FCC SAR TEST REPORT

Report No: STS1601006H01

Issued for

UNNECTO HOLDING LIMITED

13/F HARBOUR COMMERCIAL BUILDING 122-124
CONNAUGHT ROAD CENTRAL SHEUNG WAN HK

Product Name:	4G MOBILE PHONE
Brand Name:	unnecto ™
Model No.:	U4051
Series Model:	N/A
FCC ID:	2ADR3U4051
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Report SAR (1g):	Head:0.746 W/kg
	Body:0.417 W/kg

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Test Report Certification

Applicant's name ..... :	UNNECTO HOLDING LIMITED
Address ..... :	13/F HARBOUR COMMERCIAL BUILDING 122-124 CONNAUGHT ROAD CENTRAL SHEUNG WAN HK
Manufacture's Name ..... :	TEM MOBILE LIMITED
Address ..... :	No 1708,Cangsong building,Tairan 6 Road,Futian Shenzhen, China

Product description

Product name ..... :	4G MOBILE PHONE
Trademark ..... :	unnecto ™
Model and/or type reference :	U4051
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 ..... :	08 Jan. 2016
Date of Issue ..... :	13 Jan. 2016
Test Result ..... :	**Pass**

Testing Engineer : Allen Chen

(Allen Chen)

Technical Manager : John Zou

(John Zou)

Authorized Signatory : Bovey Yang

(Bovey Yang)

TABLE OF CONTENS

Appendix C. Probe Calibration And Dipole Calibration Report 151

1. General Information

1.1 EUT Description

Equipment	4G MOBILE PHONE	
Brand Name	unnecto ™	
Model No.	U4051	
Serial Model	N/A	
FCC ID	2ADR3U4051	
Model Difference	N/A	
Adapter	Input: AC100-240V,150m A, 50/60 Hz Output: DC 5V, 700mA	
Battery	Rated Voltage: 3.7V; Charge Limit: 4.2V; Capacity: 1600mAh	
Hardware Version	FD500MB	
Software Version	FD500_D_QM_FACTORY_release_20151209163547_test	
Frequency Range	GSM 850:824.2~848.8MHz PCS1900:1850.2~1909.8MHz WCDMA Band II:1852.4~1907.6MHz WCDMA Band V:826.4~846.6MHz LTE Band 2:1850.7~1909.3MHz LTE Band 4:1710.7~1754.3MHz	LTE Band 12:699.7~715.3MHz LTE Band 17:706.5~713.5MHz WLAN 802.11b/g/n(HT20):2412~2462MHz WLAN 802.11n(HT40):2422~2452MHz Bluetooth:2402~ 2480MHz
Transmit Power(MAX):	GSM 850: 28.99 dBm GSM 1900: 28.73 dBm WCDMA Band II: 21.69 dBm WCDMA Band V: 21.72 dBm LTE Band 2: 21.52 dBm LTE Band 4: 22.71 dBm LTE Band 12: 22.71 dBm	LTE Band 17: 22.63 dBm 802.11b: 11.5 dBm 802.11g: 7.7 dBm 802.11n(HT20): 7.6 dBm 802.11n(HT40): 6.5 dBm Bluetooth: 1.765 dBm
Max. Reported SAR(1g):	Head: GSM 850: 0.106 W/kg GSM 1900: 0.204 W/kg WCDMA Band II: 0.323 W/kg WCDMA Band V: 0.081 W/kg LTE Band 2: 0.264 W/kg LTE Band 4: 0.156 W/kg LTE Band 12: 0.007 W/kg LTE Band 17: 0.102 W/kg WIFI: 0.746 W/kg	Body: GSM 850: 0.321 W/kg GSM 1900: 0.417 W/kg WCDMA Band II: 0.301 W/kg WCDMA Band V: 0.072 W/kg LTE Band 2: 0.202 W/kg LTE Band 4: 0.147 W/kg LTE Band 12: 0.016 W/kg LTE Band 17: 0.186 W/kg WIFI: 0.245 W/kg
Operating Mode:	GSM: GSM Voice; GPRS; EGPRS Class 12; WCDMA:RMC,HSDPA,HSUPA Release 6; LTE:QPSK,16QAM; WLAN: 802.11 b/g/n(HT20) /n(HT40); Bluetooth: V4.0 + EDR (GFSK +π/4DQPSK+8DPSK) ;	
Antenna Specification:	GSM,WCDMA,LTE: PIFA Antenna BT,WIFI: PIFA Antenna	
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time	
Hotspot Mode:	Support	
DTM Mode:	Not Support	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required	Actual
Temperature (℃)	18-25	22~23
Humidity (%RH)	30-70	55~65

1.3 Test Facility

Shenzhen STS Test Services Co., Ltd.
Add. : 1/F, Building B, Zhuoke Science Park,No.190, Chongqing Road, Fuyong, Baoan District, Shenzhen, Guangdong, China
CNAS Registration No.: L7649;
FCC Registration No.: 842334;
IC Registration No.: 12108A-1

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 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r04	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

(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 10 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:

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

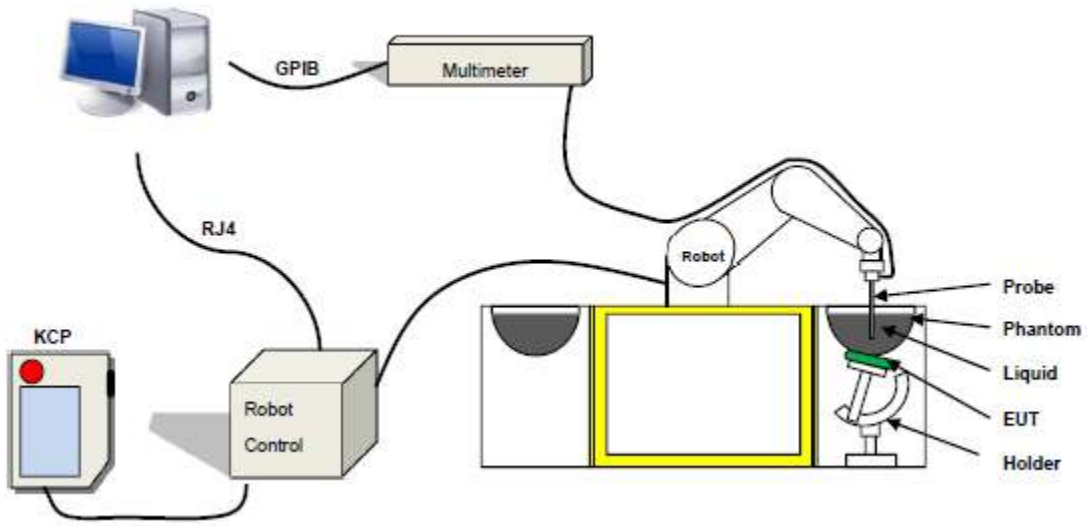
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

SATIMO 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 OpenSAR 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 17/14 EP221 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter :5 mm
- Distance between probe tip and sensor center: 2.7mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
- Probe linearity: < 0.25 dB
- Axial Isotropy: < 0.25 dB
- Spherical Isotropy: < 0.25 dB
- Calibration range: 450MHz to 2600MHz for head & body simulating liquid.

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

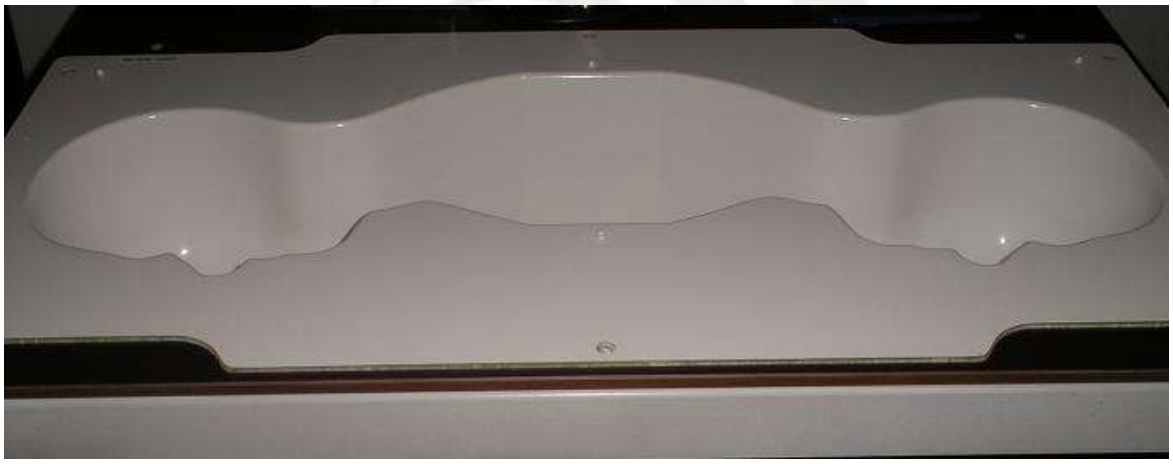
Figure 1 – *Satimo COMOSAR Dosimetric E field Dipole*

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.

LIQUID MEASUREMENT RESULTS

Date: 08 Jan. 2016 **Ambient condition:** Temperature 22.7°C **Relative humidity:** 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
750 MHz	22.30	Permitivity:	41.9	41.2	-1.67	±5
		Conductivity:	0.89	0.91	2.25	± 5
835 MHz	22.30	Permitivity:	41.5	41	-1.20	±5
		Conductivity:	0.9	0.86	-4.44	± 5
1800 MHz	22.30	Permitivity:	40.1	40.2	0.25	±5
		Conductivity:	1.37	1.31	-4.38	± 5
1900 MHz	22.30	Permitivity:	40	39.5	-1.25	± 5
		Conductivity:	1.4	1.43	2.14	± 5
2450 MHz	22.30	Permitivity:	39.2	39.18	-0.05	± 5
		Conductivity:	1.8	1.88	4.44	± 5

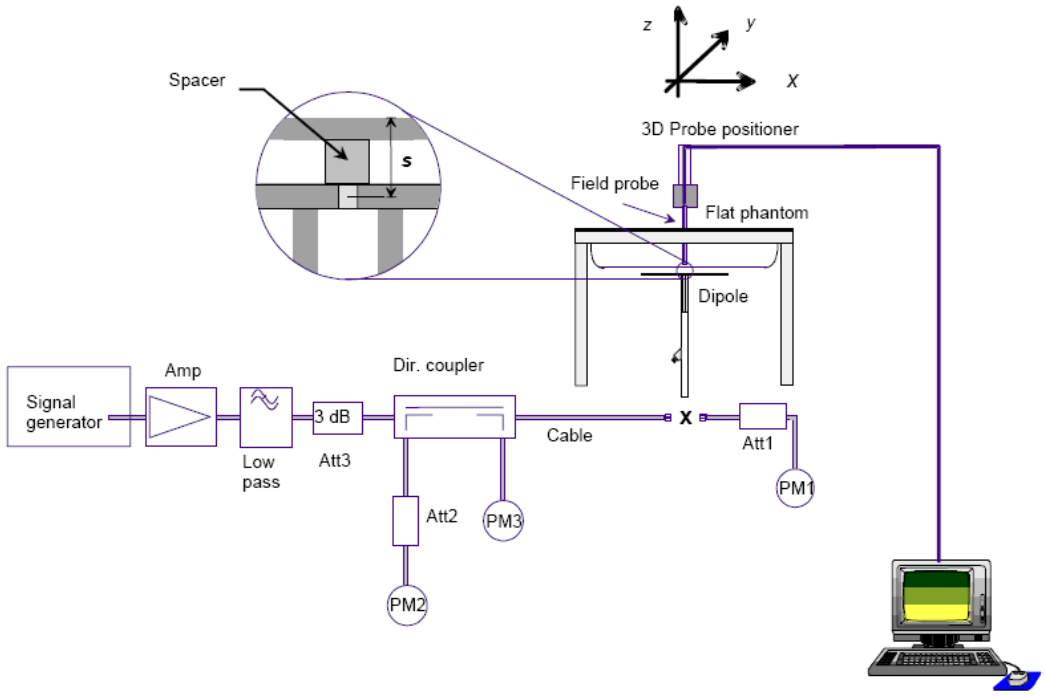
Body Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
750 MHz	22.30	Permitivity:	55.5	55.26	-0.43	± 5
		Conductivity:	0.96	0.91	-5.21	± 5
835 MHz	22.30	Permitivity:	55.2	54.7	-0.91	± 5
		Conductivity:	0.97	0.98	1.03	± 5
1800 MHz	22.30	Permitivity:	53.4	52.6	-1.50	± 5
		Conductivity:	1.49	1.38	-7.38	± 5
1900 MHz	22.30	Permitivity:	53.3	52.31	-1.86	± 5
		Conductivity:	1.52	1.5	-1.32	± 5
2450 MHz	22.30	Permitivity:	52.7	52.32	-0.72	± 5
		Conductivity:	1.95	1.92	-1.54	± 5

5. SAR System Validation

5.1 Validation System

Each SATIMO system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the SATIMO 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 SATIMO, the validation data should be within its specification of 10 %.

Ambient condition: Temperature 22.7°C **Relative humidity:** 49%

Freq.(MHz)	Power(mW)	Tested Value (W/Kg)	Normalized SAR (W/kg)	Target(W/Kg)	Tolerance(%)	Date
750 Head	100	0.838	8.38	8.49	-1.30	2016-01-13
750 Body	100	0.856	8.56	8.49	0.82	2016-01-13
835 Head	100	0.937	9.37	9.56	-1.99	2016-01-13
835 Body	100	0.947	9.47	9.56	-0.94	2016-01-13
1800 Head	100	3.76	37.6	38.4	-2.08	2016-01-13
1800 Body	100	3.88	38.8	38.4	1.04	2016-01-13
1900 Head	100	3.856	38.56	39.8	-3.12	2016-01-13
1900 Body	100	3.986	39.86	39.8	0.15	2016-01-13
2450 Head	100	5.392	53.92	52.4	2.90	2016-01-13
2450 Body	100	5.164	51.64	52.4	-1.45	2016-01-13

Note: The tolerance limit of System validation ±10%.

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 D01v01r01 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 4G MOBILE PHONE, support GSM/WCDMA/LTE mode.

WWAN Antenna

WIFI/BT Antenna

7.1 SAR TEST EXCLUSION CONSIDER TABLE

According with FCC KDB 447498 D01v05r02，appendix A，<SAR test exclusion thresholds for 100MHz~6GHz and≤50mm＞table，this device SAR test configurations consider as following：

Band	Test position configurations					
	Front	Back	Right edge	Left edge	Top edge	Bottom edge
GSM850	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
GSM1900	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band II	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band V	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	＜5mm	＜5mm	＜5mm	21mm	105mm	＜5mm
	Yes	Yes	Yes	Yes	No	Yes
WLAN	＜5mm	＜5mm	45mm	＜5mm	＜5mm	93mm
	Yes	Yes	No	Yes	Yes	No
Bluetooth	＜5mm	＜5mm	45mm	＜5mm	＜5mm	93mm
	Yes	Yes	No	Yes	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 D01v05r02, 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 D01v05r02, 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 D01v05r02, 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

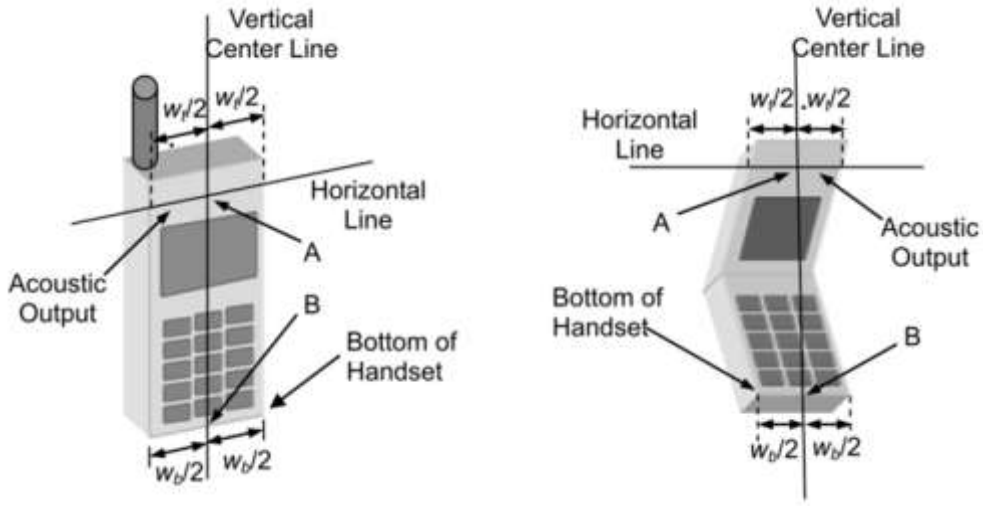
5. per KDB 447498 D01v05r02, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]Mw, at 100 MHz to 1500 MHz
b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at＞1500MHz and≤6GHz
6. Per KDB 447498 D02v02r02,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 D01v01r02,choose the highest output power channel to test SAR and determine futher 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.



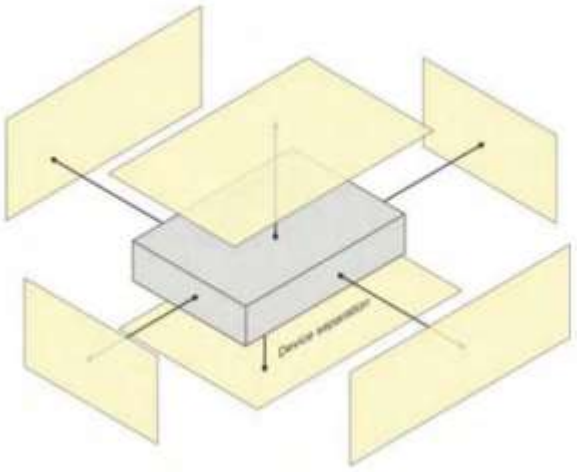
Cheek Position
1)To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane 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 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
(1) To position the EUT parallel to the phantom surface.
(2) To adjust the EUT parallel to the flat phantom.
(3) To adjust the distance between the EUT surface and the flat phantom to 5mm.

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: 2003.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Measurement System									
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
2	Axial isotropy	3.5	R	√3	$(1\text{-cp})^{1/2}$	$(1\text{-cp})^{1/2}$	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	√3	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞
5	Linearity	4.7	R	√3	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	∞
7	Readout electronics	0.5	N	1	1	1	0.50	0.50	∞
8	Response time	0	R	√3	1	1	0	0	∞
9	Integration time	1.4	R	√3	1	1	0.81	0.81	∞
10	Ambient noise	3.0	R	√3	1	1	1.73	1.73	∞
11	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	∞
12	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	∞
13	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	∞
14	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	∞
Test sample related									

15	Device positioning	2.6	N	1	1	1	2.6	2.6	11
16	Device holder	3	N	1	1	1	3.0	3.0	7
17	Drift of output power	5.0	R	√3	1	1	2.89	2.89	∞
Phantom and set-up									
18	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	∞
19	Liquid conductivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	5
20	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5
21	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	∞
22	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	∞
Combined standard			RSS	$U_C = \sqrt{\sum_{i=1}^{n} C_i^2 U_i^2}$			10.63%	10.54%	
Expanded uncertainty (P=95%)		$U = k\, U_C$,k=2					21.26%	21.08%	

9.2 System validation Uncertainty

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Measurement System									
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
2	Axial isotropy	3.5	R	√3	$(1\text{-cp})^{1/2}$	$(1\text{-cp})^{1/2}$	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	√3	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞
5	Linearity	4.7	R	√3	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	∞
7	Modulation response	0	N	1	1	1	0	0	∞
8	Readout electronics	0.5	N	1	1	1	0.50	0.50	∞
9	Response time	0	R	√3	1	1	0	0	∞
10	Integration time	1.4	R	√3	1	1	0.81	0.81	∞
11	Ambient noise	3.0	R	√3	1	1	1.73	1.73	∞
12	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	∞
13	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	∞
14	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	∞
15	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	∞
Dipole									
16	Deviation of experimental source from	4	N	1	1	1	4.00	4.00	∞

17	Input power and SAR drit measurement	5	R	√3	1	1	2.89	2.89	∞
18	Dipole Axis to liquid Distance	2	R	√3	1	1			∞
Phantom and set-up									
19	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	∞
20	Uncertainty in SAR correction for deviation(in	2.0	N	1	1	0.84	2	1.68	∞
21	Liquid conductivity (target)	2	N	1	1	0.84	2.00	1.68	∞
22	Liquid conductivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5
23	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5
24	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	∞
25	Liquid Permittivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5
26	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	∞
Combined standard			RSS	$U_C = \sqrt{\sum_{i=1}^{n} C_i^2 U_i^2}$			10.15%	10.05%	
Expanded uncertainty (P=95%)		$U = k\,U_C$,k=2					21.29%	21.10%	

10. Conducted Power Measurement

Test Result:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	31.48	31.39	31.28	27.92	27.63	27.51
GPRS (GMSK, 1-Slot)	31.41	31.32	31.22	27.84	27.57	27.44
GPRS (GMSK, 2-Slot)	30.48	30.54	30.41	27.01	26.81	26.64
GPRS (GMSK, 3-Slot)	29.17	29.31	29.15	25.67	25.44	25.34
GPRS (GMSK, 4-Slot)	28.50	28.70	28.62	25.15	24.75	24.70
EGPRS(8PSK, 1-Slot)	31.33	31.25	31.12	27.78	27.56	27.42
EGPRS(8PSK, 2-Slot)	30.49	30.45	30.29	26.85	26.59	26.51
EGPRS(8PSK, 3-Slot)	29.17	29.12	28.92	25.46	25.28	25.17
EGPRS(8PSK, 4-Slot)	28.52	28.43	28.26	24.87	24.61	24.53
Remark: GPRS, CS4 coding scheme. EGPRS, MCS9 coding scheme. Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link						

Fram- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	22.48	22.39	22.28	18.92	18.63	18.51
GPRS (GMSK, 1-Slot)	22.41	22.32	22.22	18.84	18.57	18.44
GPRS (GMSK, 2-Slot)	24.48	24.54	24.41	21.01	20.81	20.64
GPRS (GMSK, 3-Slot)	24.91	25.05	24.89	21.41	21.18	21.08
GPRS (GMSK, 4-Slot)	25.50	25.70	25.62	22.15	21.75	21.70
EGPRS(8PSK, 1-Slot)	22.33	22.25	22.12	18.78	18.56	18.42
EGPRS(8PSK, 2-Slot)	24.49	24.45	24.29	20.85	20.59	20.51
EGPRS(8PSK, 3-Slot)	24.91	24.86	24.66	21.20	21.02	20.91
EGPRS(8PSK, 4-Slot)	25.52	25.43	25.26	21.87	21.61	21.53
Remark : 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 Tx Slot) - 9 dB Frame-averaged power = Burst averaged power (2 Tx Slots) - 6 dB Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 Tx Slots) - 3 dB						

WCDMA

Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9263	9400	9537
Frequency (MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6
RMC 12.2Kbps	21.37	21.39	21.46	21.51	21.48	21.46
HSDPA Subtest-1	20.94	20.99	21.01	21.04	21.04	20.98
HSDPA Subtest-2	20.57	20.55	20.52	20.54	20.50	20.58
HSDPA Subtest-3	20.09	20.06	20.03	20.06	20.05	20.10
HSDPA Subtest-4	19.56	19.49	19.33	19.50	19.50	19.58
HSUPA Subtest-1	20.48	20.58	20.58	20.61	20.57	20.49
HSUPA Subtest-2	20.13	20.10	20.08	20.21	20.12	20.17
HSUPA Subtest-3	19.71	19.65	19.63	19.76	19.65	19.74
HSUPA Subtest-4	19.05	18.97	18.94	19.12	19.02	19.05
HSUPA Subtest-5	18.36	18.38	18.36	18.51	18.48	18.38

According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for βc/βd=12/15, βhs/ βc=24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

WIFI

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
802.11b	1	2412	11.9
	6	2437	12.3
	11	2462	12.5
802.11g	1	2412	9.7
	6	2437	10.4
	11	2462	10.5
802.11n(HT 20)	1	2412	9.6
	6	2437	10.4
	11	2462	10.5
802.11n(HT 40)	3	2422	8.2
	6	2437	9.6
	9	2452	9.4

Bluetooth

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
GFSK(1Mbps)	0	2402	-2.572
	39	2441	0.353
	78	2480	-1.430
π/4-DQPSK(2Mbps)	0	2402	-3.301
	39	2441	-0.557
	78	2480	-2.166
8-DPSK(3Mbps)	0	2402	-3.377
	39	2441	-0.585
	78	2480	-2.262

BT 4.0

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
GFSK(1Mbps)	0	2402	-9.268
	19	2422	-7.148
	39	2442	-8.356

LTE Conducted Power

General Note:

1. Anritsu MT8820C 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 D05v02r03, 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 D05v02r03, 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 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r03, 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 ≤ 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 D05v02r03, 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 ≤ 1.45 W/kg; Per KDB 941225 D05v02r03, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r03, 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 ≤ 1.45 W/kg; Per KDB 941225 D05v02r03, smaller bandwidth SAR testing is not required.

LTE Band 2

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				18700	18900	19100
Frequency(MHz)				1860	1880	1900
20	QPSK	1	0	22.90	23.08	23.01
20	QPSK	1	50	23.10	22.71	22.86
20	QPSK	1	99	23.10	22.84	21.57
20	QPSK	50	0	22.06	21.97	21.89
20	QPSK	50	24	22.11	21.95	21.86
20	QPSK	50	50	22.12	21.93	21.44
20	QPSK	100	0	22.05	21.94	21.82
20	16QAM	1	0	21.90	22.41	22.38
20	16QAM	1	50	22.07	22.12	22.36
20	16QAM	1	99	22.11	22.30	21.14
20	16QAM	50	0	21.06	21.05	20.93
20	16QAM	50	24	21.23	20.98	20.87
20	16QAM	50	50	21.27	20.95	20.41
20	16QAM	100	0	21.15	21.10	20.90
Channel				18675	18900	19125
Frequency(MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.99	23.00	22.97
15	QPSK	1	38	22.97	22.72	22.62
15	QPSK	1	75	23.03	22.82	21.68
15	QPSK	36	0	22.07	22.00	21.91
15	QPSK	36	18	22.05	22.05	21.76
15	QPSK	36	75	22.08	22.00	21.29
15	QPSK	75	0	22.08	22.10	21.69
15	16QAM	1	0	22.07	22.17	21.75
15	16QAM	1	38	22.12	21.94	21.51
15	16QAM	1	75	22.20	22.06	20.59
15	16QAM	36	0	21.13	21.00	20.96
15	16QAM	36	18	21.14	21.00	20.78
15	16QAM	36	75	21.18	21.03	20.34
15	16QAM	75	0	21.12	21.06	20.67
Channel				18650	18900	19150
Frequency(MHz)				1855	1880	1905
10	QPSK	1	0	22.94	22.93	22.89
10	QPSK	1	13	23.03	22.94	22.59
10	QPSK	1	24	23.00	22.74	21.58
10	QPSK	12	0	21.97	21.88	21.80
10	QPSK	12	6	21.96	21.88	21.64
10	QPSK	12	13	21.98	21.91	21.34
10	QPSK	25	0	22.02	21.91	21.61
10	16QAM	1	0	22.02	22.09	21.93
10	16QAM	1	13	22.13	22.02	21.67
10	16QAM	1	24	22.16	21.98	20.70
10	16QAM	12	0	21.11	21.00	20.98
10	16QAM	12	6	21.11	20.98	20.74
10	16QAM	12	13	21.14	20.97	20.44
10	16QAM	25	0	21.09	20.95	20.60

Channel				18625	18900	19175
Frequency(MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.06	23.01	22.92
5	QPSK	1	13	23.03	22.97	22.31
5	QPSK	1	24	23.02	23.01	22.21
5	QPSK	12	0	22.02	21.91	21.983
5	QPSK	12	6	22.02	21.91	21.52
5	QPSK	12	13	22.00	21.89	21.36
5	QPSK	25	0	21.93	21.85	21.53
5	16QAM	1	0	22.08	22.03	22.13
5	16QAM	1	13	22.03	21.96	21.68
5	16QAM	1	24	22.06	21.94	21.60
5	16QAM	12	0	21.13	21.03	20.77
5	16QAM	12	6	21.13	20.99	20.50
5	16QAM	12	13	21.12	20.97	20.36
5	16QAM	25	0	21.22	20.89	20.53
Channel				18615	18900	19185
Frequency(MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.93	22.82	22.88
3	QPSK	1	8	22.90	22.82	22.79
3	QPSK	1	14	22.89	22.88	22.54
3	QPSK	8	0	21.95	21.88	21.85
3	QPSK	8	4	21.97	21.86	21.90
3	QPSK	8	8	21.98	21.87	21.88
3	QPSK	15	0	21.94	21.84	21.81
3	16QAM	1	0	21.99	21.97	21.76
3	16QAM	1	8	22.02	21.93	21.77
3	16QAM	1	14	21.99	21.94	21.64
3	16QAM	8	0	21.14	21.01	20.89
3	16QAM	8	4	21.11	21.00	20.88
3	16QAM	8	8	21.14	20.98	20.90
3	16QAM	15	0	21.02	20.90	20.83
Channel				18607	18900	19193
Frequency(MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.90	22.78	22.87
1.4	QPSK	1	3	22.87	22.79	22.93
1.4	QPSK	1	5	22.92	22.83	22.94
1.4	QPSK	3	0	22.96	22.87	22.83
1.4	QPSK	3	1	22.90	22.81	22.74
1.4	QPSK	3	3	22.95	22.88	22.81
1.4	QPSK	6	0	21.84	21.75	21.75
1.4	16QAM	1	0	21.75	21.95	21.76
1.4	16QAM	1	3	21.73	21.93	21.71
1.4	16QAM	1	5	21.76	21.98	21.75
1.4	16QAM	3	0	21.91	21.85	21.67
1.4	16QAM	3	1	21.84	21.74	21.59
1.4	16QAM	3	3	21.89	21.80	21.66
1.4	16QAM	6	0	20.91	20.84	20.74

LTE Band 4

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				20050	20175	20300
Frequency(MHz)				1720	1732.5	1745
20	QPSK	1	0	22.15	22.39	22.70
20	QPSK	1	50	21.88	22.69	21.79
20	QPSK	1	99	22.72	22.47	21.42
20	QPSK	50	0	21.78	22.66	22.67
20	QPSK	50	24	21.86	22.68	21.91
20	QPSK	50	50	22.27	22.69	21.44
20	QPSK	100	0	22.05	22.65	21.15
20	16QAM	1	0	21.99	22.67	23.17
20	16QAM	1	50	21.84	23.02	22.24
20	16QAM	1	99	22.75	22.73	21.90
20	16QAM	50	0	21.76	22.66	22.60
20	16QAM	50	24	21.86	22.67	21.85
20	16QAM	50	50	22.29	22.65	21.40
20	16QAM	100	0	22.04	22.65	22.16
Channel				20025	20175	20325
Frequency(MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.14	22.65	22.72
15	QPSK	1	38	21.69	22.62	21.54
15	QPSK	1	75	22.17	22.72	21.47
15	QPSK	36	0	21.77	22.66	22.12
15	QPSK	36	18	21.77	22.69	21.63
15	QPSK	36	75	21.98	22.74	21.46
15	QPSK	75	0	21.87	22.69	21.82
15	16QAM	1	0	22.12	22.82	22.56
15	16QAM	1	38	21.83	22.81	21.43
15	16QAM	1	75	22.32	22.87	21.37
15	16QAM	36	0	21.78	22.67	22.09
15	16QAM	36	18	21.81	22.70	21.61
15	16QAM	36	75	22.04	22.72	21.46
15	16QAM	75	0	21.86	22.71	21.74
Channel				20000	20175	20350
Frequency(MHz)				1715	1732.5	1750
10	QPSK	1	0	22.10	22.62	21.85
10	QPSK	1	13	21.68	22.64	21.72
10	QPSK	1	24	21.80	22.64	21.51
10	QPSK	25	0	21.94	22.61	21.79
10	QPSK	25	6	21.83	22.63	21.73
10	QPSK	25	13	21.91	22.66	21.71
10	QPSK	50	0	21.92	22.65	21.75
10	16QAM	1	0	22.06	22.83	21.84
10	16QAM	1	13	21.77	22.82	21.77
10	16QAM	1	24	21.94	22.83	21.61
10	16QAM	25	0	21.93	22.66	21.83
10	16QAM	25	6	21.85	22.67	21.78
10	16QAM	25	13	21.94	22.69	21.77
10	16QAM	50	0	21.87	22.65	21.71

Channel				19975	20175	20375
Frequency(MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.19	22.70	22.54
5	QPSK	1	13	22.09	22.64	21.95
5	QPSK	1	24	22.21	22.67	22.33
5	QPSK	12	0	22.29	22.65	22.11
5	QPSK	12	6	22.17	22.65	21.99
5	QPSK	12	13	22.06	22.65	22.00
5	QPSK	25	0	22.20	22.60	22.02
5	16QAM	1	0	22.25	22.81	22.70
5	16QAM	1	13	22.10	22.77	22.22
5	16QAM	1	24	22.24	22.77	22.60
5	16QAM	12	0	22.30	22.71	22.02
5	16QAM	12	6	22.16	22.69	21.91
5	16QAM	12	13	22.07	22.69	21.93
5	16QAM	25	0	22.22	22.58	21.96
Channel				19965	20175	20385
Frequency(MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.06	22.58	22.70
3	QPSK	1	8	22.16	22.54	22.56
3	QPSK	1	14	22.29	22.55	22.53
3	QPSK	6	0	22.19	22.62	22.68
3	QPSK	6	4	22.29	22.61	22.66
3	QPSK	6	8	22.34	22.62	22.63
3	QPSK	15	0	22.23	22.57	22.64
3	16QAM	1	0	22.17	22.77	22.64
3	16QAM	1	8	22.26	22.72	22.54
3	16QAM	1	14	22.38	22.75	22.60
3	16QAM	6	0	22.29	22.75	22.65
3	16QAM	6	4	22.36	22.75	22.64
3	16QAM	6	8	22.43	22.74	22.67
3	16QAM	15	0	22.19	22.62	22.58
Channel				19957	20175	20393
Frequency(MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.07	22.54	22.60
1.4	QPSK	1	3	22.11	22.51	22.59
1.4	QPSK	1	5	22.15	22.55	22.54
1.4	QPSK	3	0	22.13	22.63	22.67
1.4	QPSK	3	1	22.09	22.55	22.58
1.4	QPSK	3	3	21.15	22.61	22.62
1.4	QPSK	6	0	22.13	22.52	22.53
1.4	16QAM	1	0	21.95	22.74	22.66
1.4	16QAM	1	3	21.99	22.73	22.60
1.4	16QAM	1	5	22.02	22.75	22.60
1.4	16QAM	3	0	22.01	22.62	22.54
1.4	16QAM	3	1	21.99	22.52	22.43
1.4	16QAM	3	3	22.04	22.55	22.48
1.4	16QAM	6	0	22.13	22.56	22.54

LTE Band 12

Channel				20800	21100	21400
Frequency(MHz)				2505	2535	2565
10	QPSK	1	0	23.35	23.36	23.41
10	QPSK	1	13	22.39	23.39	23.41
10	QPSK	1	24	22.42	23.42	23.49
10	QPSK	25	0	22.41	22.39	23.38
10	QPSK	25	6	22.40	22.43	22.43
10	QPSK	25	13	22.41	22.45	22.45
10	QPSK	50	0	22.42	22.42	22.46
10	16QAM	1	0	22.58	22.60	22.54
10	16QAM	1	13	22.58	22.57	22.60
10	16QAM	1	24	22.59	22.70	22.54
10	16QAM	25	0	21.47	21.40	21.43
10	16QAM	25	6	21.44	21.40	21.51
10	16QAM	25	13	21.46	21.44	21.57
10	16QAM	50	0	21.39	21.39	21.44
Channel				20775	21100	21425
Frequency(MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.36	23.50	23.53
5	QPSK	1	13	23.32	23.43	23.50
5	QPSK	1	24	23.36	23.47	23.52
5	QPSK	12	0	23.43	22.43	22.56
5	QPSK	12	6	22.39	22.43	22.54
5	QPSK	12	13	22.40	22.43	22.53
5	QPSK	25	0	22.36	22.35	22.50
5	16QAM	1	0	22.62	22.63	22.99
5	16QAM	1	13	22.60	22.55	22.95
5	16QAM	1	24	22.55	22.64	22.85
5	16QAM	12	0	21.52	21.47	21.56
5	16QAM	12	6	21.51	21.45	21.55
5	16QAM	12	13	21.47	21.48	21.51
5	16QAM	25	0	21.47	21.33	21.47
Channel				20775	21100	21425
Frequency(MHz)				2502.5	2535	2567.5
3	QPSK	1	0	23.27	23.36	22.41
3	QPSK	1	7	23.25	23.32	22.43
3	QPSK	1	14	23.25	23.35	22.45
3	QPSK	8	0	22.35	22.41	22.53
3	QPSK	8	4	22.40	22.42	22.51
3	QPSK	8	7	22.39	22.43	22.47
3	QPSK	15	0	22.37	22.40	22.48
3	16QAM	1	0	22.54	22.57	22.64
3	16QAM	1	7	22.52	22.50	22.63
3	16QAM	1	14	22.52	22.56	22.56
3	16QAM	8	0	21.57	21.52	21.62
3	16QAM	8	4	21.57	21.52	21.61
3	16QAM	8	7	21.58	21.53	21.58
3	16QAM	15	0	21.42	21.39	21.52

Channel				20775	21100	21425
Frequency(MHz)				2502.5	2535	2567.5
1.4	QPSK	1	0	23.40	23.43	23.50
1.4	QPSK	1	2	23.37	23.42	23.50
1.4	QPSK	1	5	23.40	23.46	23.49
1.4	QPSK	3	0	23.53	23.47	23.56
1.4	QPSK	3	1	23.45	23.41	23.47
1.4	QPSK	3	2	23.50	23.46	23.52
1.4	QPSK	6	0	22.39	22.43	22.46
1.4	16QAM	1	0	22.35	22.60	22.66
1.4	16QAM	1	2	22.34	22.60	22.60
1.4	16QAM	1	5	22.34	22.64	22.59
1.4	16QAM	3	0	22.49	22.44	22.48
1.4	16QAM	3	1	22.41	22.34	22.39
1.4	16QAM	3	2	22.47	22.38	22.43
1.4	16QAM	6	0	21.52	21.45	21.53

LTE Band 17

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				23780	23790	23800
Frequency(MHz)				709	710	711
10	QPSK	1	0	23.38	23.40	23.44
10	QPSK	1	13	23.47	23.43	23.41
10	QPSK	1	24	23.48	23.47	23.48
10	QPSK	25	0	22.41	22.45	22.48
10	QPSK	25	6	22.47	22.48	22.50
10	QPSK	25	13	22.51	22.50	22.50
10	QPSK	50	0	22.45	22.48	22.49
10	16QAM	1	0	22.55	22.59	22.58
10	16QAM	1	13	22.64	22.66	22.66
10	16QAM	1	24	22.70	22.69	22.57
10	16QAM	25	0	21.46	21.40	21.51
10	16QAM	25	6	21.49	21.48	21.57
10	16QAM	25	13	21.58	21.55	21.63
10	16QAM	50	0	21.41	21.45	21.46
Channel				23755	23790	23825
Frequency(MHz)				706.5	710	713.5
5	QPSK	1	0	23.38	23.54	23.50
5	QPSK	1	13	23.40	23.47	23.51
5	QPSK	1	24	23.48	23.49	23.47
5	QPSK	12	0	22.44	22.50	22.56
5	QPSK	12	6	22.45	22.52	22.57
5	QPSK	12	13	22.48	22.51	22.51
5	QPSK	25	0	22.44	22.44	22.49
5	16QAM	1	0	22.55	22.64	22.95
5	16QAM	1	13	22.57	22.67	22.95
5	16QAM	1	24	22.65	22.69	22.81
5	16QAM	12	0	21.50	21.54	21.55
5	16QAM	12	6	21.52	21.57	21.54
5	16QAM	12	13	21.53	21.56	21.50
5	16QAM	25	0	21.50	21.43	21.46

Turn Power

Mode	GSM850(AVG)	GSM1900(AVG)
GSM/PCS	30.5±1dBm	27.0±1dBm
GPRS (1 Slot)	30.5±1dBm	27.0±1dBm
GPRS (2 Slot)	30.0±1dBm	26.1±1dBm
GPRS (3 Slot)	28.5±1dBm	25.0±1dBm
GPRS (4 Slot)	28.0±1dBm	24.2±1dBm
EDGE (1 Slot)	30.5±1dBm	27.0±1dBm
EDGE (2 Slot)	30.0±1dBm	26.0±1dBm
EDGE (3 Slot)	28.5±1dBm	24.5±1dBm
EDGE (4 Slot)	28.0±1dBm	24.0±1dBm

Mode	WCDMA Band V(AVG)	WCDMA Band II(AVG)
RMC	20.5±1dBm	20.6±1dBm
HSDPA Subtest-1	20.1±1dBm	20.1±1dBm
HSDPA Subtest-2	20.0±1dBm	19.6±1dBm
HSDPA Subtest-3	19.1±1dBm	19.1±1dBm
HSDPA Subtest-4	19.0±1dBm	19.0±1dBm
HSUPA Subtest-1	20.0±1dBm	19.6±1dBm
HSUPA Subtest-2	19.2±1dBm	19.3±1dBm
HSUPA Subtest-3	19.0±1dBm	19.0±1dBm
HSUPA Subtest-4	18.1±1dBm	18.2±1dBm
HSUPA Subtest-5	18.0.±1dBm	18.0±1dBm

Mode	WIFI
IEEE 802.11b	12.±1dBm
IEEE 802.11g	10±1dBm
IEEE 802.11n(HT 20)	10±1dBm
IEEE 802.11n(HT 40)	9±1dBm

Mode	BT		
	Low	Mid	High
GFSK	-2±1dBm	0±1dBm	-1±1dBm
π/4-DQPSK	-3±1dBm	0±1dBm	-2±1dBm
8DPSK	-3±1dBm	0±1dBm	-2±1dBm

Mode	BT 4.0		
	Low	Mid	High
GFSK	-9±1dBm	-7±1dBm	-8±1dBm

LTE

BW[MHz]	RB Size	Mode	Band 2	Band 4	Band 12	Band 17
1.4	1	QPSK	22±1dBm	22±1dBm	23±1dBm	N/A
1.4	3		22±1dBm	22±1dBm	23±1dBm	N/A
1.4	6		21±1dBm	22±1dBm	22±1dBm	N/A
1.4	1	16-QAM	21±1dBm	22±1dBm	22±1dBm	N/A
1.4	3		21±1dBm	22±1dBm	22±1dBm	N/A
1.4	6		20±1dBm	22±1dBm	21±1dBm	N/A
3	1	QPSK	22±1dBm	22±1dBm	23±1dBm	N/A
3	6		21±1dBm	22±1dBm	22±1dBm	N/A
3	15		21±1dBm	22±1dBm	22±1dBm	N/A
3	1	16-QAM	22±1dBm	22±1dBm	22±1dBm	N/A
3	6		21±1dBm	22±1dBm	21±1dBm	N/A
3	15		21±1dBm	22±1dBm	21±1dBm	N/A
5	1	QPSK	23±1dBm	22±1dBm	23±1dBm	23±1dBm
5	12		22±1dBm	22±1dBm	23±1dBm	22±1dBm
5	25		21±1dBm	22±1dBm	22±1dBm	22±1dBm
5	1	16-QAM	22±1dBm	22±1dBm	22±1dBm	22±1dBm
5	12		21±1dBm	22±1dBm	21±1dBm	21±1dBm
5	25		21±1dBm	22±1dBm	21±1dBm	21±1dBm
10	1	QPSK	22.4±1dBm	22±dBm	22.5±1dBm	22.5±1dBm
10	25		21±1dBm	22±dBm	22.4±1dBm	21.6±1dBm
10	50		22±1dBm	22±dBm	21.5±1dBm	21.5±1dBm
10	1	16-QAM	22±1dBm	22±1dBm	22±1dBm	22±1dBm
10	25		21±1dBm	22±1dBm	21±1dBm	21±1dBm
10	50		21±1dBm	22±1dBm	21±1dBm	21±1dBm
15	1	QPSK	22.2±1dBm	22±1dBm	N/A	N/A
15	36		22±1dBm	22±1dBm	N/A	N/A
15	75		22±1dBm	22±1dBm	N/A	N/A
15	1	16-QAM	22±1dBm	22±1dBm	N/A	N/A
15	36		21±1dBm	22±1dBm	N/A	N/A
15	75		21±1dBm	22±1dBm	N/A	N/A
20	1	QPSK	22.2±1dBm	21.8±1dBm	N/A	N/A
20	50		21.2±1dBm	21.7±1dBm	N/A	N/A
20	100		21.1±1dBm	21.7±1dBm	N/A	N/A
20	1	16-QAM	22±1dBm	22.3±1dBm	N/A	N/A
20	50		21±1dBm	22±1dBm	N/A	N/A
20	100		21±1dBm	22±1dBm	N/A	N/A

11. EUT And Test Setup Photo

11.1 EUT Photo

Front side

Back side

Top side

Bottom side

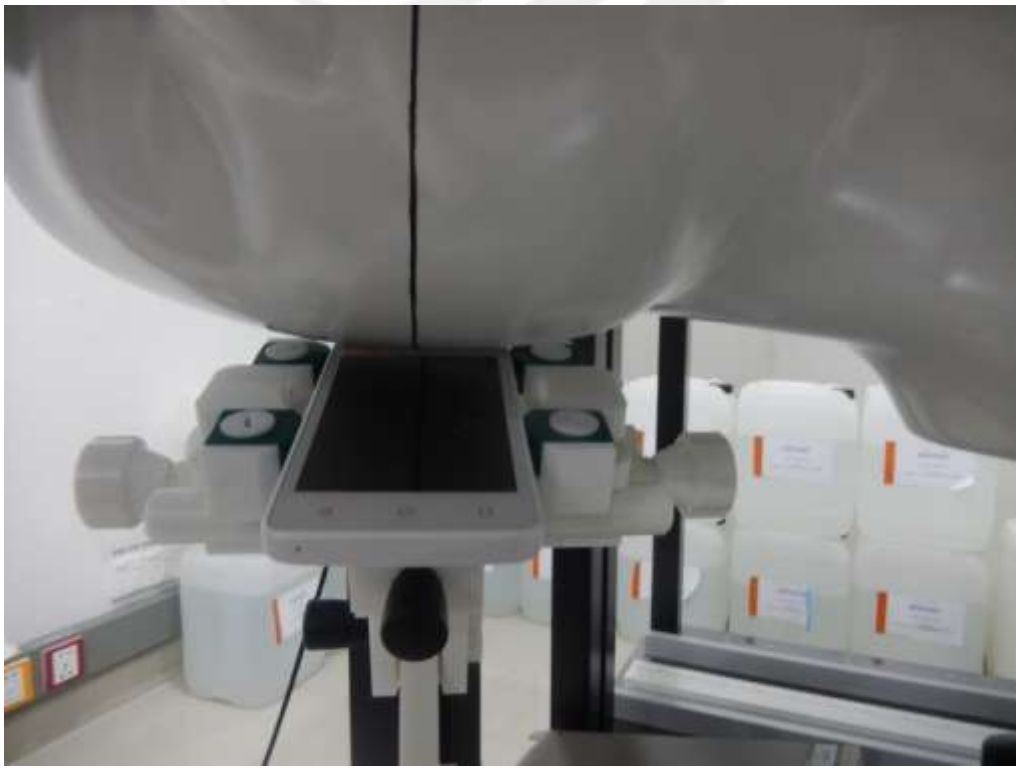
Left side

Right side

11.2 Setup Photo

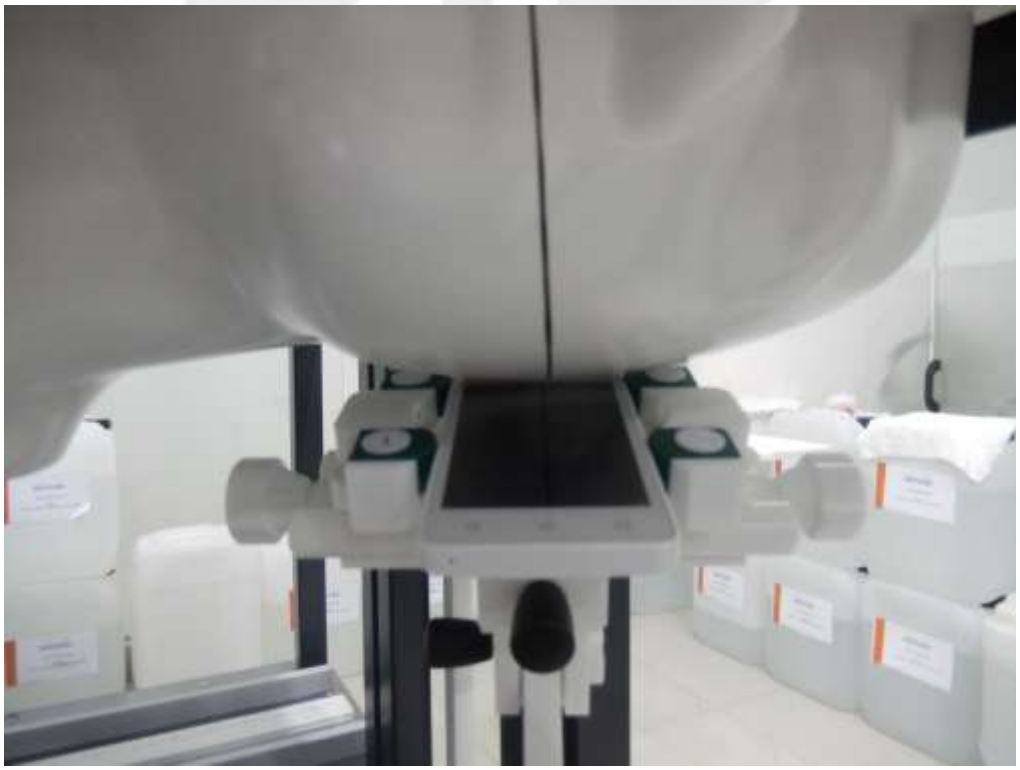
Right Touch

Right Tilt

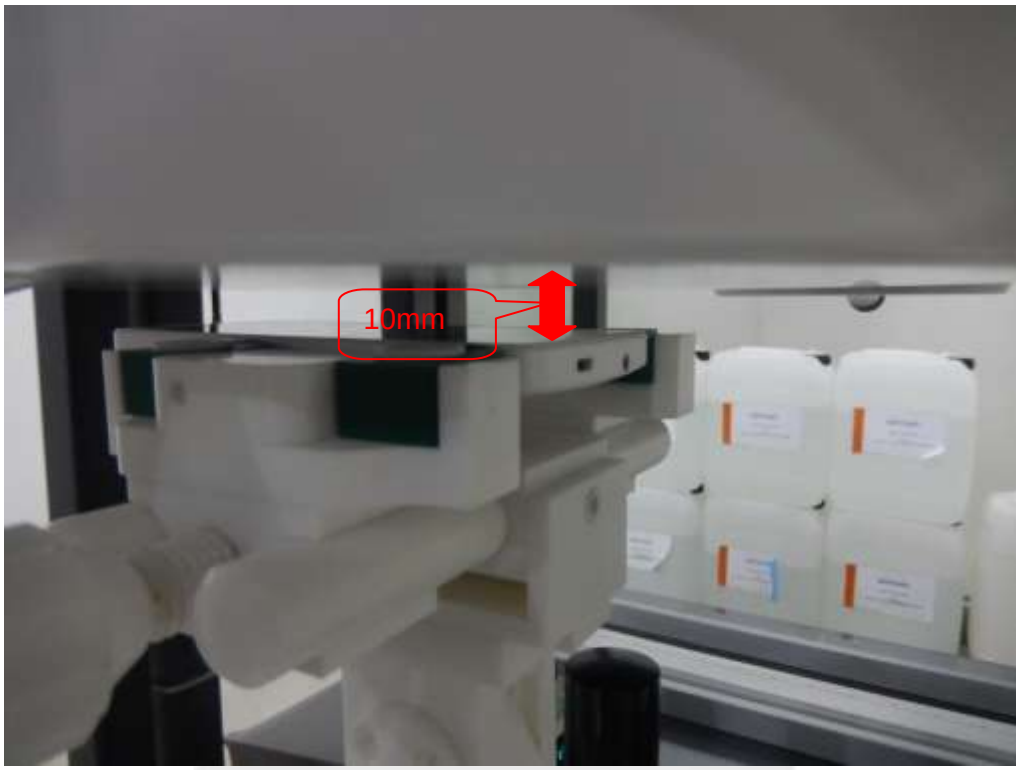


Left Touch

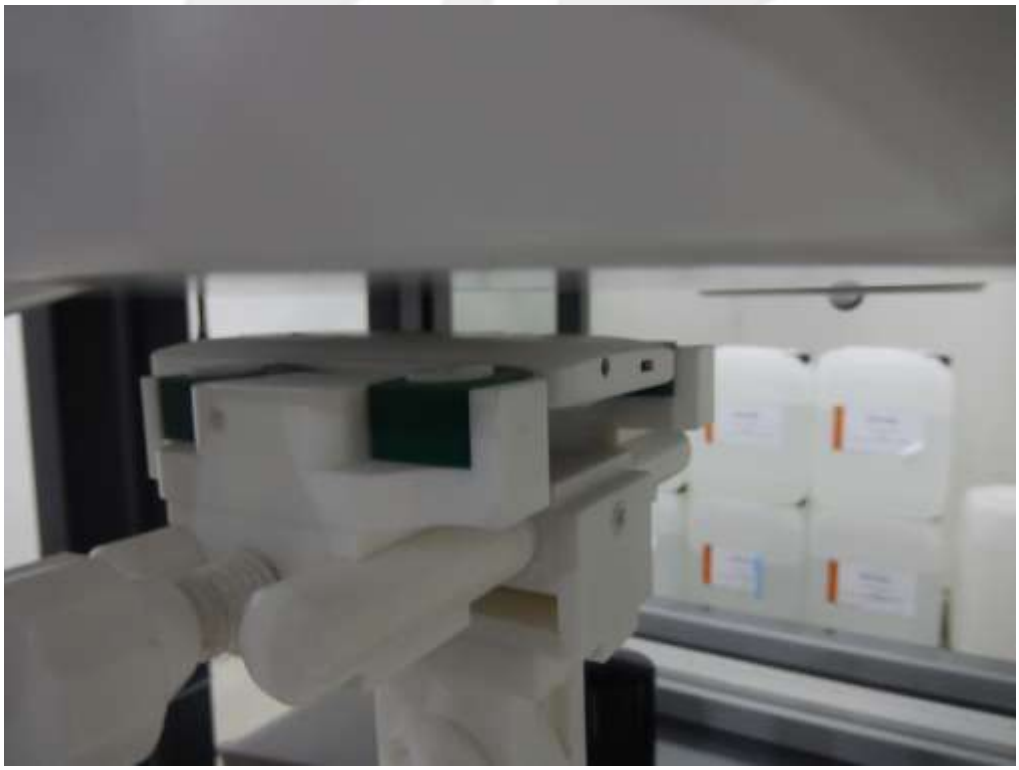
Left Tilt



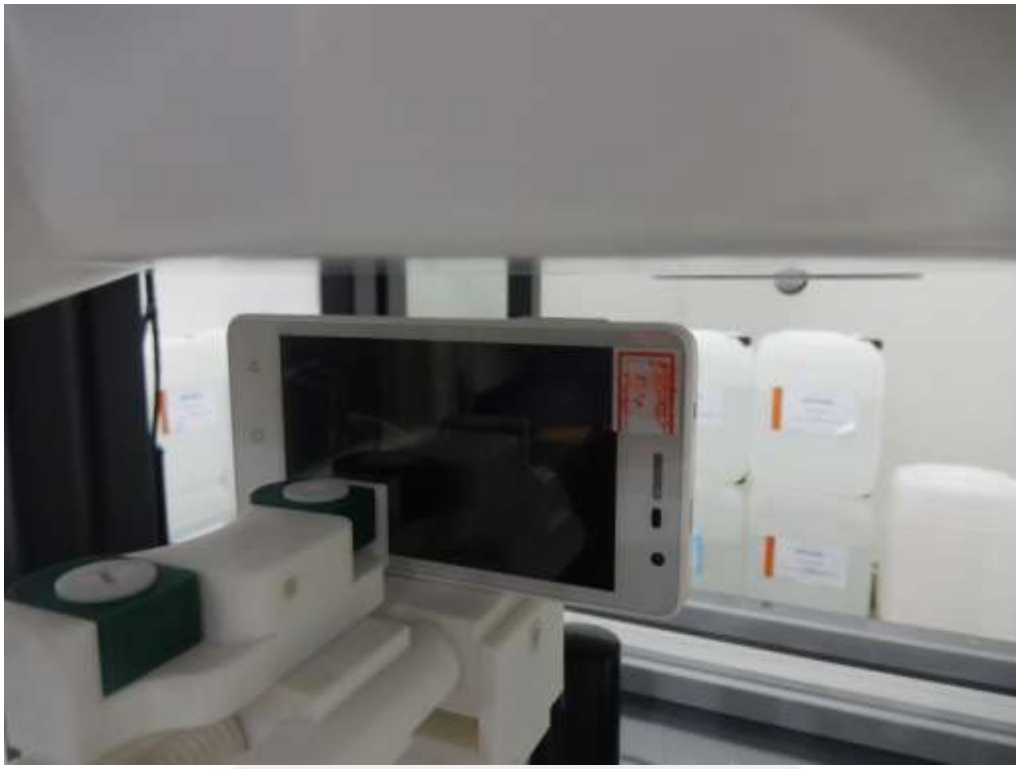
Body Front side



Body Back side



Body left side

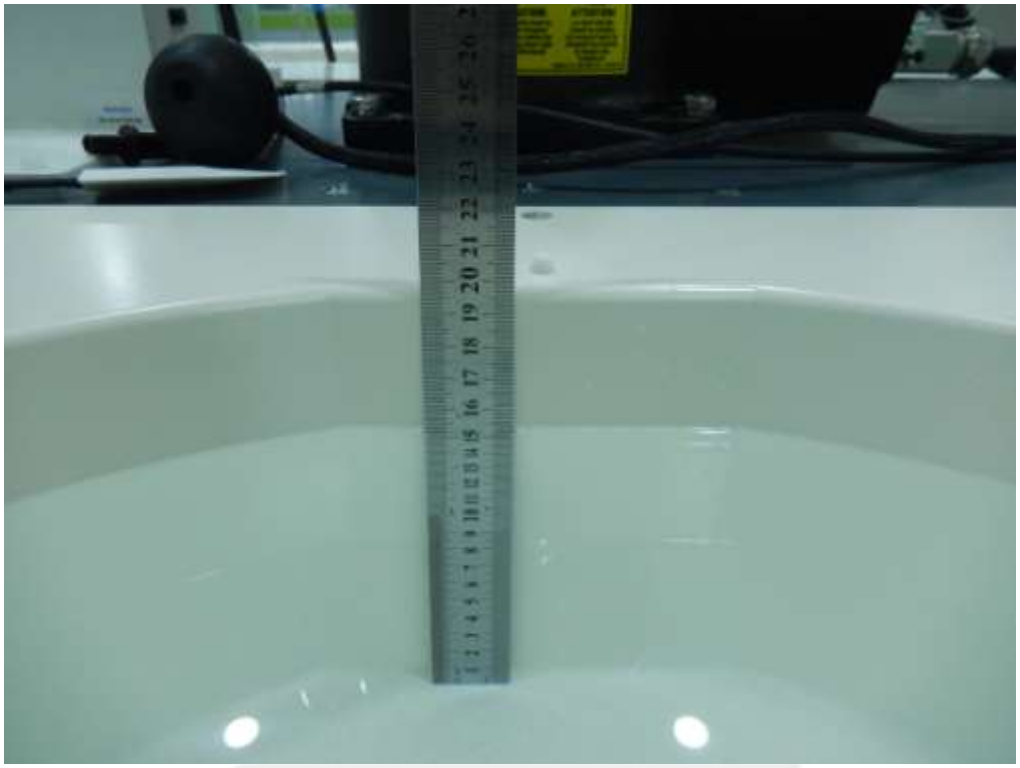


Body right side

Body top side

Body Bottom side

Liquid depth (15 cm)



12. SAR Result Summary

12.1 Head SAR

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	Voice	Right Cheek	CH 128	0.106	-2.36	32	31.99	**0.106**	1
		Right Tilt	CH 128	0.081	-2.73	32	31.99	0.081	2
		Left Cheek	CH 128	0.098	-1.69	32	31.99	0.098	3
		Left Tilt	CH 128	0.069	3.14	32	31.99	0.069	4
GSM1900	Voice	Right Cheek	CH 512	0.200	-1.24	28	27.92	**0.204**	10
		Right Tilt	CH 512	0.038	-2.11	28	27.92	0.039	11
		Left Cheek	CH 512	0.117	-2.34	28	27.92	0.119	12
		Left Tilt	CH 512	0.059	-2.59	28	27.92	0.060	13
WCDMA II	RMC	Right Cheek	CH 9263	0.316	-3.38	21.6	21.51	**0.323**	19
		Right Tilt	CH 9263	0.051	-2.30	21.6	21.51	0.052	20
		Left Cheek	CH 9263	0.142	-2.53	21.6	21.51	0.145	21
		Left Tilt	CH 9263	0.061	-2.96	21.6	21.51	0.062	22
WCDMA V	RMC	Right Cheek	CH4233	0.077	3.68	21.5	21.46	0.078	28
		Right Tilt	CH4233	0.067	-2.35	21.5	21.46	0.068	29
		Left Cheek	CH4233	0.080	-2.67	21.5	21.46	**0.081**	30
		Left Tilt	CH4233	0.044	2.85	21.5	21.46	0.044	31

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
WIFI	DATA	Right Cheek	CH 11	0.665	-4.70	13	12.5	100	0.746	37
		Right Tilt	CH 11	0.252	-1.04	13	12.5	100	0.283	38
		Left Cheek	CH 11	0.293	-0.91	13	12.5	100	0.329	39
		Left Tilt	CH 11	0.116	-3.91	13	12.5	100	0.130	40

Band	BW (MHz)	Modulation	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	50	Right Cheek	18700	0.258	-1.06	23.2	23.10	**0.264**	45
			50	50	Right Cheek	18700	0.246	-1.87	22.2	22.12	0.251	/
			1	50	Right Tilt	18700	0.039	-2.58	23.2	23.10	**0.040**	46
			50	50	Right Tilt	18700	0.038	-0.55	22.2	22.12	0.039	/
			1	50	Left Cheek	18700	0.126	-2.60	23.2	23.10	**0.129**	47
			50	50	Left Cheek	18700	0.112	-1.30	22.2	22.12	0.114	/
			1	50	Left Tilt	18700	0.040	-2.59	23.2	23.10	**0.041**	48
			50	50	Left Tilt	18700	0.031	-0.47	22.2	22.12	0.032	/
LTE Band 4	20M	QPSK	1	99	Right Cheek	20050	0.153	-2.60	22.8	22.72	**0.156**	54
			50	55	Right Cheek	20175	0.141	-0.55	22.7	22.69	0.141	/
			1	99	Right Tilt	20050	0.025	-2.23	22.8	22.72	**0.025**	55
			50	55	Right Tilt	20175	0.020	0.37	22.7	22.69	0.020	/
			1	99	Left Cheek	20050	0.059	2.80	22.8	22.72	**0.060**	56
			50	55	Left Cheek	20175	0.062	2.13	22.7	22.69	0.047	/
			1	99	Left Tilt	20050	0.025	-2.64	22.8	22.72	**0.025**	57
			50	55	Left Tilt	20175	0.020	-1.16	22.7	22.69	0.020	/
LTE Band 12	10M	QPSK	1	24	Right Cheek	21400	0.007	0.44	23.5	23.49	**0.007**	63
			25	0	Right Cheek	21400	0.005	-1.05	23.4	23.38	0.005	/
			1	24	Right Tilt	21400	0.005	-0.29	23.5	23.49	**0.005**	64
			25	0	Right Tilt	21400	0.004	0.13	23.4	23.38	0.004	/
			1	24	Left Cheek	21400	0.006	-0.21	23.5	23.49	**0.006**	65
			25	0	Left Cheek	21400	0.005	-0.63	23.4	23.38	0.005	/
			1	24	Left Tilt	21400	0.004	2.27	23.5	23.49	**0.004**	66
			25	0	Left Tilt	21400	0.003	-0.04	23.4	23.38	0.003	/
LTE Band 17	10M	QPSK	1	24	Right Cheek	23780	0.071	-1.38	23.5	23.48	**0.071**	72
			25	13	Right Cheek	23780	0.060	0.56	22.6	22.51	0.061	/
			1	24	Right Tilt	23780	0.039	-3.29	23.5	23.48	**0.039**	73
			25	13	Right Tilt	23780	0.032	-0.43	22.6	22.51	0.033	/
			1	24	Left Cheek	23780	0.102	-2.65	23.5	23.48	**0.102**	74
			25	13	Left Cheek	23780	0.095	-1.03	22.6	22.51	0.097	/
			1	24	Left Tilt	23780	0.030	-3.22	23.5	23.48	**0.030**	75
			25	13	Left Tilt	23780	0.025	3.69	22.6	22.51	0.026	/

12.2 Body SAR And Hotspot

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	GPRS Data-4 Slot (hotspot)	Front side	CH 190	0.300	0.84	29	28.70	**0.321**	5
		Back side	CH 190	0.257	2.77	29	28.70	0.275	6
		Left side	CH 190	0.127	-0.68	29	28.70	0.136	7
		Right side	CH 190	0.165	-0.24	29	28.70	0.177	8
		Bottom side	CH 190	0.050	-4.87	29	28.70	0.054	9
GSM1900	GPRS Data-4 Slot (hotspot)	Front side	CH 512	0.146	-0.09	25.2	25.15	0.148	14
		Back side	CH 512	0.412	2.86	25.2	25.15	**0.417**	15
		Left side	CH 512	0.097	-3.01	25.2	25.15	0.098	16
		Right side	CH 512	0.119	-0.59	25.2	25.15	0.120	17
		Bottom side	CH 512	0.248	-1.78	25.2	25.15	0.251	18
WCDMA II	RMC (body-worn and hotspot)	Front side	CH 9263	0.168	-0.54	21.6	21.51	0.172	23
		Back side	CH9263	0.295	-0.31	21.6	21.51	**0.301**	24
		Left side	CH 9263	0.051	0.11	21.6	21.51	0.052	25
		Right side	CH 9263	0.079	3.06	21.6	21.51	0.081	26
		Bottom side	CH 9263	0.185	-0.19	21.6	21.51	0.189	27
WCDMA V	RMC (body-worn and hotspot)	Front side	CH4233	0.071	-3.00	21.5	21.46	**0.072**	32
		Back side	CH4233	0.068	-2.29	21.5	21.46	0.069	33
		Left side	CH4233	0.026	1.46	21.5	21.46	0.026	34
		Right side	CH4233	0.033	-0.49	21.5	21.46	0.033	35
		Bottom side	CH4233	0.006	2.35	21.5	21.46	0.006	36

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
WIFI	802.11b	Front side	CH 11	0.077	-3.82	13	12.5	100	0.086	41
		Back side	CH 11	0.179	-0.14	13	12.5	100	0.201	42
		Left side	CH 11	0.218	-1.32	13	12.5	100	0.245	43
		Bottom side	CH 11	0.028	-2.45	13	12.5	100	0.031	44

Note:

1. Two card slot can't work at the same time.
2. The test separation of all above table is 10mm.
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 **0.471** W/Kg for Head and **0.155** W/Kg for Body/Hotspot)

Band	BW (MHz)	Modulation	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	50	Front	18700	0.095	-1.60	23.2	23.10	**0.097**	49
			50	50	Front	18700	0.092	0.99	22.2	22.12	0.094	/
			1	50	Back	18700	0.197	-3.65	23.2	23.10	**0.202**	50
			50	50	Back	18700	0.190	0.43	22.2	22.12	0.194	/
			1	50	Left Side	18700	0.079	2.13	23.2	23.10	**0.081**	51
			50	50	Left Side	18700	0.063	-1.71	22.2	22.12	0.064	/
			1	50	Right Side	18700	0.130	-3.46	23.2	23.10	**0.133**	52
			50	50	Right Side	18700	0.108	1.97	22.2	22.12	0.110	/
			1	50	Bottom Side	18700	0.172	-2.39	23.2	23.10	**0.176**	53
			50	50	Bottom Side	18700	0.153	0.33	22.2	22.12	0.156	/
LTE Band 4	20M	QPSK	1	99	Front	20050	0.094	-3.26	22.8	22.72	**0.096**	58
			50	55	Front	20175	0.076	-1.02	22.7	22.69	0.076	/
			1	99	Back	20050	0.144	-1.84	22.8	22.72	**0.147**	59
			50	55	Back	20175	0.142	2.31	22.7	22.69	0.142	/
			1	99	Left Side	20050	0.051	0.28	22.8	22.72	**0.052**	60
			50	55	Left Side	20175	0.053	-2.17	22.7	22.69	0.043	/
			1	99	Right Side	20050	0.063	-4.72	22.8	22.72	**0.064**	61
			50	55	Right Side	20175	0.060	-0.63	22.7	22.69	0.060	/
			1	99	Bottom Side	20050	0.108	-1.77	22.8	22.72	**0.110**	62
			50	55	Bottom Side	20175	0.109	-0.63	22.7	22.69	0.109	/
LTE Band 12	10M	QPSK	1	24	Front	21400	0.004	2.40	23.5	23.49	**0.004**	67
			25	0	Front	21400	0.003	-1.30	23.4	23.38	0.003	/
			1	24	Back	21400	0.016	-1.45	23.5	23.49	**0.016**	68
			25	0	Back	21400	0.011	-0.67	23.4	23.38	0.011	/
			1	24	Left Side	21400	0.005	0.50	23.5	23.49	**0.005**	69
			25	0	Left Side	21400	0.004	-0.04	23.4	23.38	0.004	/
			1	24	Right Side	21400	0.012	-0.02	23.5	23.49	**0.012**	70
			25	0	Right Side	21400	0.008	-4.04	23.4	23.38	0.008	/
			1	24	Bottom Side	21400	0.002	2.03	23.5	23.49	**0.002**	71
			25	0	Bottom Side	21400	0.001	4.41	23.4	23.38	0.001	/
LTE Band 17	10M	QPSK	1	24	Front	23780	0.120	-2.83	23.5	23.48	**0.121**	76
			25	13	Front	23780	0.101	-2.54	22.6	22.51	0.103	/
			1	24	Back	23780	0.185	2.19	23.5	23.48	**0.186**	77
			25	13	Back	23780	0.170	0.41	22.6	22.51	0.174	/
			1	24	Left Side	23780	0.098	2.65	23.5	23.48	**0.098**	78
			25	13	Left Side	23780	0.085	-2.35	22.6	22.51	0.087	/
			1	24	Right Side	23780	0.122	2.03	23.5	23.48	**0.123**	79
			25	13	Right Side	23780	0.103	-0.37	22.6	22.51	0.105	/
			1	24	Bottom Side	23780	0.042	2.48	23.5	23.48	**0.042**	80
			25	13	Bottom Side	23780	0.037	0.02	22.6	22.51	0.038	/

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous state
Head	1. GSM + WIFI
	2. GSM + Bluetooth
	3. WCDMA + WIFI
	4. WCDMA + Bluetooth
	5. LTE + WIFI
	6. LTE + Bluetooth
Body	1. GSM + WIFI
	2. GSM + Bluetooth
	3. WCDMA + WIFI
	4. WCDMA + Bluetooth
	5. LTE + WIFI
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WIFI 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 v05, 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 Average Power		Antenna to user(mm)	Frequency(GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	1	1.26	5	2.441	0.052
	Body			10	2.441	0.026

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + WIFI	Head	GSM Voice	0.204	0.950
		WIFI	0.746	
	Body	GSM Data	0.417	0.662
		WIFI	0.245	
GSM + Bluetooth	Head	GSM Voice	0.204	0.256
		Bluetooth	0.052	
	Body	GSM Data	0.417	0.443
		Bluetooth	0.026	
WCDMA + WIFI	Head	WCDMA RMC	0.323	1.069
		WIFI	0.746	
	Body	WCDMA RMC	0.301	0.546
		WIFI	0.245	
WCDMA + Bluetooth	Head	WCDMA RMC	0.323	0.375
		Bluetooth	0.052	
	Body	WCDMA RMC	0.301	0.327
		Bluetooth	0.026	
LTE + WIFI	Head	LTE RMC	0.264	1.010
		WIFI	0.746	
	Body	LTE RMC	0.202	0.447
		WIFI	0.245	
LTE + Bluetooth	Head	LTE RMC	0.264	0.316
		Bluetooth	0.052	
	Body	LTE RMC	0.202	0.228
		Bluetooth	0.026	

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
750MHz Dipole	SATIMO	SID750	SN 30/14 DIP0G750-331	2014.09.01	2017.08.31
835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	2014.09.01	2017.08.31
1800MHz Dipole	SATIMO	SID1800	SN 30/14 DIP1G800-329	2014.09.01	2017.08.31
1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	2014.09.01	2017.08.31
2450MHzDipole	SATIMO	SID2450	SN 30/14 DIP2G450-335	2014.09.01	2017.08.31
E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	2015.09.01	2016.08.31
Antenna	SATIMO	ANTA3	SN 07/13 ZNTA52	2014.09.01	2017.08.31
Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2014.09.01	2017.08.31
Phantom1	SATIMO	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	SATIMO	SAM	SN 32/14 SAM116	N/A	N/A
SAR TEST BENCH	SATIMO	GSM and WCDMA mobile phone POSITIONNING SYSTEM	SN 32/14 MSH97	N/A	N/A
SAR TEST BENCH	SATIMO	LAPTOP POSITIONNING SYSTEM	SN 32/14 LSH29	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 32/14 OCPG52	2015.09.01	2016.08.31
Multi Meter	Keithley	Multi Meter 2000	4050073	2015.11.20	2016.11.19
Signal Generator	Agilent	N5182A	MY50140530	2015.11.18	2016.11.17
Power Meter	R&S	NRP	100510	2015.10.25	2016.10.24
Power Sensor	R&S	NRP-Z11	101919	2015.10.24	2016.10.23
Power Sensor	Anritsu	MA2411B	1027253	2015.10.10	2016.10.09
Power Sensor	R&S	NRP-Z21	103971	2015.12.12	2016.12.11
Network Analyzer	Agilent	5071C	EMY46103472	2015.12.12	2016.12.11
Attenuator 1	PE	PE7005-10	N/A	2015.10.25	2016.10.24
Attenuator 2	PE	PE7005-3	N/A	2015.10.24	2016.10.23
Attenuator 3	Woken	WK0602-XX	N/A	2015.12.12	2016.12.11
Dual Directional Coupler	Agilent	778D	50422	2015.11.18	2016.11.17

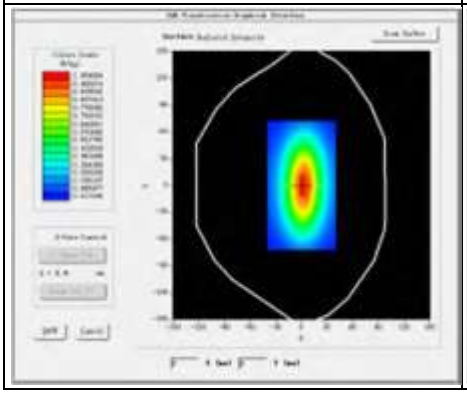
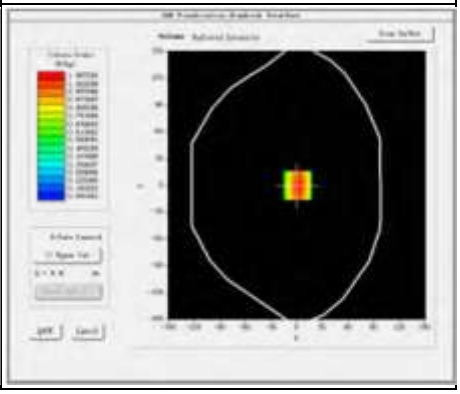
Appendix A. System Validation Plots

System Performance Check Data (750MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 13 minutes 25 seconds

Experimental conditions

Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity (real part)	41.2
Relative permittivity	20.8
Conductivity (S/m)	0.91
Power drift (%)	2.35
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.53
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

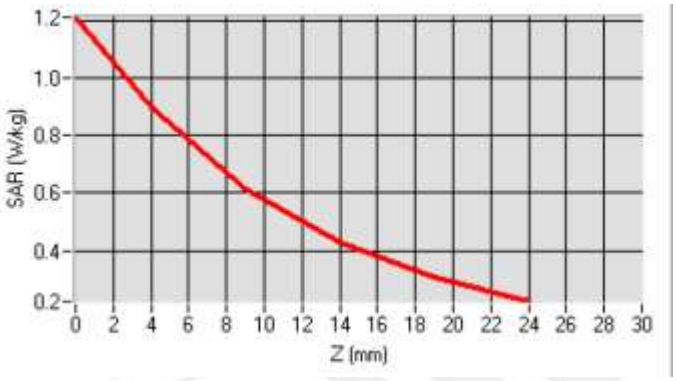
Maximum location: X=1.00, Y=0.00

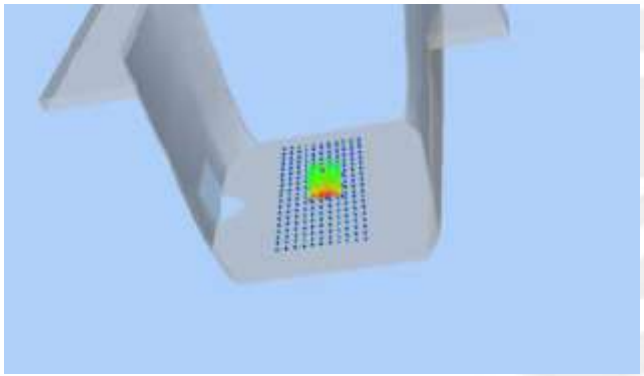
SAR Peak: 1.30 W/kg

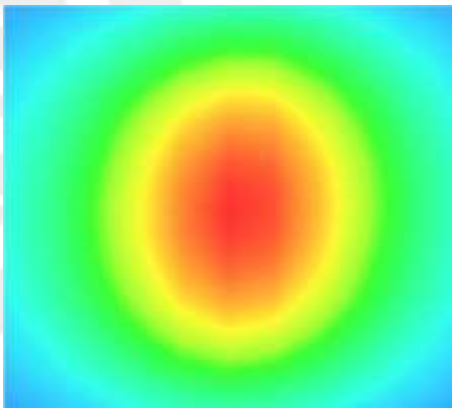
SAR 10g (W/Kg)	0.544560
SAR 1g (W/Kg)	0.838123

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.30322	0.86595	0.56114	0.49582	0.31352	0.24266	0.10359





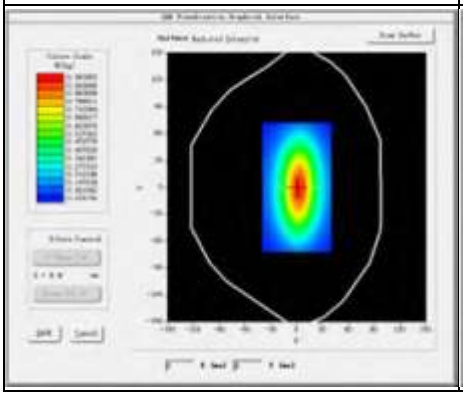
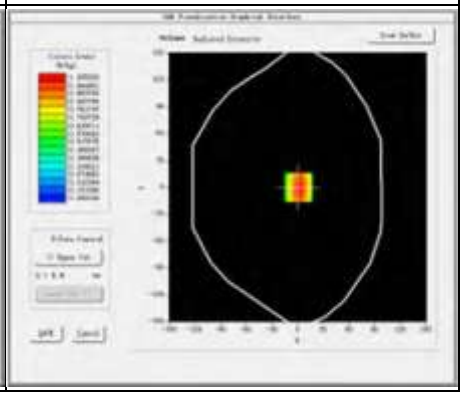


System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 14 minutes 12 seconds

Experimental conditions.

Probe	
Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity (real part)	55.26
Relative permittivity	23.251187
Conductivity (S/m)	0.91
Power drift (%)	1.020000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.70
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

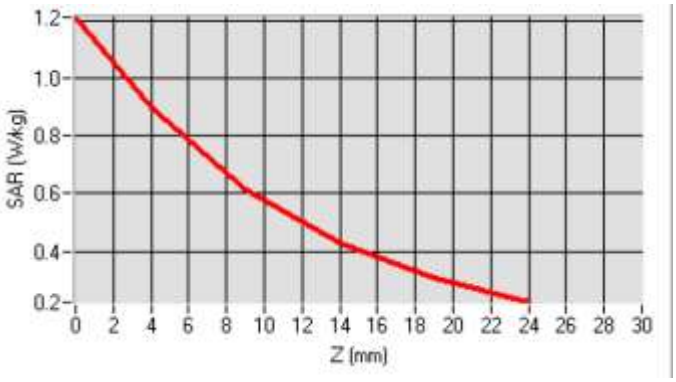
Maximum location: X=1.00, Y=0.00

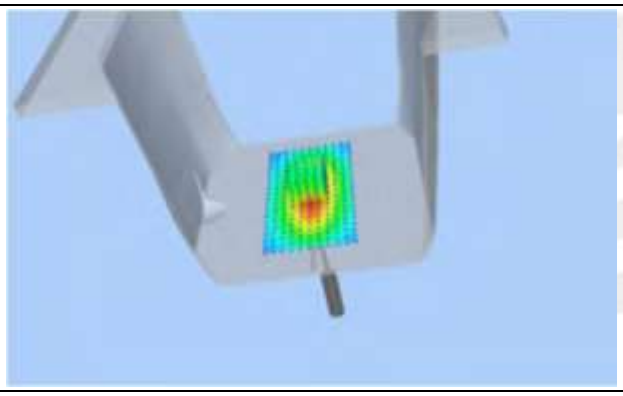
SAR Peak: 1.30 W/kg

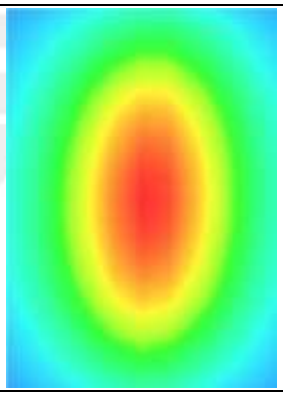
SAR 10g (W/Kg)	0.576142
SAR 1g (W/Kg)	0.856325

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.30254	0.85658	0.56325	0.49362	0.31412	0.24366	0.10355







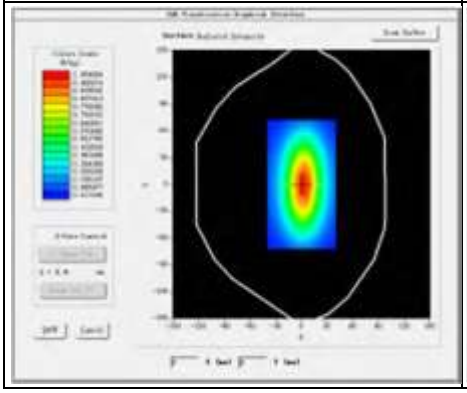
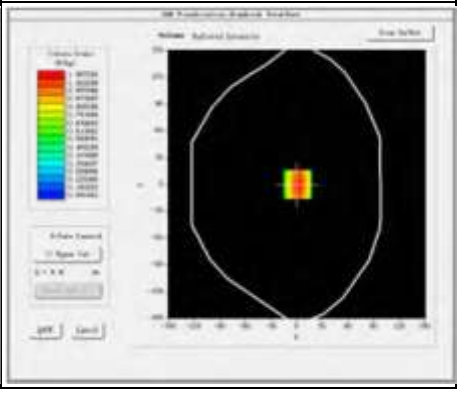
System Performance Check Data (835MHz Head)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 13 minutes 27 seconds

Experimental conditions

Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	41.00
Relative permittivity	18.72
Conductivity (S/m)	0.86
Power drift (%)	0.45
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.83
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

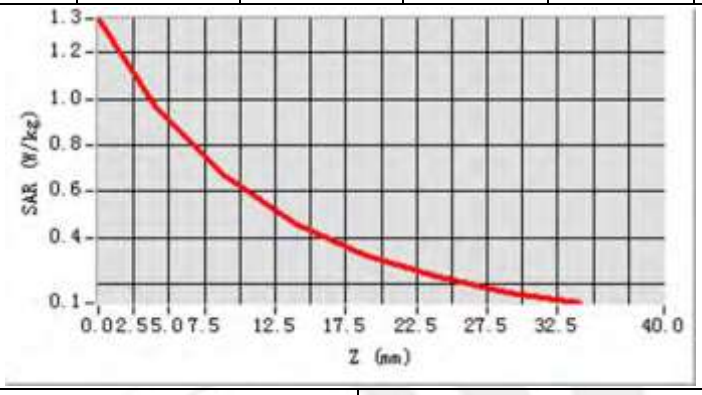
Maximum location: X=1.00, Y=0.00

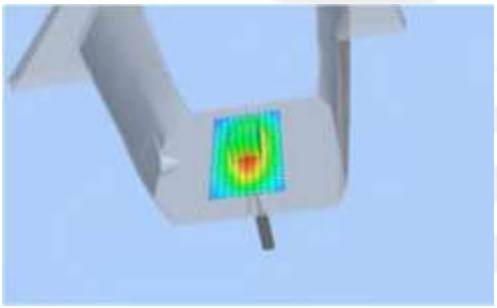
SAR Peak: 1.39 W/kg

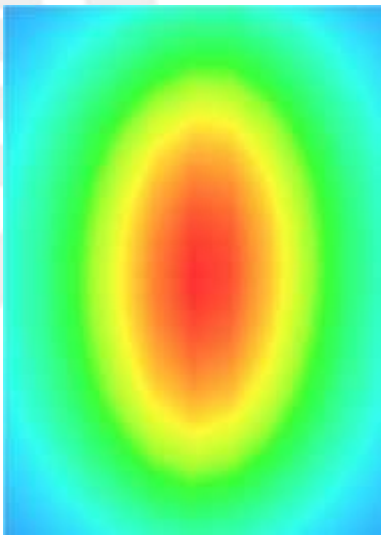
SAR 10g (W/Kg)	0.625623
SAR 1g (W/Kg)	0.937481

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.3472	0.97891	0.66265	0.5042	0.3512	0.2505	0.11794





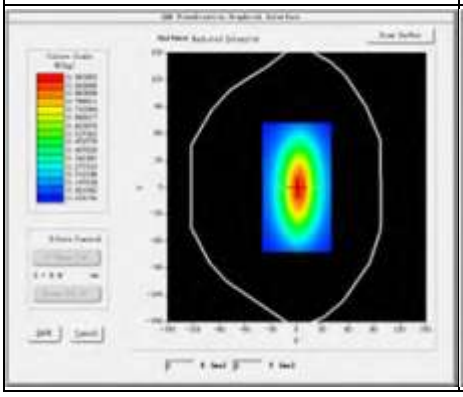
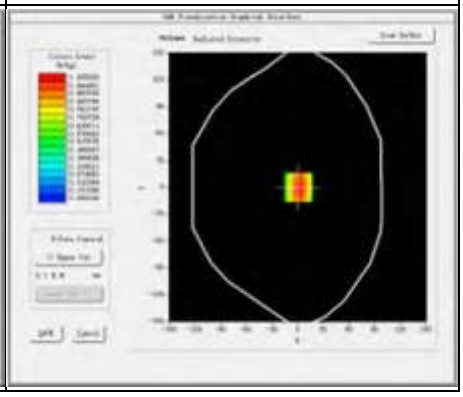


System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 14 minutes 13 seconds

Experimental conditions.

Probe	
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	54.70
Relative permittivity	21.408187
Conductivity (S/m)	0.98
Power drift (%)	0.090000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	5.02
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

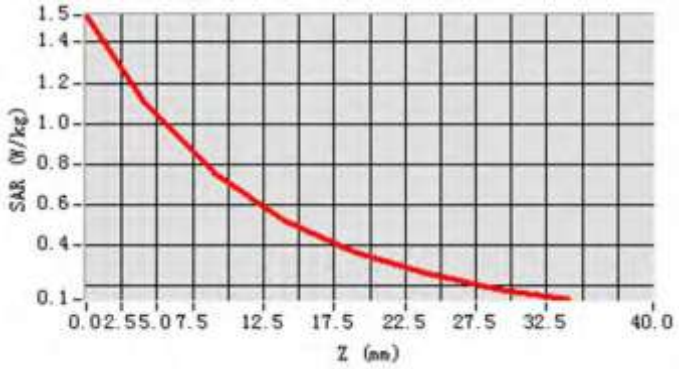
Maximum location: X=1.00, Y=0.00

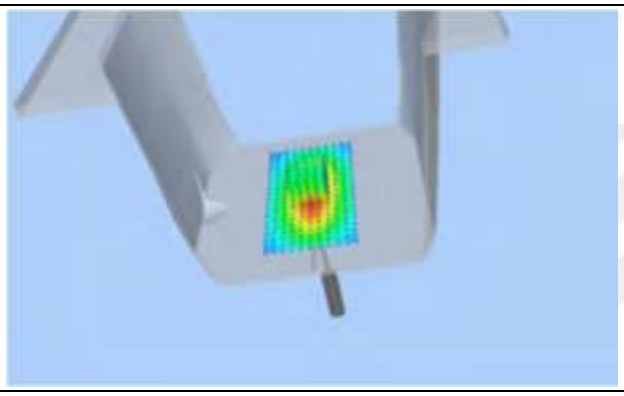
SAR Peak: 1.50 W/kg

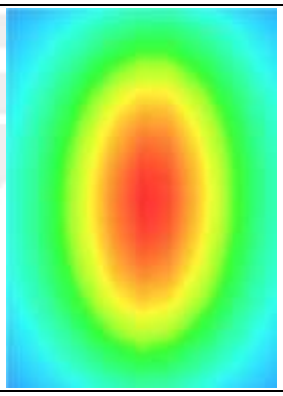
SAR 10g (W/Kg)	0.603221
SAR 1g (W/Kg)	0.946658

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.3725	1.0058	0.6838	0.4755	0.3314	0.2365	0.1688





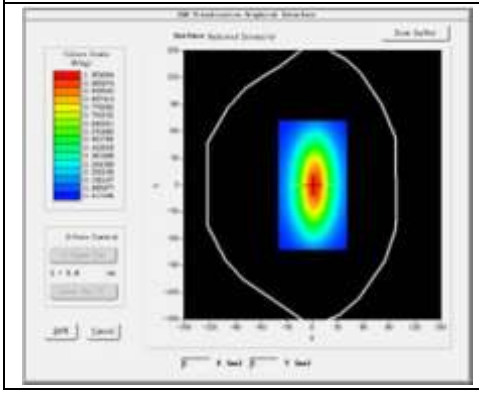
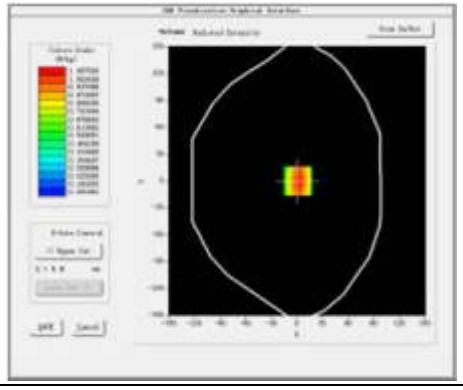


System Performance Check Data(1800MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity (real part)	40.20
Relative permittivity	14.096855
Conductivity (S/m)	1.308491
Power drift (%)	-1.390000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1

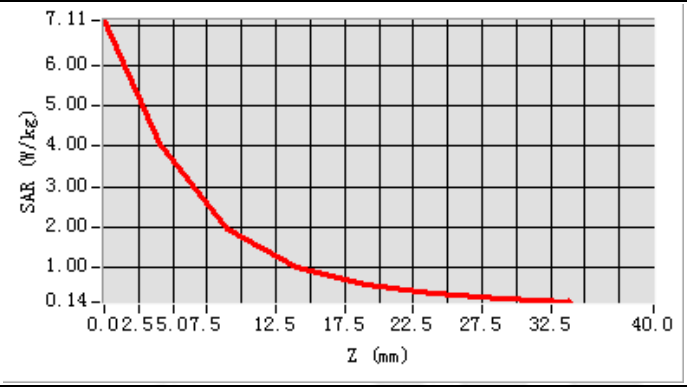
SURFACE SAR	VOLUME SAR
	

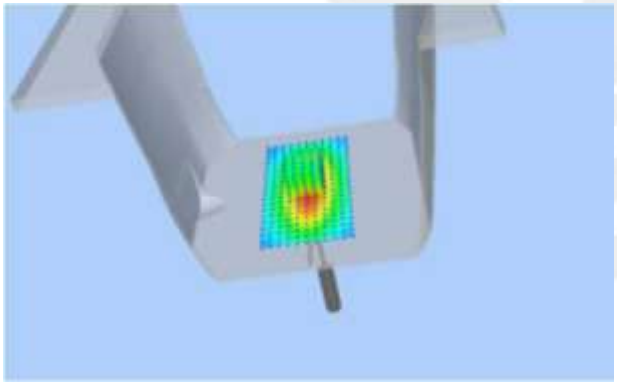
Maximum location: X=7.00, Y=-1.00

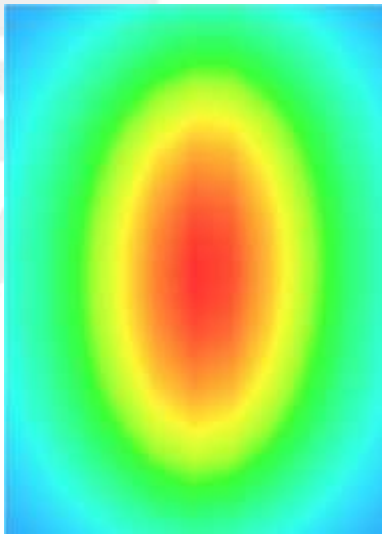
SAR 10g (W/Kg)	1.980247
SAR 1g (W/Kg)	3.760154

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	7.1146	4.0782	1.9352	1.0130	0.5642	0.3334	0.2079





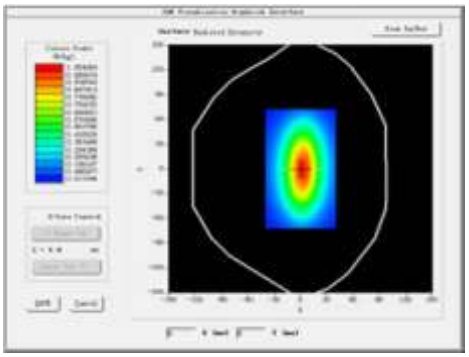
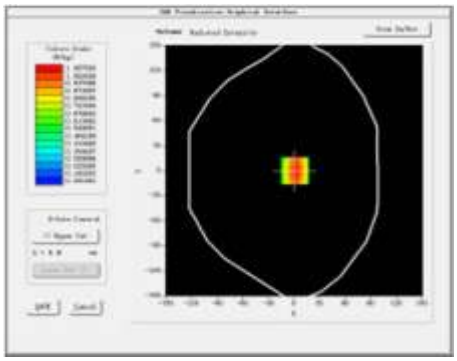


System Performance Check Data(1800MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity (real part)	52.6
Relative permittivity	15.08356
Conductivity (S/m)	1.376582
Power drift (%)	2.351
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.34
Crest factor:	1:1

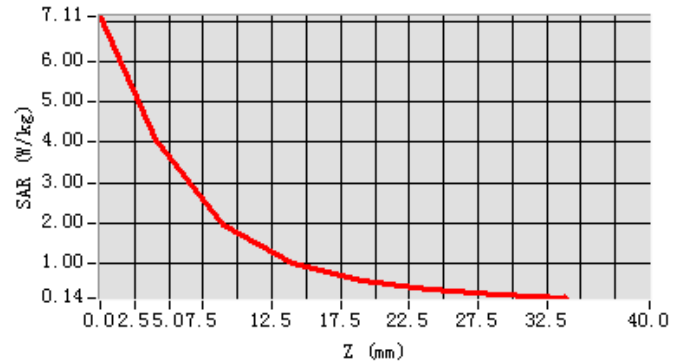
SURFACE SAR	VOLUME SAR
	

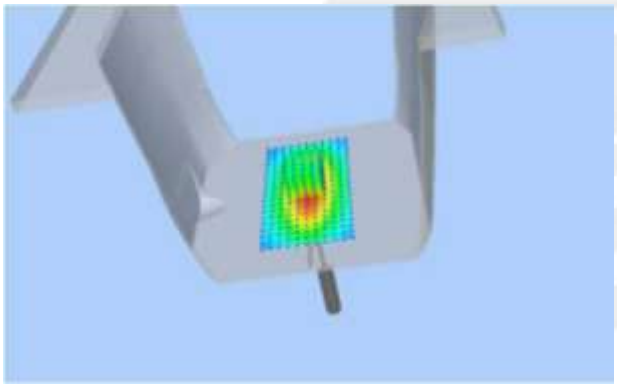
Maximum location: X=6.00, Y=2.00

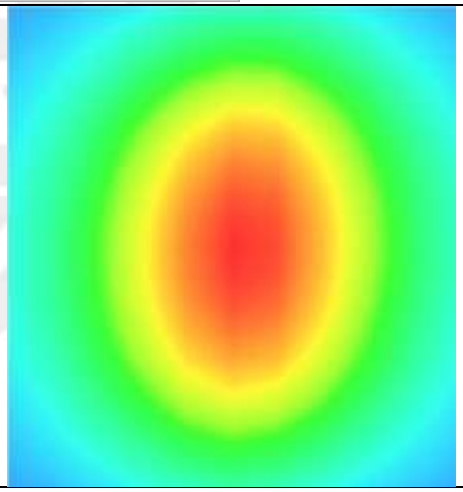
SAR 10g (W/Kg)	1.99658
SAR 1g (W/Kg)	3.88325

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	7.2356	4.1258	1.9683	1.1253	0.6535	0.3652	0.2658





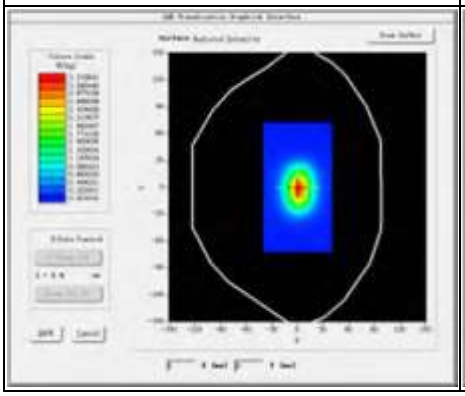
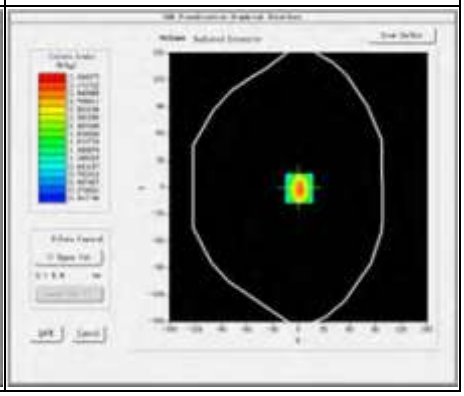


System Performance Check Data (1900MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 14 minutes 12 seconds

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity (real part)	39.50
Relative permittivity	13.26
Conductivity (S/m)	1.43
Power drift (%)	0.47
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 17/14 EP221
ConvF:	4.71
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

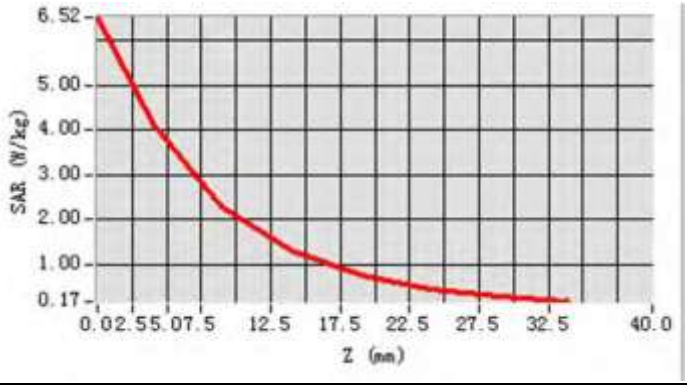
Maximum location: X=1.00, Y=0.00

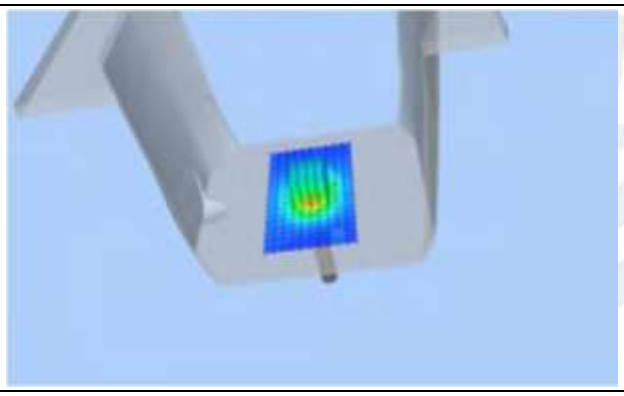
SAR Peak: 5.41 W/kg

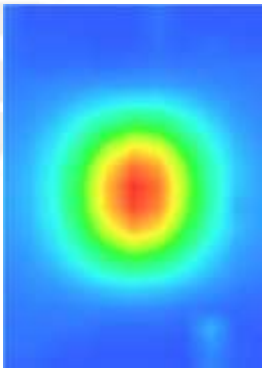
SAR 10g (W/Kg)	1.967525
SAR 1g (W/Kg)	3.856235

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	6.5296	4.1946	2.3311	1.3187	0.5733	0.3288	0.1617





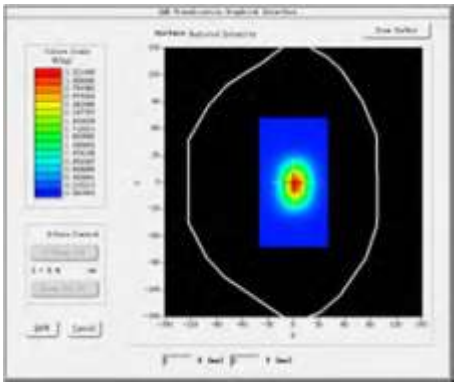
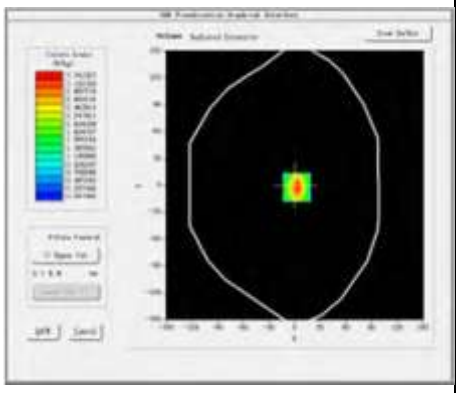


System Performance Check Data (1900MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity (real part)	52.31
Relative permittivity	12.87531
Conductivity (S/m)	1.5
Power drift (%)	0.37
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 17/14 EP221
ConvF:	4.85
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

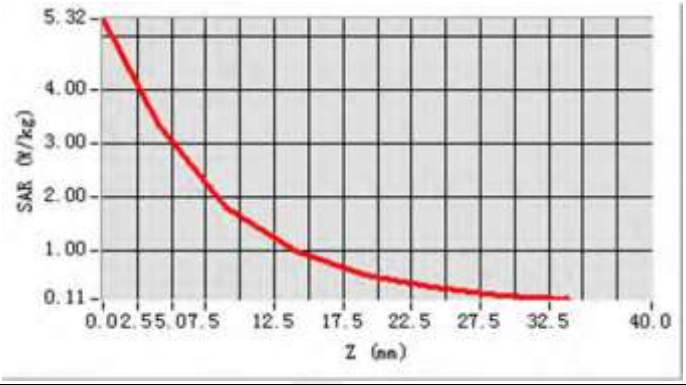
Maximum location: X=2.00, Y=2.00

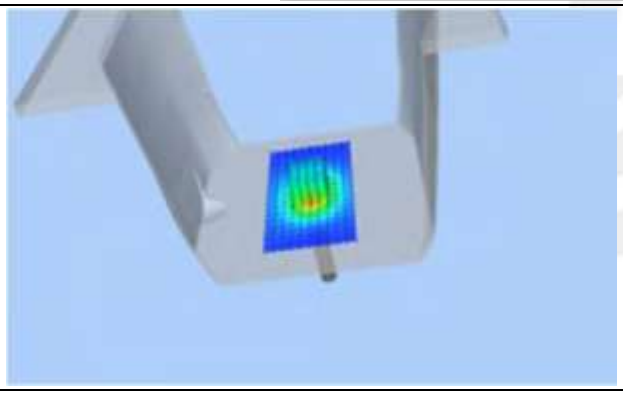
SAR Peak: 5.27 W/kg

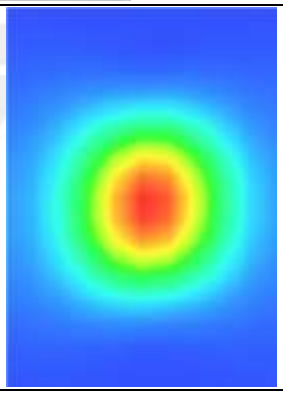
SAR 10g (W/Kg)	2.265354
SAR 1g (W/Kg)	3.986583

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	5.3196	3.3419	1.8167	1.0186	0.5752	0.3285	0.1898





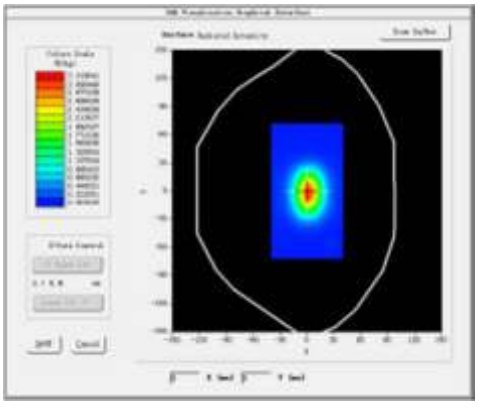
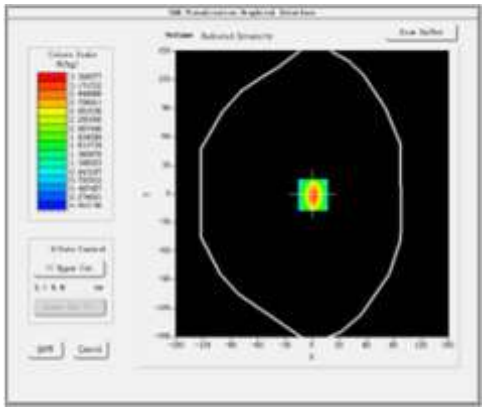


System Performance Check Data (2450MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 13 minutes 51seconds

Experimental conditions.

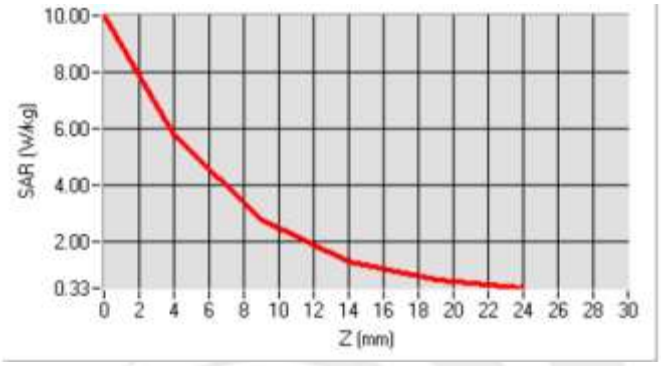
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	39.176002
Relative permittivity	12.930000
Conductivity (S/m)	1.88
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.11
Crest factor:	1:1

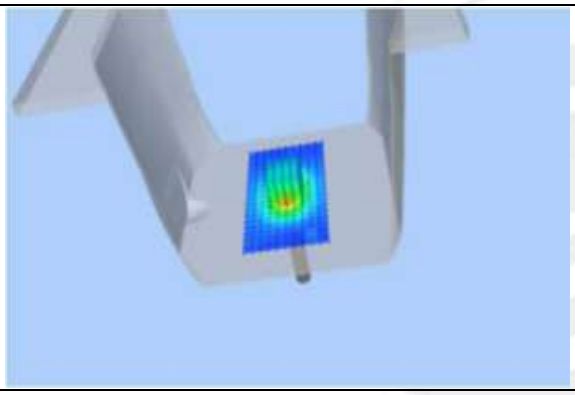
SURFACE SAR	VOLUME SAR
	

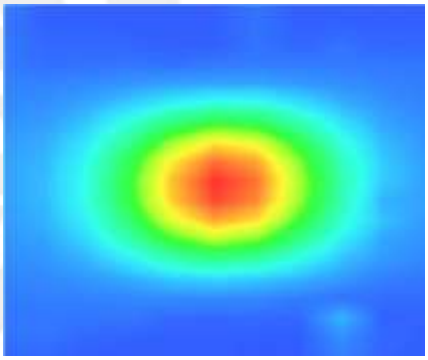
Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	2.574384
SAR 1g (W/Kg)	5.392438

Z Axis Scan





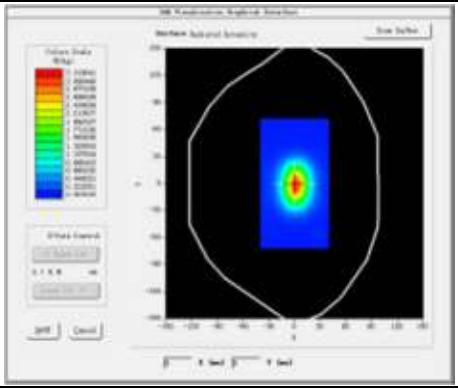
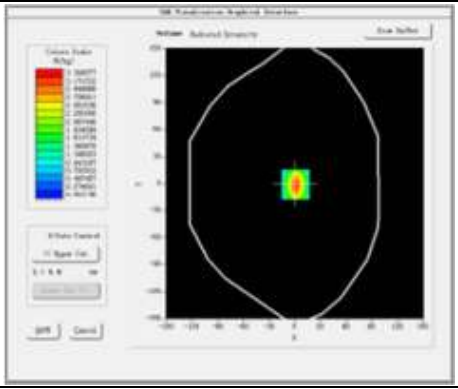


System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2016-01-13
Measurement duration: 14 minutes 23 seconds

Experimental conditions.

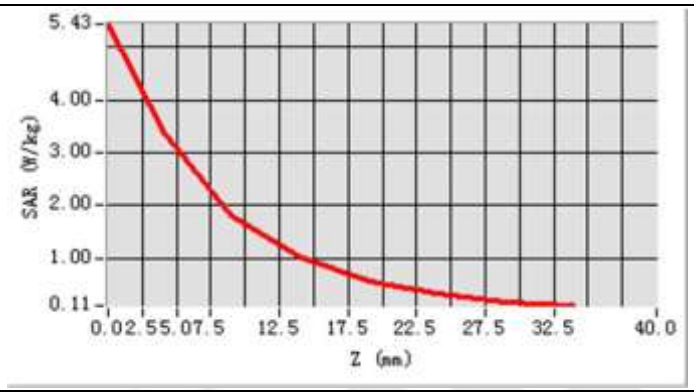
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	52.316002
Relative permittivity	12.930000
Conductivity (S/m)	1.92
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1

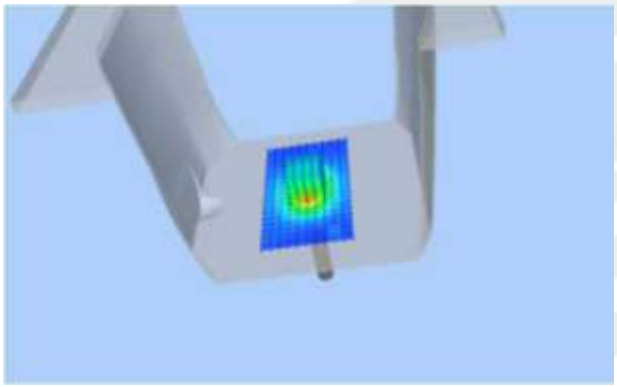
SURFACE SAR	VOLUME SAR
	

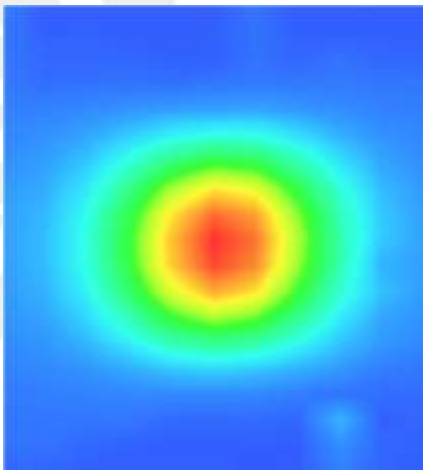
Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.368758
SAR 1g (W/Kg)	5.163872

Z Axis Scan







Appendix B. SAR Test Plots

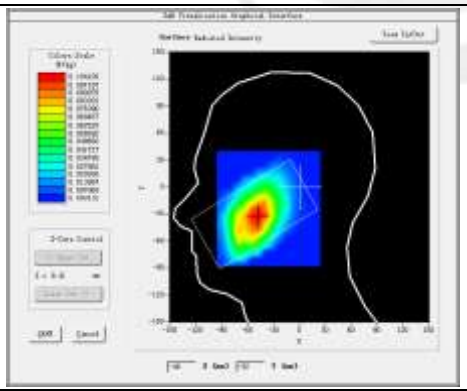
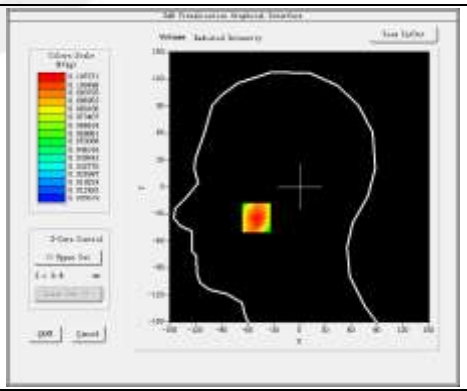
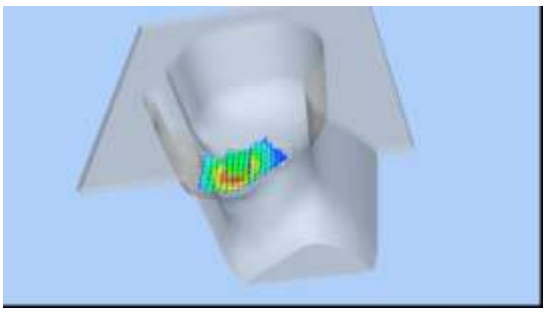
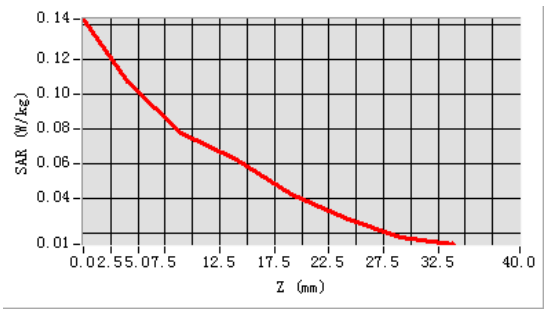
Plot 1: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-2.36

Maximum location: X=-50.00, Y=-34.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.070537
SAR 1g (W/Kg)	0.106097

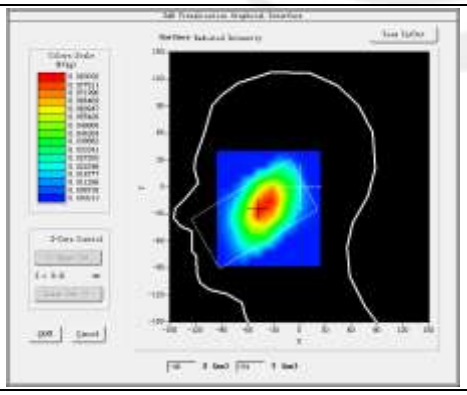
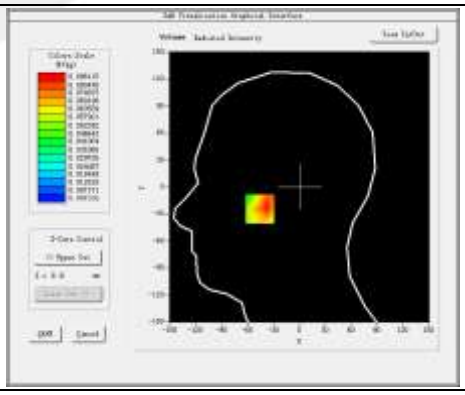
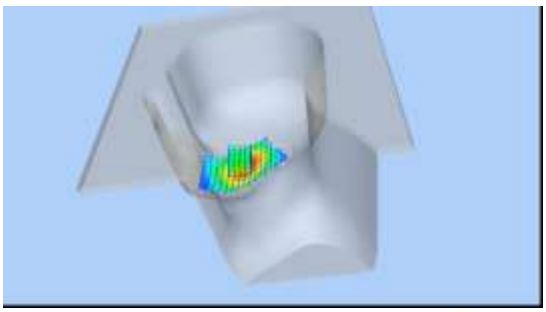
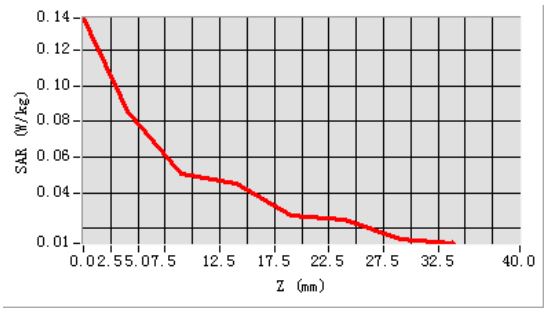
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 2: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mmdy=8mmdz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-2.73

Maximum location: X=-46.00, Y=-24.00
SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.054568
SAR 1g (W/Kg)	0.081113

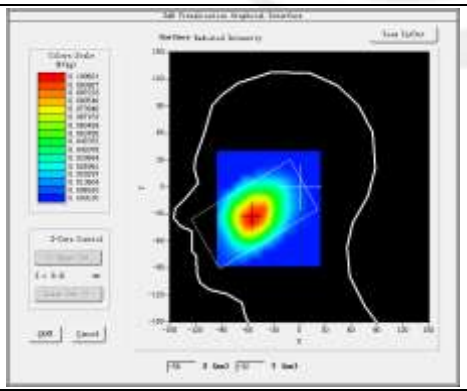
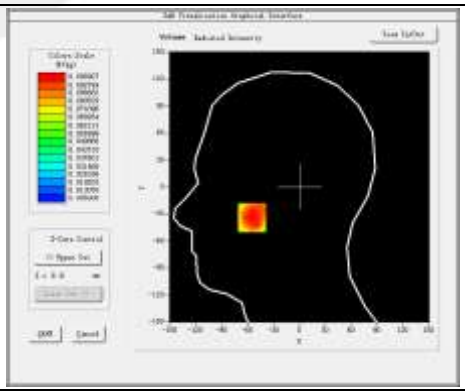
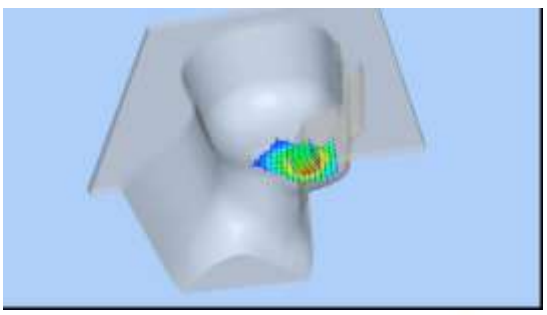
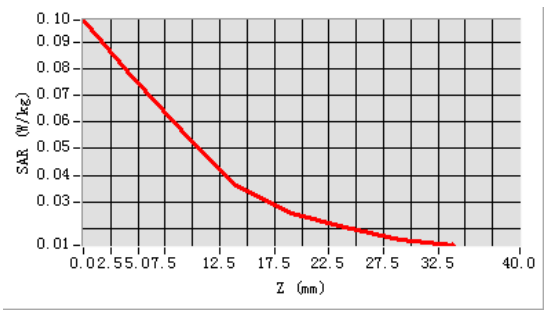
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 3: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-1.69

Maximum location: X=-55.00, Y=-34.00
SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.068039
SAR 1g (W/Kg)	0.097548

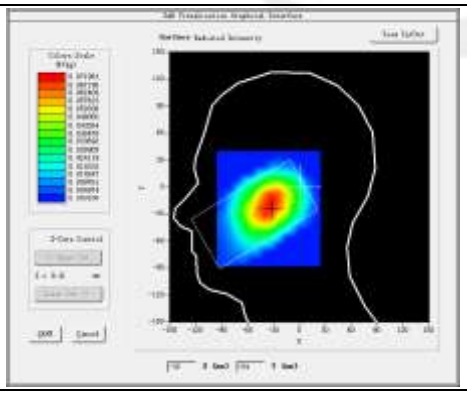
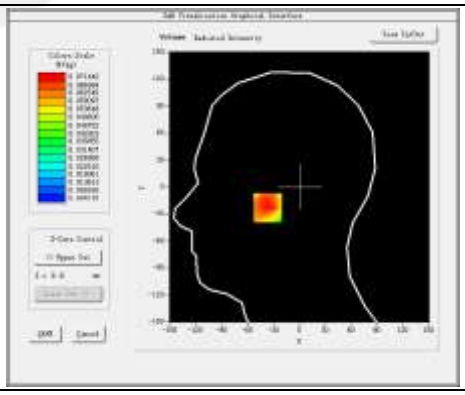
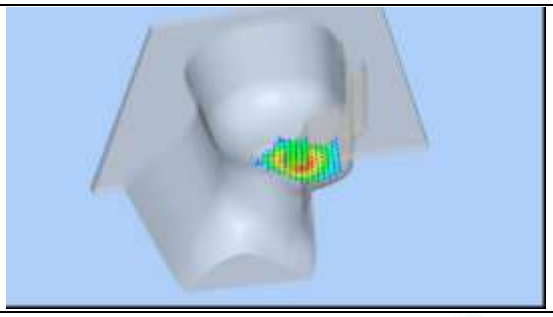
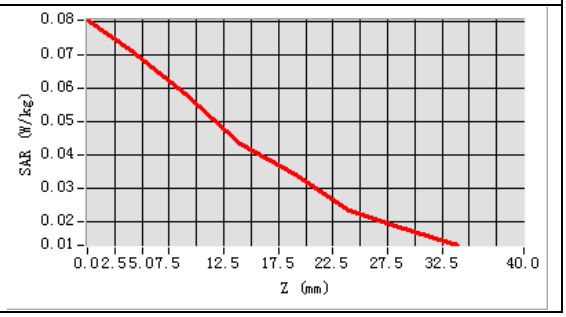
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 4: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	3.14

Maximum location: X=-33.00, Y=-23.00
SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.049204
SAR 1g (W/Kg)	0.068706

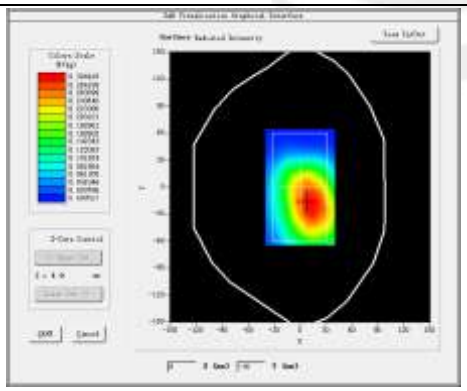
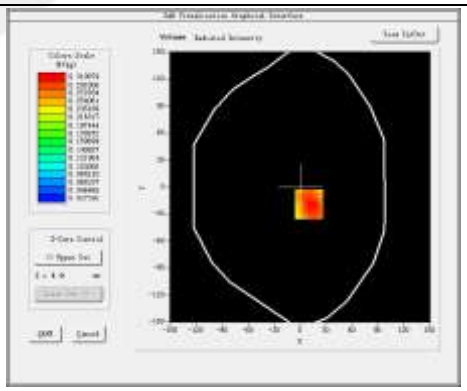
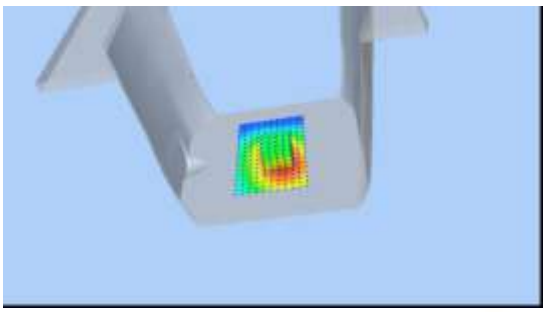
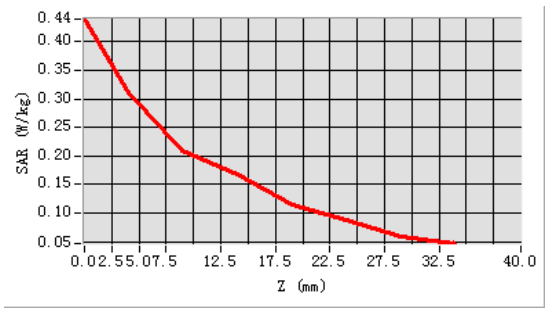
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 5: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	GPRS 850
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	0.84

Maximum location: X=10.00, Y=-19.00
SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.210236
SAR 1g (W/Kg)	0.300344

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

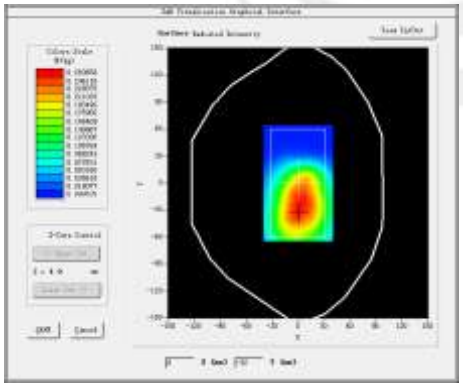
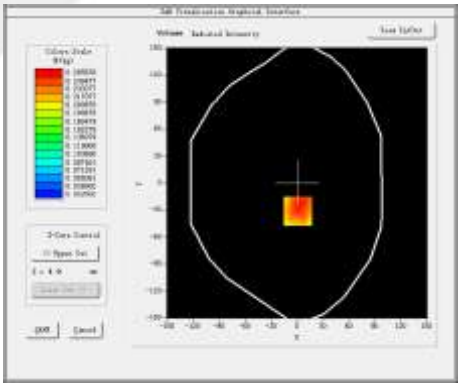
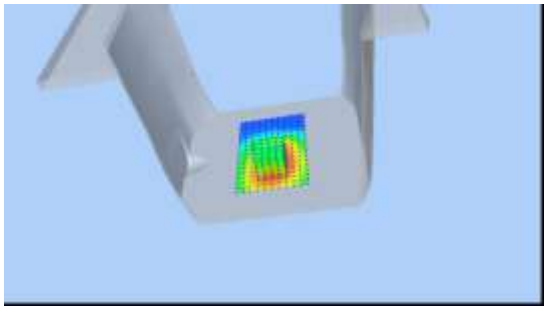
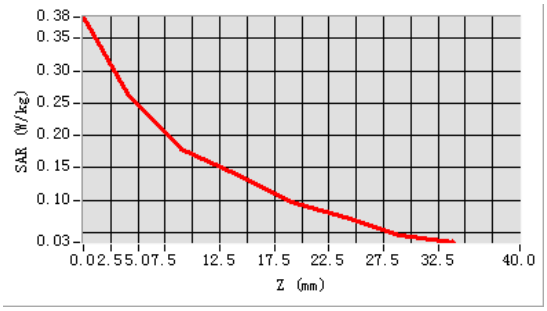
Plot 6: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	GPRS 850
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	2.77

Maximum location: X=1.00, Y=-31.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.176843
SAR 1g (W/Kg)	0.256517

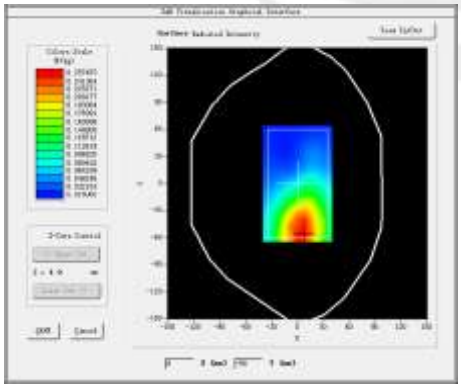
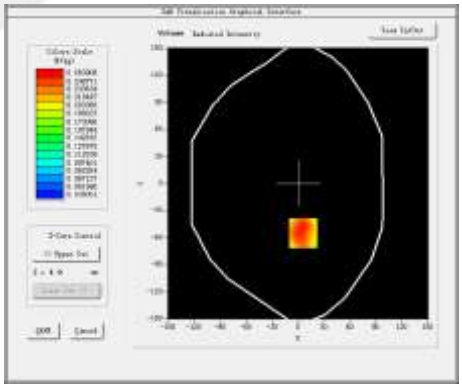
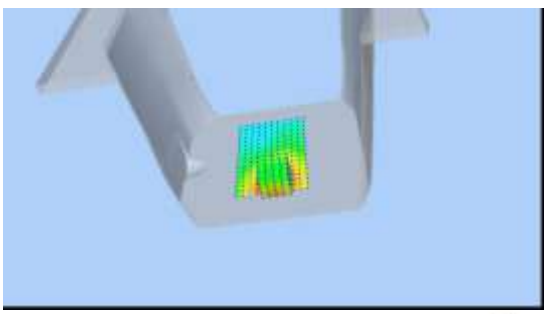
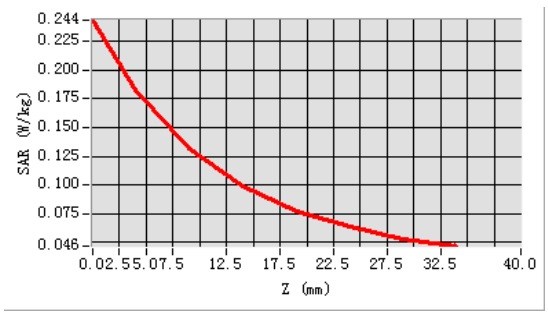
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 7: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body lift side
Band	GPRS 850
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.68

Maximum location: X=6.00, Y=-55.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.071834
SAR 1g (W/Kg)	0.126739

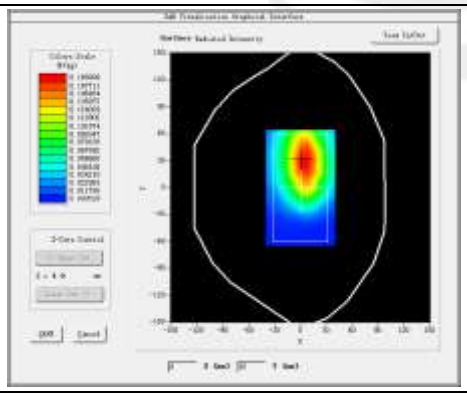
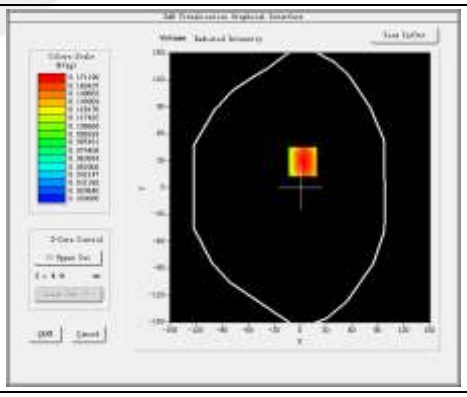
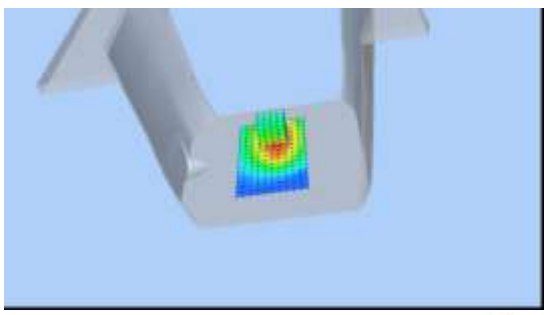
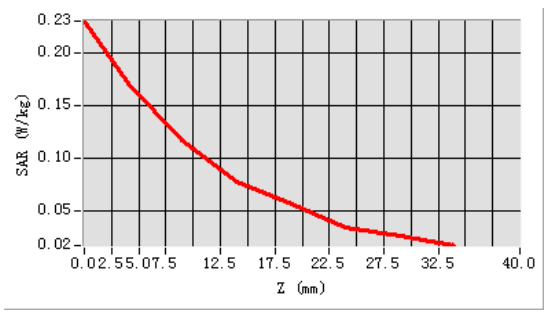
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 8: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	GPRS 850
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.24

Maximum location: X=3.00, Y=29.00
SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.107001
SAR 1g (W/Kg)	0.164654

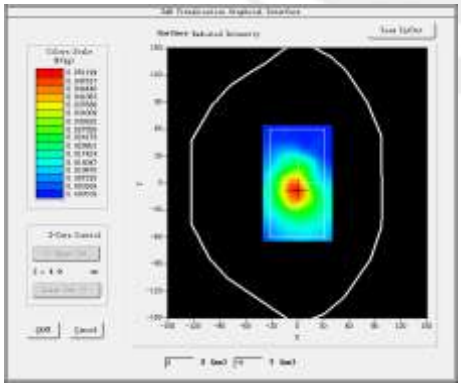
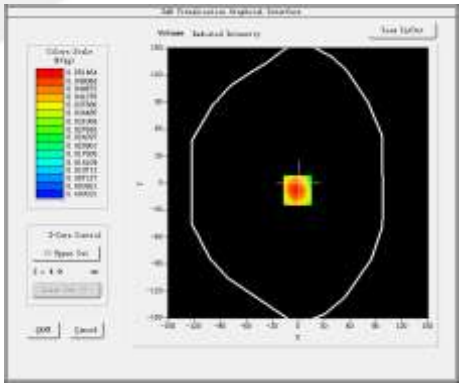
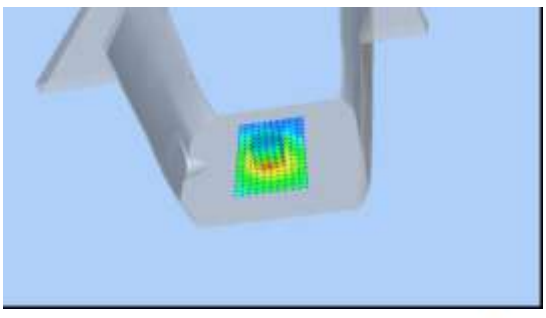
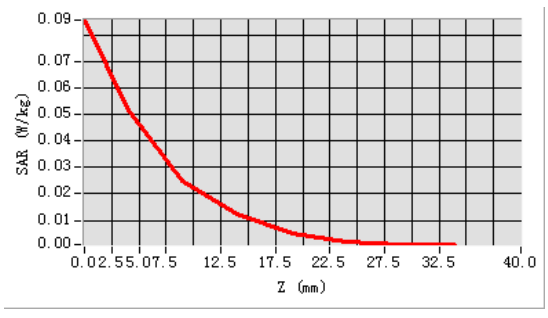
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 9: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	GPRS 850
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-4.87

Maximum location: X=-1.00, Y=-8.00
SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.026466
SAR 1g (W/Kg)	0.049742

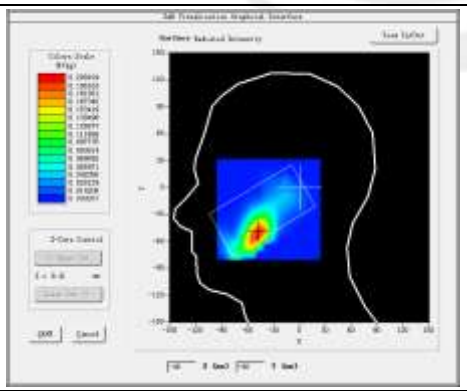
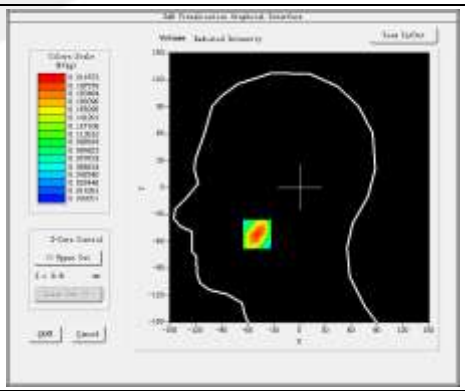
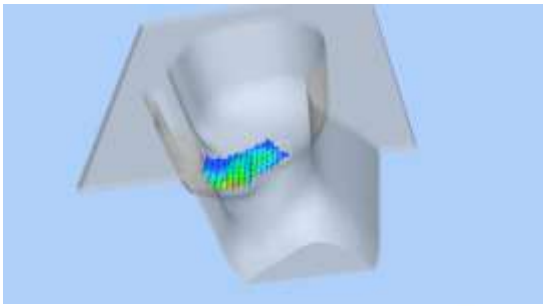
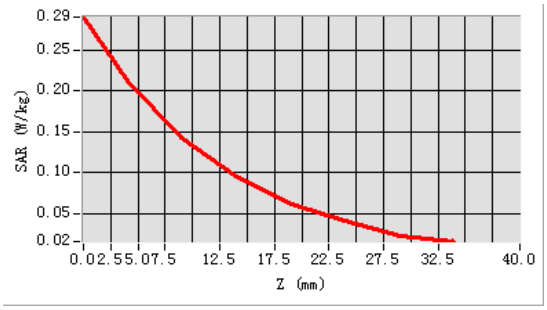
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 10: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.24

Maximum location: X=-49.00, Y=-52.00
SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.110917
SAR 1g (W/Kg)	0.200310

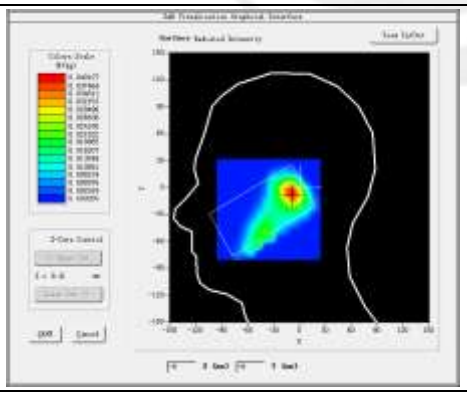
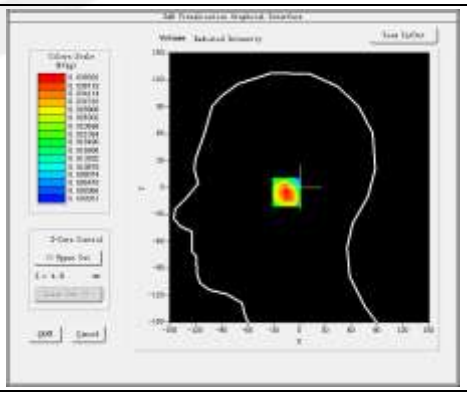
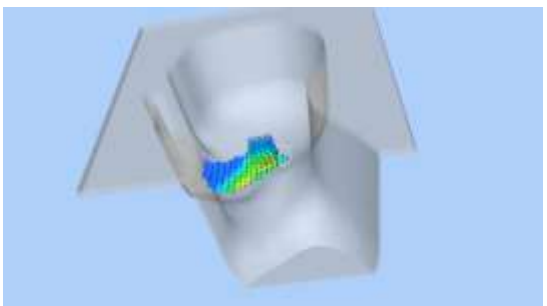
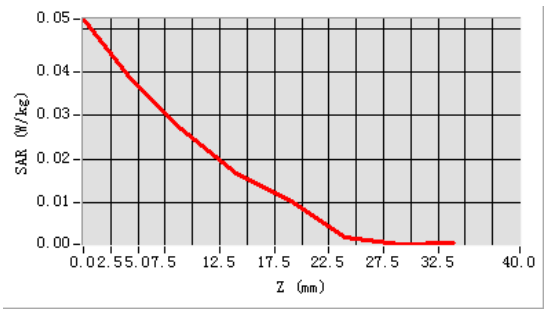
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 11: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.11

Maximum location: X=-9.00, Y=-5.00
SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.020297
SAR 1g (W/Kg)	0.037677

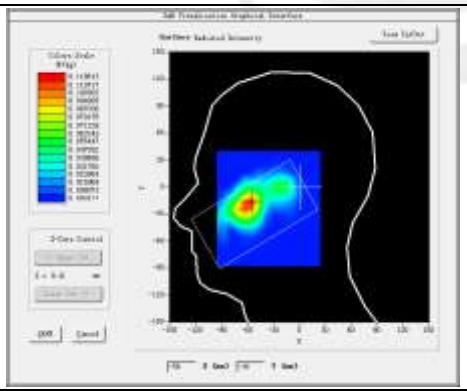
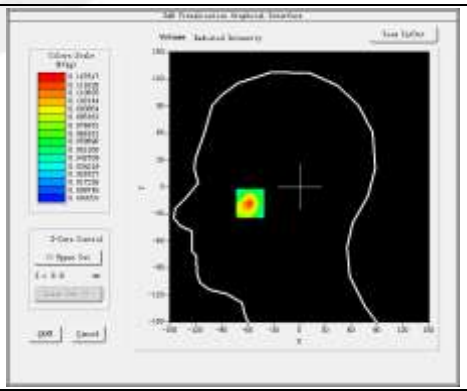
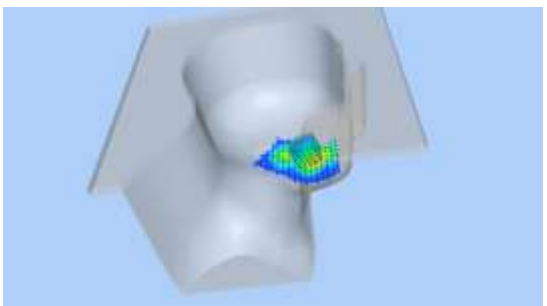
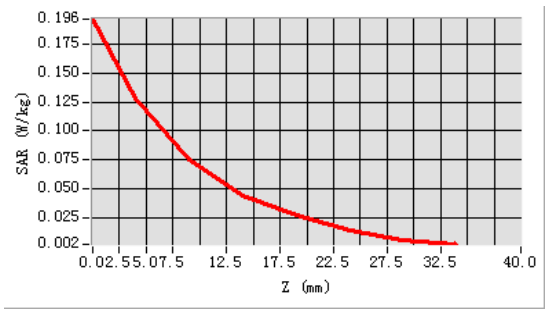
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 12: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.34

Maximum location: X=-57.00, Y=-17.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.063643
SAR 1g (W/Kg)	0.117433

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

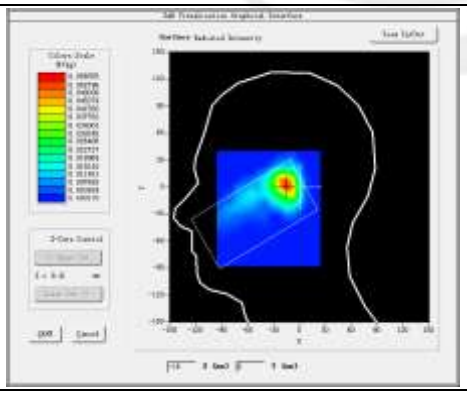
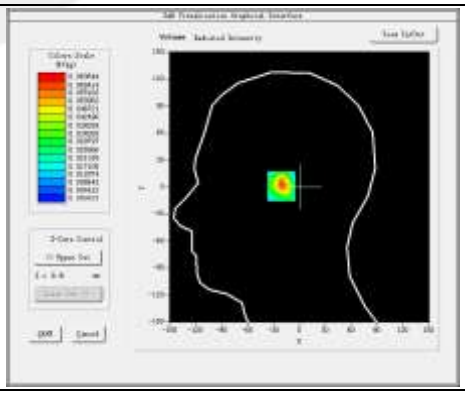
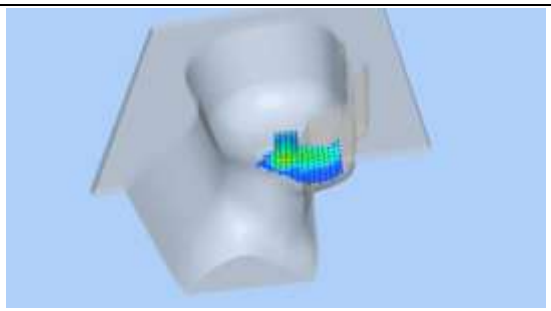
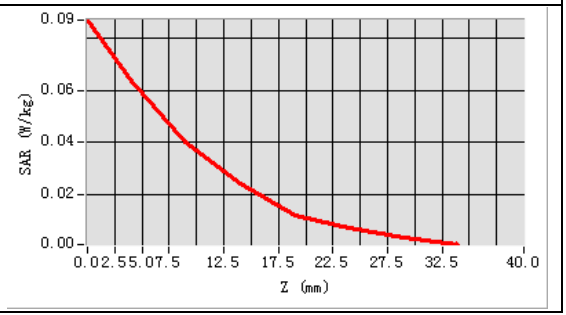
Plot 13: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.59

Maximum location: X=-16.00, Y=1.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.029325
SAR 1g (W/Kg)	0.059369

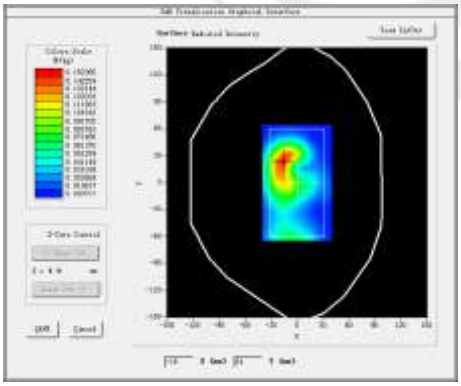
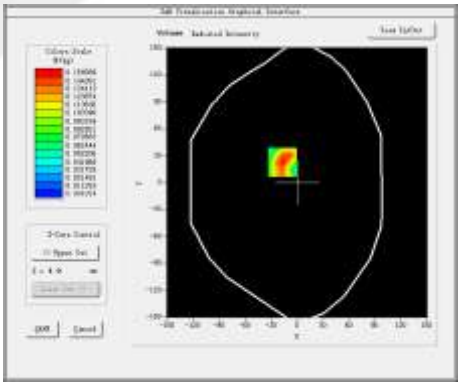
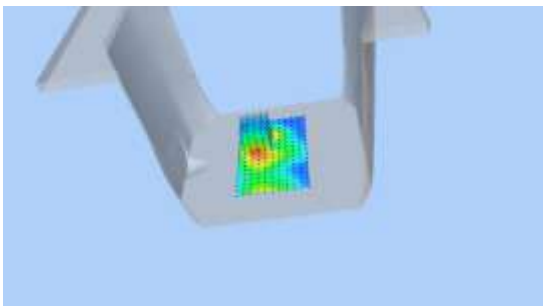
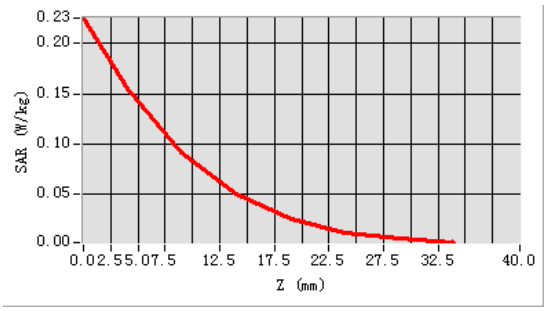
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 14: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	GPRS 1900
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.09

Maximum location: X=-17.00, Y=23.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.077339
SAR 1g (W/Kg)	0.145517

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

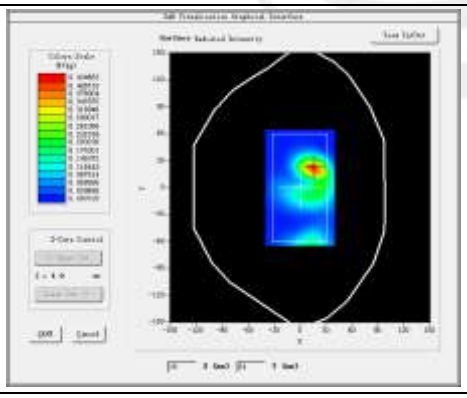
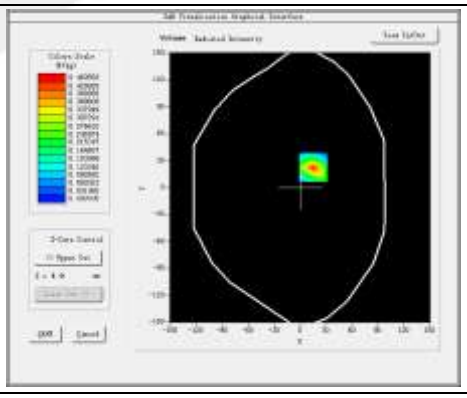
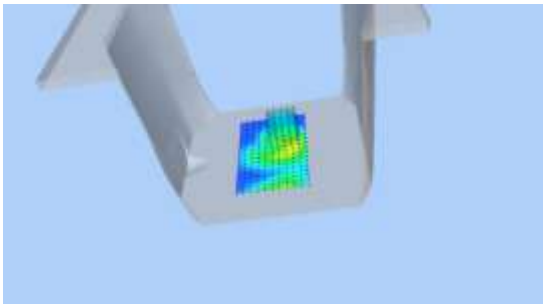
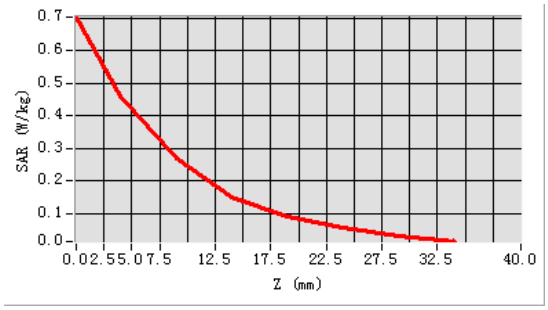
Plot 15: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Behind
Band	GPRS 1900
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	2.86

Maximum location: X=15.00, Y=23.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.199256
SAR 1g (W/Kg)	0.411533

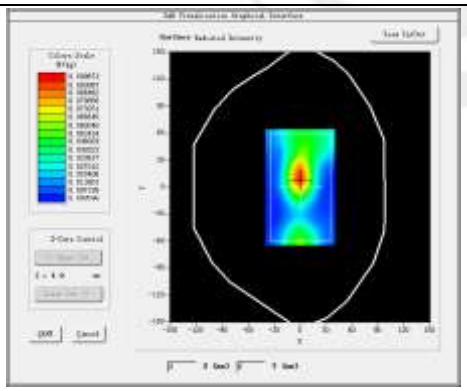
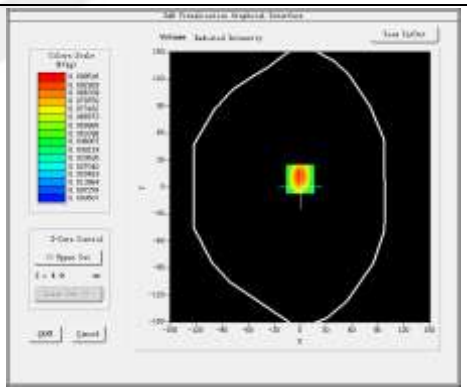
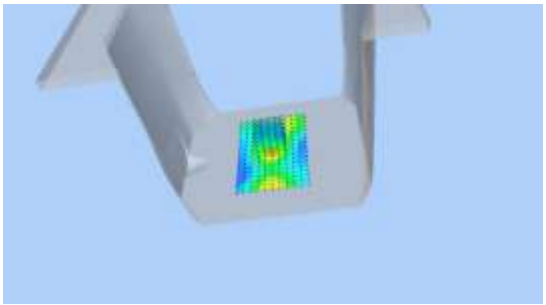
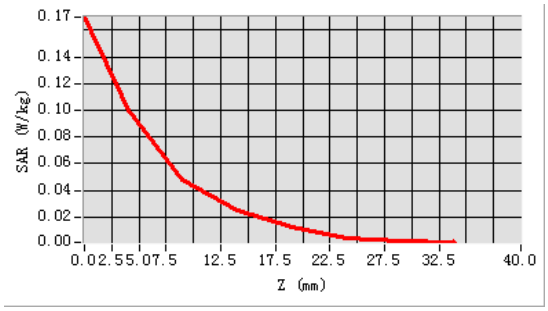
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 16: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body lift side
Band	GPRS 1900
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-3.01

Maximum location: X=0.00, Y=9.00
SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.054287
SAR 1g (W/Kg)	0.096834

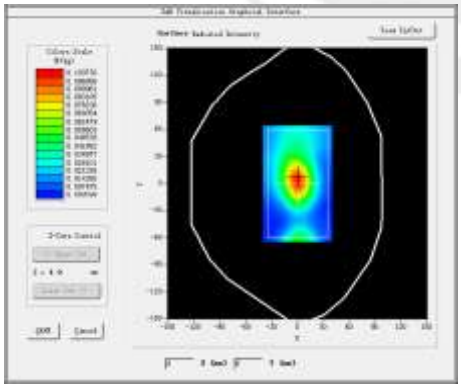
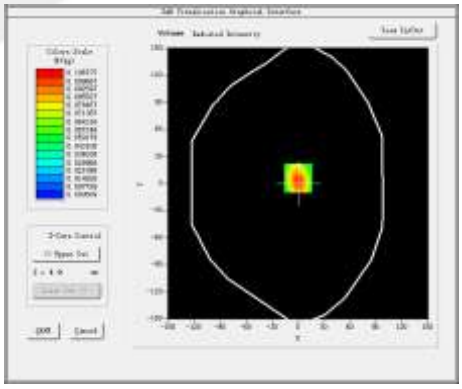
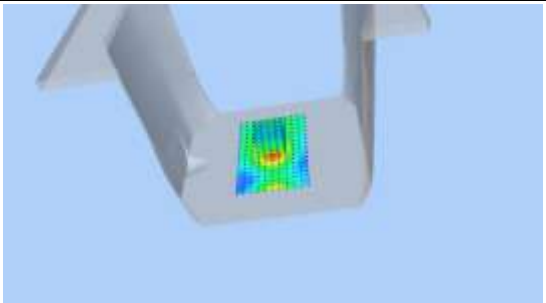
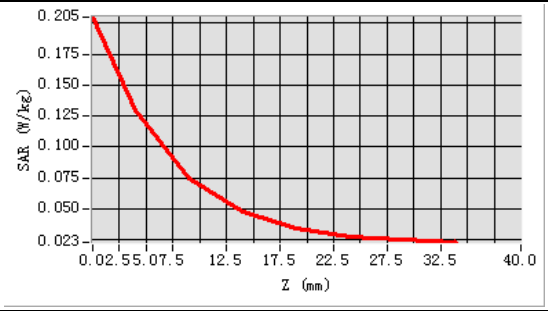
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 17: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	GPRS 1900
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.59

Maximum location: X=1.00, Y=16.00
SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.074931
SAR 1g (W/Kg)	0.119348

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

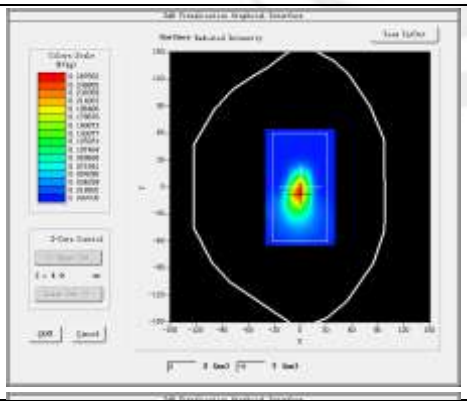
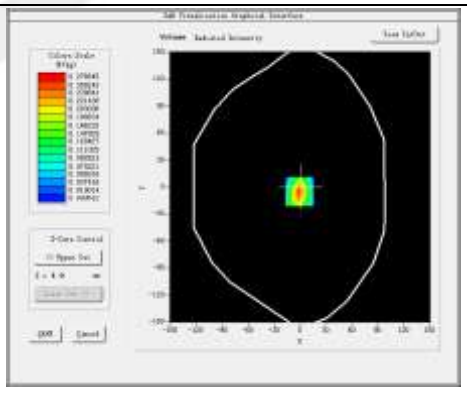
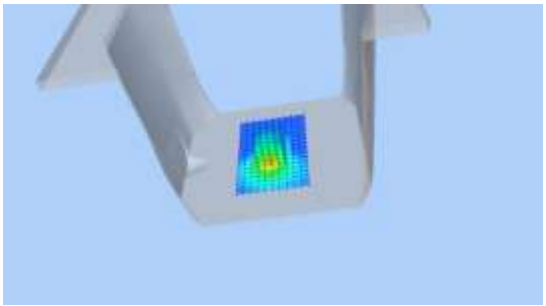
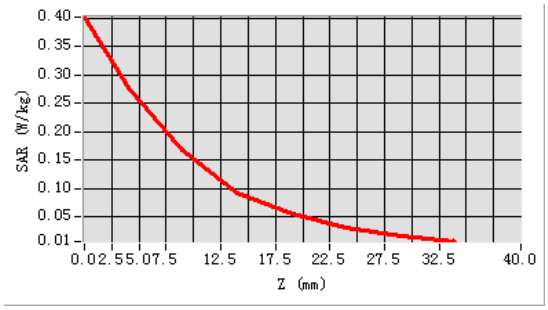
Plot 18: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	GPRS 1900
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.0
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.78

Maximum location: X=-1.00, Y=-5.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.126158
SAR 1g (W/Kg)	0.248102

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

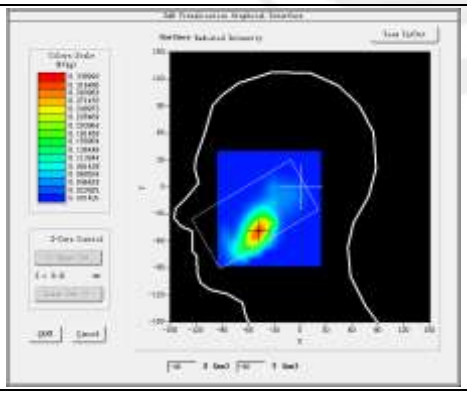
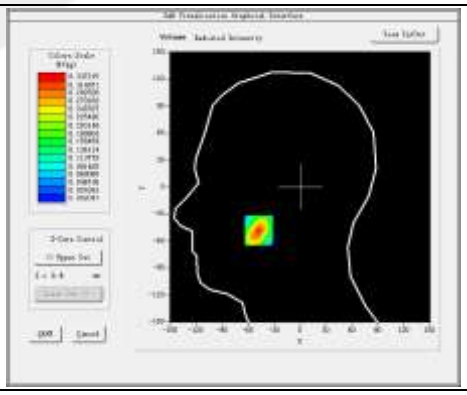
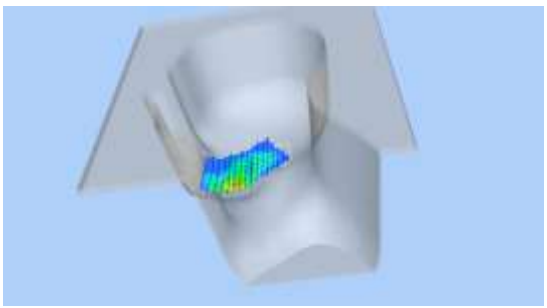
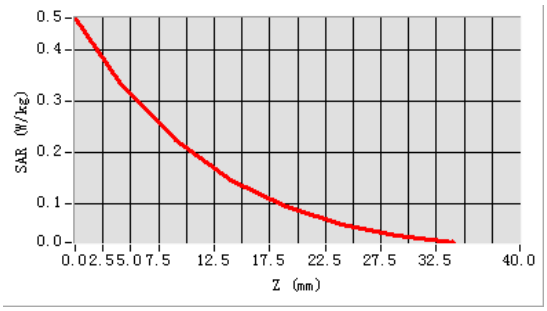
Plot 19: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-3.38

Maximum location: X=-48.00, Y=-48.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.175787
SAR 1g (W/Kg)	0.316050

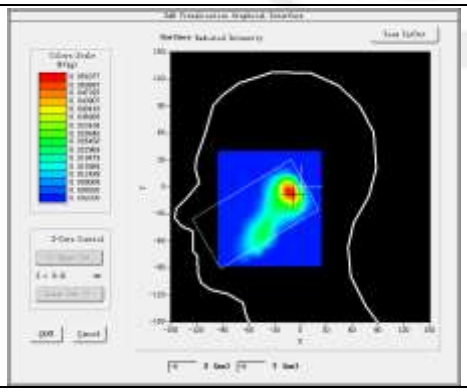
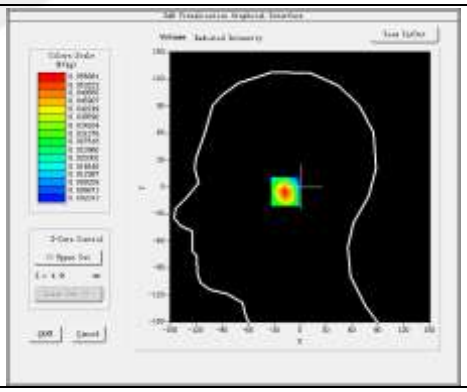
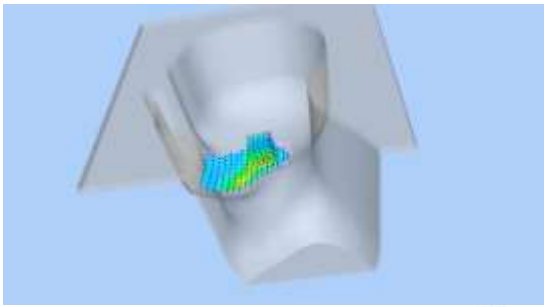
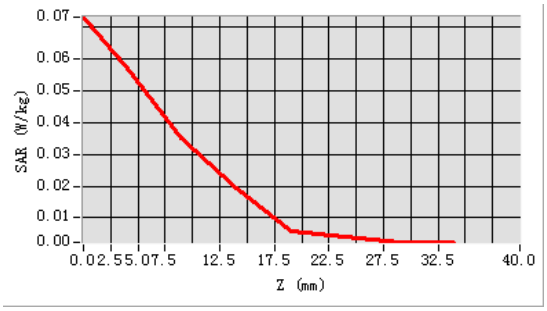
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 20: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.30

Maximum location: X=-12.00, Y=-5.00
SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.025375
SAR 1g (W/Kg)	0.051375

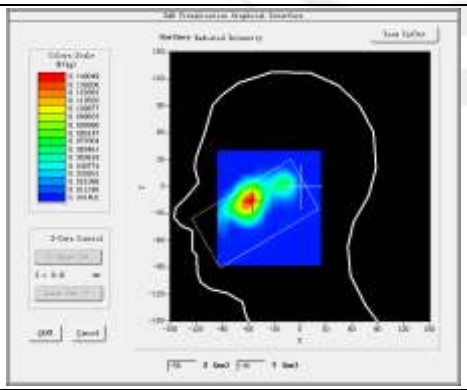
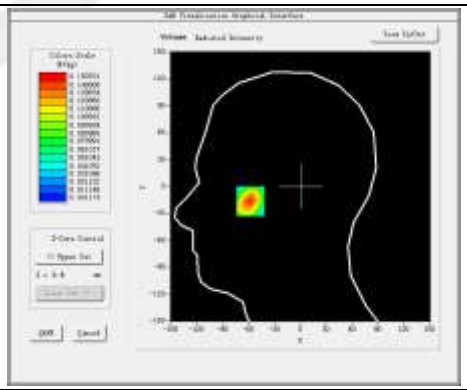
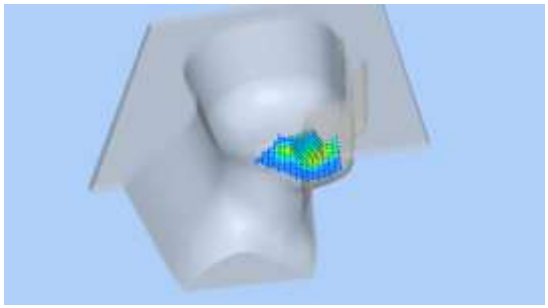
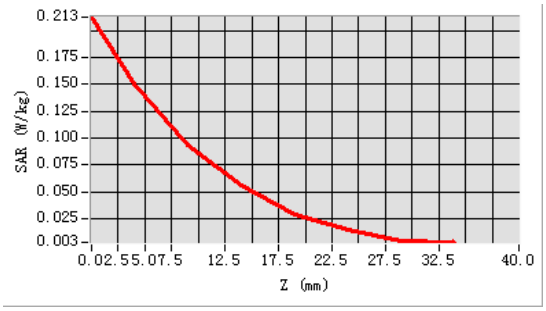
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 21: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.53

Maximum location: X=-58.00, Y=-15.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.076575
SAR 1g (W/Kg)	0.141726

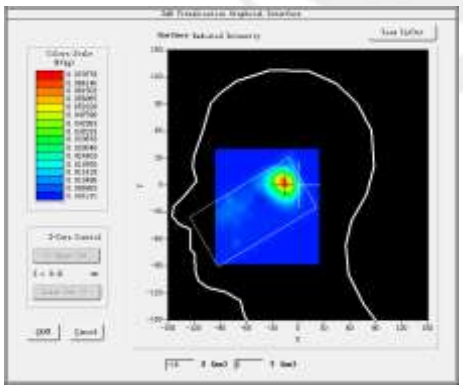
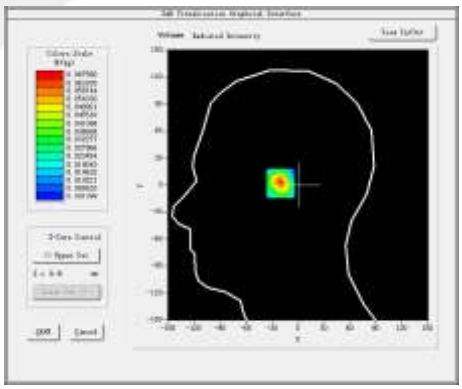
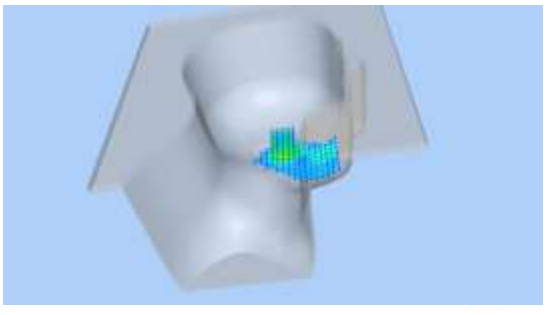
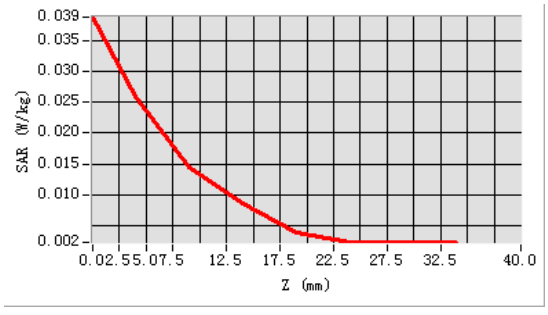
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 22: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.96

Maximum location: X=-16.00, Y=2.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.029596
SAR 1g (W/Kg)	0.061445

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

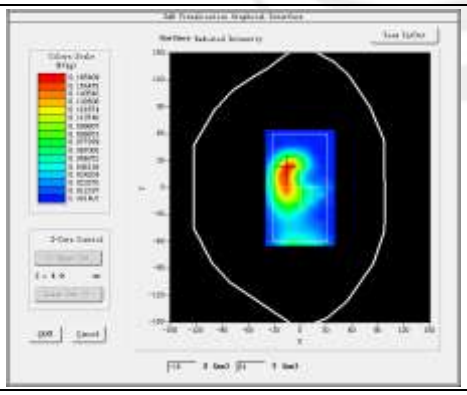
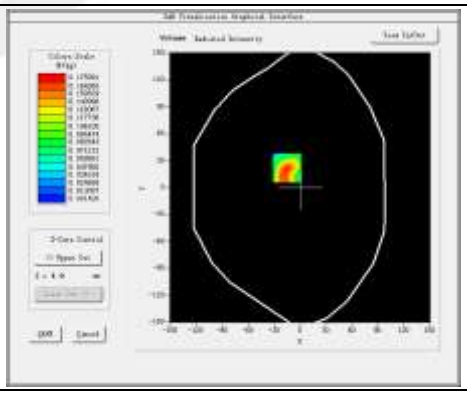
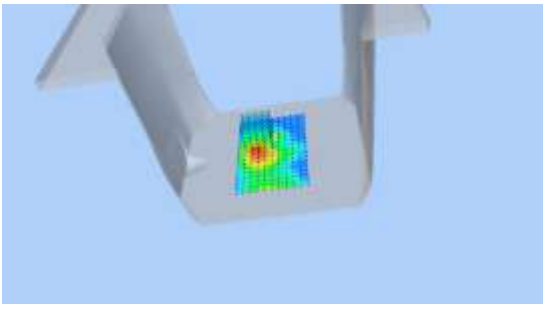
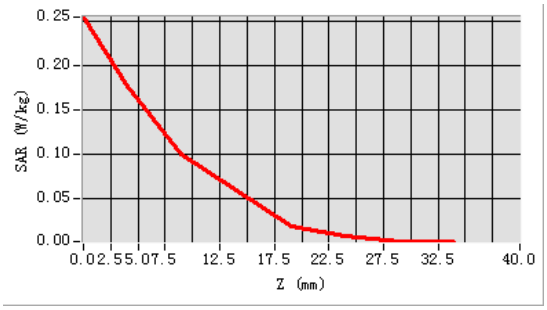
Plot 23: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.54

Maximum location: X=-15.00, Y=22.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.084257
SAR 1g (W/Kg)	0.167772

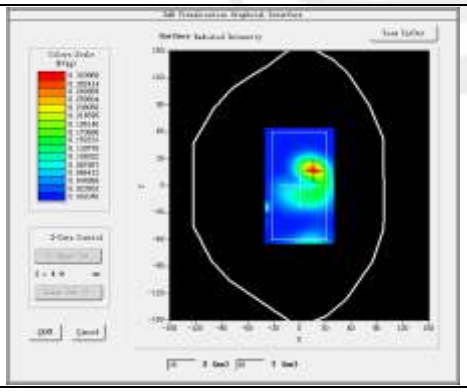
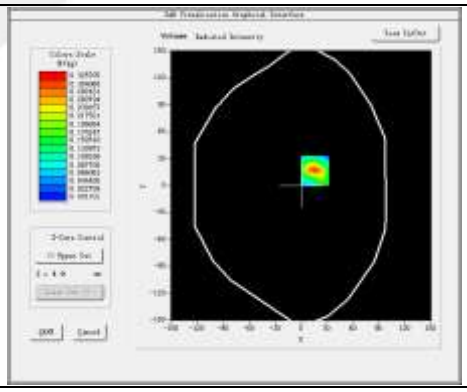
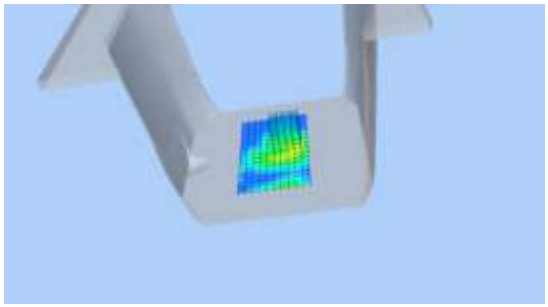
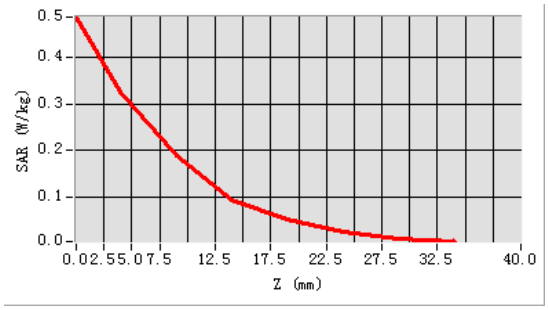
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 24: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	39.71
Conductivity (S/m)	1.40
Variation (%)	-0.31

Maximum location: X=16.00, Y=17.00
SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.135030
SAR 1g (W/Kg)	0.295399

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

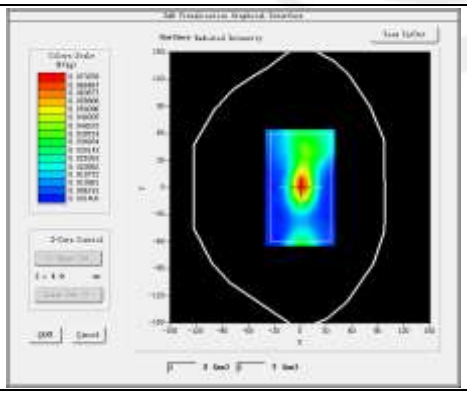
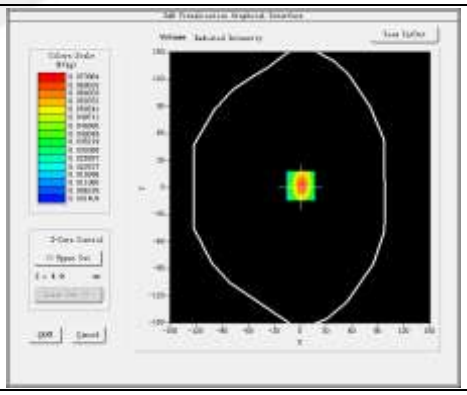
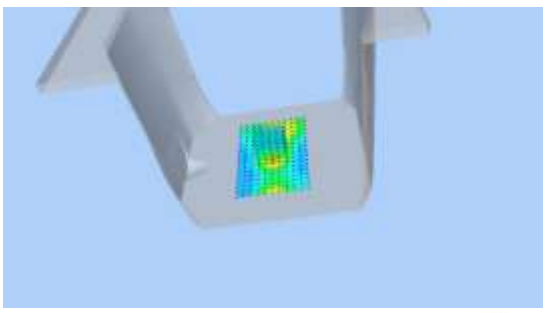
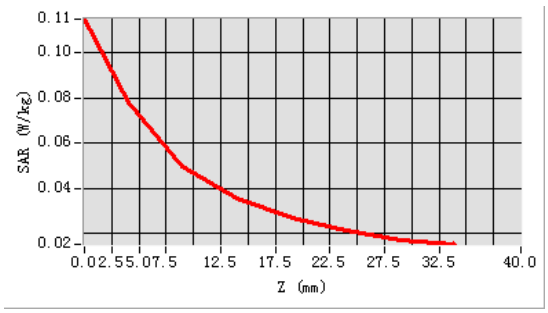
Plot 25: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.11

Maximum location: X=6.00, Y=18.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.027638
SAR 1g (W/Kg)	0.051349

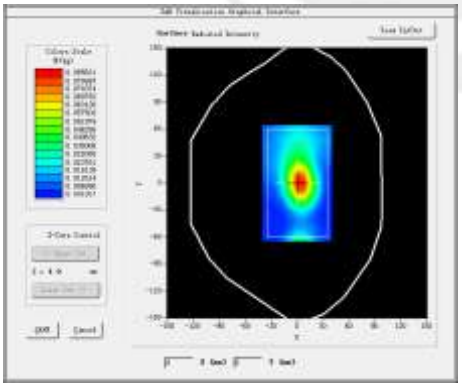
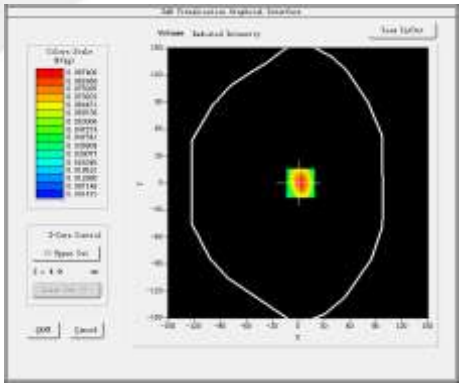
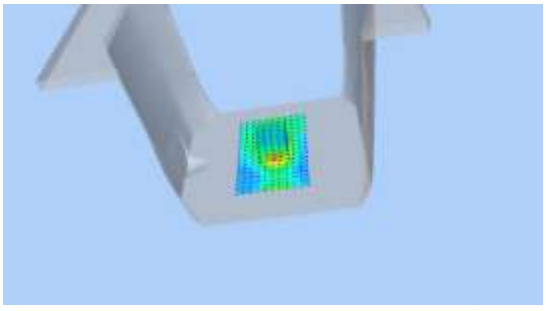
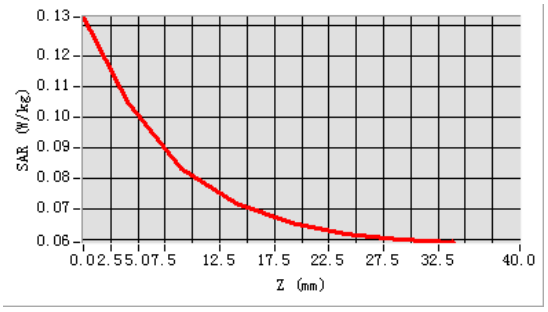
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 26: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	3.08

Maximum location: X=3.00, Y=0.00
SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.035270
SAR 1g (W/Kg)	0.079341

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

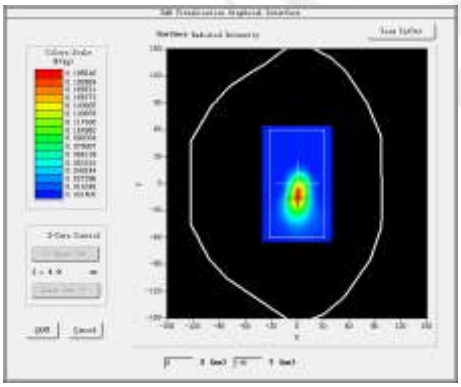
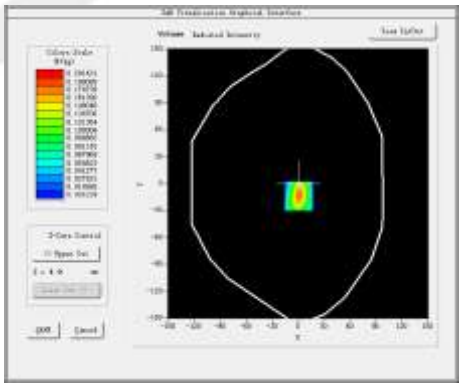
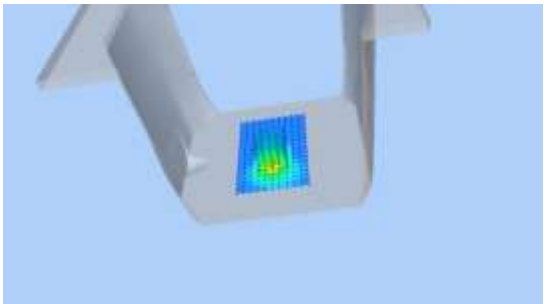
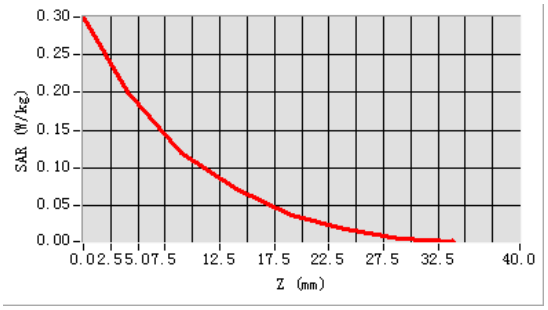
Plot 27: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.19

Maximum location: X=1.00, Y=-14.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.090134
SAR 1g (W/Kg)	0.184872

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

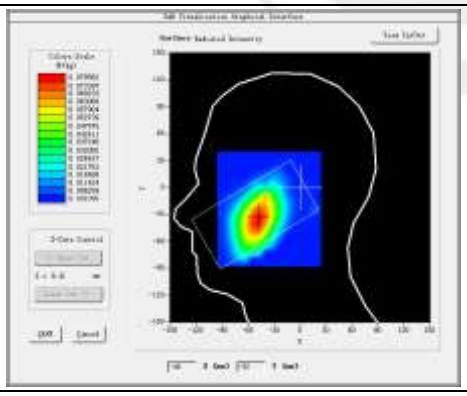
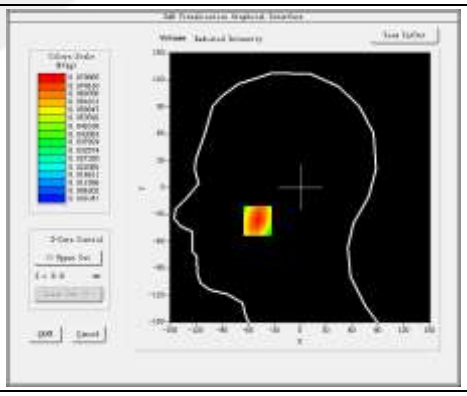
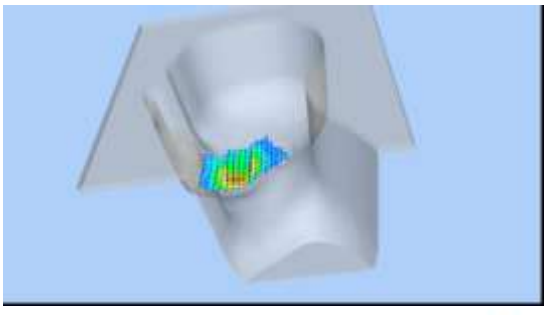
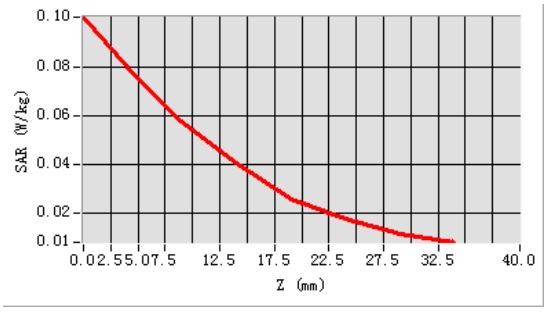
Plot 28: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	3.68

Maximum location: X=-49.00, Y=-37.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.049658
SAR 1g (W/Kg)	0.076507

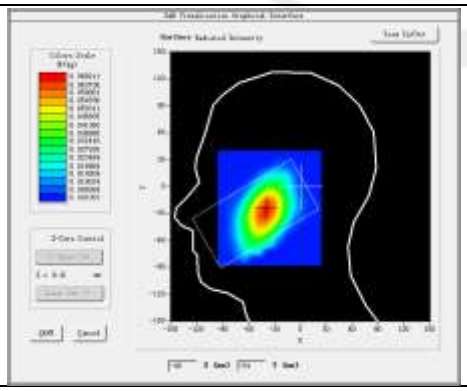
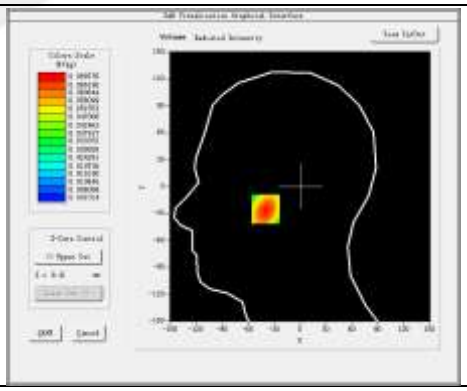
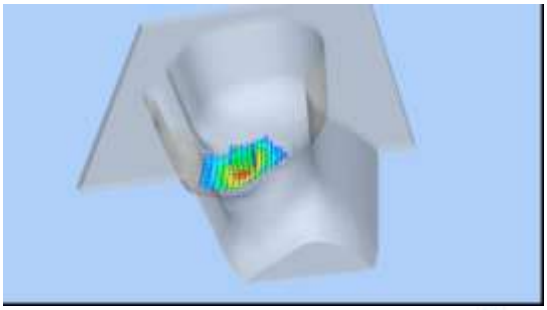
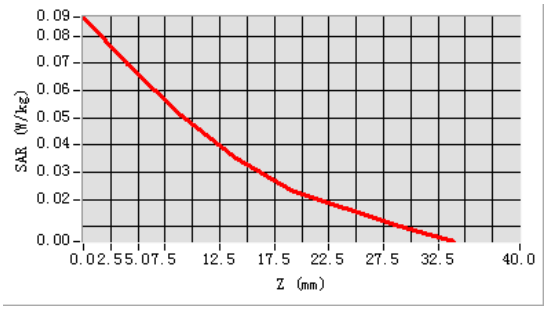
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 29: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.35

Maximum location: X=-40.00, Y=-25.00
SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.044157
SAR 1g (W/Kg)	0.066721

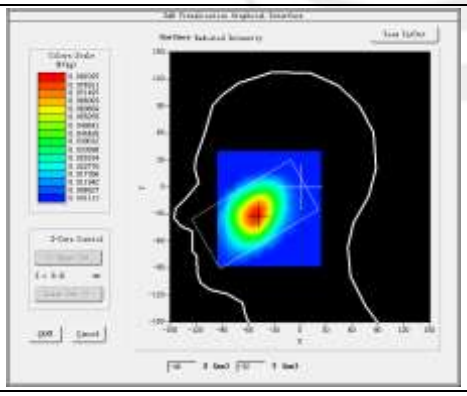
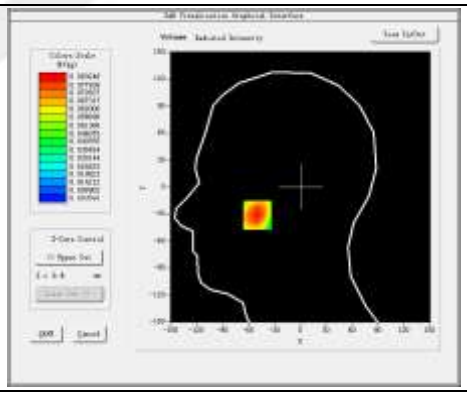
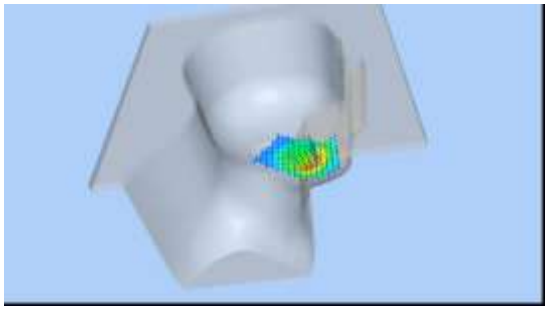
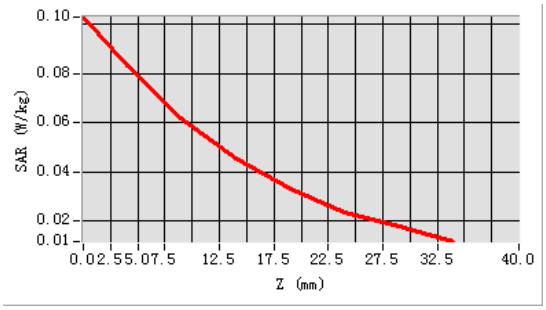
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 30: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.67

Maximum location: X=-50.00, Y=-31.00
SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.054256
SAR 1g (W/Kg)	0.079717

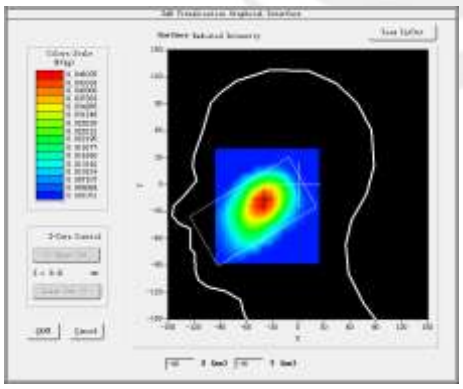
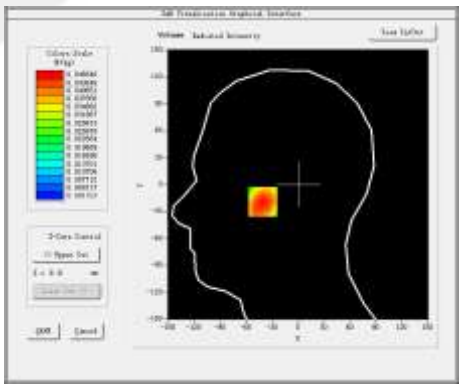
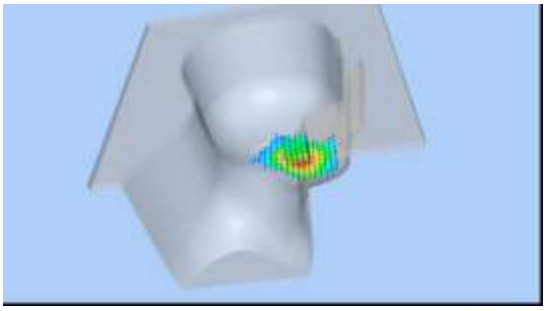
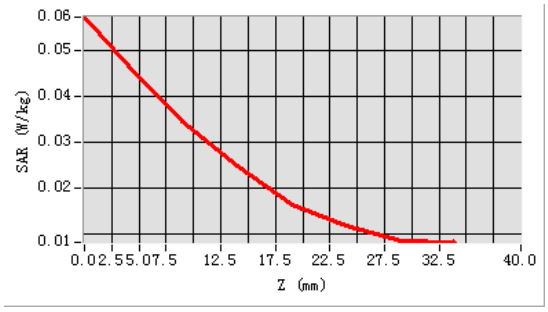
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 31: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	2.85

Maximum location: X=-41.00, Y=-19.00
SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.030421
SAR 1g (W/Kg)	0.044350

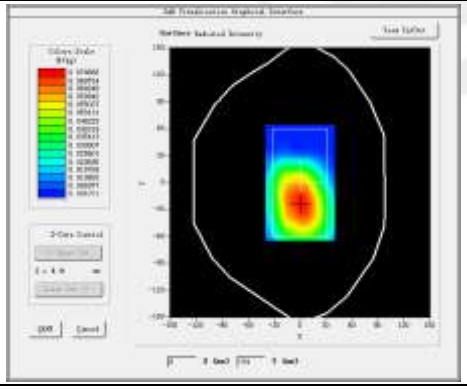
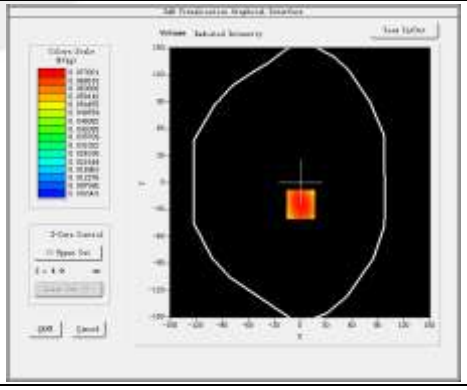
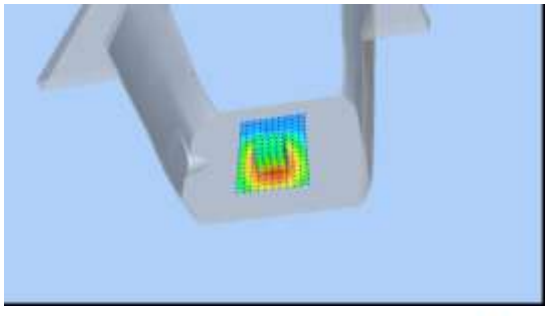
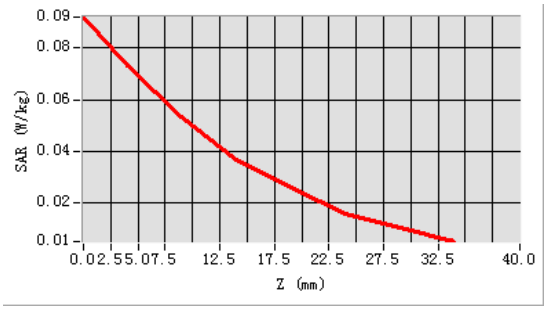
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 32: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-3.00

Maximum location: X=1.00, Y=-24.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.048061
SAR 1g (W/Kg)	0.070699

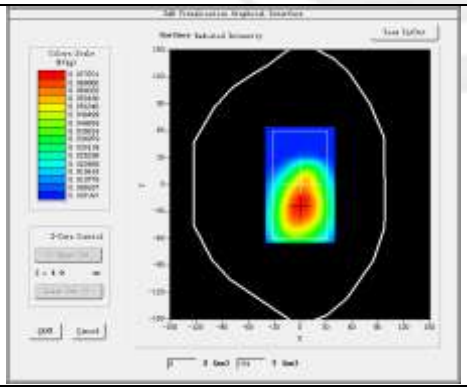
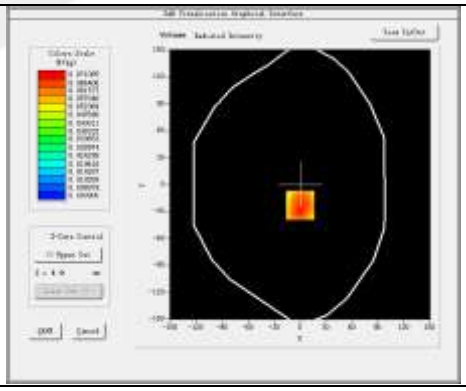
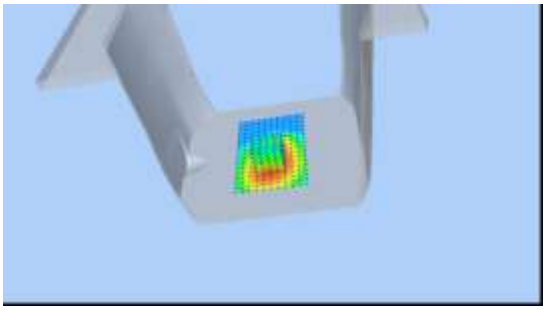
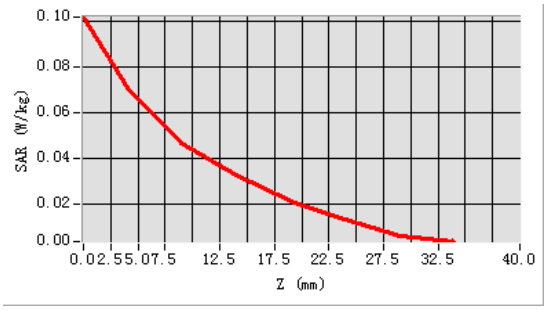
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 33: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-2.29

Maximum location: X=0.00, Y=-23.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.043835
SAR 1g (W/Kg)	0.068164

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

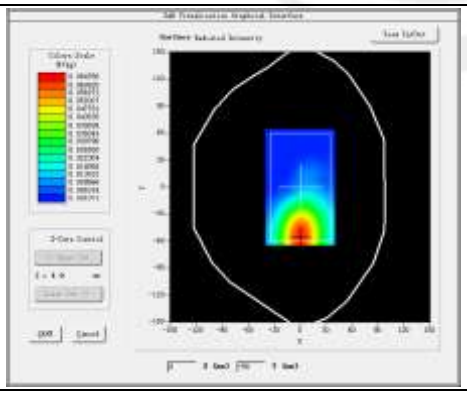
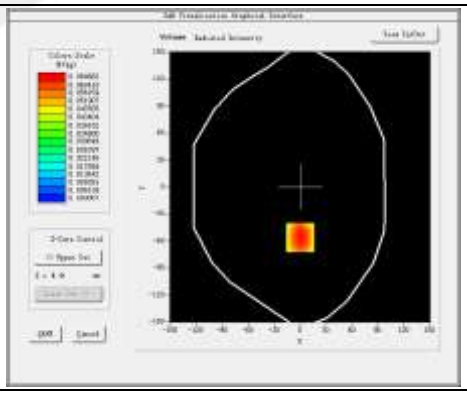
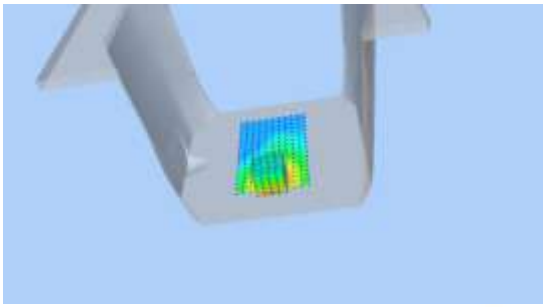
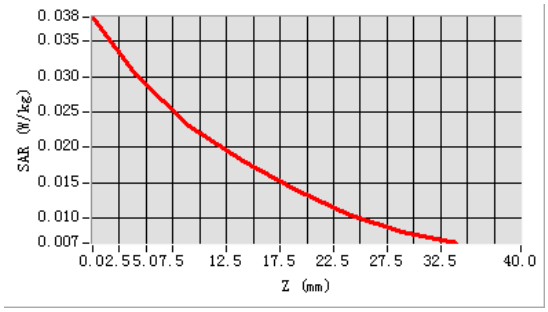
Plot 34: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	1.46

Maximum location: X=4.00, Y=-30.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.014728
SAR 1g (W/Kg)	0.026481

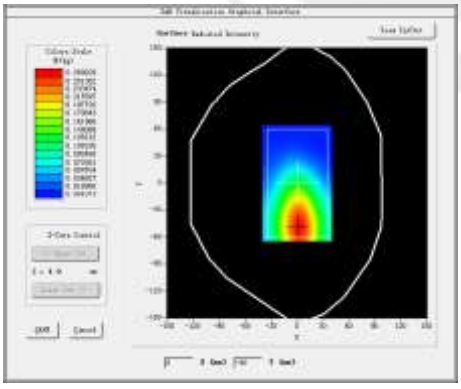
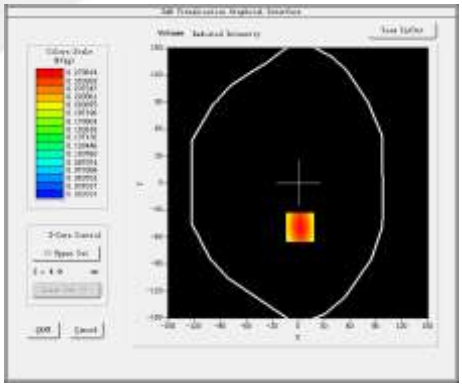
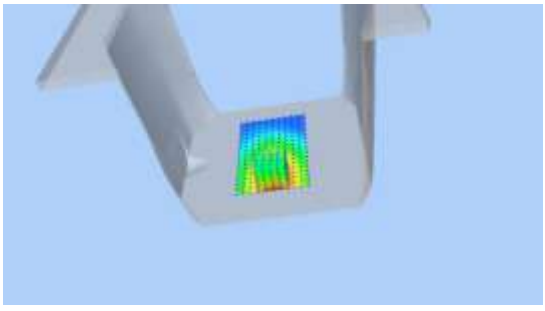
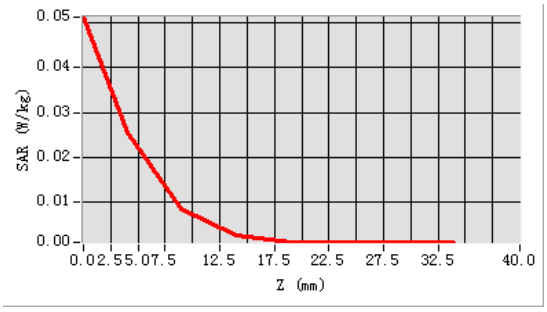
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 35: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.49

Maximum location: X=1.00, Y=-44.00
SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.019638
SAR 1g (W/Kg)	0.032934

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

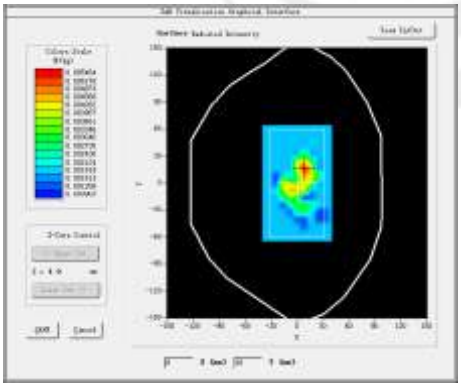
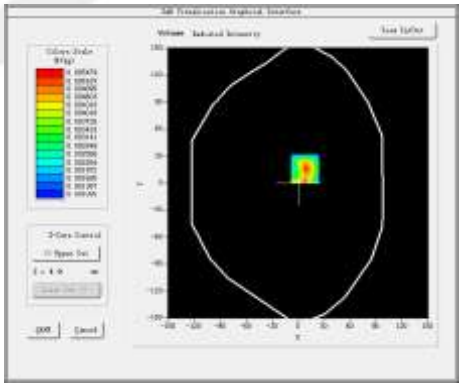
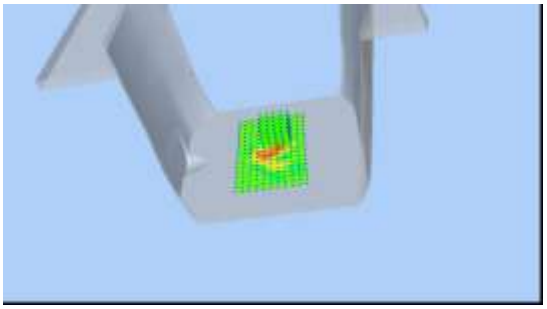
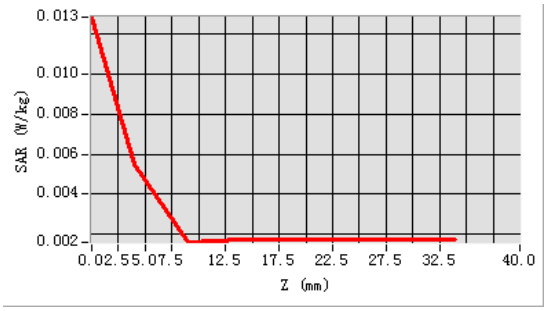
Plot 36: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	2.35

Maximum location: X=8.00, Y=16.00

SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.002911
SAR 1g (W/Kg)	0.005861

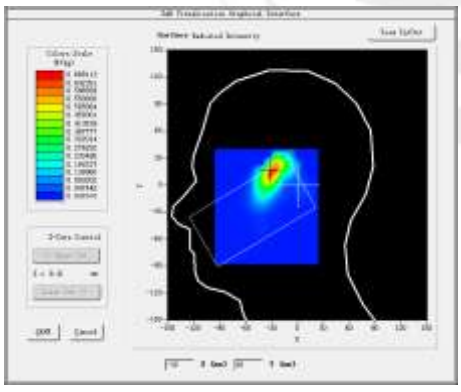
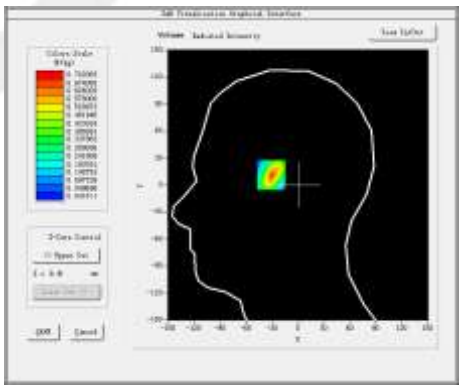
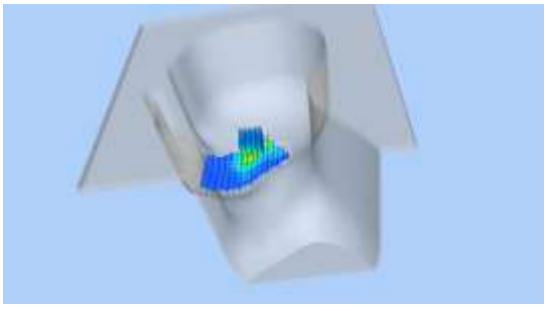
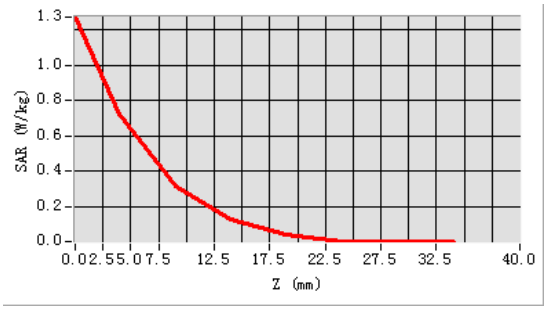
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 37: DUT:4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-4.70

Maximum location: X=-31.00, Y=15.00
SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.279154
SAR 1g (W/Kg)	0.664931

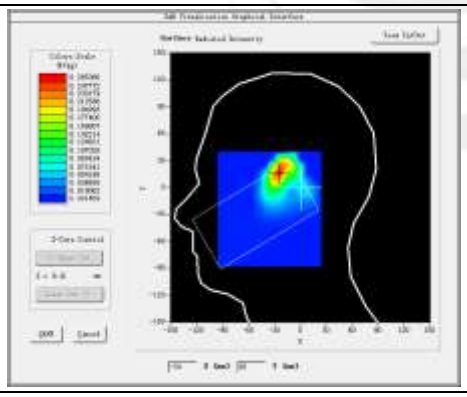
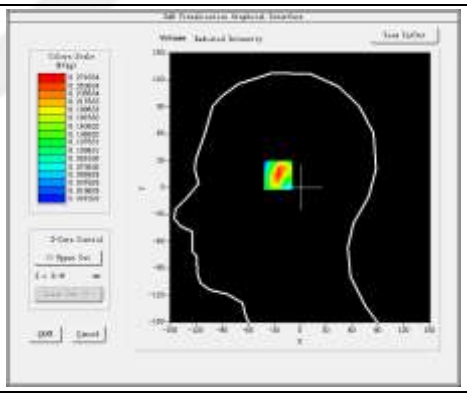
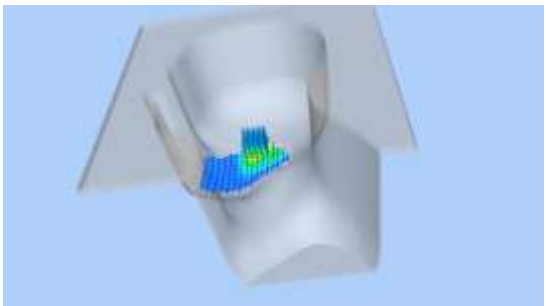
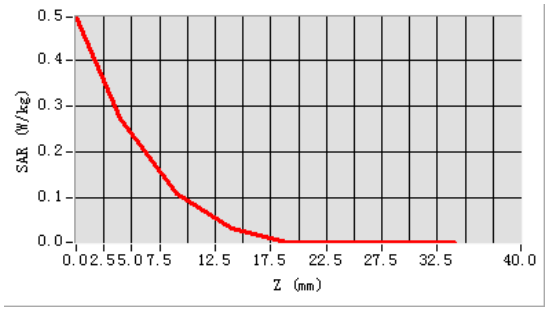
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 38: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-1.04

Maximum location: X=-25.00, Y=17.00
SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.105303
SAR 1g (W/Kg)	0.251621

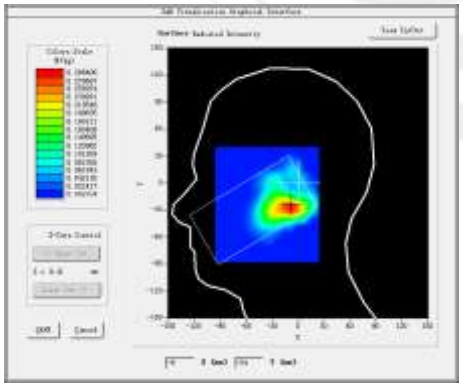
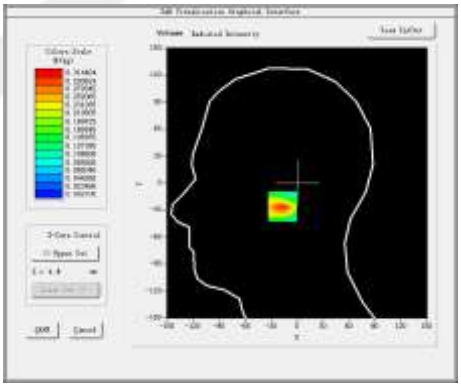
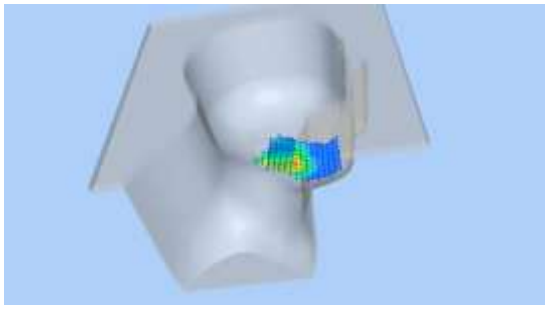
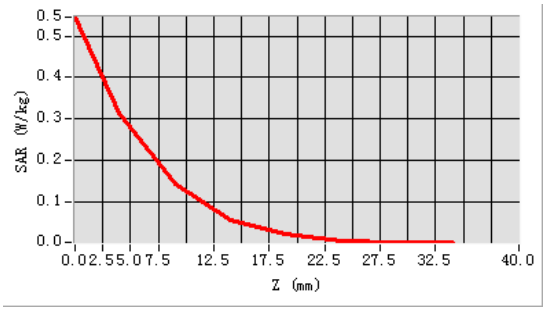
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 39: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.91

Maximum location: X=-8.00, Y=-26.00
SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.132787
SAR 1g (W/Kg)	0.293401

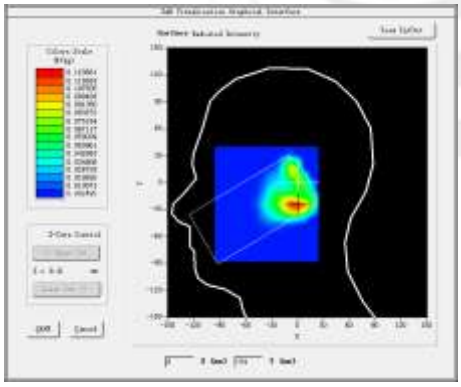
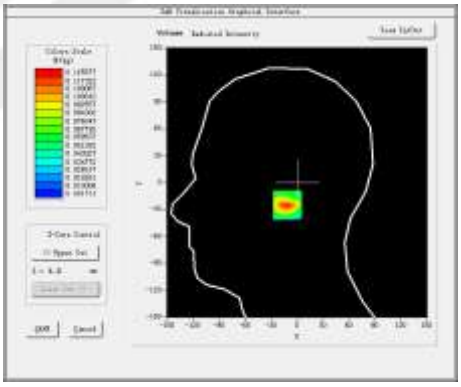
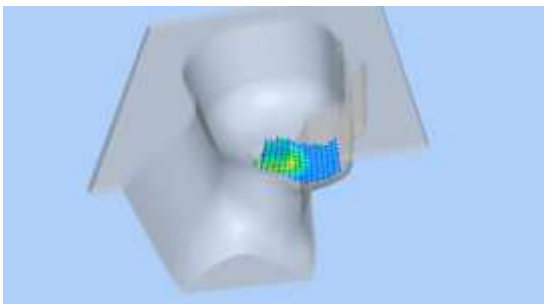
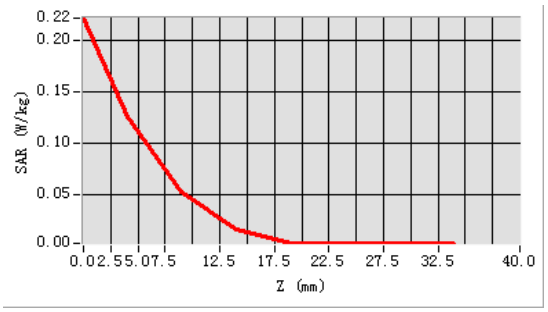
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 40: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-3.91

Maximum location: X=-1.00, Y=-25.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.050024
SAR 1g (W/Kg)	0.115685

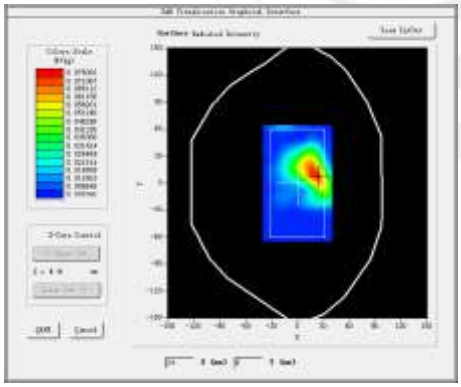
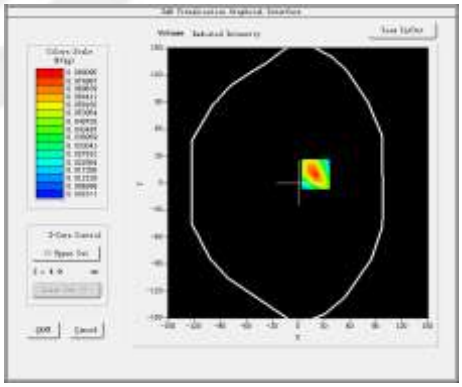
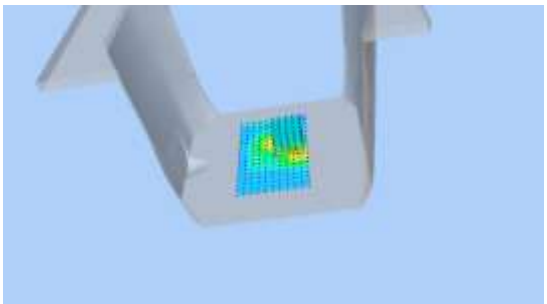
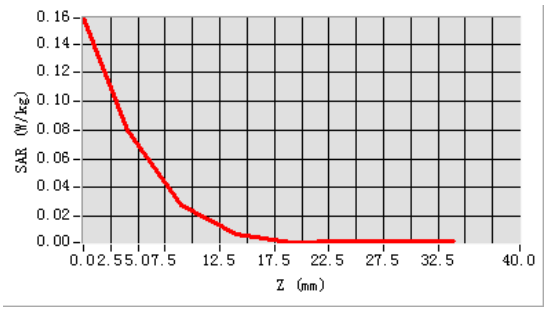
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 41: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front side
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-3..82

Maximum location: X=20.00, Y=10.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.031779
SAR 1g (W/Kg)	0.076578

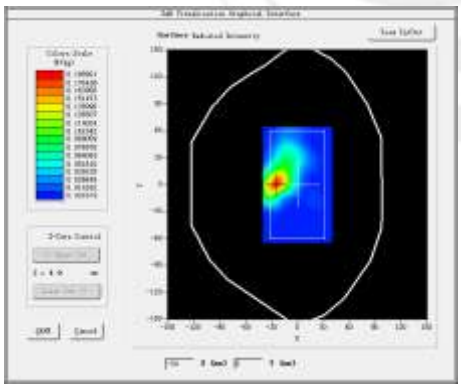
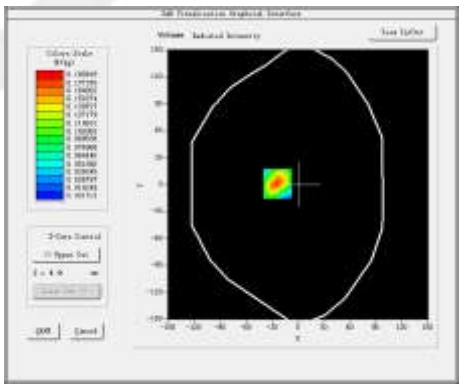
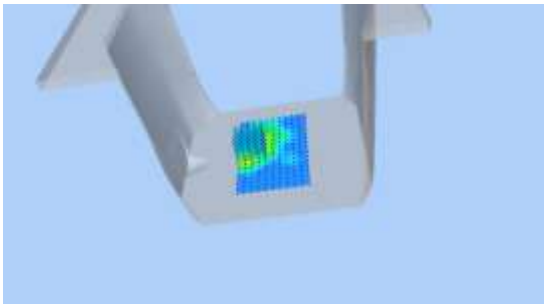
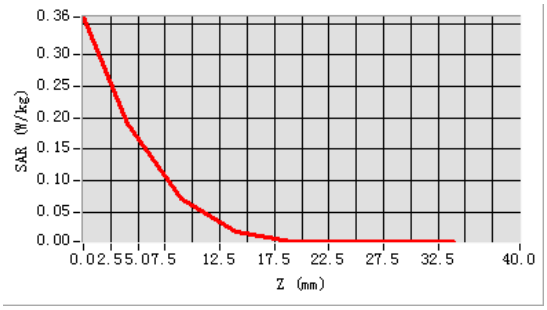
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 42: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.14

Maximum location: X=-24.00, Y=1.00
SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.073615
SAR 1g (W/Kg)	0.178762

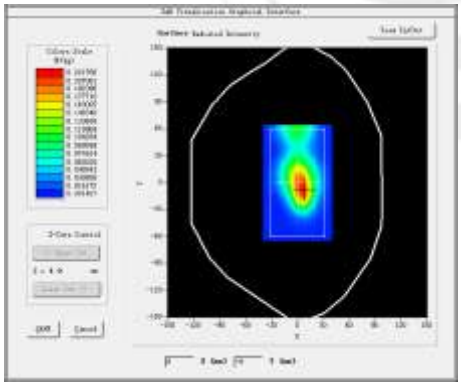
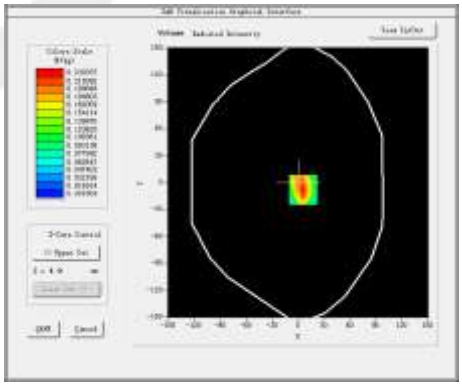
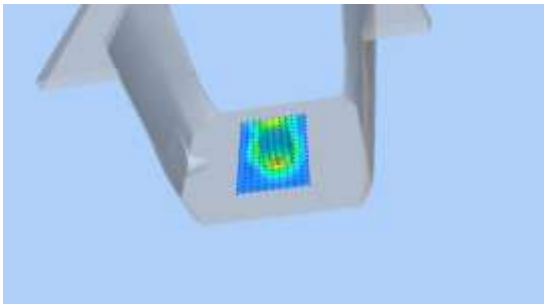
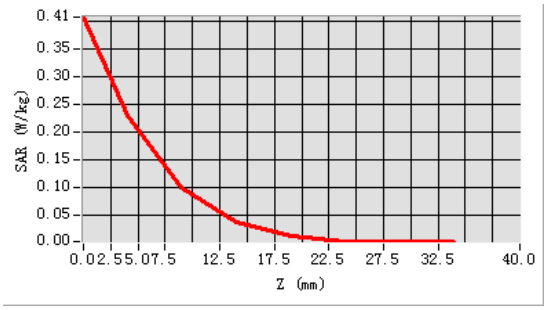
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 43: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body lift side
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-1.32

Maximum location: X=6.00, Y=-8.00
SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.099336
SAR 1g (W/Kg)	0.218467

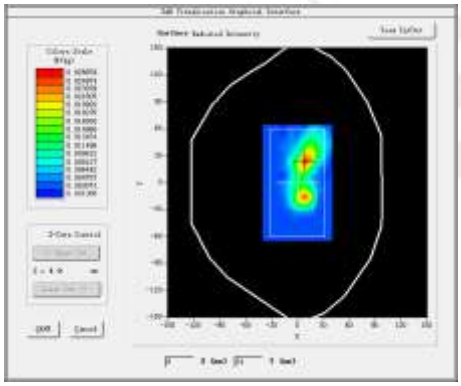
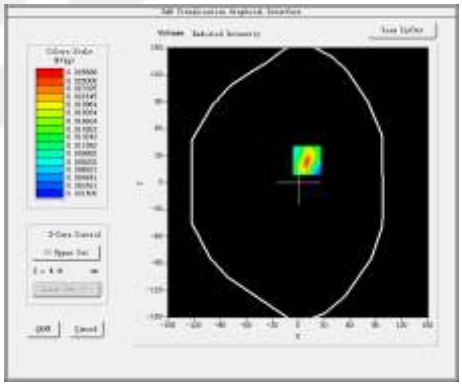
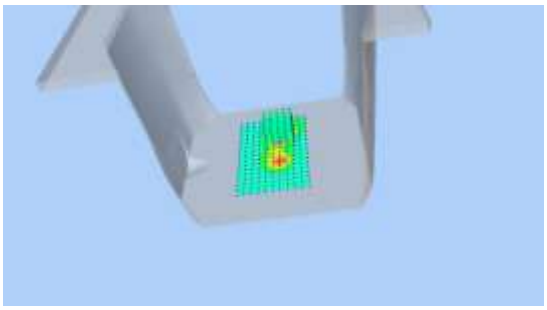
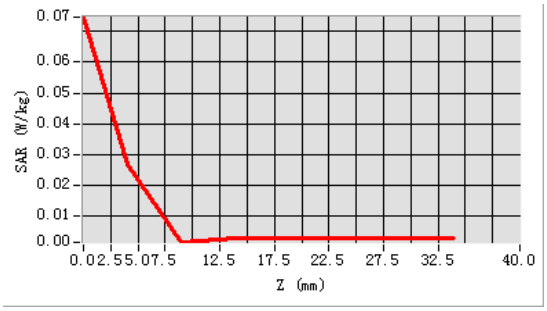
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 44: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body top side
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-2.45

Maximum location: X=10.00, Y=25.00
SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.010387
SAR 1g (W/Kg)	0.028257

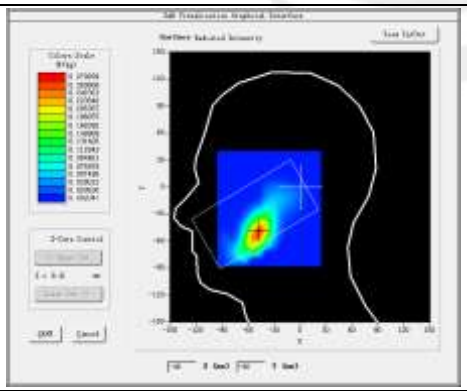
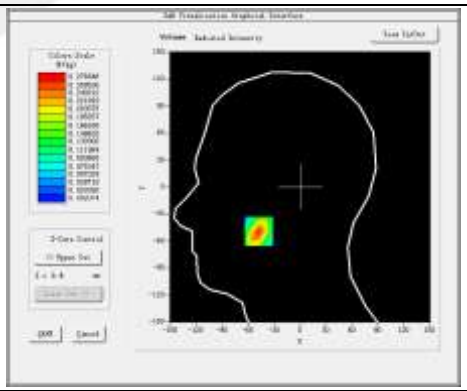
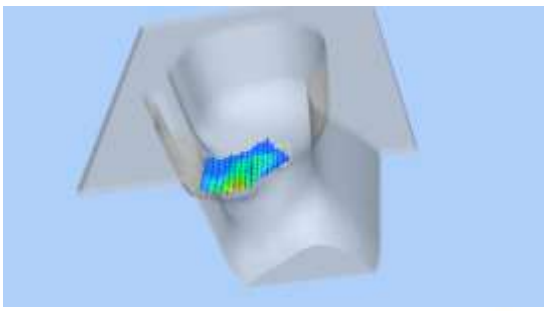
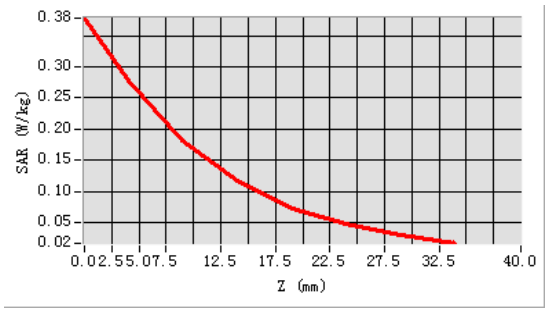
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 45: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-1.06

Maximum location: X=-48.00, Y=-49.00
SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.142716
SAR 1g (W/Kg)	0.257610

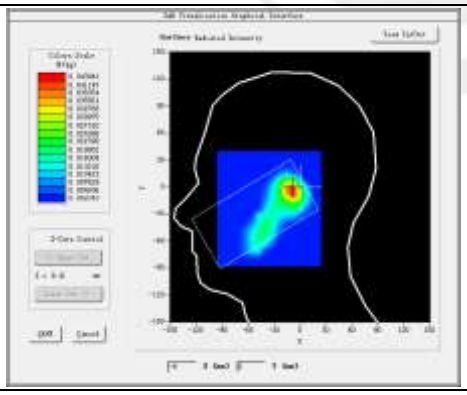
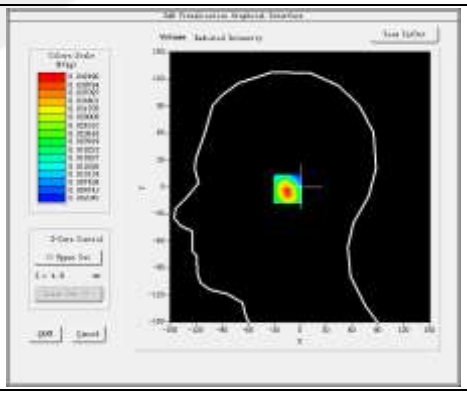
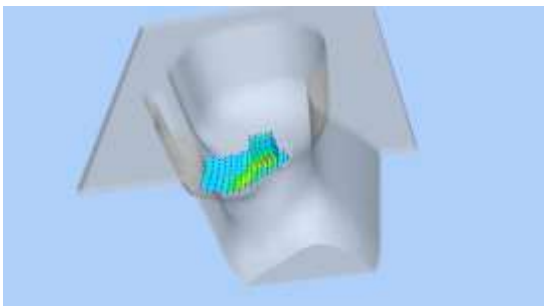
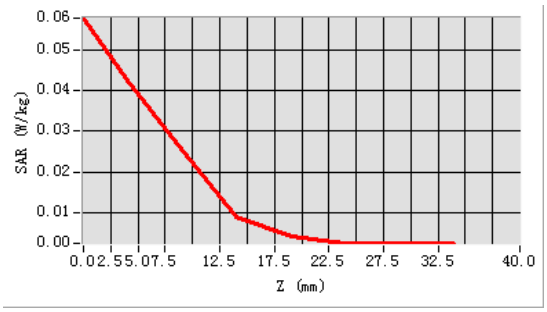
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 46: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-2.58

Maximum location: X=-90.00, Y=-27.00
SAR Peak: 0.072 W/kg

SAR 10g (W/Kg)	0.017948
SAR 1g (W/Kg)	0.038619

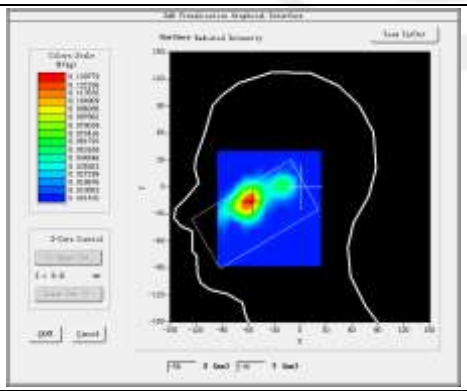
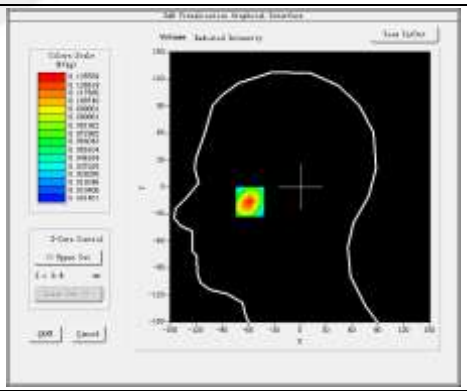
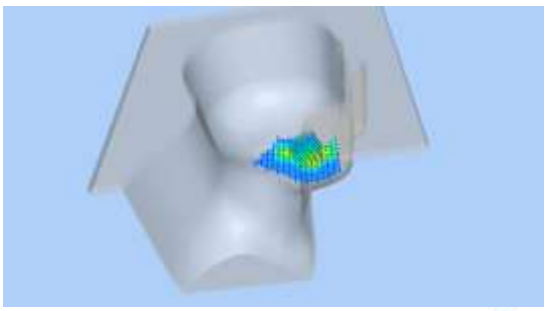
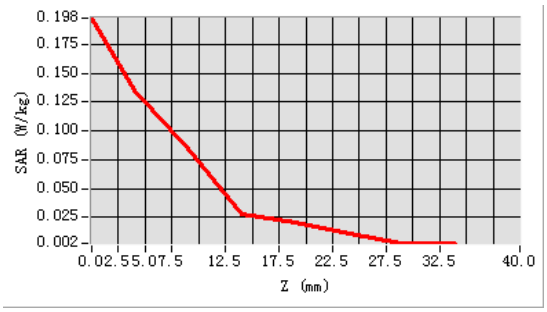
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 47: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-2.60

Maximum location: X=-58.00, Y=-15.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.065370
SAR 1g (W/Kg)	0.125703

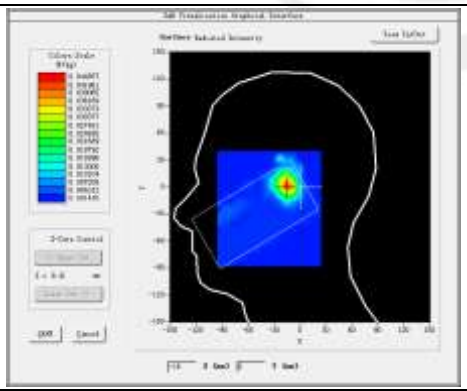
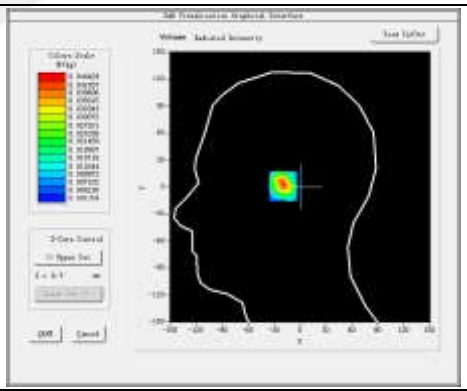
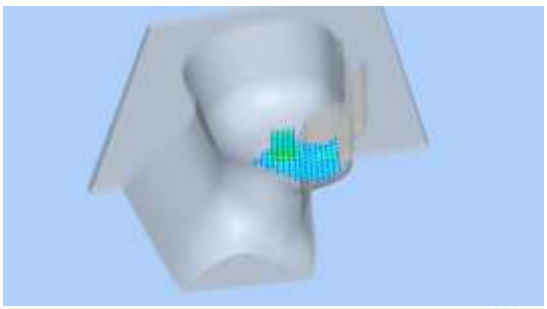
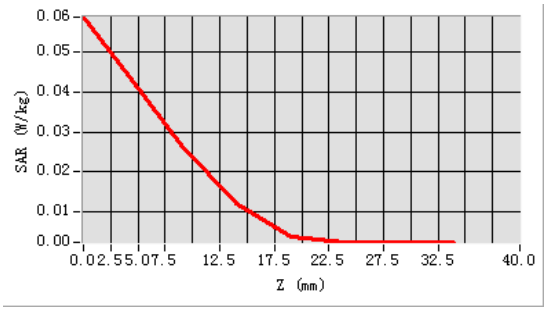
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 48: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-2.59

Maximum location: X=-15.00, Y=1.00
SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.017195
SAR 1g (W/Kg)	0.039588

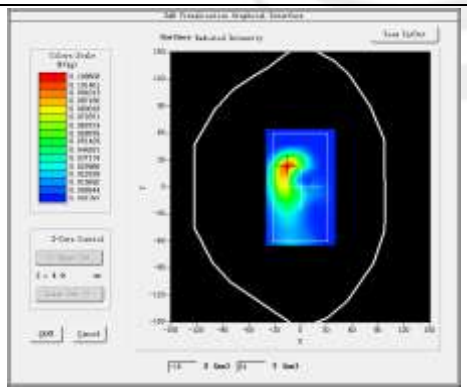
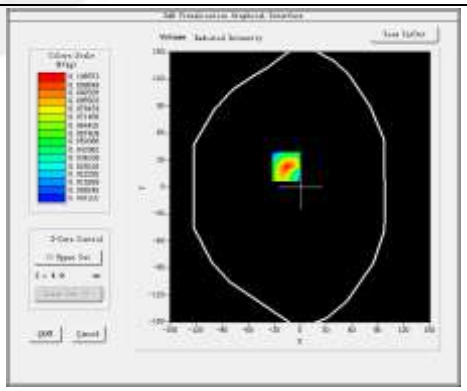
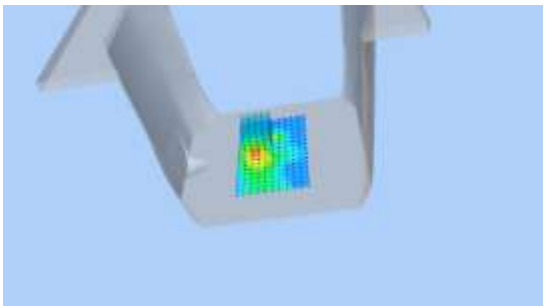
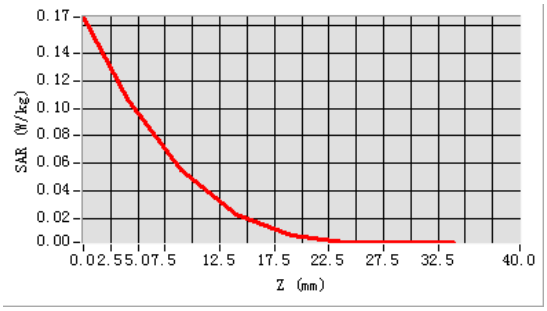
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 49: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.60

Maximum location: X=-16.00, Y=23.00
SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.043947
SAR 1g (W/Kg)	0.095452

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

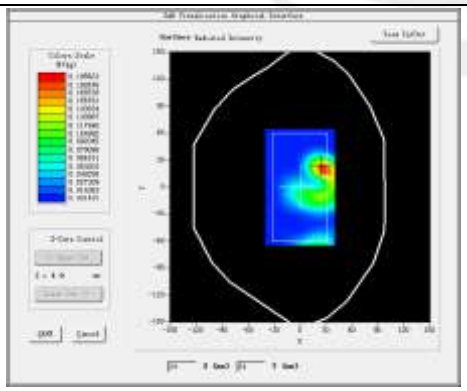
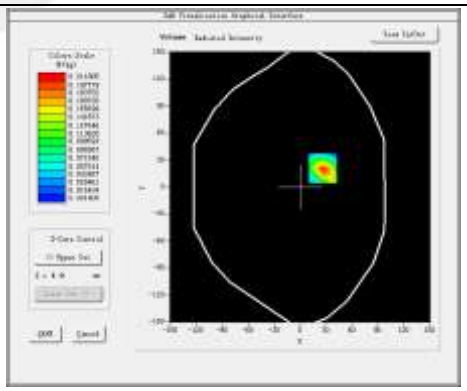
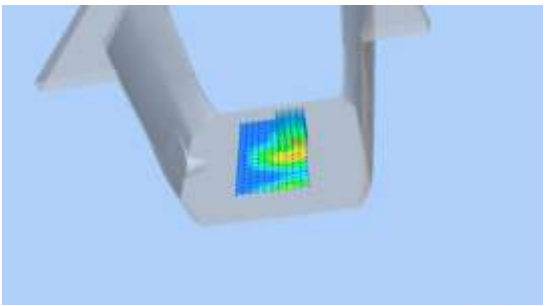
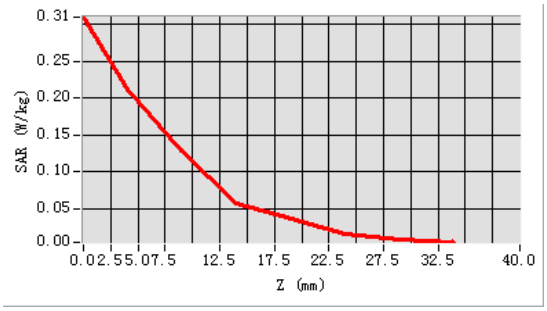
Plot 50: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-3.65

Maximum location: X=26.00, Y=21.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.094135
SAR 1g (W/Kg)	0.196831

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

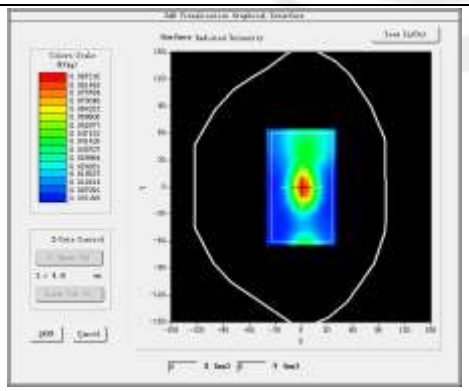
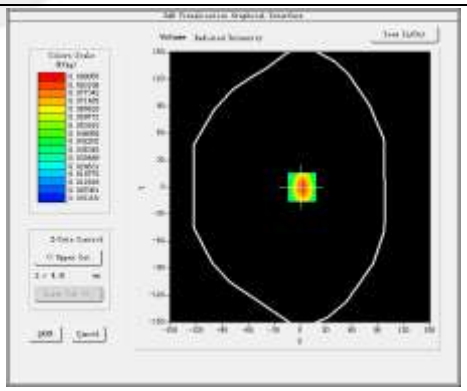
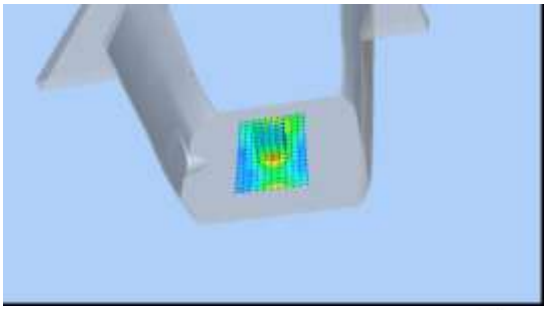
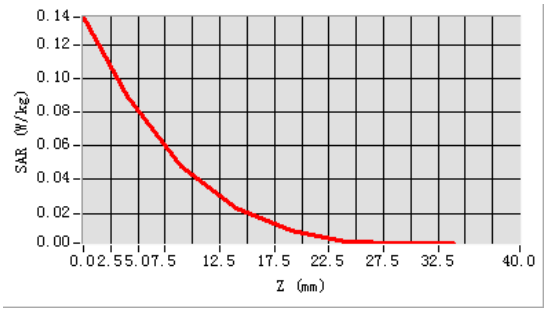
Plot 51: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	2.13

Maximum location: X=6.00, Y=10.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.038734
SAR 1g (W/Kg)	0.079313

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

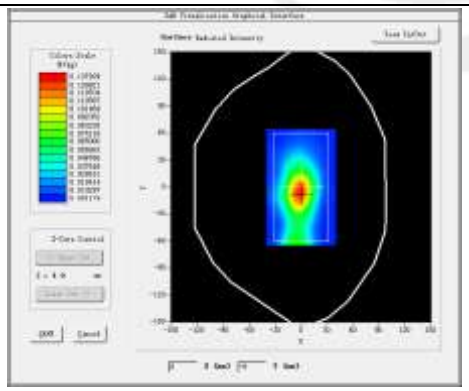
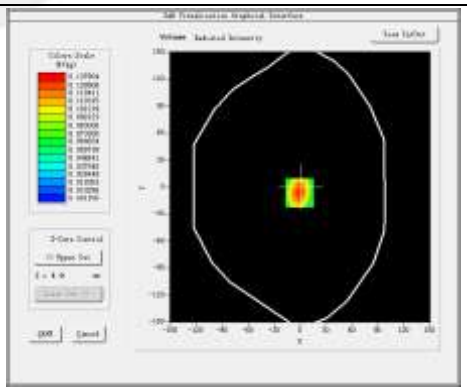
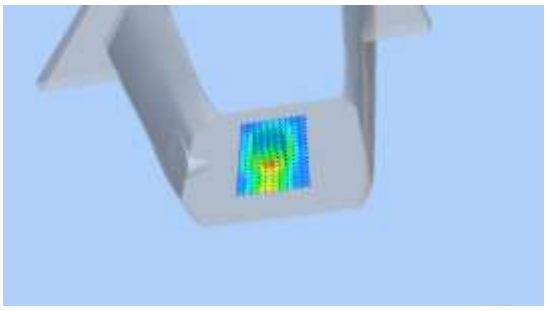
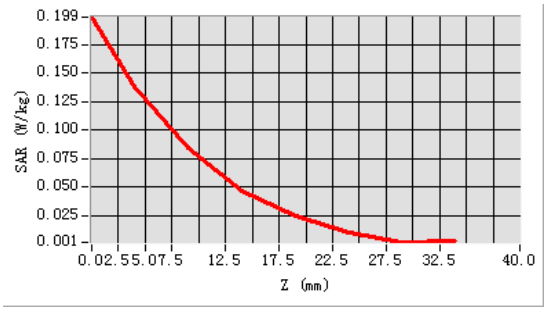
Plot 52: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-3.46

Maximum location: X=-1.00, Y=-6.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.069975
SAR 1g (W/Kg)	0.129703

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

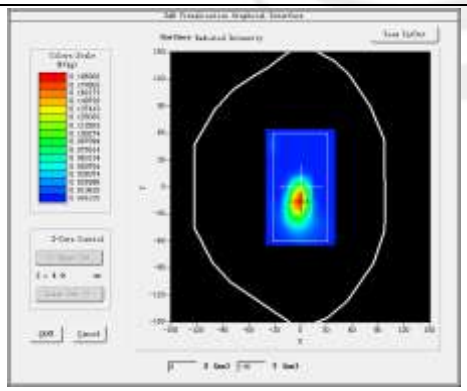
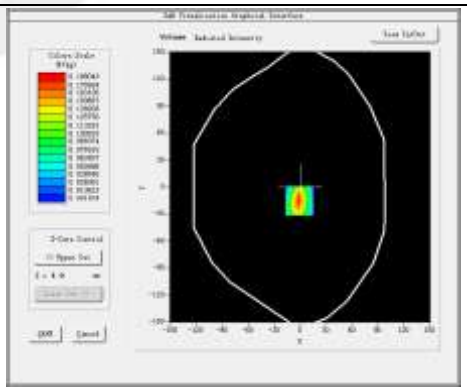
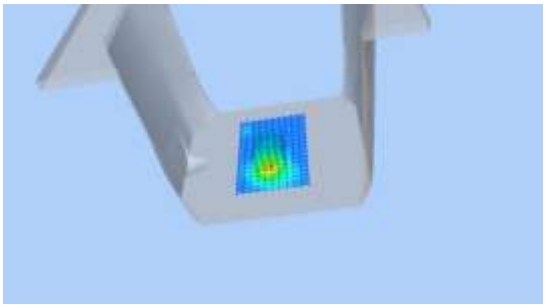
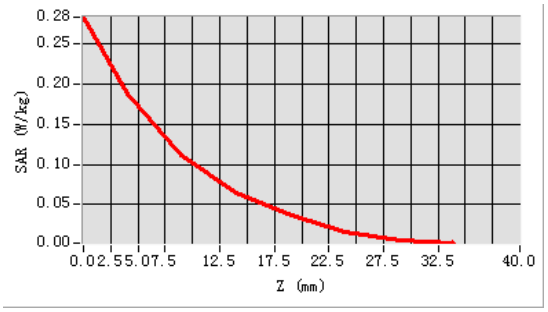
Plot 53: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1859.5
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-2.39

Maximum location: X=-1.00, Y=-15.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.085297
SAR 1g (W/Kg)	0.172090

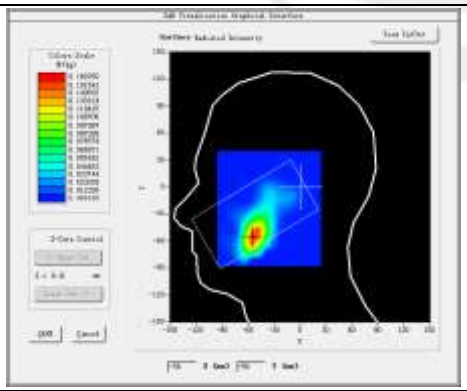
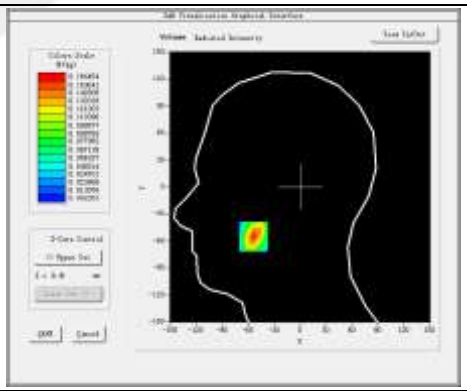
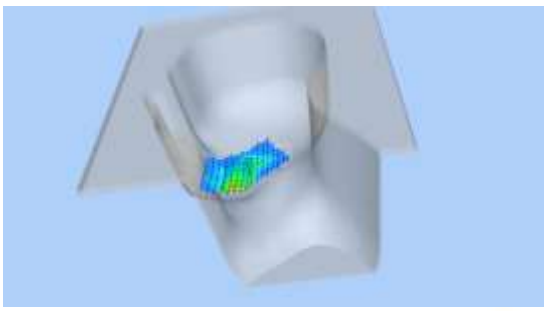
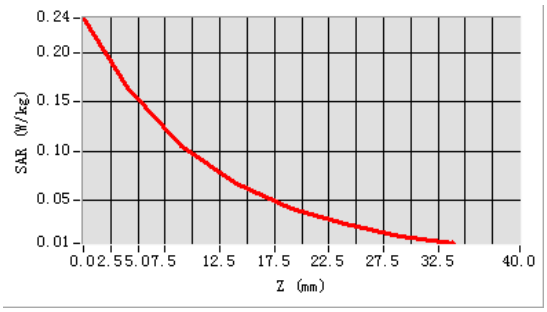
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 54: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-2.60

Maximum location: X=-54.00, Y=-55.00
SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.083128
SAR 1g (W/Kg)	0.152932

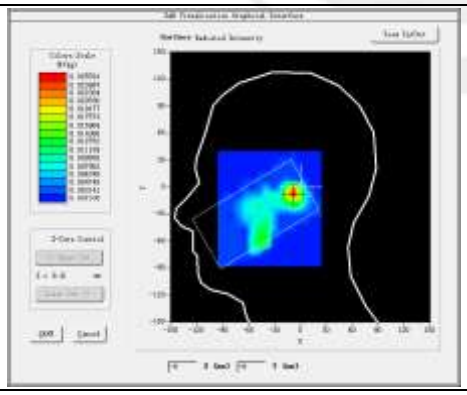
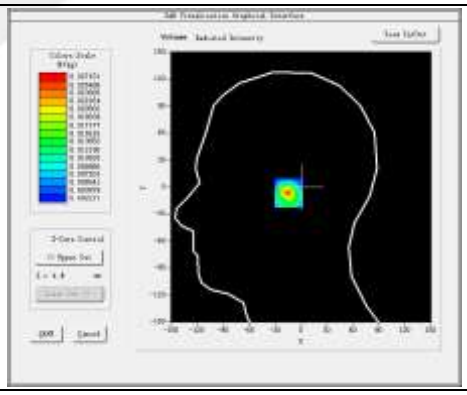
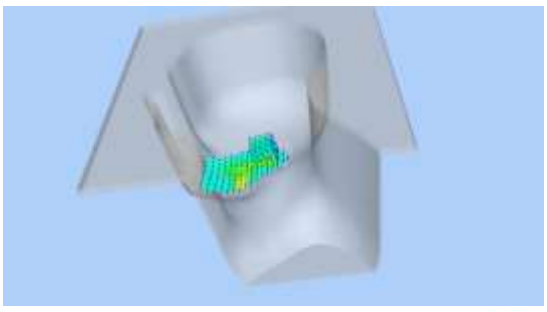
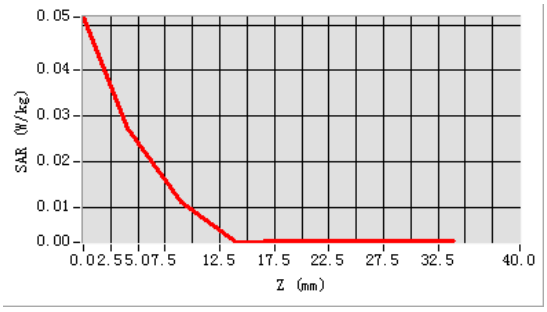
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 55: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-2.23

Maximum location: X=-8.00, Y=-6.00
SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.009658
SAR 1g (W/Kg)	0.024865

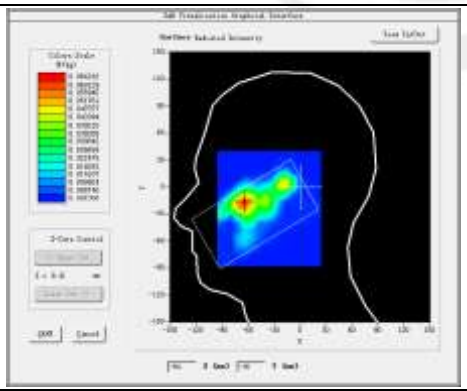
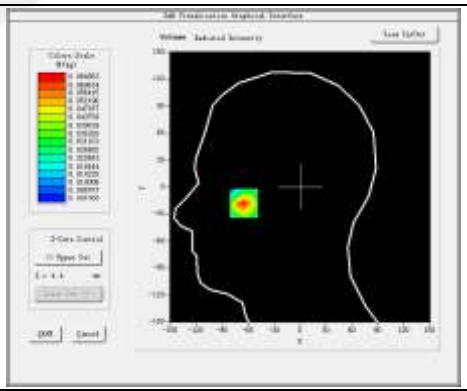
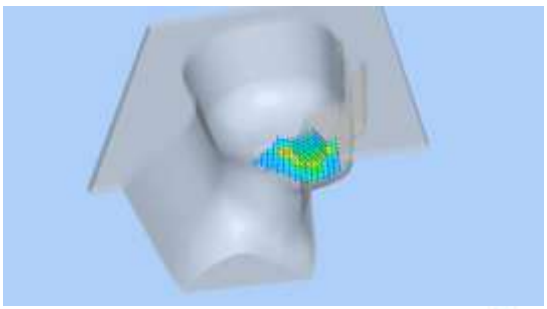
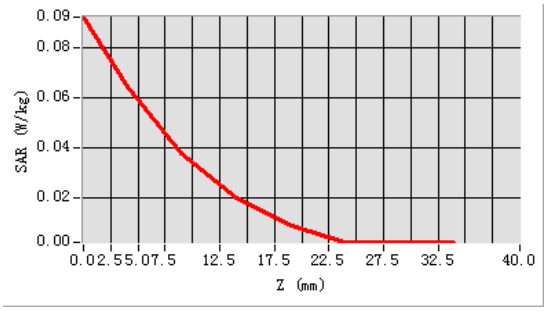
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 56: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	2.80

Maximum location: X=-65.00, Y=-17.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.029535
SAR 1g (W/Kg)	0.058626

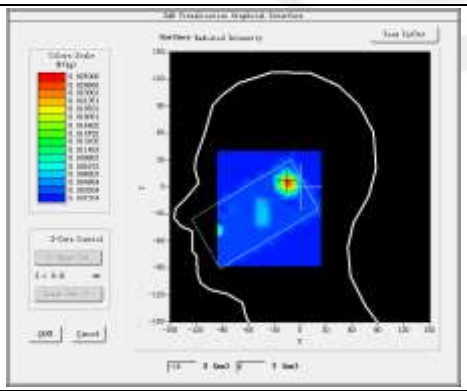
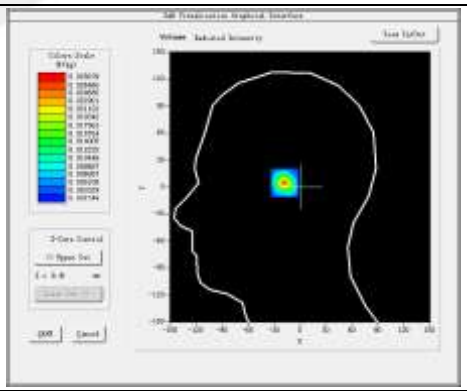
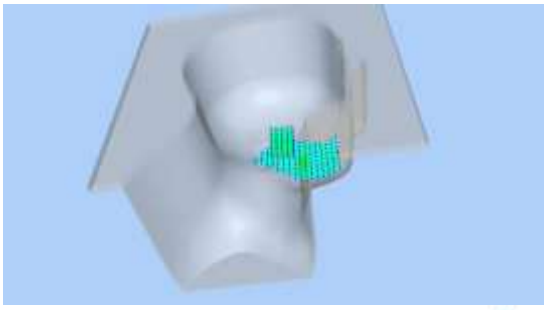
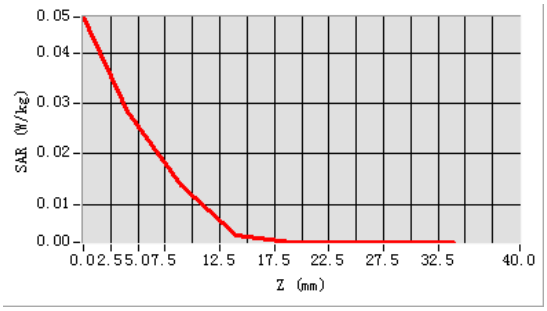
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 57: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-2.64

Maximum location: X=-14.00, Y=5.00
SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.009560
SAR 1g (W/Kg)	0.024776

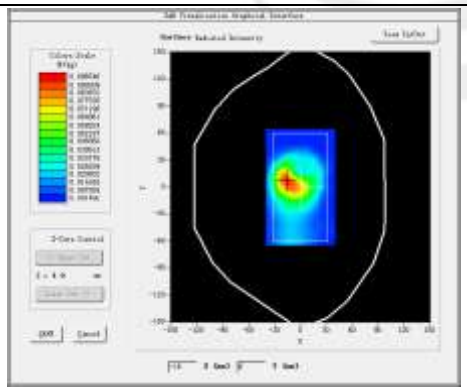
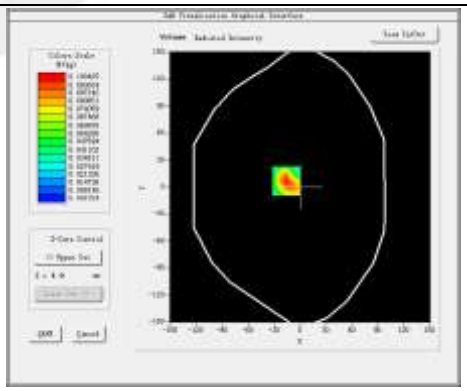
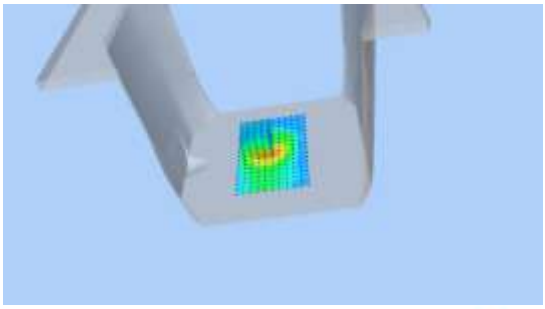
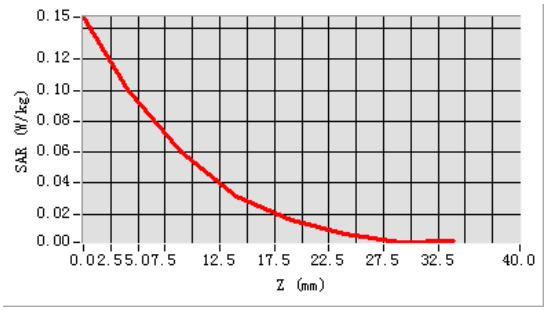
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 58: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-3.26

Maximum location: X=-16.00, Y=7.00
SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.048829
SAR 1g (W/Kg)	0.093558

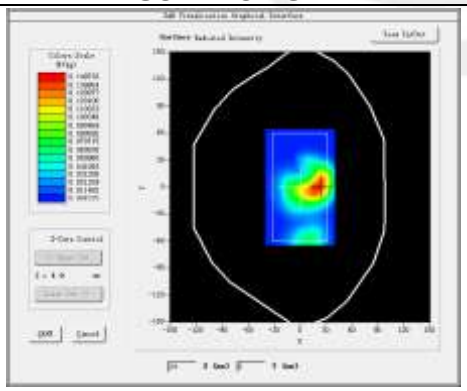
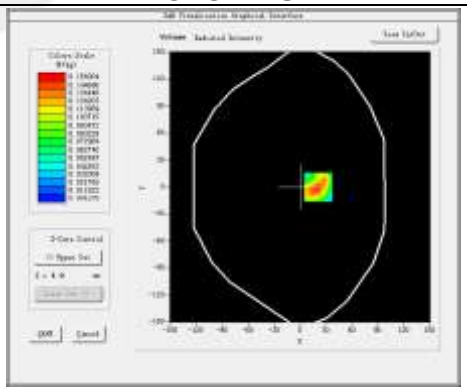
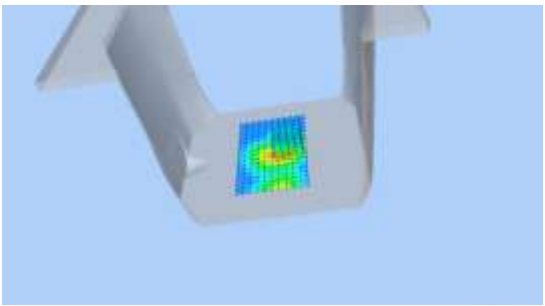
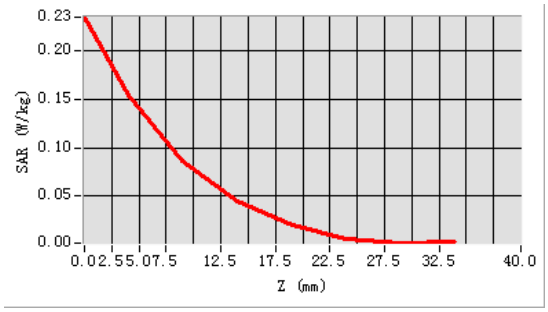
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 59: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-1.84

Maximum location: X=21.00, Y=0.00
SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.072812
SAR 1g (W/Kg)	0.143898

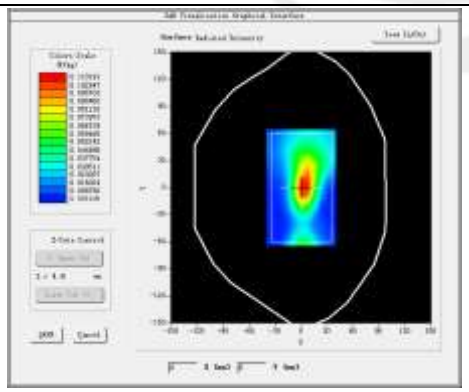
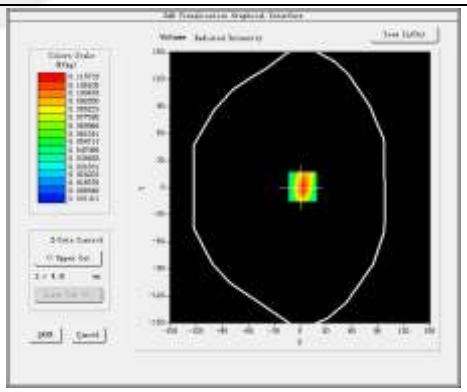
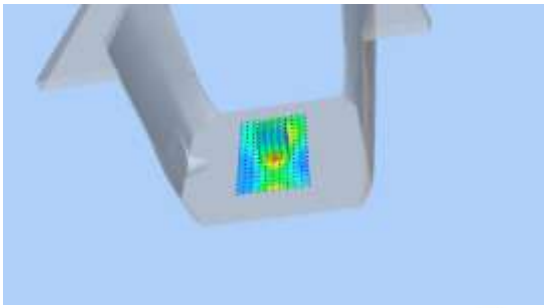
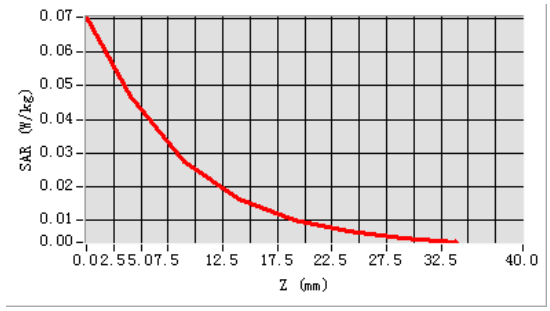
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 60: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	0.28

Maximum location: X=6.00, Y=2.00
SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.031964
SAR 1g (W/Kg)	0.051349

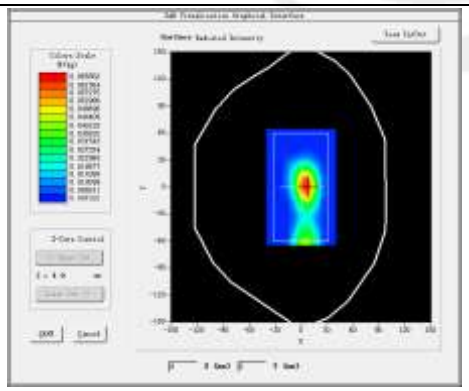
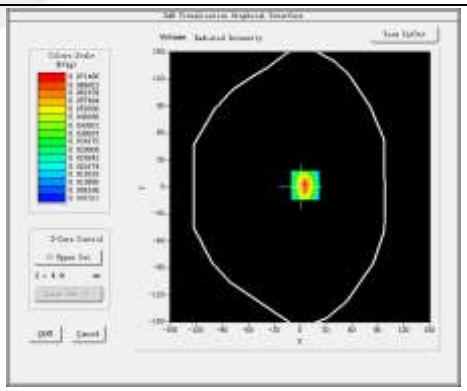
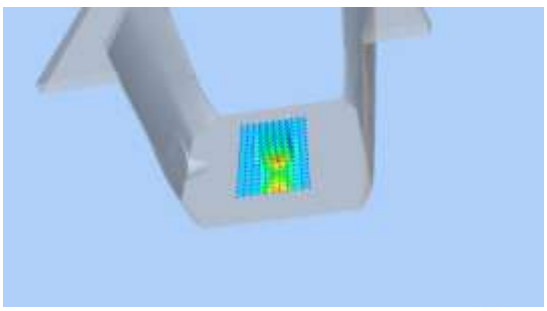
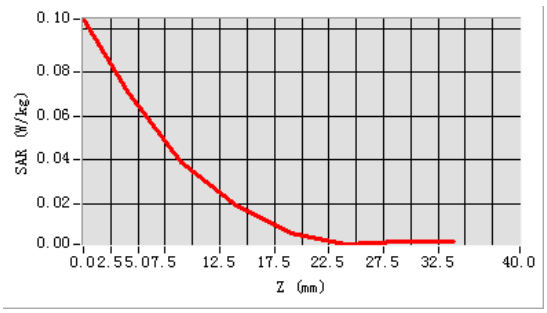
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 61: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 4 (RB 50)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-4.72

Maximum location: X=60.00, Y=2.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.030376
SAR 1g (W/Kg)	0.063042

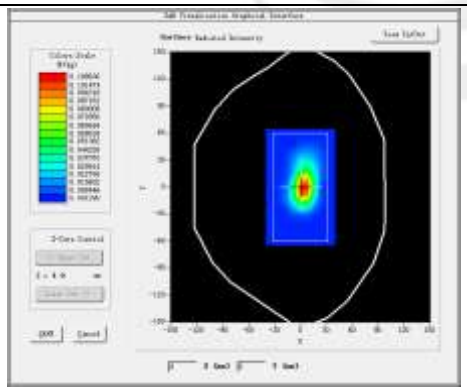
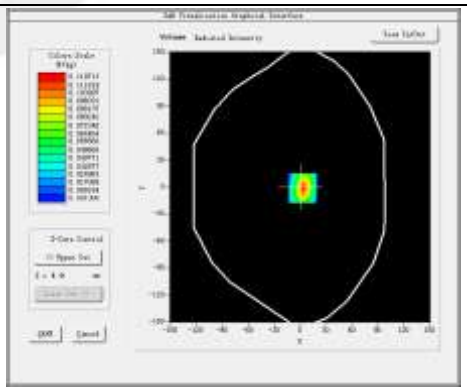
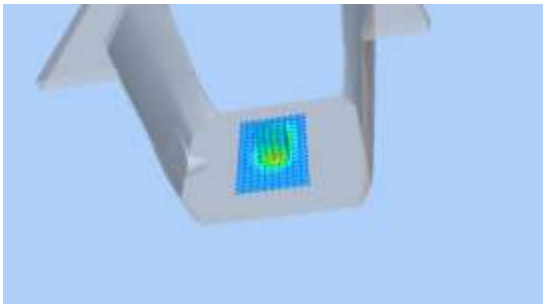
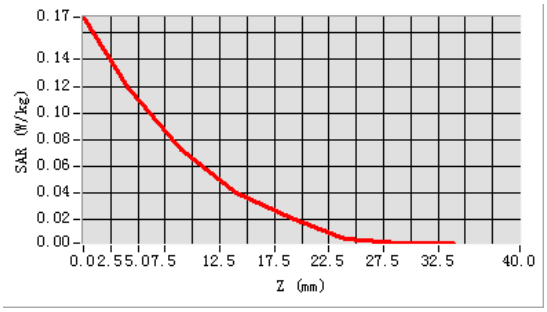
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 62: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-1.77

Maximum location: X=3.00, Y=-1.00
SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.051407
SAR 1g (W/Kg)	0.107704

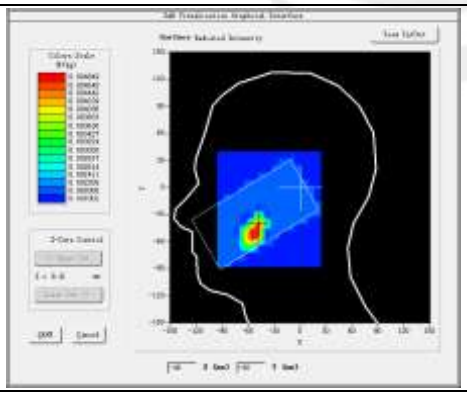
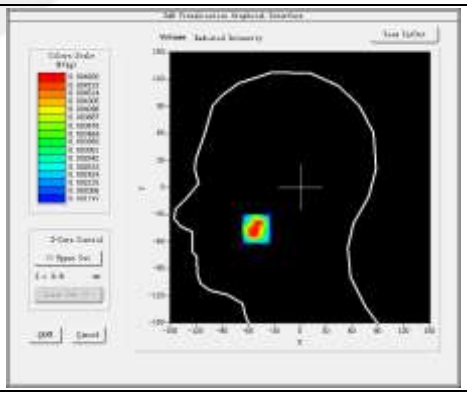
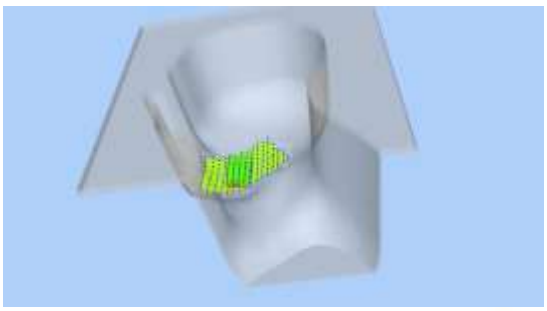
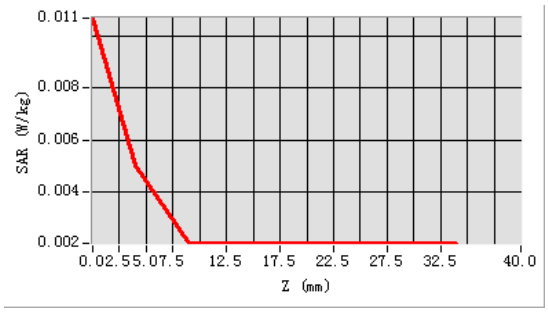
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 63: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	0.44

Maximum location: X=-51.00, Y=-46.00
SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.003112
SAR 1g (W/Kg)	0.006858

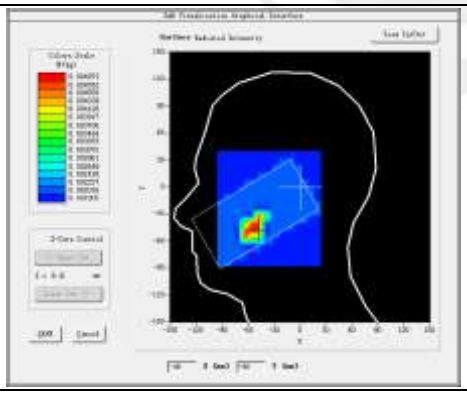
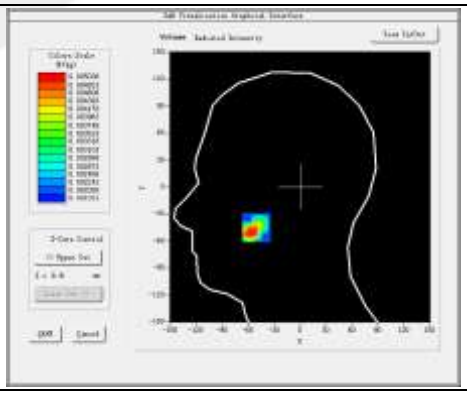
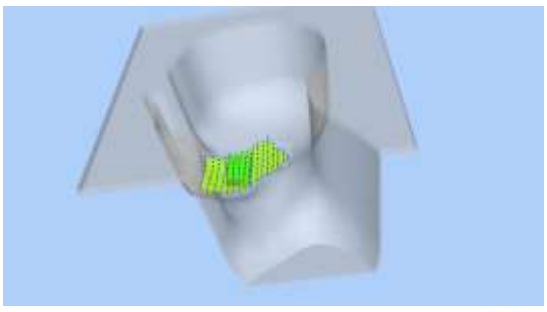
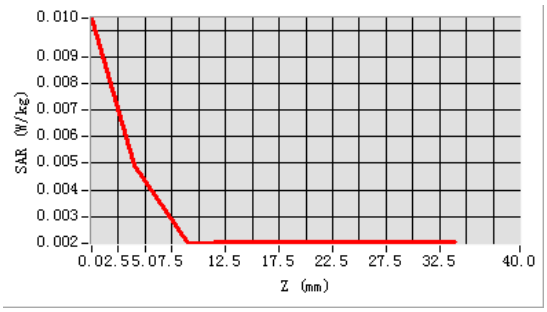
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 64: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-0.29

Maximum location: X=-51.00, Y=-45.00
SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.002976
SAR 1g (W/Kg)	0.005219

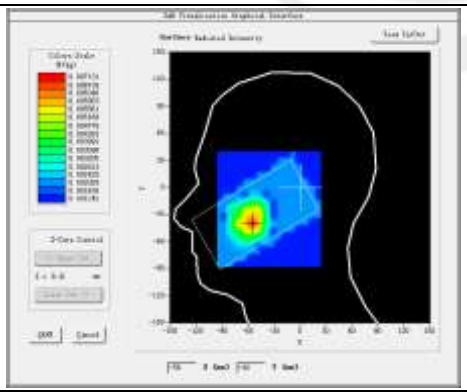
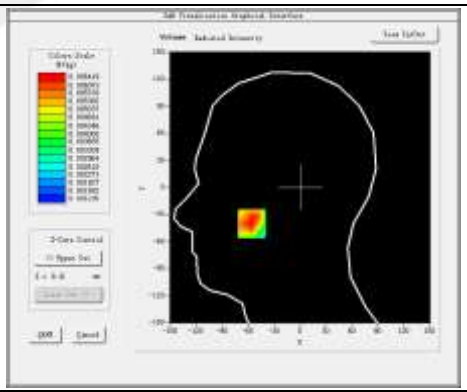
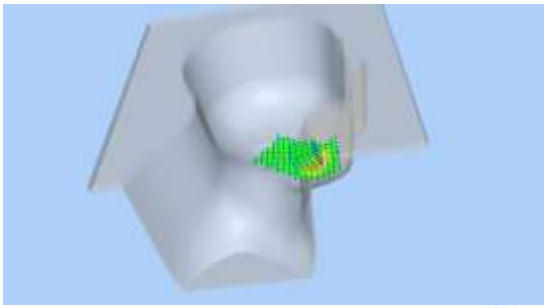
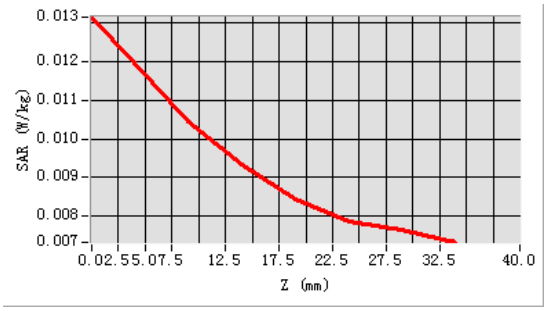
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 65: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-0.21

Maximum location: X=-56.00, Y=-40.00
SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.004005
SAR 1g (W/Kg)	0.006456

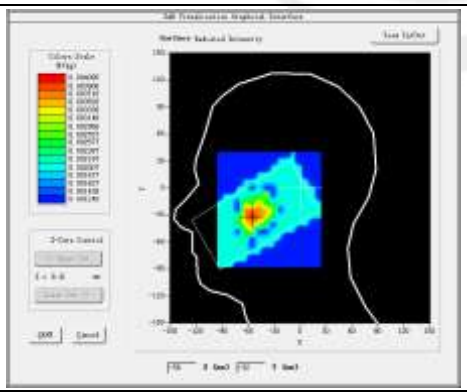
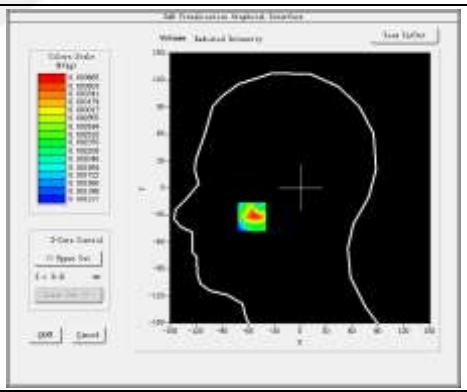
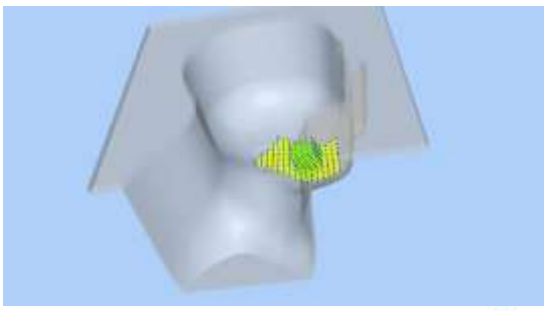
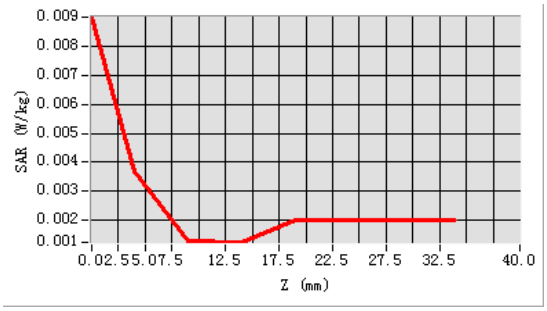
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 66: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	2.27

Maximum location: X=-56.00, Y=-32.00
SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.002487
SAR 1g (W/Kg)	0.004062

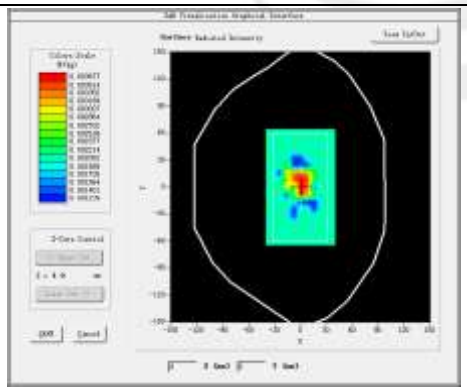
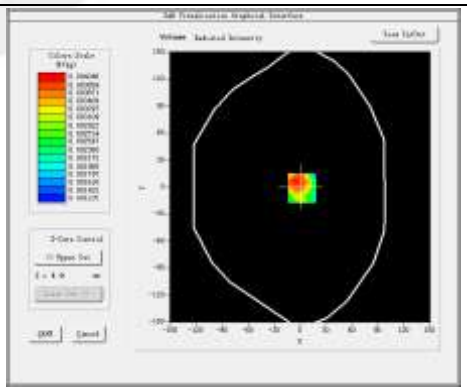
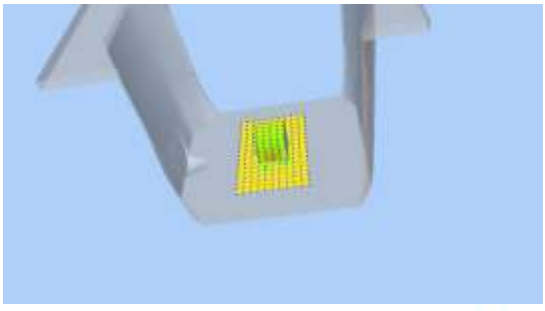
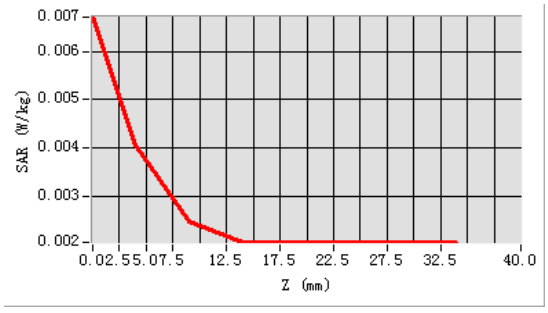
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 67: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	2.40

Maximum location: X=2.00, Y=-1.00
SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.002830
SAR 1g (W/Kg)	0.004228

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

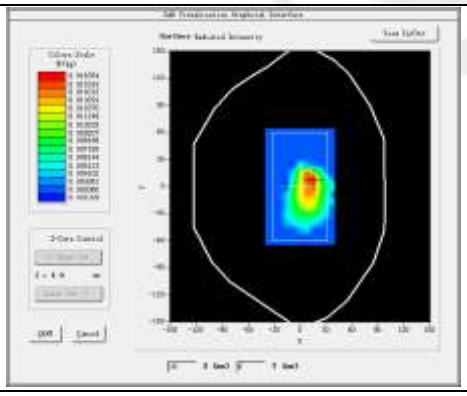
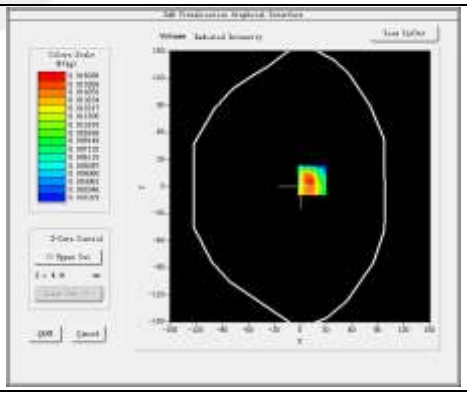
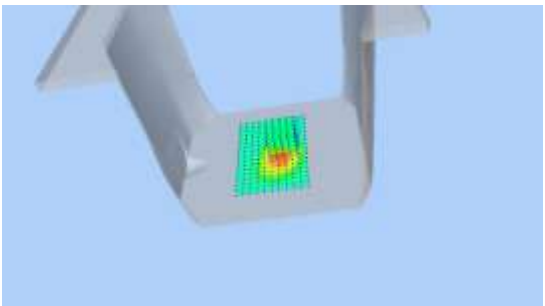
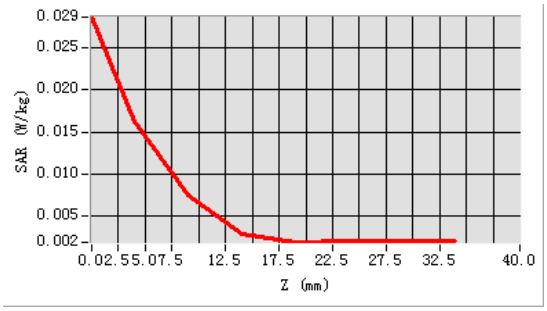
Plot 68: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-1.45

Maximum location: X=14.00, Y=7.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.007859
SAR 1g (W/Kg)	0.016293

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

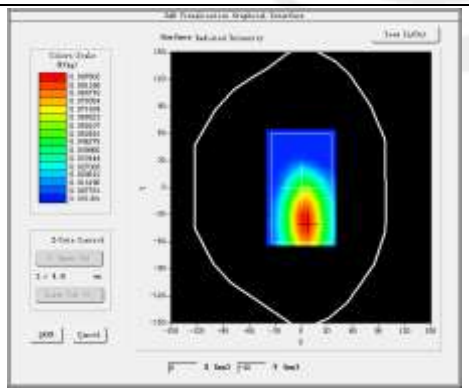
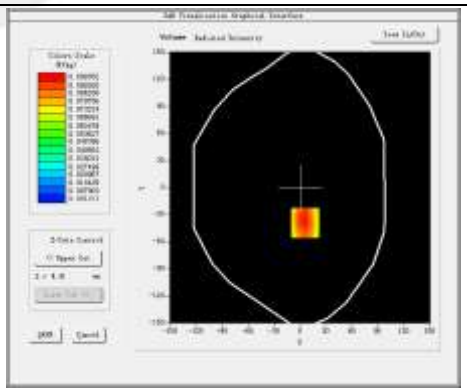
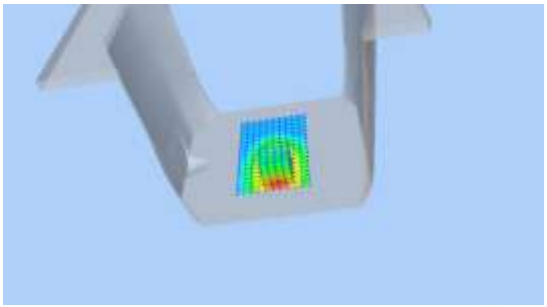
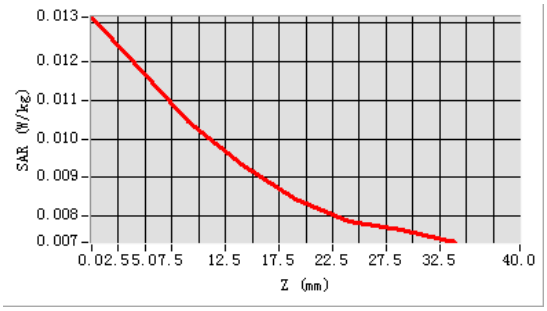
Plot 69: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	0.50

Maximum location: X=2.00, Y=-30.00

SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.002793
SAR 1g (W/Kg)	0.005137

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

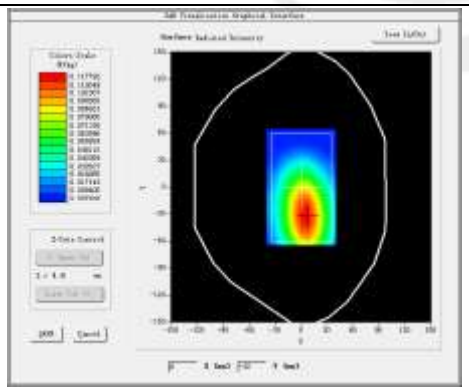
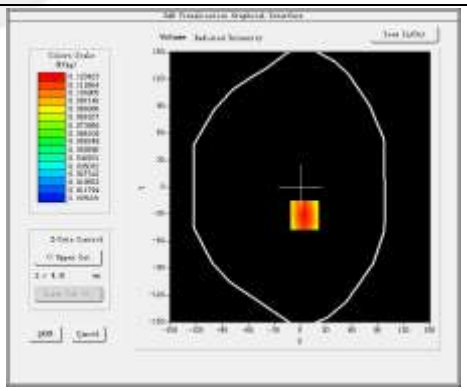
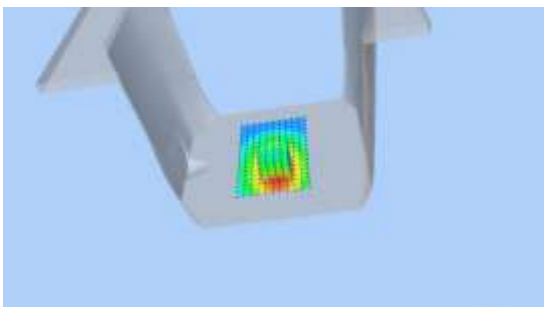
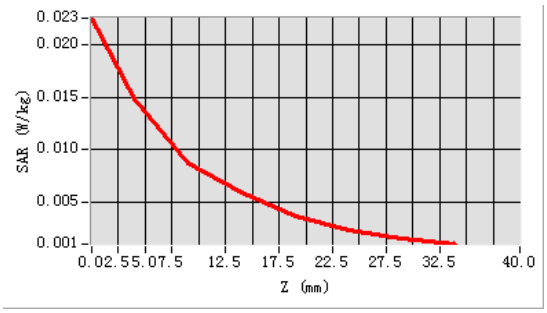
Plot 70: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-0.02

Maximum location: X=5.00, Y=-26.00

SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.007418
SAR 1g (W/Kg)	0.012193

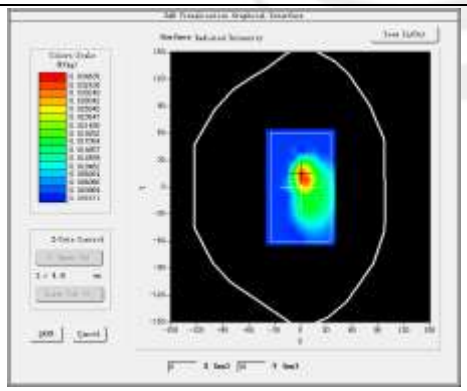
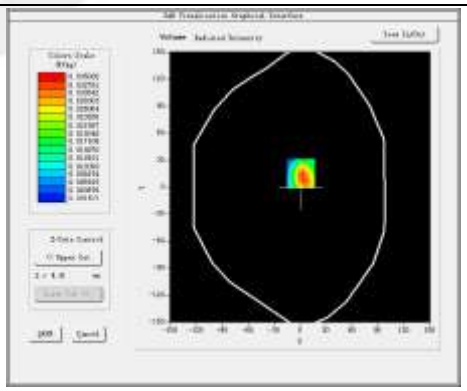
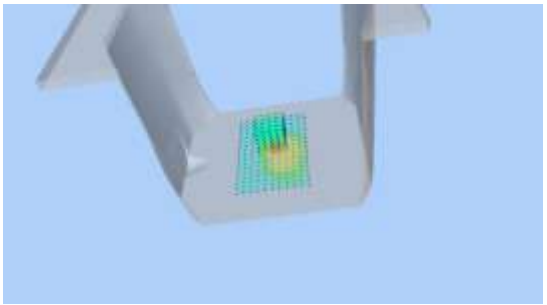
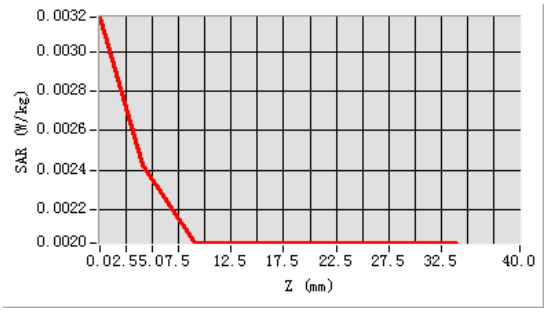
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 71: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 12 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2565
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	2.03

Maximum location: X=-8.00, Y=1.00
SAR Peak: 0.003 W/kg

SAR 10g (W/Kg)	0.001966
SAR 1g (W/Kg)	0.002228

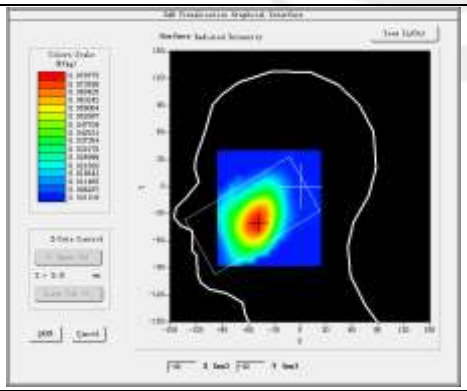
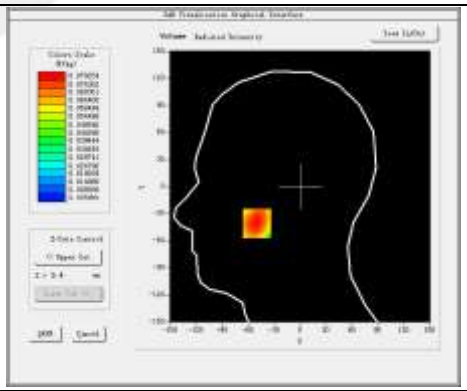
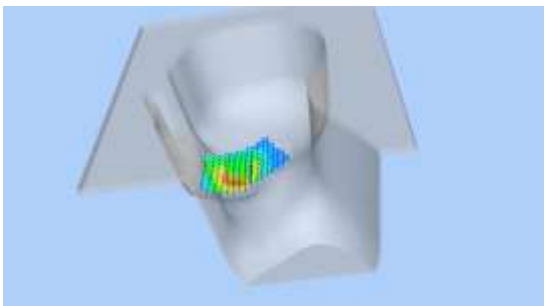
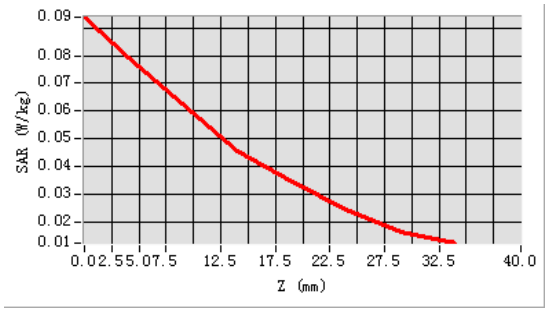
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 72: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-1.38

Maximum location: X=-53.00, Y=-43.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.052976
SAR 1g (W/Kg)	0.071497

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

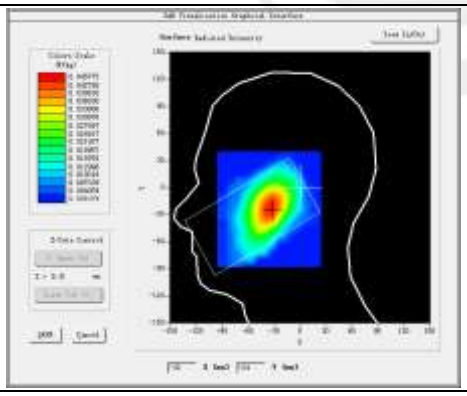
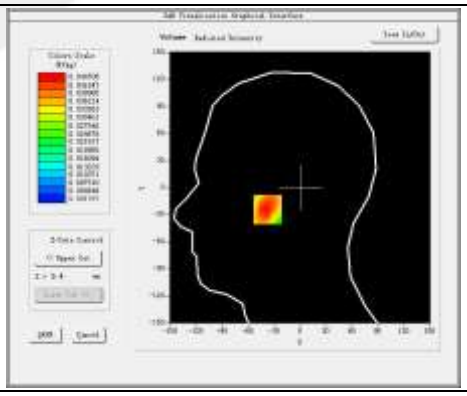
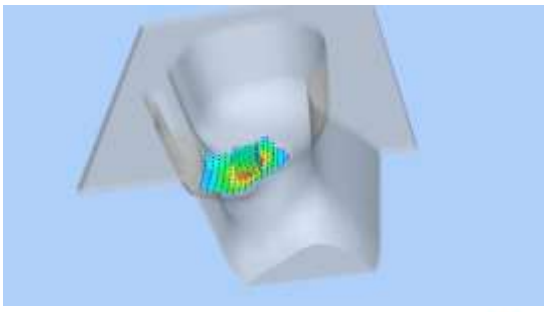
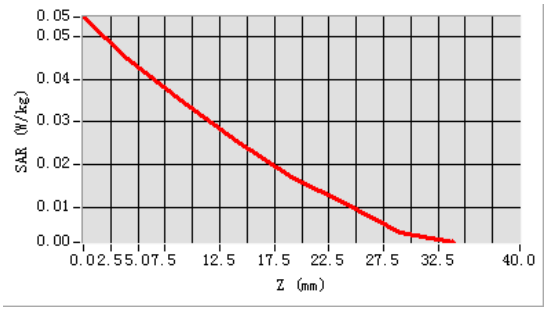
Plot 73: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-3.29

Maximum location: X=-30.00, Y=-21.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.026137
SAR 1g (W/Kg)	0.038762

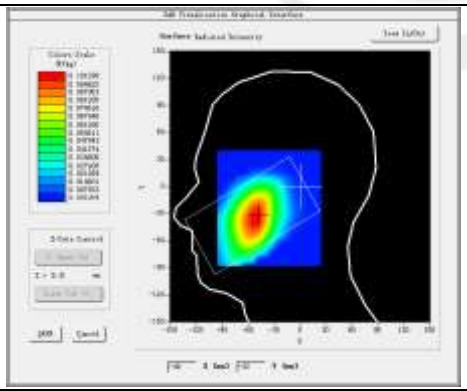
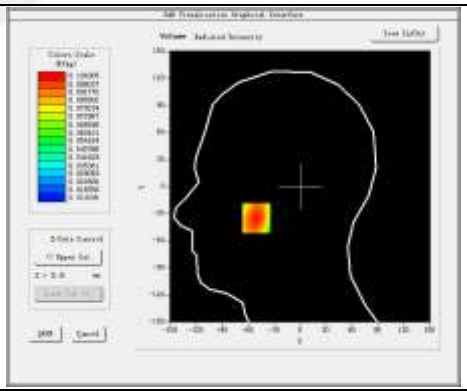
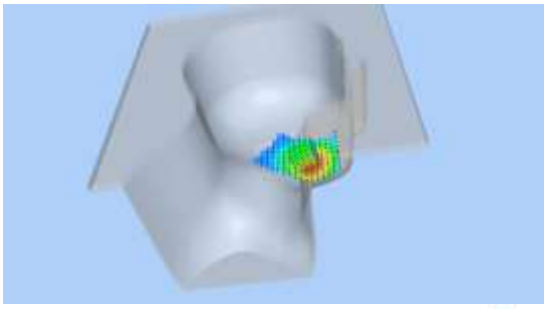
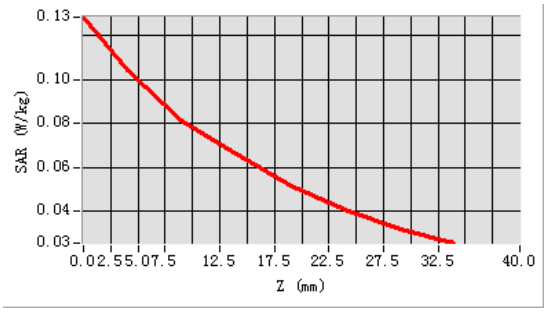
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 74: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-2.65

Maximum location: X=-46.00, Y=-31.00
SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.061852
SAR 1g (W/Kg)	0.101834

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

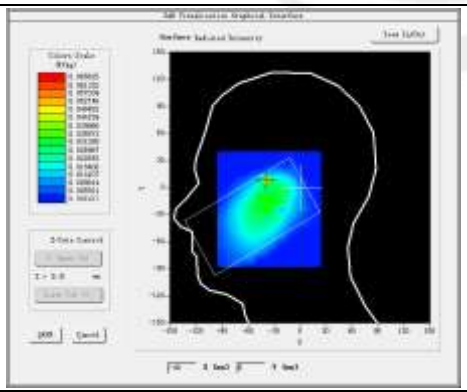
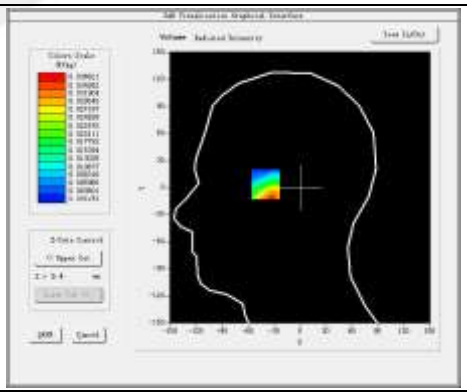
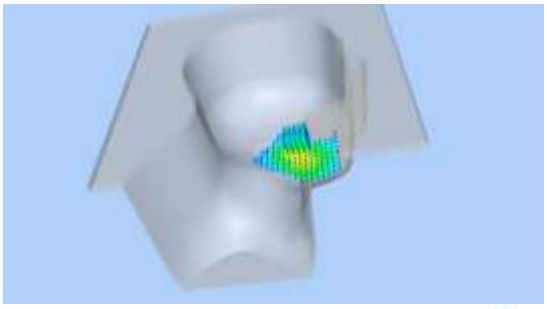
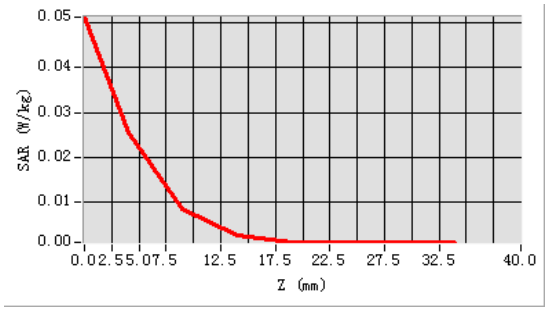
Plot 75: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-3.22

Maximum location: X=-41.00, Y=6.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.013825
SAR 1g (W/Kg)	0.030134

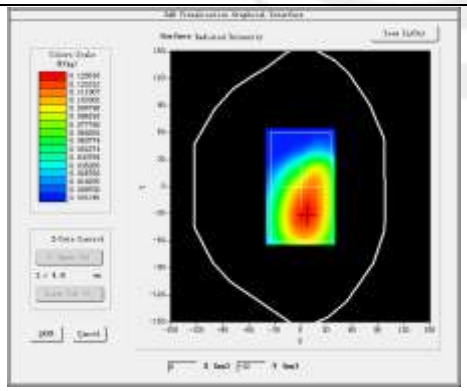
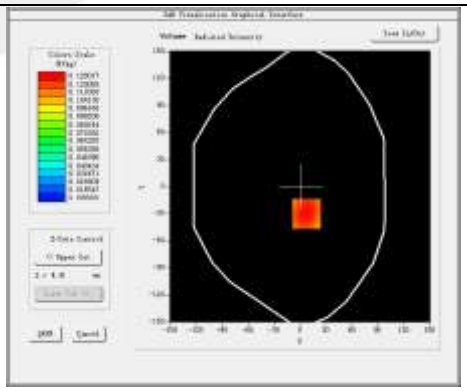
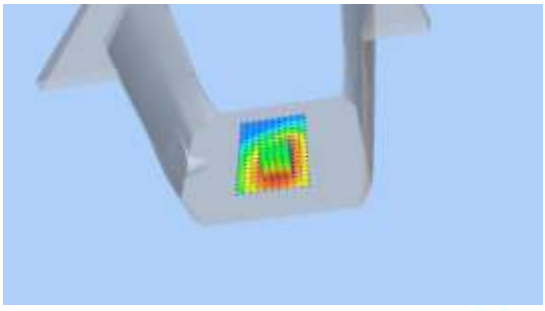
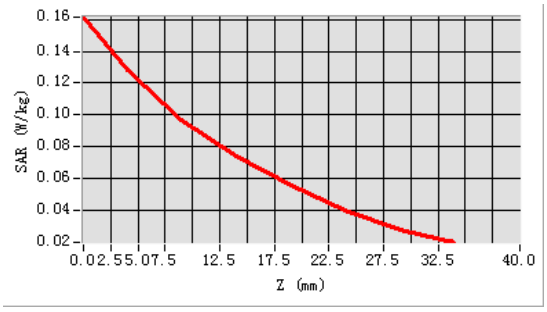
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 76: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-2.83

Maximum location: X=6.00, Y=-26.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.084634
SAR 1g (W/Kg)	0.119733

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

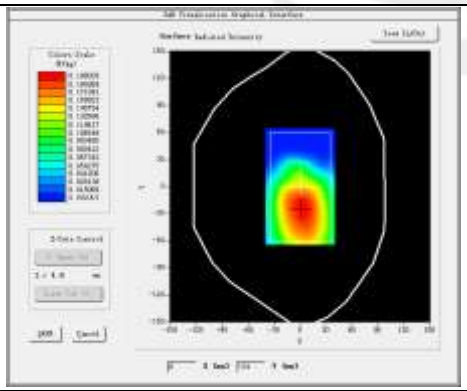
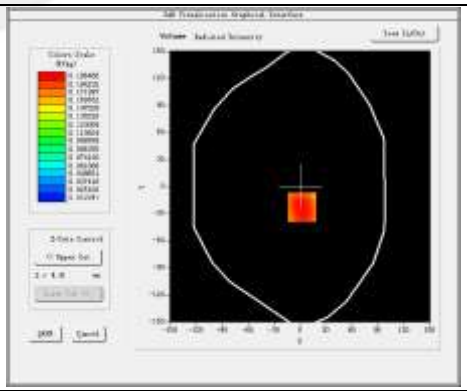
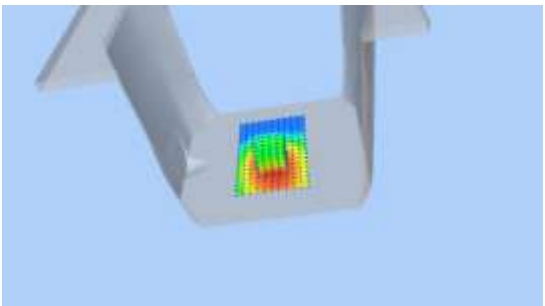
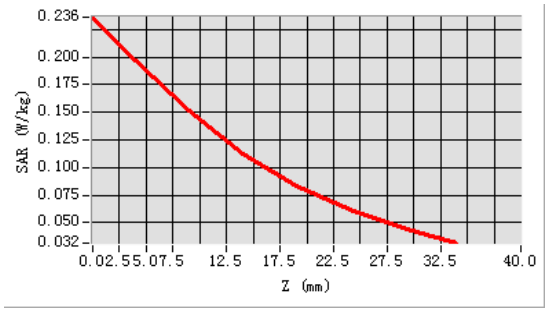
Plot 77: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	2.19

Maximum location: X=10.00, Y=13.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.121834
SAR 1g (W/Kg)	0.185006

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

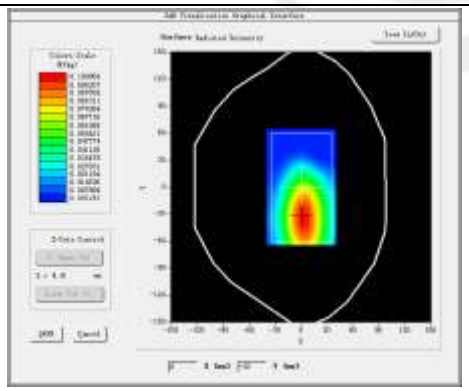
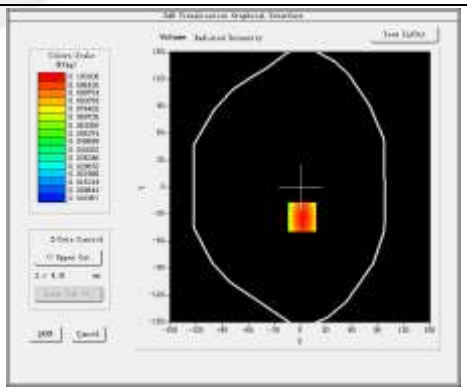
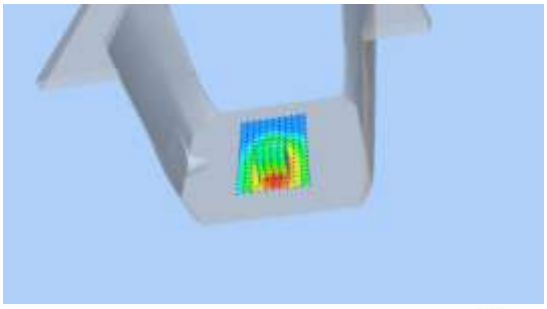
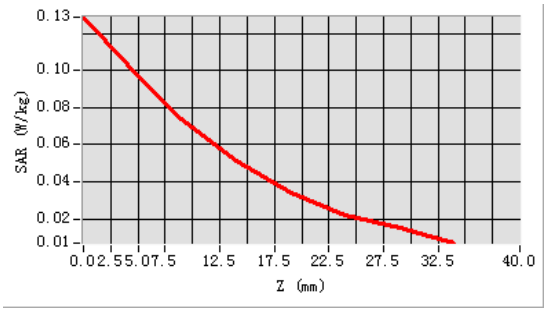
Plot 78: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	2.65

Maximum location: X=3.00, Y=-26.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.065934
SAR 1g (W/Kg)	0.098463

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

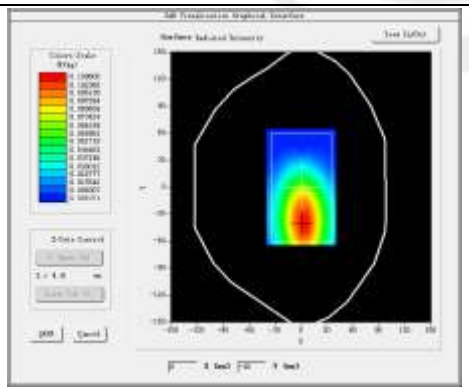
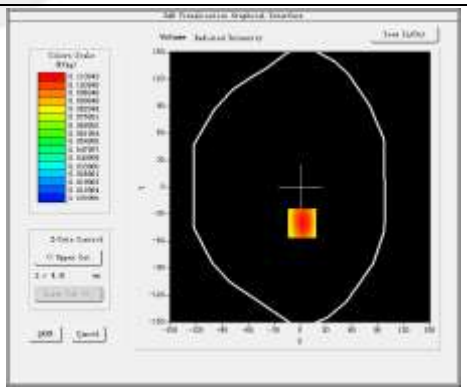
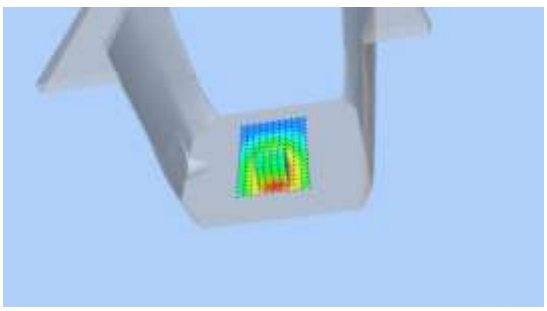
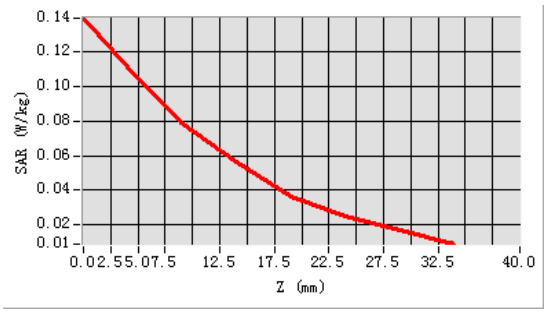
Plot 79: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	2.03

Maximum location: X=9.00, Y=-38.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.092534
SAR 1g (W/Kg)	0.121675

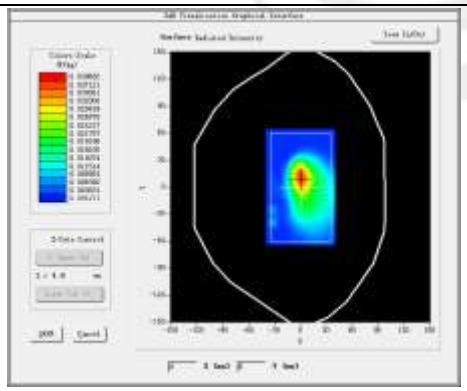
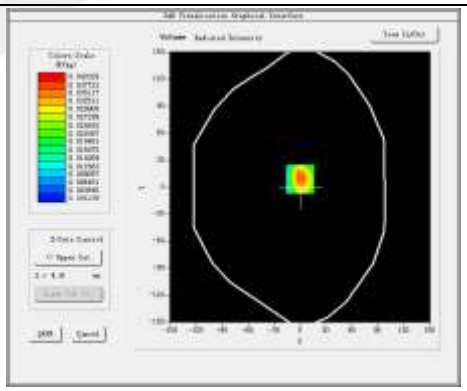
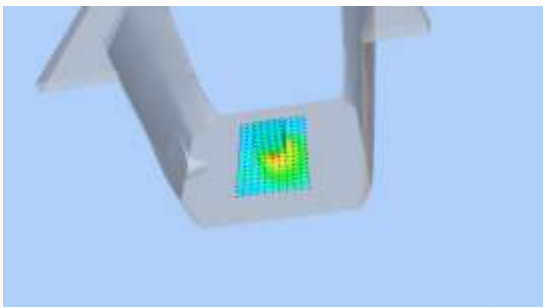
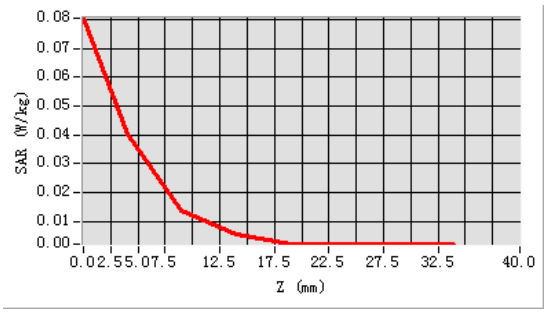
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Z Axis Scan**
	

Plot 80: DUT: 4G MOBILE PHONE; EUT Model: U4051

Test Data	2016-01-13
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	2.48

Maximum location: X=1.00, Y=0.00
SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.018167
SAR 1g (W/Kg)	0.041934

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

Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※