FCC SAR TEST REPORT

Report No.: STS2006255H01

Issued for

XTRATECH COMPUTERS S.A

Ciudadela Profesor Aguirre Abad, solar 40, manzana 118, Guayaquil, Ecuador.

Product Name:	Tablet PC
Brand Name:	XTRATECH
Model Name:	X8MT87
Series Model:	N/A
FCC ID:	2ADVA-X8MT87
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Report SAR (1g):	Head: 0.224 W/kg
	Body: 1.094 W/kg

ShenZhen STS Test Services Co.,Ltd.
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Test Report Certification

Applicant's name	:	XTRATECH COMPUTERS S.A
Address	:	Ciudadela Profesor Aguirre Abad, solar 40, manzana 118, Guayaquil, Ecuador.
Manufacture's Name	:	Shenzhen Jilicheng Technology Co.,Ltd
Address	:	2ND FLOOR, BLOCK A6, DONGHUAN INCUSTRIAL PARK, NO.293, NANPU ROAD, SHANGLIAO COMMUNITY, XINQIAO STREET, BAOAN DISTRICT, SHENZHEN, China.

Product description

Product name	:	Tablet PC
Brand name	:	XTRATECH
Model name	:	X8MT87
Series Model	:	N/A
Standards	:	ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 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.

Date of Test	:	
Date (s) of performance of tests	:	07 July 2020~10 July 2020
Date of Issue	:	11 July 2020
Test Result	:	**Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Jason Lu

(Jason Lu)

Authorized Signatory : Vita Li

(Vita Li)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	11 July 2020	STS2006255H01	ALL	Initial Issue
Note: **Format version** of the report -V01				

1.General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Tablet PC			
Brand Name	XTRATECH			
Model Name	X8MT87			
Series Model	N/A			
Model Difference	N/A			
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 4000mAh			
Device Category	Portable			
Product stage	Production unit			
RF Exposure Environment	General Population / Uncontrolled			
Hardware Version	BND-MT8768-R863-V1.0			
Software Version	full_tb8768p1_64_bsp-userdebug 2020061006 release-keys			
Frequency Range	LTE Band 2: 1850.7~1909.3MHz LTE Band 4: 1710.7~1754.3MHz WLAN802.11b/g/n(HT20): 2412~2462MHz WLAN 802.11n(HT40): 2422~2452MHz WLAN 802.11a/n/ac(HT20/40/80):5150~5250 MHz; WLAN 802.11a/n/ac(HT20/40/80):5725~5875 MHz; Bluetooth: 2402~ 2480MHz			
Max. Reported SAR(1g): (Limit:1.6W/kg)	Band	Mode	Head (W/kg)	Body Worn and Hotspot(W/kg)
	PCE	LTE Band 2	0.117	1.024
	PCE	LTE Band 4	0.171	1.014
	DTS	2.4G WLAN	0.027	0.066
	NII	5.2G WLAN	0.026	0.070
	NII	5.8G WLAN	0.016	0.040
	DSS	Bluetooth Note	0.053	0.053
1-g Sum SAR			0.224	1.094
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX (NII)			
Operating Mode:	LTE: QPSK, 16QAM WLAN: 802.11 a/b/g/n(HT20) /n(HT40) Bluetooth: 4.1+EDR (GFSK +π/4DQPSK+8DPSK) BLE			
Antenna Specification:	LTE: PIFA Antenna BT, WLAN: PIFA Antenna			
SIM Card	Only single card			
Hotspot Mode	Support			

DTM Mode	Not Support
Note: 1. Bluetooth SAR was estimated 2. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (℃)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
8	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(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.

Population/Uncontrolled Environments:
Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.
The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt}\left(\frac{dW}{dm}\right) = \frac{d}{dt}\left(\frac{dW}{\rho dv}\right)$$

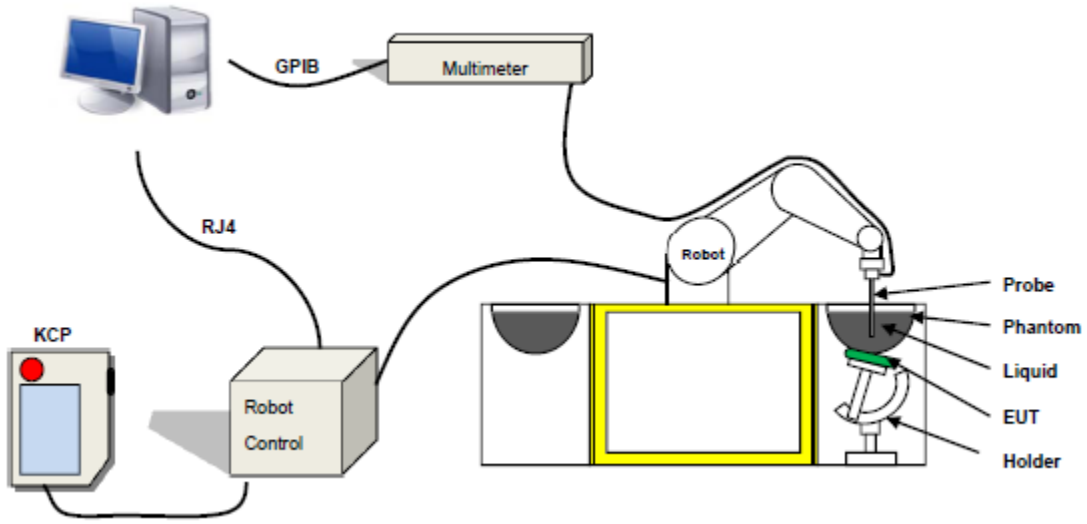
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,
ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.

The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 41/18 EPG0334 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 450 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Figure 1-MVG COMOSAR Dosimetric E field Dipole

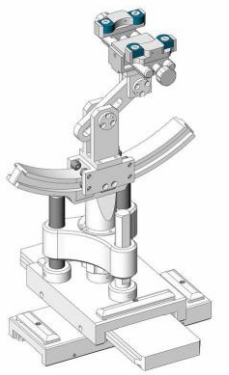
3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

SN 32/14 SAM115

SN 32/14 SAM116

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.4. Tissue Simulating Liquids

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Head Tissue

Frequency (MHz)	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	εr
750	0.2	/	/	1.4	0.2	57.0	/	41.1	0.89	41.9
835	0.2	/	/	1.4	0.2	57.9	/	40.3	0.90	41.5
900	0.2	/	/	1.4	0.2	57.9	/	40.3	0.97	41.5
1800	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
1900	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
2000	/	44.5	/	0.3	/	/	/	55.2	1.4	40.0
2450	/	44.9	/	0.1	/	/	/	55.0	1.80	39.2
2600	/	45.0	/	0.1	/	/	/	54.9	1.96	39.0

Body Tissue

Frequency (MHz)	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	εr
750	0.2	/	/	0.9	0.1	47.2	/	51.7	0.96	55.5
835	0.2	/	/	0.9	0.1	48.2	/	50.8	0.97	55.2
900	0.2	/	/	0.9	0.1	48.2	/	50.8	1.05	55.0
1800	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
1900	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
2000	/	29.4	/	0.4	/	/	/	70.2	1.52	53.3
2450	/	31.3	/	0.1	/	/	/	68.6	1.95	52.7
2600	/	31.7	/	0.1	/	/	/	68.2	2.16	52.3

Tissue dielectric parameters for head and body phantoms				
Frequency	εr		σ S/m	
	Head	Body	Head	Body
300	45.3	58.2	0.87	0.92
450	43.5	56.7	0.87	0.94
900	41.5	55.0	0.97	1.05
1450	40.5	54.0	1.20	1.30
1800	40.0	53.3	1.40	1.52
2450	39.2	52.7	1.80	1.95
3000	38.5	52.0	2.40	2.73
5800	35.3	48.2	5.27	6.00

LIQUID MEASUREMENT RESULTS

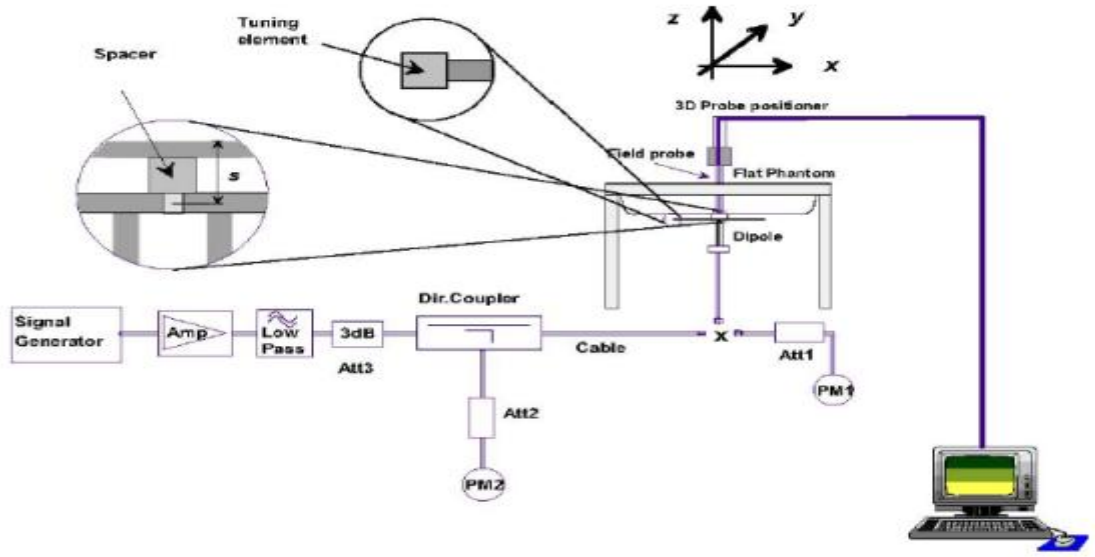
Date	Ambient condition		Simulating Liquid		Parameters	Target	Measured	Deviation [%]	Limited [%]
	Temp. [°C]	Humidity [%]	Frequency	Temp. [°C]					
2020-07-07	23.5	50	1800 MHz	23.3	Permittivity:	40	39.8	-0.50	±10
					Conductivity:	1.40	1.42	1.43	±10
2020-07-08	23.3	56	1900 MHz	23.0	Permittivity:	40	38.9	-2.75	±10
					Conductivity:	1.4	1.44	2.86	±10
2020-07-09	23.1	53	2450 MHz	22.8	Permittivity:	39.2	40.1	2.30	±10
					Conductivity:	1.8	1.86	3.33	±10
2020-07-10	22.4	56	5200 MHz	22.1	Permittivity:	36.0	37.59	4.42	±10
					Conductivity:	4.66	4.47	-4.08	±10
2020-07-10	22.4	56	5800 MHz	22.1	Permittivity:	35.3	36.27	2.75	±10
					Conductivity:	5.27	5.11	-3.04	±10

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

Freq.(MHz)	Power(mW)	Tested Value (W/Kg)	Normalized SAR (W/kg/W)	Target (W/Kg/W)	Tolerance(%)	Date
1800	100	3.745	37.45	38.4	-2.47	2020-07-07
1900	100	4.107	41.07	39.7	3.45	2020-07-08
2450	100	5.098	50.98	52.4	-2.71	2020-07-09
5200	100	5.514	55.14	56.9	-3.09	2020-07-10
5800	100	5.291	52.91	51.5	2.74	2020-07-10

Note:

1. The tolerance limit of System validation ±10%.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.

6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:
The following steps are used for each test position

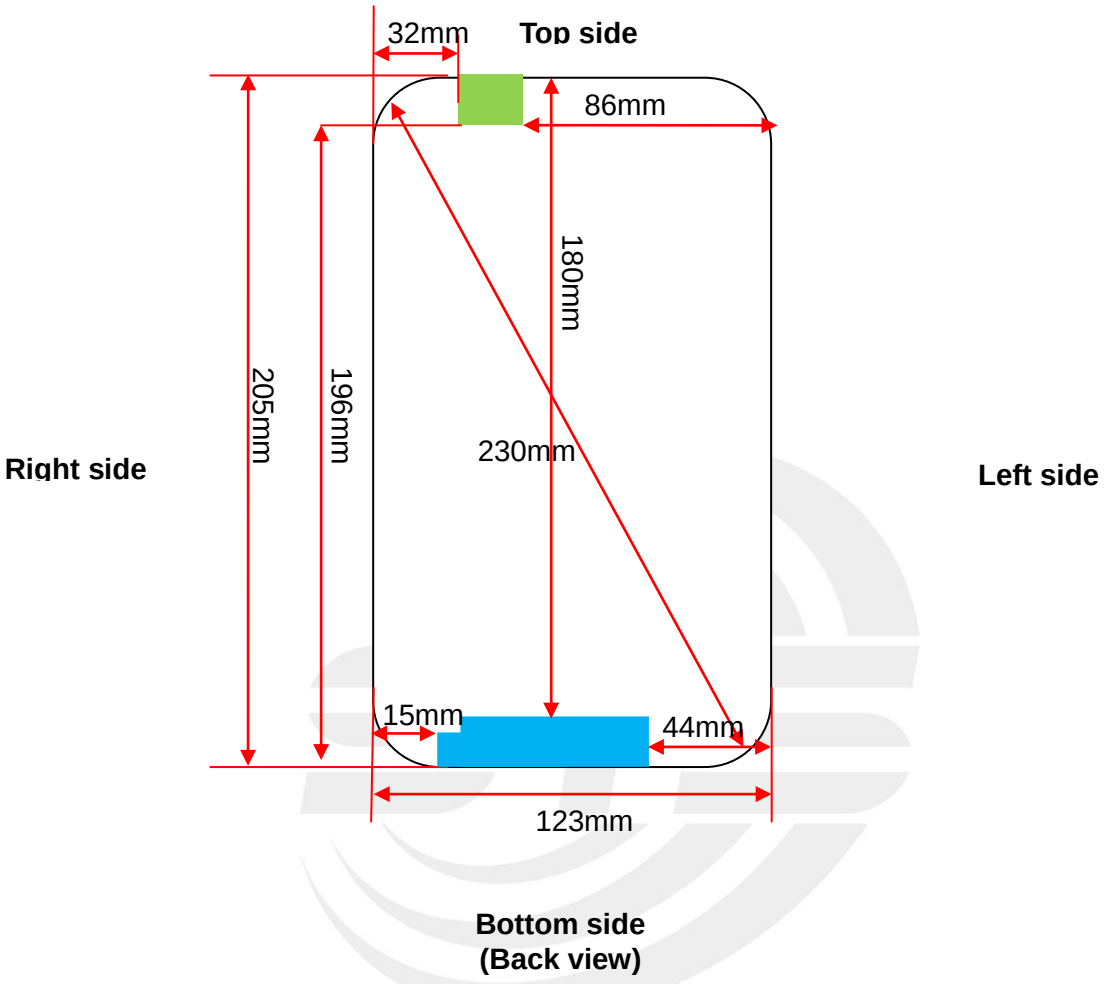
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 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.

➢ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.
When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a Tablet PC, support LTE/WLAN/BT mode.



WWAN Antenna

WLAN/BT Antenna

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

7.1 SAR test exclusion consider table

According with FCC KDB 447498 D01, appendix A, <SAR test exclusion thresholds for 100MHz ~6GHz and≤50mm＞table, this device SAR test configurations consider as following:

Band	Test position configurations				
	Back Side	Right Side	Left Side	Top Side	Bottom Side
WWAN	＜5mm	15mm	44mm	180mm	＜5mm
	Yes	Yes	Yes	No	Yes
WLAN/BT	＜5mm	32mm	86mm	＜5mm	196mm
	Yes	Yes	No	Yes	No

Note：

1. Maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:

   [(max. power of channel, including tune-up tolerance, Mw)/(min. test separation distance, mm)]*[√f(GHZ)]≤3.0 for 1-g SAR and≤7.5 for10-g extremity SAR ,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

   For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following

   a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]Mw, at 100 MHz to 1500 MHz

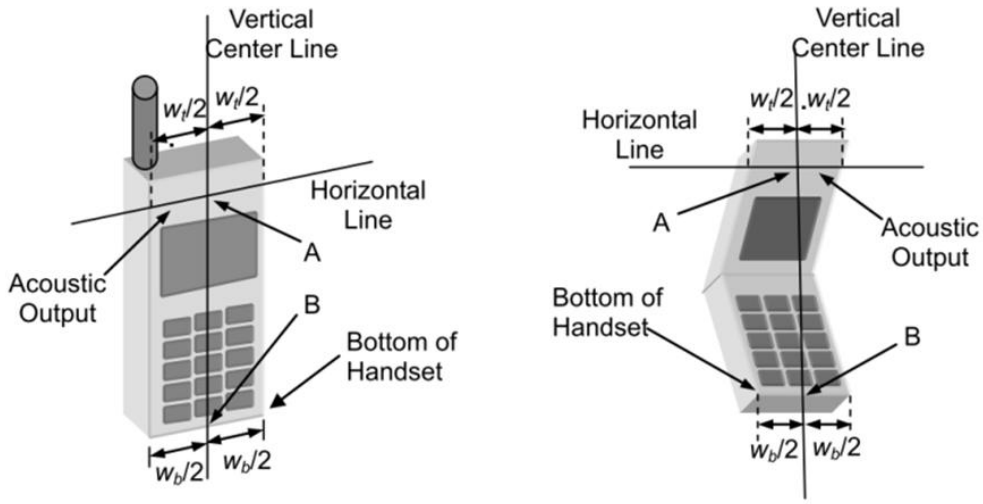
   b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at＞1500MHz and≤6GHz
6. Per KDB 447498 D02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/ HSUPA/DC-HSDPA output power is<0.25db higher than RMC 12.2Kbps,or reported SAR with RMC 12.2kbps setting is ≤1.2W/Kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.

8. EUT Test Position

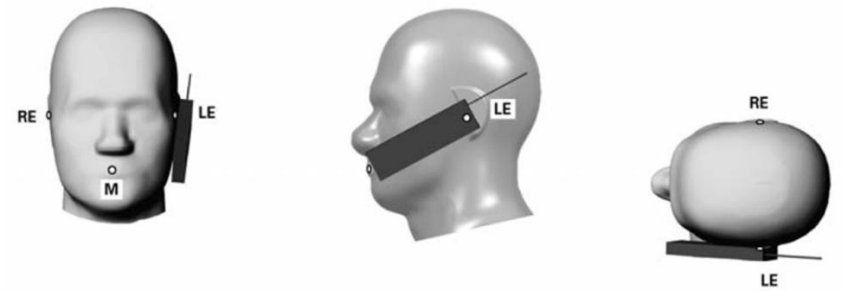
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

8.1 Define Two Imaginary Lines on the Handset

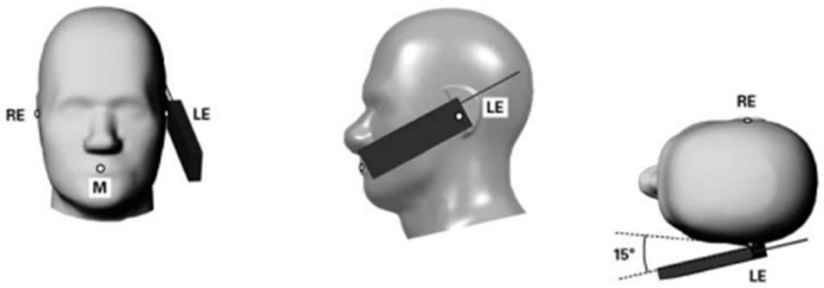
(1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
(2)The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
(3)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 to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



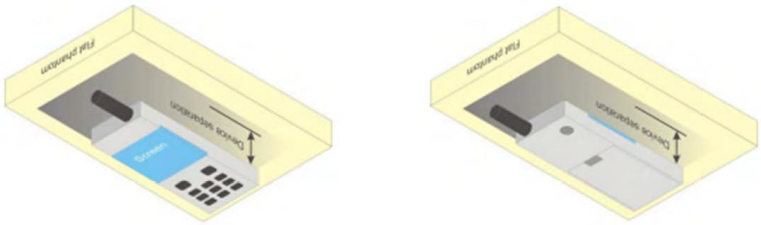
Cheek Position
1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



Title Position
(1)To position the device in the “cheek” position described above.
(2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.

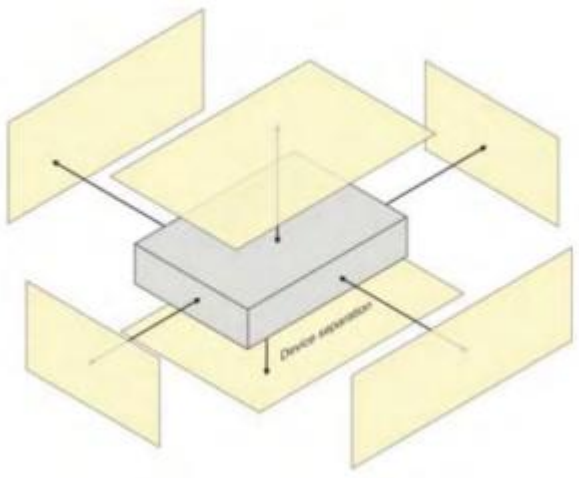


Body-worn Position Conditions:
Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a 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 the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	0.695	R	$\sqrt{3}$	√0.5	√0.5	0.28	0.28	∞
Hemispherical Isotropy	1.045	R	$\sqrt{3}$	√0.5	√0.5	0.43	0.43	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	0.685	R	$\sqrt{3}$	1	1	0.40	0.40	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	0.021	N	1	1	1	0.021	0.021	∞
Response Time	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient conditions-Noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Post-processing	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.6	2.6	∞
Device holder uncertainty	3	N	1	1	1	3	3	∞
SAR drift measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters								
Phantom uncertainty（shape and thickness uncertainty）	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity （measured）	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity （measured）	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty		RSS				9.79	9.59	
Expanded Uncertainty (95% Confidence interval)		K=2				19.58	19.18	

9.2 System validation Uncertainty

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	0.695	R	$\sqrt{3}$	1	1	0.40	0.40	∞
Hemispherical Isotropy	1.045	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	0.685	R	$\sqrt{3}$	1	1	0.40	0.40	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	0.021	N	1	1	1	0.021	0.021	∞
Response Time	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Post-Processing	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source								
Deviation of experimental dipole from numerical dipole	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Other source contribution Uncertainty	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up								
Phantom uncertainty（shape and thickness uncertainty）	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity （measured）	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity （measured）	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty		RSS				9.718	9.517	
Expanded Uncertainty (95% Confidence interval)		K=2				19.44	19.04	

10. Conducted Power Measurement

10.1 Test Result

WLAN (2.4G band)

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
802.11b	1	2412	15.93
	6	2437	16.31
	11	2462	16.28
802.11g	1	2412	13.68
	6	2437	13.62
	11	2462	13.55
802.11n(HT 20)	1	2412	11.54
	6	2437	11.51
	11	2462	11.46
802.11n(HT 40)	3	2422	11.53
	6	2437	11.40
	9	2452	11.38

WLAN (5.2G band)

Mode	Channel Number	Frequency (MHz)	Average EIRP Power (dBm)
802.11a	36	5180	10.53
	40	5200	10.15
	48	5240	9.50
802.11 n-HT20	36	5180	10.22
	40	5200	10.03
	48	5240	9.37
802.11 n-HT40	38	5190	9.91
	46	5230	9.08
802.11 ac-VHT20	36	5180	10.27
	40	5200	10.00
	48	5240	9.36
802.11 ac-VHT40	38	5190	9.91
	46	5230	8.78
802.11 ac-VHT80	42	5210	7.36

WLAN (5.8G band)

Mode	Channel Number	Frequency (MHz)	Average EIRP Power (dBm)
802.11a	149	5745	9.56
	157	5785	9.75
	165	5825	9.78
802.11 n-HT20	149	5745	9.42
	157	5785	9.62
	165	5825	9.70
802.11 n-HT40	151	5755	9.15
	159	5795	9.25
802.11 ac-VHT20	149	5745	9.31
	157	5785	9.67
	165	5825	9.72
802.11 ac-VHT40	151	5755	9.11
	159	5795	9.19
802.11 ac-VHT80	155	5775	8.41

Bluetooth

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
GFSK(1Mbps)	0	2402	7.27
	39	2441	7.72
	78	2480	8.12
π/4-DQPSK(2Mbps)	0	2402	5.36
	39	2441	5.91
	78	2480	6.28
8DPSK(3Mbps)	0	2402	5.34
	39	2441	5.84
	78	2480	6.19

BLE

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
GFSK(1Mbps)	0	2402	-6.16
	19	2440	-5.96
	39	2480	-6.11
GFSK(2Mbps)	0	2402	-9.01
	19	2440	-8.82
	39	2480	-8.96

LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leqslant$ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is $\leqslant$ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is $\leqslant$ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.

LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.08	21.16	20.94
1.4	1	2		20.79	20.86	20.68
1.4	1	5		20.50	20.58	20.47
1.4	3	0		20.26	20.28	20.19
1.4	3	1		19.99	20.04	19.90
1.4	3	2		19.74	19.74	19.62
1.4	6	0		19.53	19.50	19.40
1.4	1	0	16-QAM	20.85	20.86	20.68
1.4	1	2		20.63	20.59	20.39
1.4	1	5		20.36	20.29	20.18
1.4	3	0		20.07	20.01	19.89
1.4	3	1		19.85	19.71	19.64
1.4	3	2		19.61	19.43	19.35
1.4	6	0		19.33	19.18	19.11
3	1	0	QPSK	21.10	21.06	21.02
3	1	7		20.84	20.76	20.75
3	1	14		20.60	20.54	20.47
3	8	0		20.35	20.27	20.18
3	8	4		20.07	20.04	19.97
3	8	7		19.80	19.77	19.71
3	15	0		19.53	19.52	19.47
3	1	0	16-QAM	20.84	20.79	20.72
3	1	7		20.57	20.53	20.45
3	1	14		20.31	20.25	20.18
3	8	0		20.06	19.99	19.93
3	8	4		19.84	19.77	19.69
3	8	7		19.56	19.48	19.46
3	15	0		19.34	19.22	19.23

LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.27	21.19	21.15
5	1	12		21.03	20.97	20.90
5	1	24		20.74	20.75	20.65
5	12	0		20.51	20.55	20.42
5	12	6		20.27	20.31	20.21
5	12	11		20.01	20.03	19.98
5	25	0		19.78	19.76	19.76
5	1	0	16-QAM	21.01	20.94	20.89
5	1	12		20.74	20.65	20.66
5	1	24		20.51	20.37	20.39
5	12	0		20.27	20.07	20.11
5	12	6		20.05	19.82	19.90
5	12	11		19.83	19.57	19.65
5	25	0		19.56	19.32	19.39
10	1	0	QPSK	21.08	21.20	21.26
10	1	24		20.81	20.91	21.05
10	1	49		20.54	20.68	20.81
10	25	0		20.33	20.43	20.59
10	25	12		20.05	20.15	20.36
10	25	24		19.83	19.91	20.12
10	50	0		19.61	19.66	19.82
10	1	0	16-QAM	20.80	20.99	21.03
10	1	24		20.56	20.74	20.82
10	1	49		20.33	20.51	20.61
10	25	0		20.08	20.22	20.36
10	25	12		19.87	19.93	20.13
10	25	24		19.57	19.64	19.84
10	50	0		19.28	19.36	19.57

LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.37	21.33	21.27
15	1	37		21.08	21.08	20.98
15	1	74		20.83	20.80	20.71
15	36	0		20.59	20.56	20.50
15	36	18		20.36	20.36	20.25
15	36	39		20.07	20.12	20.03
15	75	0		19.85	19.88	19.78
15	1	0	16-QAM	21.13	21.06	21.04
15	1	38		20.91	20.77	20.80
15	1	75		20.61	20.51	20.51
15	36	0		20.32	20.23	20.28
15	36	18		20.10	20.03	20.06
15	36	39		19.84	19.77	19.78
15	75	0		19.61	19.54	19.50
20	1	0	QPSK	21.41	21.38	21.46
20	1	49		21.16	21.08	21.26
20	1	99		20.91	20.88	21.04
20	50	0		20.68	20.67	20.75
20	50	24		20.40	20.42	20.54
20	50	49		20.18	20.13	20.24
20	100	0		19.95	19.86	19.96
20	1	0	16-QAM	21.19	21.12	21.16
20	1	49		20.90	20.92	20.95
20	1	99		20.69	20.71	20.68
20	50	0		20.45	20.48	20.42
20	50	24		20.24	20.25	20.15
20	50	49		19.99	19.95	19.88
20	100	0		19.71	19.66	19.65

LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.34	21.29	21.40
1.4	1	2		21.09	21.01	21.19
1.4	1	5		20.86	20.77	20.91
1.4	3	0		20.60	20.50	20.62
1.4	3	1		20.39	20.23	20.33
1.4	3	2		20.12	20.01	20.09
1.4	6	0		19.83	19.77	19.84
1.4	1	0	16-QAM	21.06	21.01	21.16
1.4	1	2		20.79	20.77	20.92
1.4	1	5		20.56	20.49	20.63
1.4	3	0		20.35	20.24	20.35
1.4	3	1		20.08	19.95	20.14
1.4	3	2		19.87	19.69	19.85
1.4	6	0		19.64	19.40	19.56
3	1	0	QPSK	21.16	21.22	21.37
3	1	7		20.91	21.01	21.14
3	1	14		20.61	20.81	20.86
3	8	0		20.37	20.53	20.60
3	8	4		20.14	20.24	20.30
3	8	7		19.94	19.96	20.09
3	15	0		19.73	19.71	19.79
3	1	0	16-QAM	20.93	20.92	21.17
3	1	7		20.71	20.67	20.90
3	1	14		20.45	20.41	20.64
3	8	0		20.18	20.15	20.36
3	8	4		19.96	19.87	20.11
3	8	7		19.68	19.64	19.89
3	15	0		19.44	19.34	19.68

LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.15	21.08	21.11
5	1	12		20.89	20.81	20.84
5	1	24		20.62	20.53	20.60
5	12	0		20.36	20.33	20.34
5	12	6		20.16	20.09	20.07
5	12	11		19.86	19.86	19.79
5	25	0		19.63	19.56	19.53
5	1	0	16-QAM	20.92	20.81	20.82
5	1	12		20.65	20.54	20.59
5	1	24		20.42	20.27	20.29
5	12	0		20.17	20.03	20.07
5	12	6		19.94	19.77	19.79
5	12	11		19.73	19.54	19.57
5	25	0		19.46	19.30	19.32
10	1	0	QPSK	21.30	21.28	21.20
10	1	24		21.09	21.07	20.97
10	1	49		20.83	20.84	20.74
10	25	0		20.62	20.55	20.47
10	25	12		20.38	20.27	20.25
10	25	24		20.16	20.04	19.95
10	50	0		19.94	19.79	19.72
10	1	0	16-QAM	21.05	21.02	20.99
10	1	24		20.78	20.77	20.77
10	1	49		20.53	20.49	20.48
10	25	0		20.30	20.26	20.24
10	25	12		20.00	19.99	19.97
10	25	24		19.71	19.71	19.73
10	50	0		19.45	19.41	19.45

LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.36	21.25	21.39
15	1	37		21.06	21.02	21.10
15	1	74		20.83	20.80	20.85
15	36	0		20.57	20.53	20.64
15	36	18		20.34	20.30	20.37
15	36	39		20.11	20.04	20.12
15	75	0		19.86	19.79	19.89
15	1	0	16-QAM	21.12	21.01	21.13
15	1	38		20.92	20.77	20.89
15	1	75		20.70	20.48	20.64
15	36	0		20.41	20.26	20.38
15	36	18		20.16	19.97	20.11
15	36	39		19.90	19.75	19.89
15	75	0		19.67	19.51	19.62
20	1	0	QPSK	21.40	21.38	21.42
20	1	49		21.16	21.14	21.20
20	1	99		20.92	20.91	20.90
20	50	0		20.71	20.63	20.67
20	50	24		20.46	20.40	20.45
20	50	49		20.23	20.19	20.20
20	100	0		19.95	19.90	19.97
20	1	0	16-QAM	21.15	21.16	21.15
20	1	49		20.93	20.91	20.88
20	1	99		20.71	20.69	20.64
20	50	0		20.47	20.44	20.44
20	50	24		20.27	20.17	20.18
20	50	49		20.03	19.93	19.91
20	100	0		19.82	19.70	19.65

10.2 SAR Test Exclusions Applied

Per 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)]·[√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.

$$\frac{Max\ Power\ of\ Channel\ (mW)}{Test\ Separation\ Dist\ (mm)} * \sqrt{Frequency(GHz)} \leq 3.0$$

Based on the maximum conducted power of **Bluetooth Head** (rounded to the nearest mW) and the antenna to user separation distance,

Bluetooth Head SAR was not required; [(7.943/5)* √2.480 = **2.50** < 3.0.

Based on the maximum conducted power of **Bluetooth Body** (rounded to the nearest mW) and the antenna to user separation distance,

Bluetooth Body SAR was not required; [(7.943/5)* √2.480] = **2.50** < 3.0.

Based on the maximum conducted power of **2.4 GHz WLAN Head** (rounded to the nearest mW) and the antenna to user separation distance,

2.4 GHz WLAN SAR was required; [(50.119/5)* √2.462] =**15.73** > 3.0.

Based on the maximum conducted power of **2.4 GHz WLAN Body** (rounded to the nearest mW) and the antenna to user separation distance,

2.4 GHz WLAN SAR was required; [(50.119/5)* √2.462] =**15.73** > 3.0.

Based on the maximum conducted power of **5.2 GHz WLAN Head** (rounded to the nearest mW) and the antenna to user separation distance,

5.2 GHz WLAN SAR was required; [(12.589/5)* √5.200] =**5.74** > 3.0.

Based on the maximum conducted power of **5.2 GHz WLAN Body** (rounded to the nearest mW) and the antenna to user separation distance,

5.2 GHz WLAN SAR was required; [(12.589/5)* √5.200] =**5.74** > 3.0.

Based on the maximum conducted power of **5.8 GHz WLAN Head** (rounded to the nearest mW) and the antenna to user separation distance,

5.8 GHz WLAN SAR was required; [(50.119/5)* √5.800] =**4.82** > 3.0.

Based on the maximum conducted power of **5.8 GHz WLAN Body** (rounded to the nearest mW) and the antenna to user separation distance,

5.8 GHz WLAN SAR was required; [(50.119/5)* √5.800] =**4.82** > 3.0.

11. EUT and Test Setup Photo

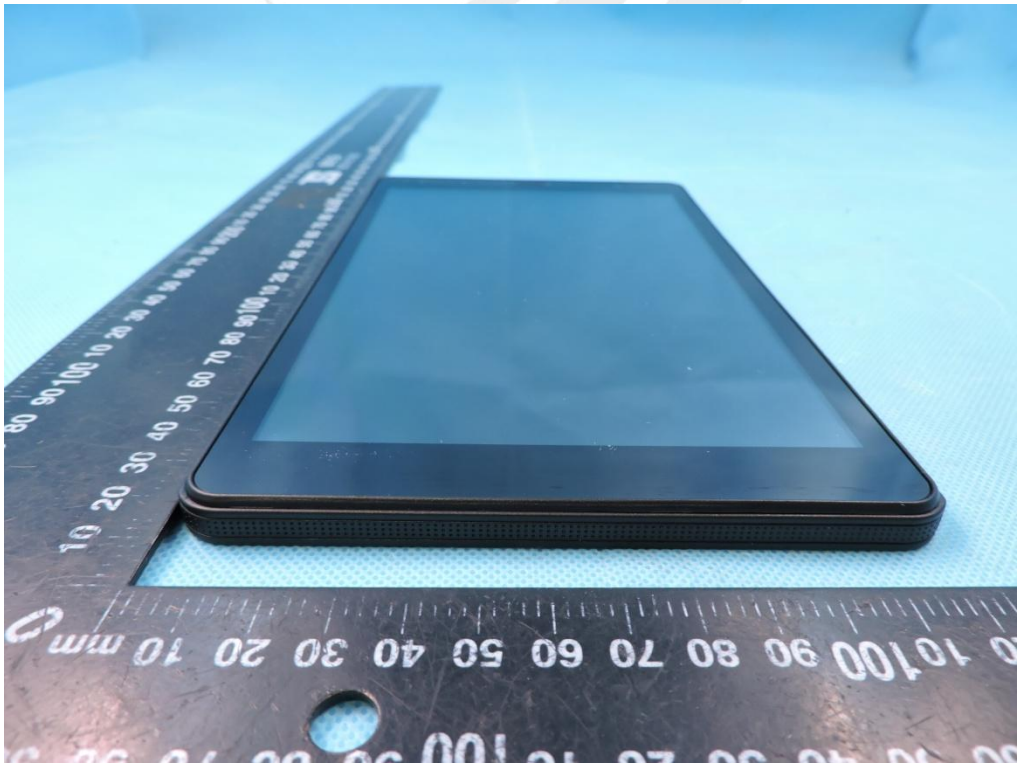
11.1 EUT Photo

Front side

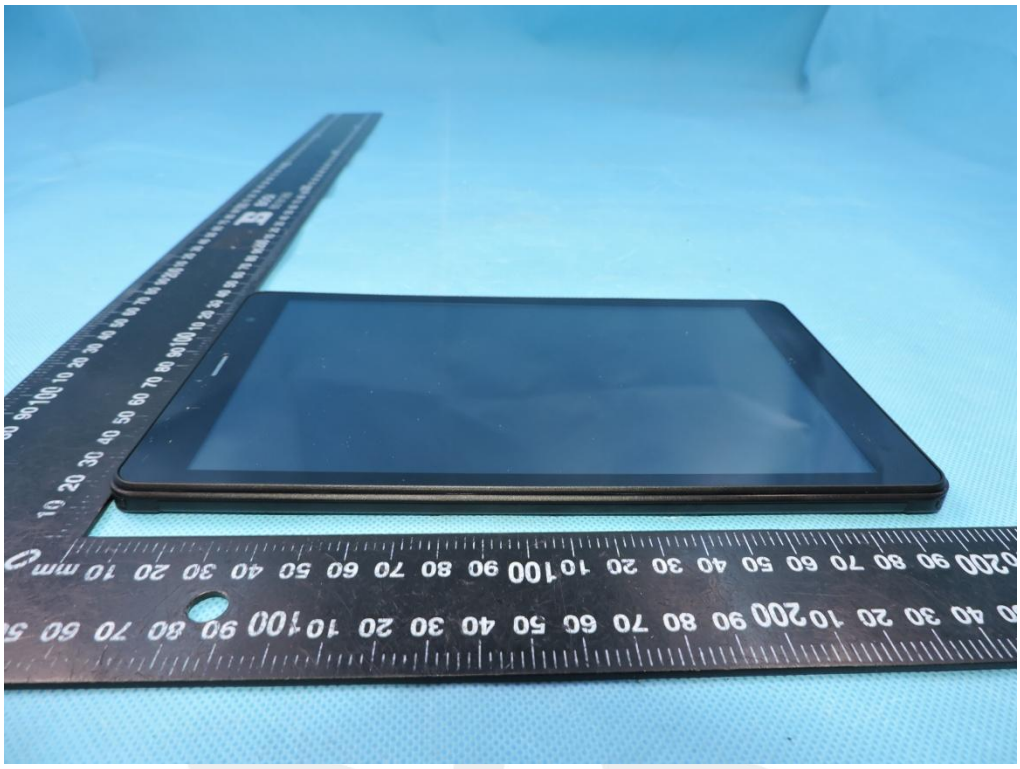
Back side

Top side

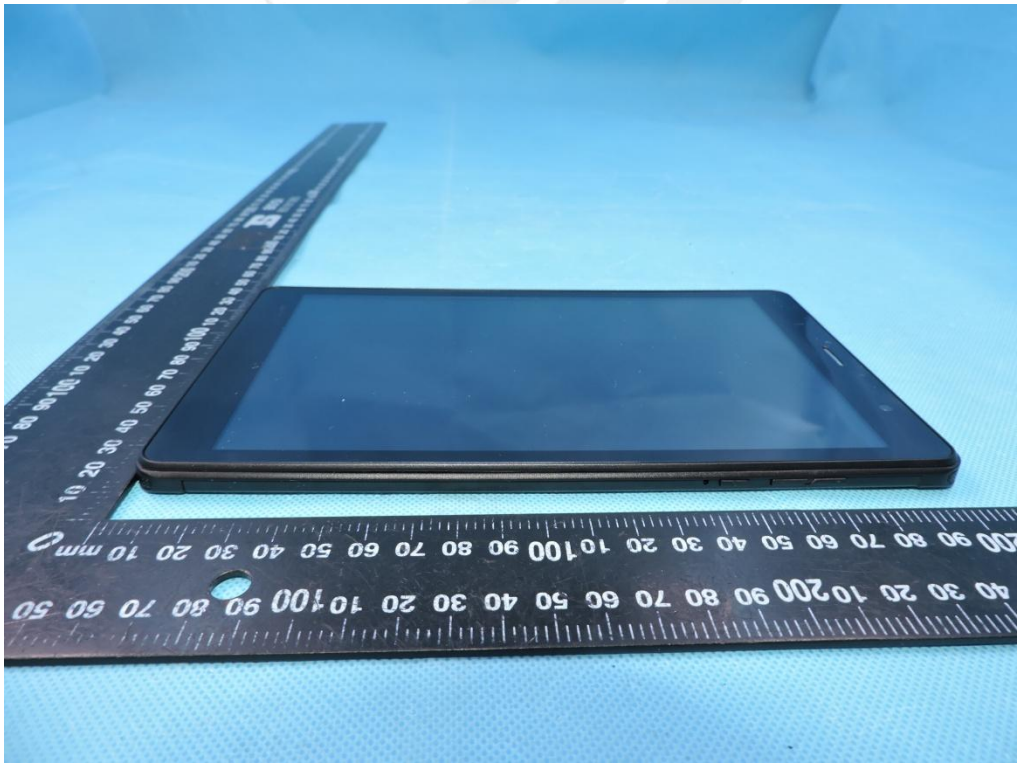
Bottom side



Left side

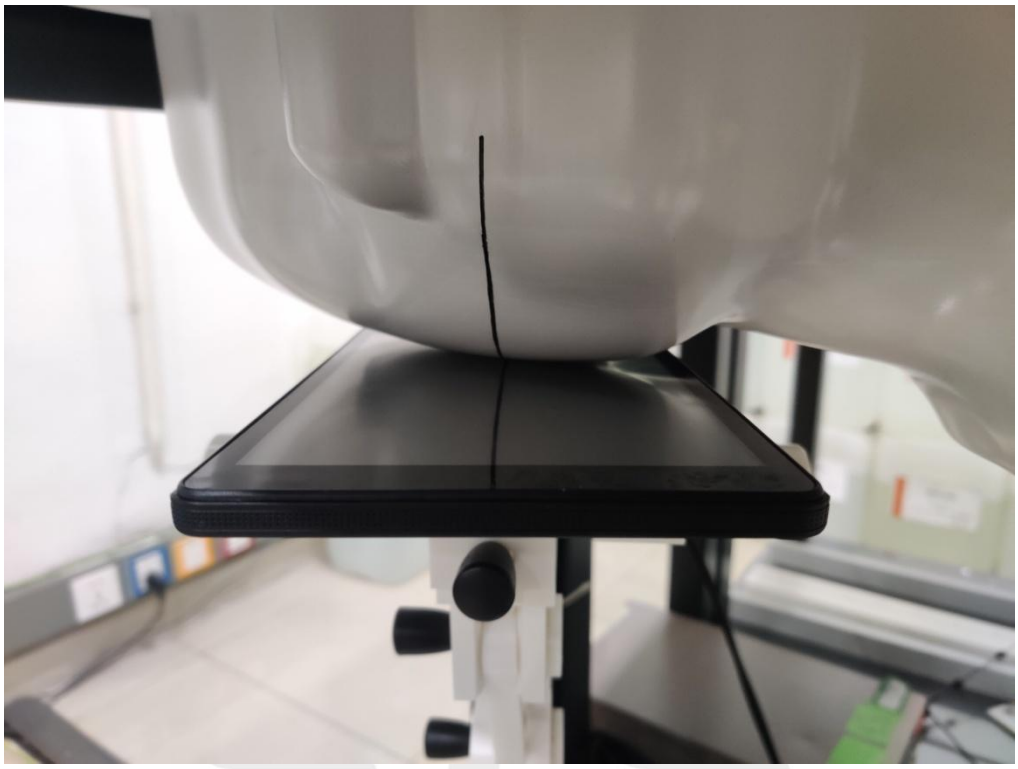


Right side

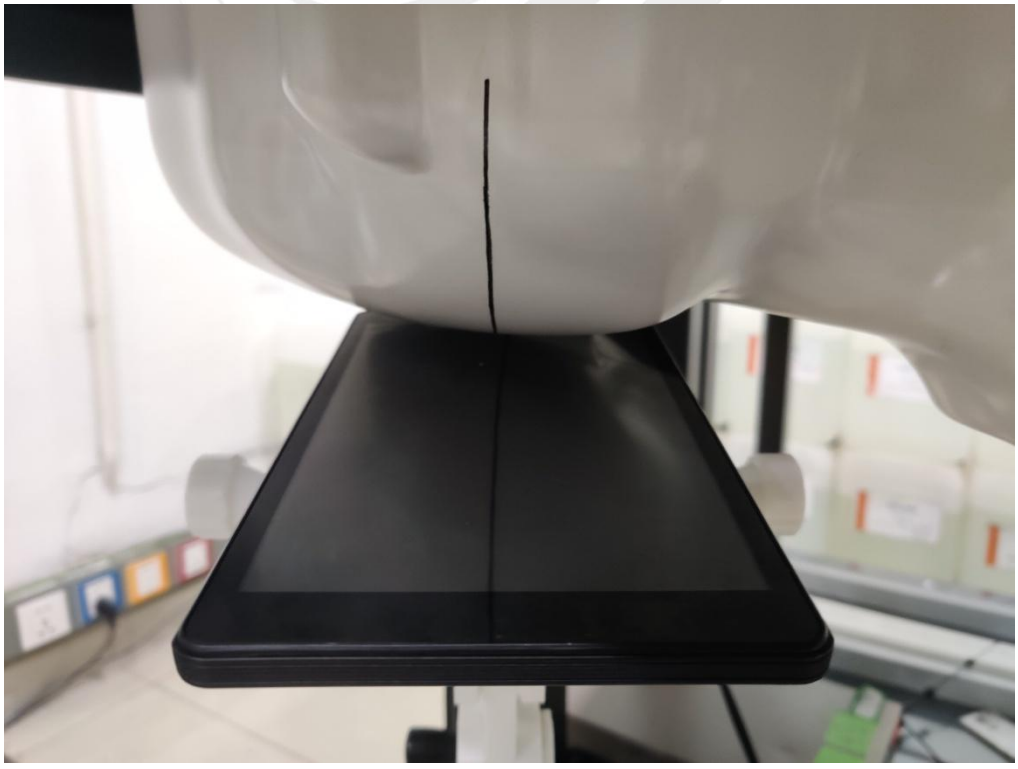


11.2 Setup Photo

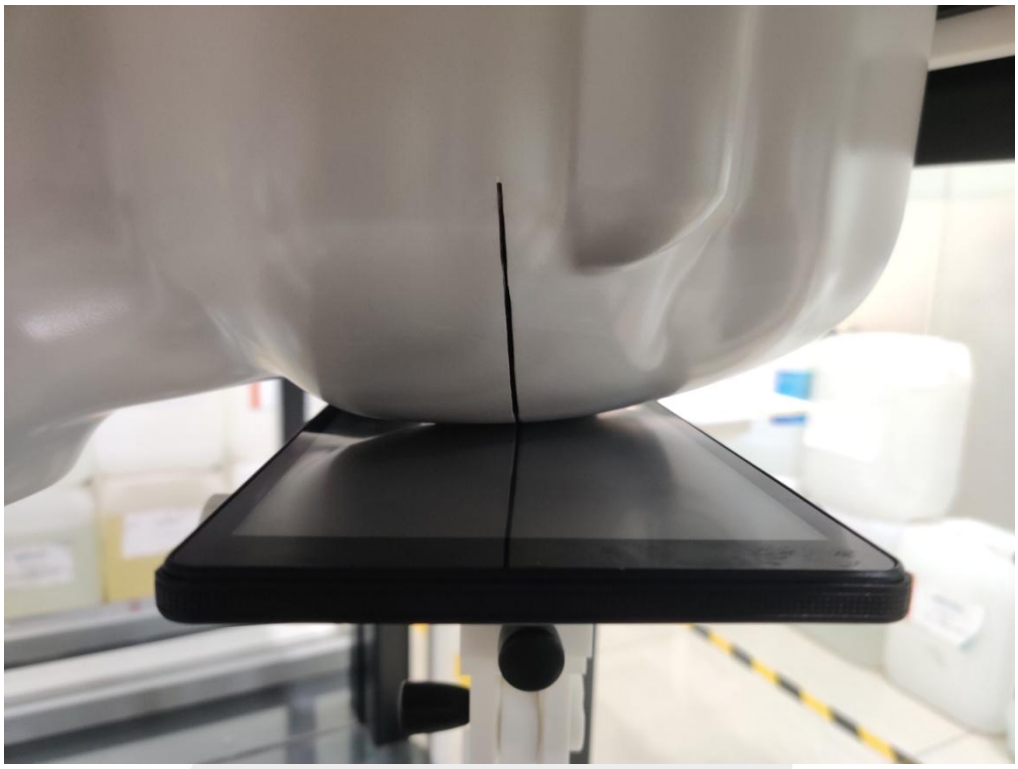
Right Touch



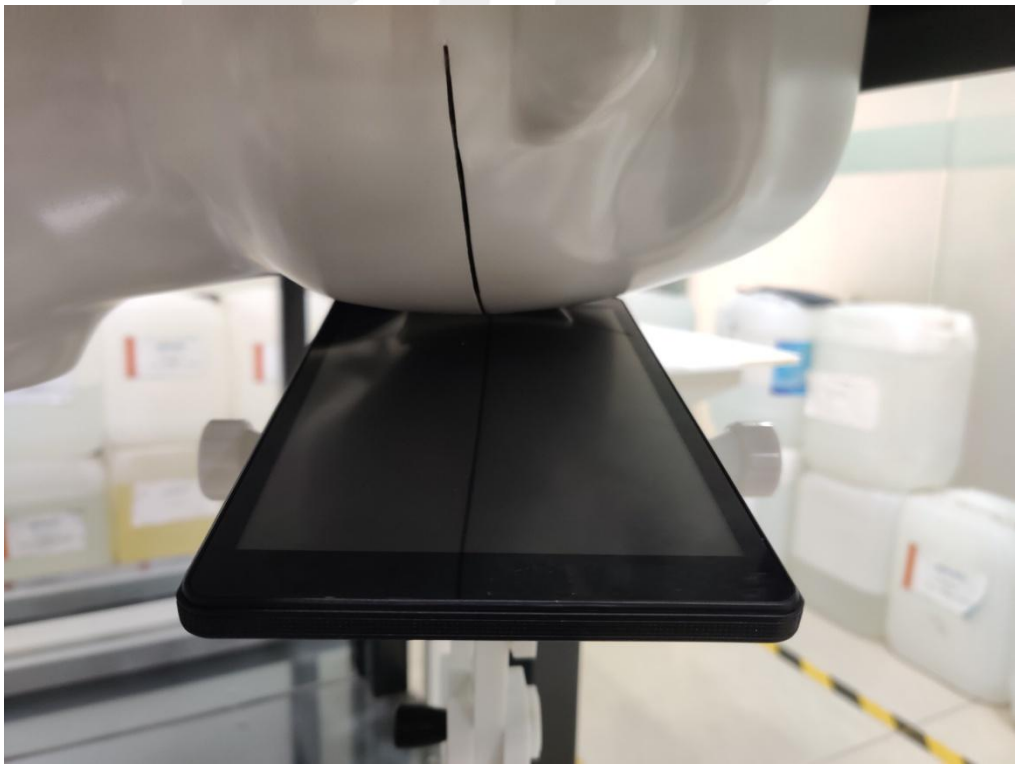
Right Tilt



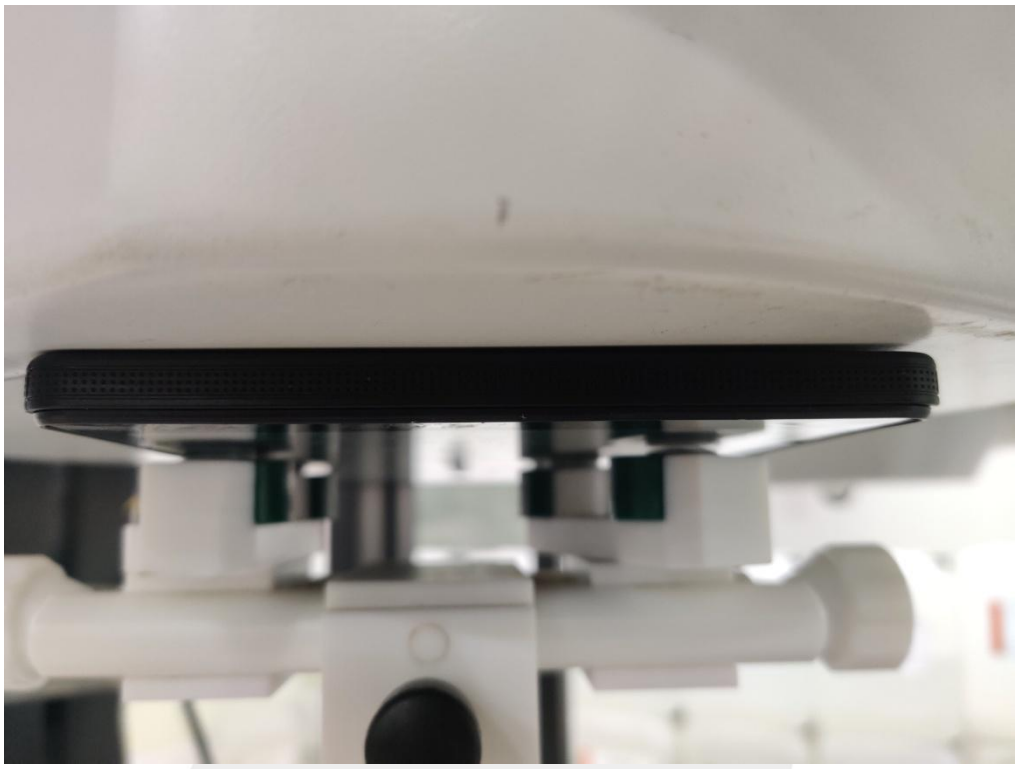
Left Touch



Left Tilt



Body Back side(separation distance is 0mm)

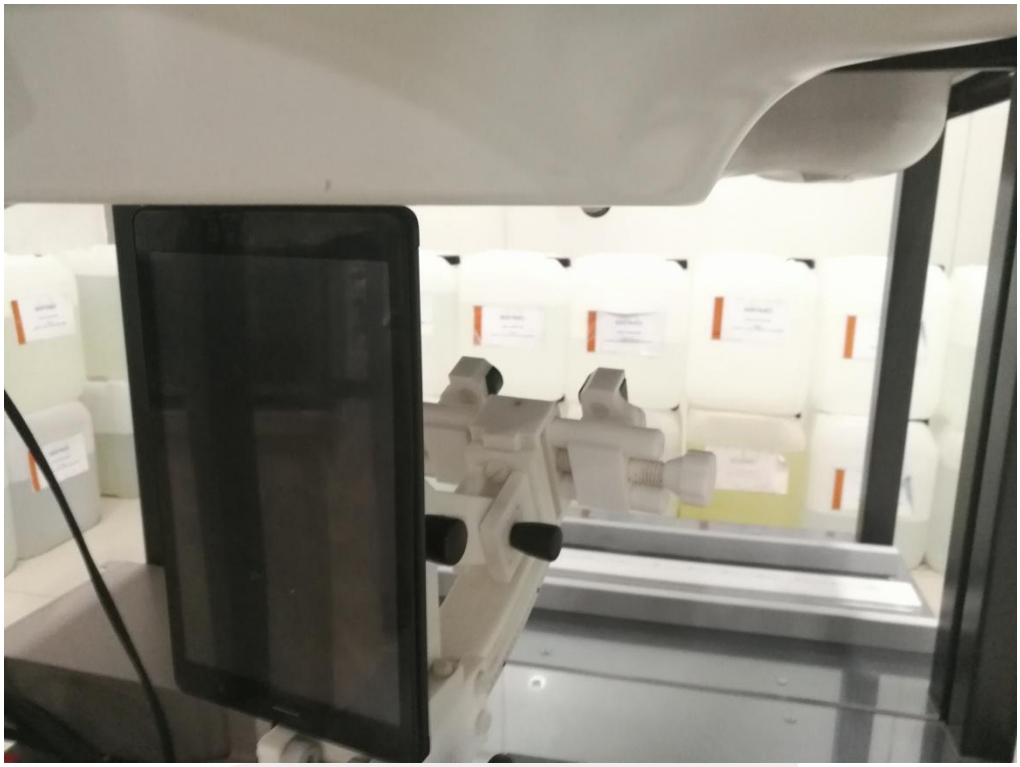


Body Left side(separation distance is 0mm)

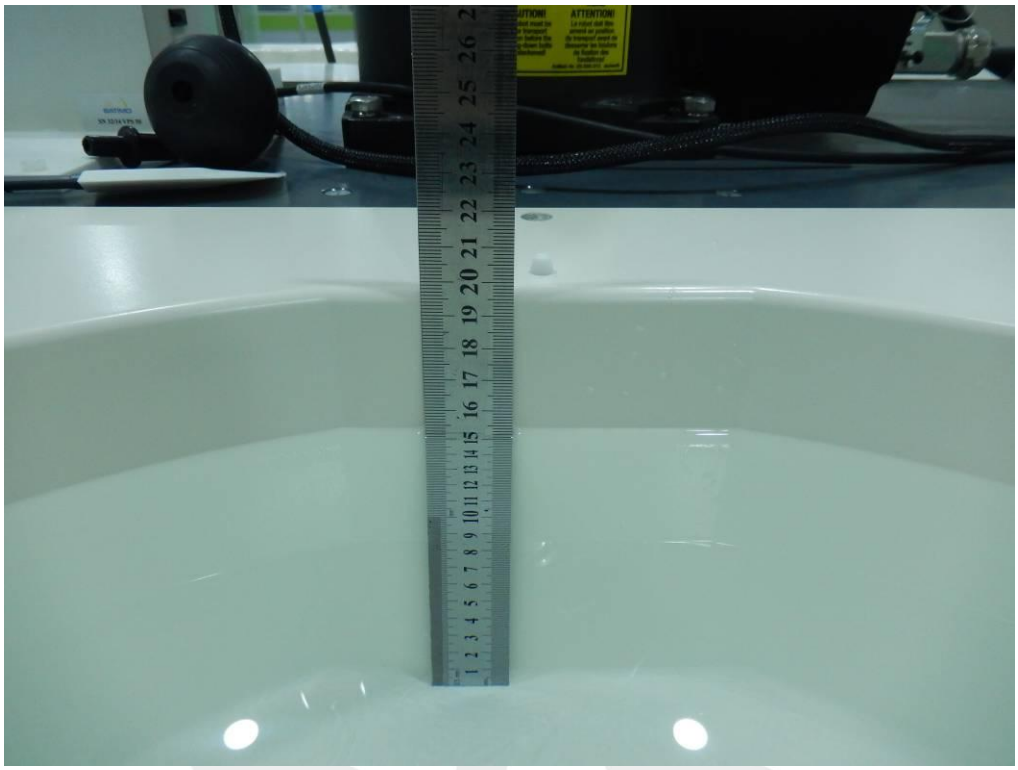
Body Right side(separation distance is 0mm)

Body Top side(separation distance is 0mm)

Body Bottom side(separation distance is 0mm)



Liquid depth (15 cm)



12. SAR Result Summary

12.1 Head SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	Right Cheek	6	0.020	-3.91	17	16.31	100	0.023	/
		Right Tilt	6	0.009	0.15	17	16.31	100	0.011	/
		Left Cheek	6	0.023	3.22	17	16.31	100	**0.027**	1
		Left Tilt	6	0.010	2.07	17	16.31	100	0.012	/
5.2G WLAN	802.11a	Right Cheek	36	0.017	2.74	11	10.53	100	0.019	/
		Right Tilt	36	0.008	3.66	11	10.53	100	0.009	/
		Left Cheek	36	0.023	0.36	11	10.53	100	**0.026**	7
		Left Tilt	36	0.013	0.43	11	10.53	100	0.014	/
5.8G WLAN	802.11a	Right Cheek	165	0.011	-2.39	10	9.78	100	0.012	/
		Right Tilt	165	0.005	-1.90	10	9.78	100	0.005	/
		Left Cheek	165	0.015	-3.63	10	9.78	100	**0.016**	9
		Left Tilt	165	0.007	3.82	10	9.78	100	0.007	/

Note:

1. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
2. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 0.015 W/Kg for Head)
3. Per KDB865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Right Cheek	19100	0.103	2.61	22	21.46	**0.117**	3
			50	0	Right Cheek	19100	0.089	-3.43	21	20.75	0.094	/
			1	0	Right Tilt	19100	0.062	-1.97	22	21.46	0.070	/
			50	0	Right Tilt	19100	0.051	3.46	21	20.75	0.054	/
			1	0	Left Cheek	19100	0.080	-3.30	22	21.46	0.091	/
			50	0	Left Cheek	19100	0.074	-0.06	21	20.75	0.078	/
			1	0	Left Tilt	19100	0.039	2.87	22	21.46	0.044	/
			50	0	Left Tilt	19100	0.033	-3.64	21	20.75	0.035	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	20300	0.150	3.08	22	21.42	**0.171**	5
			50	0	Right Cheek	20050	0.133	-1.26	21	20.71	0.142	/
			1	0	Right Tilt	20300	0.119	-3.09	22	21.42	0.136	/
			50	0	Right Tilt	20050	0.093	-0.90	21	20.71	0.099	/
			1	0	Left Cheek	20300	0.127	2.59	22	21.42	0.145	/
			50	0	Left Cheek	20050	0.100	-3.03	21	20.71	0.107	/
			1	0	Left Tilt	20300	0.069	3.89	22	21.42	0.079	/
			50	0	Left Tilt	20050	0.057	1.23	21	20.71	0.061	/

12.2 Body-worn and Hotspot SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	Back Side	6	0.056	3.30	17	16.31	100	**0.066**	2
		Right Side	6	0.011	-2.45	17	16.31	100	0.013	/
		Top Side	6	0.018	0.82	17	16.31	100	0.021	/
5.2G WLAN	802.11a	Back Side	36	0.063	-2.97	11	10.53	100	**0.070**	8
		Right Side	36	0.036	-0.46	11	10.53	100	0.040	/
		Top Side	36	0.044	1.21	11	10.53	100	0.049	/
5.8G WLAN	802.11a	Back Side	165	0.038	-2.57	10	9.78	100	**0.040**	10
		Right Side	165	0.017	3.69	10	9.78	100	0.018	/
		Top Side	165	0.023	1.74	10	9.78	100	0.024	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 0.036 W/Kg for Body)
4. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas No.
LTE Band 2	20M	QPSK	1	0	Back Side	18700	0.855	1.26	22	21.41	0.979	/
			1	0	Back Side	18900	0.826	-1.67	22	21.38	0.953	/
			1	0	Back Side	19100	0.904	-0.94	22	21.46	**1.024**	4
			50	0	Back Side	19100	0.769	2.85	21	20.75	0.815	/
			100	0	Back Side	19100	0.727	0.05	20	19.96	0.734	/
			1	0	Left Side	19100	0.048	1.22	22	21.46	0.054	/
			50	0	Left Side	19100	0.036	-2.36	21	20.75	0.038	/
			1	0	Right Side	19100	0.129	-3.66	22	21.46	0.146	/
			50	0	Right Side	19100	0.107	3.29	21	20.75	0.113	/
			1	0	Bottom Side	19100	0.532	3.51	22	21.46	0.602	/
			50	0	Bottom Side	19100	0.471	-0.42	21	20.75	0.499	/
LTE Band 4	20M	QPSK	1	0	Back Side	20050	0.786	3.28	22	21.40	0.902	/
			1	0	Back Side	20175	0.821	0.48	22	21.38	0.947	/
			1	0	Back Side	20300	0.887	-2.70	22	21.42	**1.014**	6
			50	0	Back Side	20050	0.811	-1.69	21	20.71	0.867	/
			100	0	Back Side	20300	0.722	0.53	20	19.97	0.727	/
			1	0	Left Side	20300	0.037	0.96	22	21.42	0.042	/
			50	0	Left Side	20050	0.023	-2.11	21	20.71	0.025	/
			1	0	Right Side	20300	0.109	-3.36	22	21.42	0.125	/
			50	0	Right Side	20050	0.072	-1.99	21	20.71	0.077	/
			1	0	Bottom Side	20300	0.409	-2.55	22	21.42	0.467	/
			50	0	Bottom Side	20050	0.368	-3.53	21	20.71	0.393	/

Repeated SAR

Band	BW (MHz)	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	QPSK	Back Side	19100	0.881	2.14	22	21.46	0.998	/
LTE Band 4	QPSK	Back Side	20050	0.869	3.01	22	21.42	0.993	/

12.3 repeated SAR measurement

Band	BW (MHz)	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
LTE Band 2	QPSK	Back Side	19100	0.904	0.881	1.03	-	-	-
LTE Band 4	QPSK	Back Side	20050	0.887	0.869	1.02	-	-	-

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is≥0.8W/Kg.
2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is≤1.2and the measured SAR＜1.45W/Kg, only one repeated measurement is required.
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 ≥ 1.45W/Kg
4. The ratio is the difference in percentage between original and repeated measured SAR.

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. LTE + 2.4G WLAN
	1. LTE + 5G WLAN
	2. LTE + Bluetooth
Body	1. LTE + 2.4G WLAN
	1. LTE + 5G WLAN
	2. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. Based upon KDB 447498 D01, BT SAR is excluded as below table.
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
5. For minimum test separation distance≦50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)·[√f (GHz) /x] ≦3.0 for 1-g SAR and ≦7.5 for 10-g extremity SAR
6. The reported SAR summation is calculated based on the same configuration and test position.
7. KDB 447498 / 4.3.2 (2) 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:
   a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances≤ 50 mm;
   Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
   b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	9	7.943	5	2.480	0.053
	Body			5	2.480	0.053

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
LTE + WLAN	Head	LTE	0.171	0.198
		2.4G WLAN	0.027	
	Body	LTE	1.024	1.090
		2.4G WLAN	0.066	
LTE + 5G WLAN	Head	LTE	0.171	0.197
		5G WLAN	0.026	
	Body	LTE	1.024	1.094
		5G WLAN	0.070	
LTE + Bluetooth	Head	LTE	0.171	0.224
		Bluetooth	0.053	
	Body	LTE	1.024	1.077
		Bluetooth	0.053	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
1800MHz Dipole	MVG	SID1800	SN 30/14 DIP1G800-329	2017.08.15	2020.08.14
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2017.08.15	2020.08.14
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2017.08.15	2020.08.14
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2017.08.15	2020.08.14
E-Field Probe	MVG	SSE2	SN 41/18 EPGO334	2020.06.03	2021.06.02
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2019.11.25	2020.11.24
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	MVG	SAM	SN 32/14 SAM116	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	99899	DC-18GHz	N/A	N/A
Directional coupler	Narda	4226-20	3305	N/A	N/A
Network Analyzer	Agilent	8753ES	US38432810	2019.10.11	2020.10.10
Multi Meter	Keithley	Multi Meter 2000	4050073	2019.10.11	2020.10.10
Signal Generator	Agilent	N5182A	MY50140530	2019.10.09	2020.10.08
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2019.10.09	2020.10.08
Wireless Communication Test Set	R&S	CMW500	117239	2019.10.09	2020.10.08
Power Amplifier	DESAY	ZHL-42W	9638	2019.10.09	2020.10.08
Power Meter	R&S	NRP	100510	2019.10.16	2020.10.15
Power Meter	Agilent	E4419B	QB43312265	2019.10.12	2020.10.11
Power Sensor	R&S	NRP-Z11	101919	2019.10.12	2020.10.11
Power Sensor	HP	E9300A	US39210170	2019.10.09	2020.10.08
Temperature hygrometer	SuWei	SW-108	N/A	2019.10.13	2020.10.12
Thermograph	Elitech	RC-4	S/N EF7176501537	2019.10.11	2020.10.10

Note:
Per KDB 865664 D01, Dipole SAR Validation Verification, STS LAB has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole
2. System validation with specific dipole is within 10% of calibrated value
Return-loss in within 20% of calibrated measurement

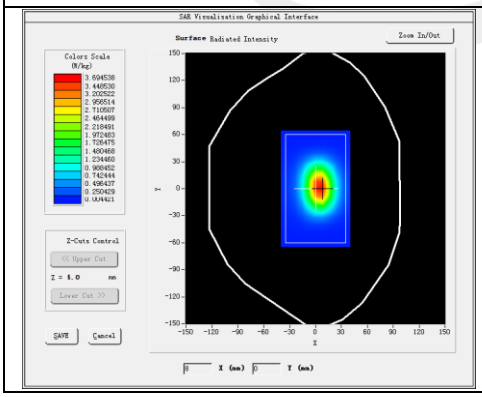
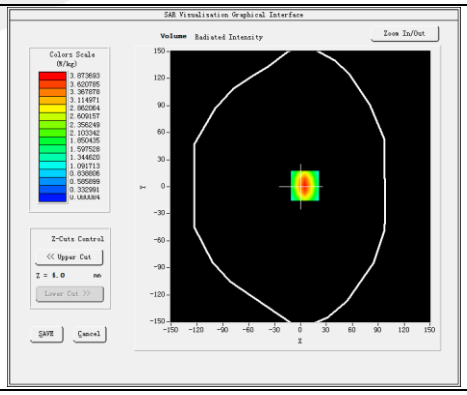
Appendix A. System Validation Plots

System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2020-07-07

Experimental conditions.

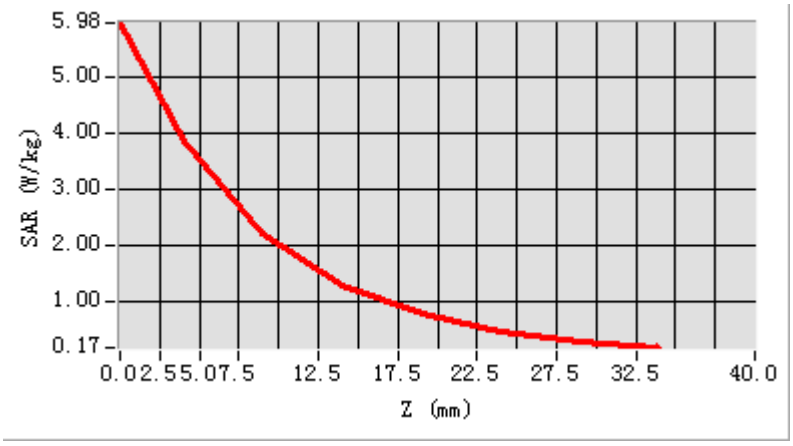
Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	39.80
Conductivity (S/m)	1.42
Power drift (%)	0.23
Probe	SN 41/18 EPGO334
ConvF	1.60
Crest factor:	1:1

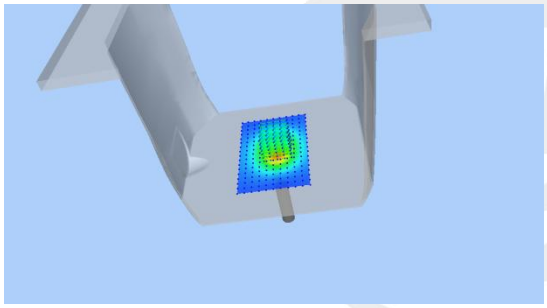
SURFACE SAR	VOLUME SAR
	

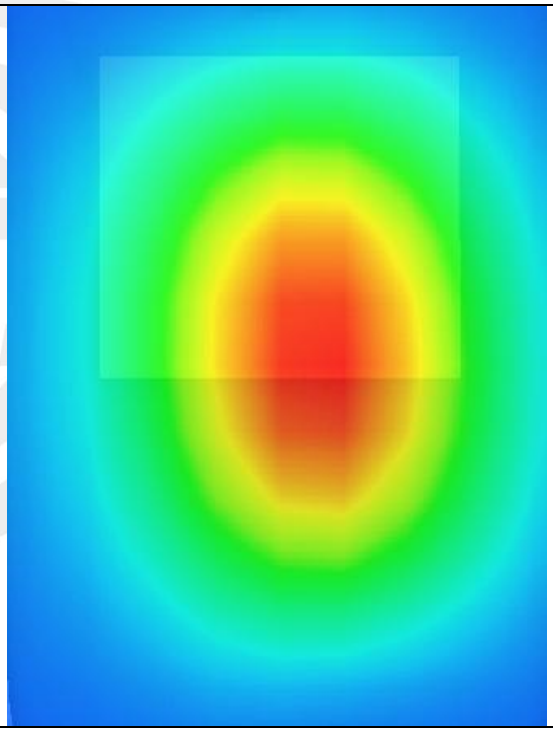
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	2.021559
SAR 1g (W/Kg)	3.744825

Z Axis Scan


5.98
5.00
4.00
3.00
2.00
1.00
0.17
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



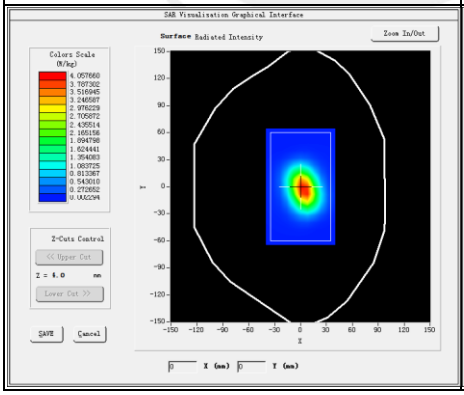
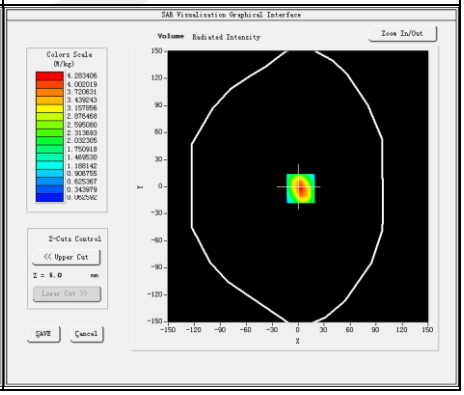


System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2020-07-08

Experimental conditions.

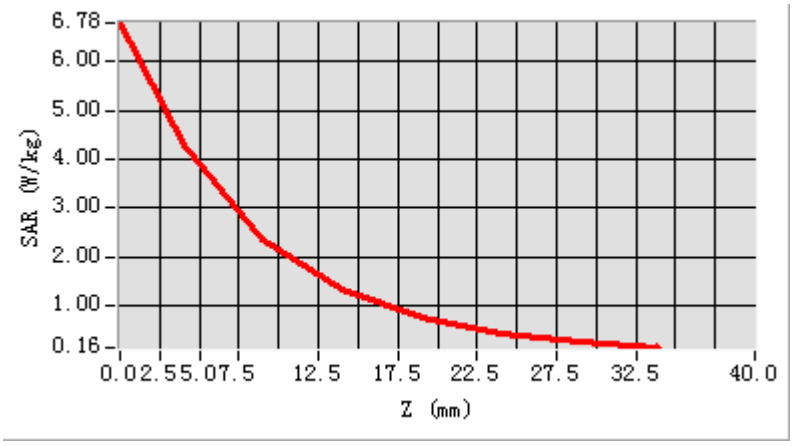
Phantom	Validation plane
Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	38.90
Conductivity (S/m)	1.44
Power drift (%)	0.46
Probe	SN 41/18 EPGO334
ConvF:	1.84
Crest factor:	1:1

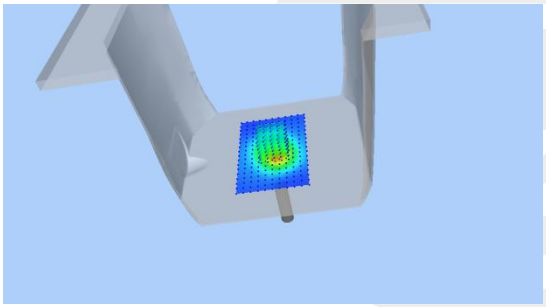
SURFACE SAR	VOLUME SAR
	

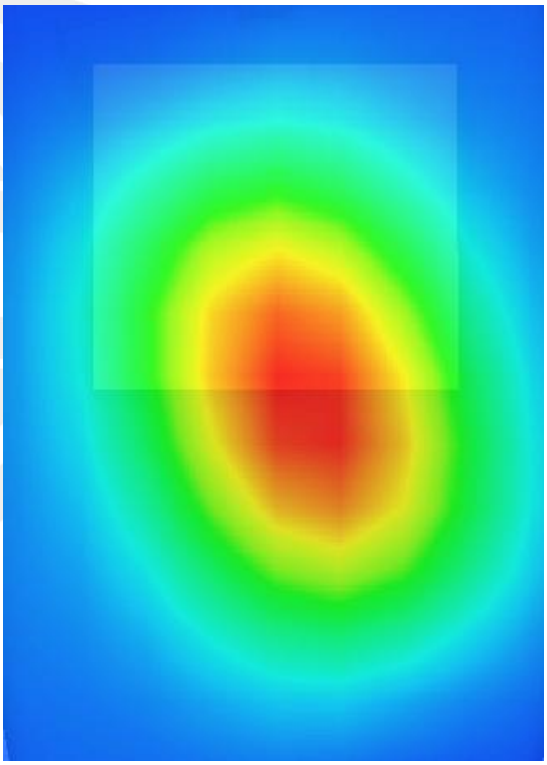
Maximum location: X=3.00, Y=-2.00

SAR 10g (W/Kg)	2.095321
SAR 1g (W/Kg)	4.107245

Z Axis Scan


6.78
6.00
5.00
4.00
3.00
2.00
1.00
0.16
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



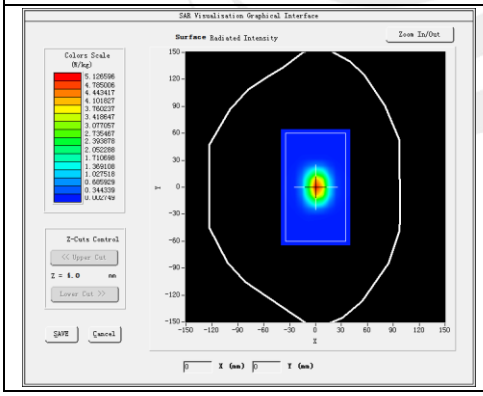
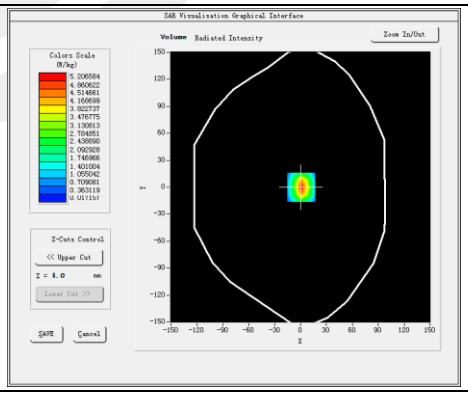


System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2020-07-09

Experimental conditions.

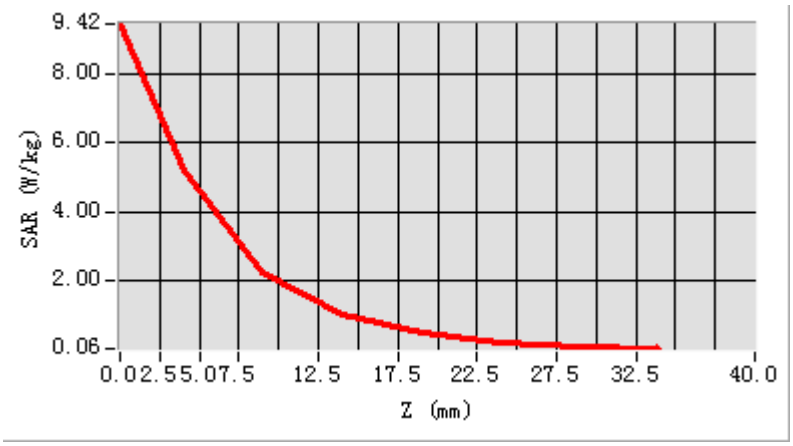
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	40.10
Conductivity (S/m)	1.86
Power drift (%)	-0.38
Probe	SN 41/18 EPGO334
ConvF	1.97
Crest factor:	1:1

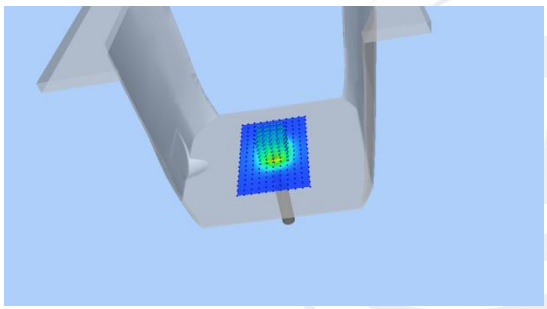
SURFACE SAR	VOLUME SAR
	

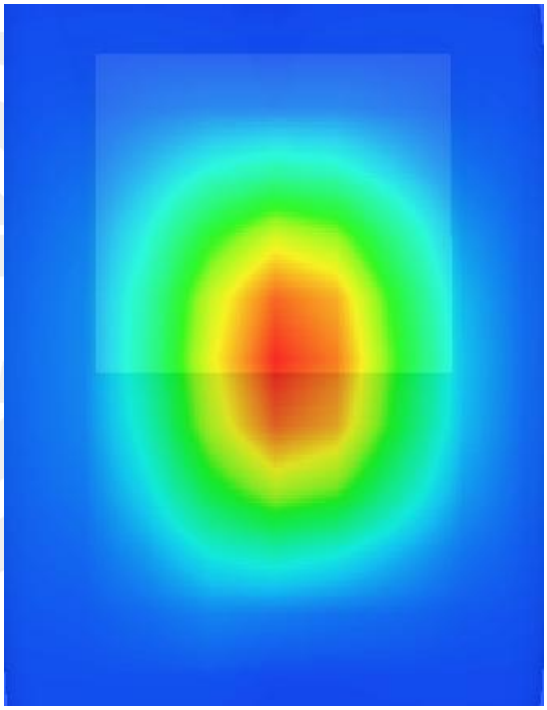
Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	2.489526
SAR 1g (W/Kg)	5.089354

Z Axis Scan


9.42
8.00
6.00
4.00
2.00
0.06
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



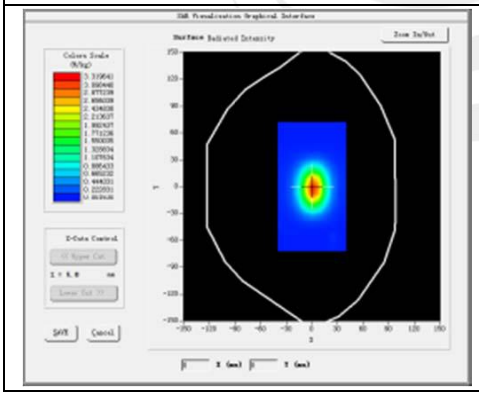
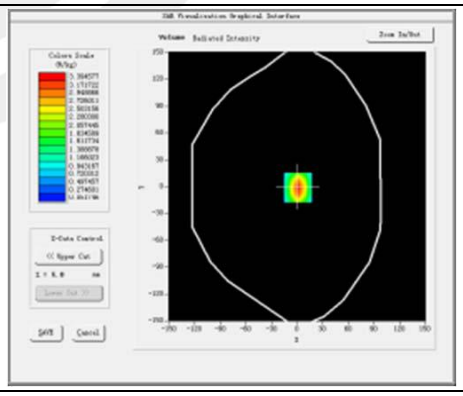


System Performance Check Data(5200MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2020-07-10

Experimental conditions.

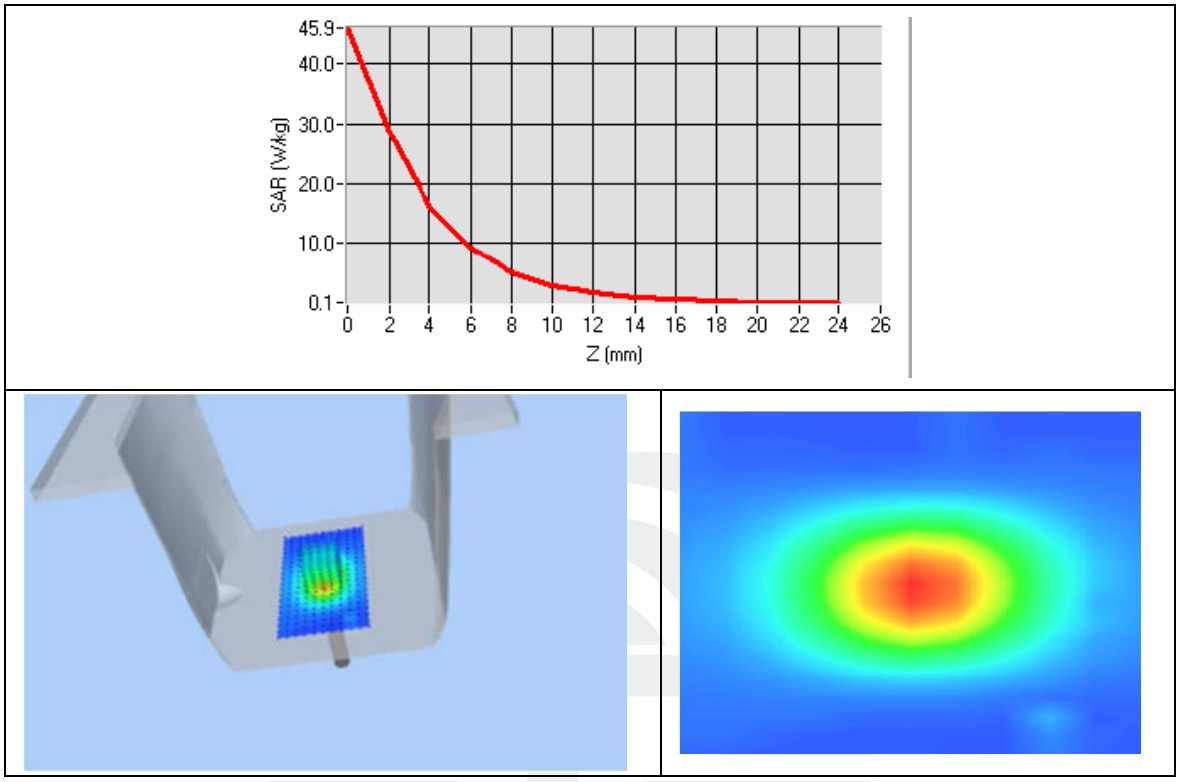
Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	37.59
Conductivity (S/m)	4.47
Power drift (%)	4.14
Probe	SN 41/18 EPGO334
ConvF	2.46
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.514027
SAR 1g (W/Kg)	15.881014

Z Axis Scan

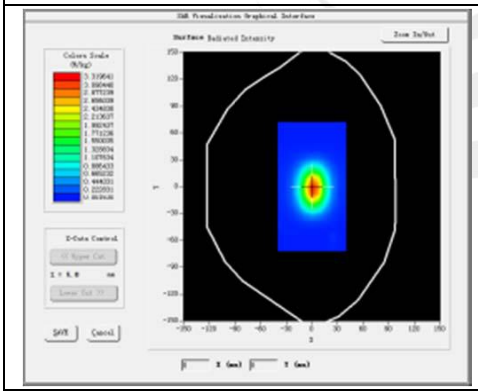
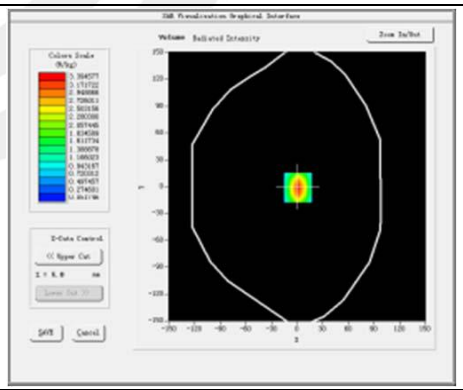


System Performance Check Data(5800MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2020-07-10

Experimental conditions.

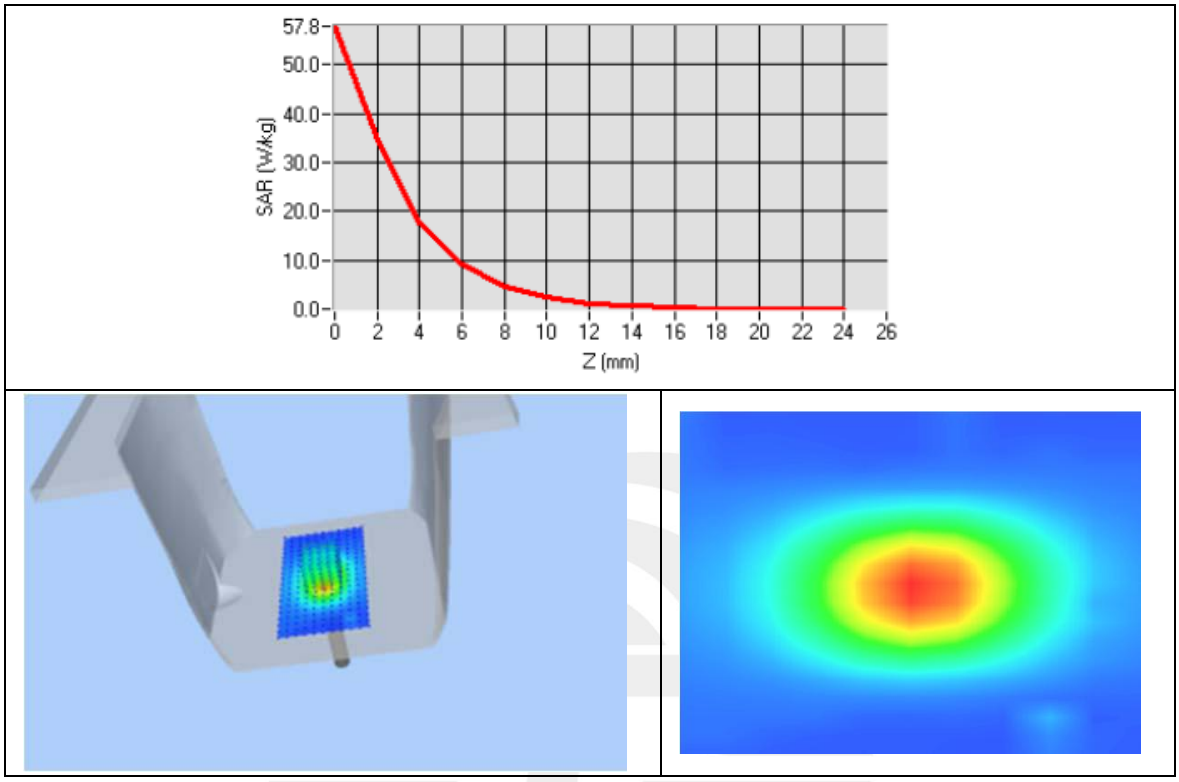
Device Position	Validation plane
Band	5800 MHz
Channels	-
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.27
Conductivity (S/m)	5.11
Power drift (%)	-1.00
Probe	SN 41/18 EPGO334
ConvF	2.60
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.290723
SAR 1g (W/Kg)	18.541394

Z Axis Scan


57.8
50.0
40.0
30.0
20.0
10.0
0.0
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)

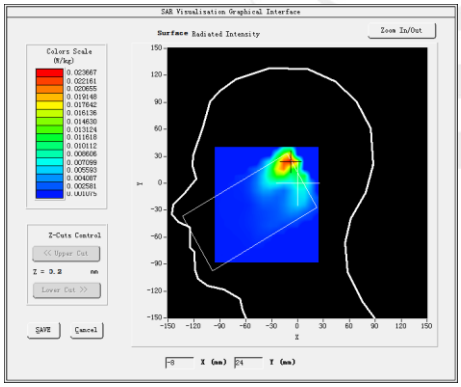
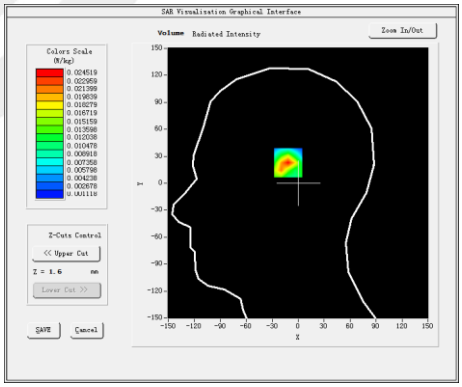
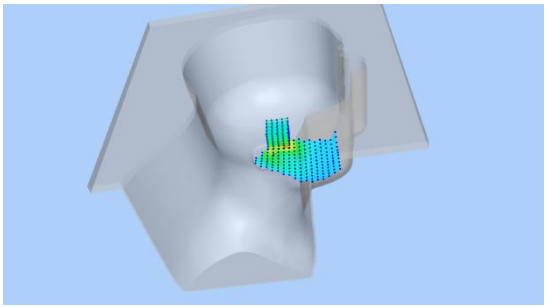
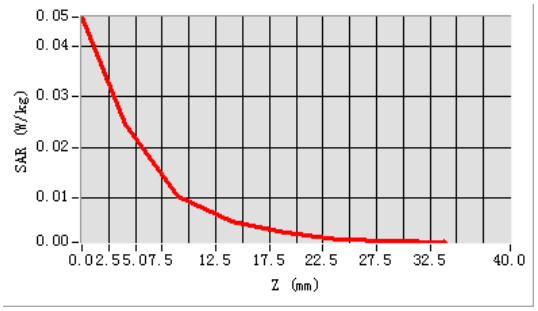
Appendix B. SAR Test Plots

Plot 1: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-09
Probe	SN 41/18 EPGO334
ConvF	1.97
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	40.1
Conductivity (S/m)	1.86

Maximum location: X=-9.00, Y=25.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.010189
SAR 1g (W/Kg)	0.022731

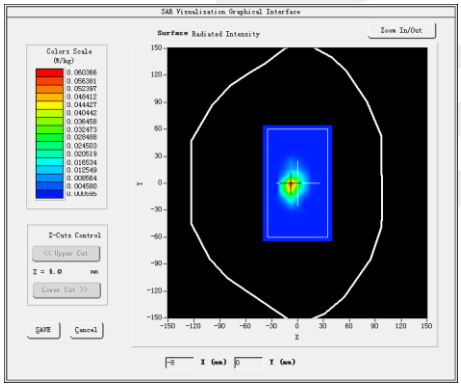
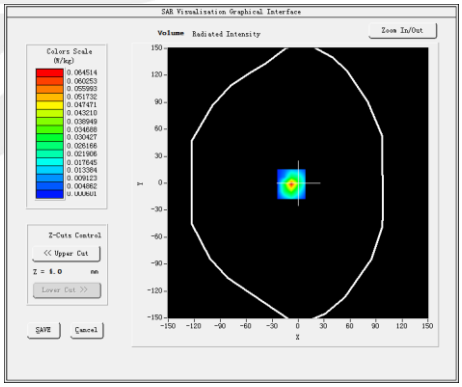
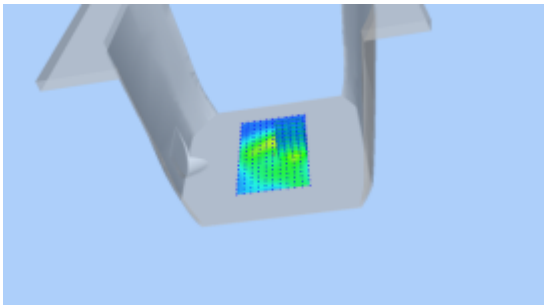
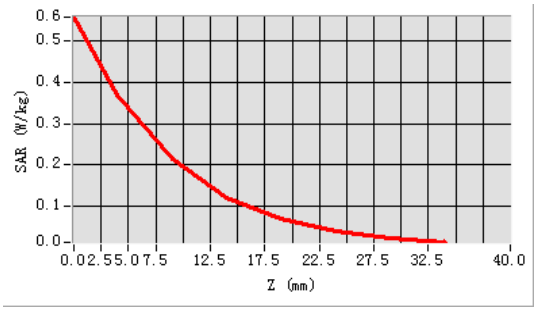
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 2: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-09
Probe	SN 41/18 EPGO334
ConvF	1.97
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	40.1
Conductivity (S/m)	1.86

Maximum location: X=-8.00, Y=-1.00
SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.016632
SAR 1g (W/Kg)	0.056433

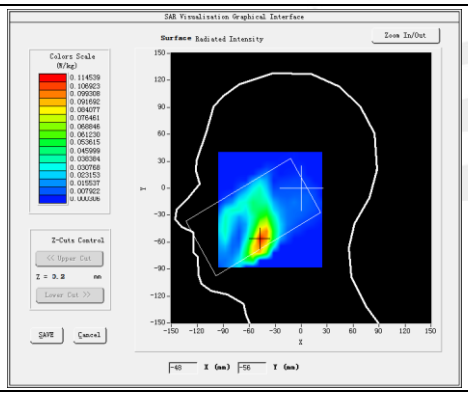
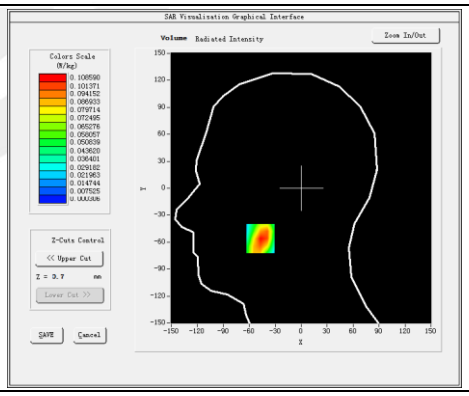
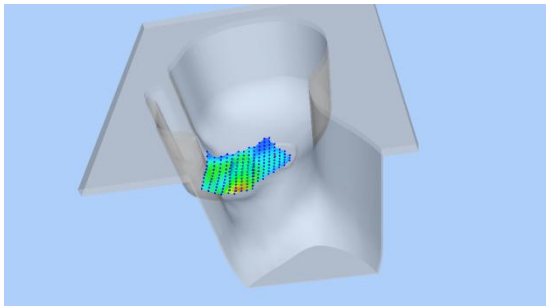
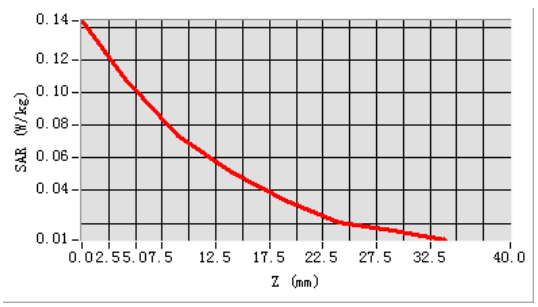
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 3: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-08
Probe	SN 41/18 EPGO334
ConvF	1.84
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1900
Relative permittivity (real part)	38.9
Conductivity (S/m)	1.44

Maximum location: X=-47.00, Y=-56.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.059206
SAR 1g (W/Kg)	0.103412

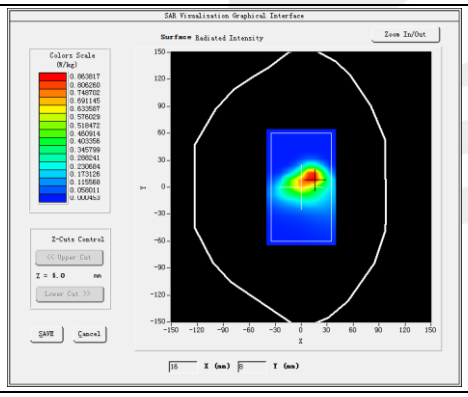
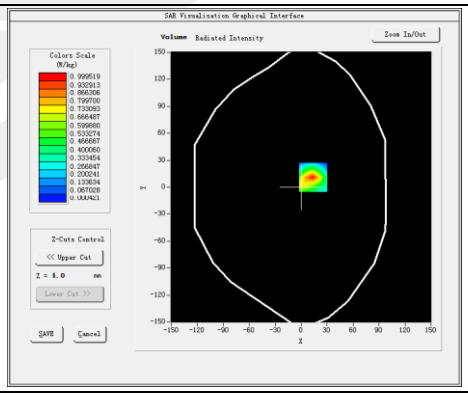
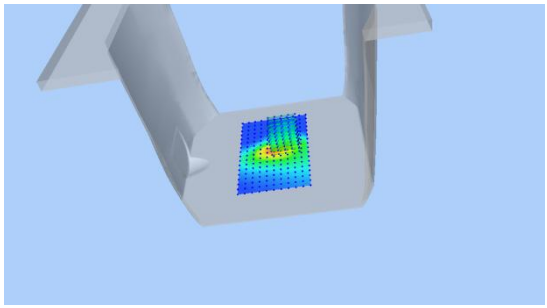
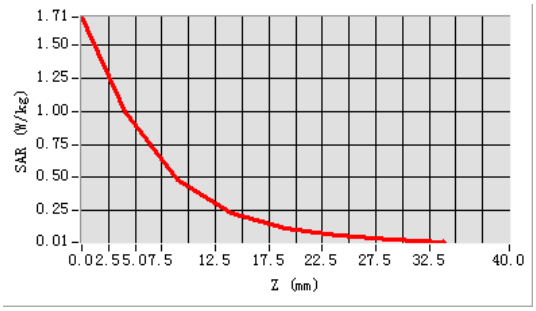
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 4: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-08
Probe	SN 41/18 EPGO334
ConvF	1.84
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 2(RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1900
Relative permittivity (real part)	38.9
Conductivity (S/m)	1.44

Maximum location: X=14.00, Y=11.00
SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.402294
SAR 1g (W/Kg)	0.903663

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

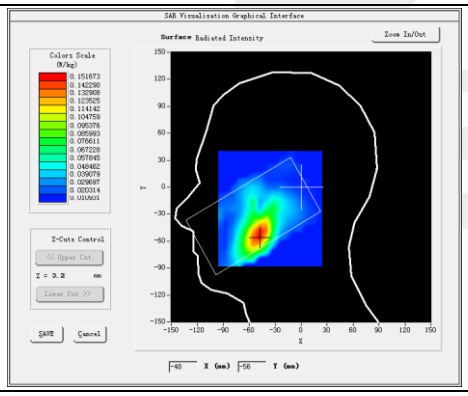
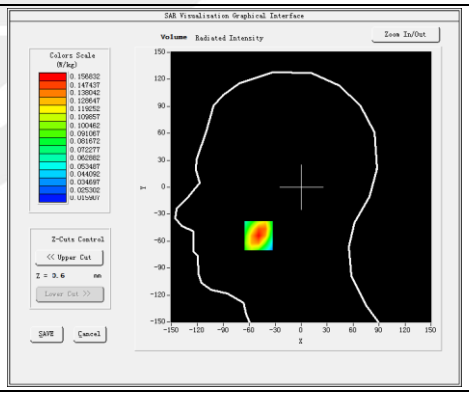
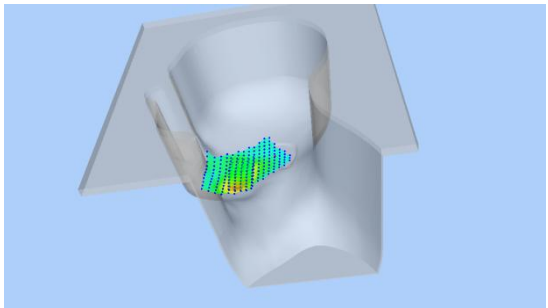
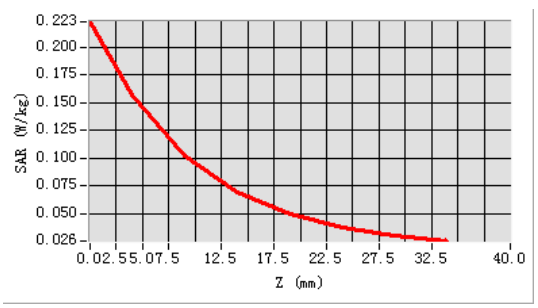
Plot 5: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-07
Probe	SN 41/18 EPGO334
ConvF	1.60
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	39.80
Conductivity (S/m)	1.42

Maximum location: X=-49.00, Y=-54.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.085143
SAR 1g (W/Kg)	0.149826

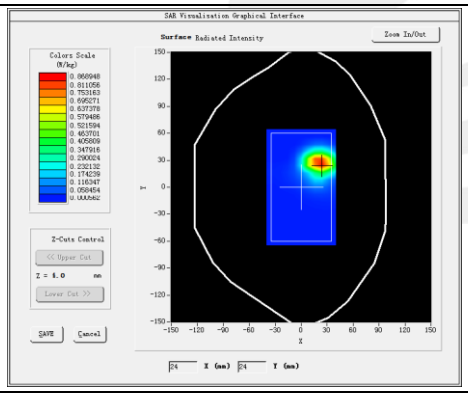
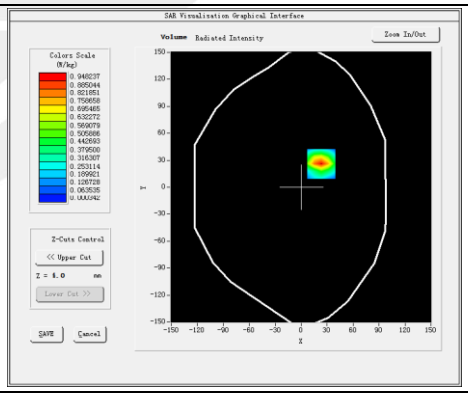
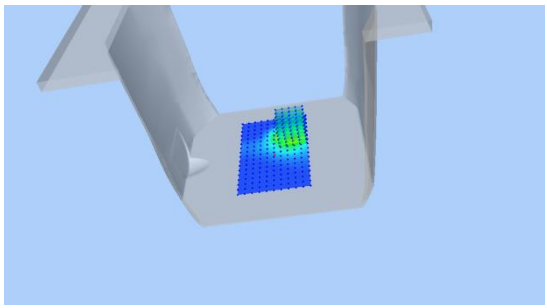
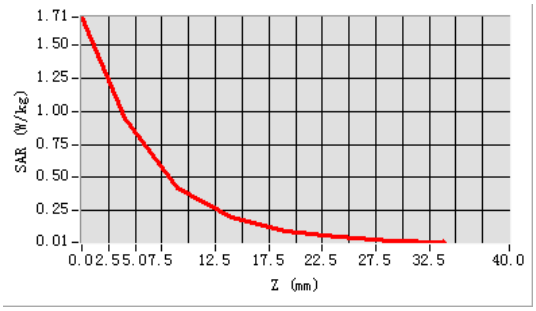
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 6: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-07
Probe	SN 41/18 EPGO334
ConvF	1.60
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	39.80
Conductivity (S/m)	1.42

Maximum location: X=23.00, Y=26.00
SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.383575
SAR 1g (W/Kg)	0.887366

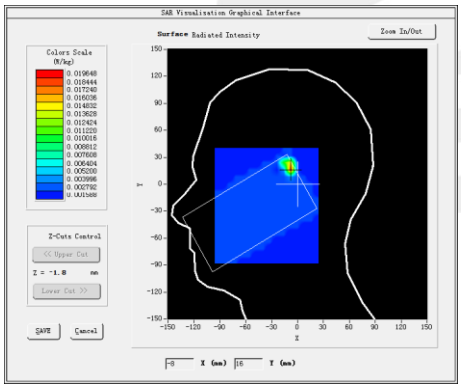
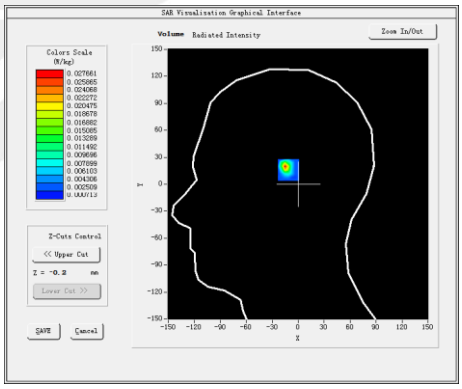
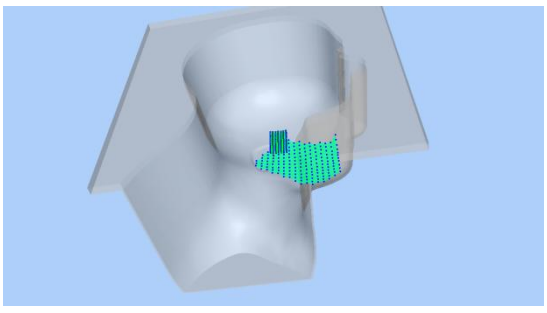
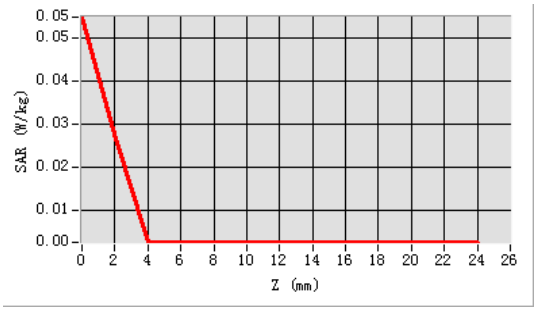
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 7: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-10
Probe	SN 41/18 EPGO334
ConvF	2.46
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11a ISM
Channels	36
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	37.59
Conductivity (S/m)	4.47

Maximum location: X=-8.00, Y=17.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.005538
SAR 1g (W/Kg)	0.022625

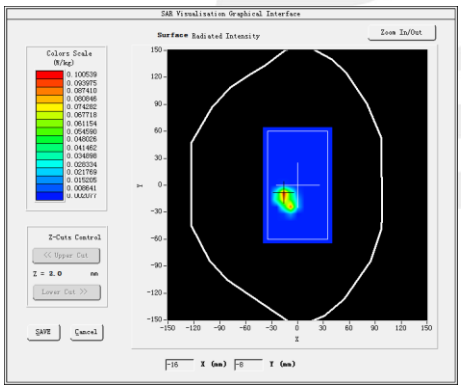
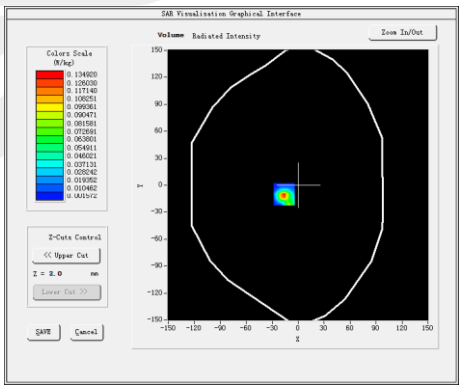
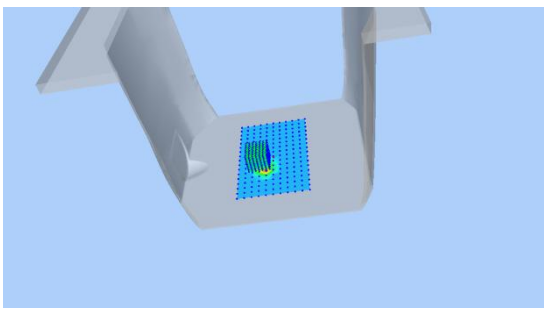
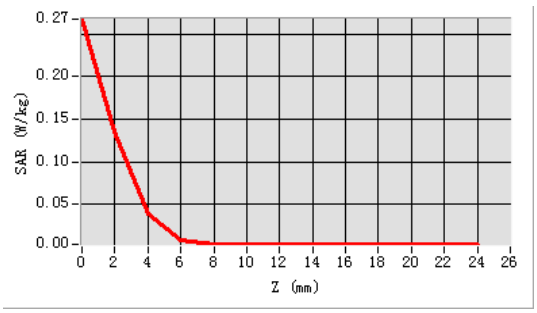
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 8: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-09
Probe	SN 41/18 EPGO334
ConvF	2.46
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Channels	36
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	37.59
Conductivity (S/m)	4.47

Maximum location: X=-16.00, Y=-10.00
SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.016010
SAR 1g (W/Kg)	0.062916

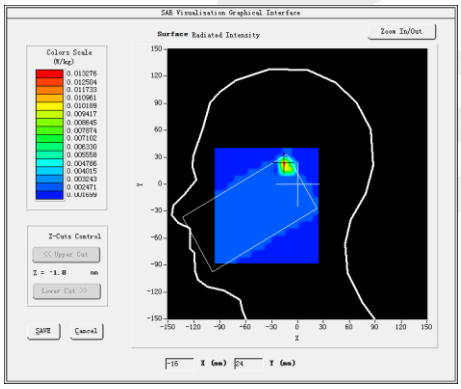
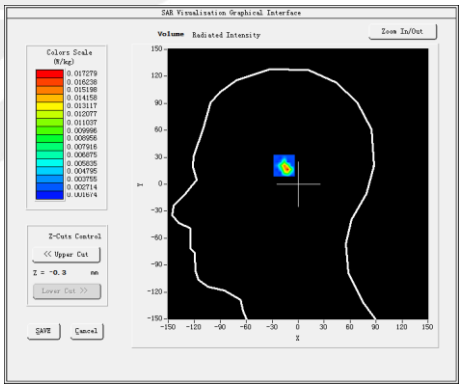
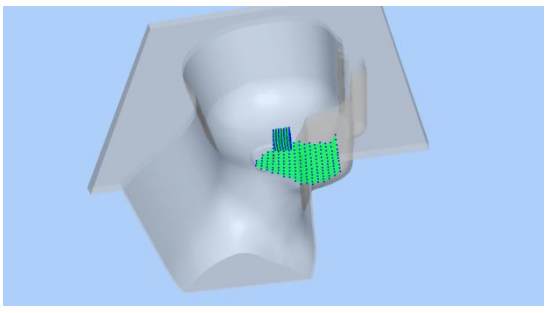
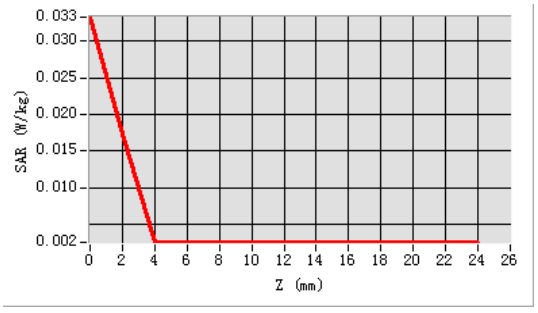
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 9: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-10
Probe	SN 41/18 EPGO334
ConvF	2.60
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11a ISM
Channels	165
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	36.27
Conductivity (S/m)	5.11

Maximum location: X=-15.00, Y=23.00
SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.004398
SAR 1g (W/Kg)	0.014550

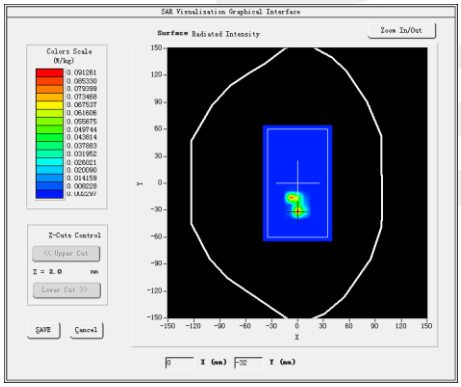
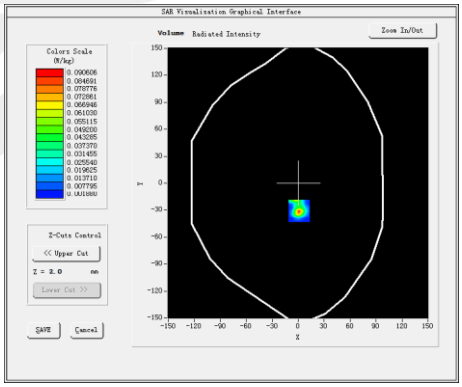
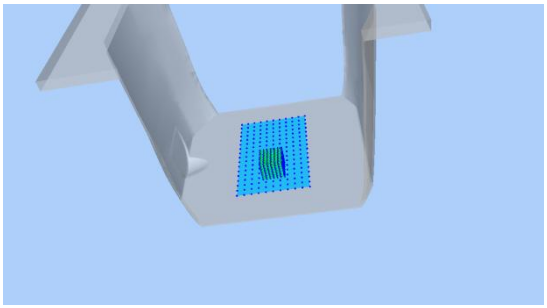
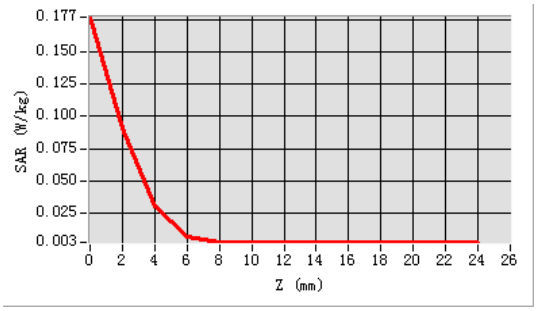
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 10: DUT: Tablet PC; EUT Model: X8MT87

Test Date	2020-07-09
Probe	SN 41/18 EPGO334
ConvF	2.60
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Channels	165
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	36.27
Conductivity (S/m)	5.11

Maximum location: X=1.00, Y=-31.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.009048
SAR 1g (W/Kg)	0.037886

SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※