT 11

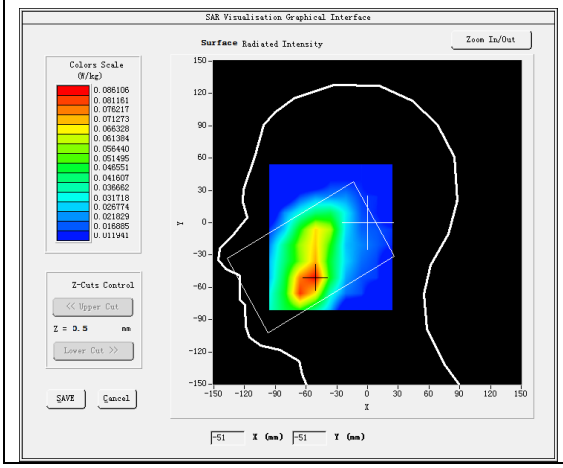
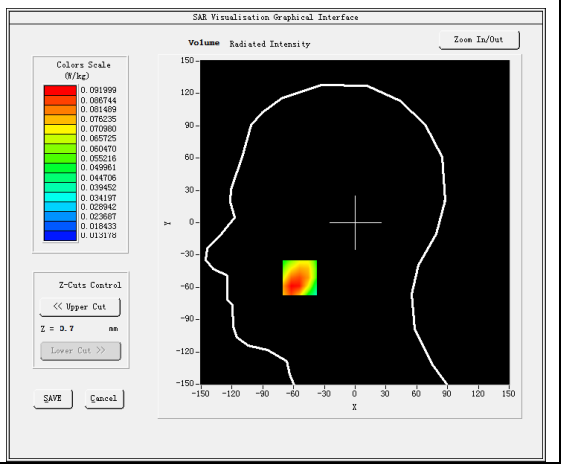
Date of measurement: 12/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	BC0
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	836.520000
Relative permittivity (real part)	42.694518
Relative permittivity (imaginary part)	19.966783
Conductivity (S/m)	0.927923
Variation (%)	-3.590000

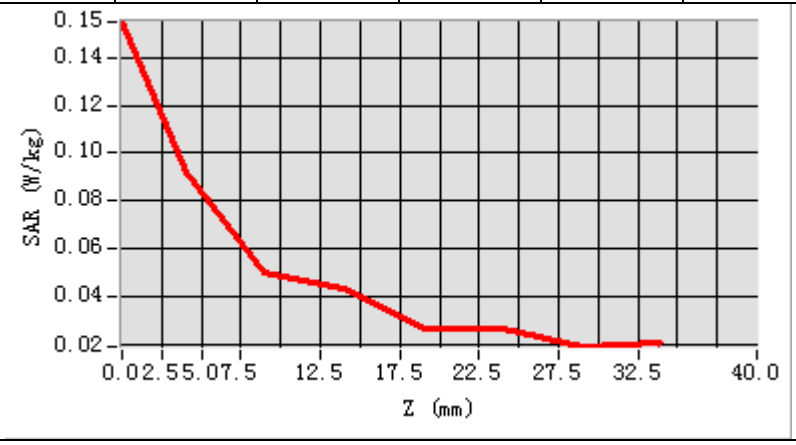
SURFACE SAR	VOLUME SAR
	

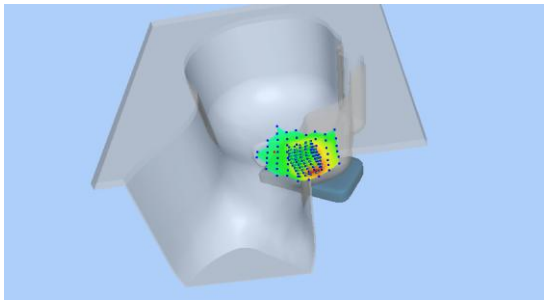
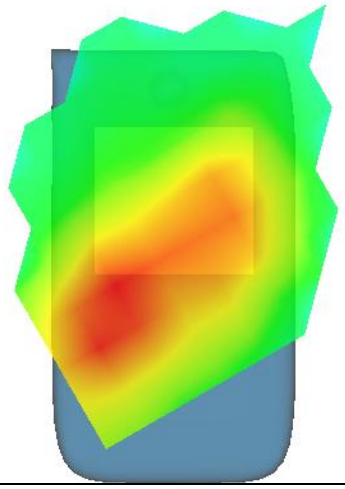
Maximum location: X=-54.00, Y=-51.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.058865
SAR 1g (W/Kg)	0.091619

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1548	0.0920	0.0500	0.0432	0.0268	0.0264	0.0190



3D screen shot	Hot spot position
	

MEASUREMENT 12

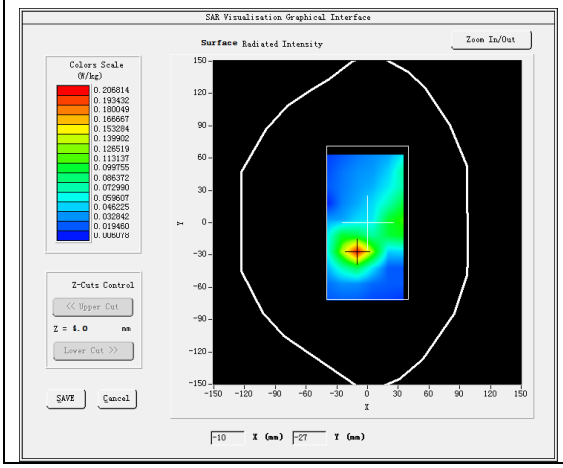
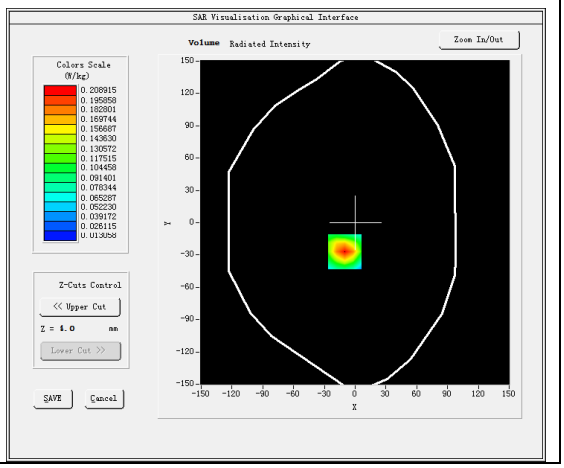
Date of measurement: 12/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	BC0
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

B. SAR Measurement Results

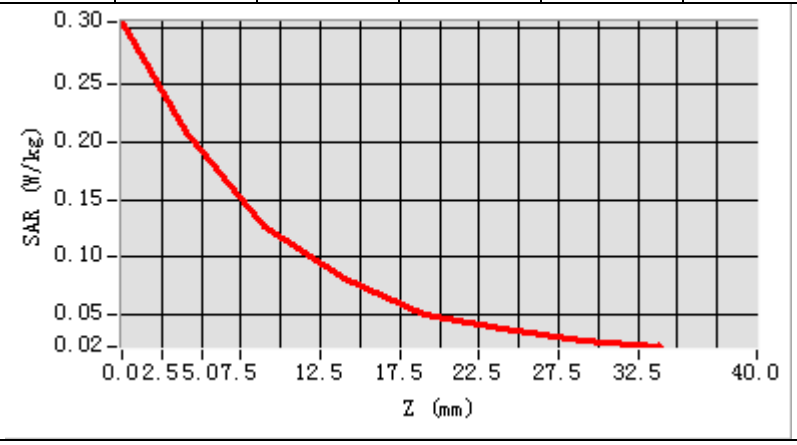
Frequency (MHz)	836.520000
Relative permittivity (real part)	42.694518
Relative permittivity (imaginary part)	19.966783
Conductivity (S/m)	0.927923
Variation (%)	-0.610000

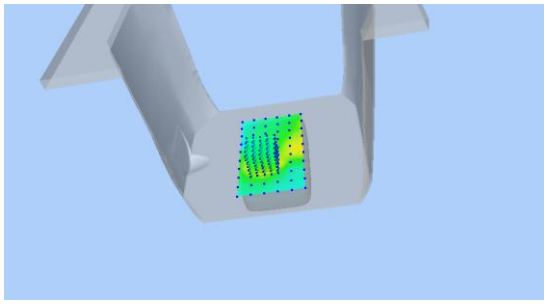
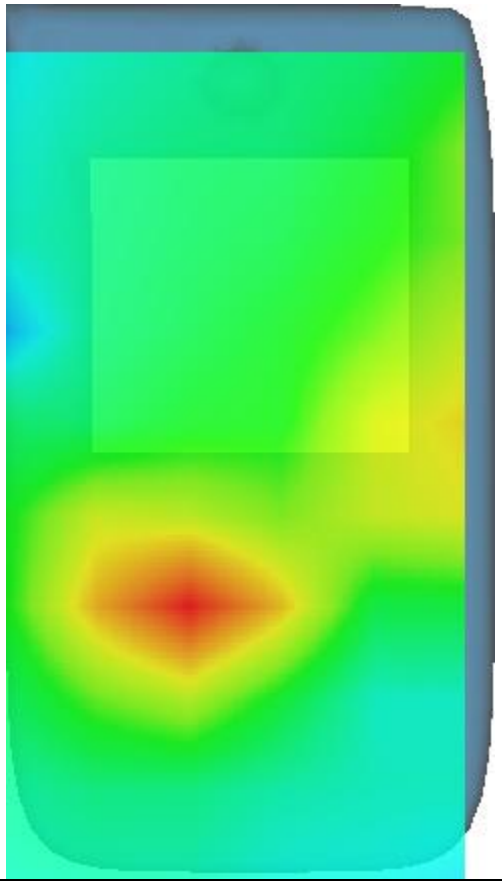
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-27.00
SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.110284
SAR 1g (W/Kg)	0.197173

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3045	0.2089	0.1276	0.0820	0.0495	0.0373	0.0267



3D screen shot	Hot spot position
	

MEASUREMENT 13

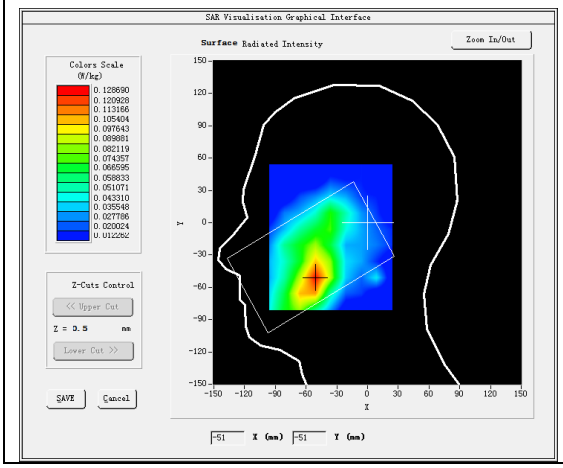
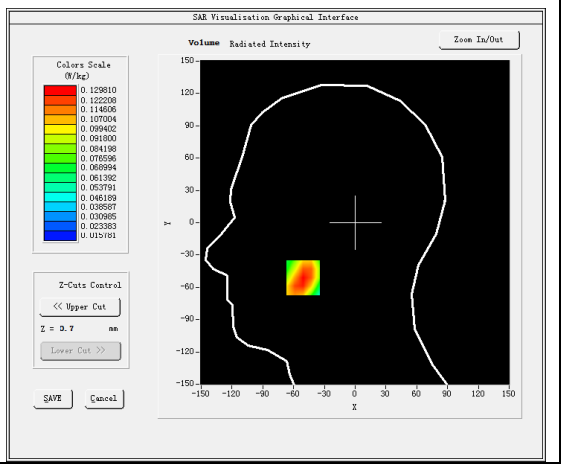
Date of measurement: 19/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	BC1
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

B. SAR Measurement Results

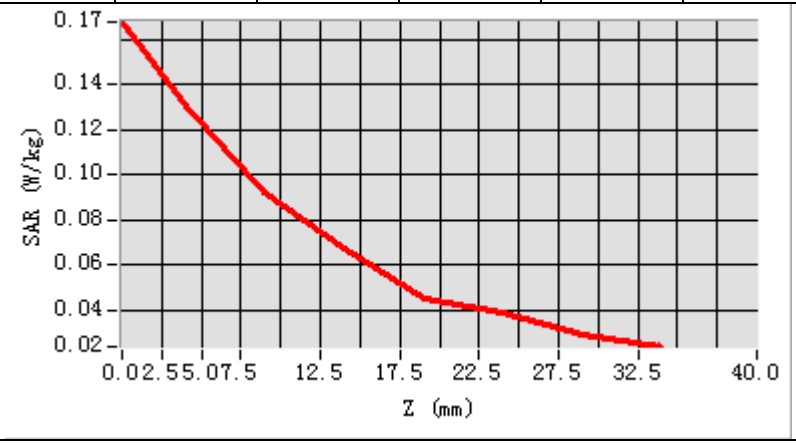
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	-4.620000

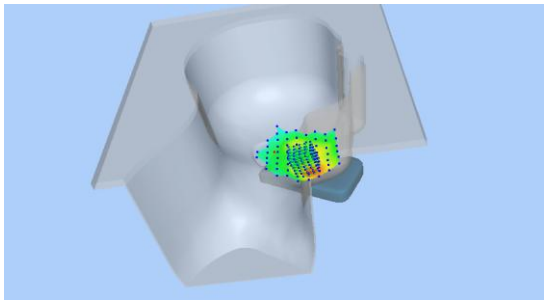
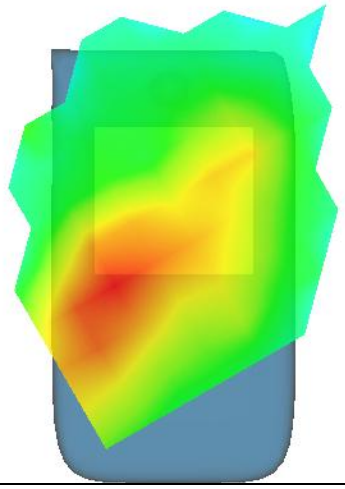
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.082351
SAR 1g (W/Kg)	0.123748

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1676	0.1298	0.0918	0.0672	0.0453	0.0385	0.0289



3D screen shot	Hot spot position
	

MEASUREMENT 14

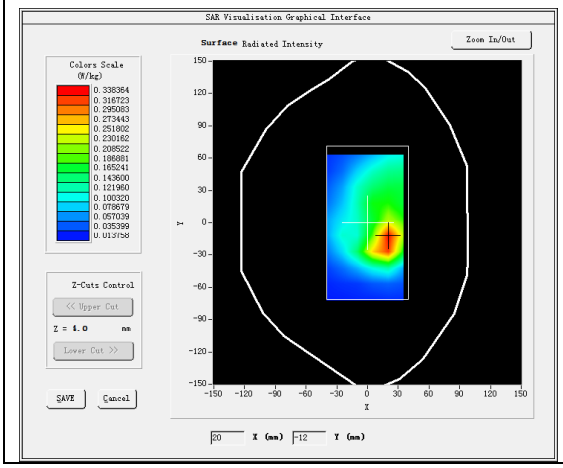
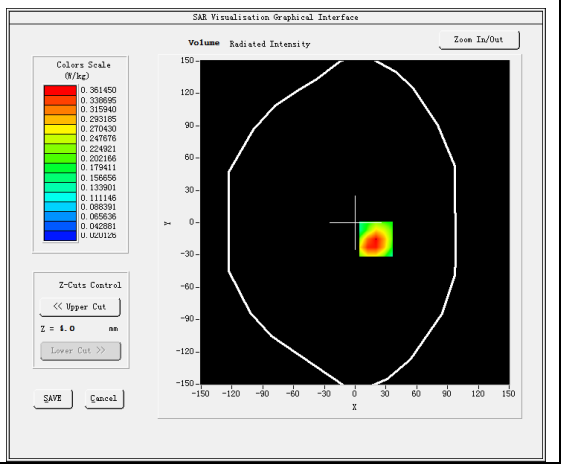
Date of measurement: 19/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	BC1
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

B. SAR Measurement Results

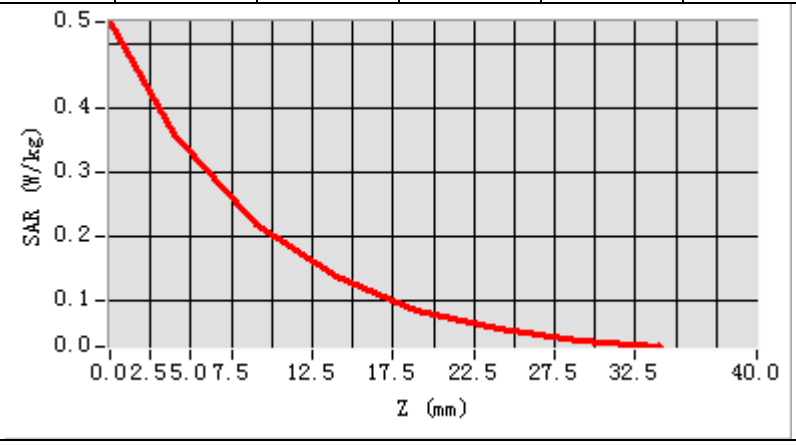
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	-3.000000

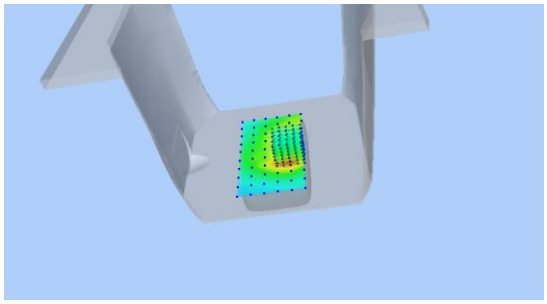
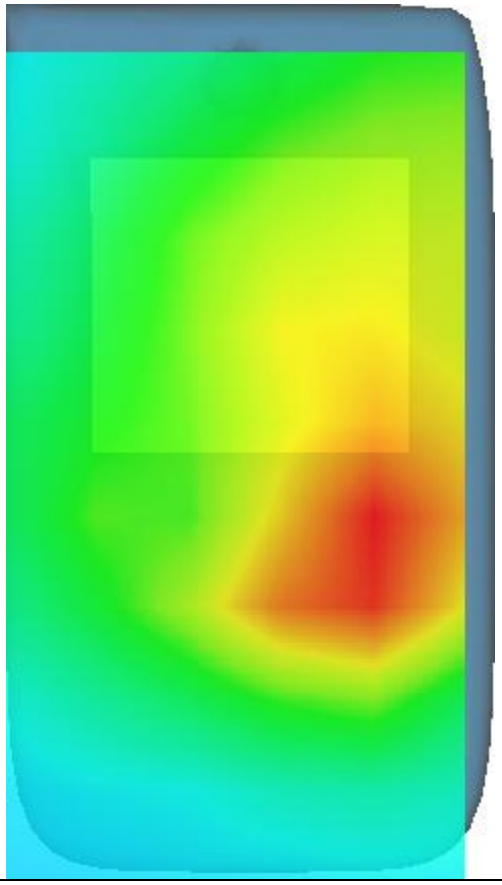
SURFACE SAR	VOLUME SAR
	

Maximum location: X=20.00, Y=-15.00
SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.198369
SAR 1g (W/Kg)	0.354668

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5358	0.3614	0.2179	0.1366	0.0844	0.0568	0.0386



3D screen shot	Hot spot position
	

MEASUREMENT 15

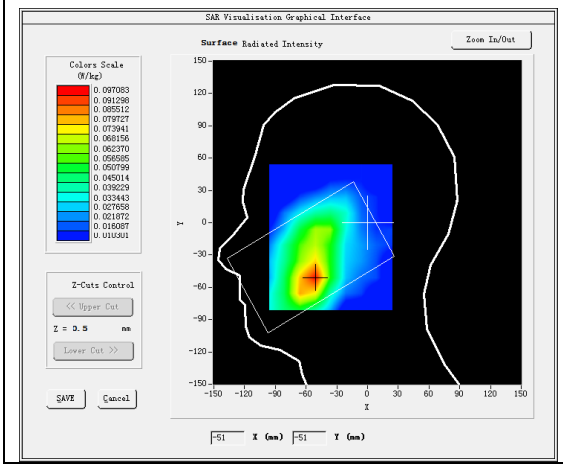
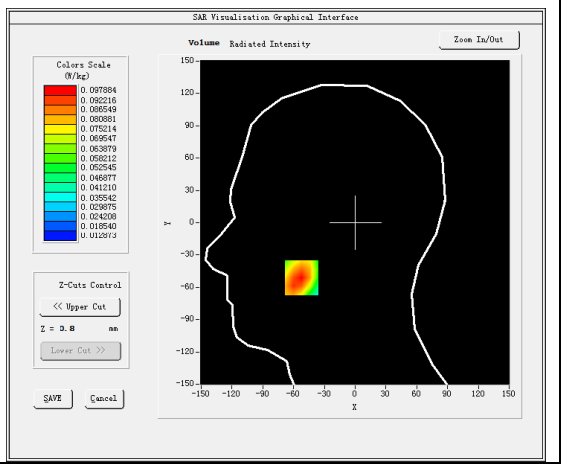
Date of measurement: 12/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	BC10
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	820.000000
Relative permittivity (real part)	42.950118
Relative permittivity (imaginary part)	19.883583
Conductivity (S/m)	0.905808
Variation (%)	0.130000

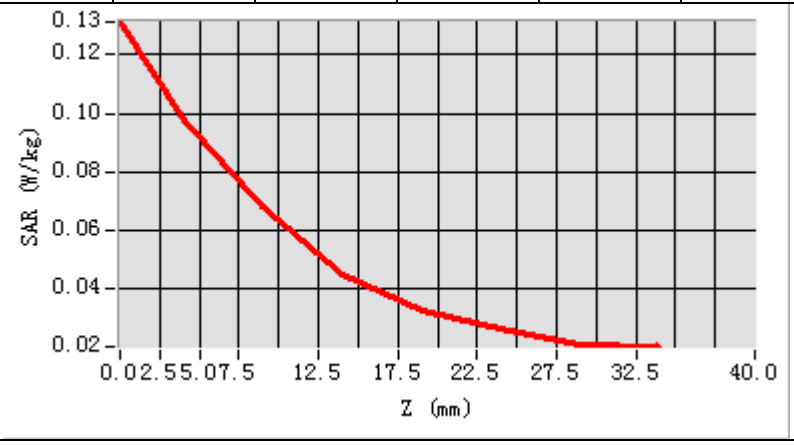
SURFACE SAR	VOLUME SAR
	

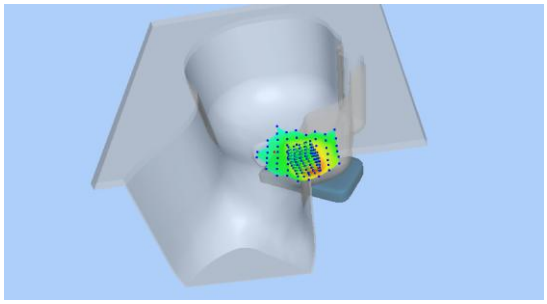
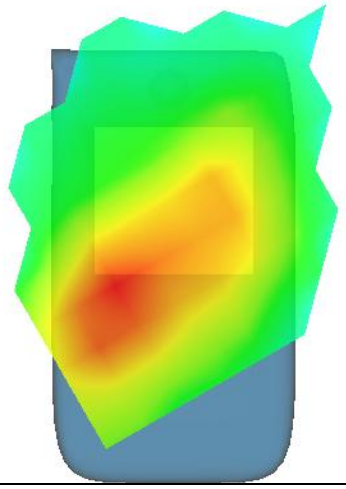
Maximum location: X=-52.00, Y=-51.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.061798
SAR 1g (W/Kg)	0.095008

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1312	0.0979	0.0679	0.0450	0.0328	0.0263	0.0212



3D screen shot	Hot spot position
	

MEASUREMENT 16

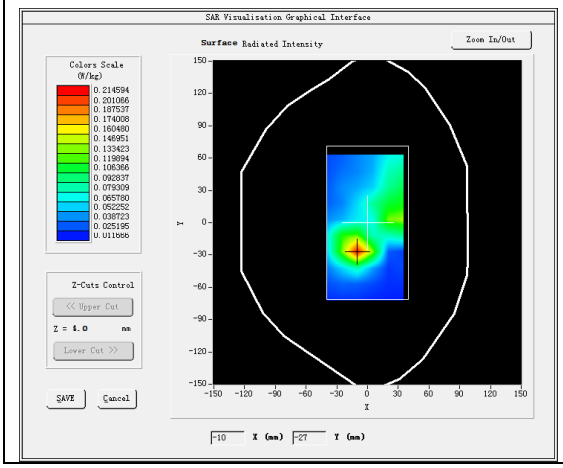
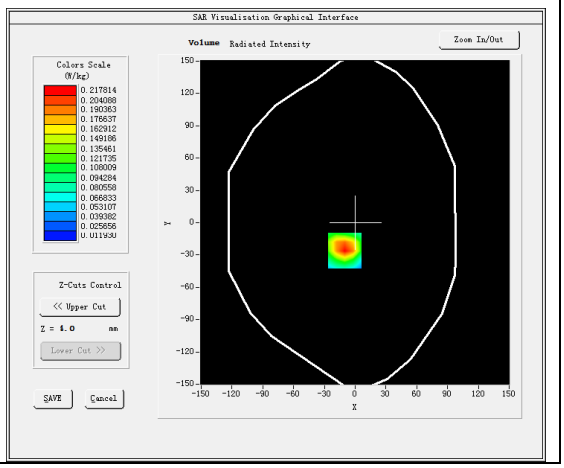
Date of measurement: 12/7/2021

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	BC10
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

B. SAR Measurement Results

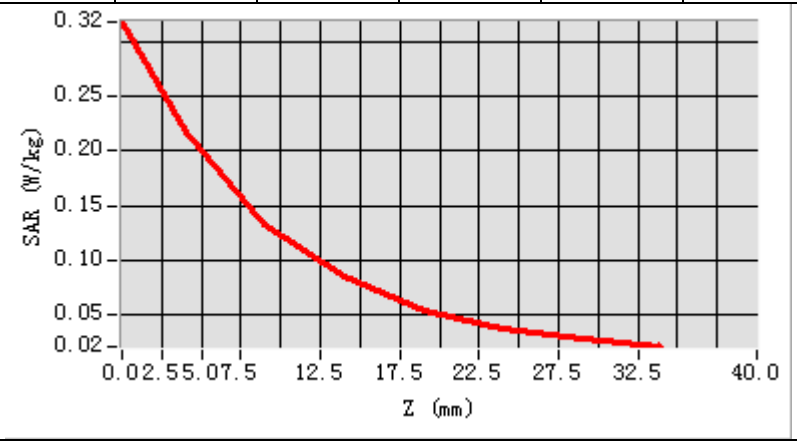
Frequency (MHz)	820.000000
Relative permittivity (real part)	42.950118
Relative permittivity (imaginary part)	19.883583
Conductivity (S/m)	0.905808
Variation (%)	-2.220000

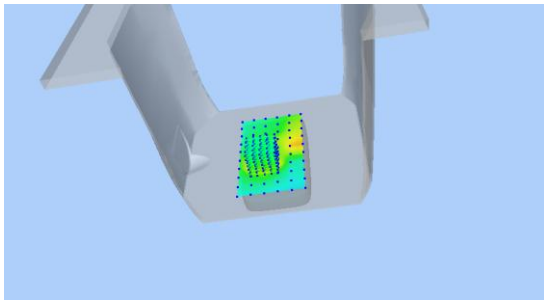
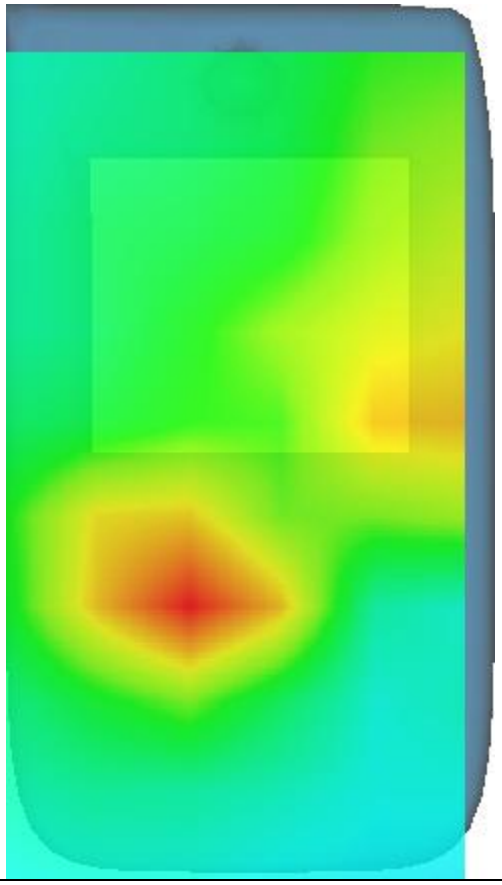
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-26.00
SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.115482
SAR 1g (W/Kg)	0.210730

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3185	0.2178	0.1330	0.0849	0.0534	0.0381	0.0281



3D screen shot	Hot spot position
	

MEASUREMENT 17

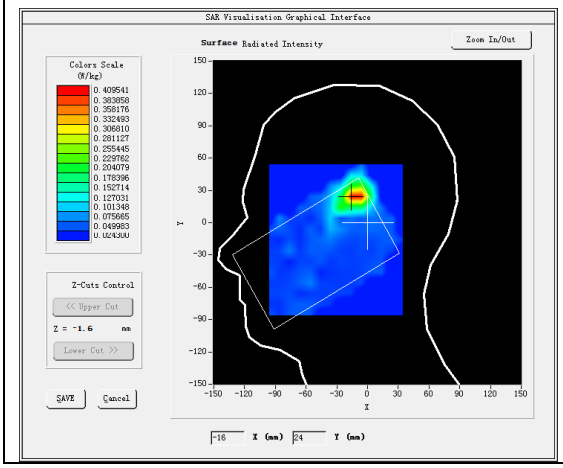
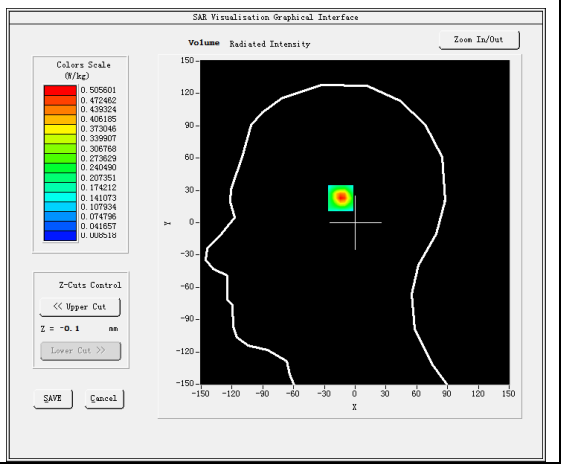
Date of measurement: 21/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

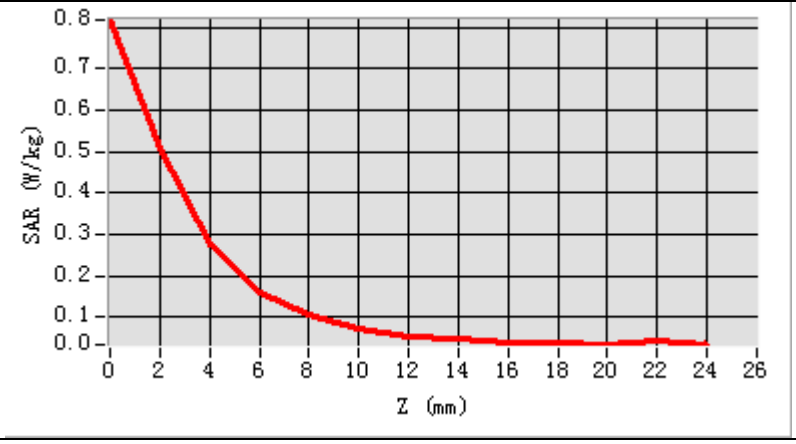
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.654324
Relative permittivity (imaginary part)	16.295177
Conductivity (S/m)	4.707496
Variation (%)	3.070000

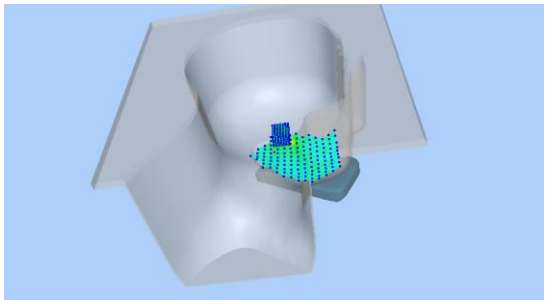
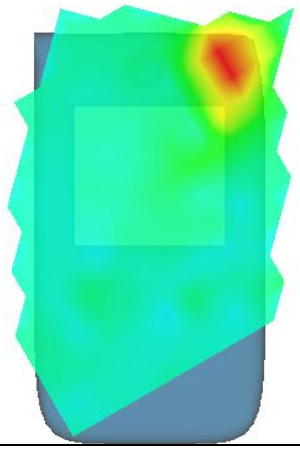
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-12.00, Y=25.00
SAR Peak: 1.27 W/kg

SAR 10g (W/Kg)	0.171411
SAR 1g (W/Kg)	0.459518

Z (mm)	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)	0.8171	0.5056	0.2753	0.1597	0.1082	0.0751	0.0514	0.0472	0.0389	0.0384	0.0358	0.0417



3D screen shot	Hot spot position
	

MEASUREMENT 18

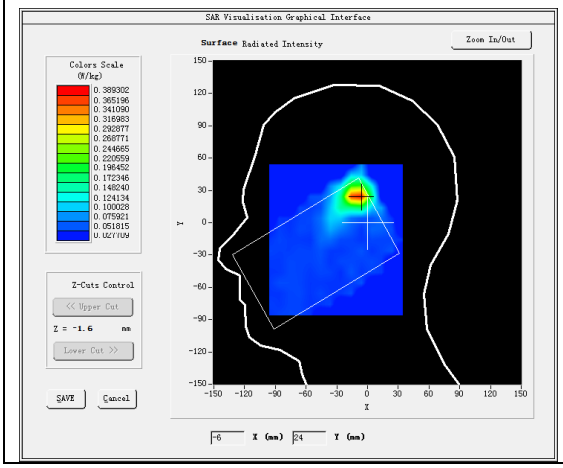
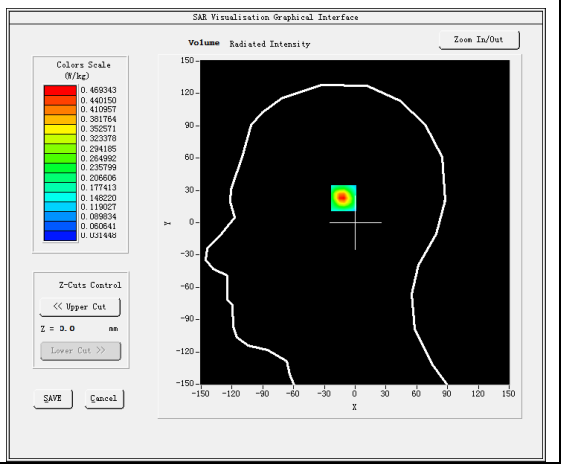
Date of measurement: 21/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

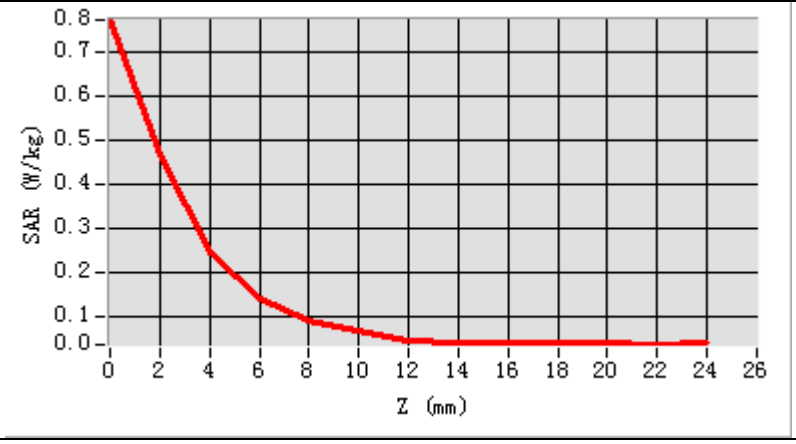
Frequency (MHz)	5280.000000
Relative permittivity (real part)	36.545128
Relative permittivity (imaginary part)	16.380337
Conductivity (S/m)	4.804899
Variation (%)	4.210000

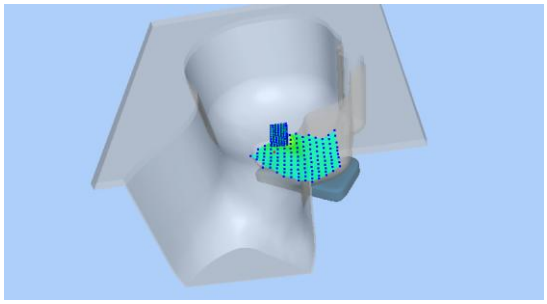
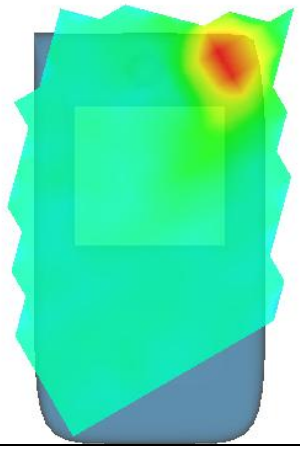
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-9.00, Y=25.00
SAR Peak: 1.22 W/kg

SAR 10g (W/Kg)	0.163767
SAR 1g (W/Kg)	0.430046

Z (mm)	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)	0.7717	0.4693	0.2457	0.1425	0.0899	0.0693	0.0443	0.0397	0.0428	0.0419	0.0436	0.0373



3D screen shot	Hot spot position
	

MEASUREMENT 19

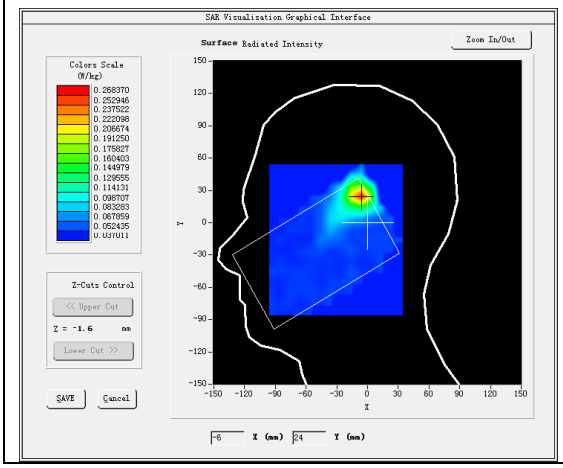
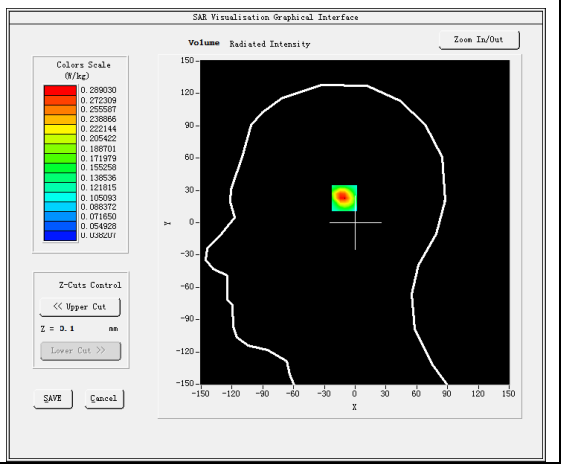
Date of measurement: 31/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

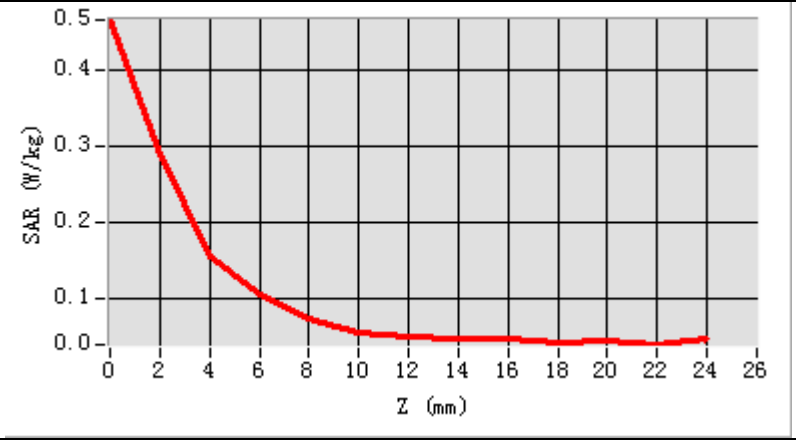
Frequency (MHz)	5590.000000
Relative permittivity (real part)	36.327609
Relative permittivity (imaginary part)	16.061132
Conductivity (S/m)	4.987874
Variation (%)	3.470000

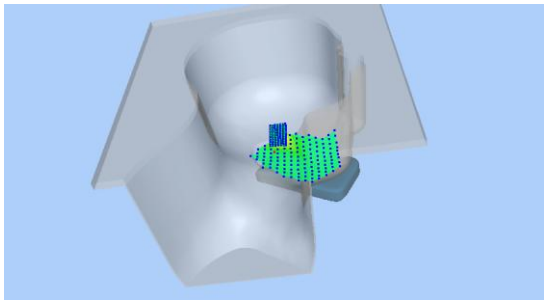
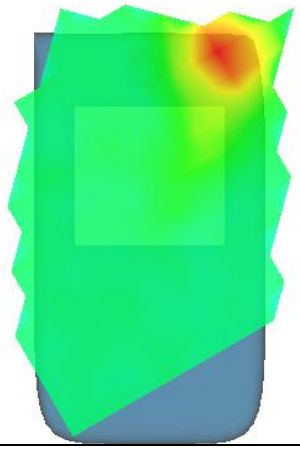
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=25.00
SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.123131
SAR 1g (W/Kg)	0.281750

Z (mm)	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)	0.4671	0.2890	0.1560	0.1049	0.0723	0.0559	0.0485	0.0477	0.0460	0.0424	0.0455	0.0390



3D screen shot	Hot spot position
	

MEASUREMENT 20

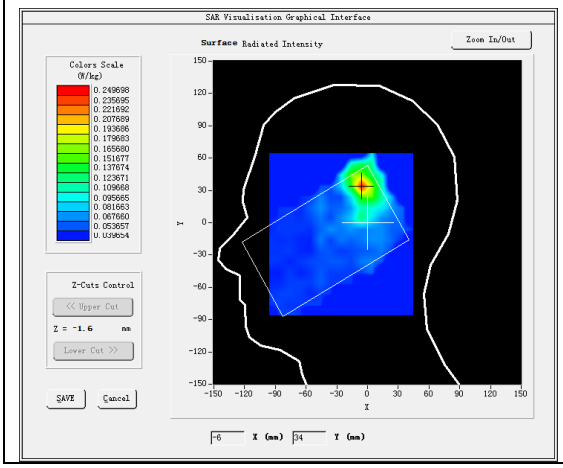
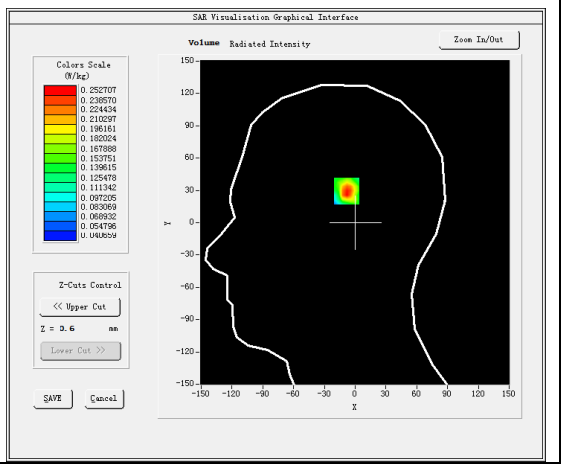
Date of measurement: 26/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

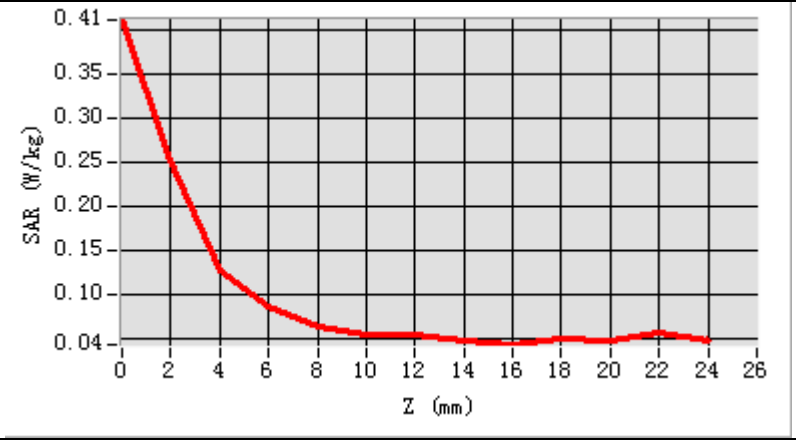
Frequency (MHz)	5785.000000
Relative permittivity (real part)	36.052410
Relative permittivity (imaginary part)	16.274469
Conductivity (S/m)	5.230434
Variation (%)	-0.650000

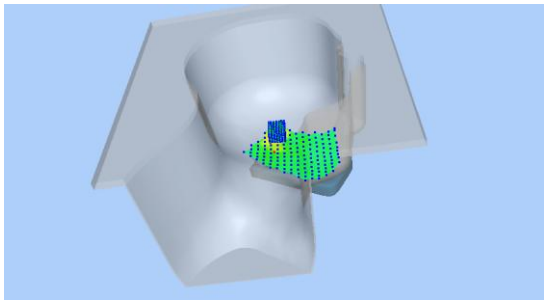
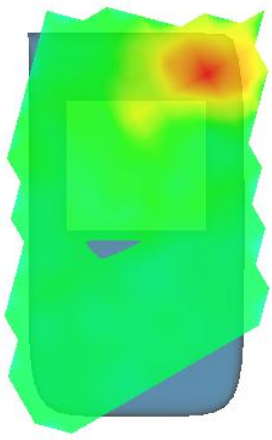
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=34.00
SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.117123
SAR 1g (W/Kg)	0.252895

Z (mm)	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)	0.4117	0.2527	0.1273	0.0860	0.0622	0.0535	0.0538	0.0474	0.0425	0.0500	0.0477	0.0558



3D screen shot	Hot spot position
	

MEASUREMENT 21

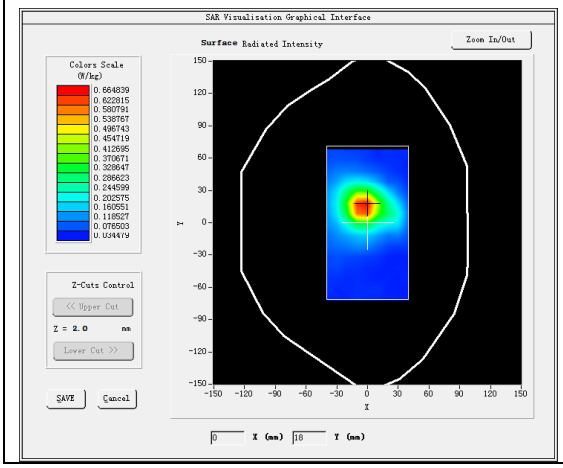
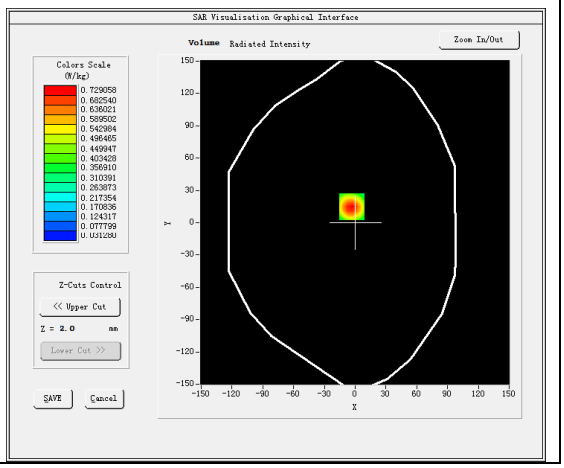
Date of measurement: 21/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

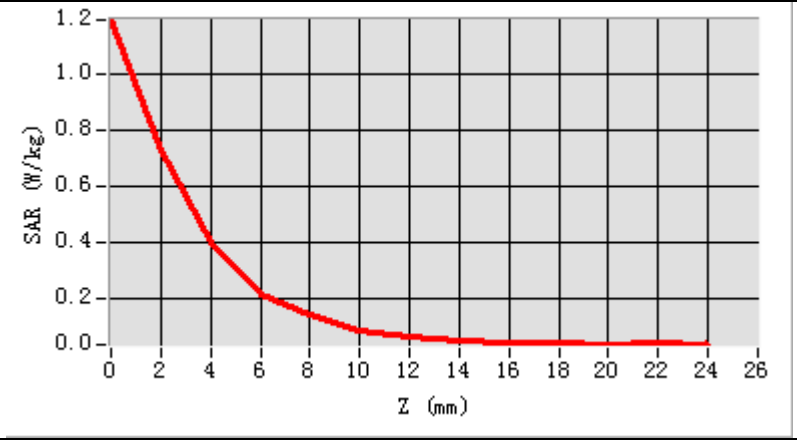
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.654324
Relative permittivity (imaginary part)	16.295177
Conductivity (S/m)	4.707496
Variation (%)	-2.020000

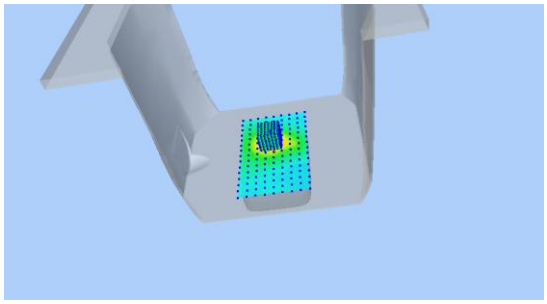
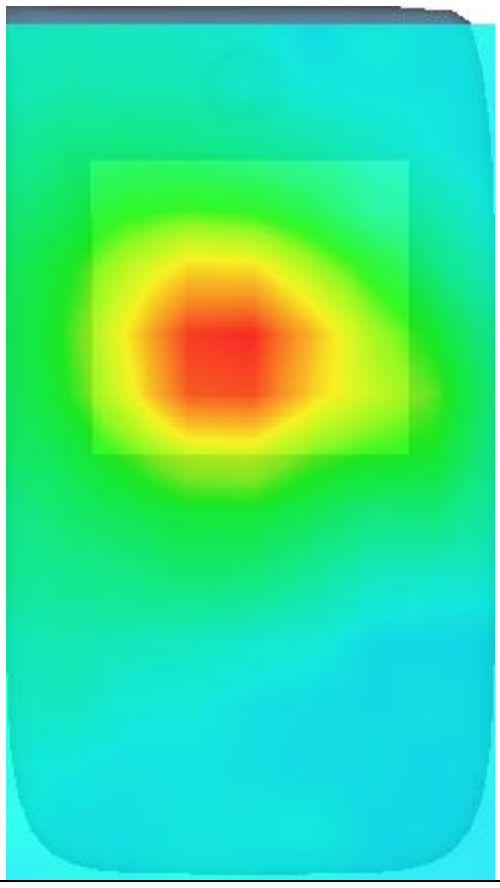
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-3.00, Y=15.00
SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	0.197163
SAR 1g (W/Kg)	0.442654

Z (mm)	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)	1.1942	0.7291	0.3973	0.2142	0.1409	0.0836	0.0609	0.0474	0.0424	0.0410	0.0365	0.0412



3D screen shot	Hot spot position
	

MEASUREMENT 22

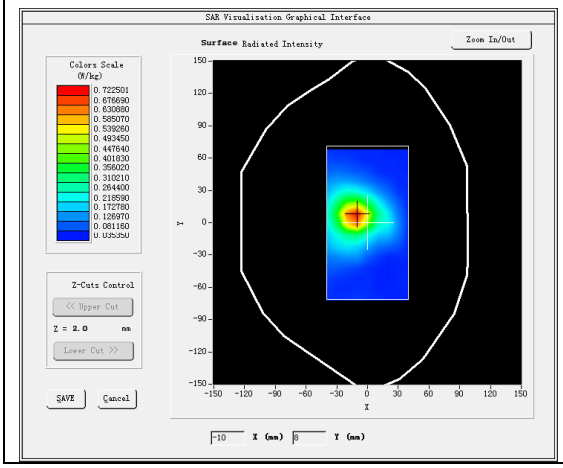
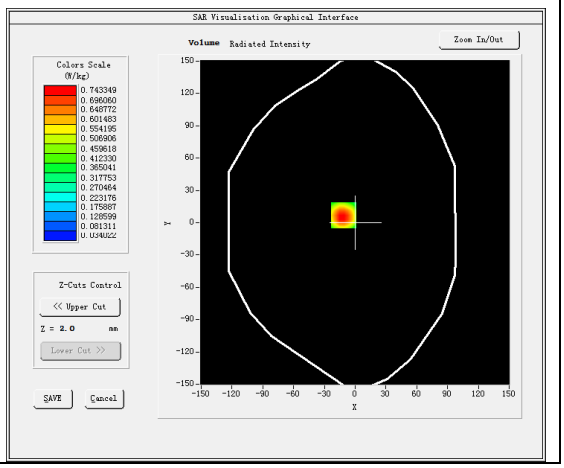
Date of measurement: 21/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

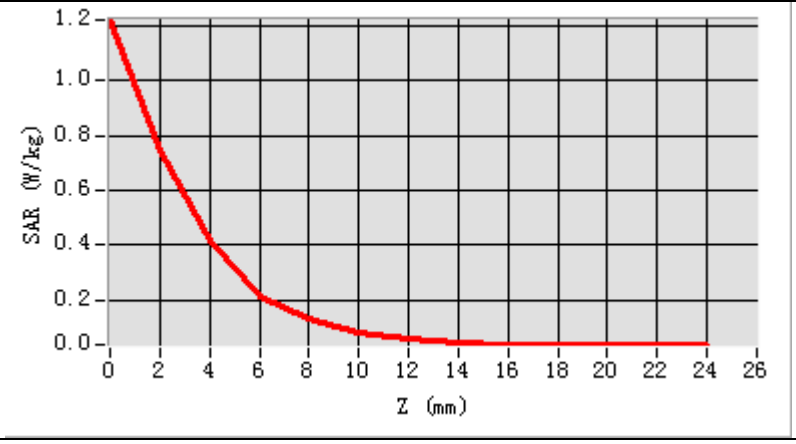
Frequency (MHz)	5280.000000
Relative permittivity (real part)	36.545128
Relative permittivity (imaginary part)	16.380337
Conductivity (S/m)	4.804899
Variation (%)	-0.280000

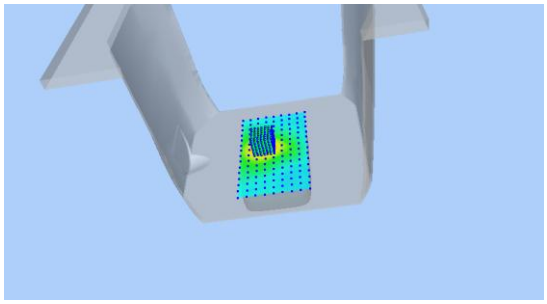
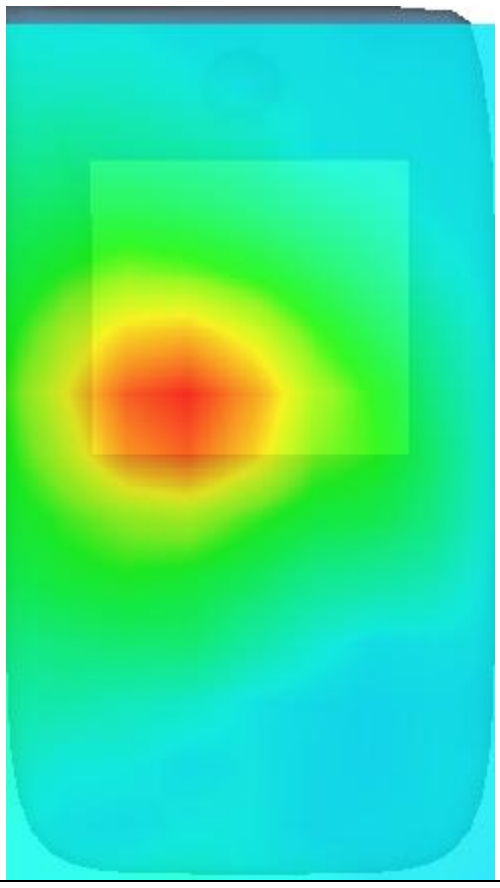
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-11.00, Y=7.00
SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.206805
SAR 1g (W/Kg)	0.461956

Z (mm)	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)	1.2217	0.7433	0.4169	0.2148	0.1347	0.0838	0.0591	0.0448	0.0390	0.0375	0.0384	0.0391



3D screen shot	Hot spot position
	

MEASUREMENT 23

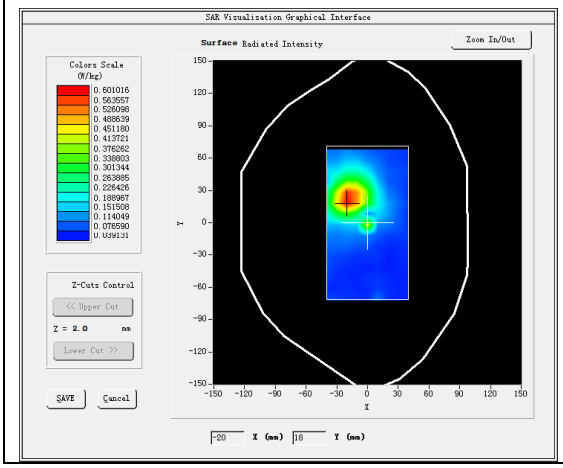
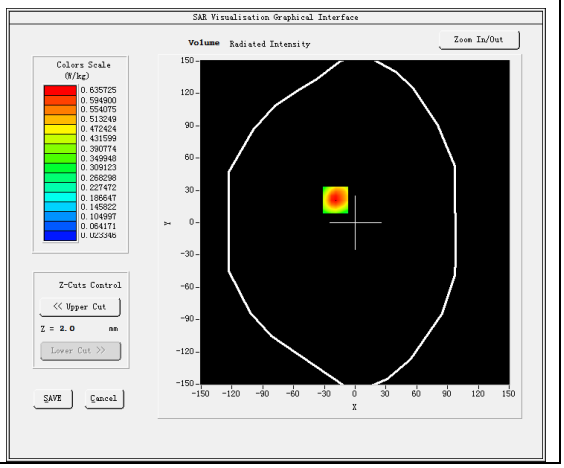
Date of measurement: 31/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

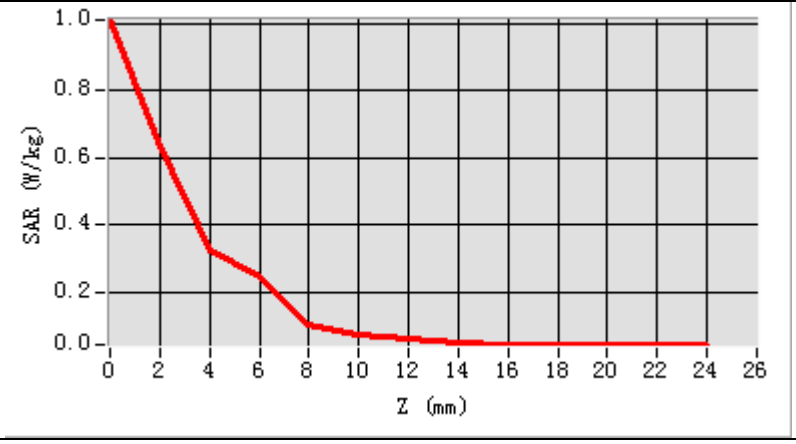
Frequency (MHz)	5590.000000
Relative permittivity (real part)	36.327609
Relative permittivity (imaginary part)	16.061132
Conductivity (S/m)	4.987874
Variation (%)	3.730000

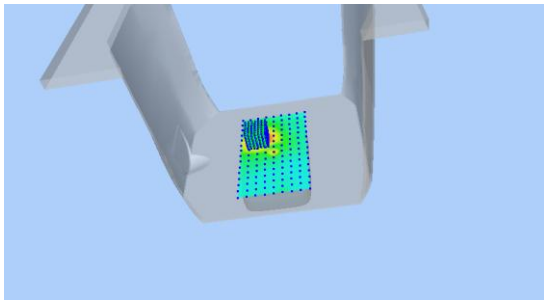
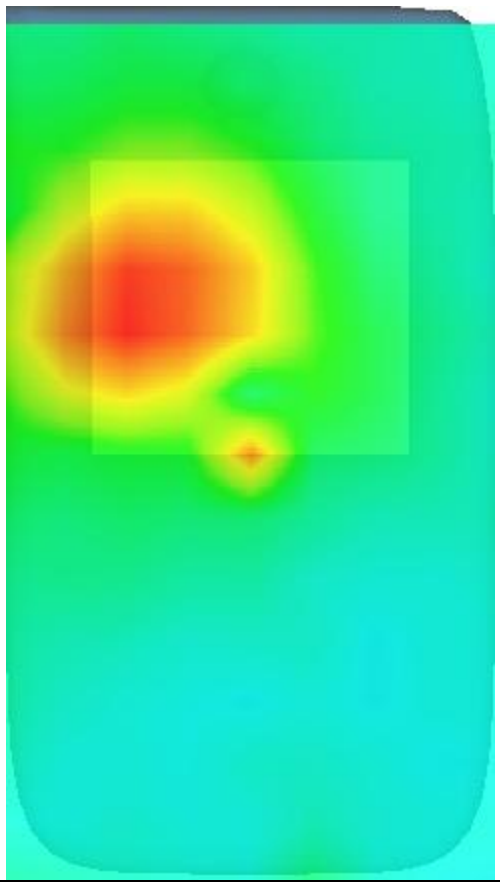
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-19.00, Y=21.00
SAR Peak: 1.19 W/kg

SAR 10g (W/Kg)	0.180488
SAR 1g (W/Kg)	0.381910

Z (mm)	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)	1.0096	0.6357	0.3270	0.2492	0.1073	0.0778	0.0627	0.0529	0.0470	0.0455	0.0456	0.0464



3D screen shot	Hot spot position
	

MEASUREMENT 24

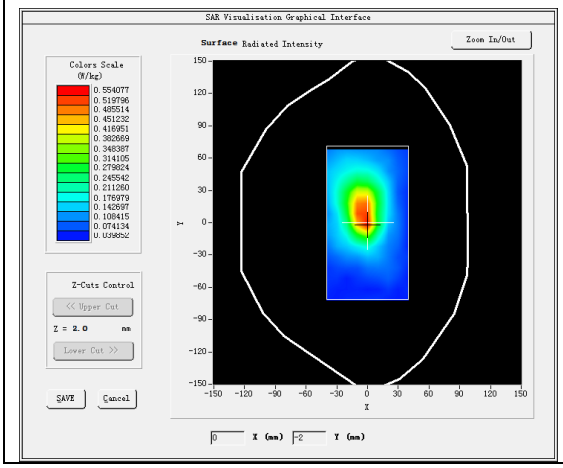
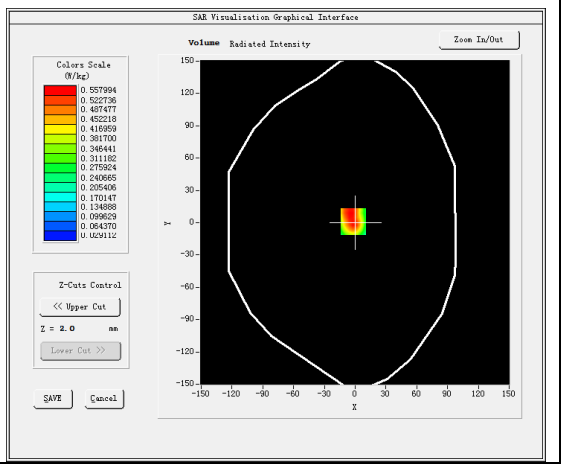
Date of measurement: 26/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

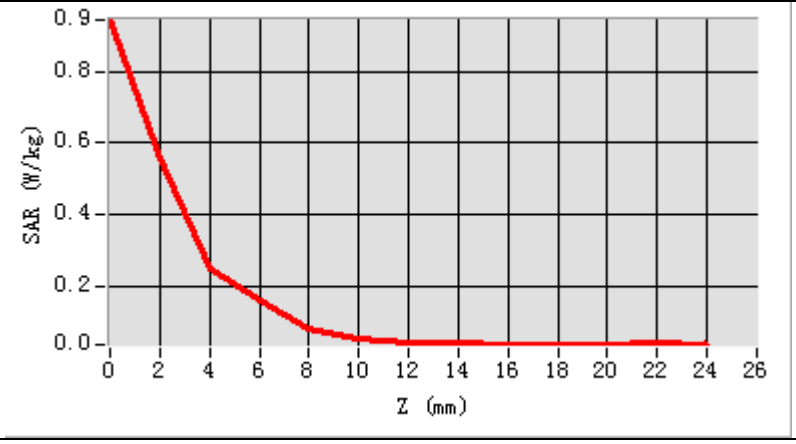
Frequency (MHz)	5785.000000
Relative permittivity (real part)	36.052410
Relative permittivity (imaginary part)	16.274469
Conductivity (S/m)	5.230434
Variation (%)	-2.160000

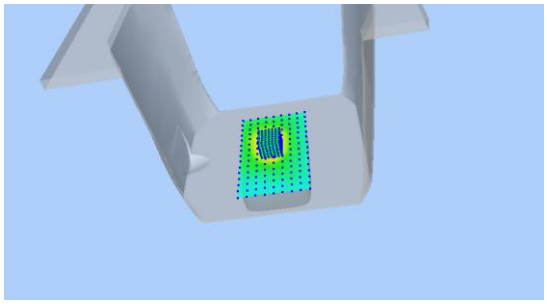
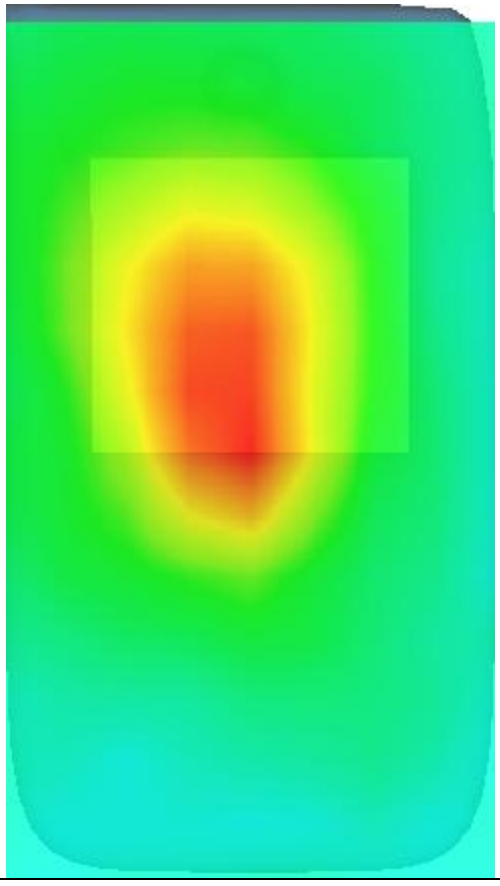
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=1.00
SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.163242
SAR 1g (W/Kg)	0.341597

Z (mm)	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)	0.9439	0.5580	0.2490	0.1594	0.0832	0.0562	0.0429	0.0404	0.0393	0.0398	0.0393	0.0417



3D screen shot	Hot spot position
	

MEASUREMENT 25

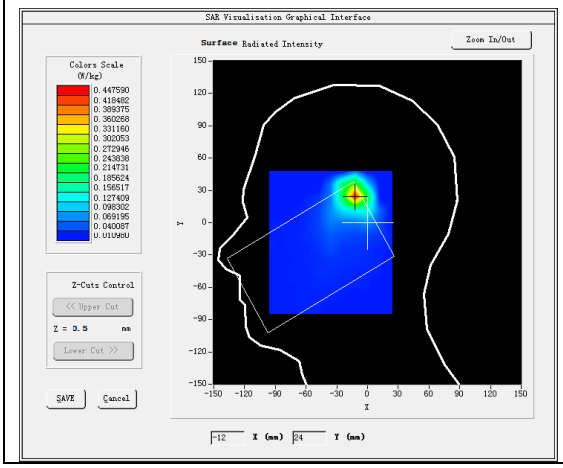
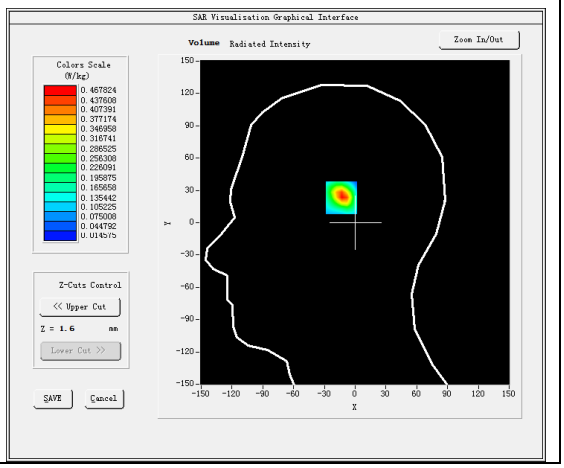
Date of measurement: 9/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

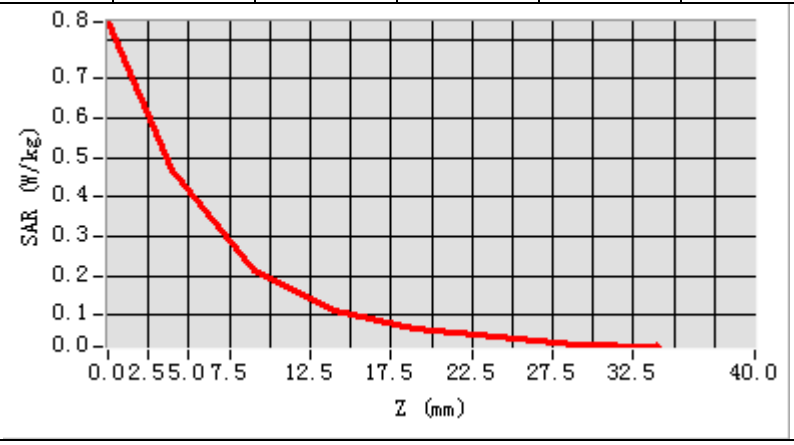
Frequency (MHz)	2437.000000
Relative permittivity (real part)	40.450199
Relative permittivity (imaginary part)	13.430357
Conductivity (S/m)	1.818321
Variation (%)	-4.120000

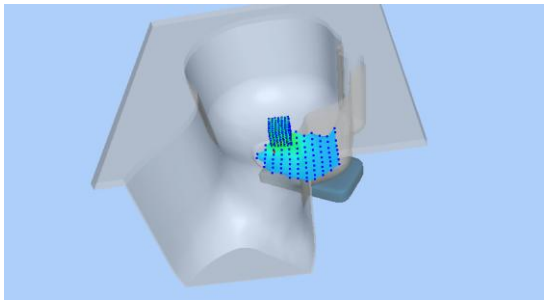
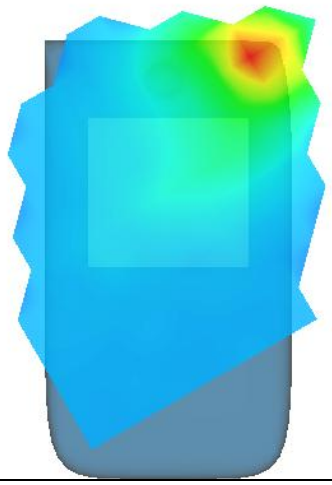
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-12.00, Y=25.00
SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.183592
SAR 1g (W/Kg)	0.419040

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8442	0.4678	0.2139	0.1117	0.0670	0.0454	0.0274



3D screen shot	Hot spot position
	

MEASUREMENT 26

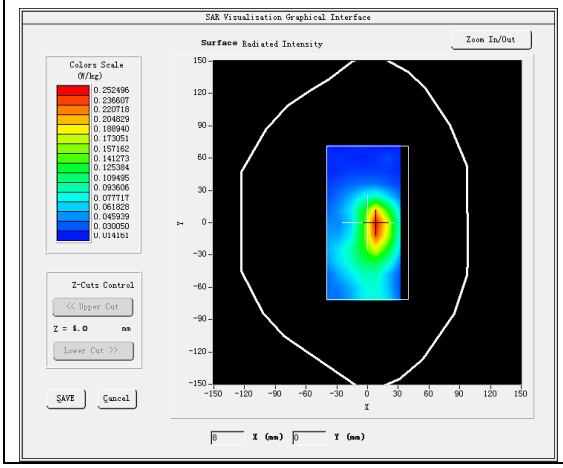
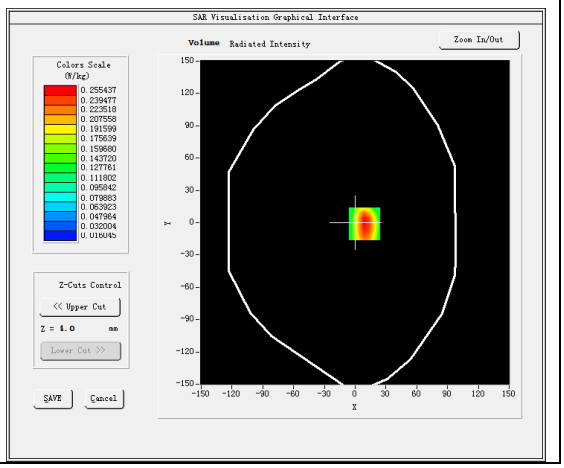
Date of measurement: 9/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

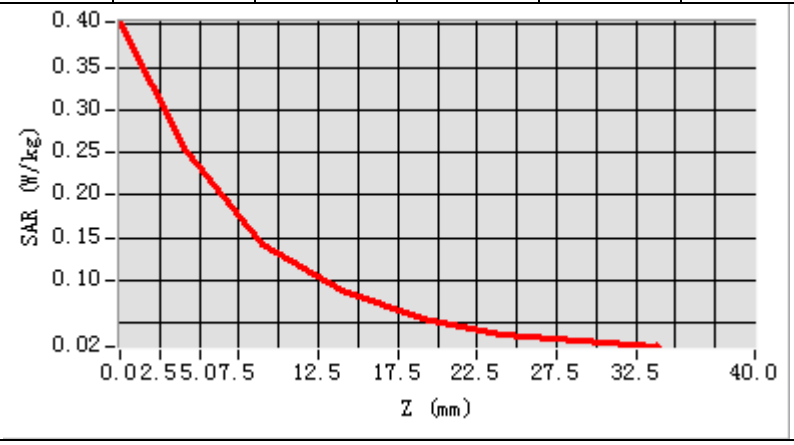
Frequency (MHz)	2437.000000
Relative permittivity (real part)	40.450199
Relative permittivity (imaginary part)	13.430357
Conductivity (S/m)	1.818321
Variation (%)	-1.400000

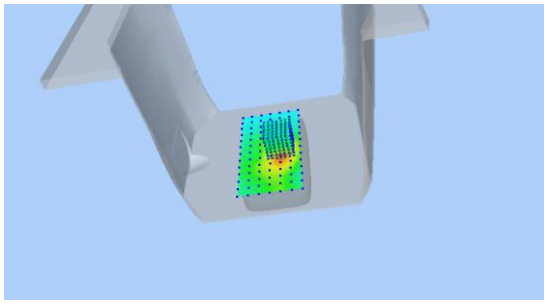
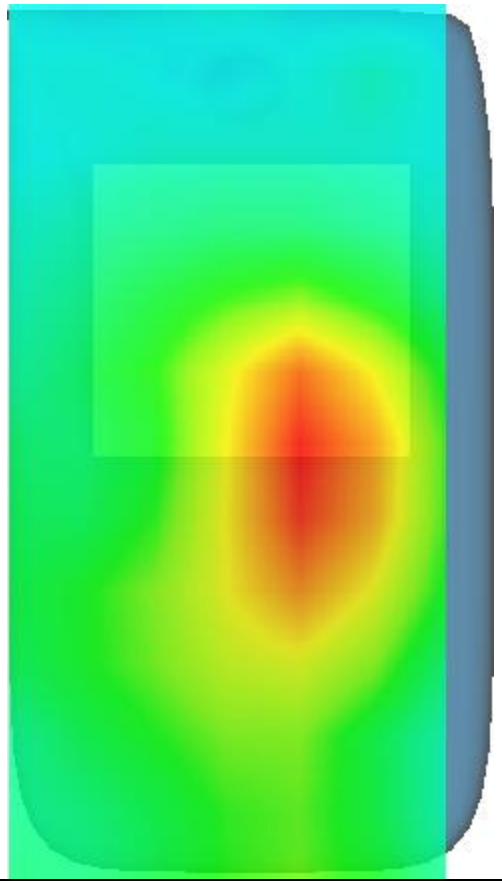
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-1.00
SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.134332
SAR 1g (W/Kg)	0.243195

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4031	0.2554	0.1428	0.0886	0.0563	0.0374	0.0288



3D screen shot	Hot spot position
	

MEASUREMENT 27

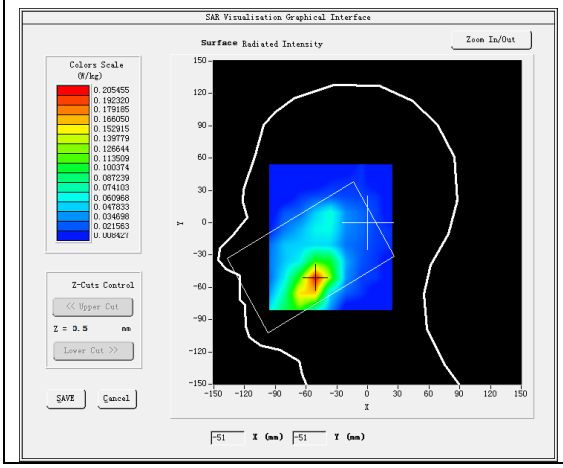
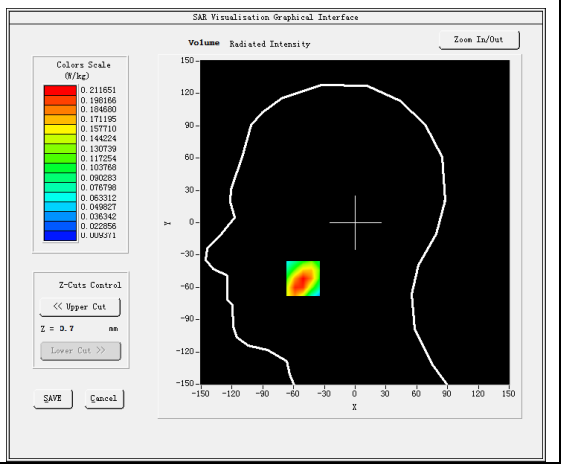
Date of measurement: 19/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

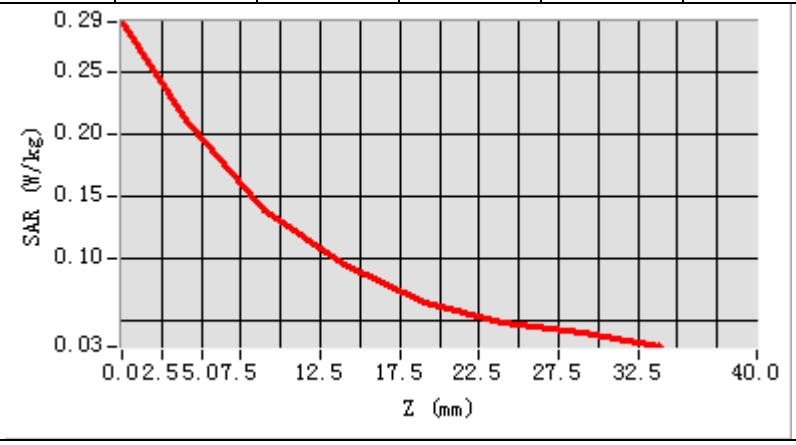
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	1.650000

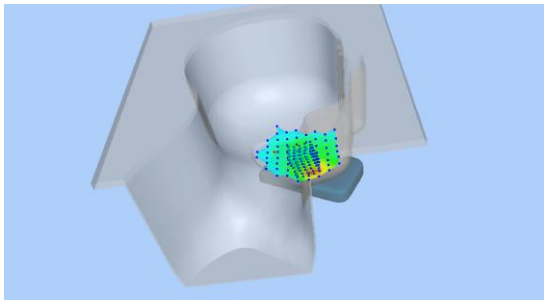
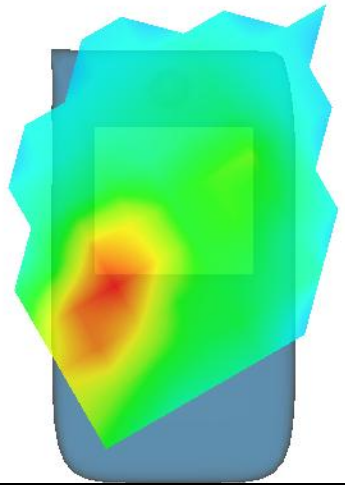
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-52.00
SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.123911
SAR 1g (W/Kg)	0.212007

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2908	0.2117	0.1391	0.0944	0.0650	0.0479	0.0399



3D screen shot	Hot spot position
	

MEASUREMENT 28

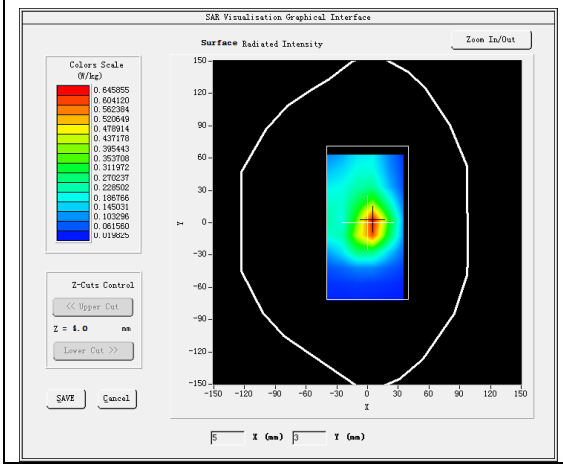
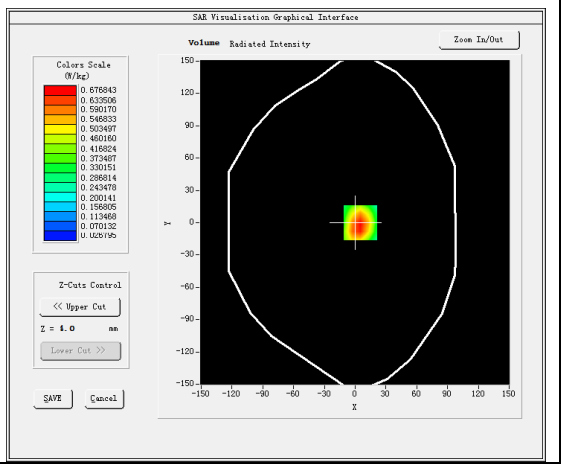
Date of measurement: 19/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

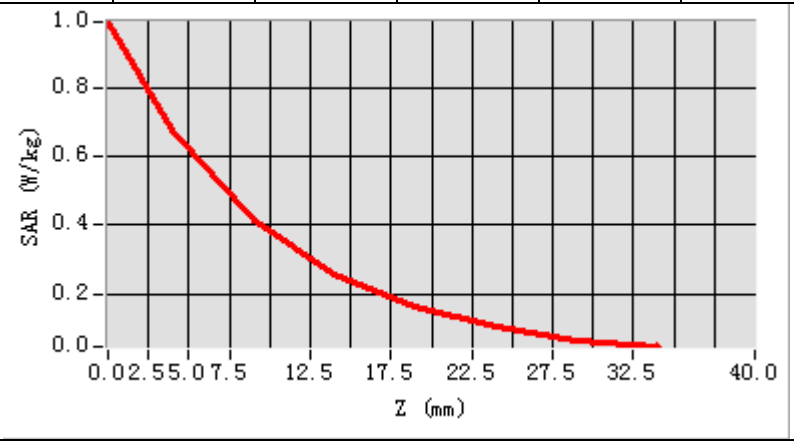
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.526512
Relative permittivity (imaginary part)	13.733387
Conductivity (S/m)	1.434376
Variation (%)	-0.110000

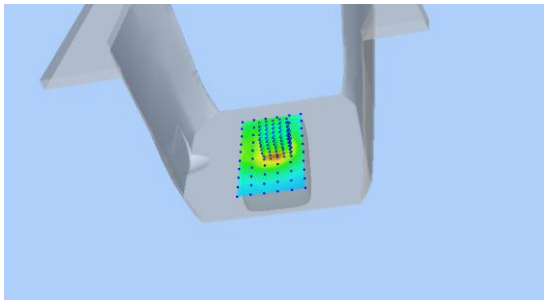
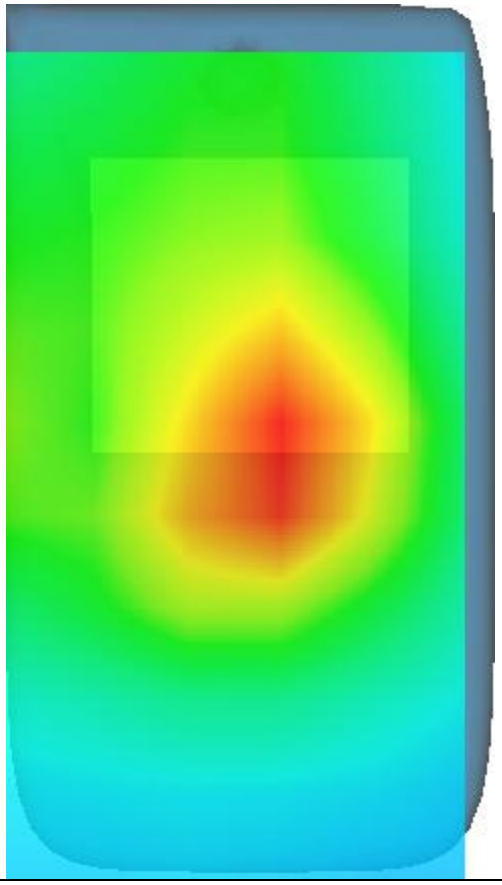
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=0.00
SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.370387
SAR 1g (W/Kg)	0.653176

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9947	0.6768	0.4159	0.2585	0.1632	0.1018	0.0643



3D screen shot	Hot spot position
	

MEASUREMENT 29

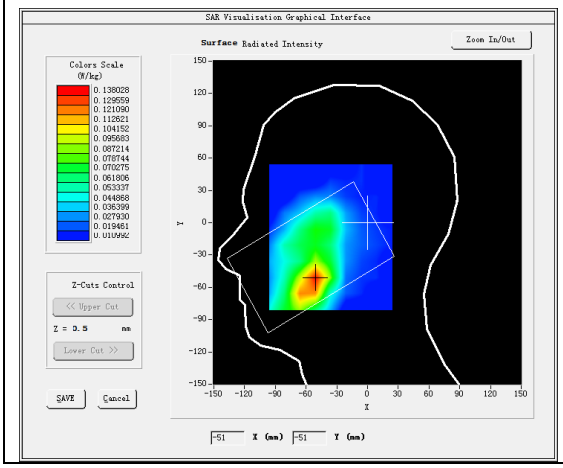
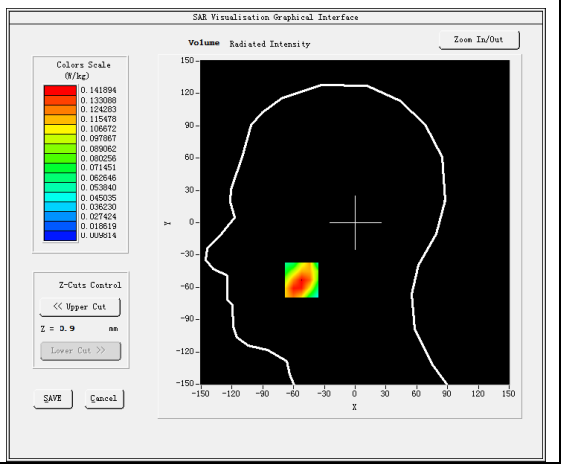
Date of measurement: 15/7/2021

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.185455
Relative permittivity (imaginary part)	13.692273
Conductivity (S/m)	1.317881
Variation (%)	0.010000

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-52.00, Y=-53.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.087186
SAR 1g (W/Kg)	0.136076