



FCC SAR TEST REPORT

Report No: STS1506010H01

Issued for

Corporativo Lanix S.A.de C.V.

Carretera Internacional Hermosillo - Nogales Km 8.5
Hermosillo, Sonora, México

Product Name:	smart phone
Brand Name:	LANIX
Model No.:	Ilium L200
Series Model:	N/A
FCC ID:	ZC4L200
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. SAR (1g):	Head:1.267 W/kg
	Body:1.344 W/kg

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Test Report Certification

Applicant's name : Corporativo Lanix S.A.de C.V.
Address : Carretera Internacional Hermosillo - Nogales Km 8.5 Hermosillo, Sonora, México
Manufacture's Name..... : AMER MOBILE CO.,LIMITED
Address : Room A30, 9th floor, Silvercorp International Tower No 707-713, Nathan Road, mongkok, Kowloon, Hong Kong

Product description

Product name : smart phone
Trademark : LANIX
Model and/or type reference : Ilium L200
Serial 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 Jun. 2015
Date of Issue..... : 11 Jun. 2015
Test Result..... : **Pass**

Testing Engineer : Allen Chen
 (Allen Chen)

Technical Manager : John Zou
 (John Zou)

Authorized Signatory : Bovey Yang
 (Bovey Yang)





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1. General Information

1.1 EUT Description

Equipment	smart phone
Brand Name	LANIX
Model No.	Ilium L200
Serial Model	N/A
FCC ID	ZC4L200
Model Difference	N/A
Adapter	Input: AC100-240V,150m A, 50/60 Hz Output: DC 5V, 500mA
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 1600mAh
Hardware Version	WMDAb
Software Version	N/A
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 7:2502.5~2567.5MHz 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: 31.99 dBm GSM 1900: 28.53 dBm WCDMA Band II: 21.98 dBm WCDMA Band V: 22.81 dBm LTE Band 2: 20.75 dBm LTE Band 4: 21.56 dBm LTE Band 7: 21.23 dBm LTE Band 17: 22.87 dBm 802.11b: 11.06 dBm 802.11g: 10.65 dBm 802.11n(HT20): 10.07 dBm 802.11n(HT40): 18.79 dBm Bluetooth: 0.93 dBm
Max. Reported SAR(1g):	Head: GSM 850: 0.373 W/kg GSM 1900: 0.295 W/kg WCDMA Band II: 0.513 W/kg WCDMA Band V: 0.399 W/kg LTE Band 2: 0.413 W/kg LTE Band 4: 1.267 W/kg LTE Band 7: 0.337 W/kg LTE Band 17: 0.149 W/kg WIFI: 0.285 W/kg Body: GSM 850: 0.341 W/kg GSM 1900: 0.321 W/kg WCDMA Band II: 0.722 W/kg WCDMA Band V: 0.507 W/kg LTE Band 2: 0.623 W/kg LTE Band 4: 1.344 W/kg LTE Band 7: 0.307 W/kg LTE Band 17: 0.197 W/kg WIFI: 0.150 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 (°C)	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 v05r02	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r03	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r01	RF Exposure Reporting
7	FCC KDB 941225 D01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r03	SAR for LTE Devices
9	FCC KDB 941225 D06 v02	Hotspot Mode SAR
10	FCC KDB 248227 D01 Wi-Fi SAR v02	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:

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

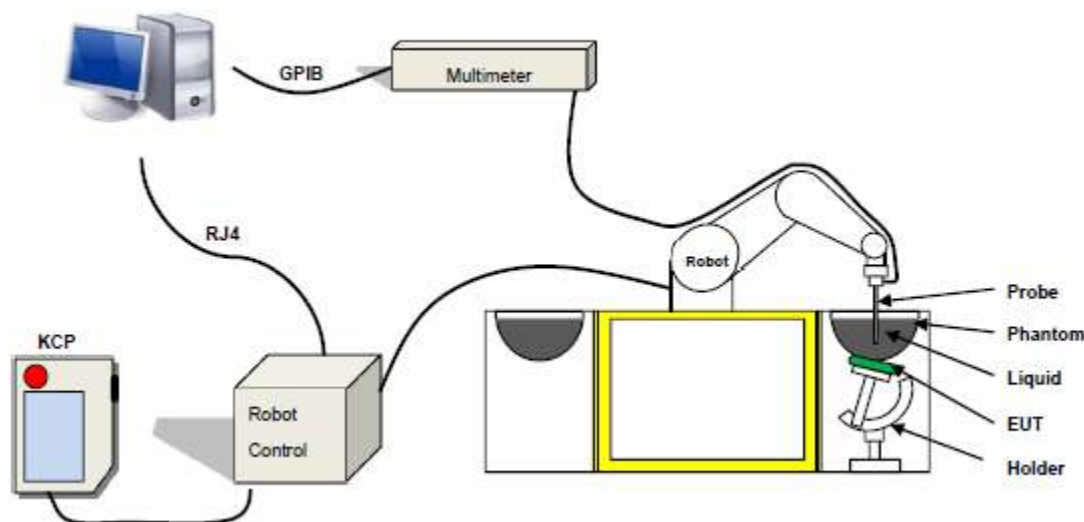
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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 surface normal line: less than 30°

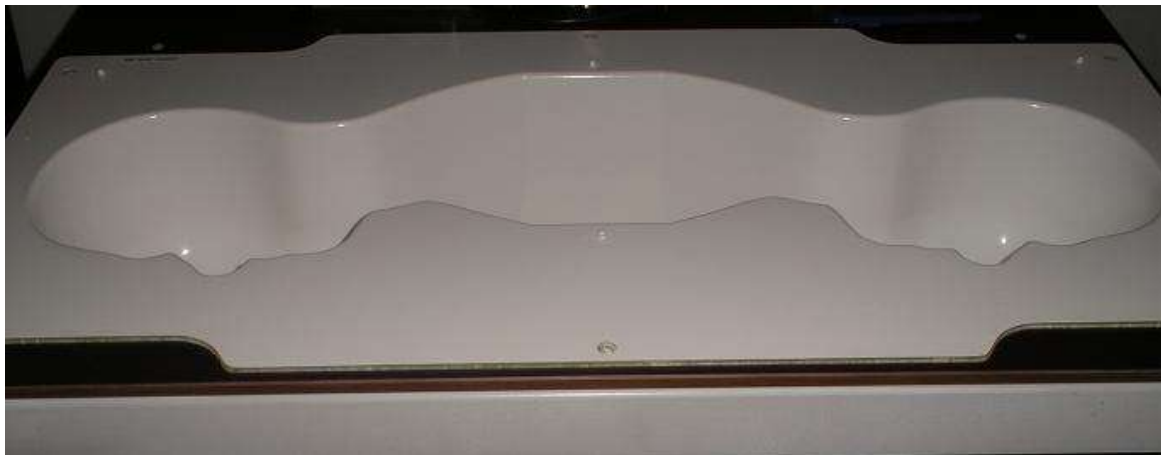


Figure 1 – Satimo COMOSAR Dosimetric E field Dipole

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

4.1 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: June 10, 2015 **Ambient condition:** Temperature 22.7°C Relative humidity: 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
750 MHz	22.30	Permittivity:	41.9	41.2	-1.67	±5
		Conductivity:	0.89	0.91	2.25	± 5
835 MHz	22.30	Permittivity:	41.50	41	-1.20	±5
		Conductivity:	0.90	0.86	-4.44	± 5
1800 MHz	22.30	Permittivity:	40.10	40.2	0.25	±5
		Conductivity:	1.37	1.31	-4.38	± 5
1900 MHz	22.30	Permittivity:	40.00	39.5	-1.25	± 5
		Conductivity:	1.40	1.43	2.14	± 5
2450 MHz	22.30	Permittivity:	39.2	39.18	-0.05	± 5
		Conductivity:	1.80	1.88	4.44	± 5
2600 MHz	22.30	Permittivity:	39.0	38.5	-1.28	± 5
		Conductivity:	1.96	1.92	-2.04	± 5



Body Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
750 MHz	22.30	Permittivity:	55.50	55.26	-0.43	± 5
		Conductivity:	0.96	0.91	-5.21	± 5
835 MHz	22.30	Permittivity:	55.20	54.7	-0.91	± 5
		Conductivity:	0.97	0.98	1.03	± 5
1800 MHz	22.30	Permittivity:	53.40	52.6	-1.50	± 5
		Conductivity:	1.49	1.38	-7.38	± 5
1900 MHz	22.30	Permittivity:	53.30	52.31	-1.86	± 5
		Conductivity:	1.52	1.50	-1.32	± 5
2450 MHz	22.30	Permittivity:	52.7	51.6	-2.09	± 5
		Conductivity:	1.95	1.93	-1.03	± 5
2600 MHz	22.30	Permittivity:	52.5	52.3	-0.38	± 5
		Conductivity:	2.16	2.12	-1.85	± 5

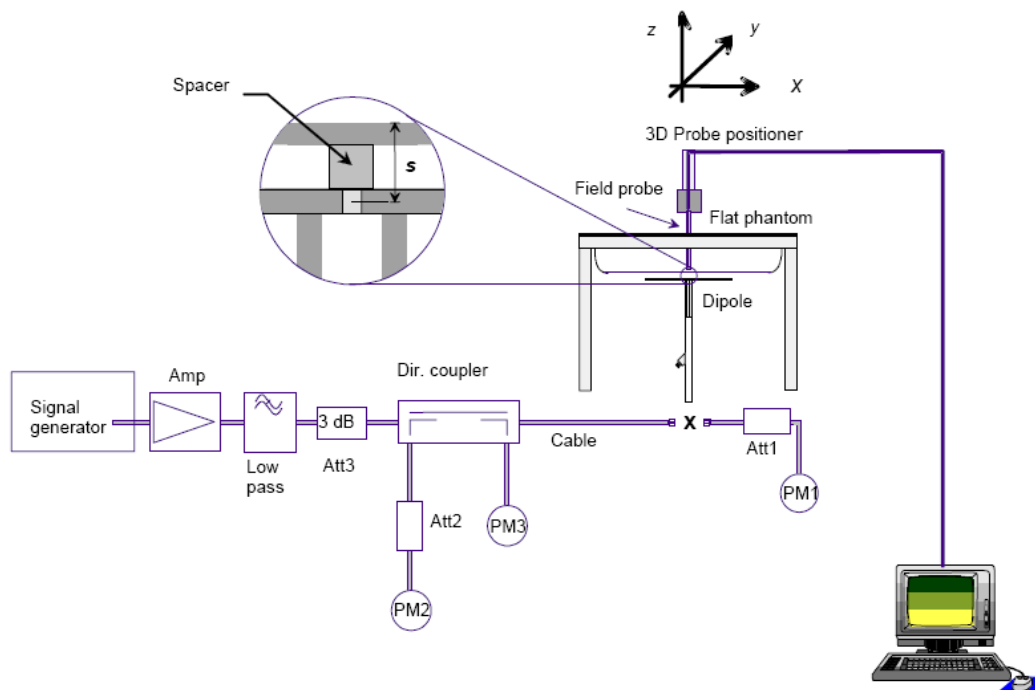


5. SAR System Validation

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	2015-06-08
750 Body	100	0.856	8.56	8.49	0.82	2015-06-08
835 Head	100	0.937	9.37	9.56	-1.99	2015-06-08
835 Body	100	0.947	9.47	9.56	-0.94	2015-06-08
1800 Head	100	3.76	37.6	38.4	-2.08	2015-06-08
1800 Body	100	3.88	38.8	38.4	1.04	2015-06-08
1900 Head	100	3.86	38.6	39.8	-3.02	2015-06-08
1900 Body	100	3.987	39.87	39.8	0.18	2015-06-08
2450 Head	100	5.593	55.93	52.4	6.74	2015-06-08
2450 Body	100	4.864	48.64	52.4	-7.18	2015-06-08
2600 Head	100	5.45	54.5	55.3	-1.45	2015-06-08
2600 Body	100	5.41	54.1	55.3	-2.17	2015-06-08

Note: The tolerance limit of System validation $\pm 10\%$.



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

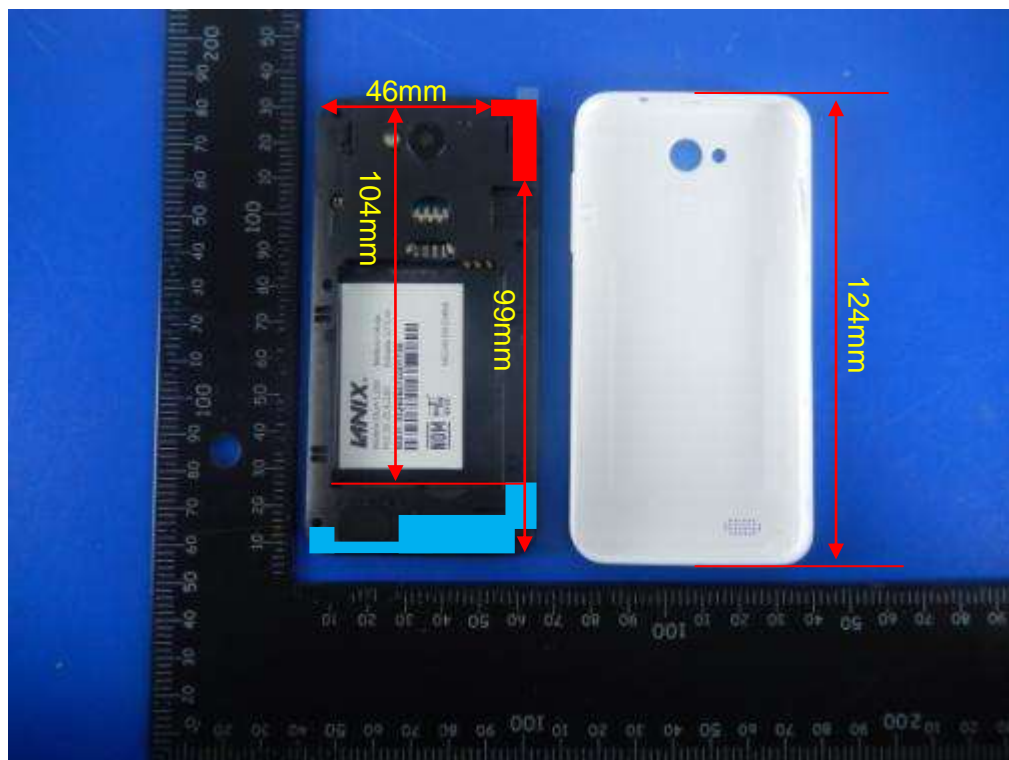
➤ Area Scan & Zoom Scan



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 mobile phone, support GSM 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	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
GSM1900	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band II	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band V	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	<5mm	<5mm	<5mm	<5mm	104mm	<5mm
	Yes	Yes	Yes	Yes	No	Yes
WLAN	<5mm	<5mm	46mm	<5mm	<5mm	99mm
	Yes	Yes	No	Yes	Yes	No
Bluetooth	<5mm	<5mm	46mm	<5mm	<5mm	99mm
	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 $\leq 50\text{mm}$ are determined by:

$$[(\text{max.power of channel, including tune-up tolerance, Mw})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHZ})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

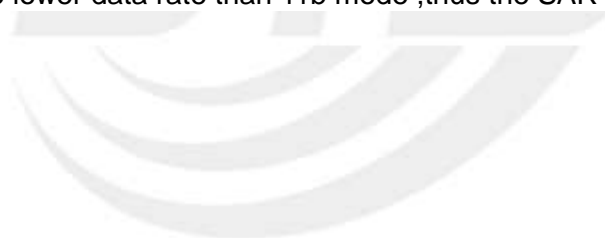


Power and distance are rounded to the nearest mW and mm before calculation

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

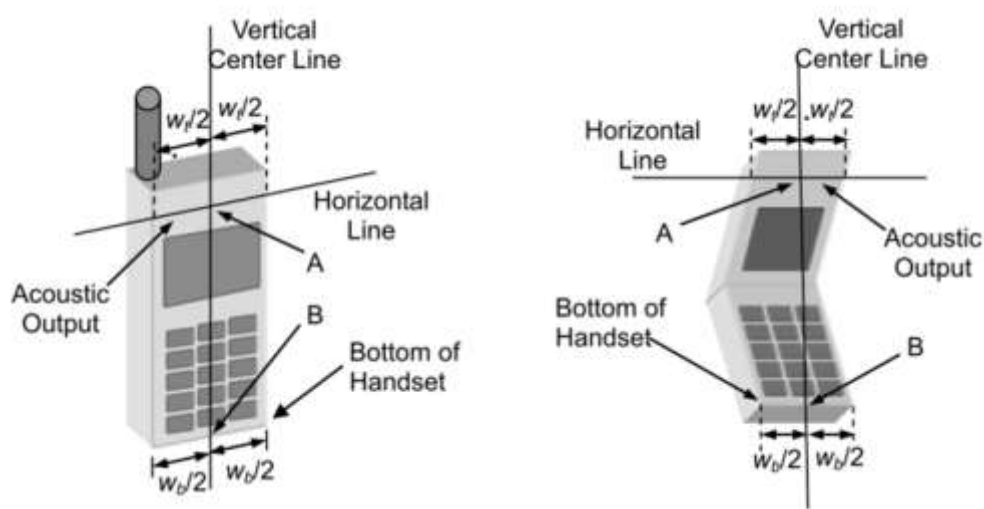
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

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 w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b 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.



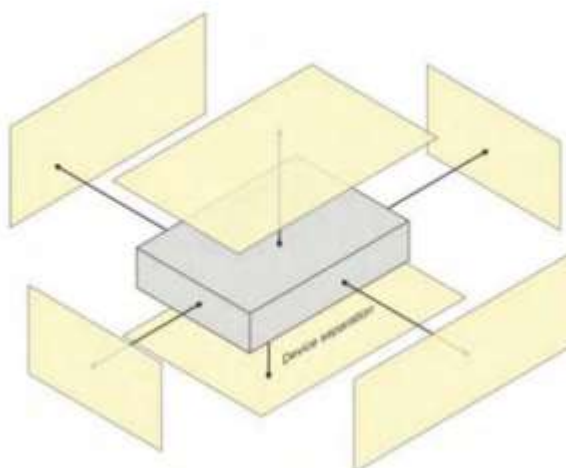
Body-worn Position Conditions

- (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.



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 from 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
4	Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
5	Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
7	Readout electronics	0.5	N	1	1	1	0.50	0.50	∞
8	Response time	0	R	$\sqrt{3}$	1	1	0	0	∞
9	Integration time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
10	Ambient noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
11	Ambient reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
12	Probe positioner mech. restrictions	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
13	Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
14	Max.SAR evaluation	1.0	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and set-up									
18	Phantom uncertainty	4.0	R	$\sqrt{3}$	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 <input type="checkbox"/>									
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
2	Axial isotropy	3.5	R	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
4	Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
5	Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	0	0	∞
10	Integration time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
11	Ambient noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
12	Ambient reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
13	Probe positioner mech. restrictions	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
14	Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
15	Max.SAR evaluation	1.0	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	2.89	2.89	∞
18	Dipole Axis to liquid Distance	2	R	$\sqrt{3}$	1	1			∞
Phantom and set-up									
19	Phantom uncertainty	4.0	R	$\sqrt{3}$	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)	31.99	31.83	31.97	28.30	28.53	28.39
GPRS (GMSK, 1-Slot)	31.95	31.85	31.77	28.17	28.52	28.34
GPRS (GMSK, 2-Slot)	30.88	30.77	30.80	27.23	27.30	27.37
GPRS (GMSK, 3-Slot)	28.78	28.71	28.83	25.12	25.19	25.10
GPRS (GMSK, 4-Slot)	27.73	27.49	27.60	24.04	24.14	24.13
EGPRS(8PSK, 1-Slot)	31.95	31.91	31.76	28.15	28.49	28.38
EGPRS(8PSK, 2-Slot)	30.81	30.89	30.90	26.89	27.16	27.28
EGPRS(8PSK, 3-Slot)	28.73	28.81	28.64	24.92	25.14	25.24
EGPRS(8PSK, 4-Slot)	27.66	27.70	27.65	23.89	24.08	24.03

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)	22.99	22.83	22.97	19.30	19.53	19.39
GPRS (GMSK, 1-Slot)	22.95	22.85	22.77	19.17	19.52	19.34
GPRS (GMSK, 2-Slot)	24.88	24.77	24.80	21.23	21.30	21.37
GPRS (GMSK, 3-Slot)	24.52	24.45	24.57	20.86	20.93	20.84
GPRS (GMSK, 4-Slot)	24.73	24.49	24.60	21.04	21.14	21.13
EGPRS(8PSK, 1-Slot)	22.95	22.91	22.76	19.15	19.49	19.38
EGPRS(8PSK, 2-Slot)	24.81	24.89	24.90	20.89	21.16	21.28
EGPRS(8PSK, 3-Slot)	24.47	24.55	24.38	20.66	20.88	20.98
EGPRS(8PSK, 4-Slot)	24.66	24.70	24.65	20.89	21.08	21.03

Remark :

- SAR testing was performed on the maximum frame-averaged power mode.
- 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	22.81	22.67	22.76	21.98	21.74	21.58
HSDPA Subtest-1	22.84	22.56	22.80	21.97	21.68	21.50
HSDPA Subtest-2	21.73	21.47	21.71	20.83	20.50	20.35
HSDPA Subtest-3	21.31	20.87	21.21	20.43	19.76	19.84
HSDPA Subtest-4	20.51	20.29	20.53	19.68	19.22	19.18
HSUPA Subtest-1	22.71	22.53	22.72	21.88	21.57	21.55
HSUPA Subtest-2	21.74	21.39	21.53	20.78	20.53	20.21
HSUPA Subtest-3	21.24	20.68	21.03	20.19	19.98	19.56
HSUPA Subtest-4	20.54	20.06	20.36	19.48	19.35	18.91
HSUPA Subtest-5	19.95	19.63	19.75	18.75	18.81	18.40

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	$0 \leq CM \leq 3.5$	MAX(CM-1,0)
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.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	11.06
	6	2437	10.79
	11	2462	10.96
802.11g	1	2412	9.77
	6	2437	10.65
	11	2462	10.39
802.11n(HT 20)	1	2412	9.92
	6	2437	9.67
	11	2462	10.07
802.11n(HT 40)	3	2422	8.79
	6	2437	8.14
	9	2452	8.41

Bluetooth

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
GFSK(1M)	0	2402	0.65
	39	2441	-2.30
	78	2480	0.93
$\pi/4$ -DQPSK(2Mbps)	0	2402	0.07
	39	2441	-2.60
	78	2480	0.33
8-DPSK(3Mbps)	0	2402	0.34
	39	2441	-2.38
	78	2480	0.73

Bluetooth

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
GFSK(1M)	0	2402	-6.04
	19	2422	-7.87
	39	2442	-5.82



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 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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	19.26	20.75	19.95
20	QPSK	1	49	19.52	20.61	20.03
20	QPSK	1	99	20.09	19.80	19.60
20	QPSK	50	0	18.39	19.59	18.97
20	QPSK	50	24	18.16	19.35	18.75
20	QPSK	50	49	18.81	19.26	18.17
20	QPSK	100	0	18.64	19.04	18.67
20	16QAM	1	0	18.73	19.69	19.36
20	16QAM	1	49	18.98	19.56	19.43
20	16QAM	1	99	19.50	19.10	19.07
20	16QAM	50	0	18.51	19.48	19.11
20	16QAM	50	24	18.73	19.32	19.23
20	16QAM	50	49	19.28	18.90	18.83
20	16QAM	100	0	17.81	18.54	18.28
Channel				18675	18900	19125
Frequency(MHz)				1857.5	1880	1902.5
15	QPSK	1	0	19.05	20.53	19.93
15	QPSK	1	37	19.25	20.45	20.19
15	QPSK	1	74	19.57	19.82	19.61
15	QPSK	36	0	18.61	19.57	19.17
15	QPSK	36	18	18.39	19.36	18.96
15	QPSK	36	37	18.48	19.26	19.23
15	QPSK	75	0	18.33	19.14	19.02
15	16QAM	1	0	18.57	19.59	19.05
15	16QAM	1	37	18.97	19.20	19.64
15	16QAM	1	74	19.30	19.17	19.17
15	16QAM	36	0	18.36	19.35	18.82
15	16QAM	36	18	18.72	18.99	19.44
15	16QAM	36	37	19.09	18.97	18.94
15	16QAM	75	0	17.50	18.53	18.24
Channel				18650	18900	19150
Frequency(MHz)				1855	1880	1905
10	QPSK	1	0	19.74	20.37	20.09
10	QPSK	1	24	19.07	20.43	20.33
10	QPSK	1	49	19.05	19.94	19.51
10	QPSK	25	0	18.20	19.60	19.38



10	QPSK	25	12	18.22	19.51	19.34
10	QPSK	25	24	18.33	19.34	19.20
10	QPSK	50	0	18.16	19.19	19.05
10	16QAM	1	0	18.53	19.45	19.25
10	16QAM	1	24	18.85	19.53	19.87
10	16QAM	1	49	18.83	19.05	19.07
10	16QAM	25	0	18.42	19.37	19.04
10	16QAM	25	12	18.71	19.39	19.64
10	16QAM	25	24	18.65	18.92	18.84
10	16QAM	50	0	18.28	18.65	18.39
Channel				18625	18900	19175
Frequency(MHz)				1852.5	1880	1907.5
5	QPSK	1	0	19.64	20.82	20.68
5	QPSK	1	12	19.16	20.29	19.99
5	QPSK	1	24	19.50	20.38	19.72
5	QPSK	12	0	18.31	19.65	19.35
5	QPSK	12	6	18.24	19.52	19.03
5	QPSK	12	11	18.22	19.45	18.89
5	QPSK	25	0	18.19	19.52	19.10
5	16QAM	1	0	18.71	20.27	19.98
5	16QAM	1	12	18.28	19.64	18.63
5	16QAM	1	24	18.65	19.97	19.09
5	16QAM	12	0	18.24	19.76	19.64
5	16QAM	12	6	18.05	18.52	18.41
5	16QAM	12	11	18.11	19.32	18.71
5	16QAM	25	0	17.33	18.62	18.32
Channel				18615	18900	19185
Frequency(MHz)				1851.5	1880	1908.5
3	QPSK	1	0	20.39	20.95	20.42
3	QPSK	1	7	20.05	20.84	19.95
3	QPSK	1	14	19.94	20.83	19.67
3	QPSK	8	0	18.63	19.85	19.31
3	QPSK	8	4	18.65	19.87	19.23
3	QPSK	8	7	18.65	19.92	19.01
3	QPSK	15	0	18.53	19.85	19.16
3	16QAM	1	0	19.13	20.20	19.77
3	16QAM	1	7	19.05	20.14	19.42
3	16QAM	1	14	19.12	20.15	19.17
3	16QAM	8	0	17.67	18.78	18.41
3	16QAM	8	4	17.74	18.77	18.23
3	16QAM	8	7	17.78	18.75	18.12



3	16QAM	15	0	17.08	18.59	18.02
Channel				18607	18900	19193
Frequency(MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	20.41	21.50	20.69
1.4	QPSK	1	3	20.14	21.30	20.33
1.4	QPSK	1	5	20.15	21.38	20.29
1.4	QPSK	3	0	20.11	21.30	20.38
1.4	QPSK	3	1	20.09	21.28	21.33
1.4	QPSK	3	3	20.06	21.27	20.22
1.4	QPSK	6	0	19.16	20.38	19.44
1.4	16QAM	1	0	19.04	20.48	20.01
1.4	16QAM	1	3	18.91	20.32	19.72
1.4	16QAM	1	5	19.02	20.41	19.69
1.4	16QAM	3	0	19.02	20.43	19.89
1.4	16QAM	3	1	18.84	20.13	19.64
1.4	16QAM	3	3	18.73	19.94	19.25
1.4	16QAM	6	0	18.13	19.48	18.49





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	21.56	21.18	21.15
20	QPSK	1	50	21.40	20.74	21.04
20	QPSK	1	99	21.24	20.80	20.90
20	QPSK	50	0	20.18	20.02	19.82
20	QPSK	50	24	19.94	19.79	19.61
20	QPSK	50	49	20.06	19.91	19.70
20	QPSK	100	0	19.91	19.79	19.58
20	16QAM	1	0	20.37	20.47	19.98
20	16QAM	1	49	20.19	20.31	19.86
20	16QAM	1	99	20.03	20.14	19.67
20	16QAM	50	0	19.86	19.95	19.45
20	16QAM	50	24	19.65	19.79	19.32
20	16QAM	50	49	19.50	19.64	19.16
20	16QAM	100	0	19.12	18.91	18.75
Channel				20025	20175	20325
Frequency(MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	19.71	19.64	20.51
15	QPSK	1	37	19.42	18.52	20.43
15	QPSK	1	75	19.18	18.63	20.38
15	QPSK	36	0	18.75	18.28	19.85
15	QPSK	36	18	18.53	18.18	19.62
15	QPSK	36	37	19.90	18.24	19.99
15	QPSK	75	0	18.57	17.34	18.66
15	16QAM	1	0	19.09	18.29	20.01
15	16QAM	1	37	19.15	18.22	20.11
15	16QAM	1	74	18.58	19.09	20.06
15	16QAM	36	0	18.57	17.77	19.48
15	16QAM	36	18	18.64	17.69	19.59
15	16QAM	36	36	18.07	18.57	19.53
15	16QAM	75	0	17.00	17.51	18.70
Channel				20000	20175	20350
Frequency(MHz)				1715	1732.5	1750
10	QPSK	1	0	21.09	20.79	19.19
10	QPSK	1	24	21.06	20.77	19.31
10	QPSK	1	49	20.92	20.62	19.14
10	QPSK	25	0	20.02	19.74	18.72



10	QPSK	25	12	19.80	19.51	18.50
10	QPSK	25	24	19.90	19.29	18.45
10	QPSK	50	0	19.49	19.02	17.52
10	16QAM	1	0	20.58	19.16	18.85
10	16QAM	1	12	20.53	19.18	18.67
10	16QAM	1	24	20.38	20.05	18.73
10	16QAM	25	0	20.34	18.95	18.53
10	16QAM	25	12	20.32	18.95	18.53
10	16QAM	25	24	20.14	19.83	18.46
10	16QAM	50	0	18.73	17.38	17.86
Channel				19975	20175	20375
Frequency(MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	21.13	20.95	20.58
5	QPSK	1	12	21.04	20.87	20.52
5	QPSK	1	24	20.94	20.80	20.47
5	QPSK	12	0	20.06	19.84	19.54
5	QPSK	12	6	19.86	19.61	19.30
5	QPSK	12	11	19.94	19.78	19.53
5	QPSK	25	0	19.64	19.68	19.33
5	16QAM	1	0	20.32	19.92	19.83
5	16QAM	1	12	20.27	19.85	19.77
5	16QAM	1	24	20.19	19.79	19.63
5	16QAM	12	0	20.10	19.71	19.60
5	16QAM	12	6	20.05	19.63	19.53
5	16QAM	12	11	19.96	19.55	19.41
5	16QAM	25	0	19.03	18.69	18.49
Channel				19965	20175	20385
Frequency(MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	20.98	20.91	20.55
3	QPSK	1	7	21.00	20.93	20.58
3	QPSK	1	14	20.91	20.86	20.56
3	QPSK	8	0	19.98	19.80	19.46
3	QPSK	8	4	19.77	19.48	19.14
3	QPSK	8	8	20.00	19.71	19.39
3	QPSK	15	0	19.86	19.42	19.26
3	16QAM	1	0	20.53	19.71	19.63
3	16QAM	1	7	20.51	19.68	19.63
3	16QAM	1	14	20.44	19.63	19.59
3	16QAM	8	0	18.89	18.66	18.22
3	16QAM	8	4	19.65	19.17	19.04
3	16QAM	8	7	18.90	18.65	18.23



3	16QAM	15	0	18.79	18.34	18.04
Channel				19957	20175	20393
Frequency(MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	21.12	20.78	20.36
1.4	QPSK	1	2	21.20	20.83	20.44
1.4	QPSK	1	5	21.15	20.76	20.40
1.4	QPSK	3	0	21.09	20.66	20.35
1.4	QPSK	3	1	20.88	20.44	20.10
1.4	QPSK	3	3	21.12	20.68	20.42
1.4	QPSK	6	0	19.98	19.69	19.46
1.4	16QAM	1	0	19.95	19.98	19.27
1.4	16QAM	1	2	20.02	20.11	19.29
1.4	16QAM	1	5	19.97	19.96	19.30
1.4	16QAM	3	0	19.71	19.75	19.03
1.4	16QAM	3	1	19.80	19.87	19.05
1.4	16QAM	3	3	19.75	19.76	19.08
1.4	16QAM	6	0	18.97	18.55	18.30





LTE Band 7

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				20850	21100	21350
Frequency(MHz)				2510	2535	2560
20	QPSK	1	0	20.28	20.82	20.86
20	QPSK	1	49	19.37	21.23	20.97
20	QPSK	1	99	19.56	21.07	20.45
20	QPSK	50	0	18.62	19.94	19.61
20	QPSK	50	24	18.40	19.70	19.39
20	QPSK	50	49	18.31	19.98	19.96
20	QPSK	100	0	17.81	19.68	19.27
20	16QAM	1	0	19.63	20.07	19.96
20	16QAM	1	49	19.56	19.95	20.11
20	16QAM	1	99	20.01	19.83	20.03
20	16QAM	50	0	19.13	19.57	19.41
20	16QAM	50	24	19.06	19.44	19.59
20	16QAM	50	49	19.50	19.29	19.51
20	16QAM	100	0	18.28	19.00	18.79
Channel				20825	21100	21350
Frequency(MHz)				2507.5	2535	2562.5
15	QPSK	1	0	19.97	20.40	20.80
15	QPSK	1	37	19.15	20.36	21.05
15	QPSK	1	74	19.46	19.92	20.42
15	QPSK	36	0	19.22	19.63	19.64
15	QPSK	36	18	19.01	19.40	19.43
15	QPSK	36	37	19.12	19.63	19.09
15	QPSK	75	0	18.62	19.07	18.75
15	16QAM	1	0	19.55	19.22	20.03
15	16QAM	1	37	18.79	19.56	20.31
15	16QAM	1	74	19.21	19.25	19.82
15	16QAM	36	0	19.01	18.72	19.50
15	16QAM	36	18	18.25	19.05	19.77
15	16QAM	36	37	18.70	18.73	19.28
15	16QAM	75	0	17.79	18.62	18.93
Channel				20800	21100	21400
Frequency(MHz)				2505	2535	2565
10	QPSK	1	0	20.24	20.14	19.08



10	QPSK	1	24	19.89	20.06	19.85
10	QPSK	1	49	19.38	20.00	19.13

10	QPSK	25	0	18.85	19.04	18.32
10	QPSK	25	12	18.63	18.80	18.11
10	QPSK	25	24	18.82	19.01	18.21
10	QPSK	50	0	18.36	18.91	18.09
10	16QAM	1	0	19.77	19.60	18.01
10	16QAM	1	24	18.87	19.60	18.67
10	16QAM	1	49	18.24	19.50	17.85
10	16QAM	25	0	19.25	19.09	17.49
10	16QAM	25	12	18.33	19.09	18.13
10	16QAM	25	24	17.73	18.97	17.91
10	16QAM	50	0	17.58	18.12	17.36

Channel				20775	21100	21425
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Frequency(MHz)				2502.5	2535	2567.5
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5	QPSK	1	0	21.38	21.30	21.23
5	QPSK	1	12	20.50	21.31	20.24
5	QPSK	1	24	20.49	21.33	20.05
5	QPSK	12	0	19.39	20.24	19.73
5	QPSK	12	6	19.17	19.99	19.50
5	QPSK	12	11	19.45	20.23	19.23
5	QPSK	25	0	19.15	19.91	18.64
5	16QAM	1	0	19.72	20.37	20.49
5	16QAM	1	12	19.76	20.31	19.74
5	16QAM	1	24	19.81	20.33	19.63
5	16QAM	12	0	19.22	19.86	19.95
5	16QAM	12	6	19.22	19.80	19.21
5	16QAM	12	11	19.28	19.80	19.12
5	16QAM	25	0	18.47	19.12	18.61



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	22.01	22.13	22.46
10	QPSK	1	24	21.95	22.41	22.58
10	QPSK	1	49	22.36	22.70	22.87
10	QPSK	25	0	20.81	21.30	22.26
10	QPSK	25	12	20.56	21.06	22.03
10	QPSK	25	24	21.01	21.46	21.49
10	QPSK	50	0	20.91	21.11	21.20
10	16QAM	1	0	21.53	21.89	21.31
10	16QAM	1	24	21.49	21.92	21.41
10	16QAM	1	49	21.84	22.13	21.72
10	16QAM	25	0	21.00	21.47	20.77
10	16QAM	25	12	20.99	21.48	20.90
10	16QAM	25	24	21.31	21.62	21.20
10	16QAM	50	0	19.99	21.40	20.43
Channel				23755	23790	23825
Frequency(MHz)				706.5	710	713.5
5	QPSK	©©	0	22.50	22.53	23.11
5	QPSK	1	12	22.37	22.59	23.31
5	QPSK	1	24	22.43	22.87	23.00
5	QPSK	12	0	21.51	21.49	22.02
5	QPSK	12	6	21.28	21.28	21.81
5	QPSK	12	11	21.47	21.68	22.36
5	QPSK	25	0	21.42	21.35	21.67
5	16QAM	1	0	21.81	21.78	22.22
5	16QAM	1	12	21.64	21.83	22.32
5	16QAM	1	24	21.74	22.04	22.51
5	16QAM	12	0	21.26	21.28	21.70
5	16QAM	12	6	21.12	21.32	21.82
5	16QAM	12	11	21.24	21.51	22.10
5	16QAM	25	0	20.40	20.64	22.03



Turn Power

Mode	GSM850(AVG)	GSM1900(AVG)
GSM/PCS	31.0±1dBm	28.0±1dBm
GPRS (1 Slot)	31.0±1dBm	28.0±1dBm
GPRS (2 Slot)	30.0±1dBm	26.5±1dBm
GPRS (3 Slot)	28.0±1dBm	24.5±1dBm
GPRS (4 Slot)	27.0±1dBm	23.5±1dBm
EDGE (1 Slot)	31.0±1dBm	27.5±1dBm
EDGE (2 Slot)	30.0±1dBm	26.5±1dBm
EDGE (3 Slot)	28.0±1dBm	24.5±1dBm
EDGE (4 Slot)	27.0±1dBm	23.5±1dBm

Mode	WCDMA Band V(AVG)	WCDMA Band II(AVG)
RMC	22.0±1dBm	21.0±1dBm
HSDPA Subtest-1	22.0±1dBm	21.0±1dBm
HSDPA Subtest-2	21.0±1dBm	20.0±1dBm
HSDPA Subtest-3	20.5±1dBm	19.5±1dBm
HSDPA Subtest-4	20.0±1dBm	19.0±1dBm
HSUPA Subtest-1	22.0±1dBm	21.0±1dBm
HSUPA Subtest-2	21.0±1dBm	20.0±1dBm
HSUPA Subtest-3	20.5±1dBm	19.5±1dBm
HSUPA Subtest-4	20.0±1dBm	18.5±1dBm
HSUPA Subtest-5	19.0±1dBm	18.0±1dBm

Mode	Low	Middle	High
IEEE 802.11b	10.1±1dBm	10.0±1dBm	10.0±1dBm
IEEE 802.11g	9.0±1dBm	10.0±1dBm	10.0±1dBm
IEEE 802.11n(HT 20)	9.0±1dBm	9.0±1dBm	10.0±1dBm
IEEE 802.11n(HT 40)	8.0±1dBm	8.0±1dBm	8.0±1dBm

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

Mode	BT 4.0		
	Low	Middle	High
GFSK	-6±1dBm	-7±1dBm	-5±1dBm



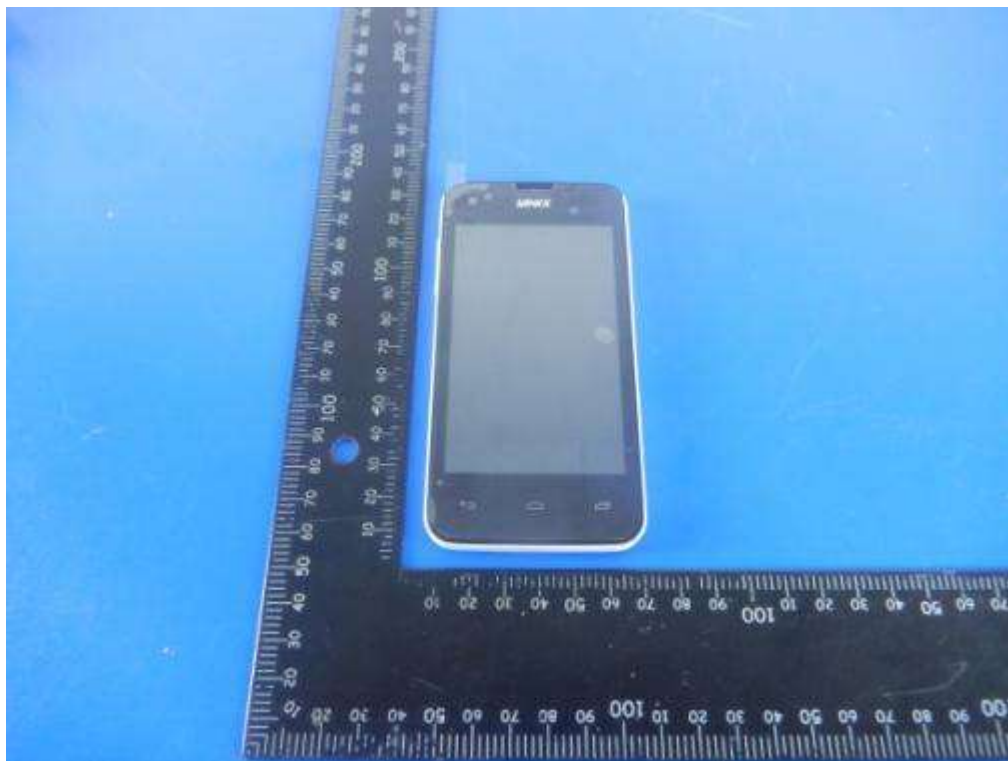
LTE

BW[MHz]	RB Size	Mode	Band II	Band IV	Band VII	Band XVII
1.4	1	QPSK	21±1dBm	21±1dBm	N/A	N/A
1.4	3		21±1dBm	21±1dBm	N/A	N/A
1.4	6		20±1dBm	19±1dBm	N/A	N/A
1.4	1	16-QAM	19.5±1dBm	20±1dBm	N/A	N/A
1.4	3		19.5±1dBm	19±1dBm	N/A	N/A
1.4	6		19±1dBm	18±1dBm	N/A	N/A
3	1	QPSK	20±1dBm	21±1dBm	N/A	N/A
3	8		19±1dBm	20±1dBm	N/A	N/A
3	15		19±1dBm	19±1dBm	N/A	N/A
3	1	16-QAM	20±1dBm	20±1dBm	N/A	N/A
3	8		19±1dBm	19±1dBm	N/A	N/A
3	15		19±1dBm	18±1dBm	N/A	N/A
5	1	QPSK	20±1dBm	21±1dBm	21±1dBm	23±1dBm
5	13		19±1dBm	20±1dBm	20±1dBm	22±1dBm
5	25		19±1dBm	19±1dBm	19±1dBm	21±1dBm
5	1	16-QAM	19.5±1dBm	20±1dBm	20±1dBm	22±1dBm
5	13		19±1dBm	20±1dBm	19±1dBm	22±1dBm
5	25		18±1dBm	19±1dBm	19±1dBm	21.1±1dBm
10	1	QPSK	20±1dBm	20.1±dBm	20±1dBm	22±1dBm
10	25		19±1dBm	19.4±dBm	19±1dBm	21.5±1dBm
10	50		19±1dBm	18.5±dBm	18±1dBm	21±1dBm
10	1	16-QAM	19±1dBm	19.5±1dBm	18.8±1dBm	21±1dBm
10	25		19±1dBm	19.4±1dBm	18.4±1dBm	21±1dBm
10	50		18±1dBm	18±1dBm	18±1dBm	20.5±1dBm
15	1	QPSK	20±1dBm	19.5±1dBm	20.1±1dBm	N/A
15	38		19±1dBm	19±1dBm	19±1dBm	N/A
15	75		19±1dBm	18±1dBm	19±1dBm	N/A
15	1	16-QAM	19±1dBm	19.2±1dBm	19.5±1dBm	N/A
15	38		19±1dBm	18.6±1dBm	19±1dBm	N/A
15	75		18±1dBm	18±1dBm	18±1dBm	N/A
20	1	QPSK	20±1dBm	20.6±1dBm	20.3±1dBm	N/A
20	50		19±1dBm	19.2±1dBm	19±1dBm	N/A
20	100		19±1dBm	19±1dBm	18.8±1dBm	N/A
20	1	16-QAM	19±1dBm	20±1dBm	20±1dBm	N/A
20	50		19±1dBm	19±1dBm	19±1dBm	N/A
20	100		18±1dBm	19±1dBm	19±1dBm	N/A

11. EUT And Test Setup Photo

11.1 EUT Photo

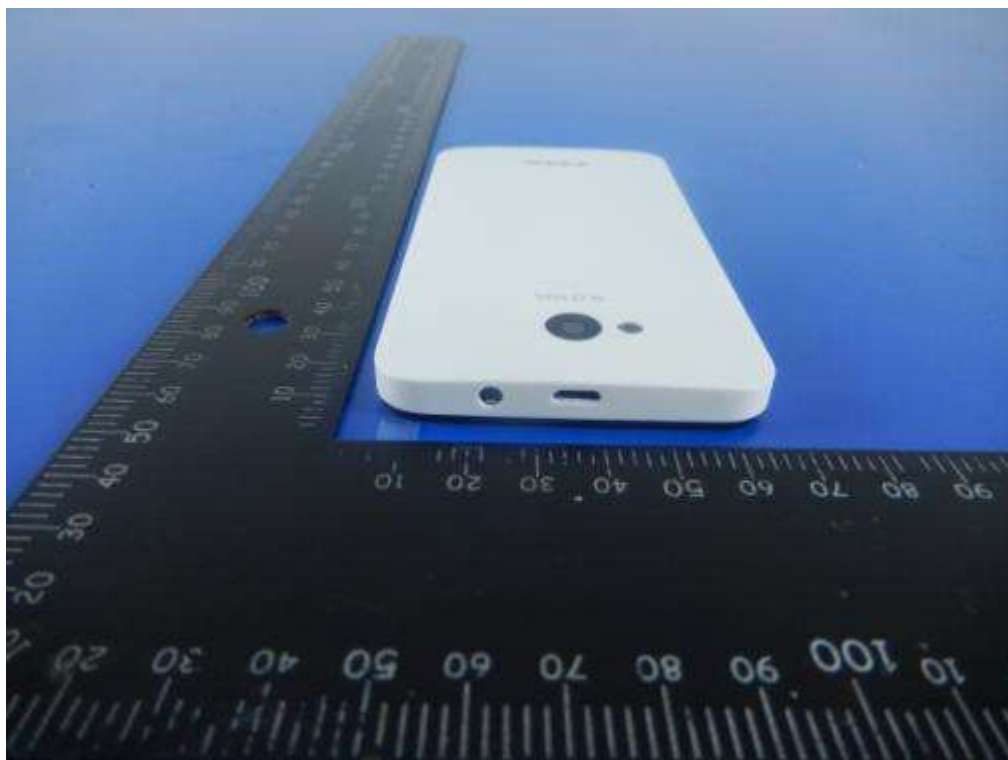
Front side



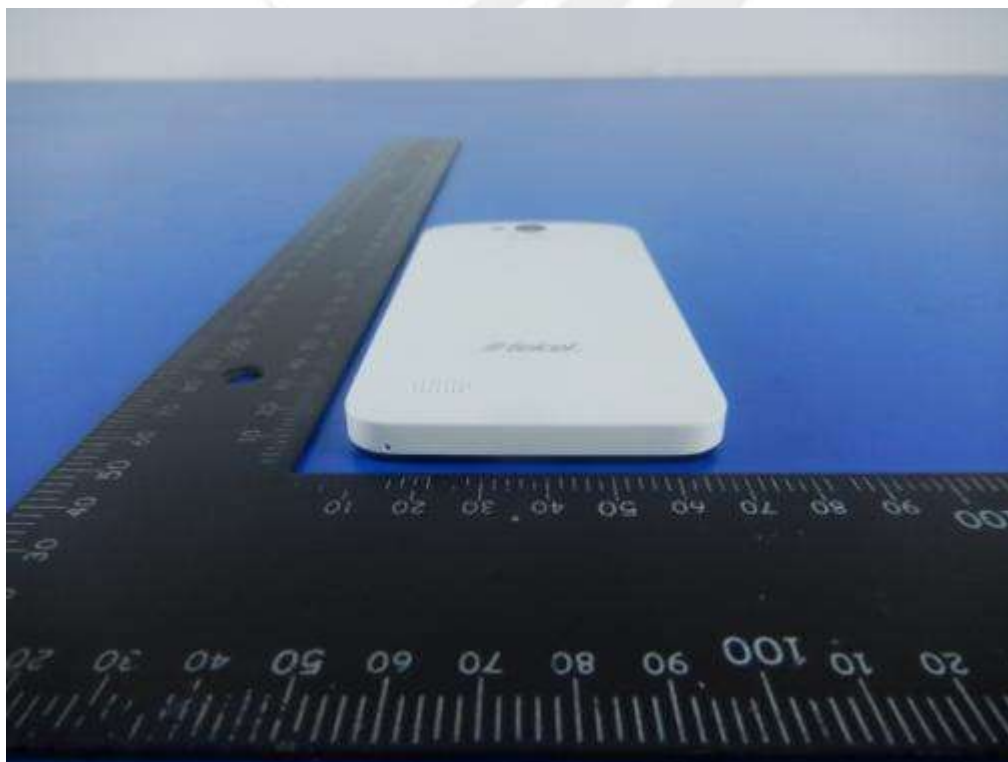
Back side



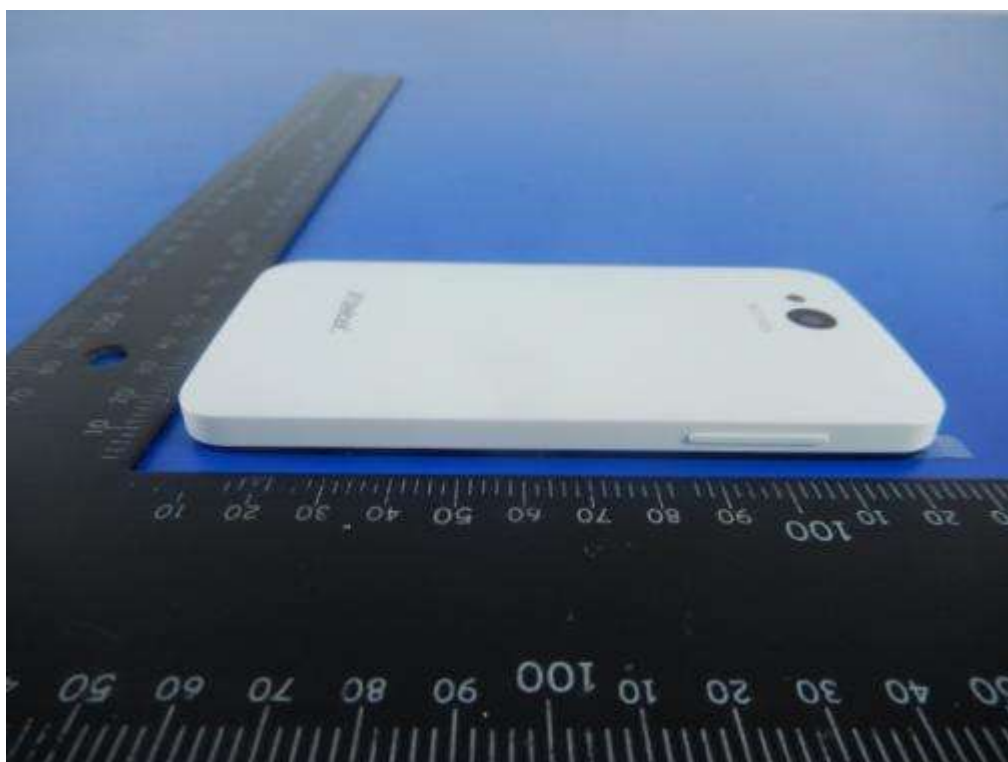
Top side



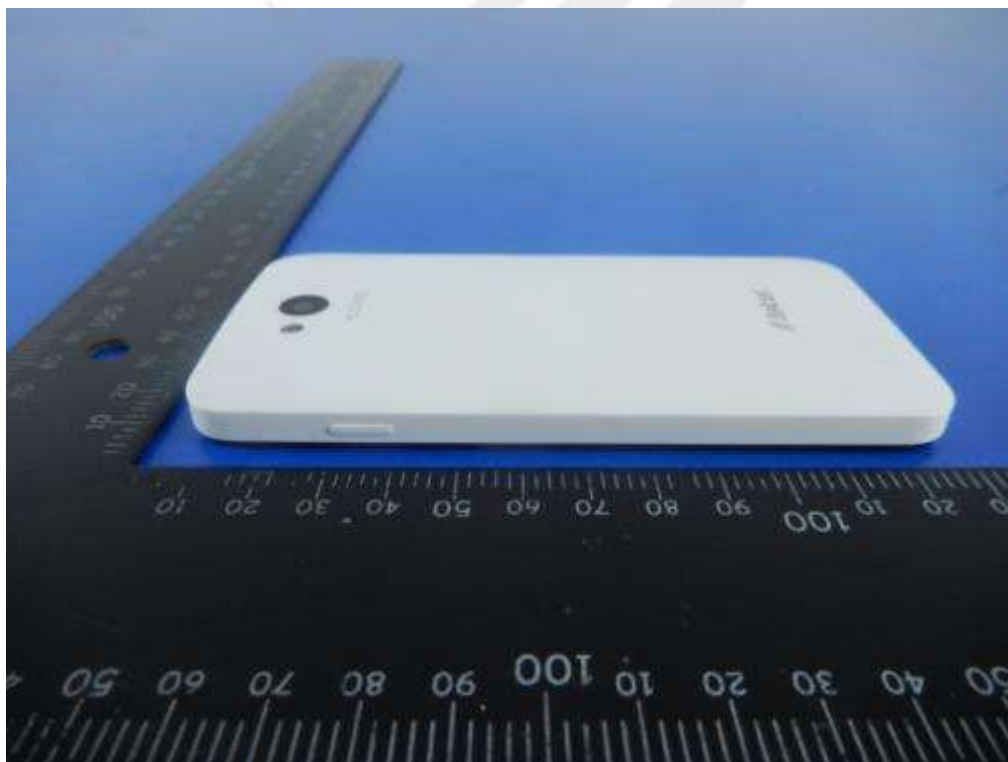
Bottom side



Left side

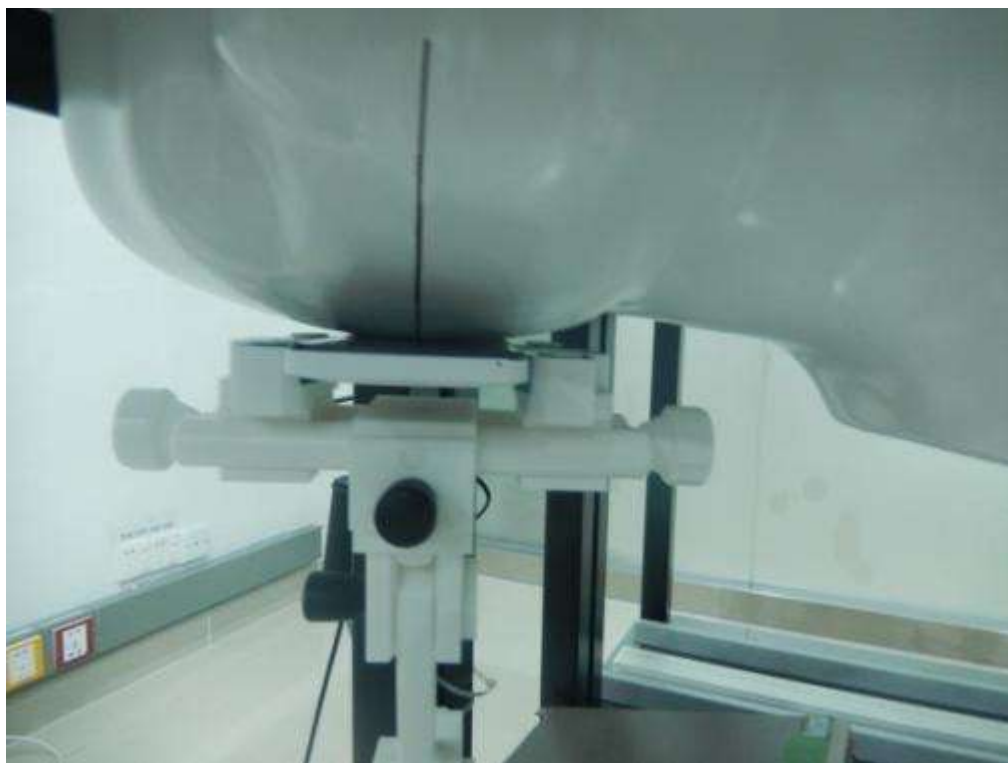


Right side



11.2 Setup Photo

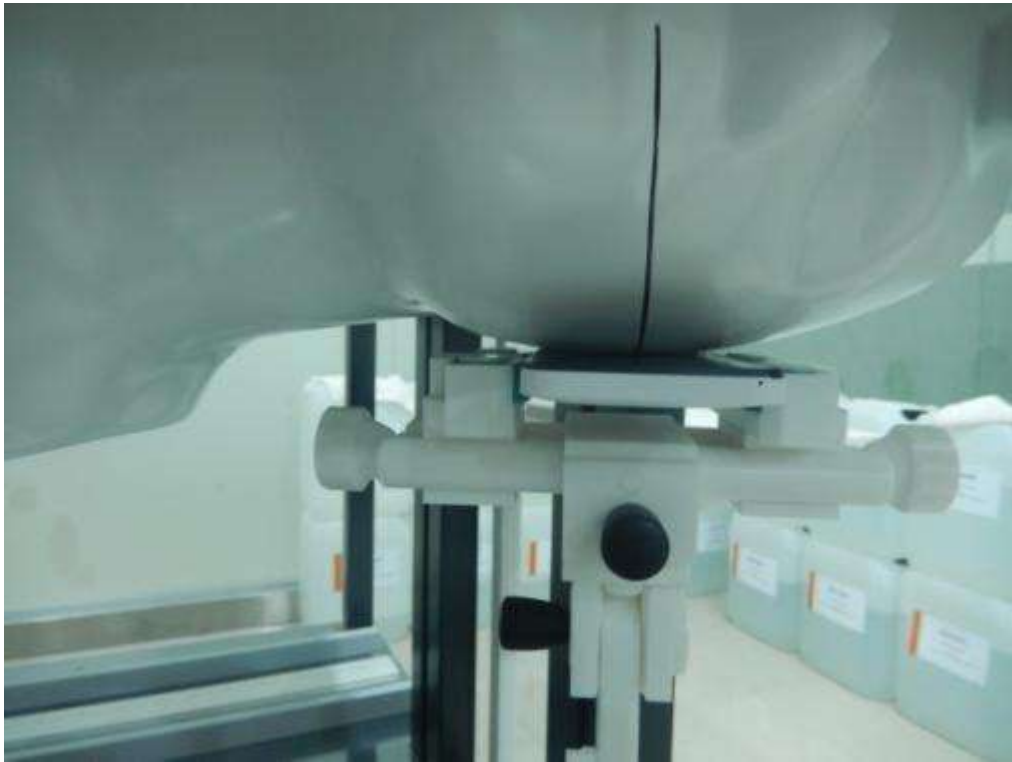
Right Touch



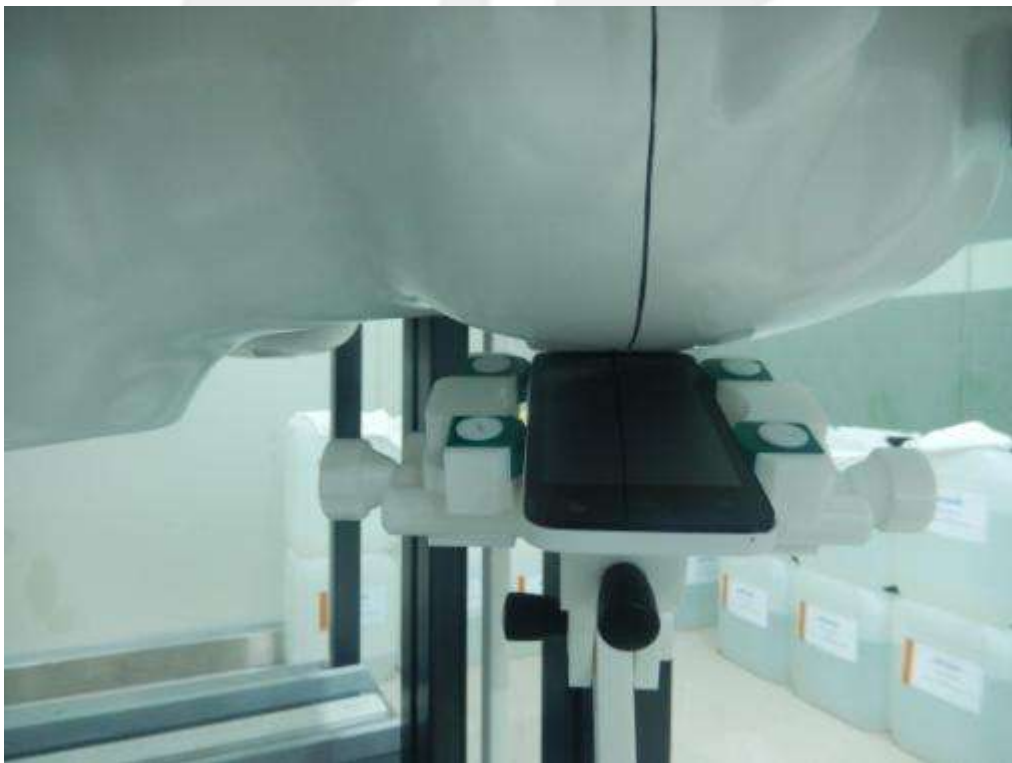
Right Tilt



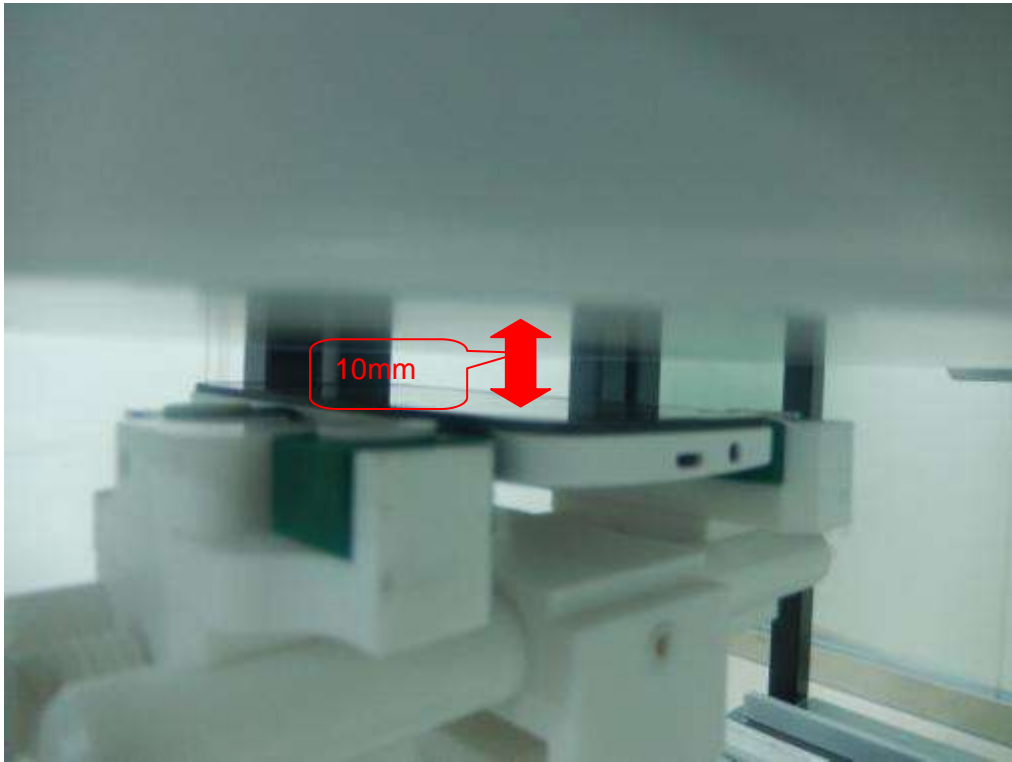
Left Touch



Left Tilt



Body Front side



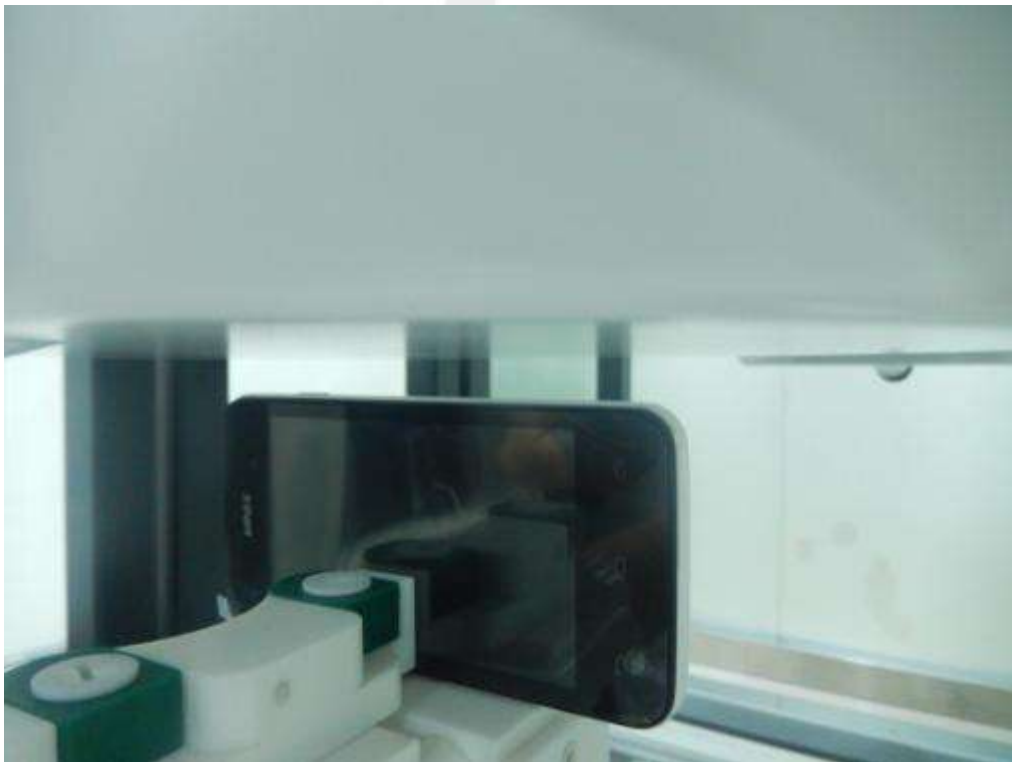
Body Back side



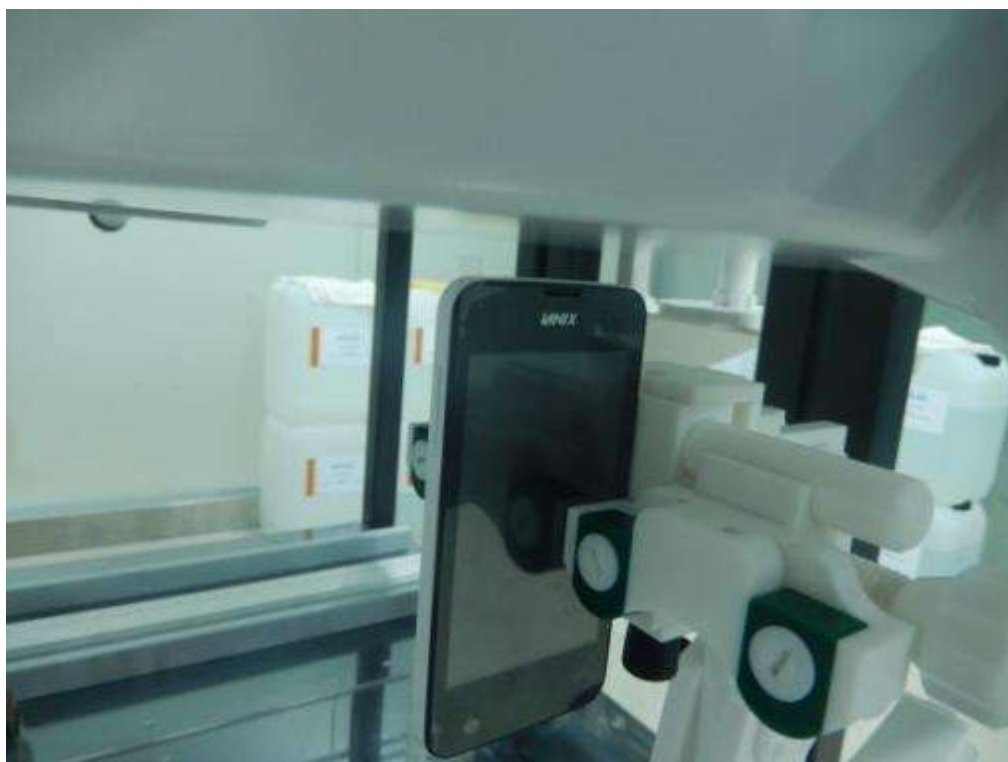
Body left side



Body right side



Body top side



Body Bottom side





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

GSM AND WCDMA

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	0.372	3.11	32	31.99	0.373	1
		Right Tilt	CH 128	0.182	1.01	32	31.99	0.182	2
		Left Cheek	CH 128	0.336	1.80	32	31.99	0.337	3
		Left Tilt	CH 128	0.215	-1.17	32	31.99	0.215	4
GSM1900	Voice	Right Cheek	CH 661	0.158	1.11	29	28.53	0.176	10
		Right Tilt	CH 661	0.058	-1.33	29	28.53	0.065	11
		Left Cheek	CH 661	0.265	3.08	29	28.53	0.295	12
		Left Tilt	CH 661	0.035	4.03	29	28.53	0.039	13
WCDMA II	RMC	Right Cheek	CH 9263	0.320	0.85	22	21.98	0.321	19
		Right Tilt	CH 9263	0.126	1.21	22	21.98	0.127	20
		Left Cheek	CH 9263	0.511	0.2.32	22	21.98	0.513	21
		Left Tilt	CH 9263	0.102	-2.85	22	21.98	0.102	22
WCDMA V	RMC	Right Cheek	CH4132	0.382	0.57	23	22.81	0.399	28
		Right Tilt	CH4132	0.234	-0.11	23	22.81	0.244	29
		Left Cheek	CH4132	0.382	-0.94	23	22.81	0.399	30
		Left Tilt	CH4132	0.244	-0.07	23	22.81	0.255	31

WIFI

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.
DATA	Right Cheek	CH 1	0.282	0.38	11.1	11.06	100	0.285	37
	Right Tilt	CH 1	0.216	-0.25	11.1	11.06	100	0.218	38
	Left Cheek	CH 1	0.256	0.30	11.1	11.06	100	0.258	39
	Left Tilt	CH 1	0.248	-0.16	11.1	11.06	100	0.250	40



LTE

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	0	Right Cheek	19100	0.261	-2.96	21	20.75	0.276	/
			50	0	Right Cheek	19100	0.283	1.51	20	19.59	0.311	45
			1	0	Right Tilt	19100	0.112	-2.48	21	20.75	0.119	46
			50	0	Right Tilt	19100	0.108	-0.11	20	19.59	0.119	/
			1	0	Left Cheek	19100	0.390	0.75	21	20.75	0.413	47
			50	0	Left Cheek	19100	0.365	1.97	20	19.59	0.401	/
			1	0	Left Tilt	19100	0.081	0.63	21	20.75	0.086	48
			50	0	Left Tilt	19100	0.072	0.52	20	19.59	0.079	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	20050	0.774	-1.30	21.6	21.56	0.781	54
			50	0	Right Cheek	20050	0.631	-0.34	20.2	20.18	0.634	/
			1	0	Right Tilt	20050	0.263	-0.47	21.6	21.56	0.265	55
			50	0	Right Tilt	20050	0.228	-0.53	20.2	20.18	0.229	/
			1	0	Left Cheek	20050	1.255	0.95	21.6	21.56	1.267	56
			50	0	Left Cheek	20050	0.758	-0.56	20.2	20.18	0.761	/
			100	0	Left Cheek	20050	0.797	-0.70	20	19.91	0.814	/
			1	0	Left Cheek	20175	0.907	-0.87	21.6	21.18	0.999	/
			50	0	Left Cheek	20175	0.941	1.21	20.2	20.02	0.981	/
			100	0	Left Cheek	20175	0.815	-0.30	20	19.79	0.855	/
			1	0	Left Cheek	20300	0.897	-0.33	21.6	21.15	0.995	/
			50	0	Left Cheek	20300	0.690	-0.43	20.2	19.82	0.753	/
			100	0	Left Cheek	20300	0.680	0.42	20	19.58	0.749	/
			1	0	Left Tilt	20050	0.384	-0.55	20.2	20.18	0.386	57
			50	0	Left Tilt	20050	0.314	-0.64	21.6	21.56	0.317	/



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 7	20M	QPSK	1	50	Right Cheek	21350	0.214	1.29	21.3	21.23	0.217	63
			50	50	Right Cheek	21350	0.162	0.25	20	19.98	0.163	/
			1	50	Right Tilt	21350	0.106	-0.89	21.3	21.23	0.108	64
			50	50	Right Tilt	21350	0.093	0.54	20	19.98	0.093	/
			1	50	Left Cheek	21350	0.332	1.06	21.3	21.23	0.337	65
			50	50	Left Cheek	21350	0.245	0.57	20	19.98	0.246	/
			1	50	Left Tilt	21350	0.139	-4.03	21.3	21.23	0.141	66
			50	50	Left Tilt	21350	0.086	-0.06	20	19.98	0.086	/
LTE Band 17	10M	QPSK	1	24	Right Cheek	23780	0.133	0.44	23	22.87	0.137	72
			25	12	Right Cheek	23780	0.101	0.21	22.5	22.26	0.107	/
			1	24	Right Tilt	23780	0.085	0.63	23	22.87	0.088	73
			25	12	Right Tilt	23780	0.071	-0.34	22.5	22.26	0.075	/
			1	24	Left Cheek	23780	0.145	2.13	23	22.87	0.149	74
			25	12	Left Cheek	23780	0.103	0.37	22.5	22.26	0.109	/
			1	24	Left Tilt	23780	0.091	0.37	23	22.87	0.094	75
			25	12	Left Tilt	23780	0.075	0.07	22.5	22.26	0.079	/



12.2 Body SAR And Hotspot

GSM AND WCDMA

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	EGPRS Data-2 Slot (hotspot)	Front side	CH 251	0.288	-0.77	31	30.90	0.295	5
		Back side	CH 251	0.333	-2.00	31	30.90	0.341	6
		Left side	CH 251	0.197	-0.88	31	30.90	0.202	7
		Right side	CH 251	0.196	-1.01	31	30.90	0.201	8
		Bottom side	CH 251	0.044	0.41	31	30.90	0.045	9
GSM1900	GPRS Data-2 Slot (hotspot)	Front side	CH 810	0.266	0.22	27.5	27.37	0.274	14
		Back side	CH 810	0.239	-0.46	27.5	27.37	0.246	15
		Left side	CH 810	0.065	-2.49	27.5	27.37	0.067	16
		Right side	CH 810	0.124	-0.02	27.5	27.37	0.128	17
		Bottom side	CH 810	0.312	3.04	27.5	27.37	0.321	18
WCDMA II	RMC (body-worn and hotspot)	Front side	CH9263	0.503	-3.27	22	21.98	0.505	23
		Back side	CH9263	0.509	-4.00	22	21.98	0.511	24
		Left side	CH9263	0.230	-0.13	22	21.98	0.231	25
		Right side	CH9263	0.087	0.29	22	21.98	0.087	26
		Bottom side	CH9263	0.719	-0.44	22	21.98	0.722	27
WCDMA V	RMC (body-worn and hotspot)	Front side	CH4132	0.382	0.08	23	22.81	0.399	32
		Back side	CH4132	0.485	-0.23	23	22.81	0.507	33
		Left side	CH4132	0.275	-2.54	23	22.81	0.287	34
		Right side	CH4132	0.262	0.27	23	22.81	0.274	35
		Bottom side	CH4132	0.062	-3.14	23	22.81	0.065	36

WIFI

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.
DATA (body-worn and hotspot)	Front side	CH 1	0.133	0.16	11.1	11.06	100	0.134	41
	Back side	CH 1	0.135	-0.35	11.1	11.06	100	0.136	42
	Left side	CH 1	0.132	-0.04	11.1	11.06	100	0.133	43
	Bottom side	CH 1	0.149	-2.07	11.1	11.06	100	0.150	44



LTE

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	0	Front	19100	0.412	-0.89	21	20.75	0.436	/
			50	0	Front	19100	0.473	-0.11	20	19.59	0.520	49
			1	0	Back	19100	0.369	-3.34	21	20.75	0.391	50
			50	0	Back	19100	0.347	-0.55	20	19.59	0.381	/
			1	0	Left Side	19100	0.189	-0.30	21	20.75	0.200	51
			50	0	Left Side	19100	0.175	-2.54	20	19.59	0.192	/
			1	0	Right Side	19100	0.077	1.18	21	20.75	0.082	52
			50	0	Right Side	19100	0.065	0.27	20	19.59	0.071	/
			1	0	Bottom Side	19100	0.588	-0.24	21	20.75	0.623	53
			50	0	Bottom Side	19100	0.563	1.02	20	19.59	0.619	/
LTE Band 4	20M	QPSK	1	0	Front	20050	1.092	0.85	21.6	21.56	1.102	58
			50	0	Front	20050	0.826	1.32	20.2	20.18	0.830	/
			100	0	Front	20050	0.852	-0.07	20	19.91	0.870	/
			1	0	Front	20175	0.860	0.96	21.6	21.18	0.947	/
			50	0	Front	20175	0.769	-0.54	20.2	20.02	0.802	/
			100	0	Front	20175	0.833	-0.43	20	19.79	0.874	/
			1	0	Front	20300	1.001	-0.45	21.6	21.15	1.110	/
			50	0	Front	20300	0.723	-0.24	20.2	19.82	0.789	/
			100	0	Front	20300	0.740	3.16	20	19.58	0.815	/
			1	0	Back	20050	1.059	-0.73	21.6	21.56	1.069	/
			50	0	Back	20050	0.947	-2.39	20.2	20.18	0.951	/
			100	0	Back	20050	0.907	0.32	20	19.91	0.926	/
			1	0	Back	20175	1.220	-0.76	21.6	21.18	1.344	59
			50	0	Back	20175	0.977	1.47	20.2	20.02	1.018	/
			100	0	Back	20175	0.883	-0.55	20	19.79	0.927	/
			1	0	Back	20300	1.040	-0.80	21.6	21.15	1.154	/
			50	0	Back	20300	0.769	-0.81	20.2	19.82	0.839	/
			100	0	Back	20300	0.769	-0.49	20	19.58	0.847	/
			1	0	Left Side	20050	0.439	0.44	21.6	21.56	0.443	60
			50	0	Left Side	20050	0.342	-0.02	20.2	20.18	0.344	/
1	0	Right Side	20050	0.162	-1.08	21.6	21.56	0.163	61			
50	0	Right Side	20050	0.173	-0.63	20.2	20.18	0.174	/			
1	0	Bottom Side	20050	0.812	-2.16	21.6	21.56	0.820	/			



			50	0	Bottom Side	20050	0.739	-1.59	20.2	20.18	0.742	/
			100	0	Bottom Side	20050	0.667	0.91	20	19.91	0.681	/
			1	0	Bottom Side	20175	0.848	0.31	21.6	21.18	0.934	62
			50	0	Bottom Side	20175	0.631	-0.17	20.2	20.02	0.658	/
			100	0	Bottom Side	20175	0.588	-0.22	20	19.79	0.617	/
			1	0	Bottom Side	20300	0.814	-0.48	21.6	21.15	0.903	/
			50	0	Bottom Side	20300	0.738	0.03	20.2	19.82	0.805	/
			100	0	Bottom Side	20300	0.744	0.37	20	19.58	0.820	/
LTE Band 7	20M	QPSK	1	50	Front	21350	0.186	-1.54	21.3	21.23	0.189	67
			50	50	Front	21350	0.145	-2.50	20	19.98	0.146	/
			1	50	Back	21350	0.214	-2.17	21.3	21.23	0.217	68
			50	50	Back	21350	0.158	-1.31	20	19.98	0.159	/
			1	50	Left Side	21350	0.163	0.43	21.3	21.23	0.166	69
			50	50	Left Side	21350	0.131	-0.36	20	19.98	0.132	/
			1	50	Right Side	21350	0.066	1.06	21.3	21.23	0.067	70
			50	50	Right Side	21350	0.063	0.18	20	19.98	0.063	/
			1	50	Bottom Side	21350	0.302	0.70	21.3	21.23	0.307	71
			50	50	Bottom Side	21350	0.249	-4.19	20	19.98	0.250	/
LTE Band 17	10M	QPSK	1	24	Front	23780	0.152	3.73	23	22.87	0.157	76
			25	12	Front	23780	0.137	0.37	22.5	22.26	0.145	/
			1	24	Back	23780	0.191	-3.69	23	22.87	0.197	77
			25	12	Back	23780	0.179	-2.87	22.5	22.26	0.189	/
			1	24	Left Side	23780	0.155	-0.37	23	22.87	0.160	78
			25	12	Left Side	23780	0.077	-0.13	22.5	22.26	0.081	/
			1	24	Right Side	23780	0.064	-2.99	23	22.87	0.066	79
			25	12	Right Side	23780	0.058	-0.13	22.5	22.26	0.061	/
			1	24	Bottom Side	23780	0.045	0.04	23	22.87	0.046	80
			25	12	Bottom Side	23780	0.040	-0.20	22.5	22.26	0.042	/

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 **0.259** W/Kg for Head and **0.136** W/Kg for Body/Hotspot)



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 $\leq 50\text{mm}$, Bluetooth standalone SAR is excluded according to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot \sqrt{f} (\text{GHz}) / x] \leq 3.0$ 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) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot \sqrt{f} (\text{GHz}) / x$ 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 $>50\text{mm}$.

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	2.480	0.053
	Body			10	2.480	0.026



Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + WIFI	Head	GSM Voice	0.373	0.658
		WIFI	0.285	
	Body	GSM Voice	0.341	0.491
		WIFI	0.150	
GSM + Bluetooth	Head	GSM Voice	0.373	0.426
		Bluetooth	0.053	
	Body	GSM Voice	0.341	0.367
		Bluetooth	0.026	
WCDMA + WIFI	Head	WCDMA RMC	0.513	0.798
		WIFI	0.285	
	Body	WCDMA RMC	0.722	0.872
		WIFI	0.150	
WCDMA + Bluetooth	Head	WCDMA RMC	0.513	0.566
		Bluetooth	0.053	
	Body	WCDMA RMC	0.722	0.748
		Bluetooth	0.026	
LTE + WIFI	Head	LTE RMC	1.267	1.552
		WIFI	0.285	
	Body	LTE RMC	1.344	1.494
		WIFI	0.150	
LTE + Bluetooth	Head	LTE RMC	1.267	1.320
		Bluetooth	0.053	
	Body	LTE RMC	1.344	1.370
		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	2015.08.31
835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	2014.09.01	2015.08.31
1800MHz Dipole	SATIMO	SID1800	SN 30/14 DIP1G800-329	2014.09.01	2015.08.31
1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	2014.09.01	2015.08.31
2450MHzDipole	SATIMO	SID2450	SN 30/14 DIP2G450-335	2014.09.01	2015.08.31
2600MHzDipole	SATIMO	SID2600	SN 30/14 DIP2G600-336	2014.09.01	2015.08.31
E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	2014.09.01	2015.08.31
Antenna	SATIMO	ANTA3	SN 07/13 ZNTA52	2014.09.01	2015.08.31
Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2014.09.01	2015.08.31
Phantom1	SATIMO	SAM	SN 32/14 SAM115	2014.09.01	2015.08.31
Phantom2	SATIMO	SAM	SN 32/14 SAM116	2014.09.01	2015.08.31
SAR TEST BENCH	SATIMO	GSM and WCDMA mobile phone POSITIONNIN G SYSTEM	SN 32/14 MSH97	2014.09.01	2015.08.31
SAR TEST BENCH	SATIMO	LAPTOP POSITIONNIN G SYSTEM	SN 32/14 LSH29	2014.09.01	2015.08.31
Dielectric Probe Kit	SATIMO	SCLMP	SN 32/14 OCPG52	2014.09.01	2015.08.31
Multi Meter	Keithley	Multi Meter 2000	4050073	2014.11.20	2015.11.19
Signal Generator	Agilent	N5182A	MY50140530	2014.11.18	2015.11.17
Power Meter	R&S	NRP	100510	2014.10.25	2015.10.24
Power Sensor	R&S	NRP-Z11	101919	2014.10.24	2015.10.23
Network Analyzer	Agilent	5071C	EMY46103472	2014.12.12	2015.12.11



Appendix A. System Validation Plots

System Performance Check Data (750MHz Head)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

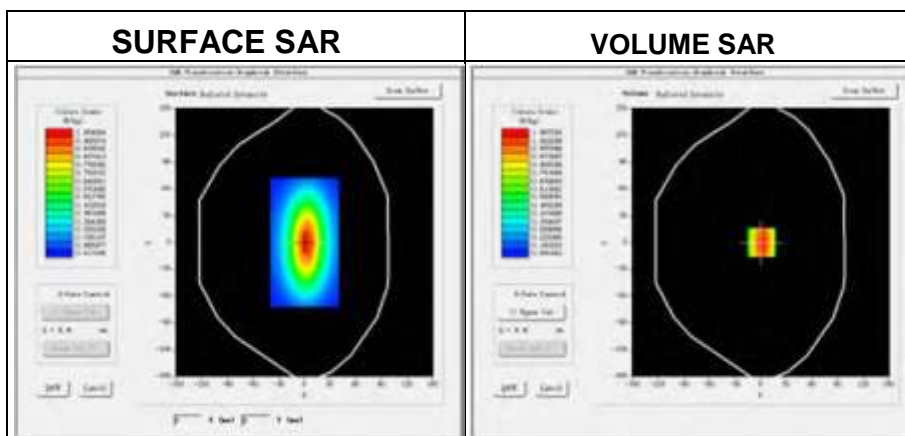
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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





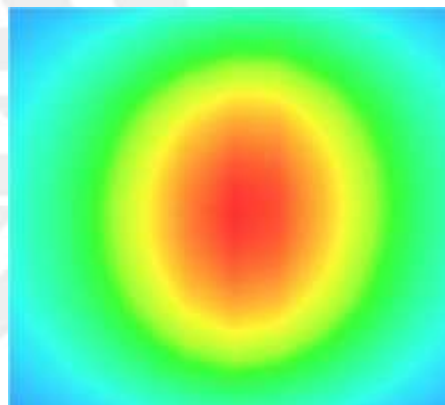
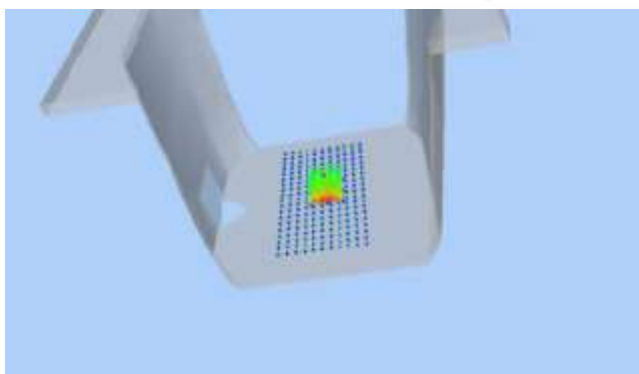
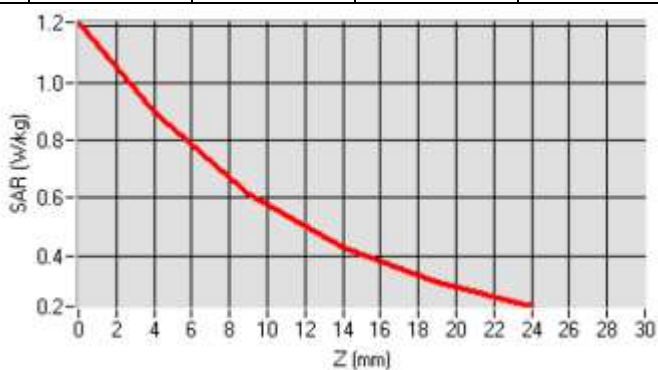
Maximum location: X=1.00, Y=0.00

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

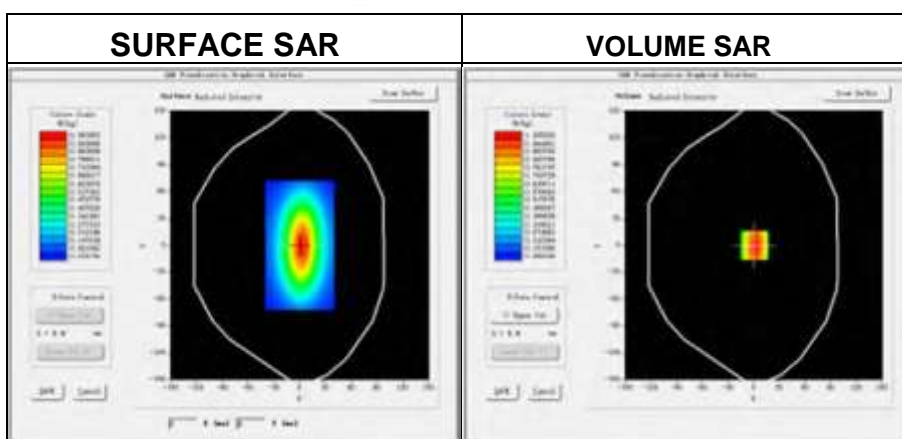
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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





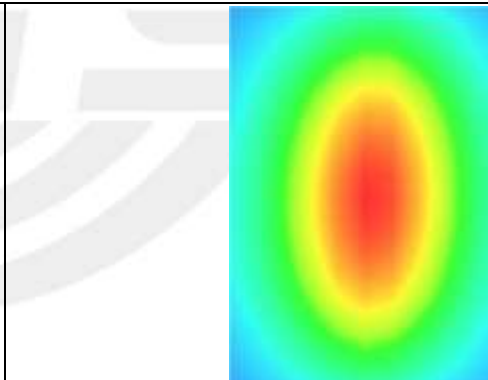
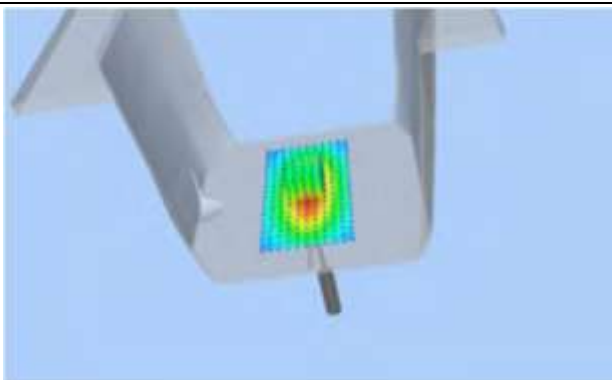
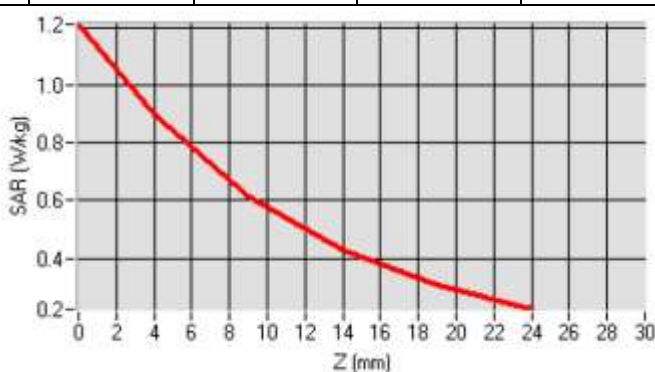
Maximum location: X=1.00, Y=0.00

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

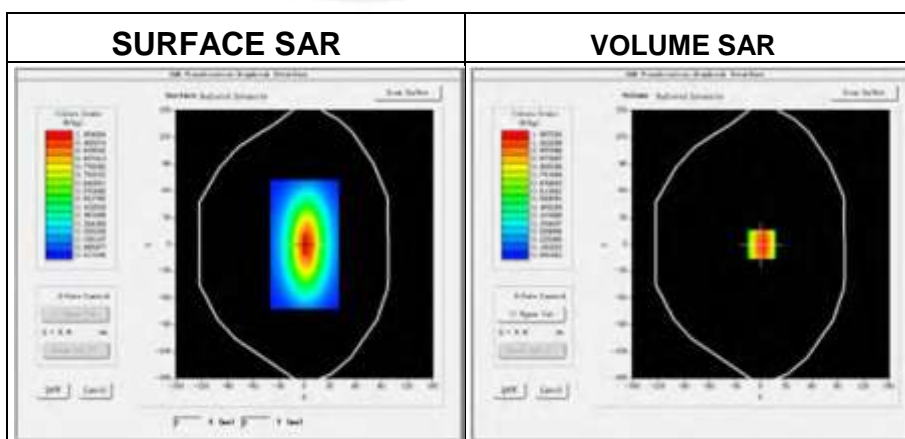
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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



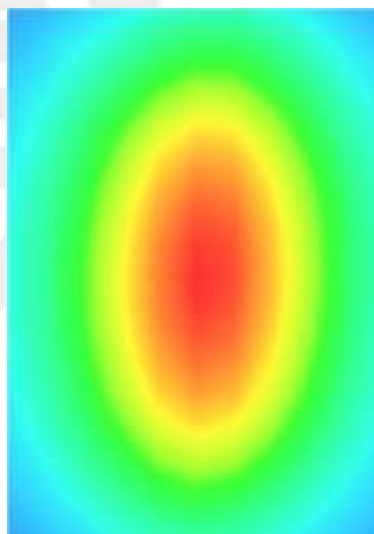
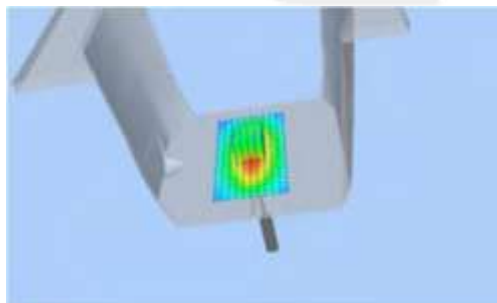
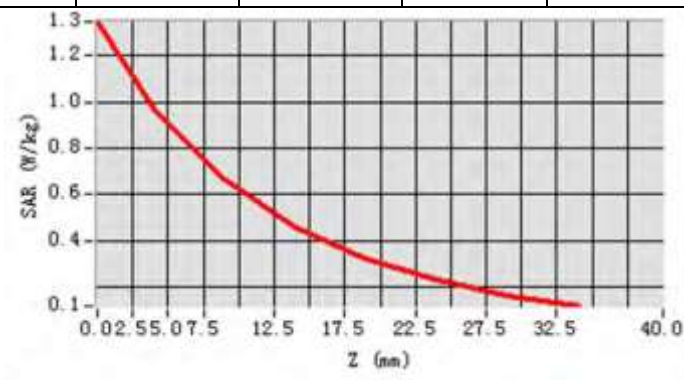
Maximum location: X=1.00, Y=0.00

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

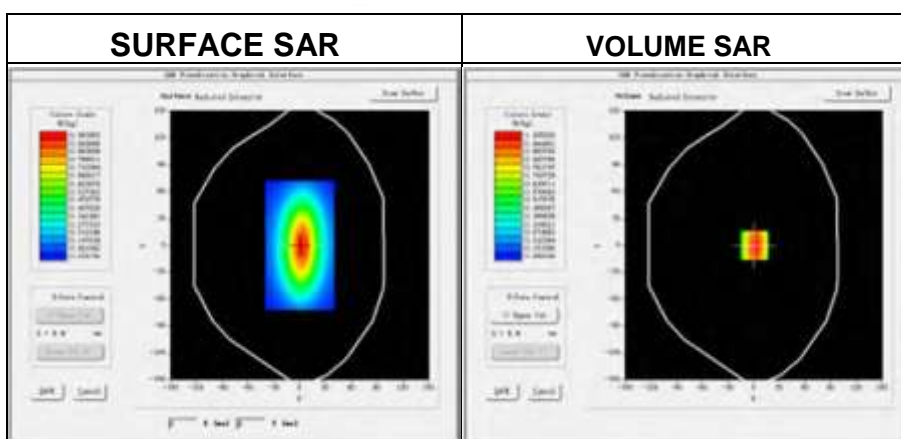
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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





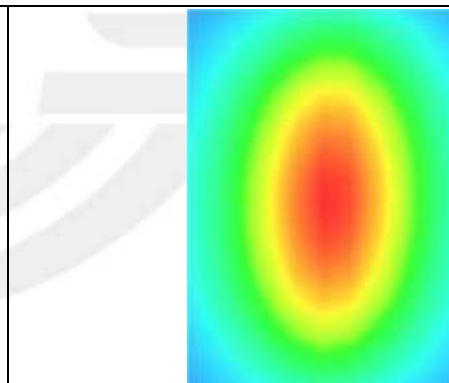
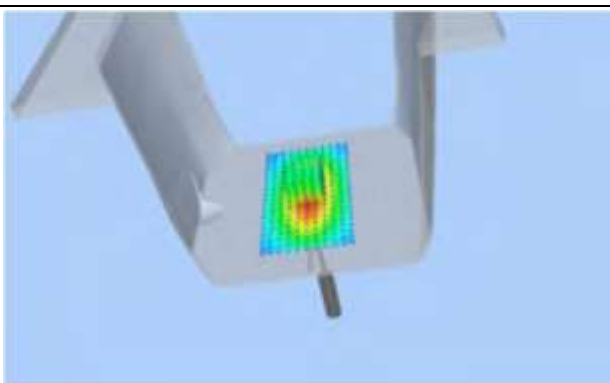
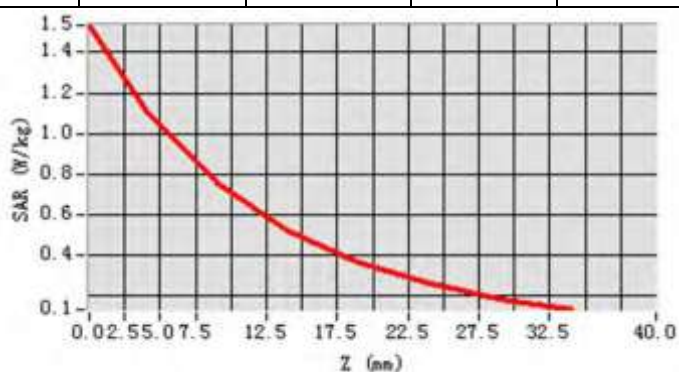
Maximum location: X=1.00, Y=0.00

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)

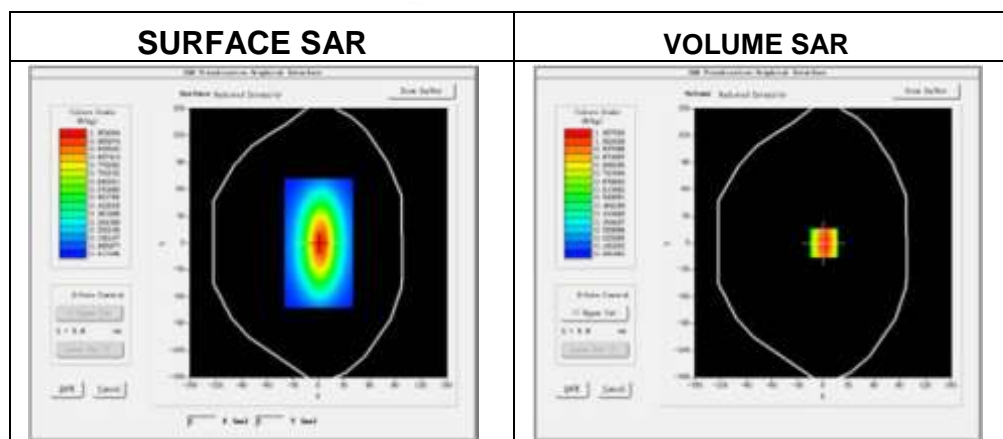
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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



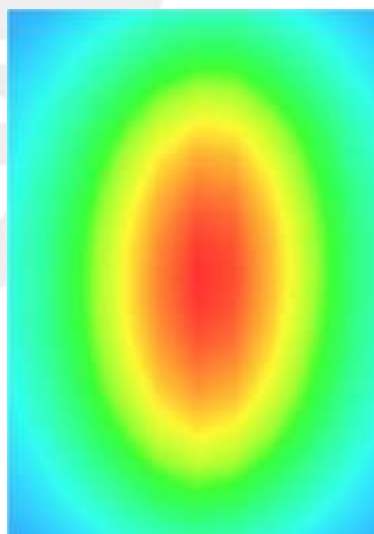
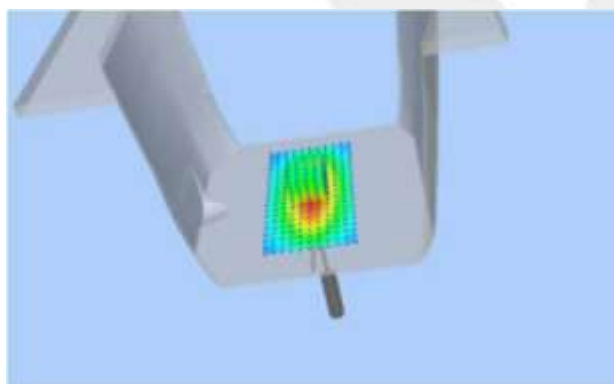
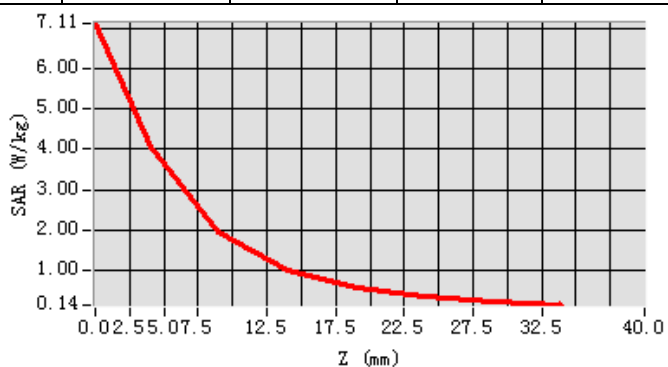


Maximum location: X=7.00, Y=-1.00

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)

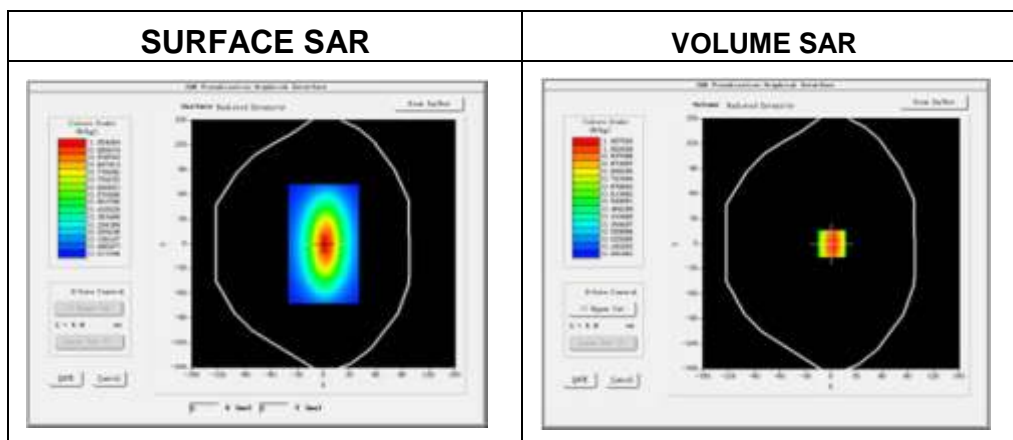
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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



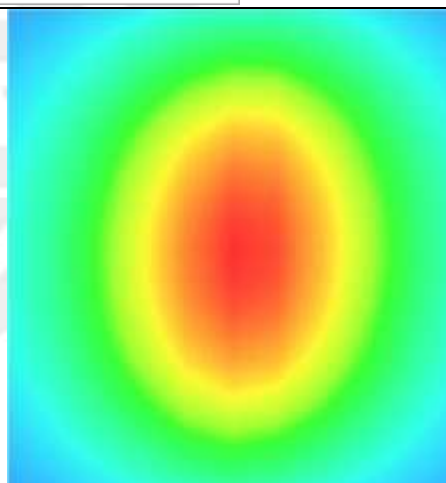
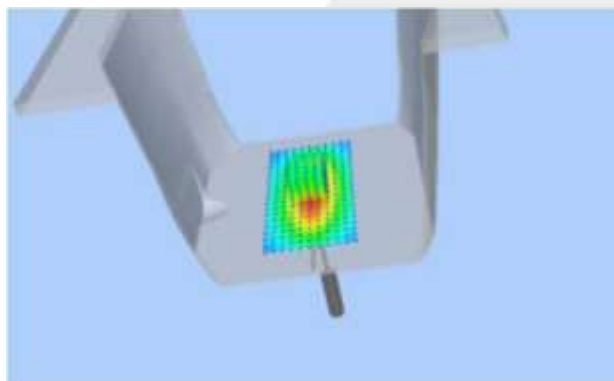
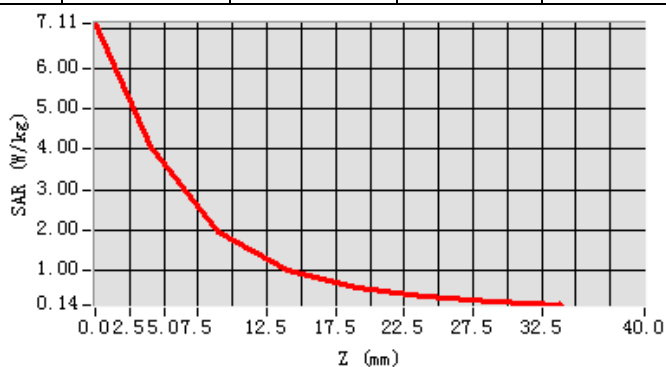


Maximum location: X=6.00, Y=2.00

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

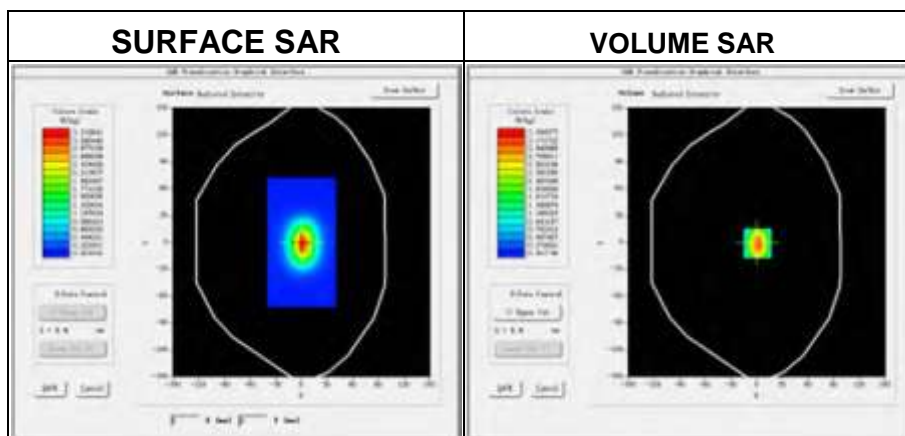
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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





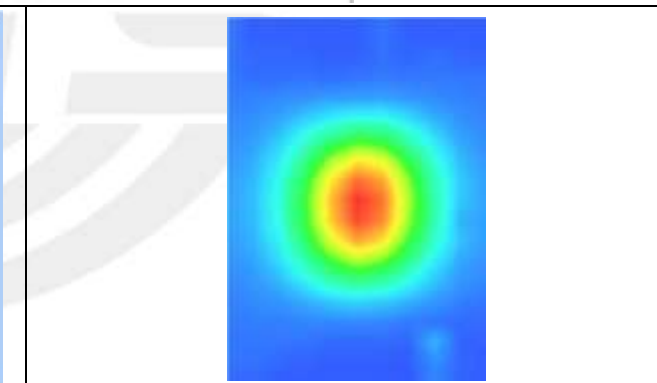
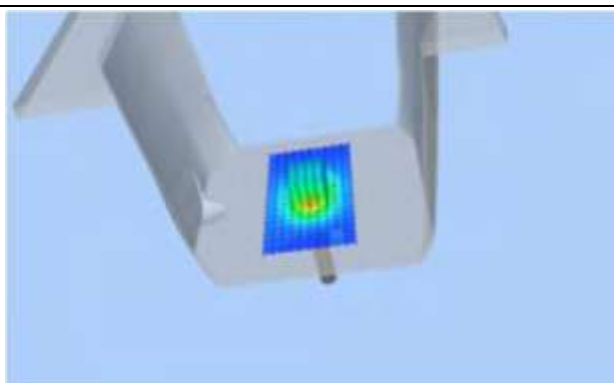
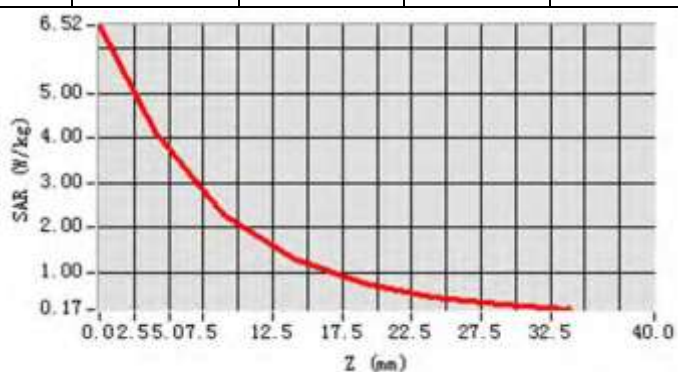
Maximum location: X=1.00, Y=0.00

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

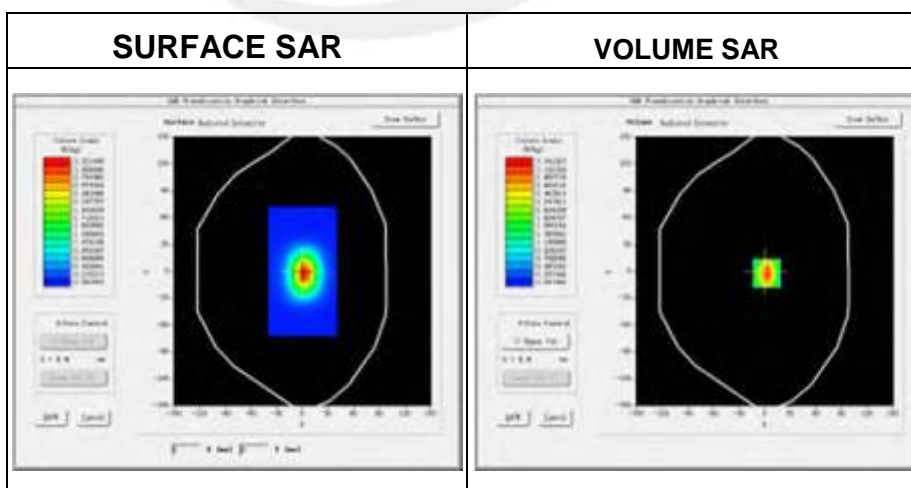
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

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





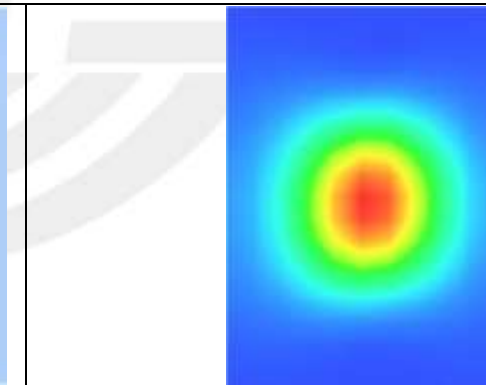
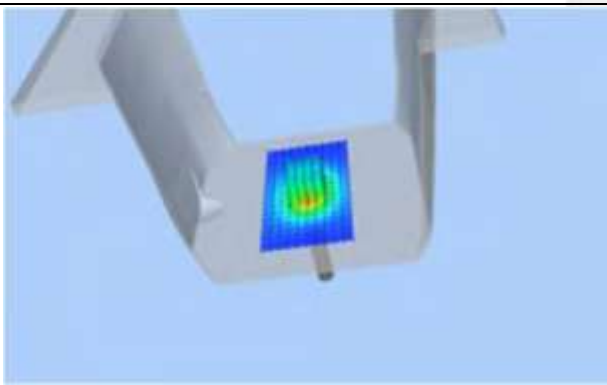
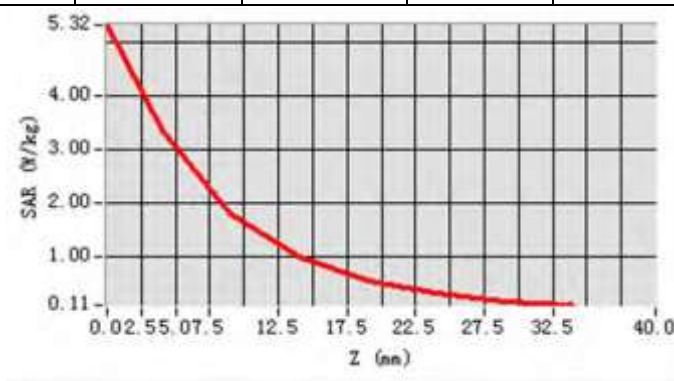
Maximum location: X=2.00, Y=2.00

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

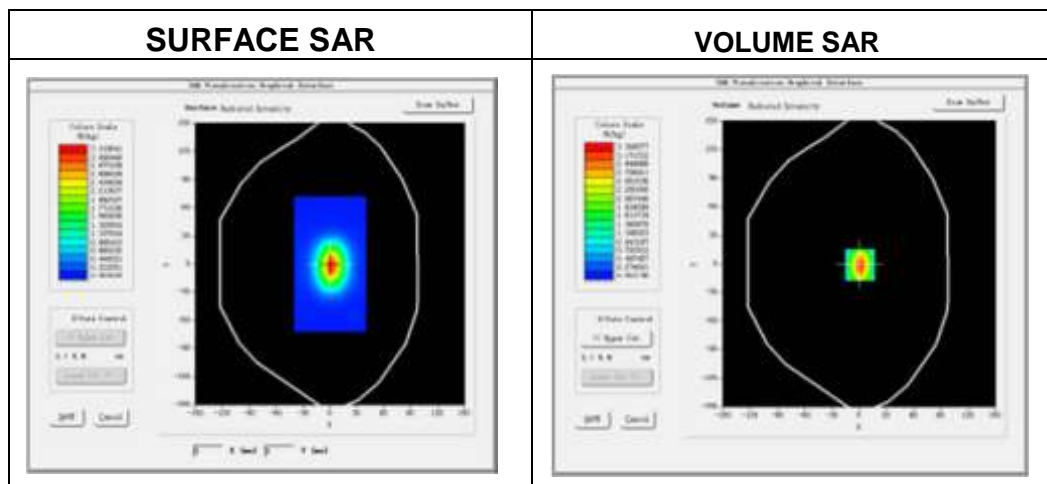
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

Measurement duration: 13 minutes 51seconds

Experimental conditions.

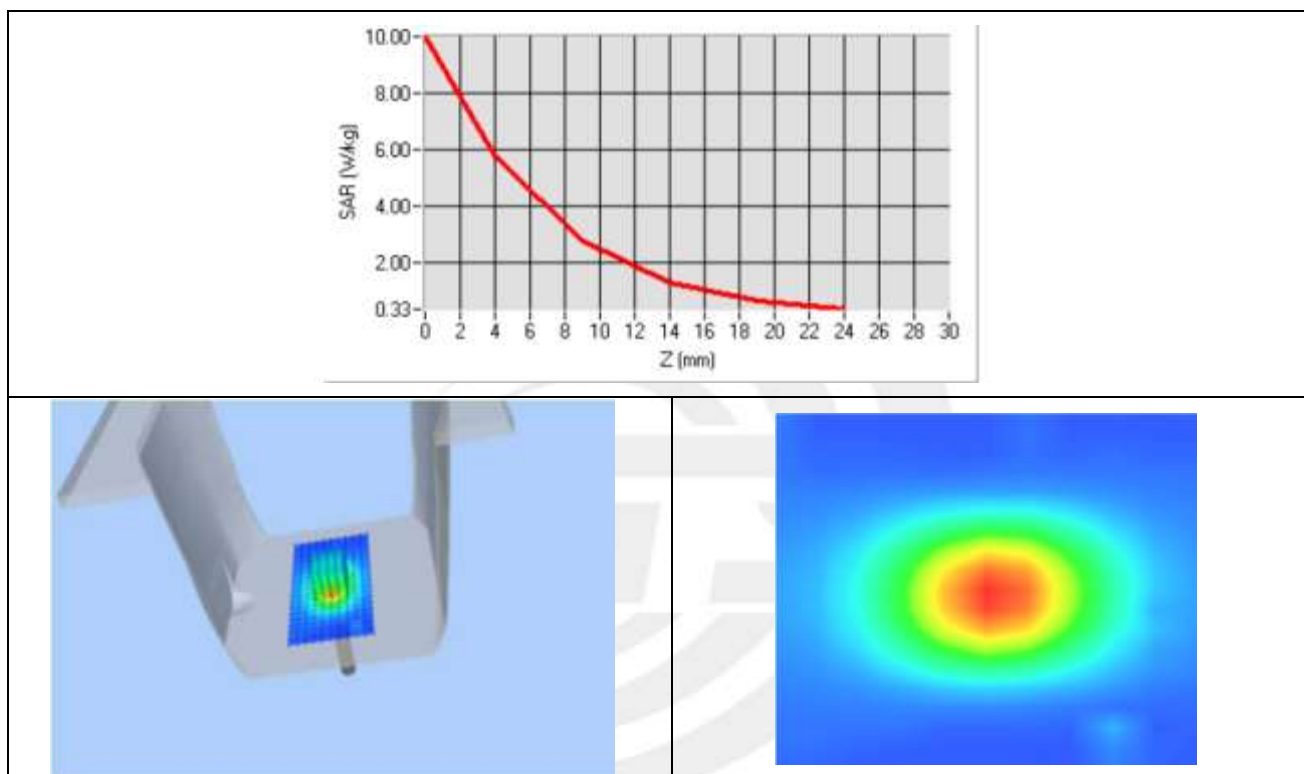
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	39.176002
Relative permittivity	12.930000
Conductivity (S/m)	1.88
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.11
Crest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



Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	2.659359
SAR 1g (W/Kg)	5.593465

Z Axis Scan





System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

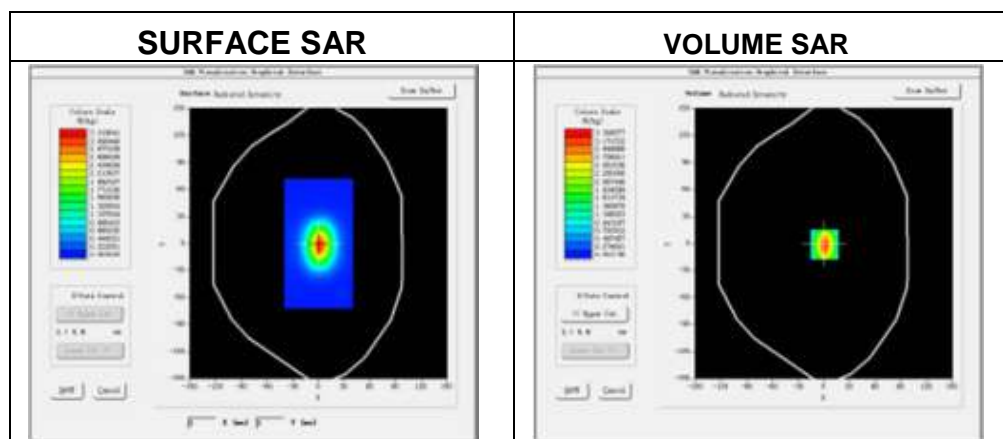
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

Measurement duration: 14 minutes 23 seconds

Experimental conditions.

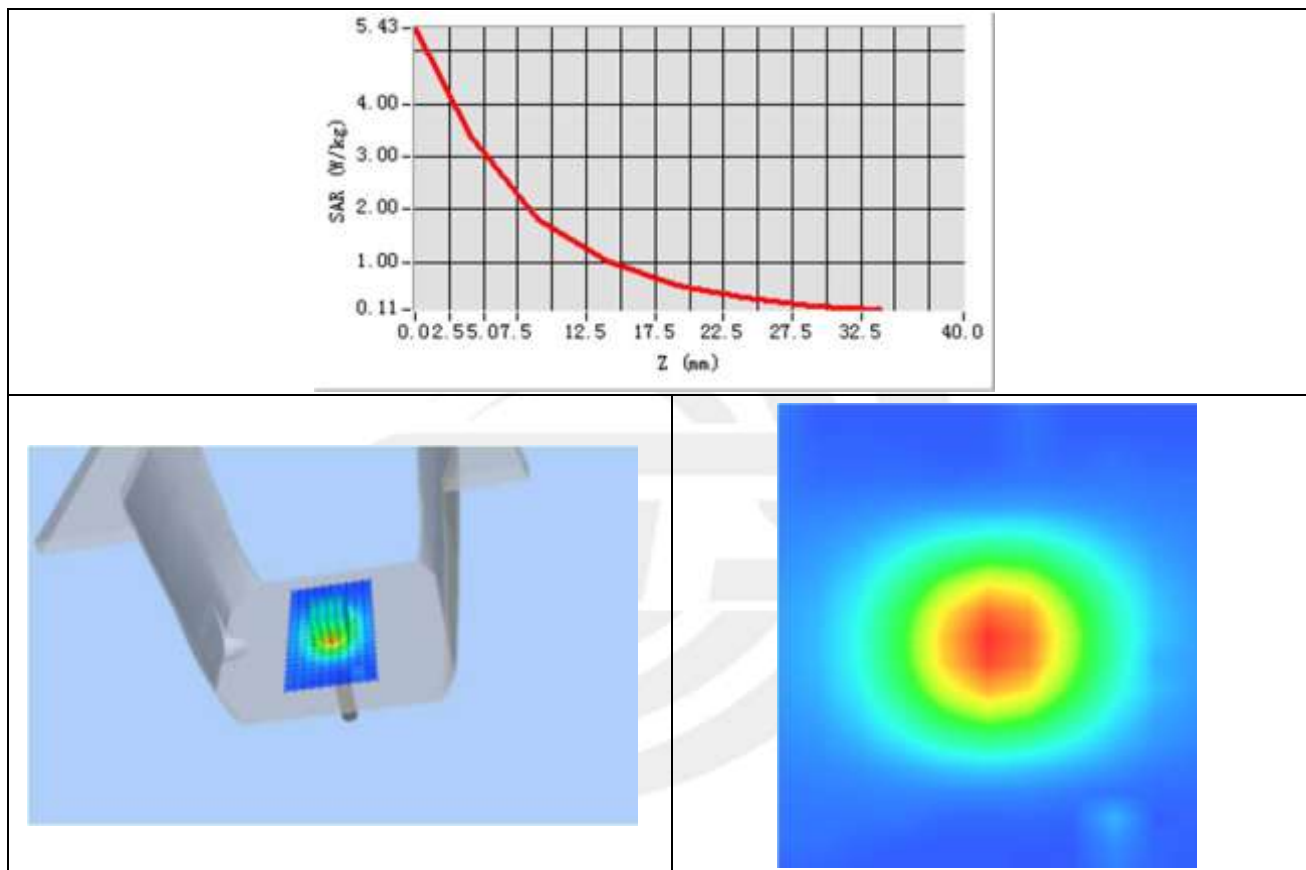
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	52.316002
Relative permittivity	12.930000
Conductivity (S/m)	2.12
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.156894
SAR 1g (W/Kg)	4.864392

Z Axis Scan

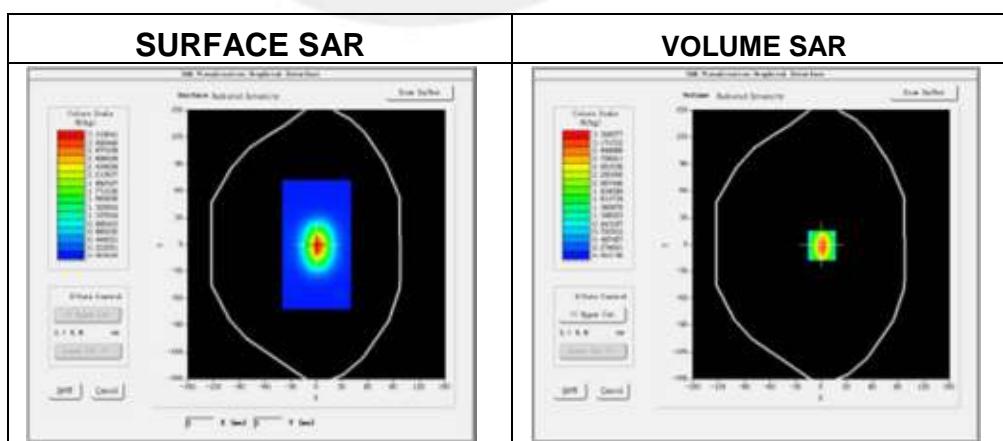


System Performance Check Data(2600MHz Head)

Type: Phone measurement (Complete)
 Area scan resolution: dx=8mm,dy=8mm
 Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
 Date of measurement: 2015-06-08

Experimental conditions.

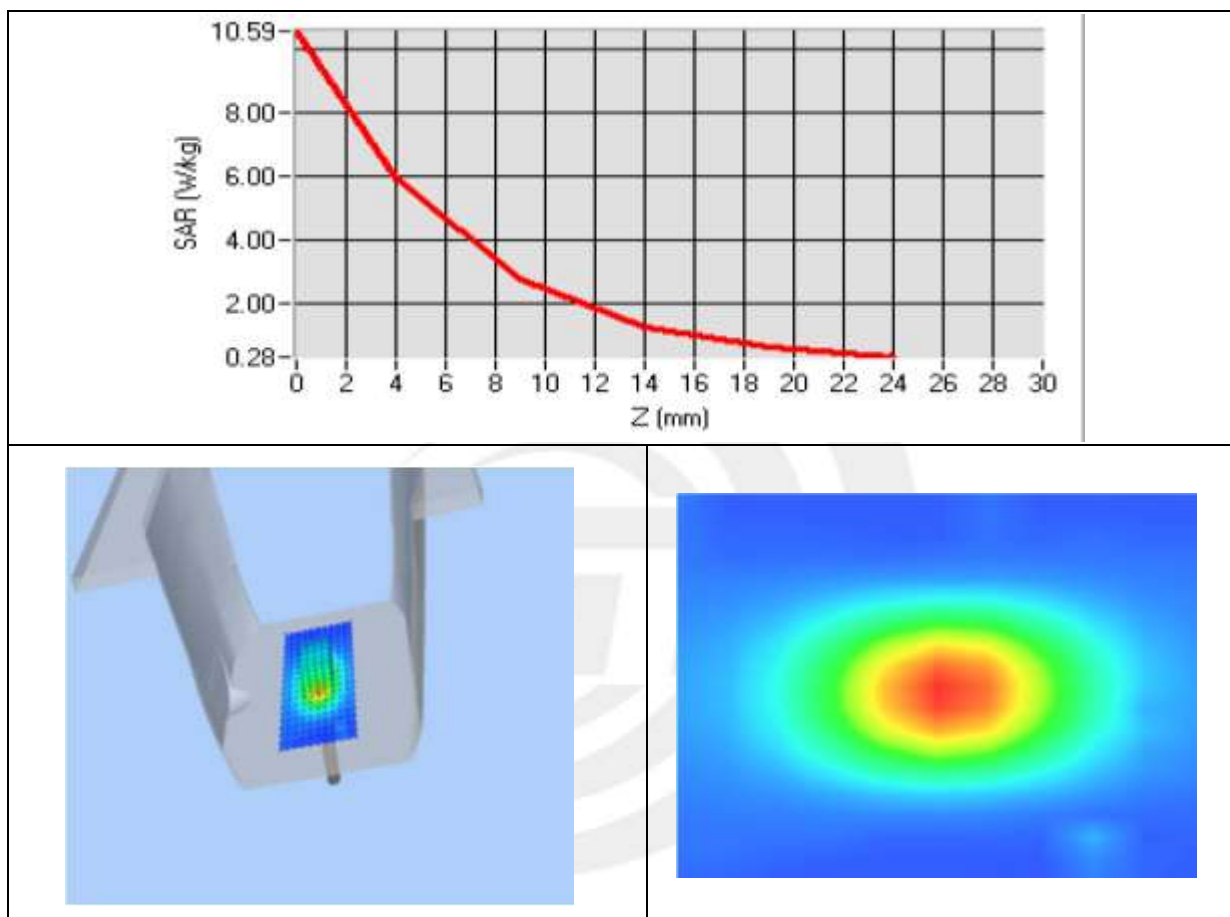
Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity (real part)	38.52544
Relative permittivity	12.862300
Conductivity (S/m)	1.92000
Power drift (%)	-0.2600000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.20
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.468341
SAR 1g (W/Kg)	5.452358

Z Axis Scan





System Performance Check Data(2600MHz Body)

Type: Phone measurement (Complete)

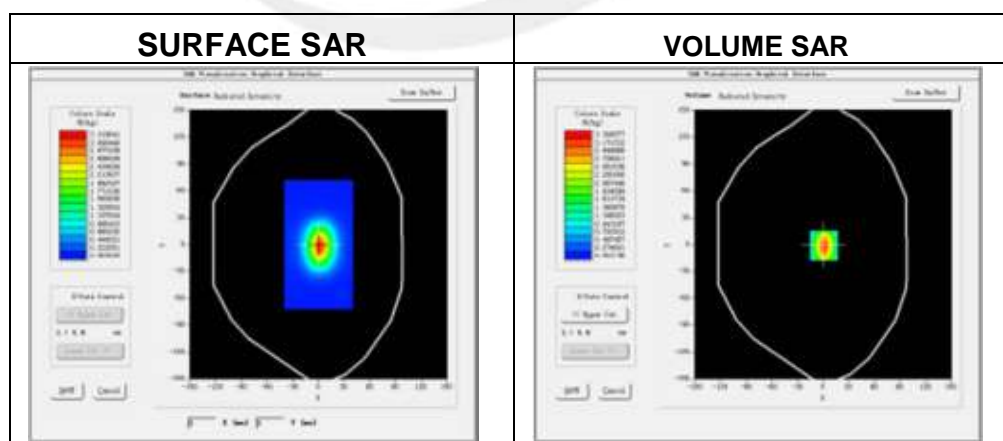
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-06-08

Experimental conditions.

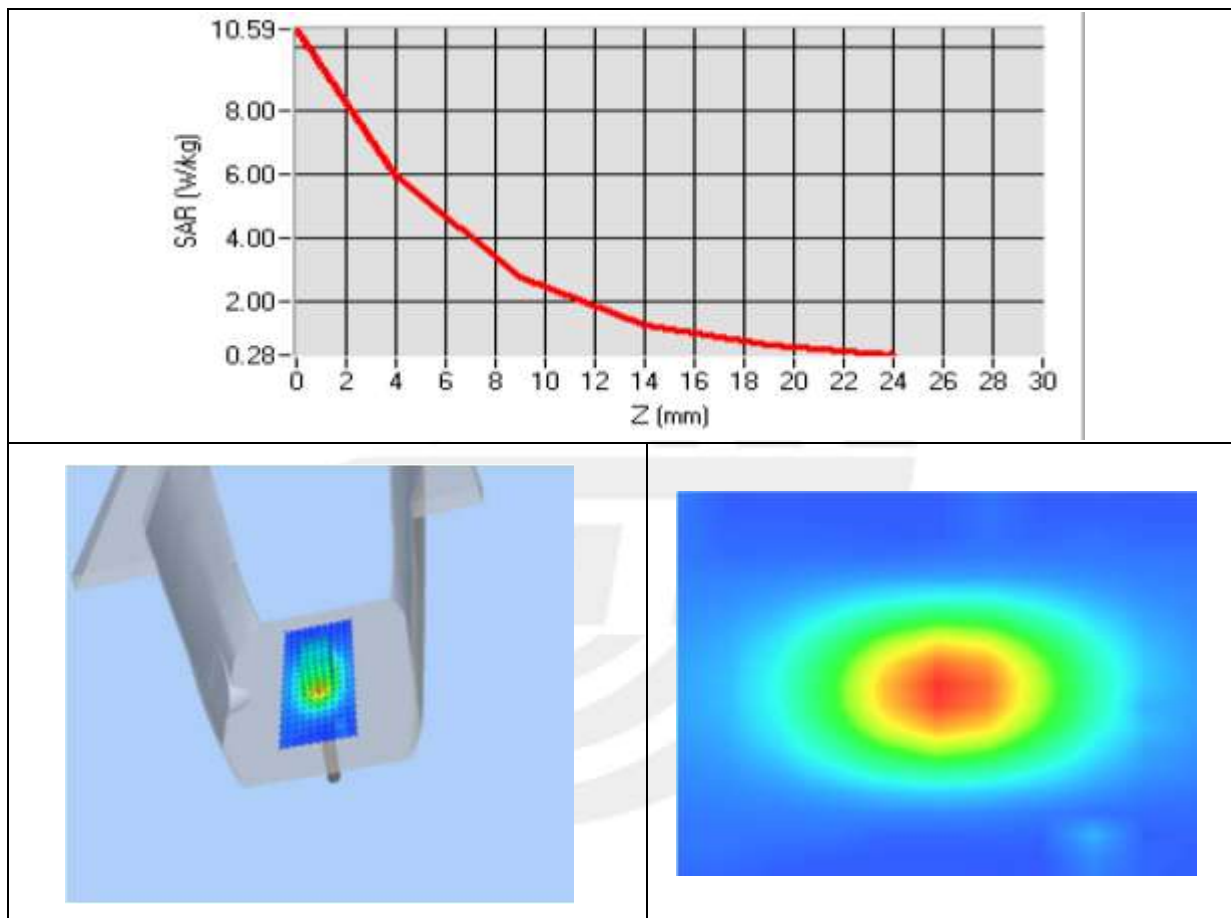
Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity (real part)	52.36814
Relative permittivity	12.62485
Conductivity (S/m)	2.12000
Power drift (%)	2.31
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.32
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.398862
SAR 1g (W/Kg)	5.413682

Z Axis Scan



Appendix B. SAR Test Plots

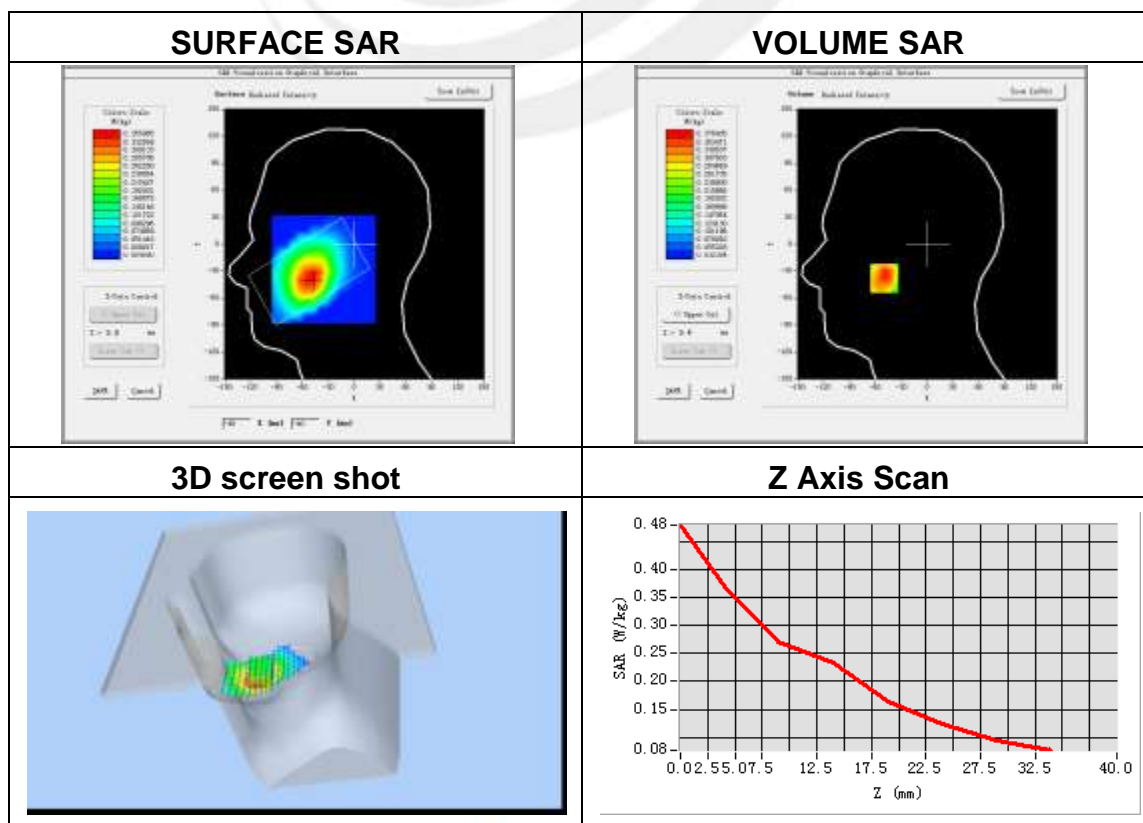
Plot 1: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	3.11

Maximum location: X=-50.00, Y=-38.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.248959
SAR 1g (W/Kg)	0.372430

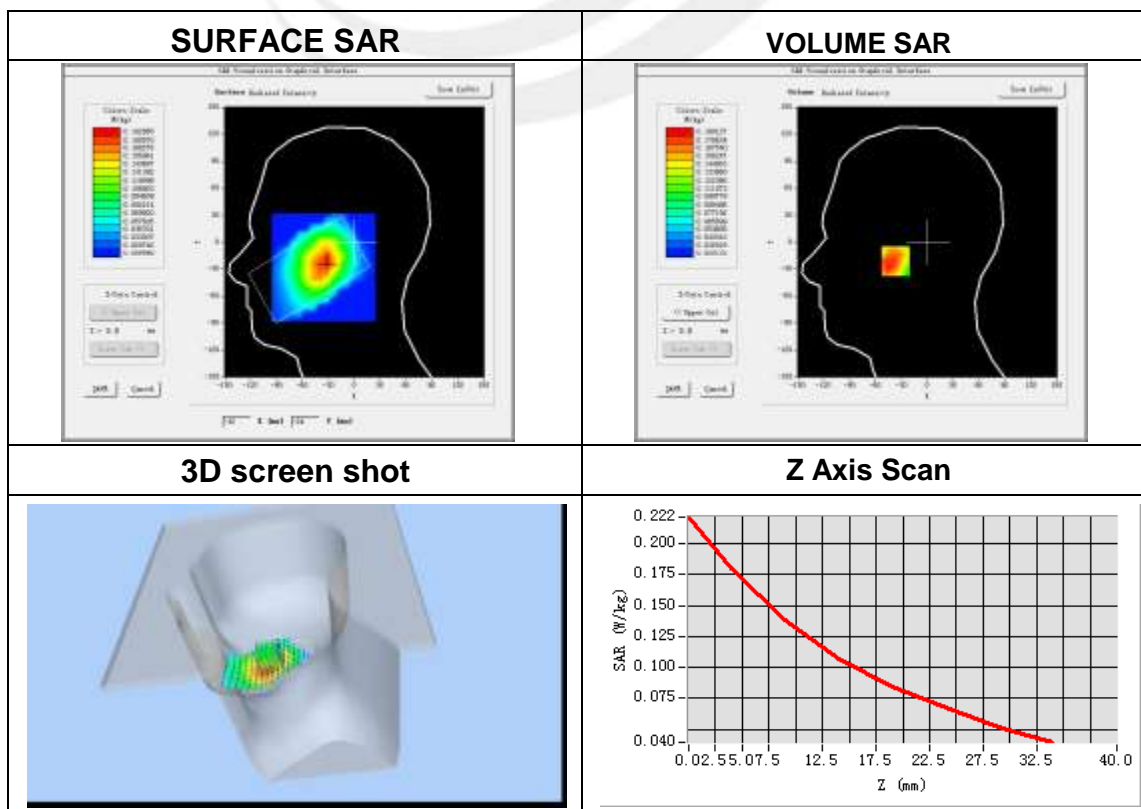


Plot 2: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	1.01

**Maximum location: X=-32.00, Y=-21.00
SAR Peak: 0.26 W/kg**

SAR 10g (W/Kg)	0.129302
SAR 1g (W/Kg)	0.182074



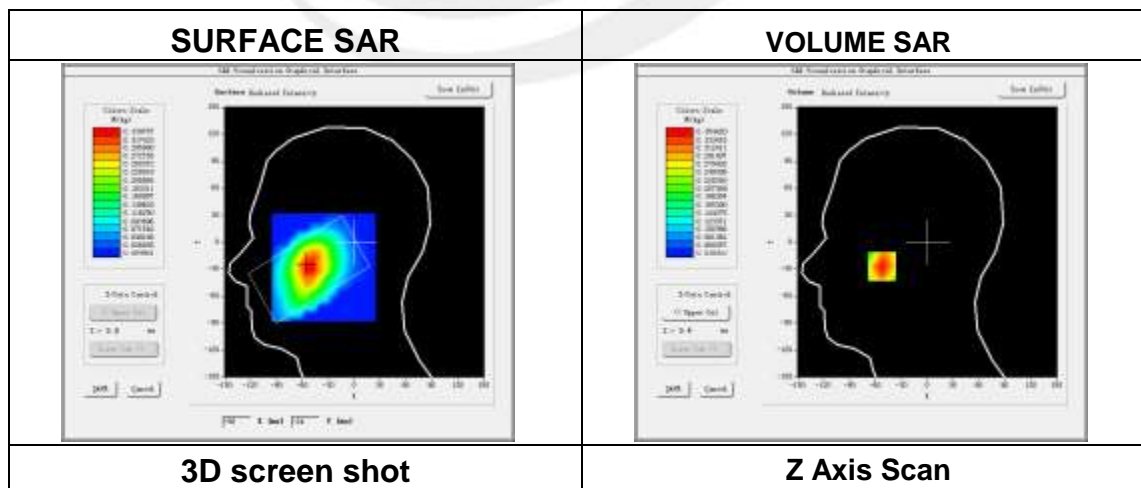
Plot 3: DUT: smart phone; EUT Model: Ilium L200

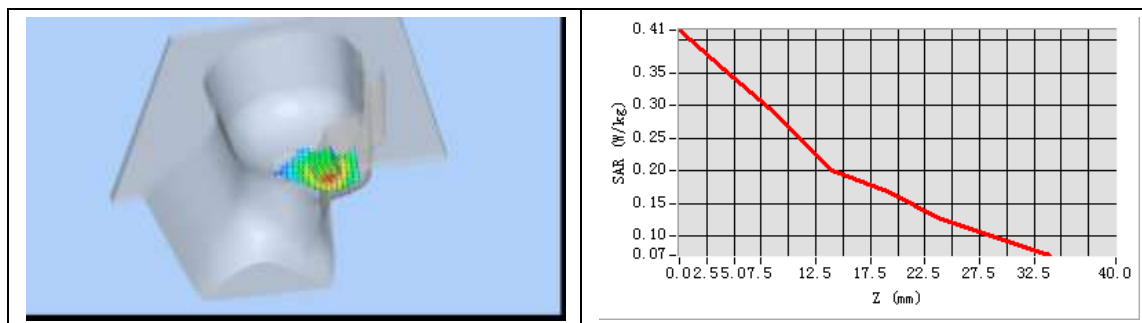
Test Data	2015-06-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	1.80

Maximum location: X=-53.00, Y=-27.00

SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.238608
SAR 1g (W/Kg)	0.336071





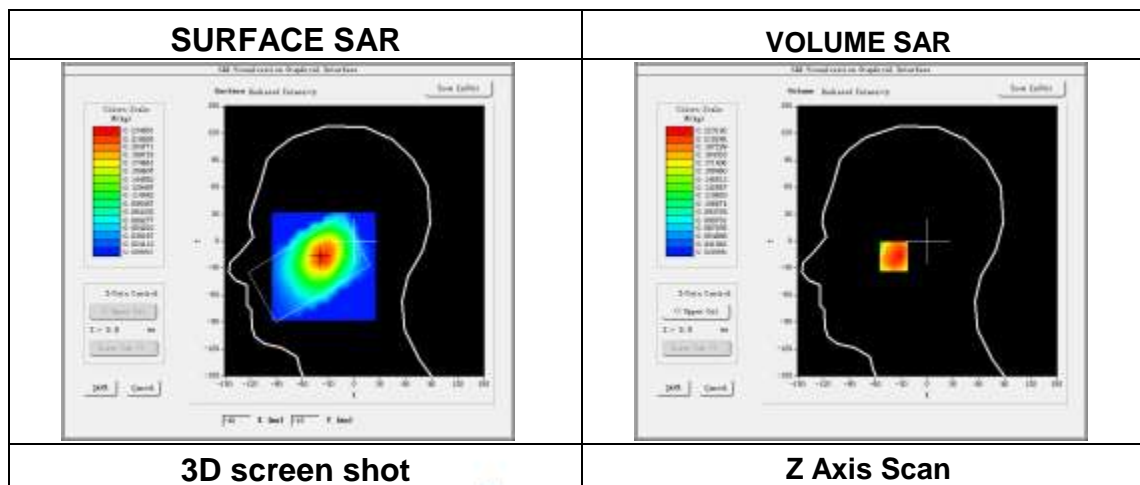
Plot 4: DUT: smart phone; EUT Model: Ilium L200

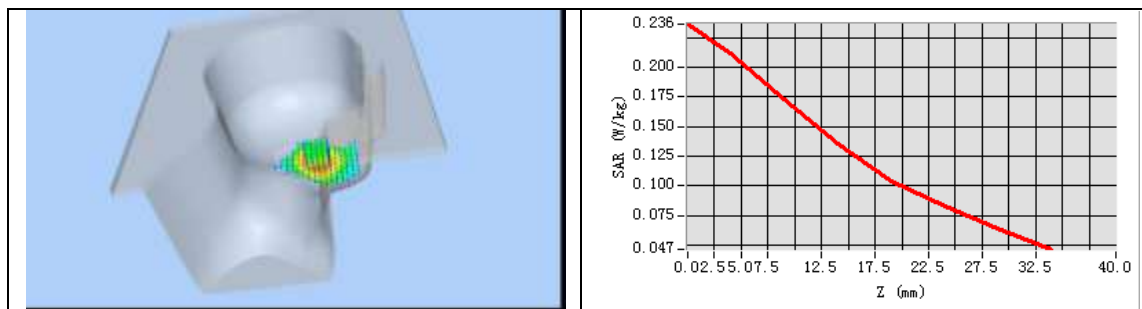
Test Data	2015-06-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-1.17

Maximum location: X=-39.00, Y=-17.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.155591
SAR 1g (W/Kg)	0.214798





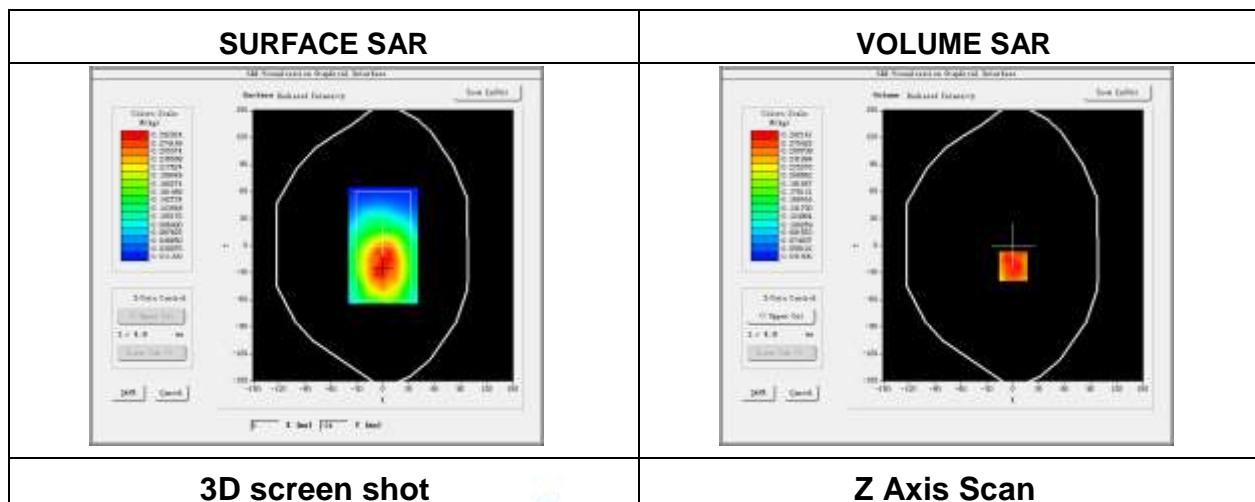
Plot 5: DUT: smart phone; EUT Model: Ilium L200

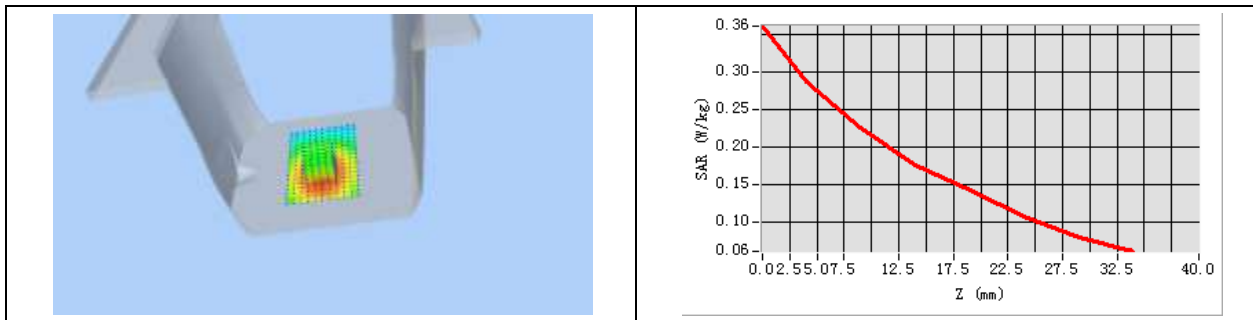
Test Data	2015-06-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	EGPRS 850
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.77

Maximum location: X=0.00, Y=-23.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.208991
SAR 1g (W/Kg)	0.287833





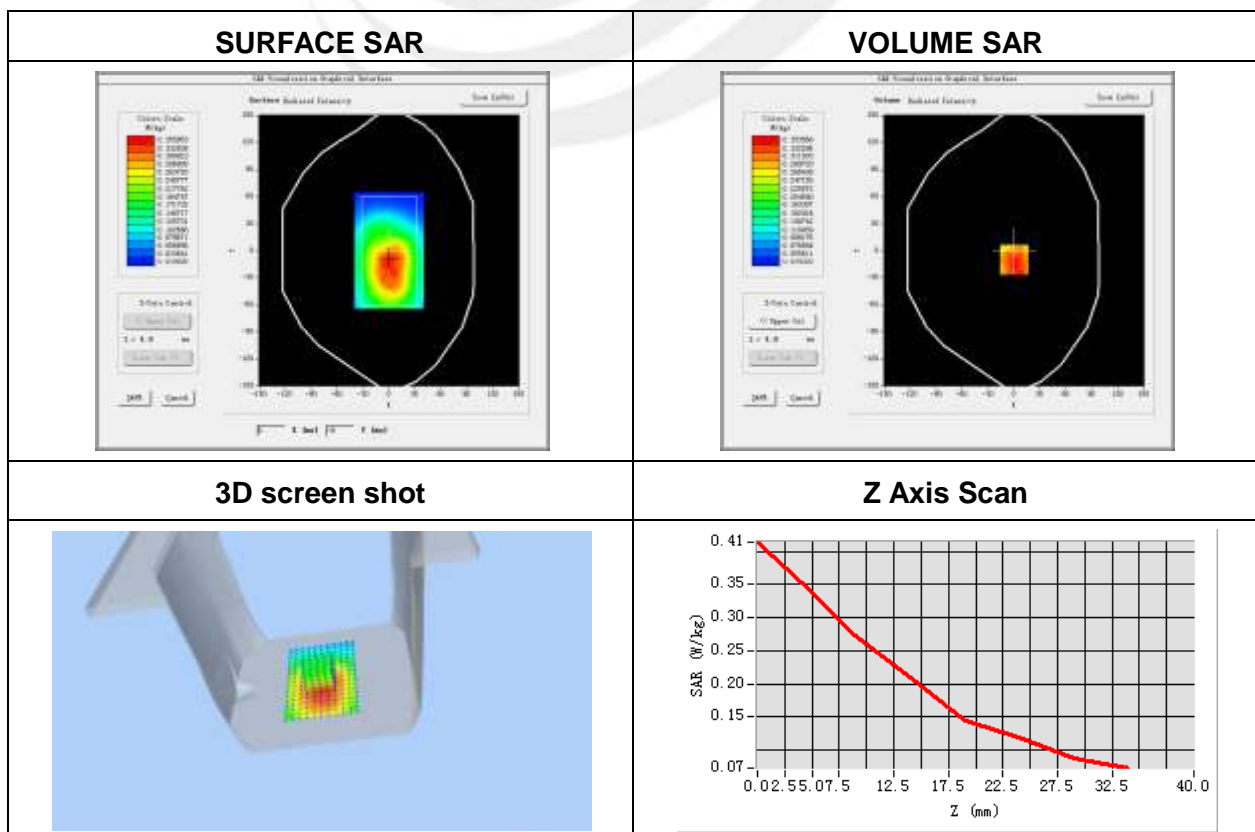
Plot 6: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	EGPRS 850
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-2.00

Maximum location: X=0.00, Y=-10.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.249122
SAR 1g (W/Kg)	0.332942



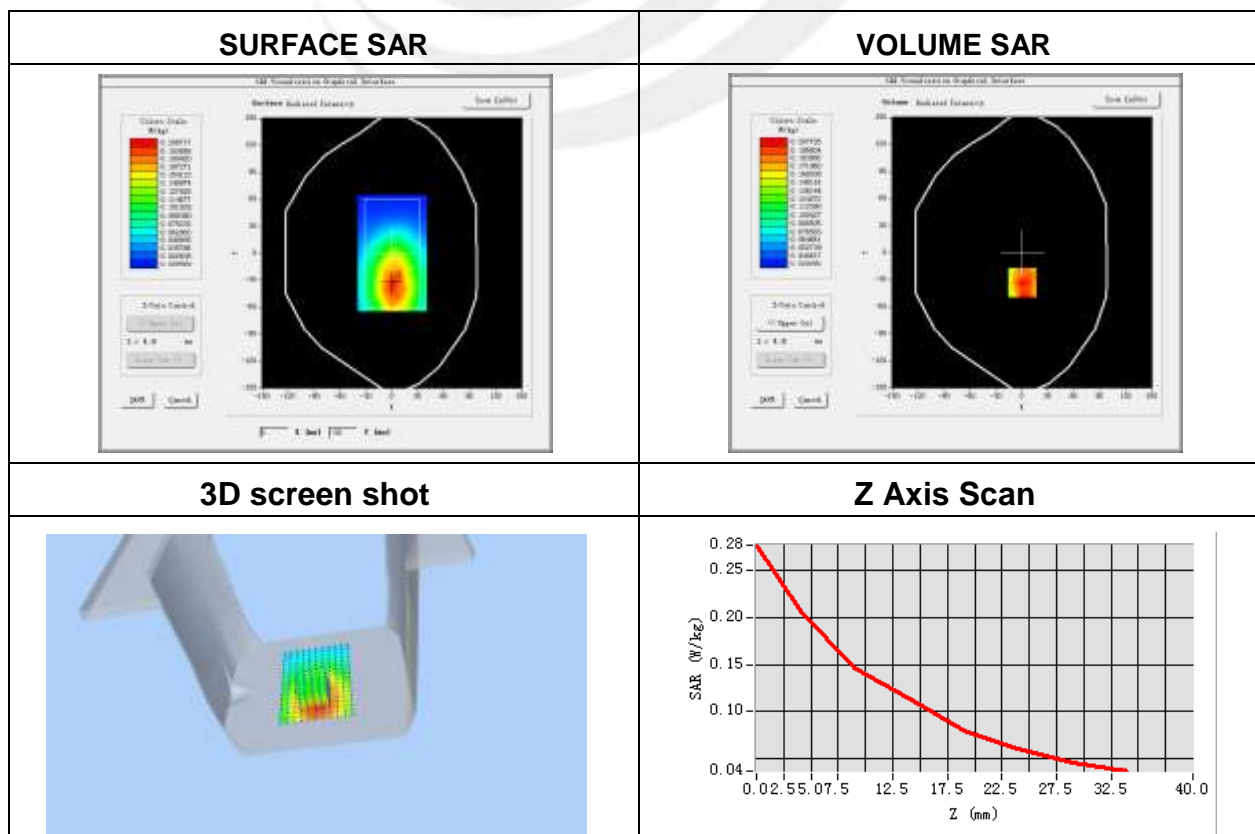
Plot 7: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	EGPRS 850
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.88

Maximum location: X=0.00, Y=-33.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.138624
SAR 1g (W/Kg)	0.197010

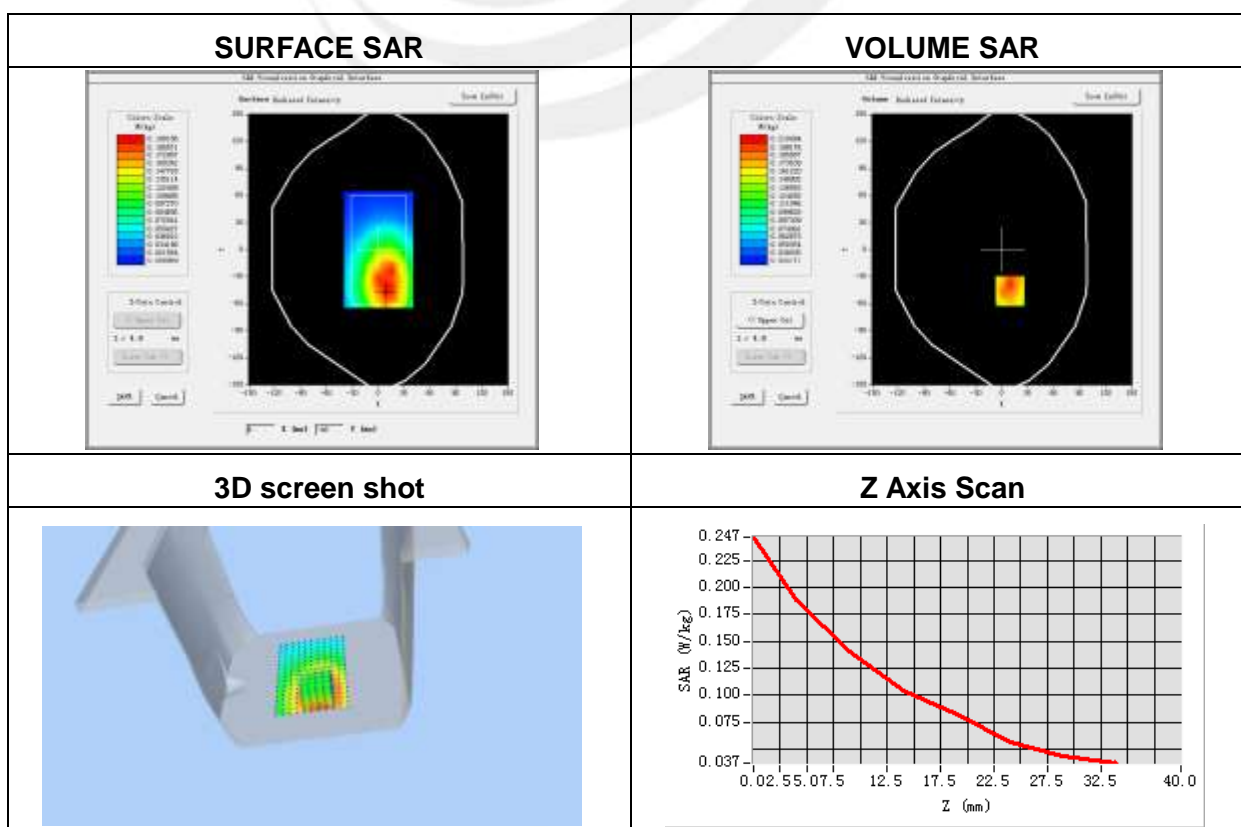


Plot 8: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	EGPRS 850
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-1.01

**Maximum location: X=9.00, Y=-46.00
SAR Peak: 0.29 W/kg**

SAR 10g (W/Kg)	0.134704
SAR 1g (W/Kg)	0.196368



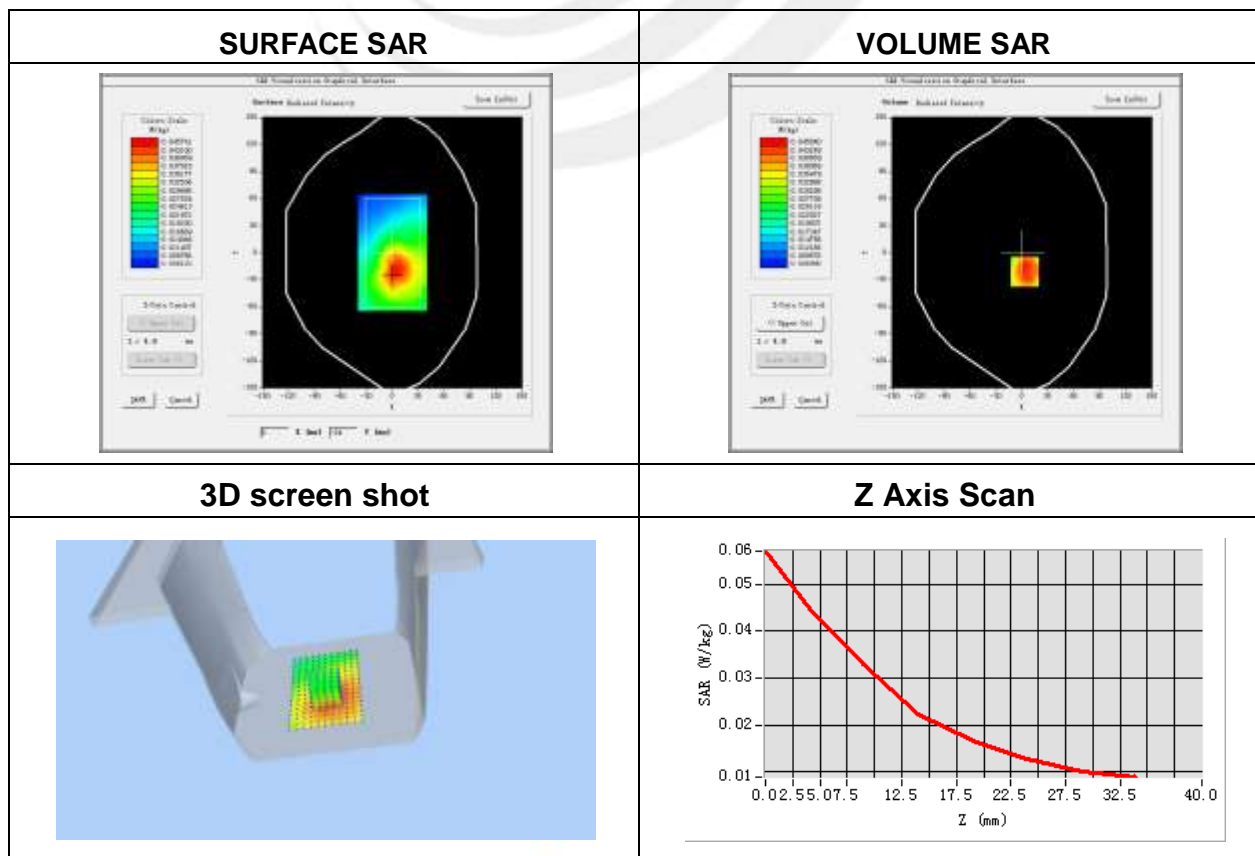
Plot 9: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	EGPRS 850
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	0.41

Maximum location: X=3.00, Y=-21.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.029411
SAR 1g (W/Kg)	0.043721



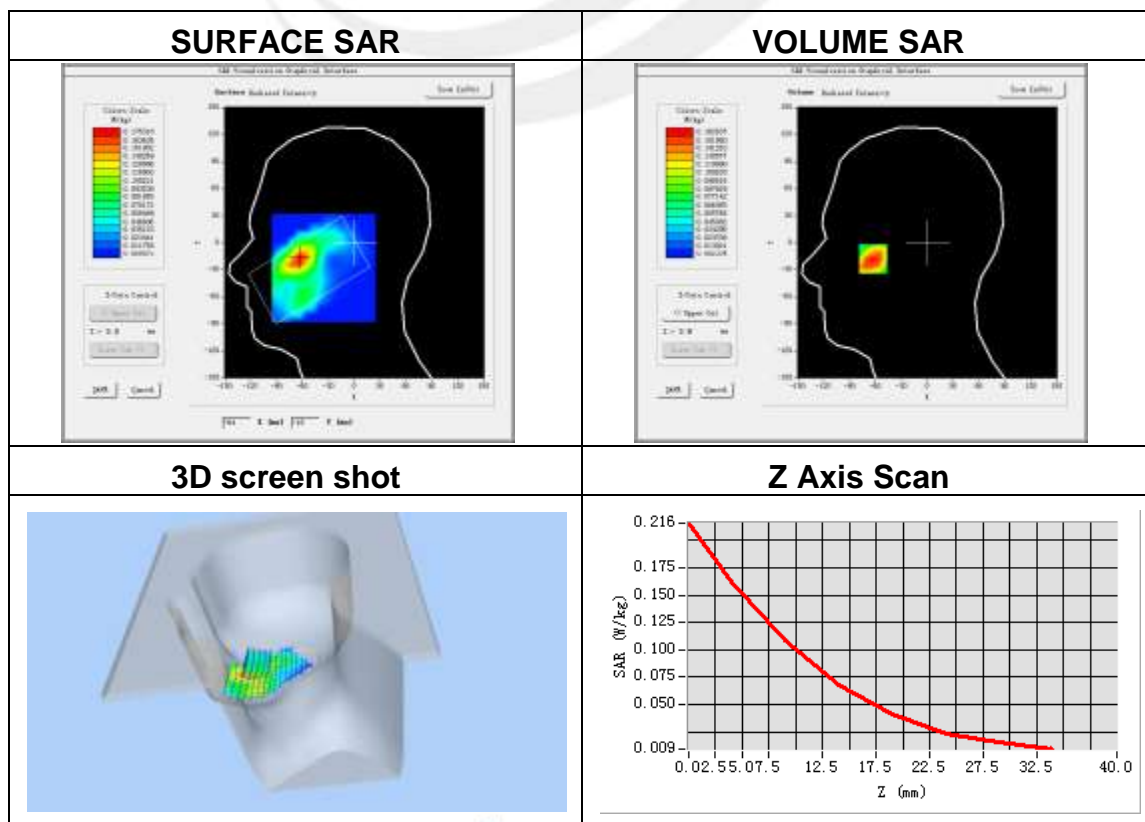
Plot 10: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	1.11

Maximum location: X=-63.00, Y=-17.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.090815
SAR 1g (W/Kg)	0.157779



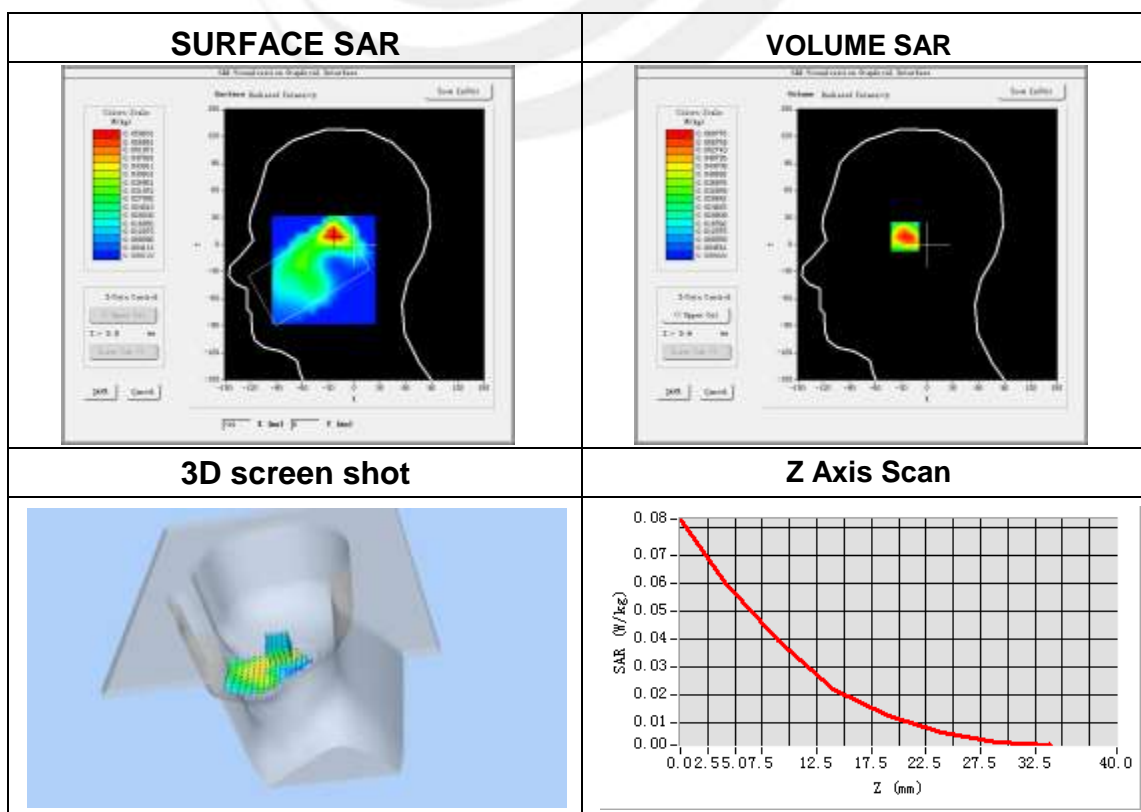
Plot 11: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-1.33

Maximum location: X=-24.00, Y=11.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.031900
SAR 1g (W/Kg)	0.058257

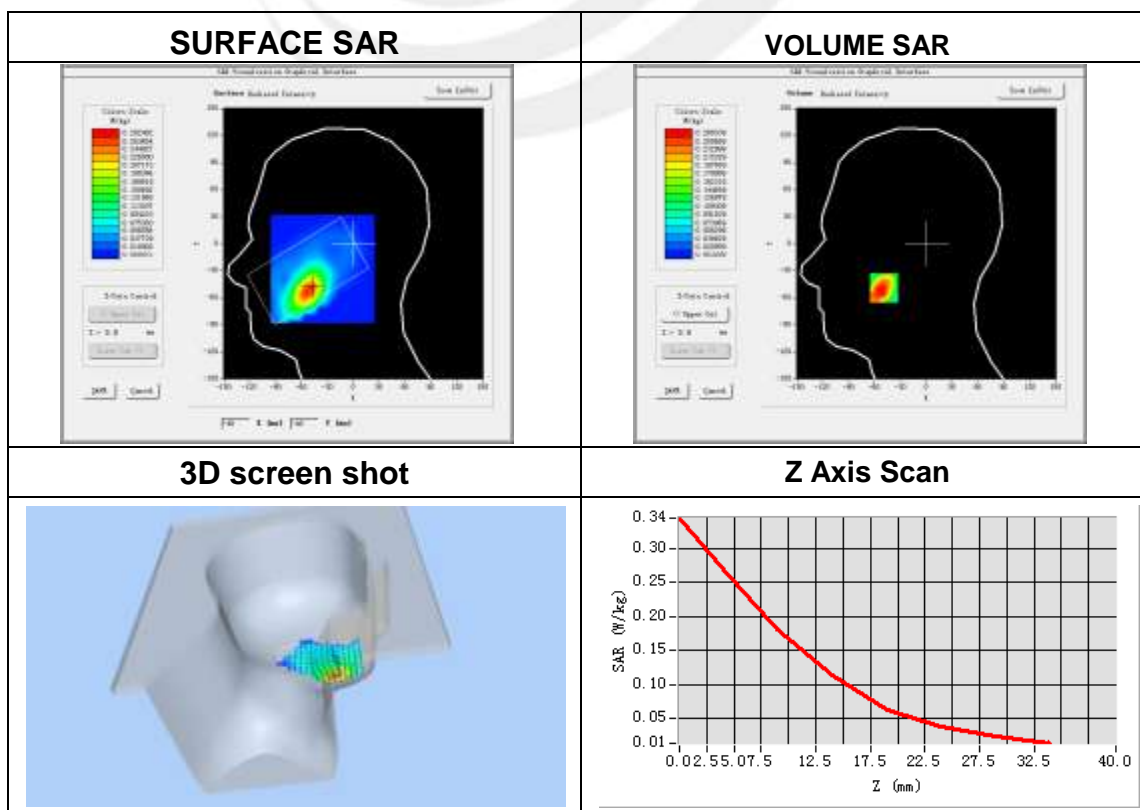


Plot 12: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	3.08

Maximum location: X=-49.00, Y=-49.00
SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.150064
SAR 1g (W/Kg)	0.265380

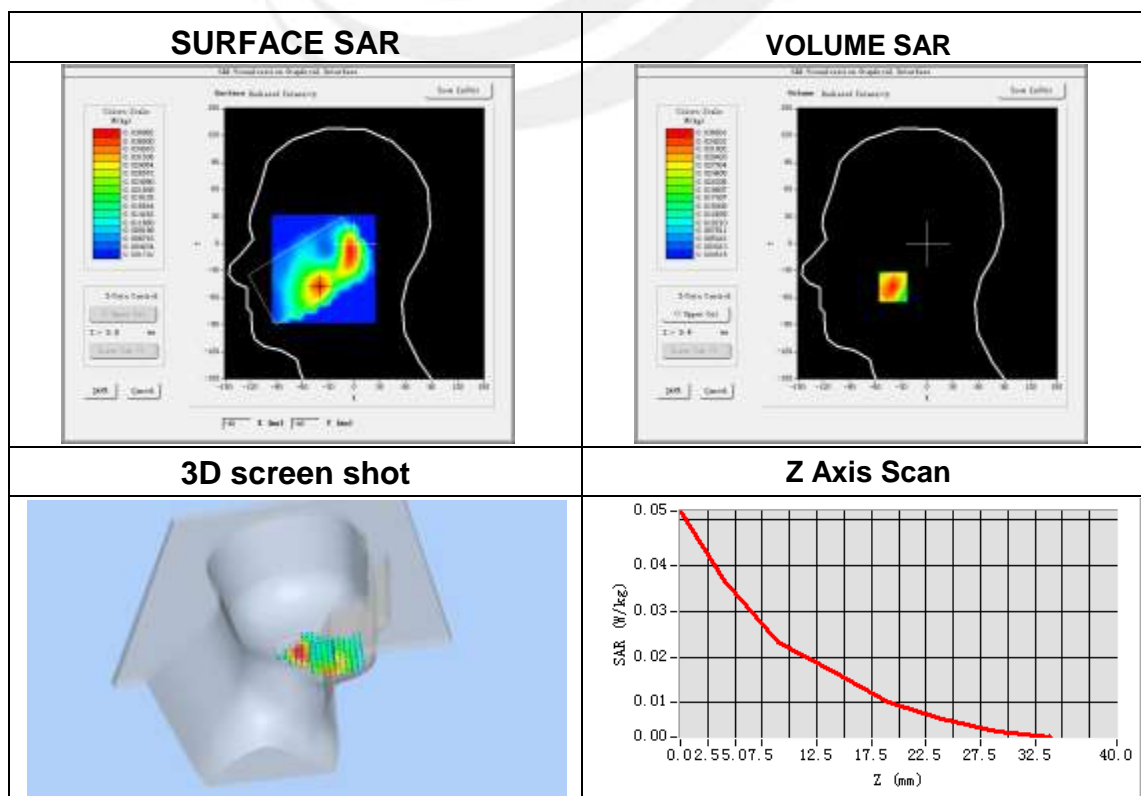


Plot 13: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	4.03

**Maximum location: X=-40.00, Y=-48.00
SAR Peak: 0.05 W/kg**

SAR 10g (W/Kg)	0.020702
SAR 1g (W/Kg)	0.034918

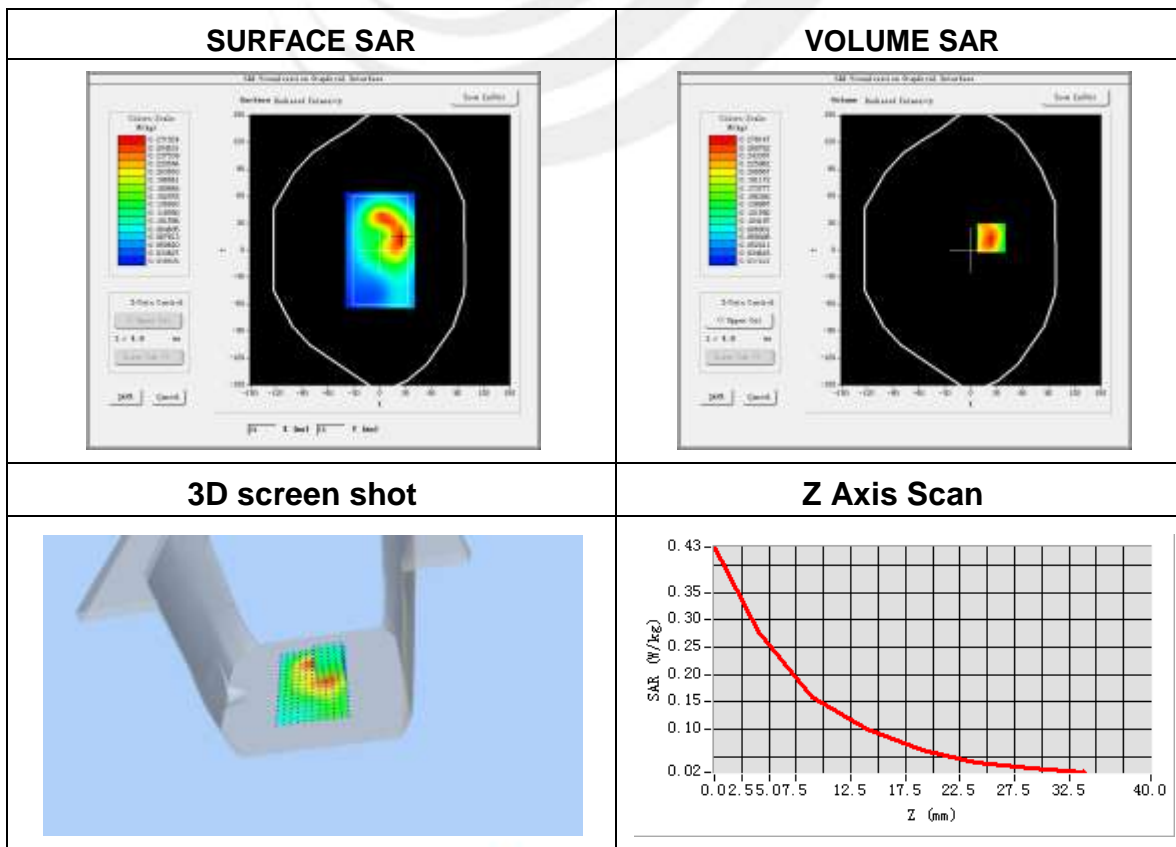


Plot 14: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.22

Maximum location: X=23.00, Y=14.00
SAR Peak:0.43 W/kg

SAR 10g (W/Kg)	0.151207
SAR 1g (W/Kg)	0.266305

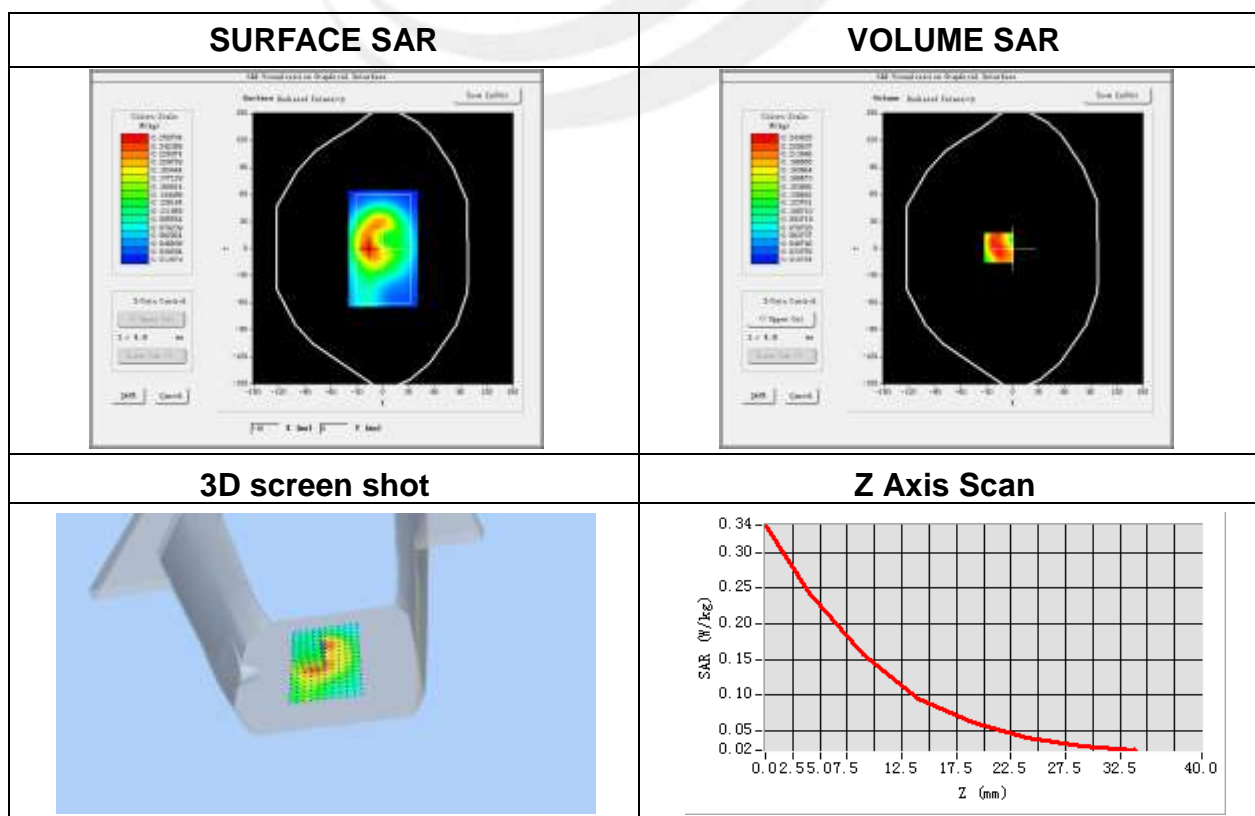


Plot 15: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.46

**Maximum location: X=-17.00, Y=1.00
SAR Peak: 0.39 W/kg**

SAR 10g (W/Kg)	0.140370
SAR 1g (W/Kg)	0.238694

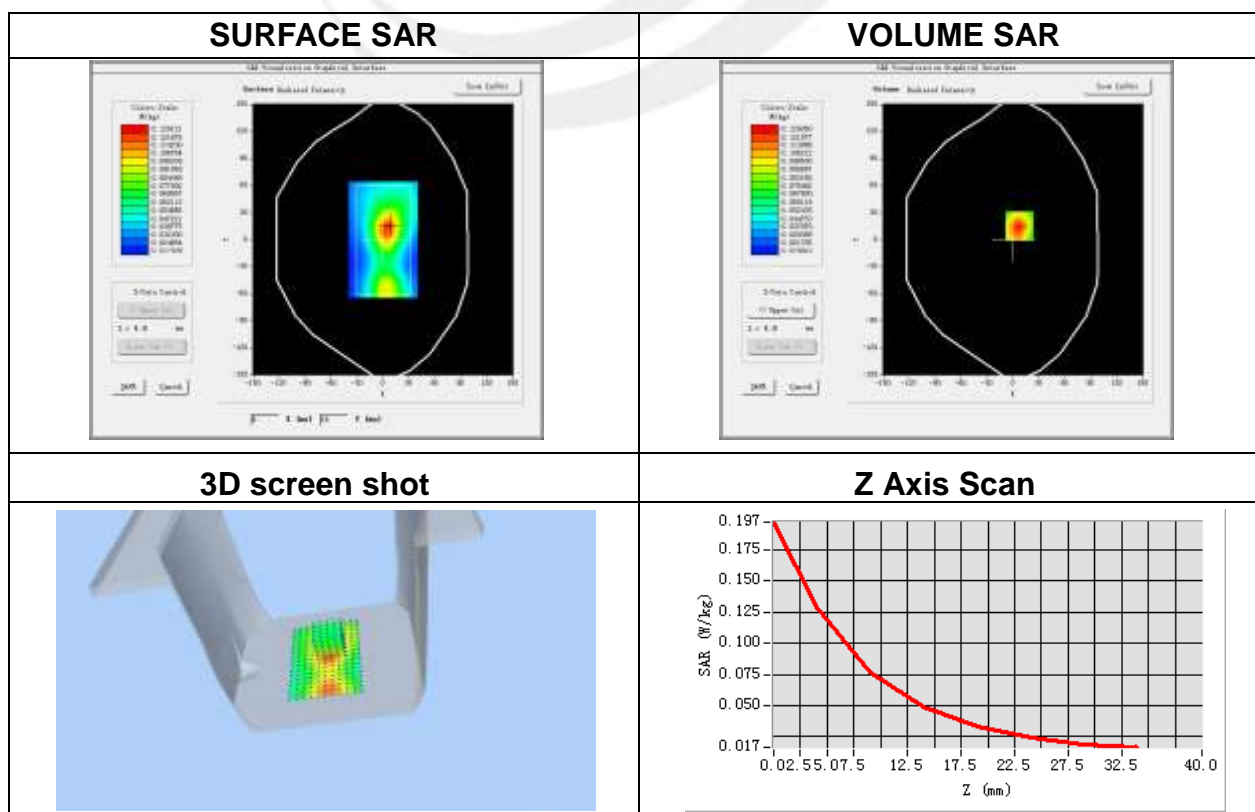


Plot 16: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-2.49

**Maximum location: X=7.00, Y=15.00
SAR Peak: 0.08 W/kg**

SAR 10g (W/Kg)	0.051345
SAR 1g (W/Kg)	0.064876

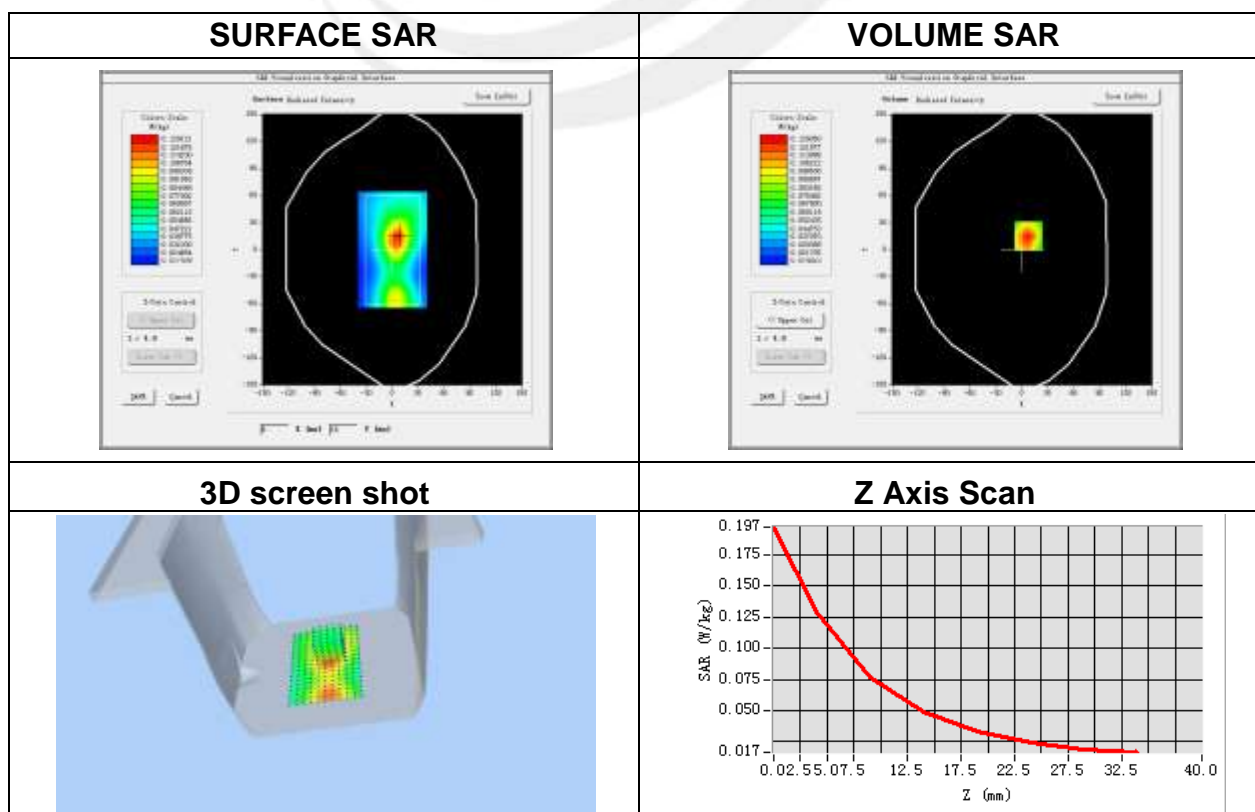


Plot 17: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.02

**Maximum location: X=7.00, Y=15.00
SAR Peak: 0.20 W/kg**

SAR 10g (W/Kg)	0.073306
SAR 1g (W/Kg)	0.124008



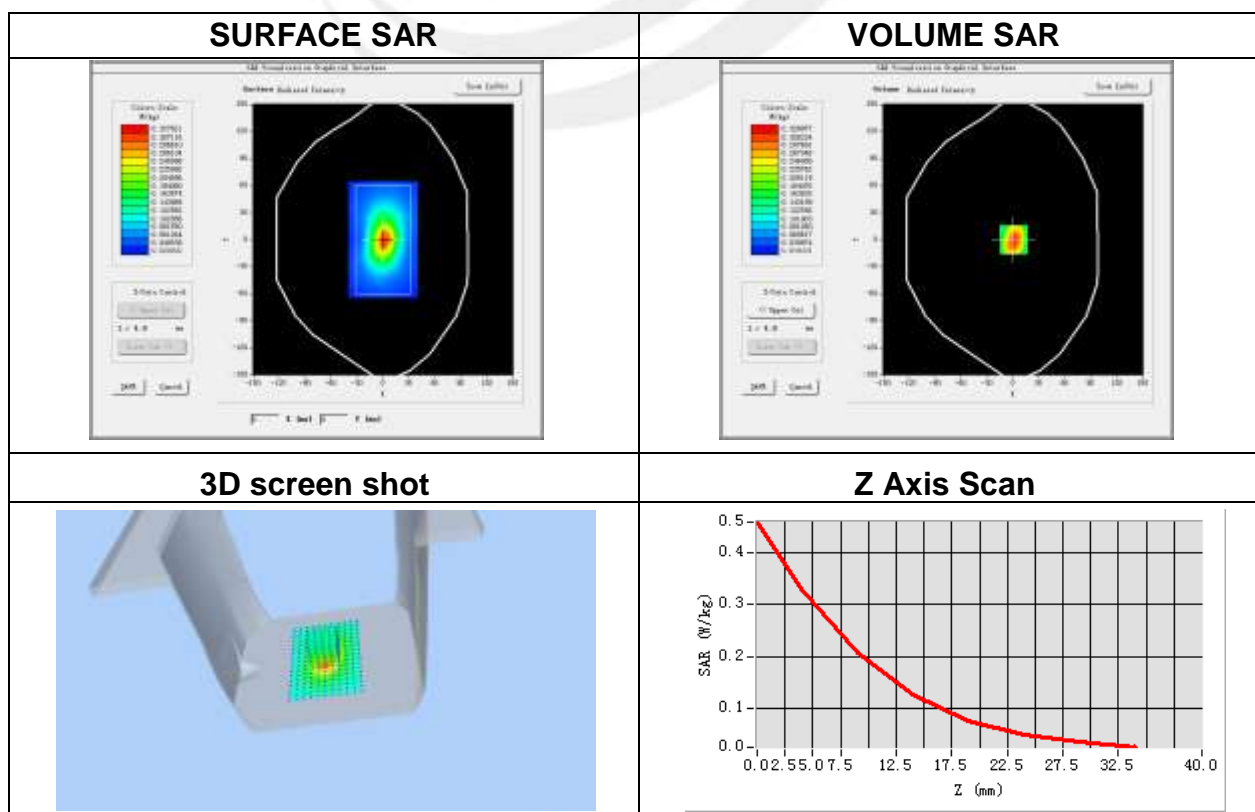
Plot 18: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	3.04

Maximum location: X=1.00, Y=0.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.177150
SAR 1g (W/Kg)	0.311804



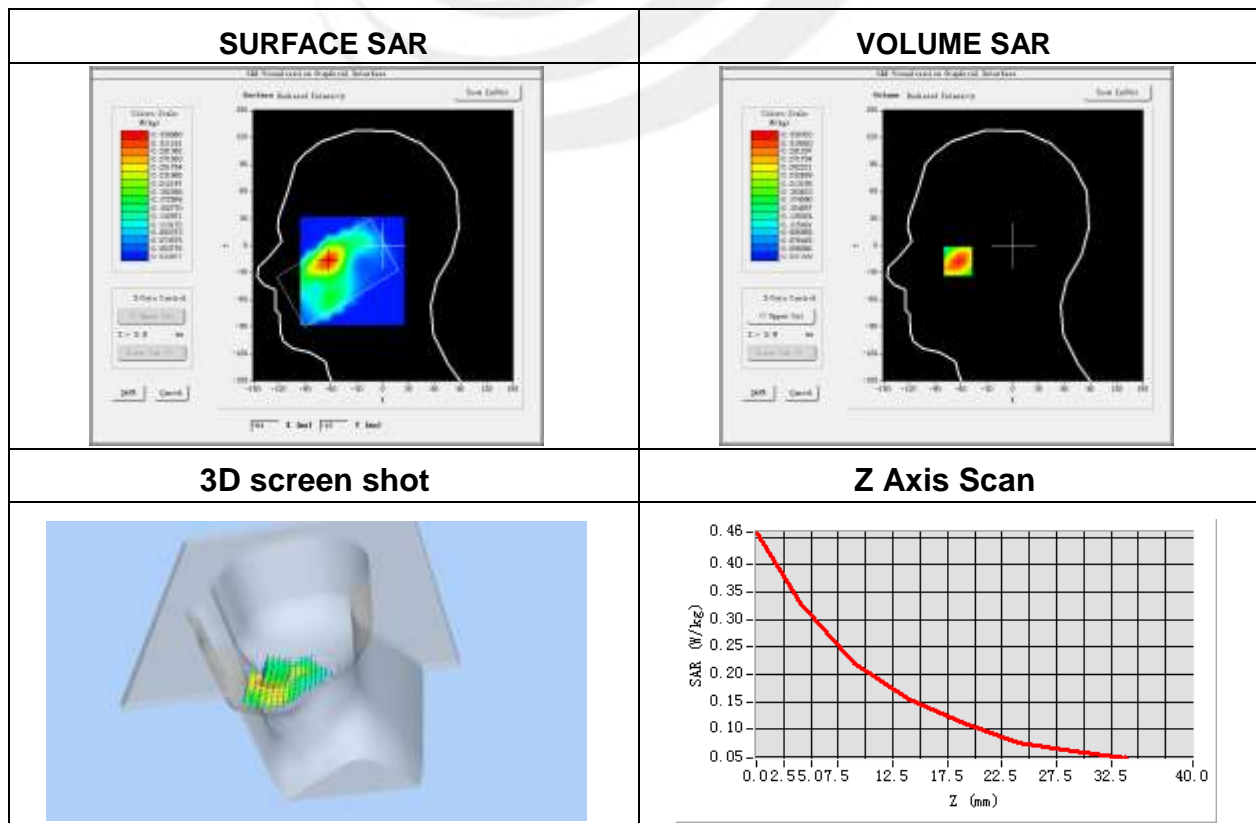
Plot 19: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	0.85

Maximum location: X=-64.00, Y=-16.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.199525
SAR 1g (W/Kg)	0.320336



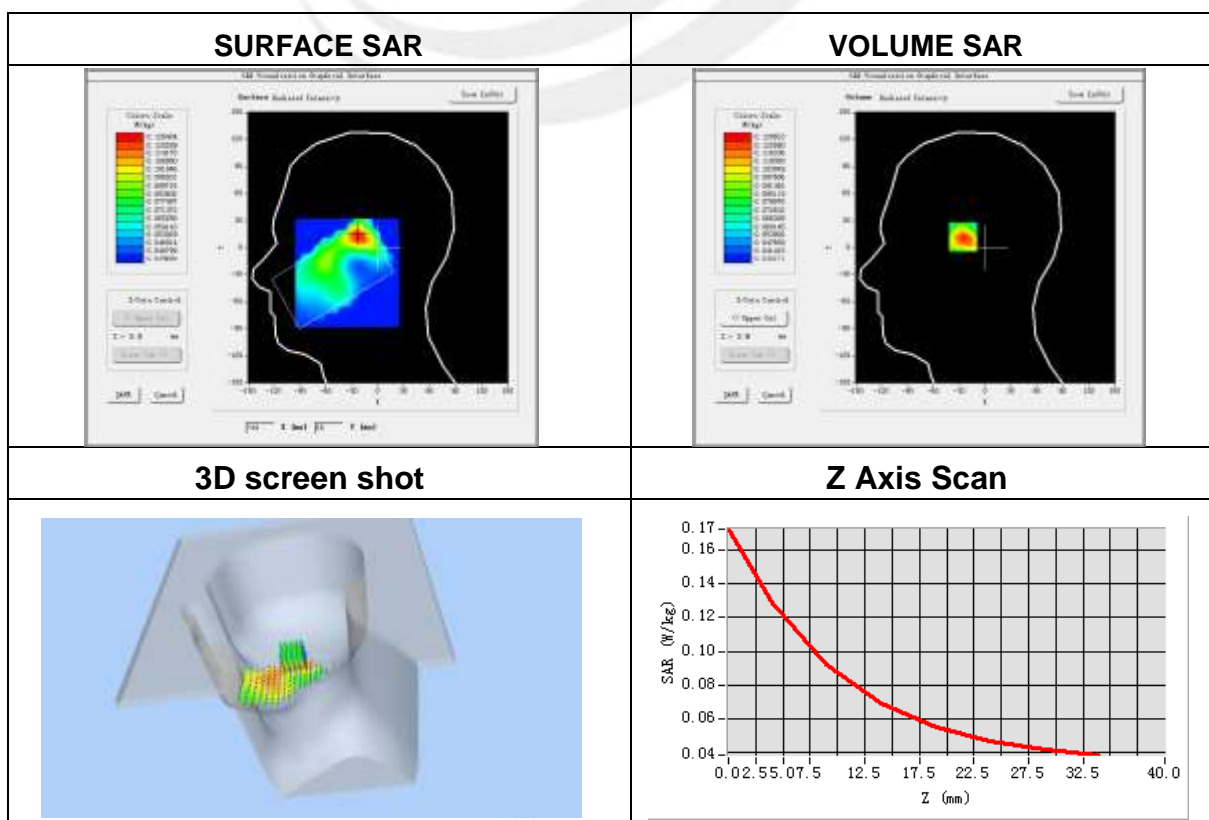
Plot 20: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	1.21

Maximum location: X=-24.00, Y=14.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.084742
SAR 1g (W/Kg)	0.125668

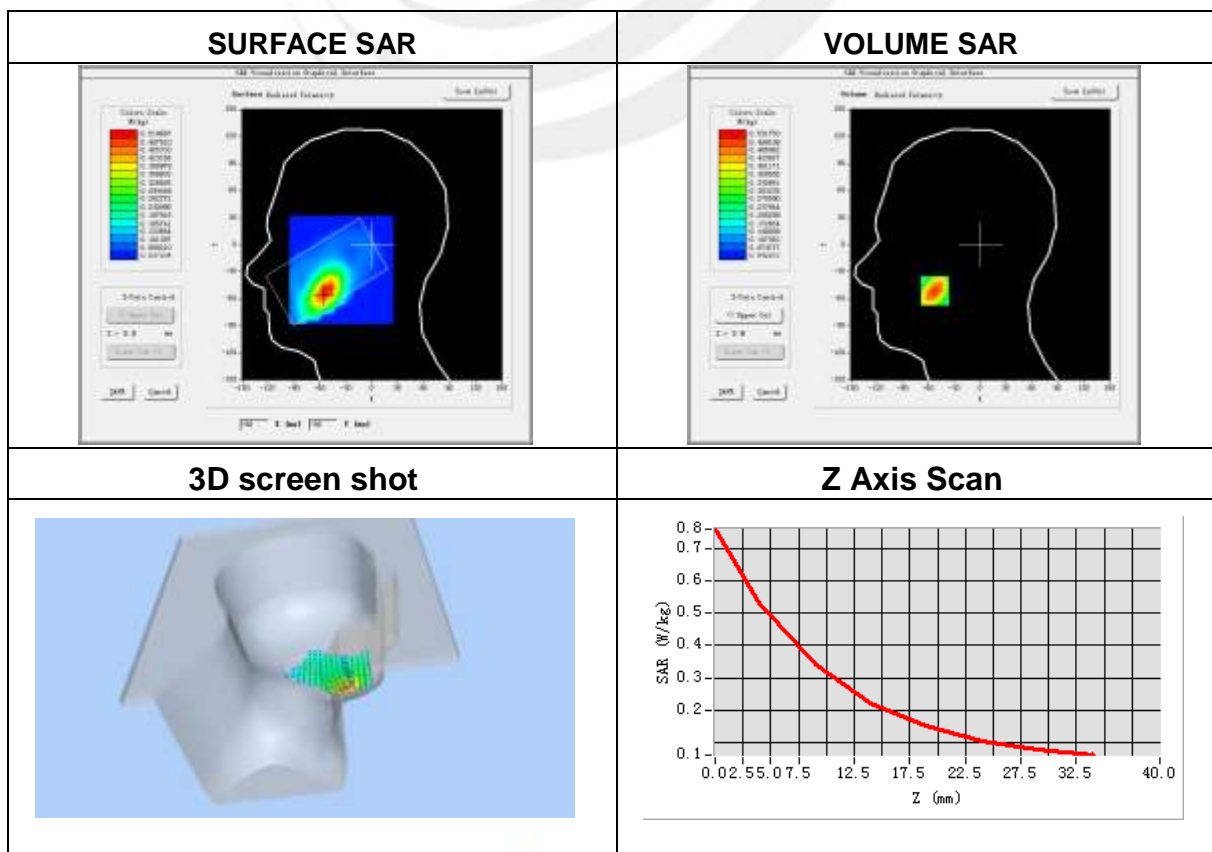


Plot 21: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	2.32

Maximum location: X=-53.00, Y=-51.00
SAR Peak: 0.76 W/kg

SAR 10g (W/Kg)	0.301284
SAR 1g (W/Kg)	0.511254



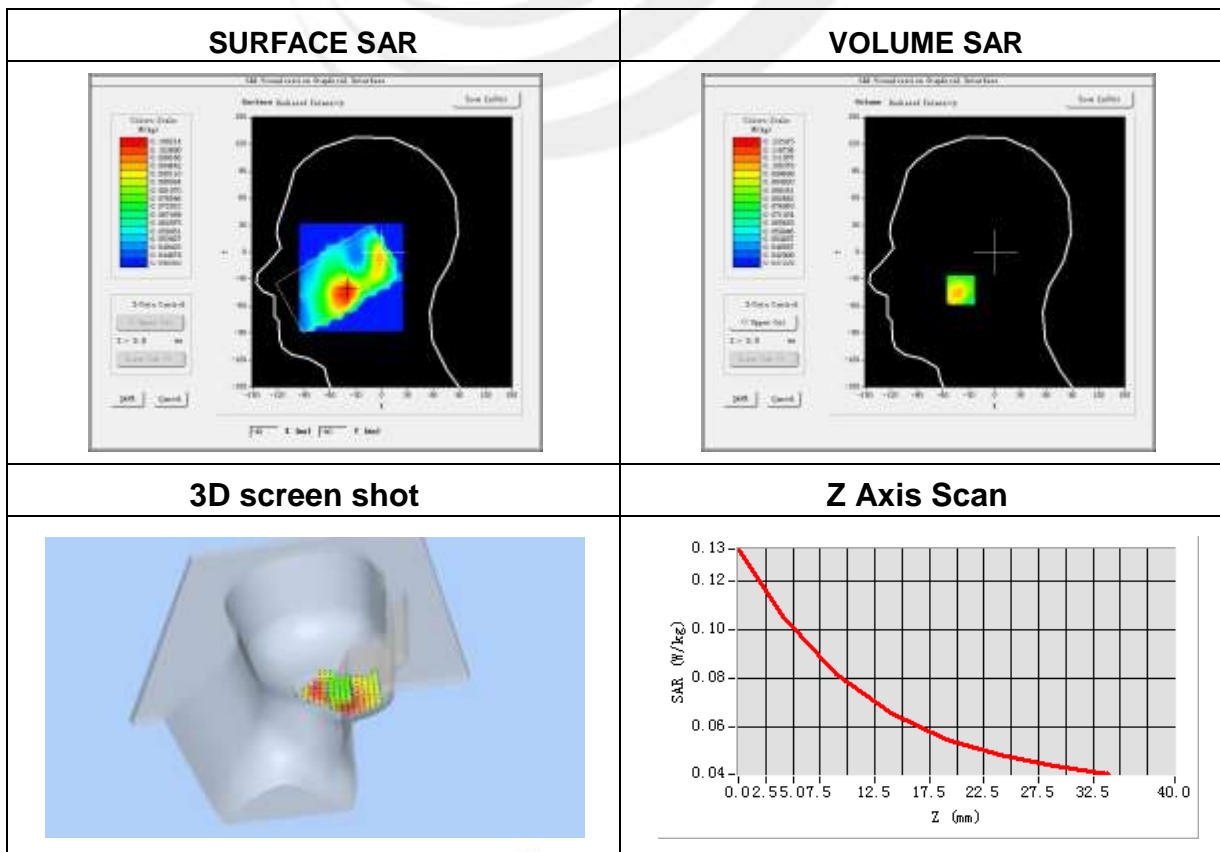
Plot 22: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-2.85

Maximum location: X=-40.00, Y=-42.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.077758
SAR 1g (W/Kg)	0.102313



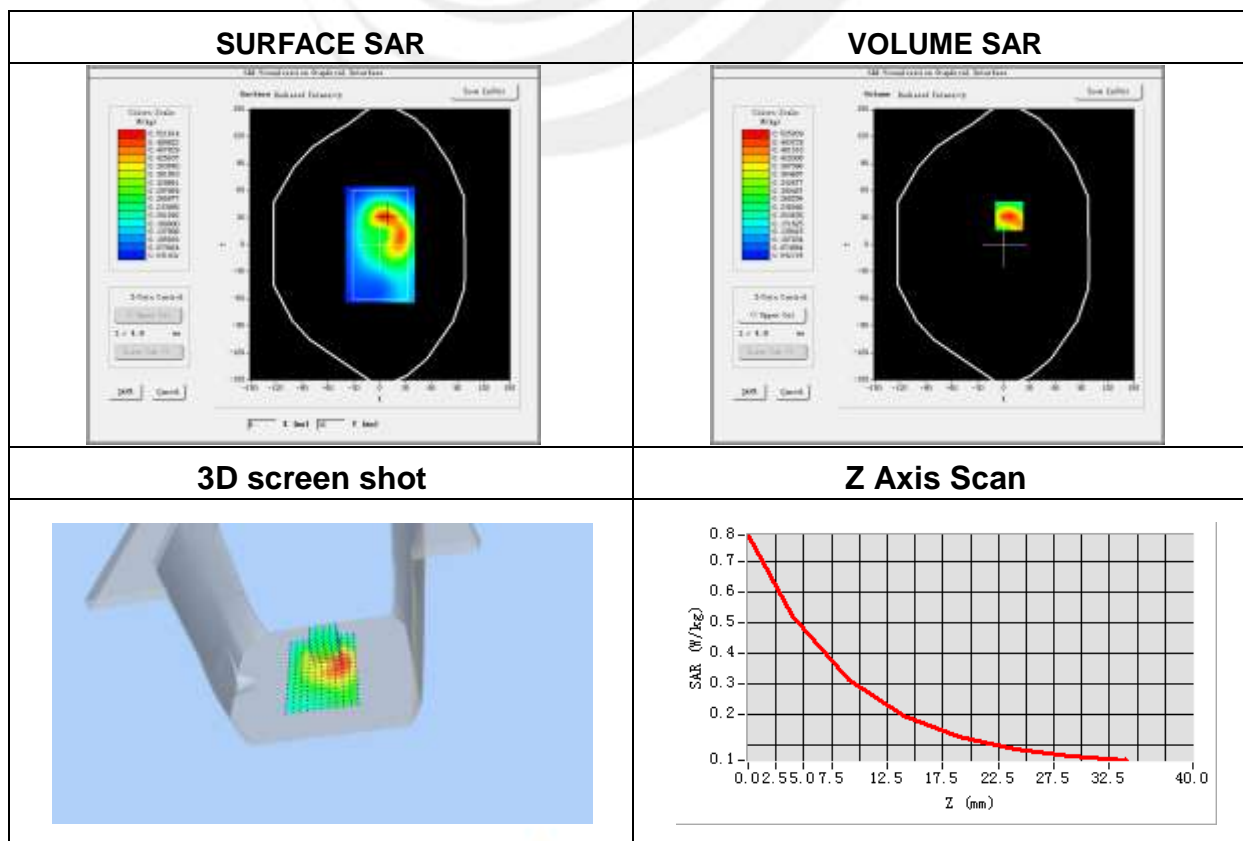
Plot 23: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-3.27

Maximum location: X=6.00, Y=32.00

SAR Peak: 0.78 W/kg

SAR 10g (W/Kg)	0.286519
SAR 1g (W/Kg)	0.503389



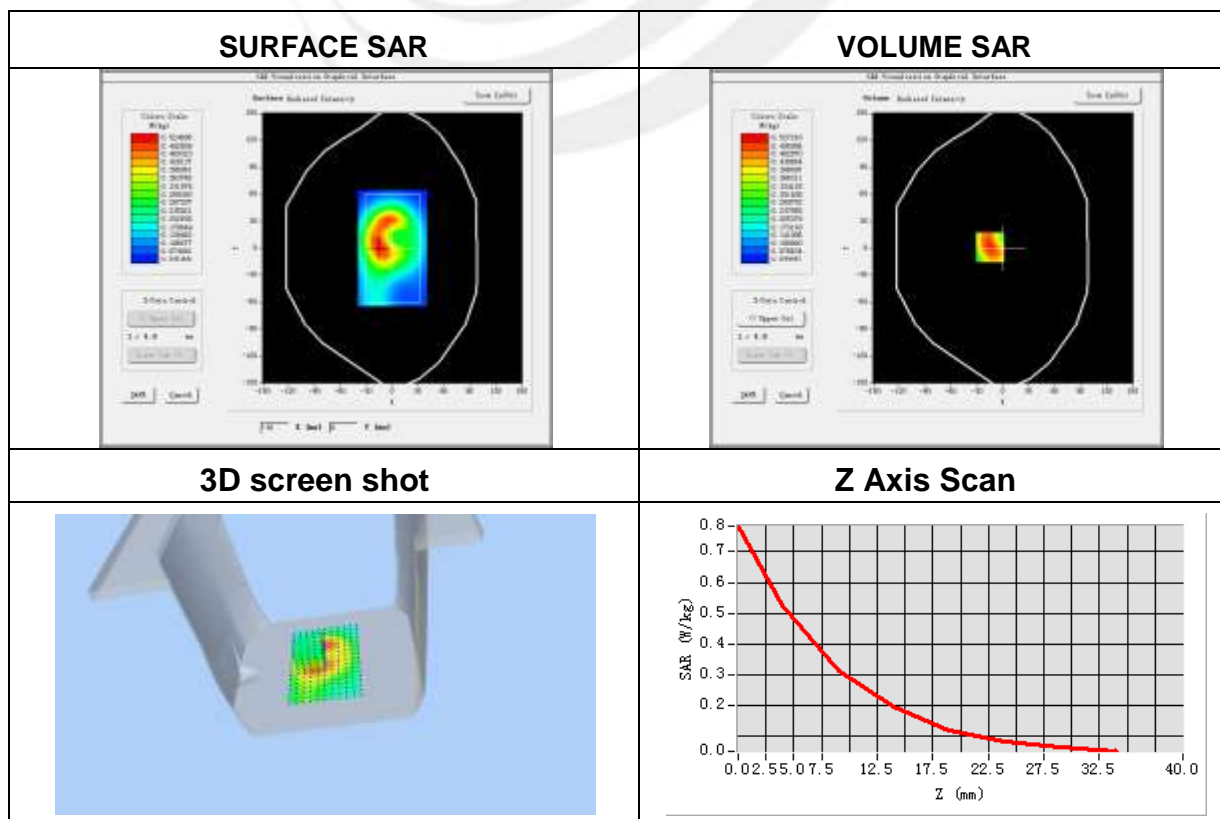
Plot 24: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-4.00

Maximum location: X=-15.00, Y=1.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.299329
SAR 1g (W/Kg)	0.508839



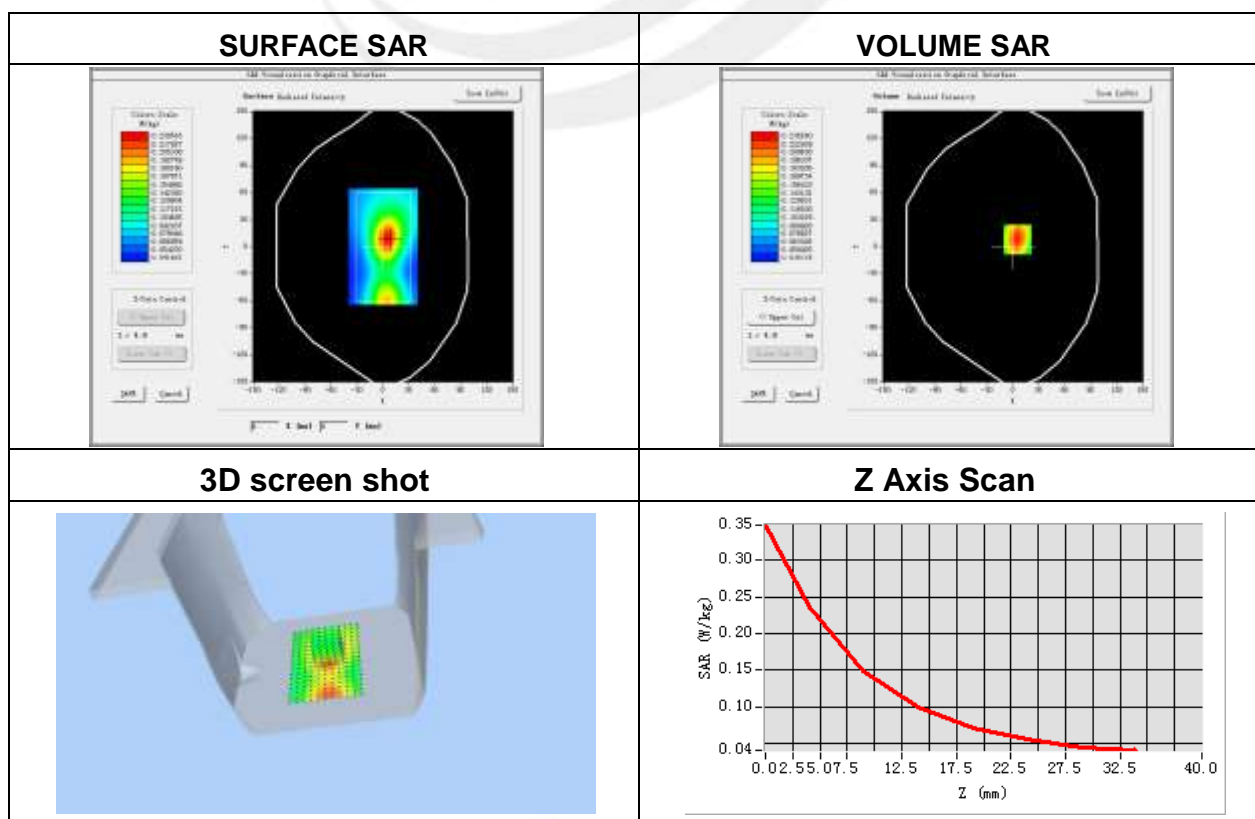
Plot 25: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.13

Maximum location: X=5.00, Y=8.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.141800
SAR 1g (W/Kg)	0.230324



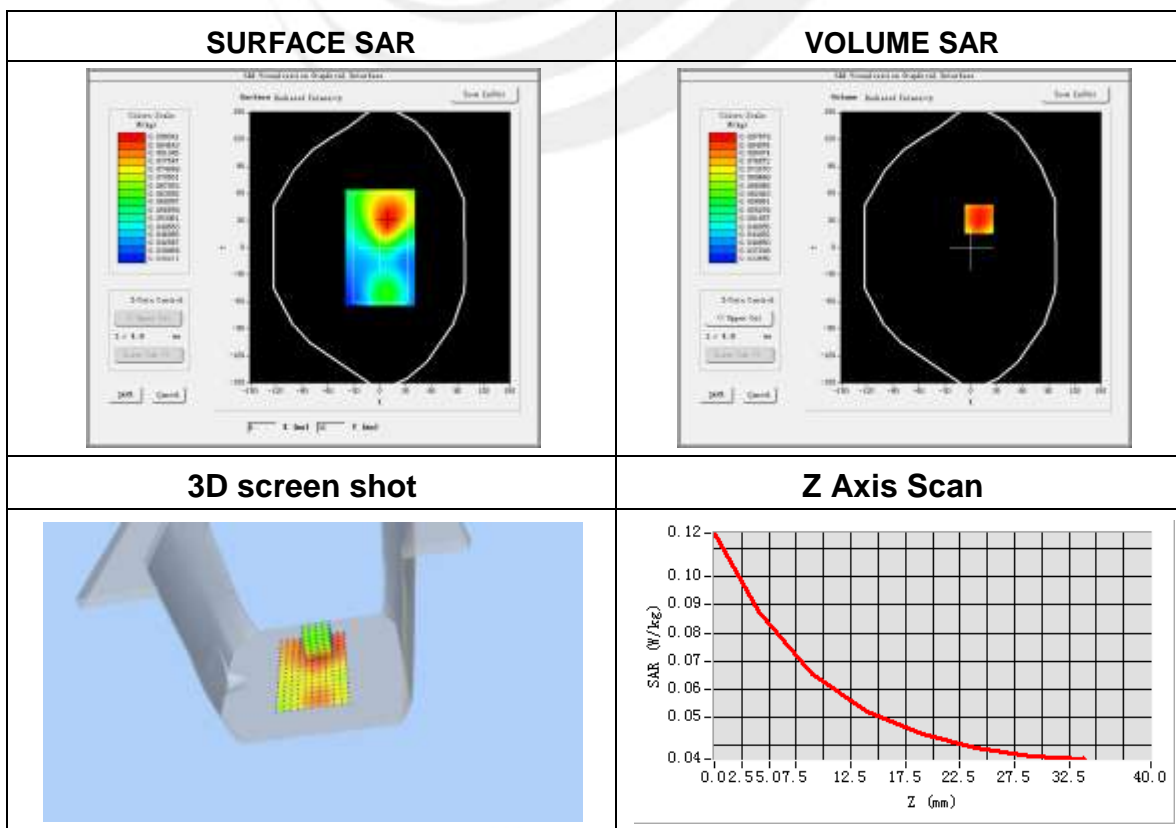
Plot 26: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	0.29

Maximum location: X=9.00, Y=32.00

SAR Peak:0.12 W/kg

SAR 10g (W/Kg)	0.065069
SAR 1g (W/Kg)	0.087143



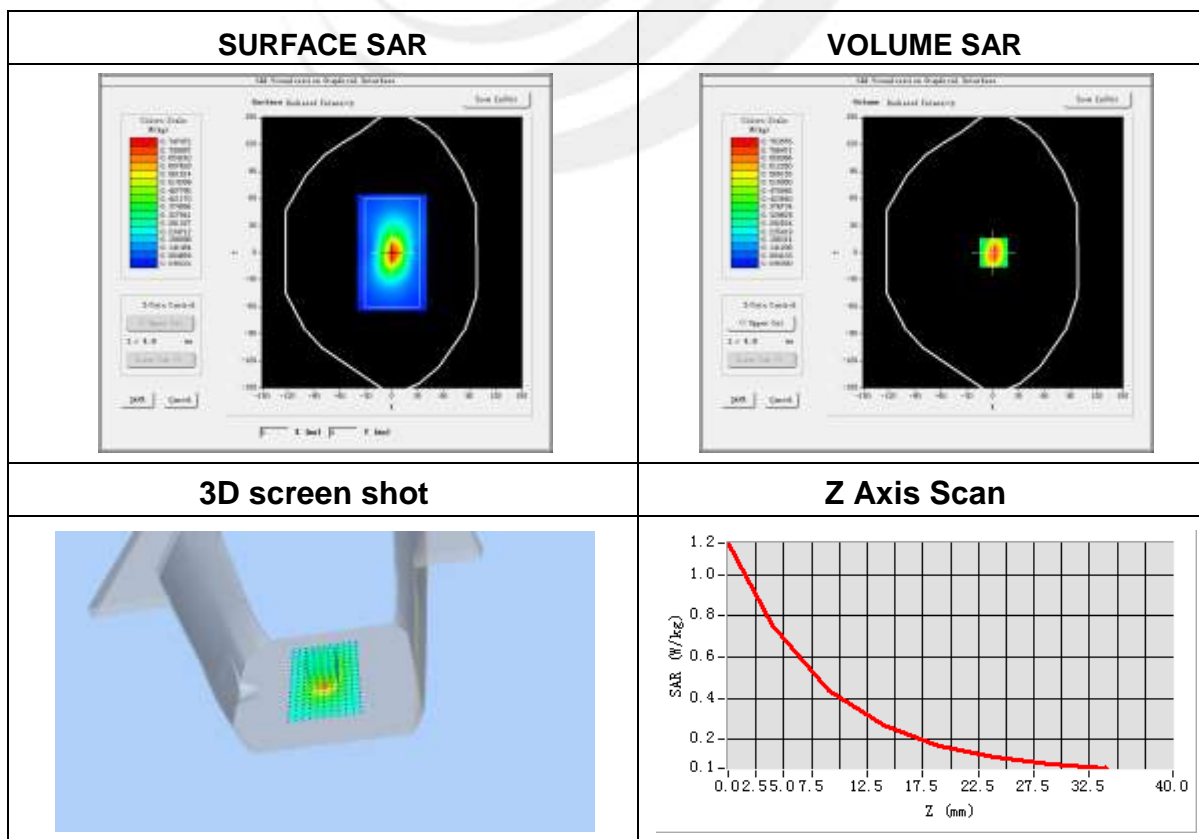
Plot 27: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.44

Maximum location: X=1.00, Y=0.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.392542
SAR 1g (W/Kg)	0.719483



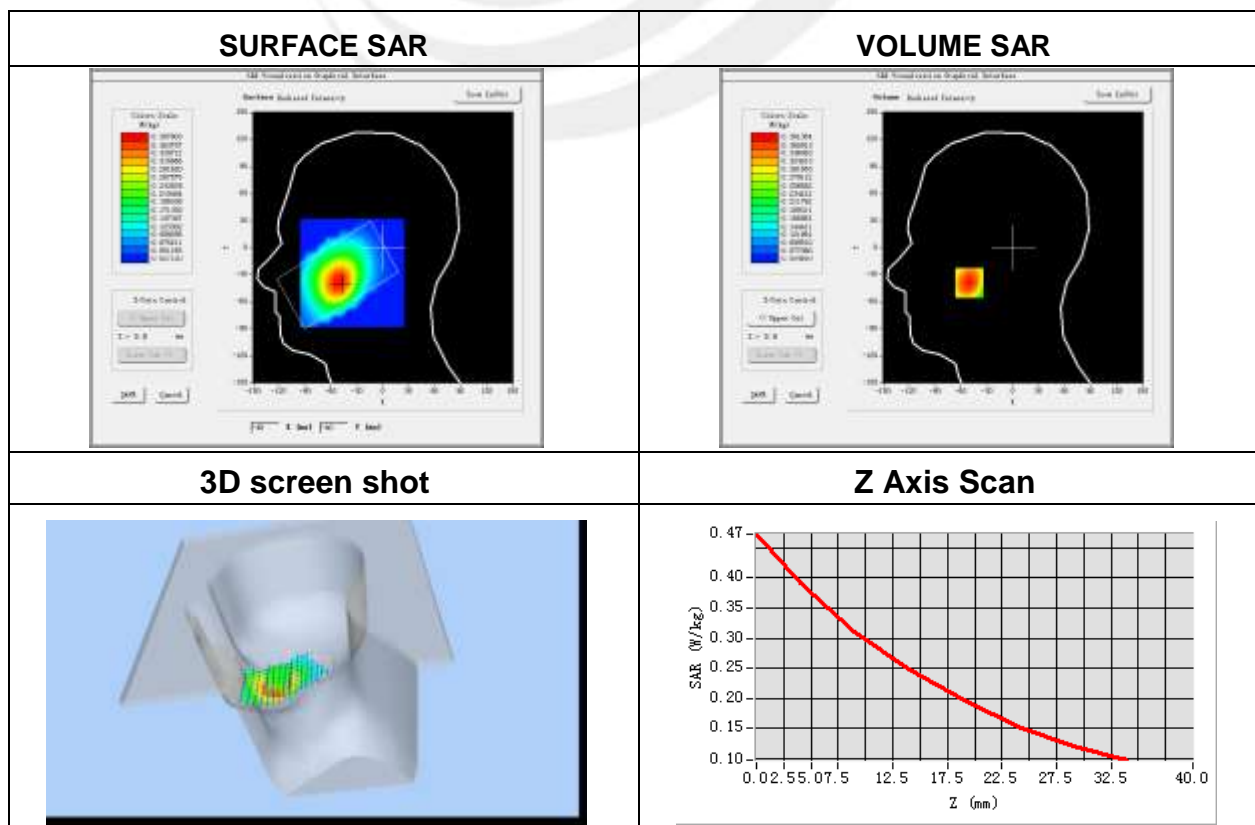
Plot 28: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	0.57

Maximum location: X=-51.00, Y=-39.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.281576
SAR 1g (W/Kg)	0.381580



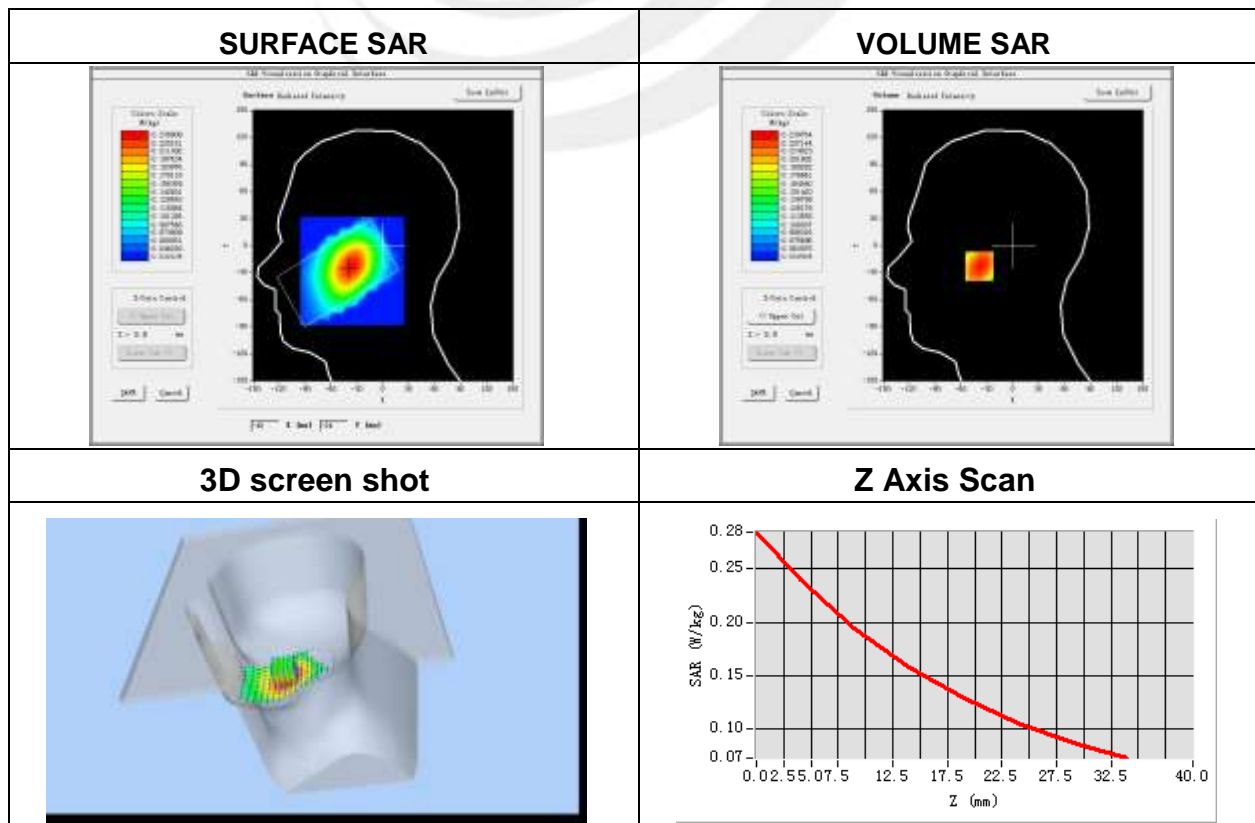
Plot 29: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.11

Maximum location: X=-38.00, Y=-23.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.178682
SAR 1g (W/Kg)	0.233888



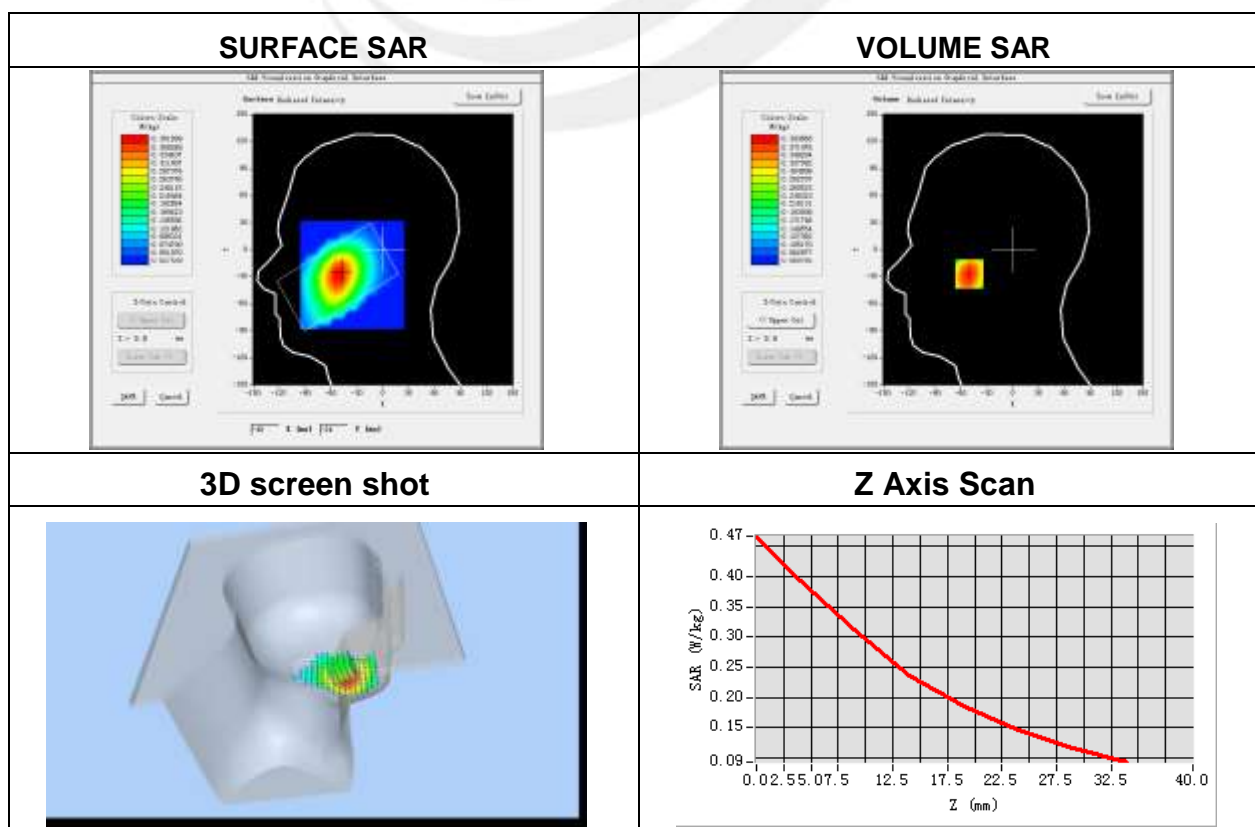
Plot 30: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.94

Maximum location: X=-51.00, Y=-27.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.276167
SAR 1g (W/Kg)	0.381867



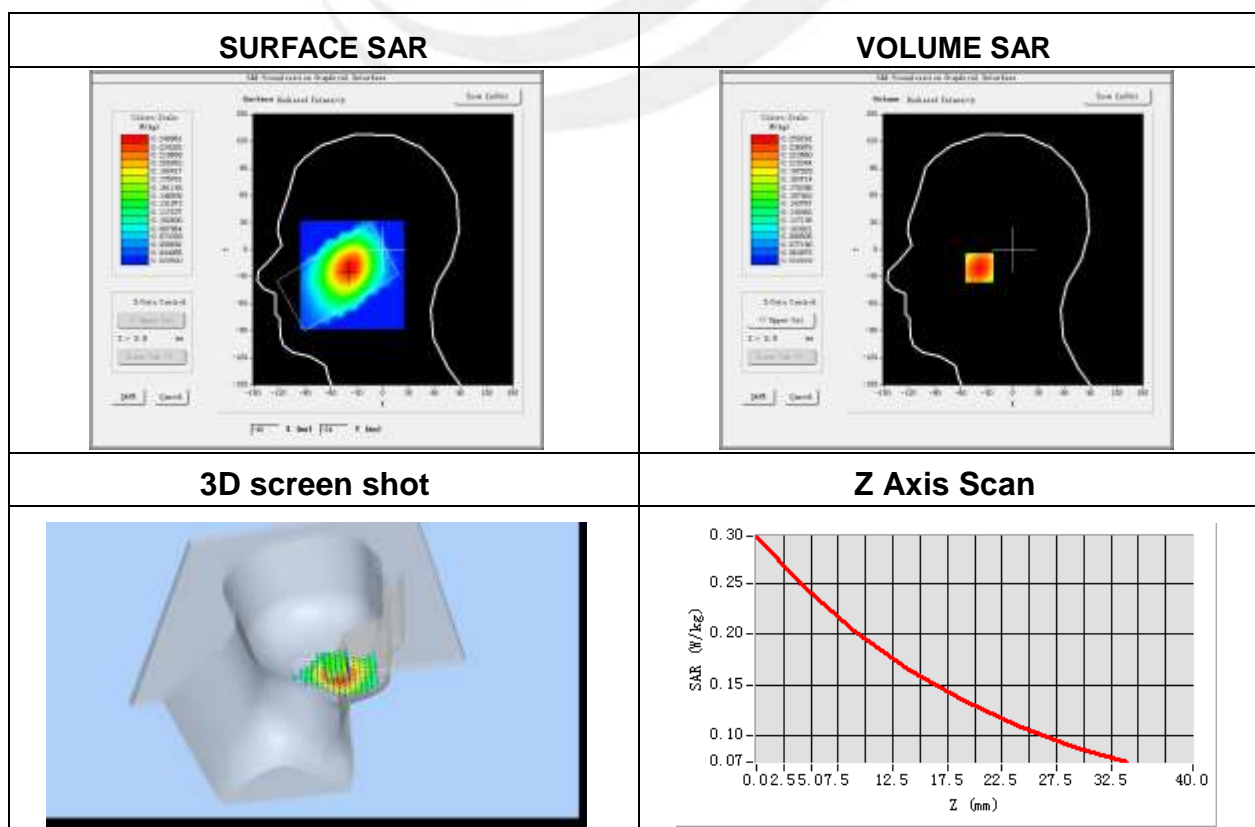
Plot 31: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.07

Maximum location: X=-39.00, Y=-20.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.185820
SAR 1g (W/Kg)	0.243845



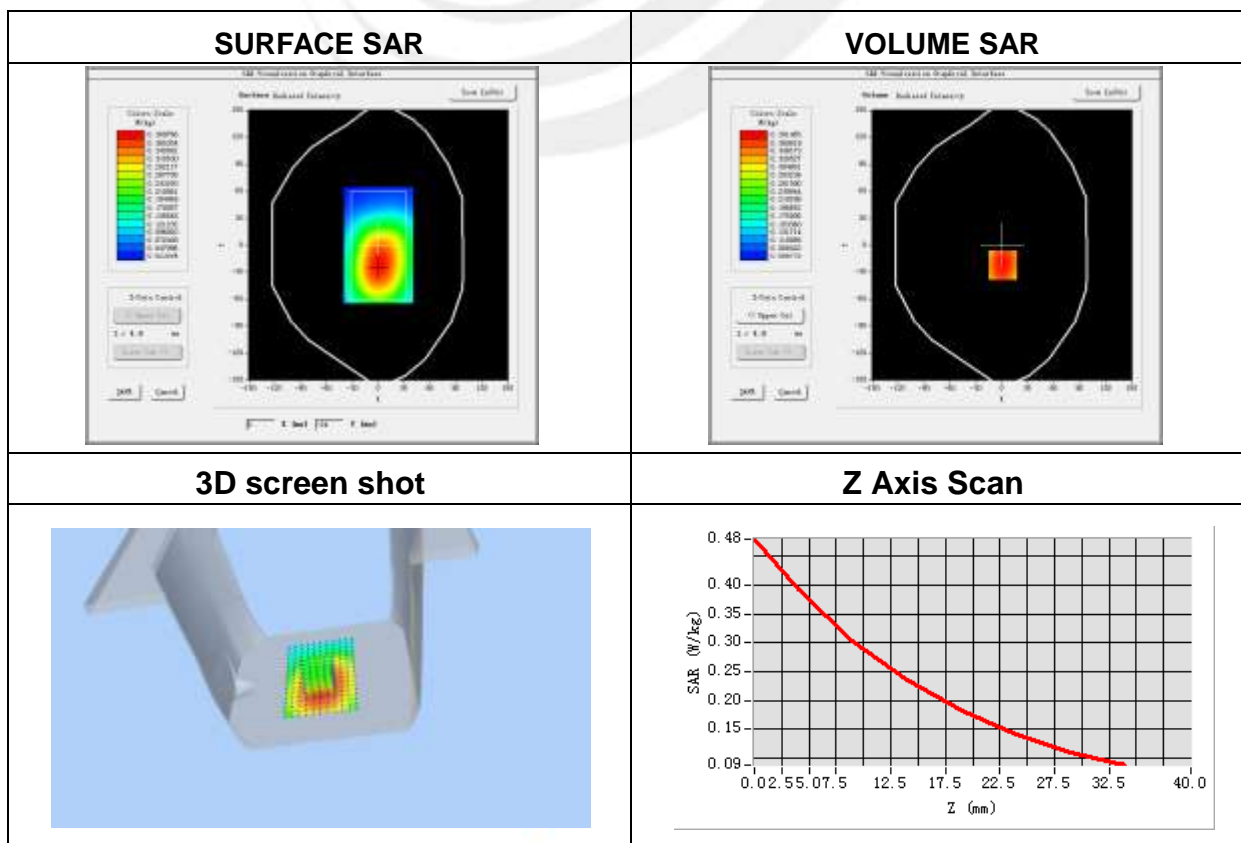
Plot 32: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	0.08

Maximum location: X=1.00, Y=-22.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.284333
SAR 1g (W/Kg)	0.381964



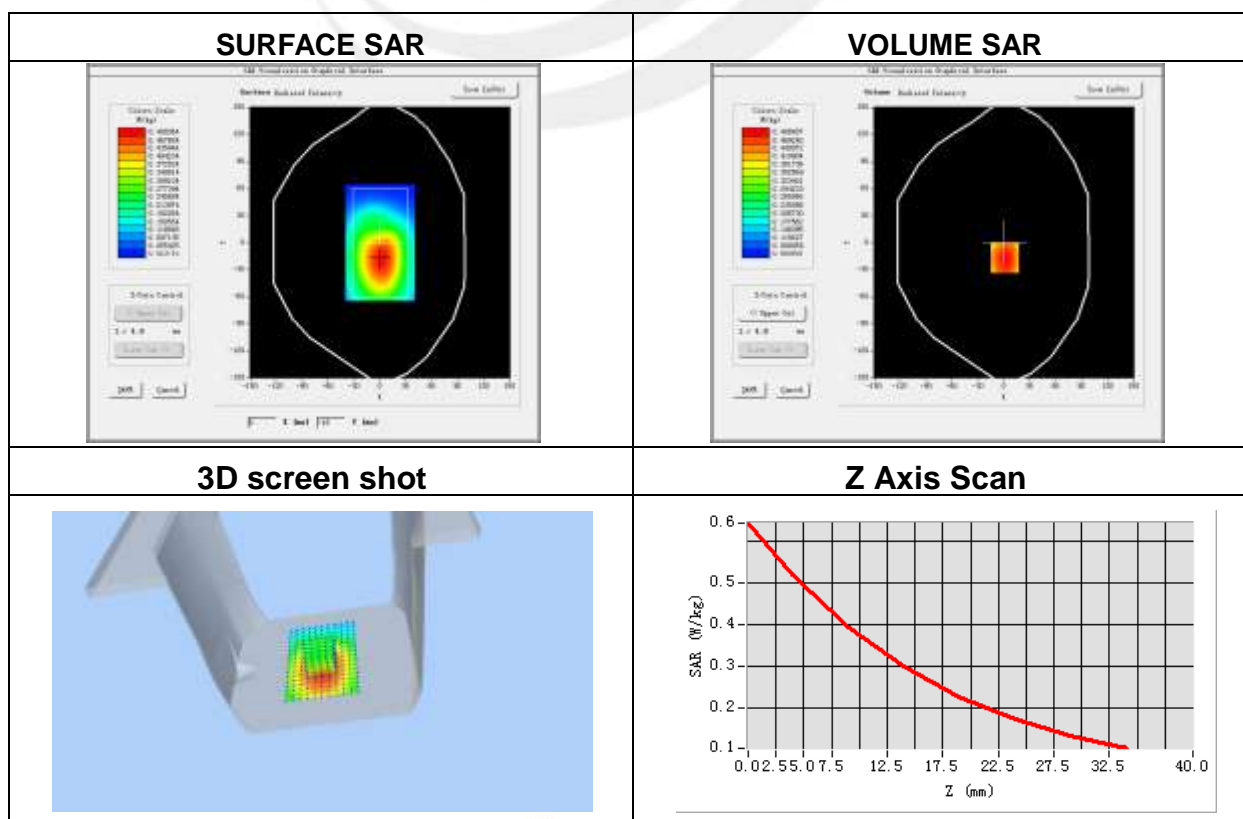
Plot 33: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.23

Maximum location: X=1.00, Y=-17.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.352616
SAR 1g (W/Kg)	0.485313



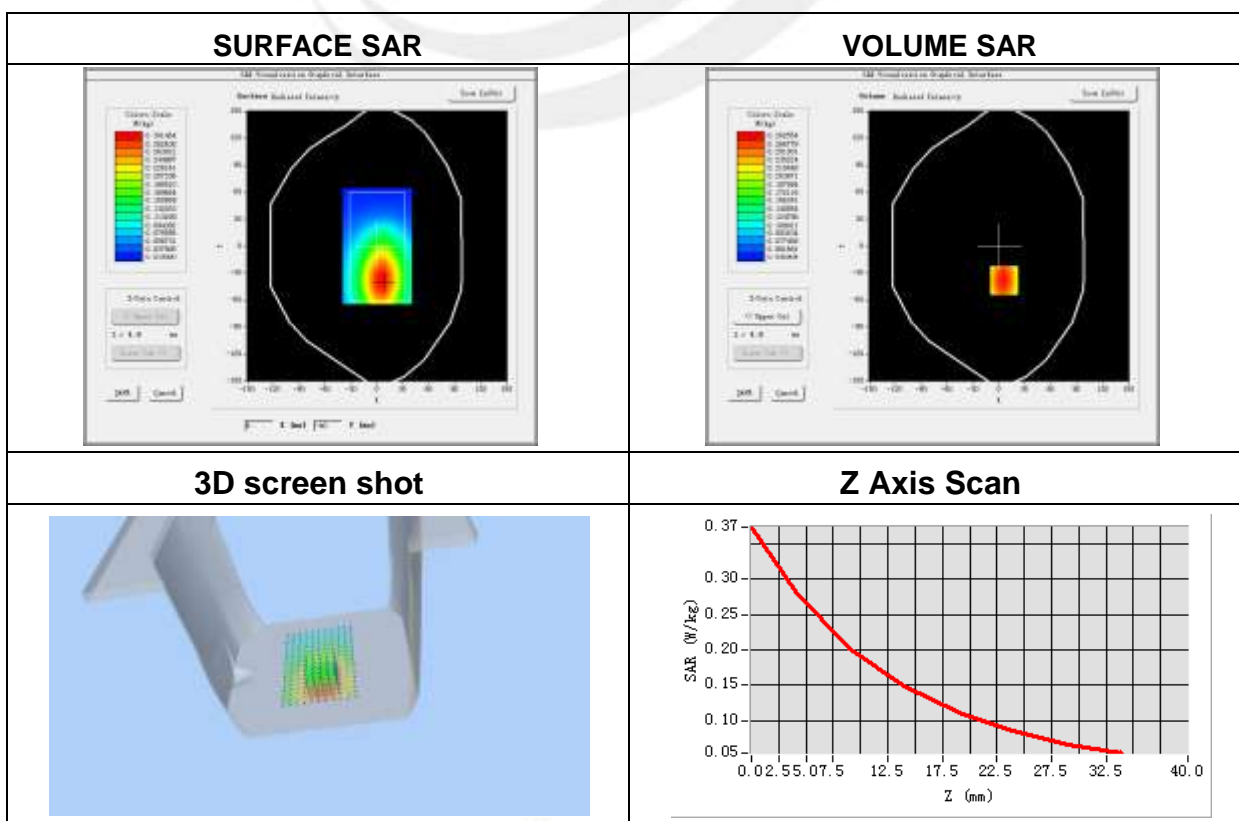
Plot 34: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-2.54

Maximum location: X=6.00, Y=-38.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.190969
SAR 1g (W/Kg)	0.275061



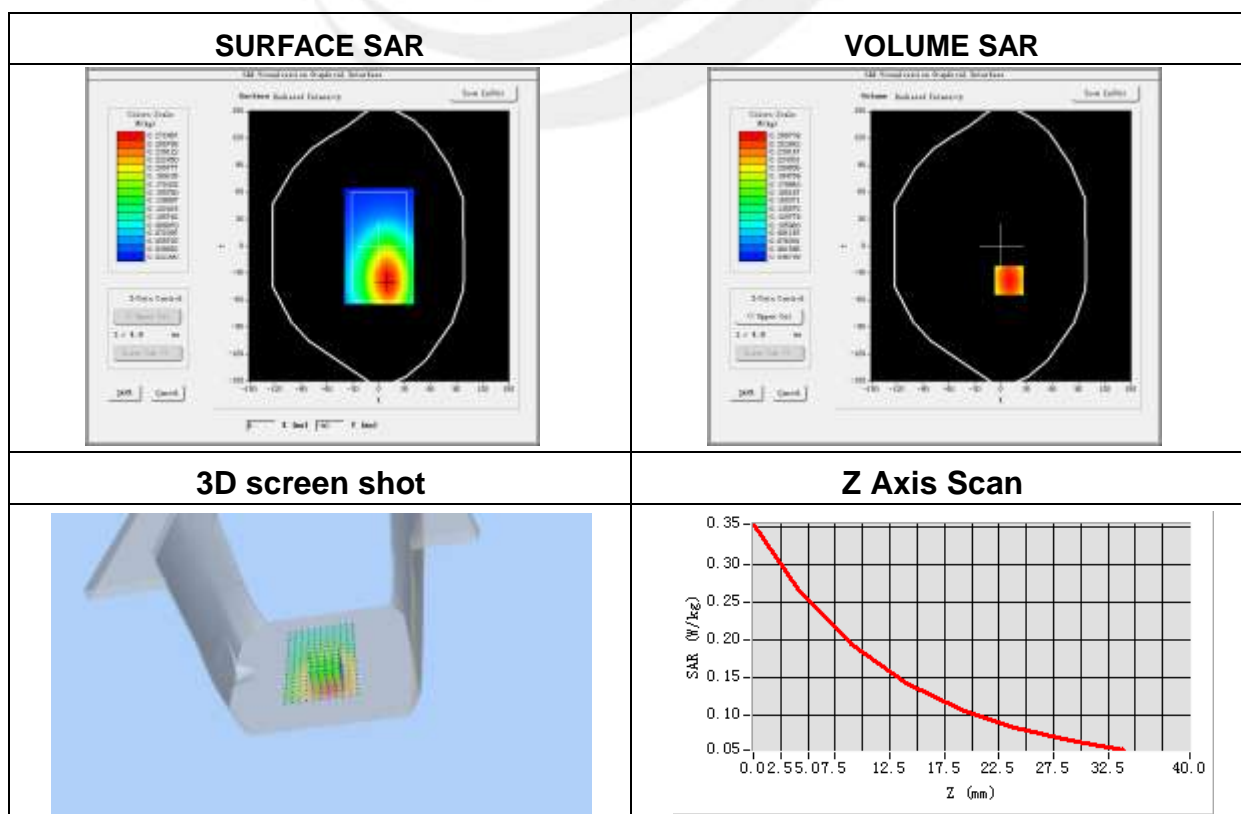
Plot 35: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	0.27

Maximum location: X=9.00, Y=-38.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.184519
SAR 1g (W/Kg)	0.261843



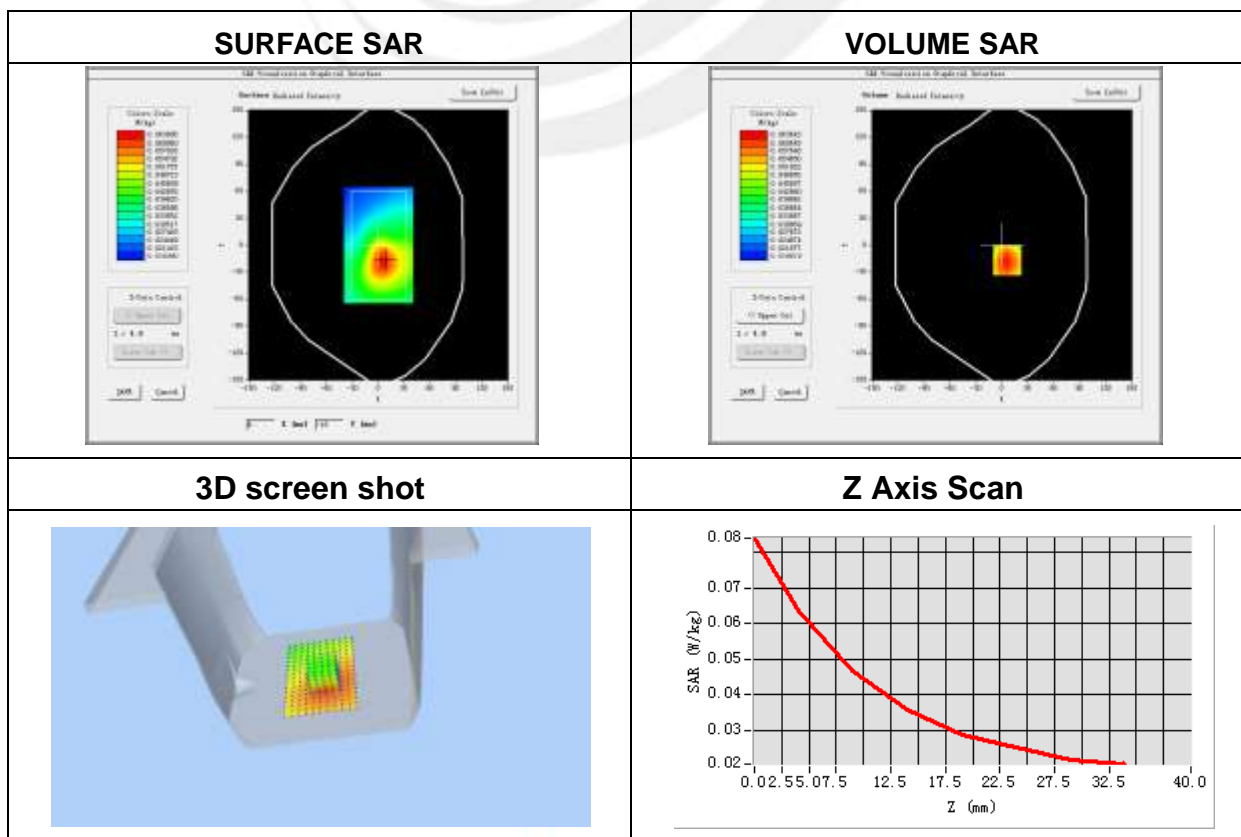
Plot 36: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-3.14

Maximum location: X=6.00, Y=-17.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.045522
SAR 1g (W/Kg)	0.062497

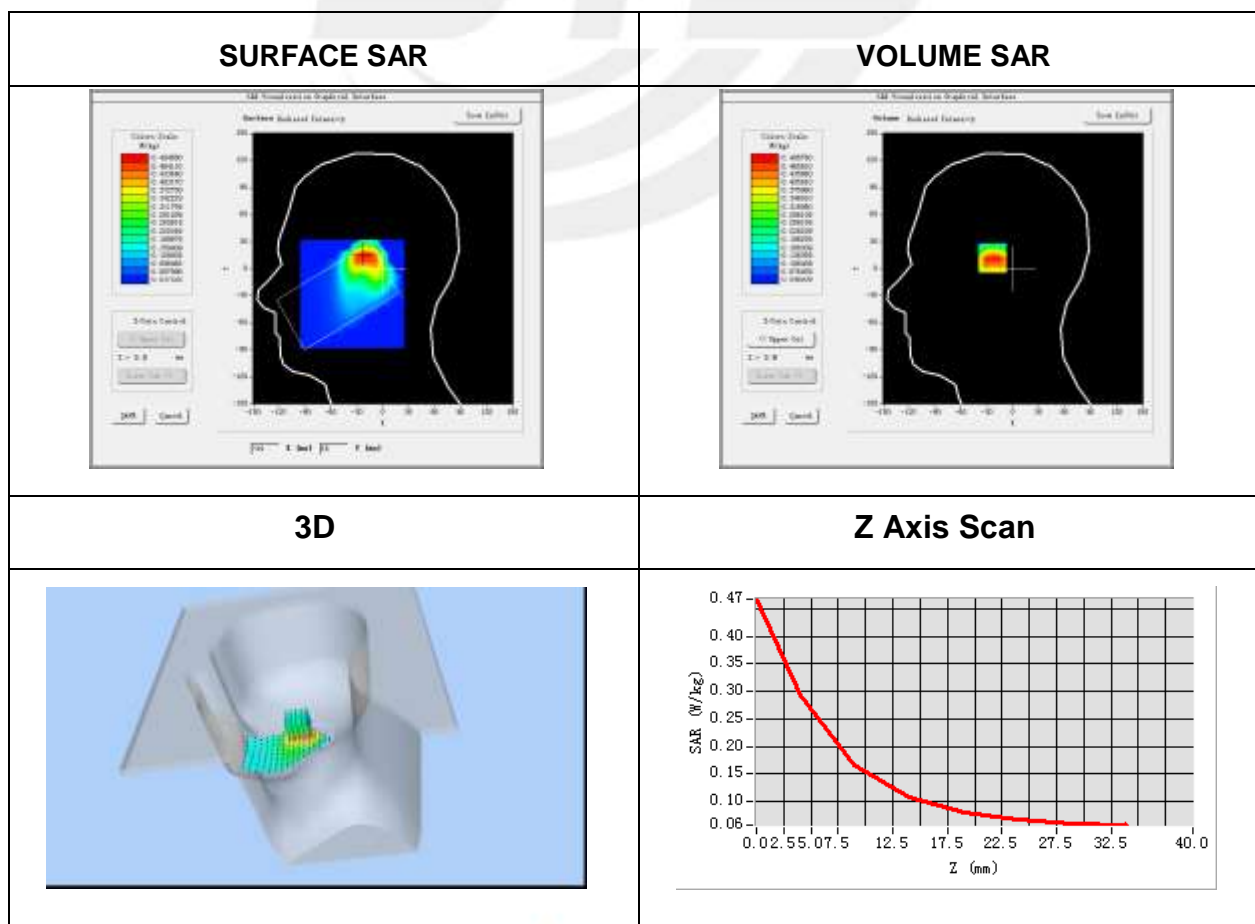


Plot 37: DUT:smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	0.38

Maximum location: X=-23.00, Y=15.00
SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.166512
SAR 1g (W/Kg)	0.281895

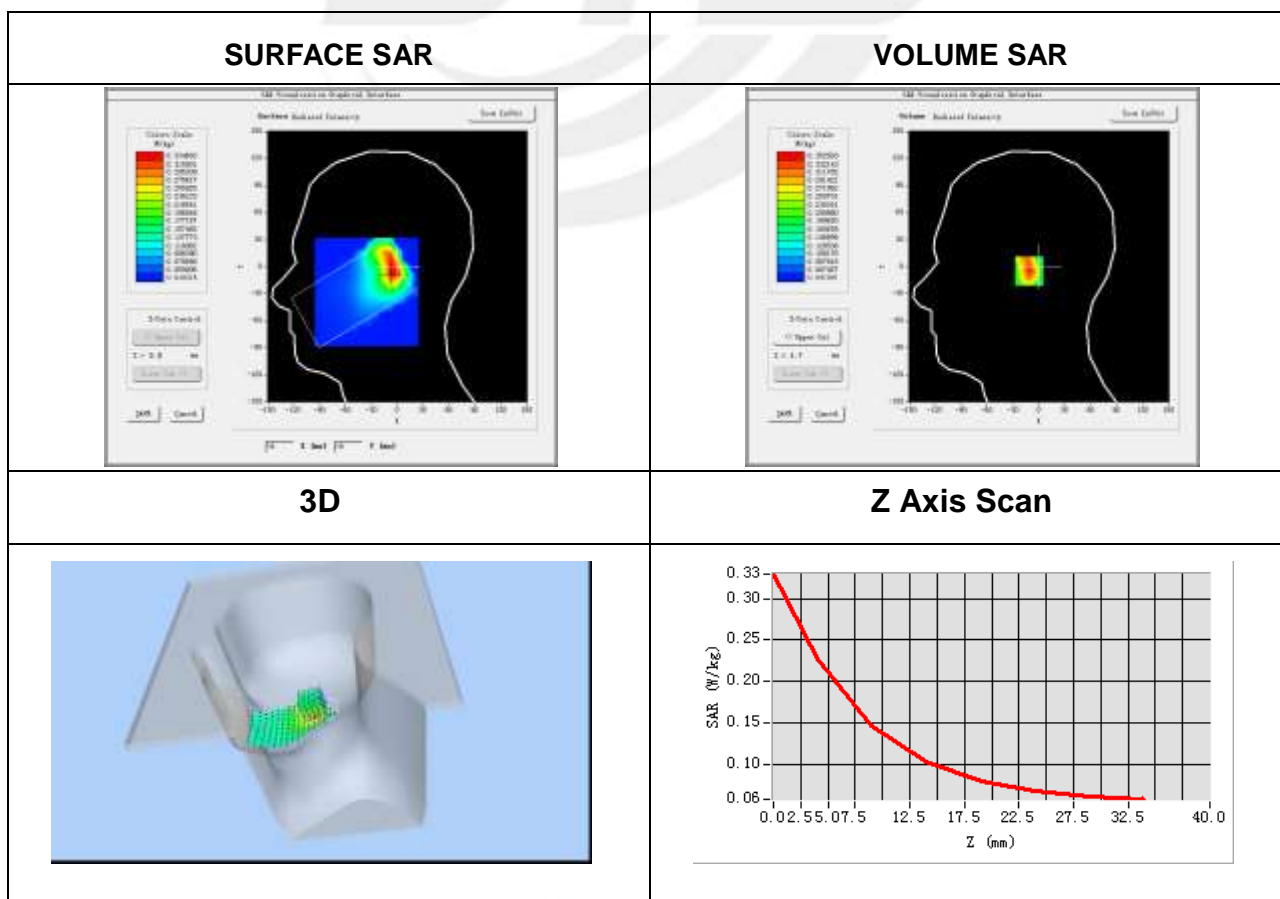


Plot 38: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.25

Maximum location: X=-5.00, Y=-5.00
SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.137929
SAR 1g (W/Kg)	0.216247

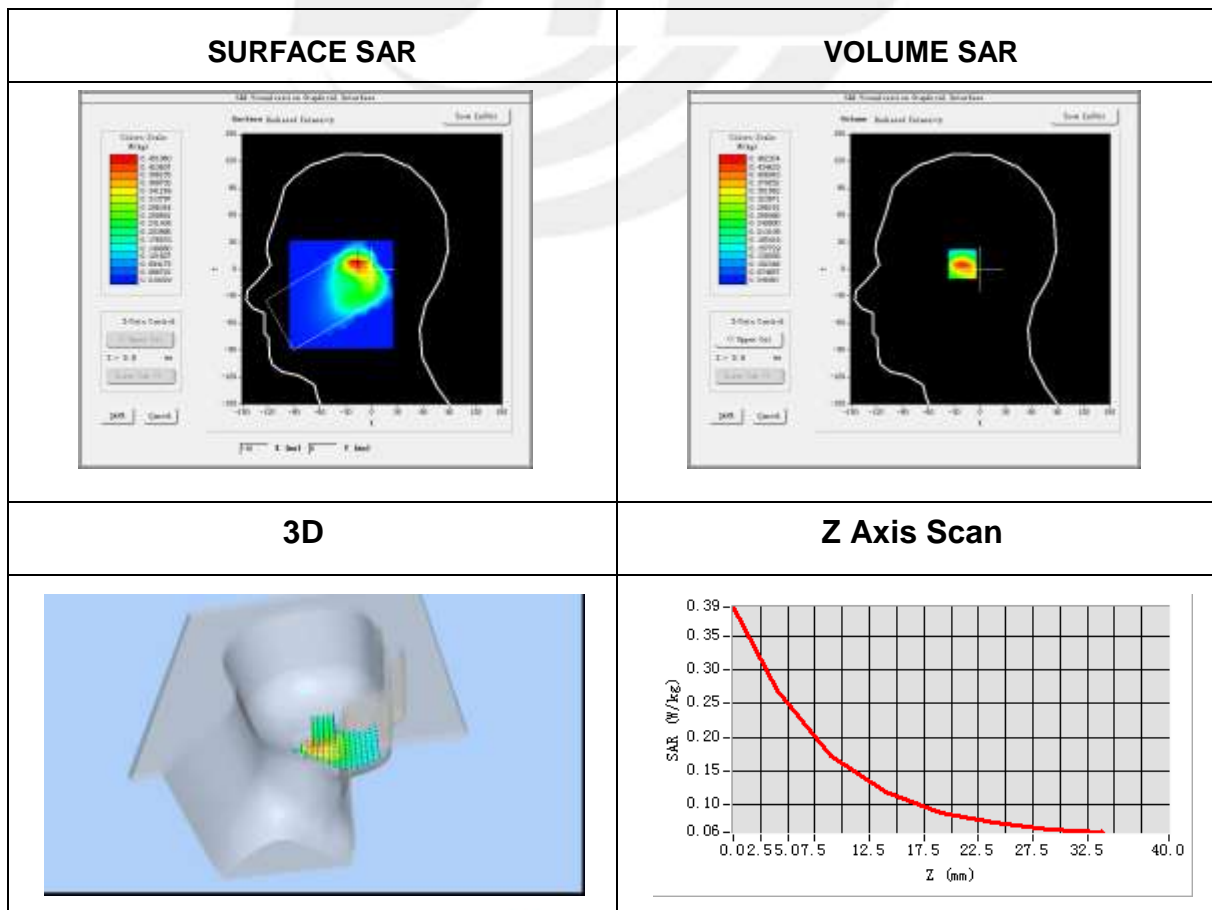


Plot 39: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	0.30

Maximum location: X=-13.00, Y=7.00
SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.155210
SAR 1g (W/Kg)	0.255500

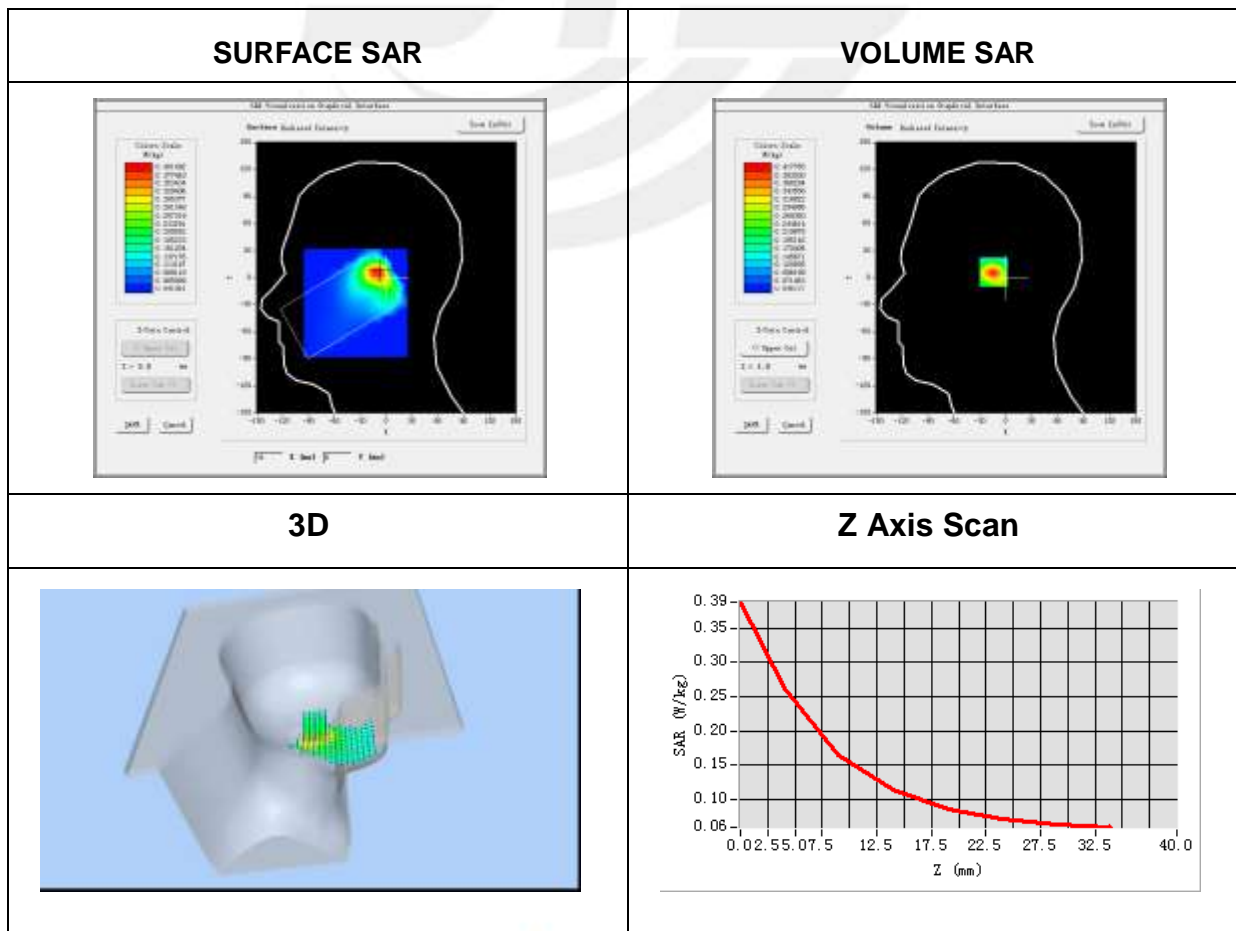


Plot 40: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.16

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

SAR 10g (W/Kg)	0.150265
SAR 1g (W/Kg)	0.247642

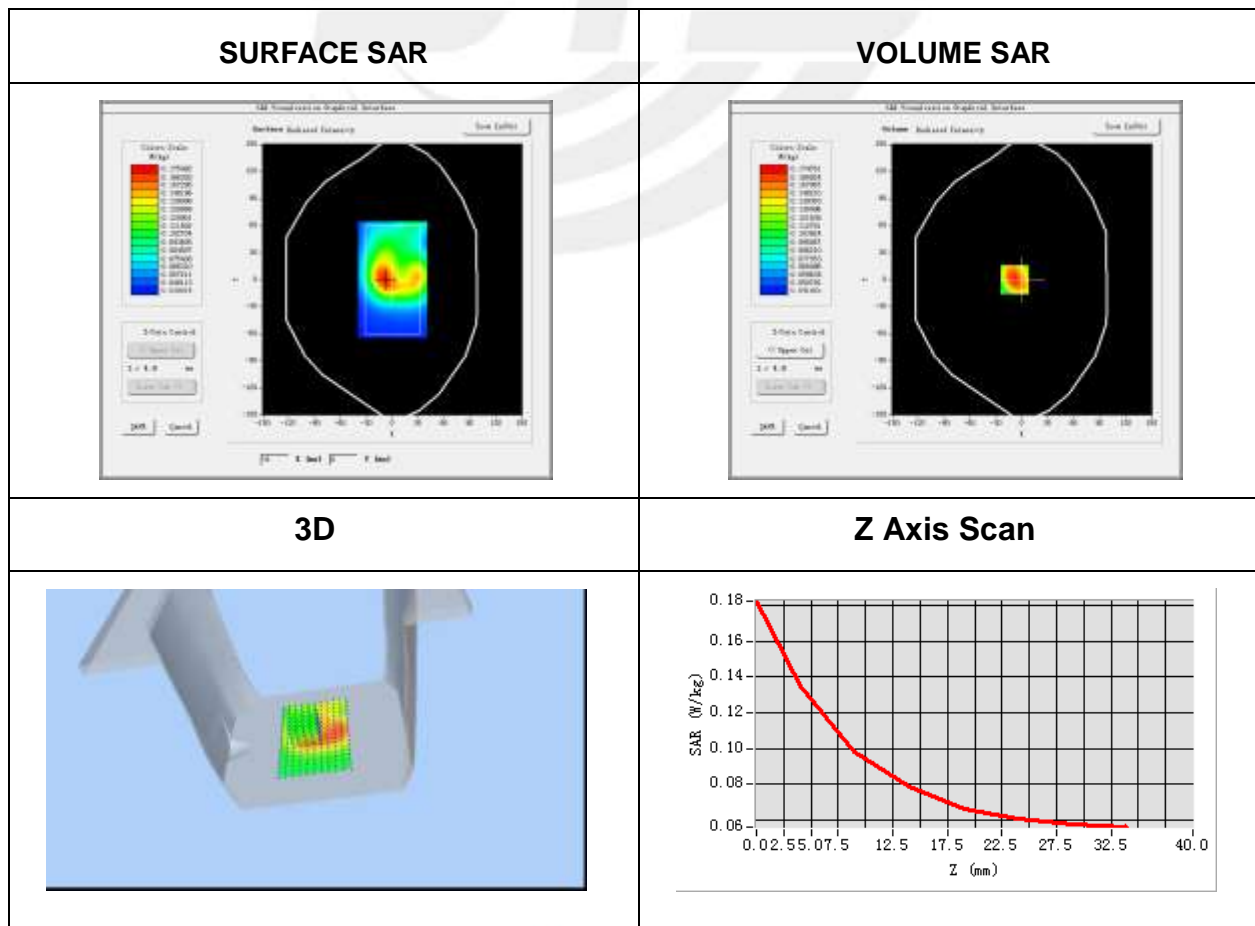


Plot 41: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	0.16

Maximum location: X=-9.00, Y=-2.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.096219
SAR 1g (W/Kg)	0.133200

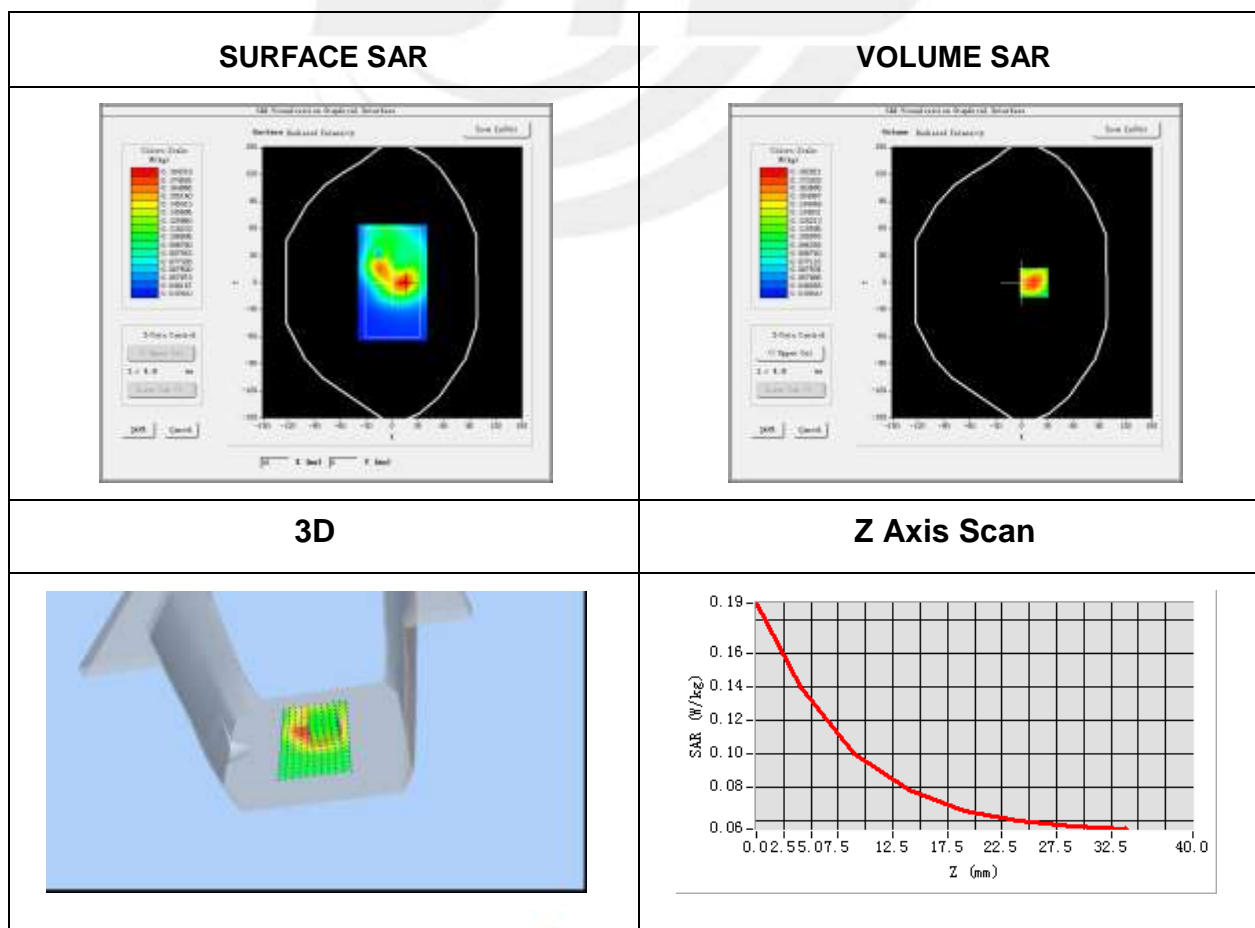


Plot 42: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.35

Maximum location: X=10.00, Y=-6.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.095756
SAR 1g (W/Kg)	0.135304

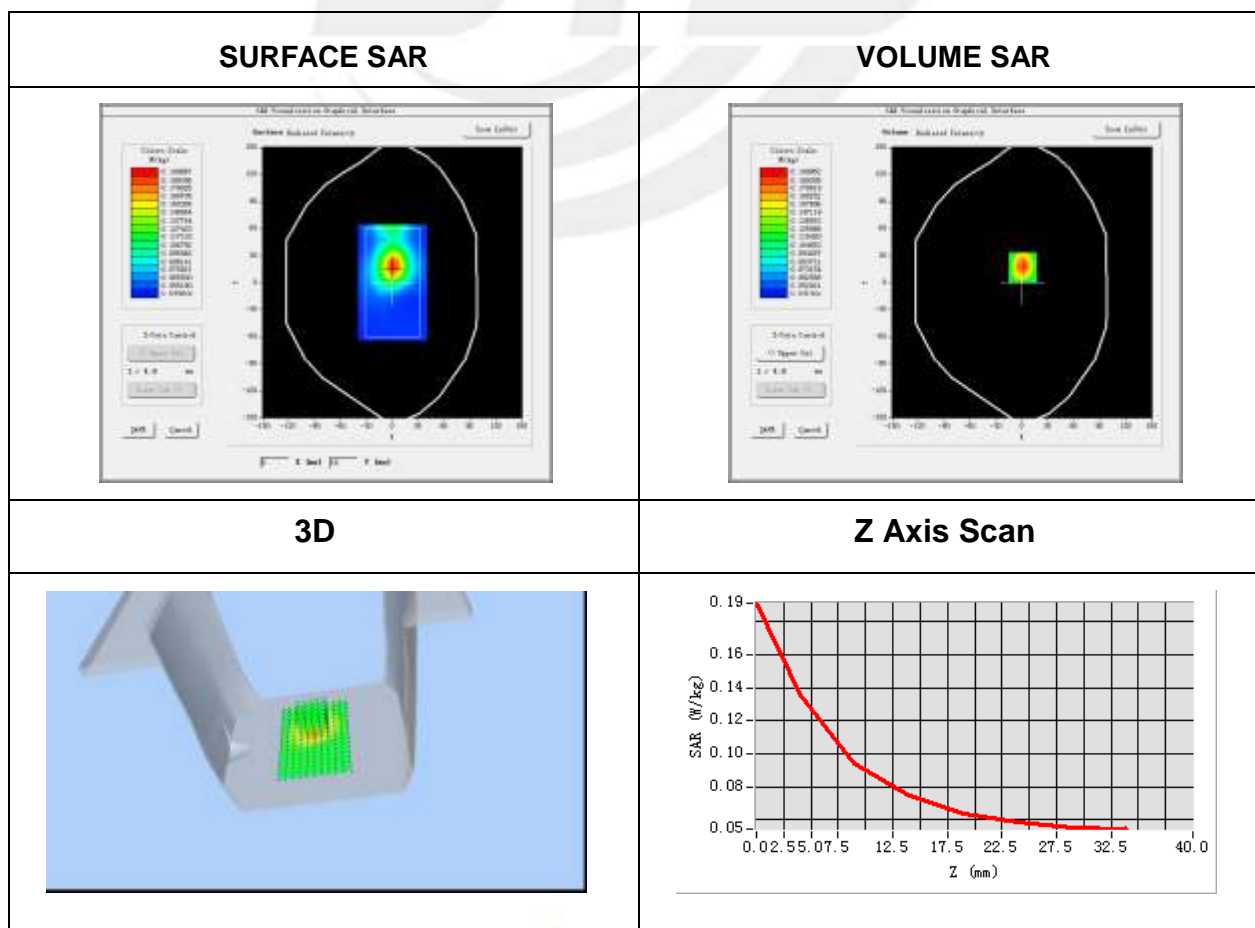


Plot 43: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.04

Maximum location: X=2.00, Y=-8.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.092828
SAR 1g (W/Kg)	0.131786

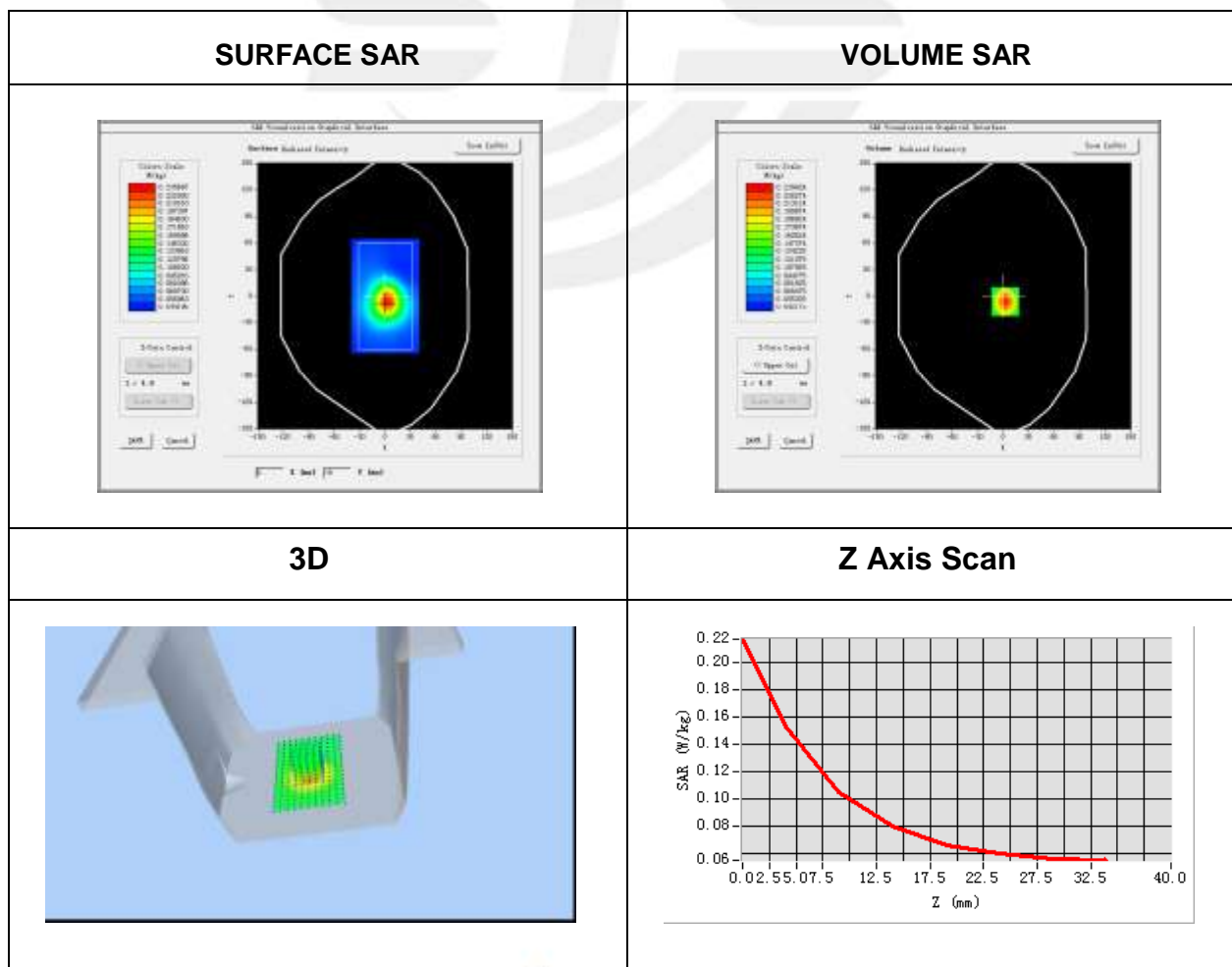


Plot 44: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Low
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2412
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-2.07

Maximum location: X=5.00, Y=0.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.101760
SAR 1g (W/Kg)	0.148500



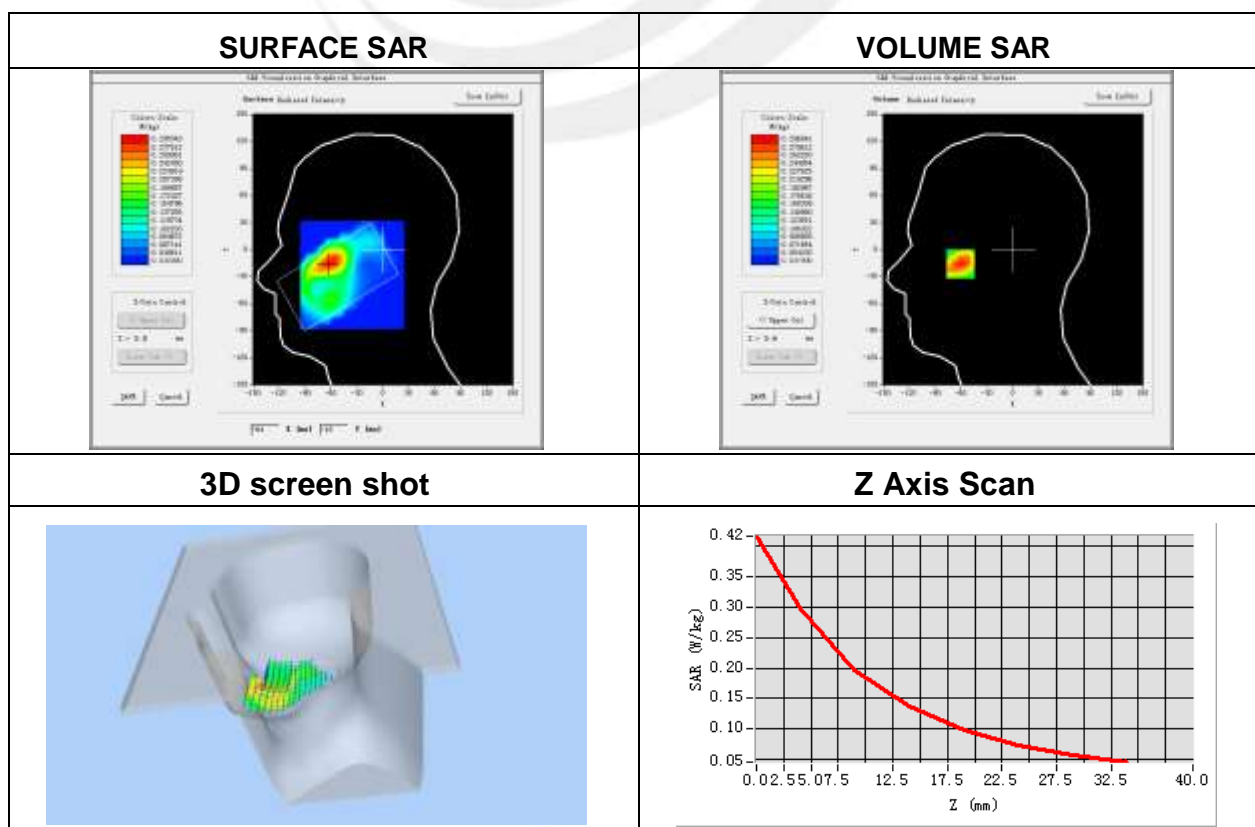
Plot 45: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 50)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	1.51

Maximum location: X=-61.00, Y=-14.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.175444
SAR 1g (W/Kg)	0.283161



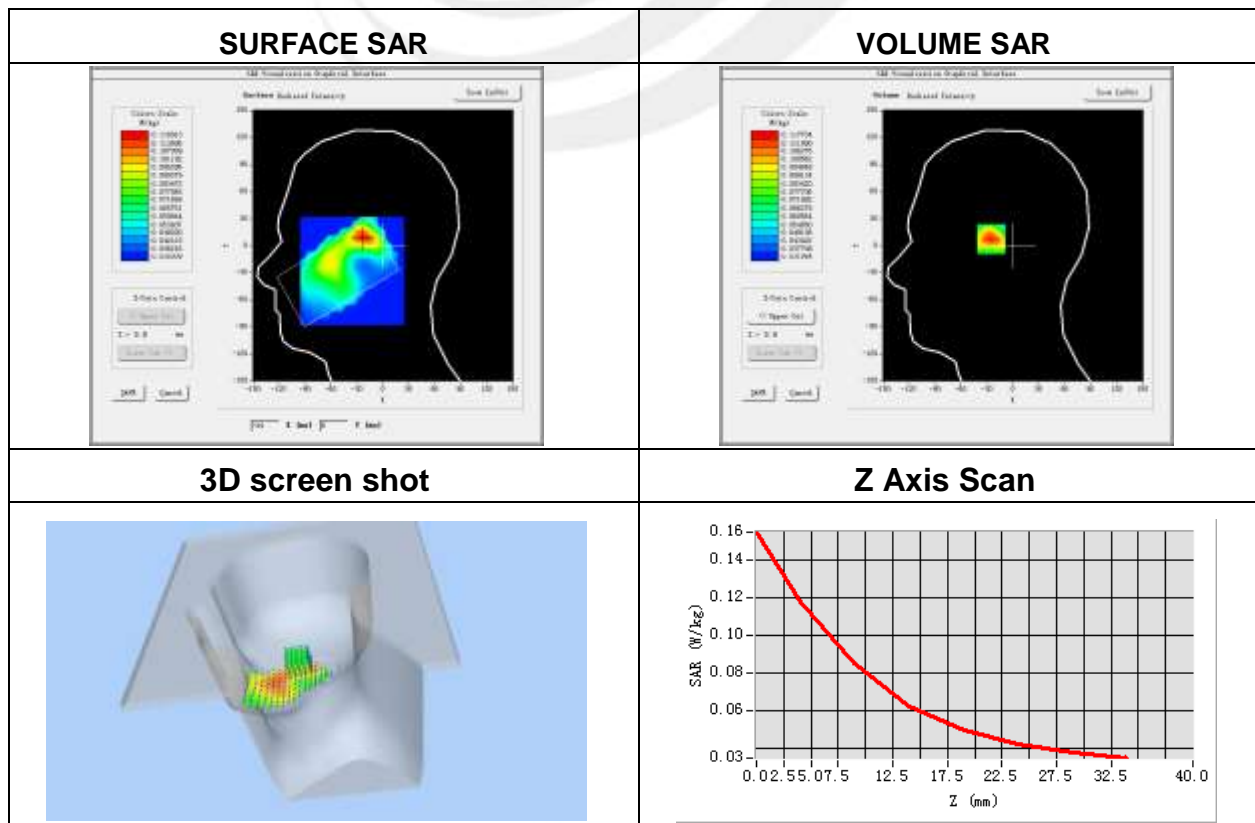
Plot 46: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-2.48

Maximum location: X=-23.00, Y=9.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.076455
SAR 1g (W/Kg)	0.111946



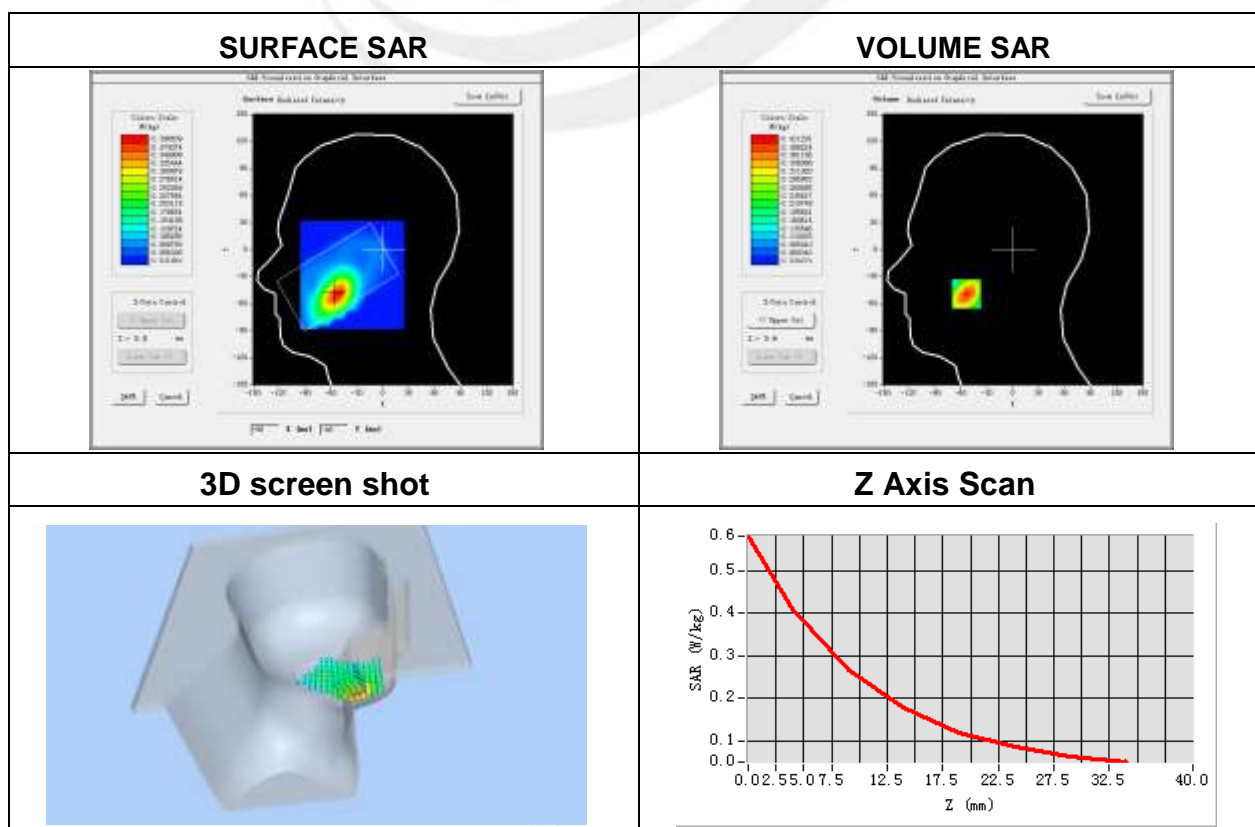
Plot 47: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	0.75

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

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.231075
SAR 1g (W/Kg)	0.389768



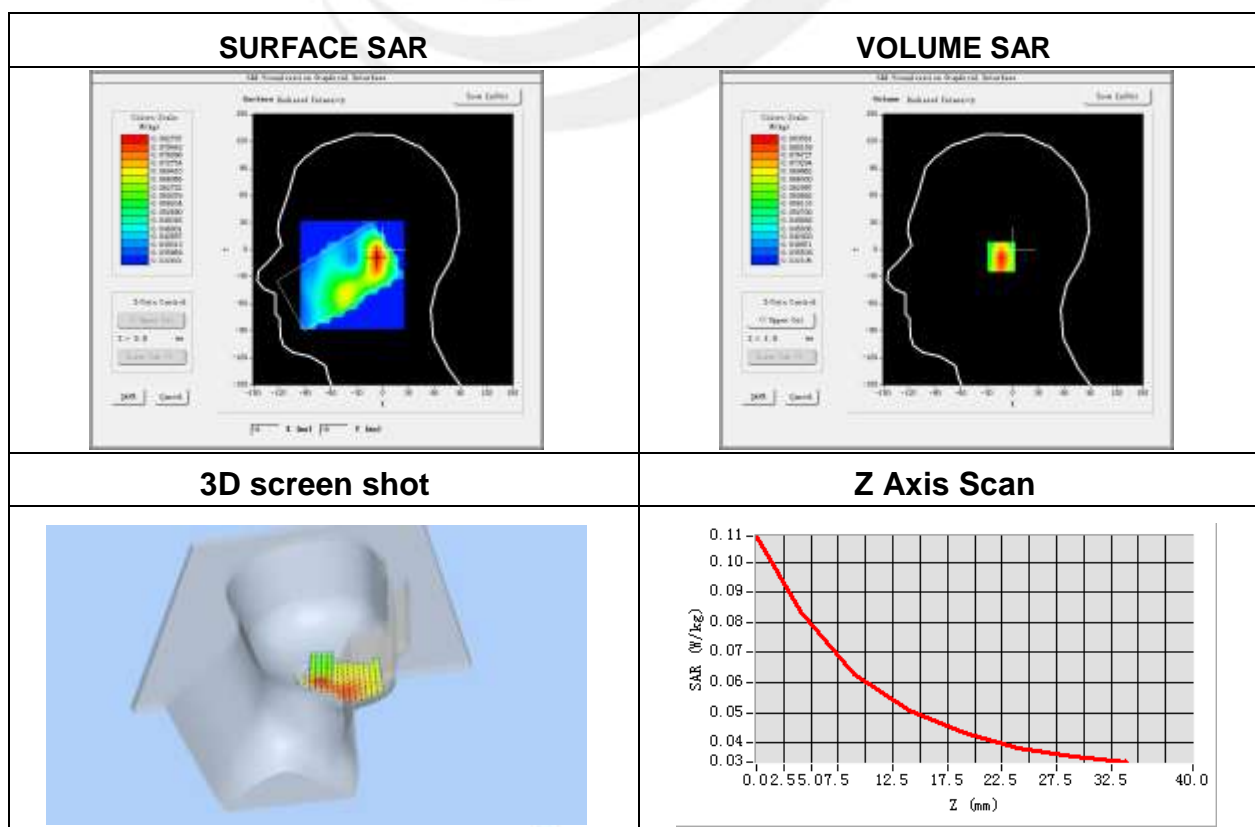
Plot 48: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	0.63

Maximum location: X=-7.00, Y=-8.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.059131
SAR 1g (W/Kg)	0.080520



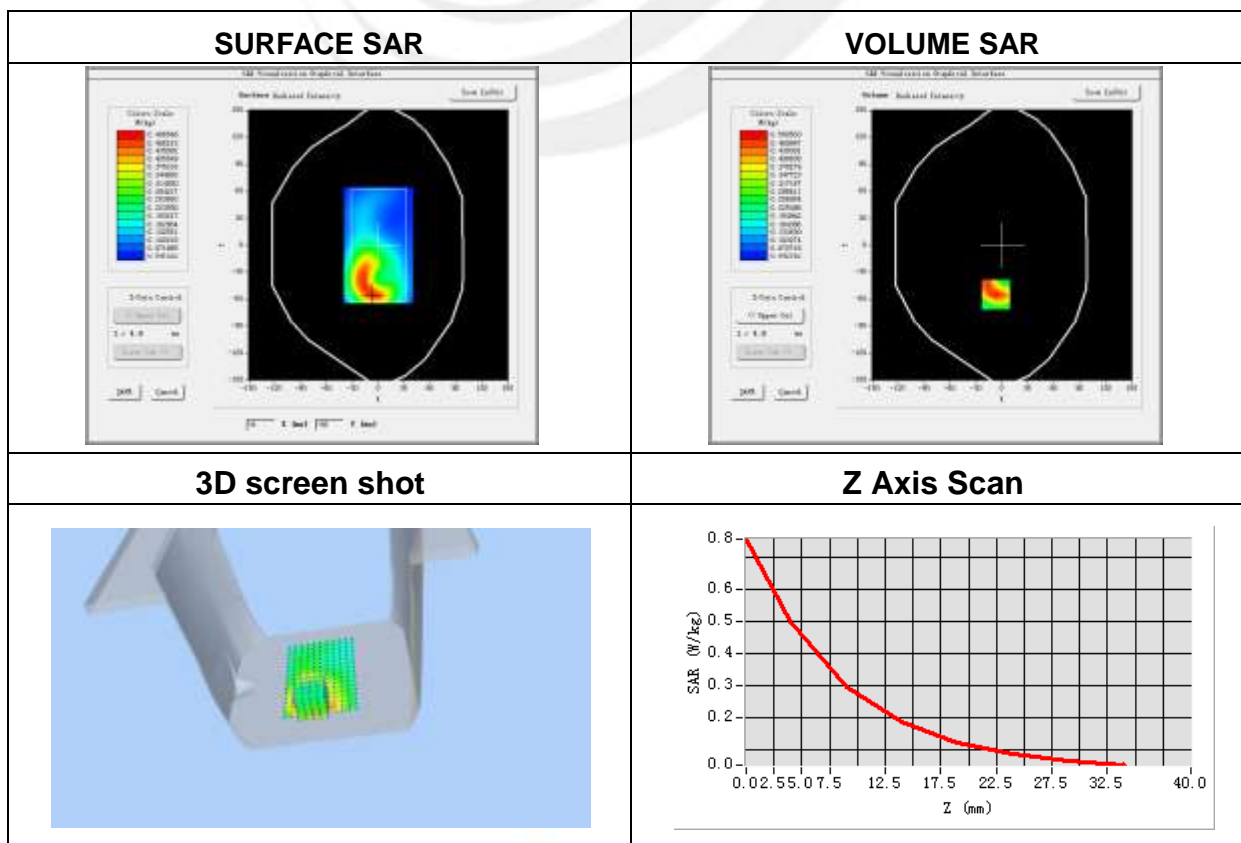
Plot 49: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 50)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.11

Maximum location: X=-7.00, Y=-55.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.272744
SAR 1g (W/Kg)	0.473013



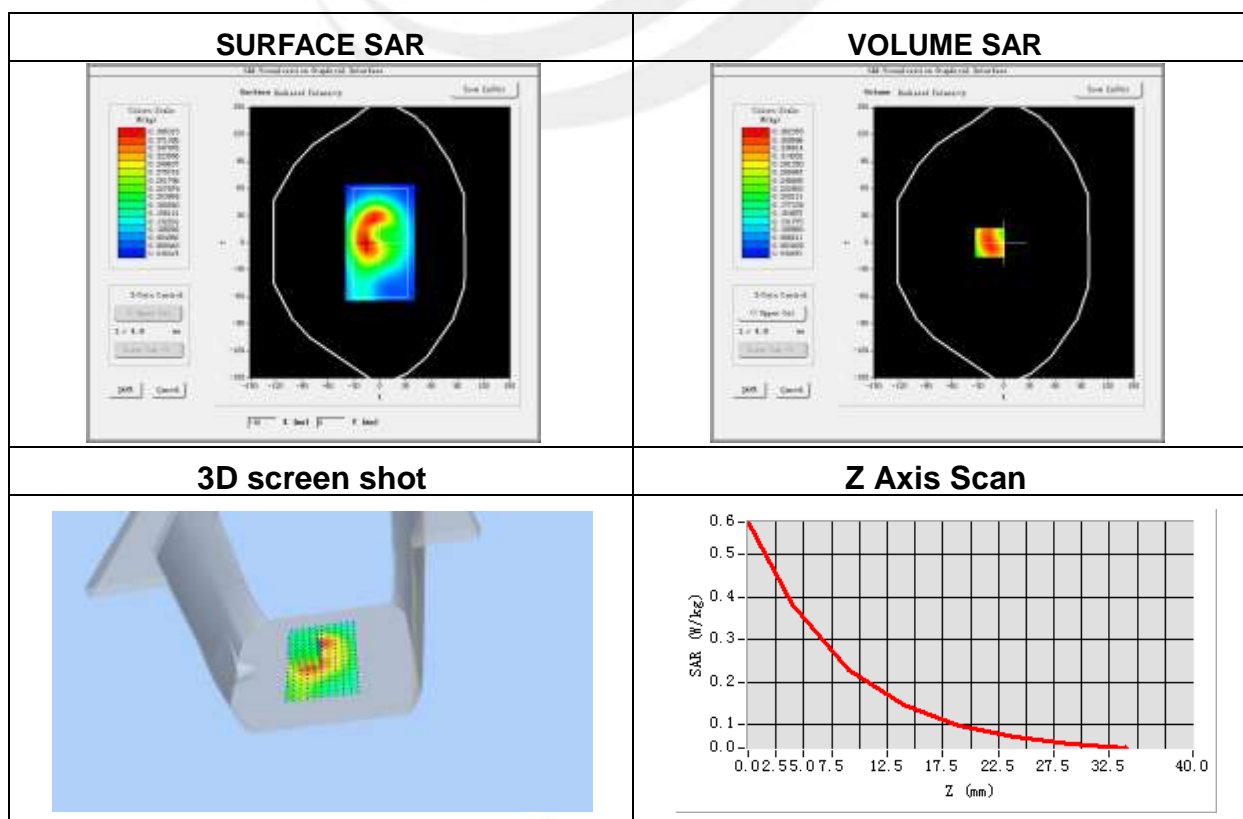
Plot 50: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-3.34

Maximum location: X=-17.00, Y=0.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.222638
SAR 1g (W/Kg)	0.368892



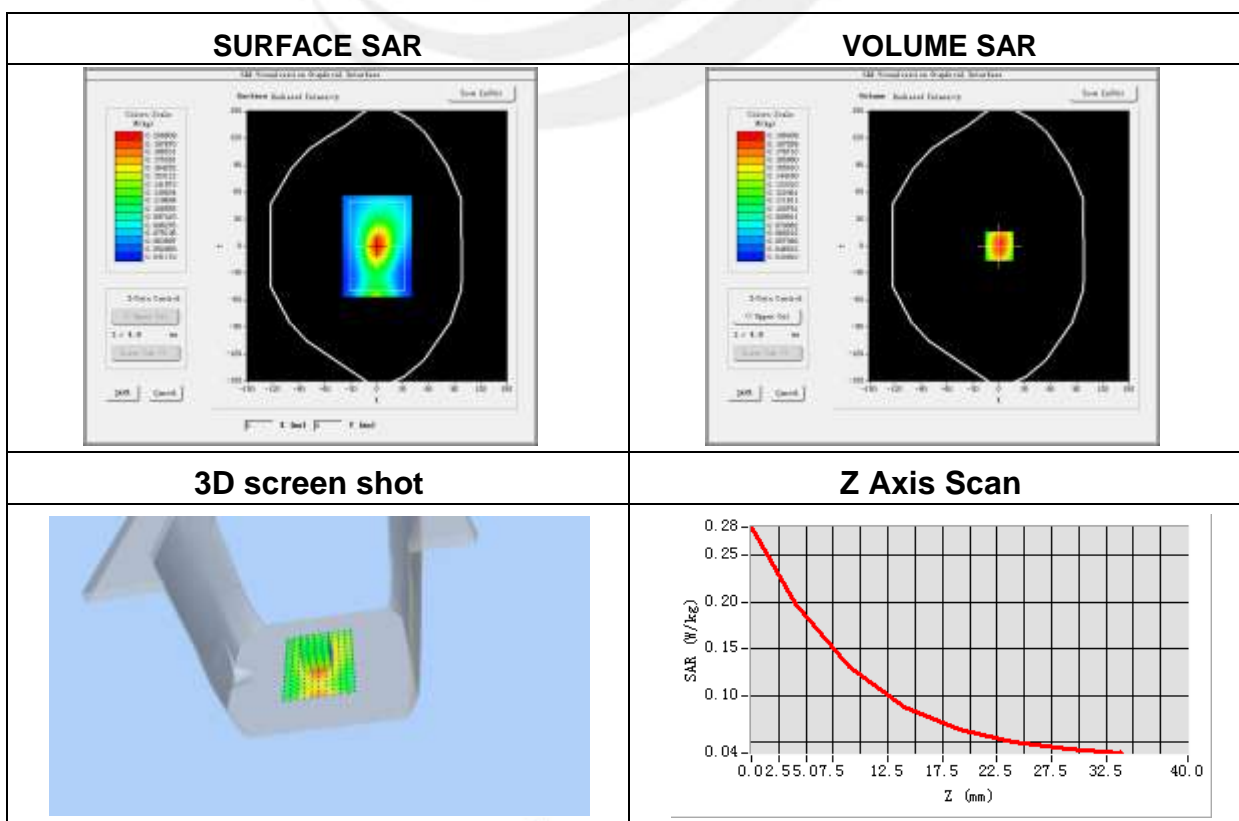
Plot 51: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.30

Maximum location: X=0.00, Y=0.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.121227
SAR 1g (W/Kg)	0.189258



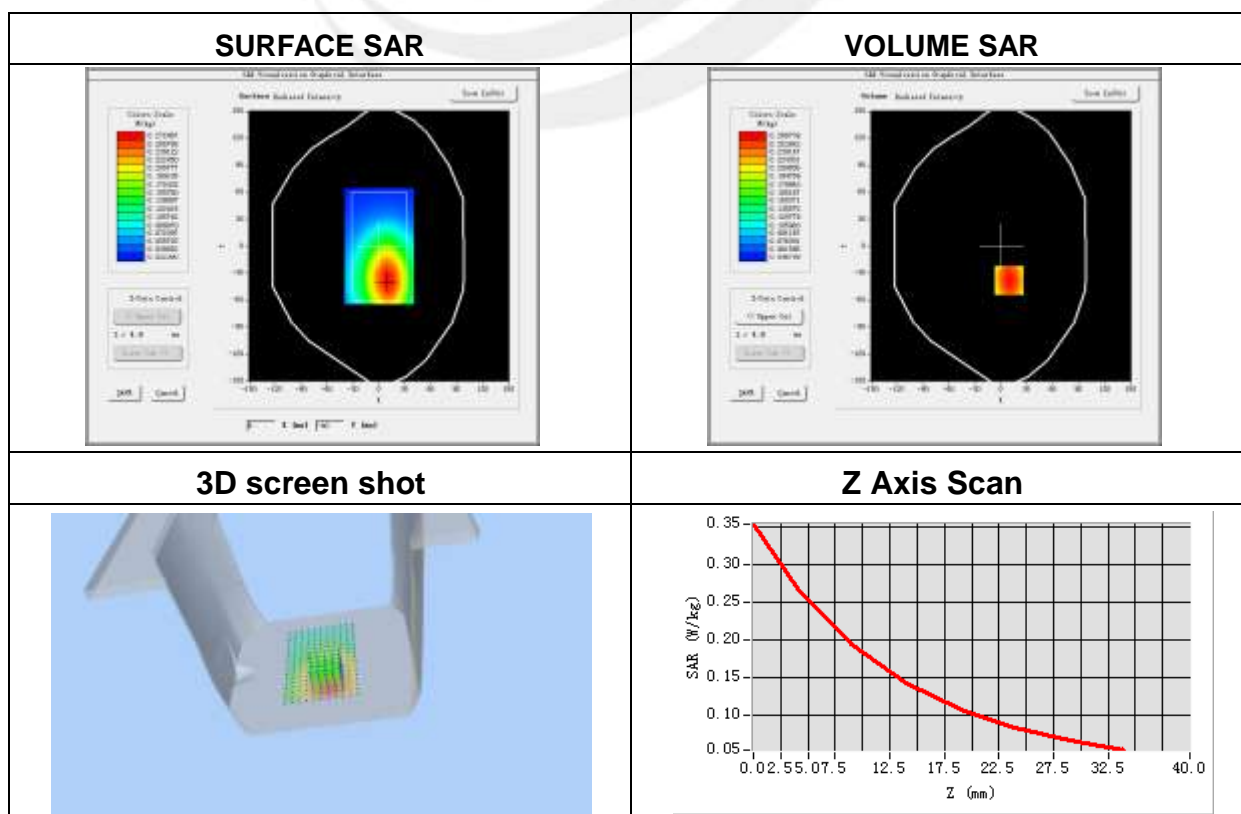
Plot 52: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	1.18

Maximum location: X=7.00, Y=34.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.059379
SAR 1g (W/Kg)	0.077016



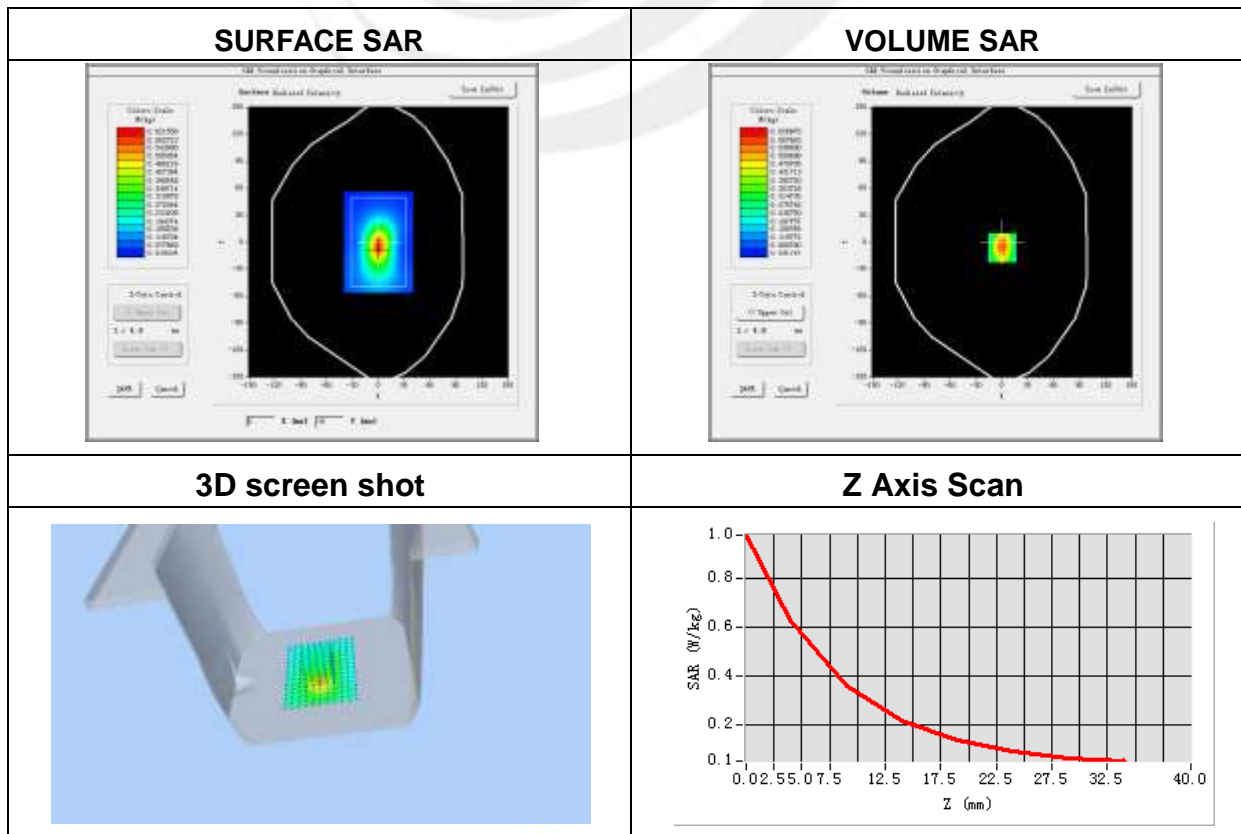
Plot 53: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.24

Maximum location: X=0.00, Y=-6.00

SAR Peak: 0.97 W/kg

SAR 10g (W/Kg)	0.317256
SAR 1g (W/Kg)	0.587818



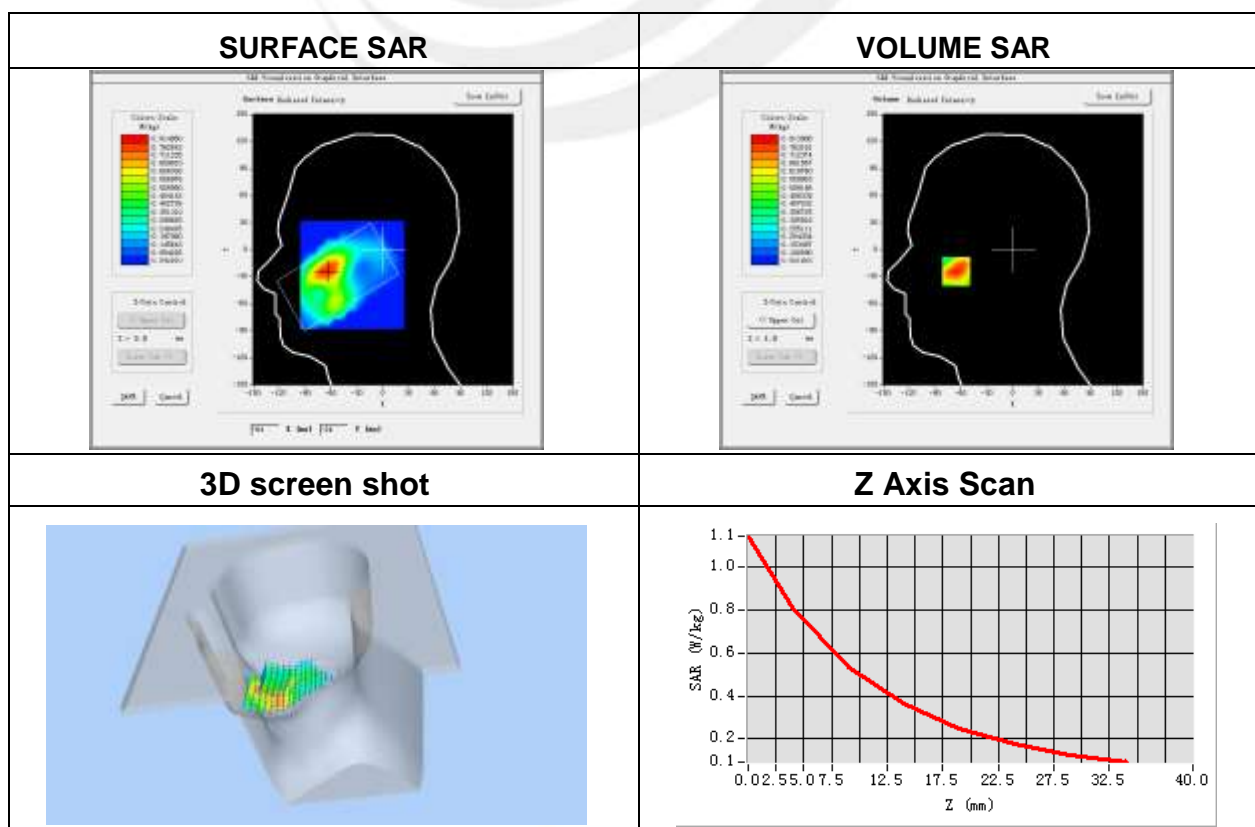
Plot 54: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-1.30

Maximum location: X=-66.00, Y=-24.00

SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.472430
SAR 1g (W/Kg)	0.774077



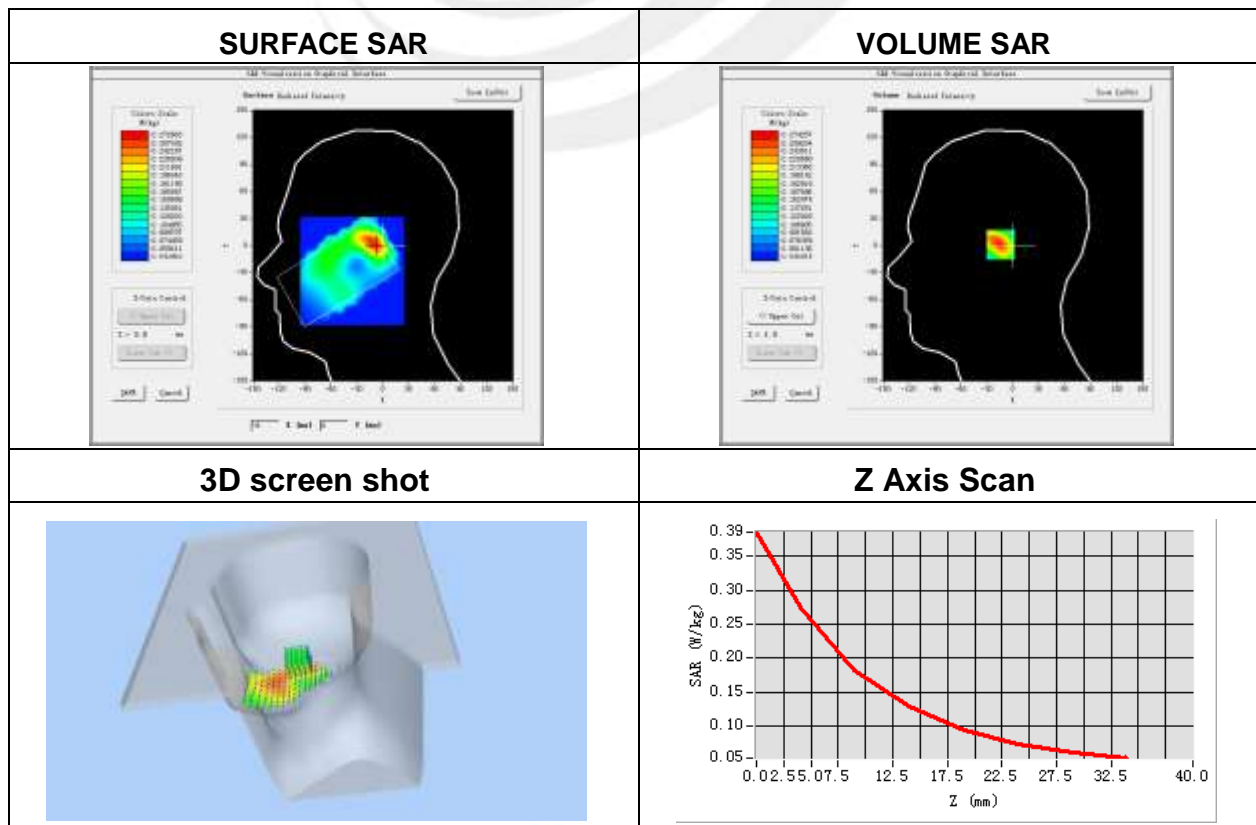
Plot 55: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.47

Maximum location: X=-9.00, Y=1.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.165611
SAR 1g (W/Kg)	0.262874



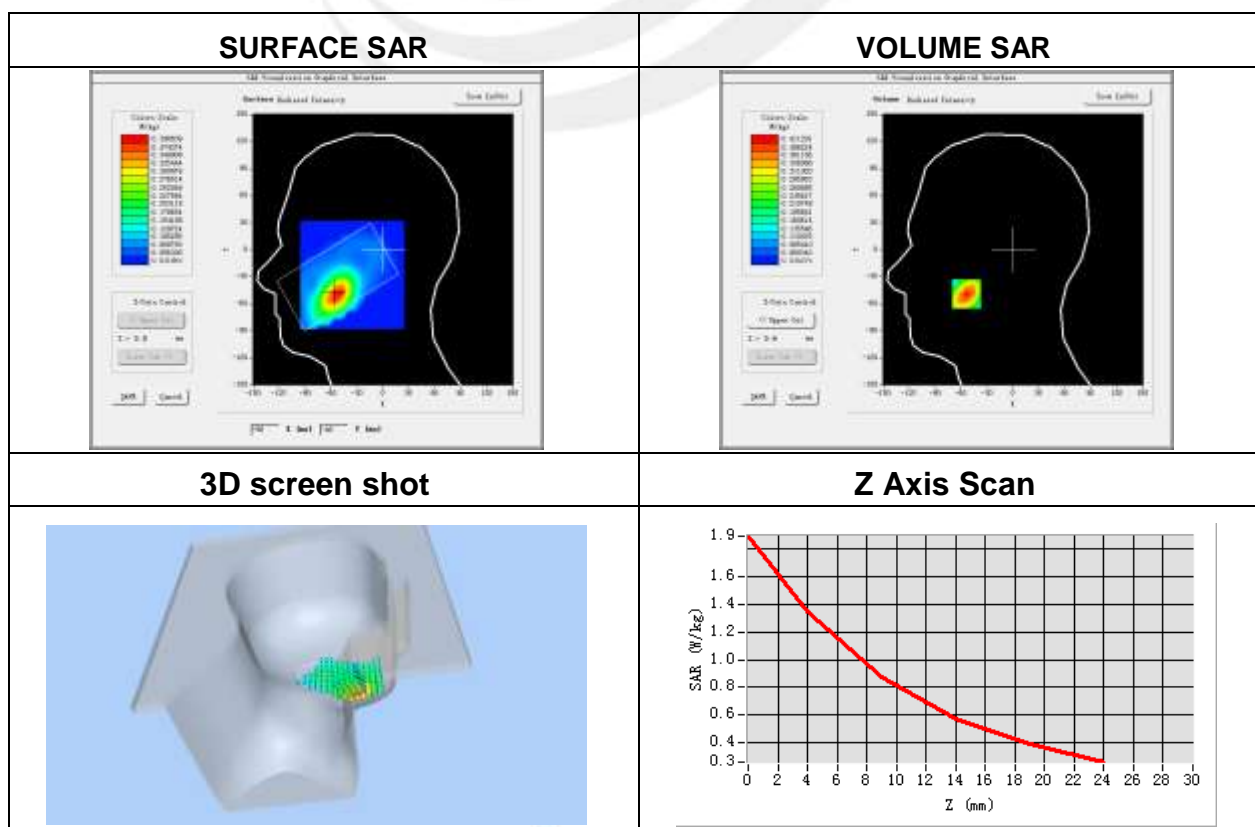
Plot 56: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	0.95

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

SAR Peak: 1.89 W/kg

SAR 10g (W/Kg)	0.746225
SAR 1g (W/Kg)	1.254899



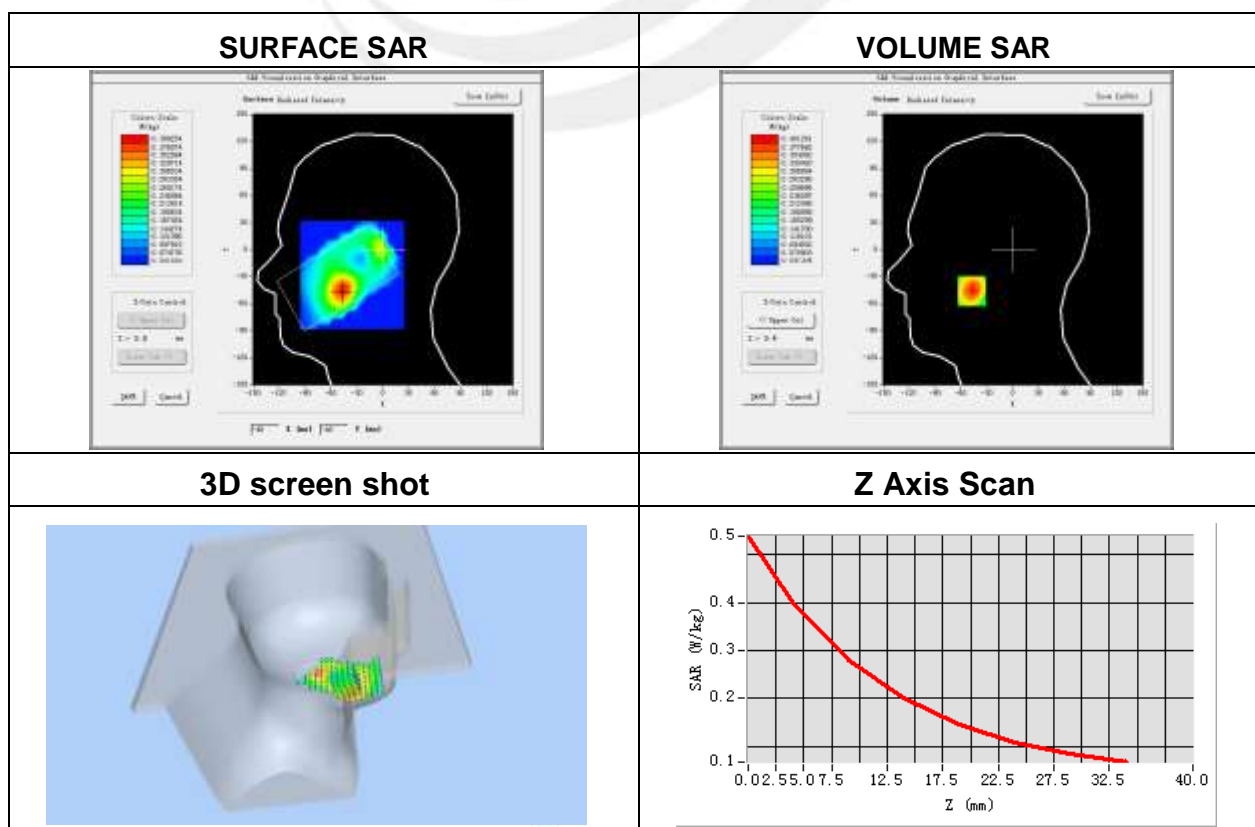
Plot 57: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.55

Maximum location: X=-48.00, Y=-46.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.248727
SAR 1g (W/Kg)	0.383685



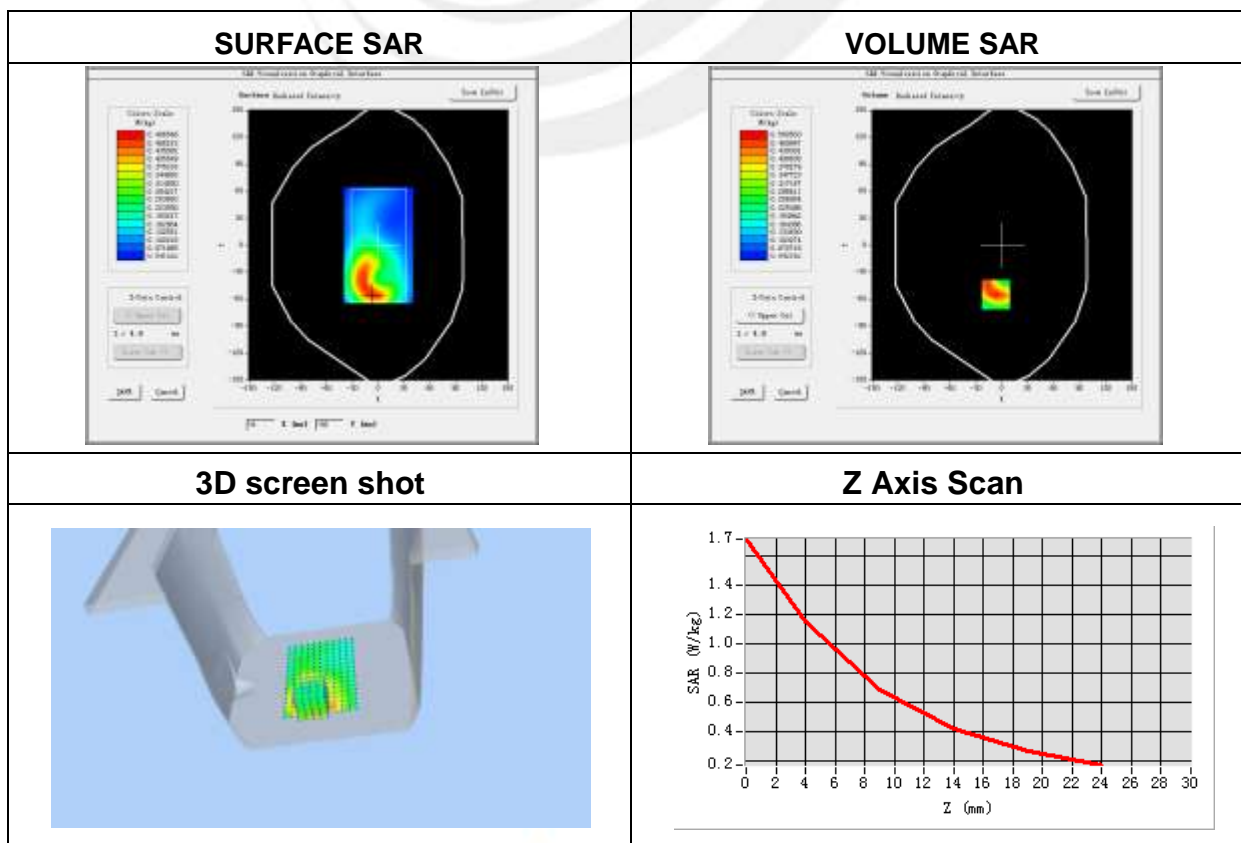
Plot 58: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	0.85

Maximum location: X=17.00, Y=-7.00

SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.648721
SAR 1g (W/Kg)	1.092246



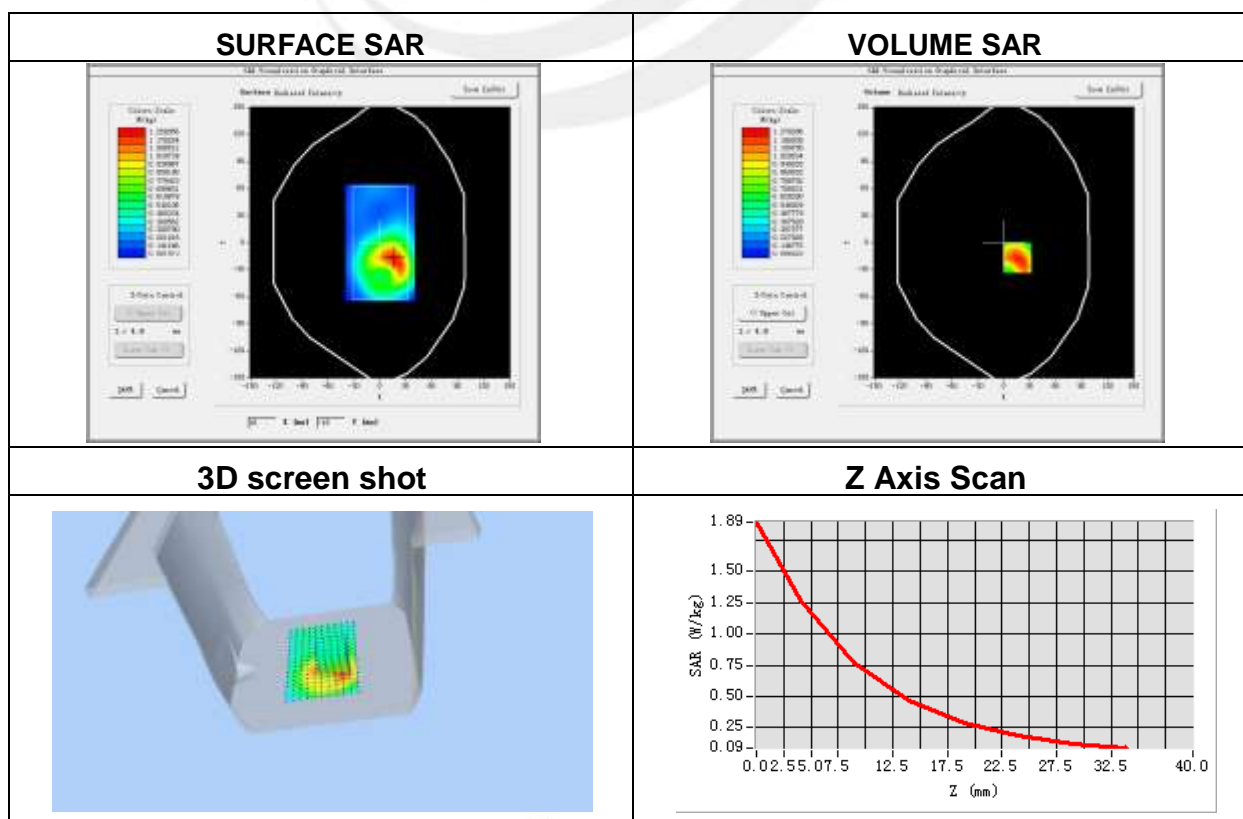
Plot 59: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.76

Maximum location: X=15.00, Y=-17.00

SAR Peak: 1.96 W/kg

SAR 10g (W/Kg)	0.705066
SAR 1g (W/Kg)	1.220201



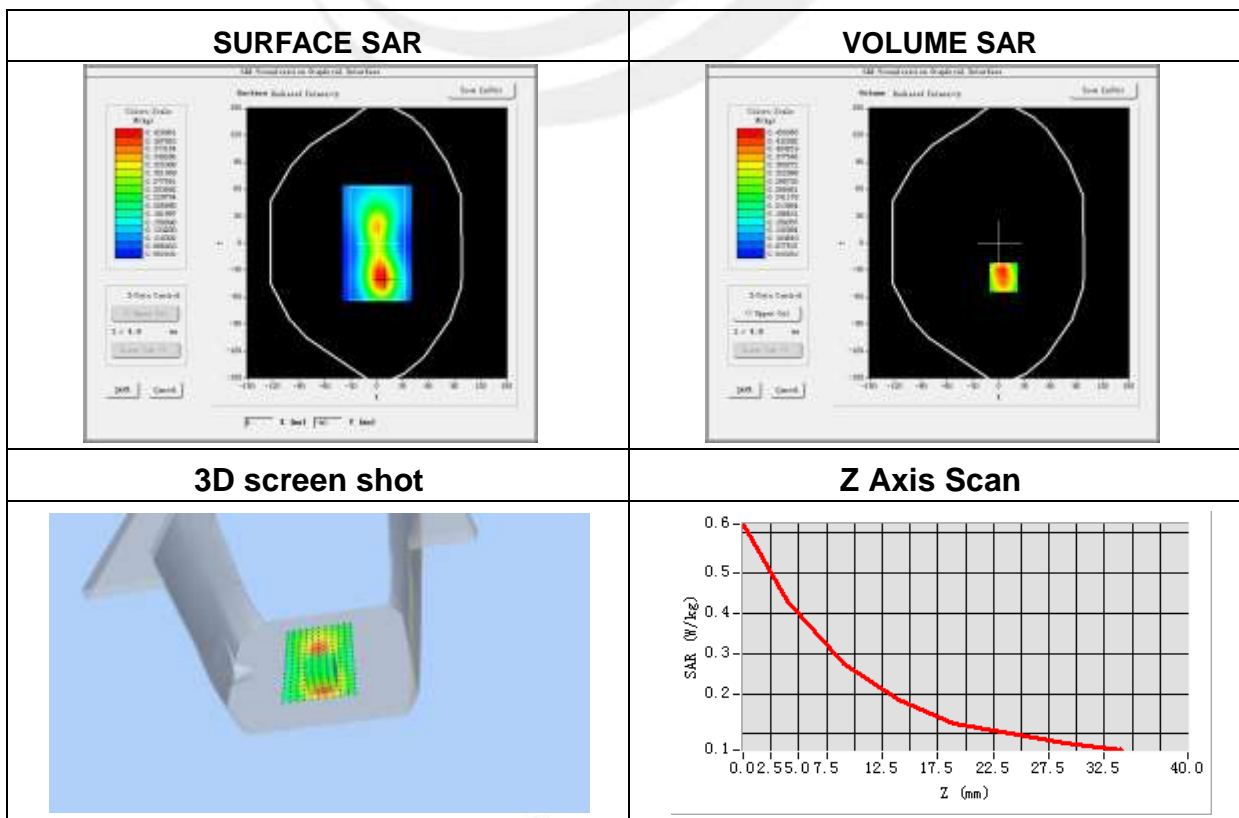
Plot 60: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	0.44

Maximum location: X=5.00, Y=-38.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.260020
SAR 1g (W/Kg)	0.439145



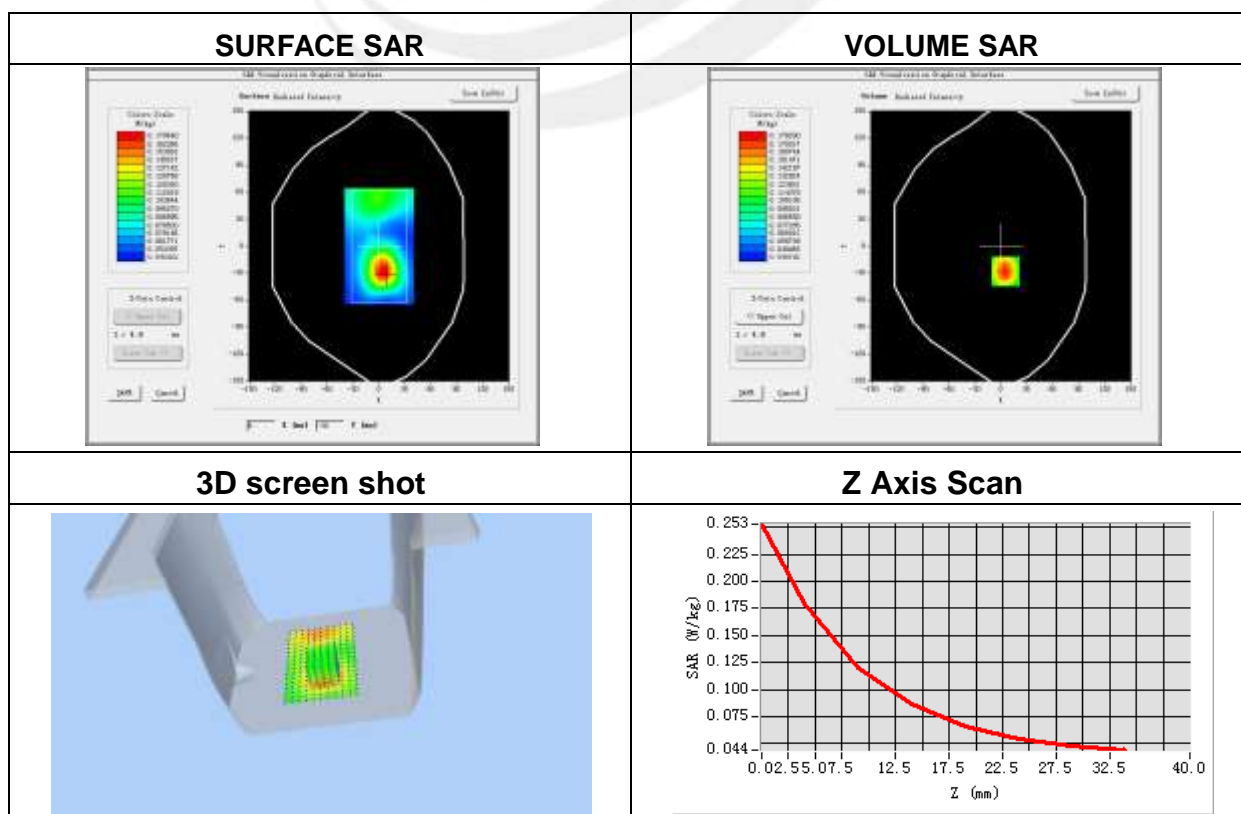
Plot 61: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.63

Maximum location: X=5.00, Y=-28.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.113100
SAR 1g (W/Kg)	0.172991



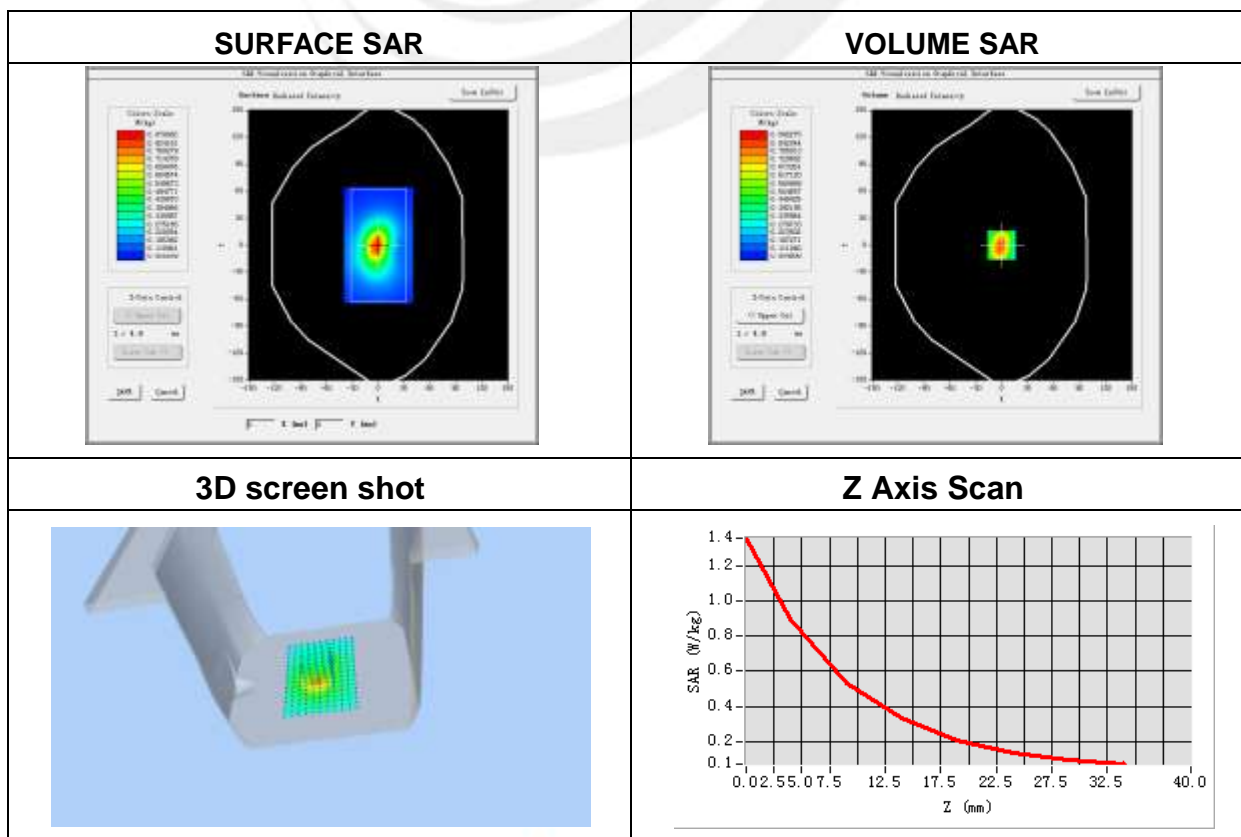
Plot 62: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 (%)	-0.31

Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.36 W/kg

SAR 10g (W/Kg)	0.465865
SAR 1g (W/Kg)	0.847599



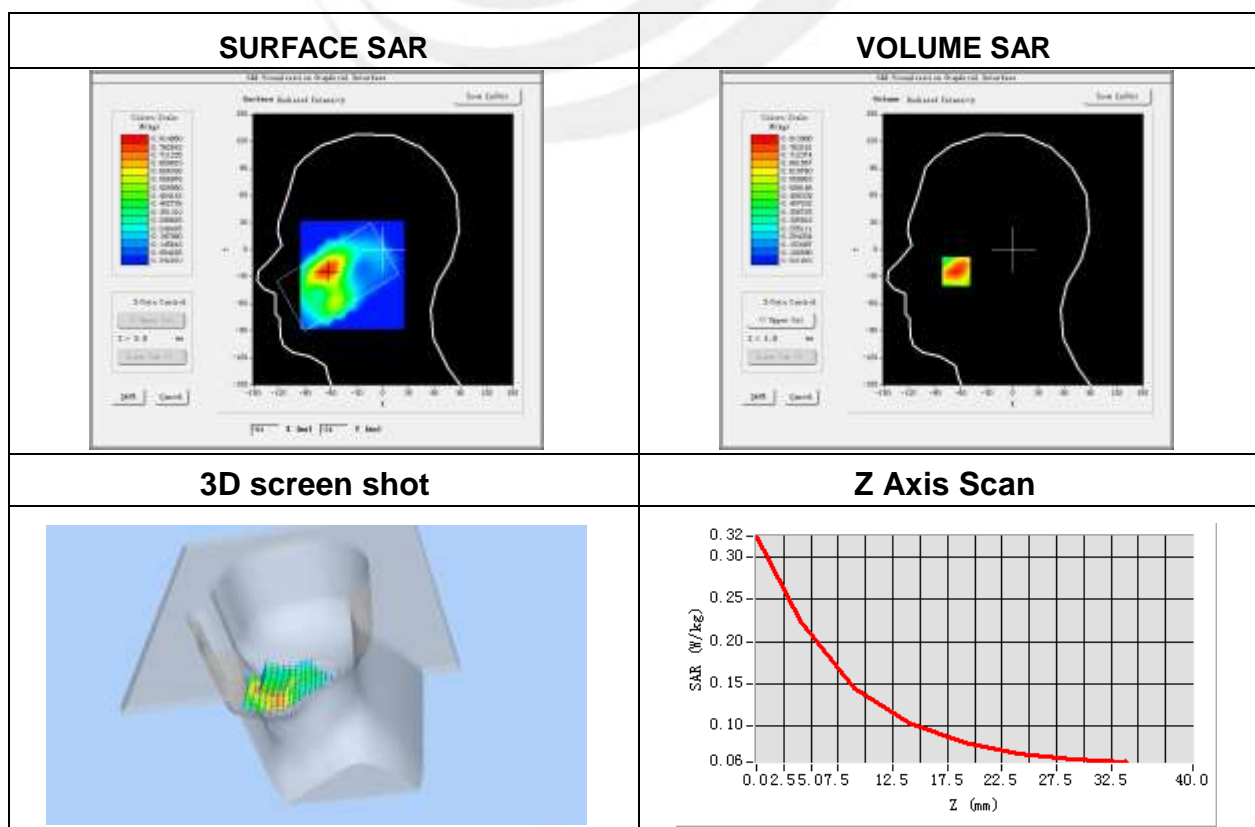
Plot 63: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	1.29

Maximum location: X=-50.00, Y=-10.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.136359
SAR 1g (W/Kg)	0.213881



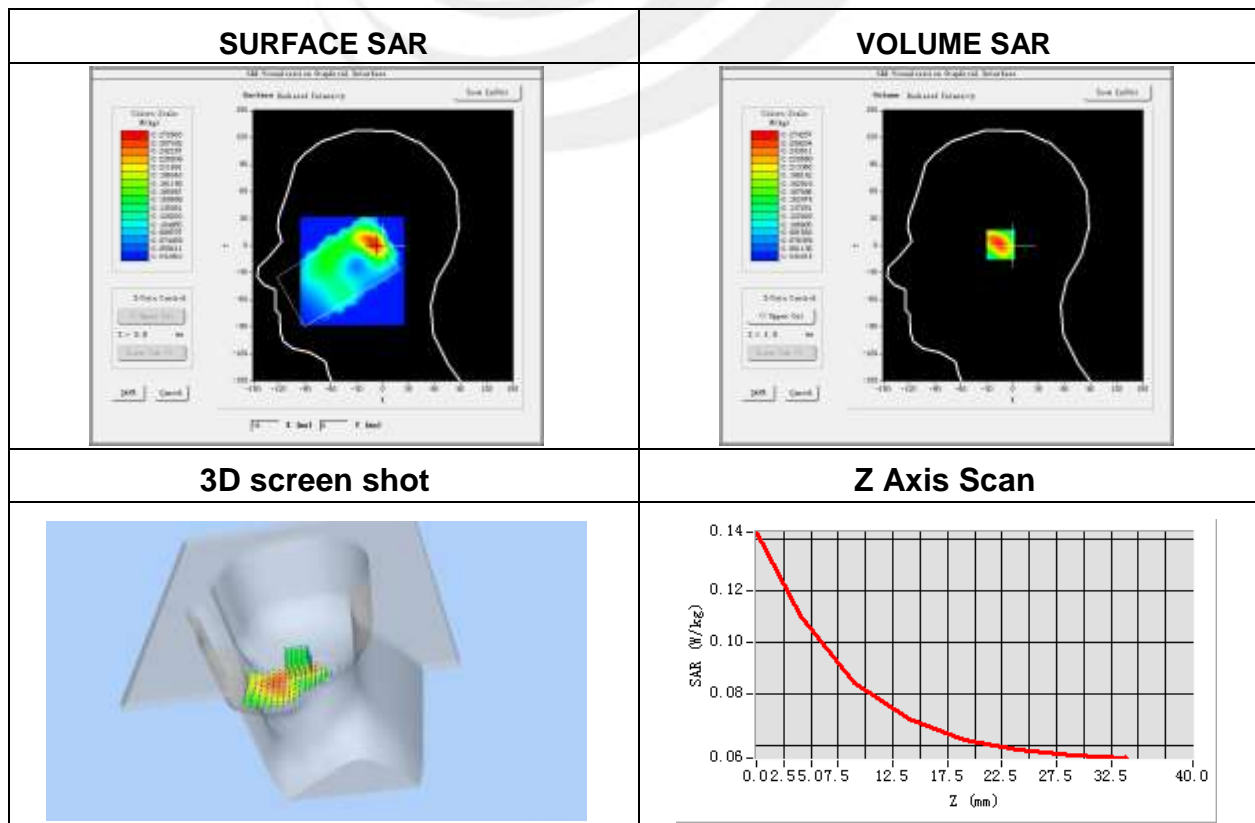
Plot 64: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-0.89

Maximum location: X=-16.00, Y=8.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.079764
SAR 1g (W/Kg)	0.106168



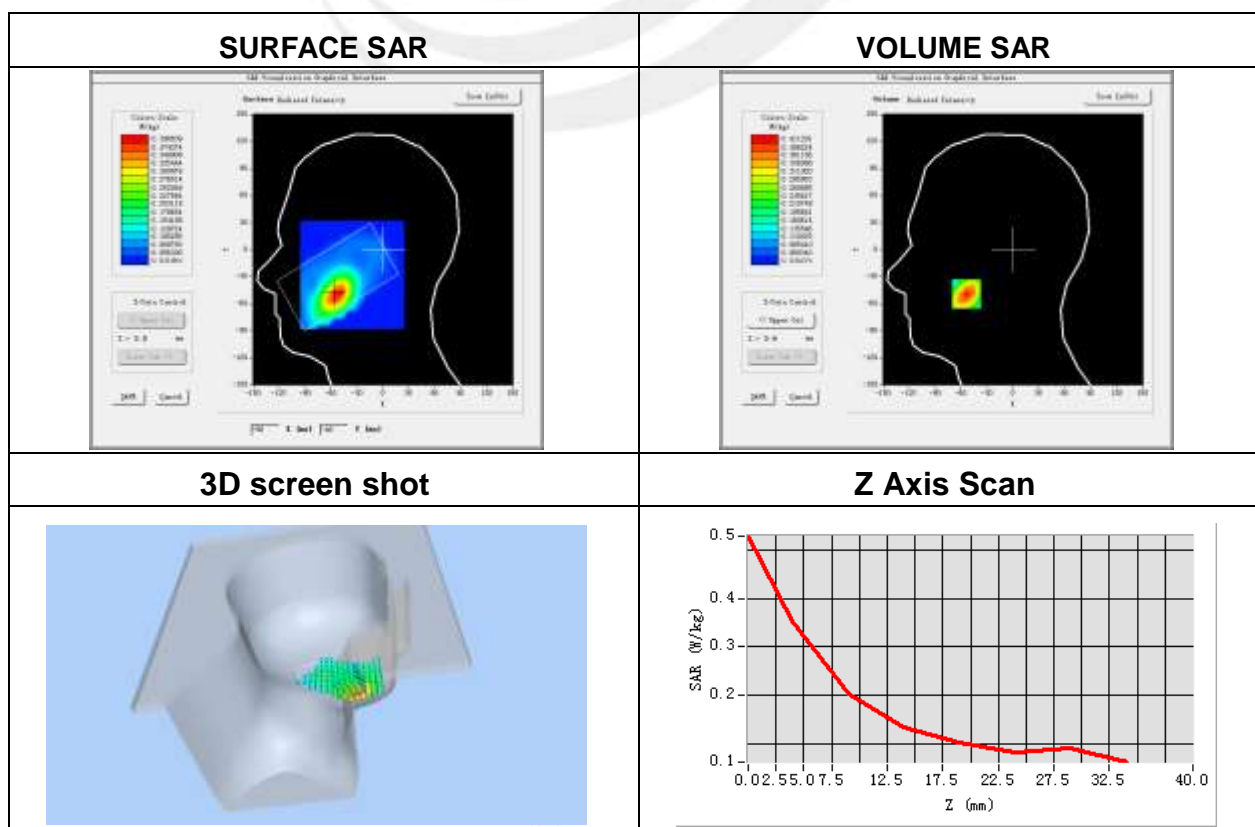
Plot 65: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	1.06

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

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.191834
SAR 1g (W/Kg)	0.331812



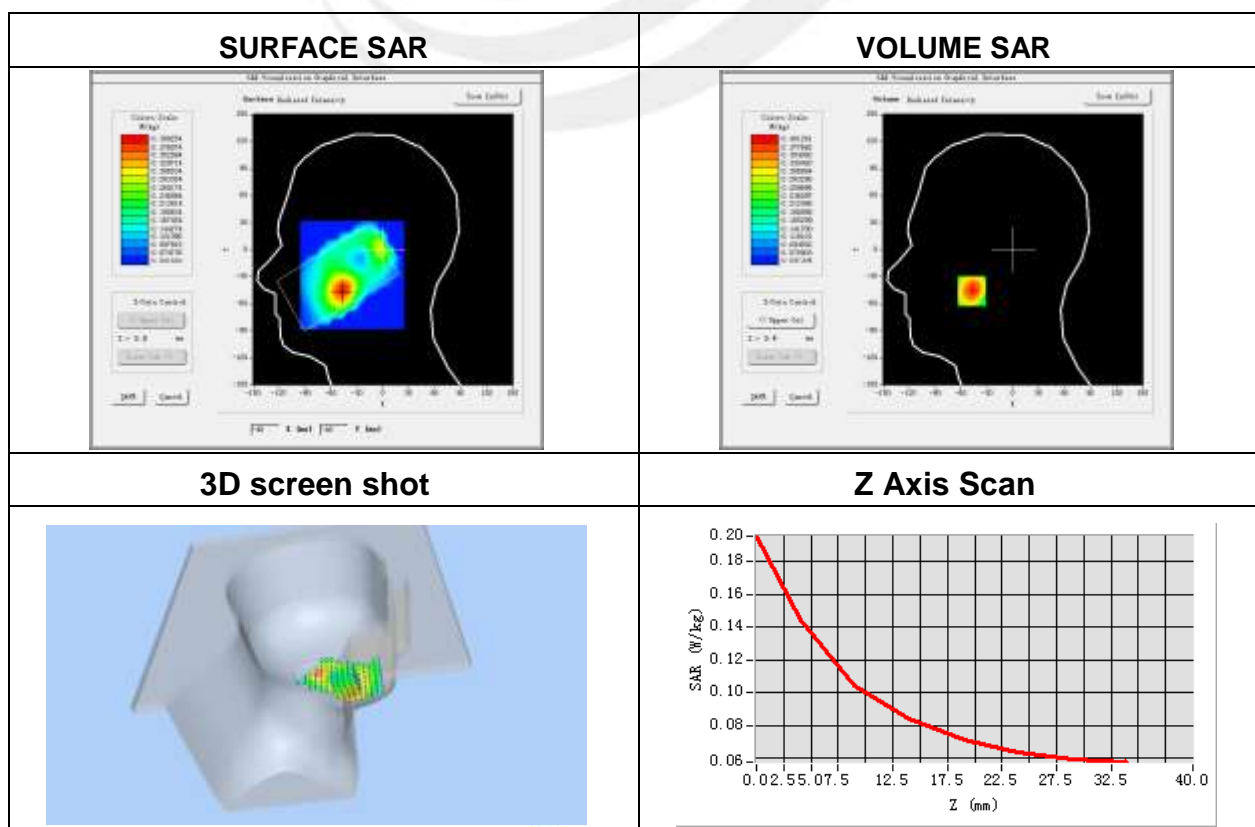
Plot 66: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-4.03

Maximum location: X=-40.00, Y=-40.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.098184
SAR 1g (W/Kg)	0.139227



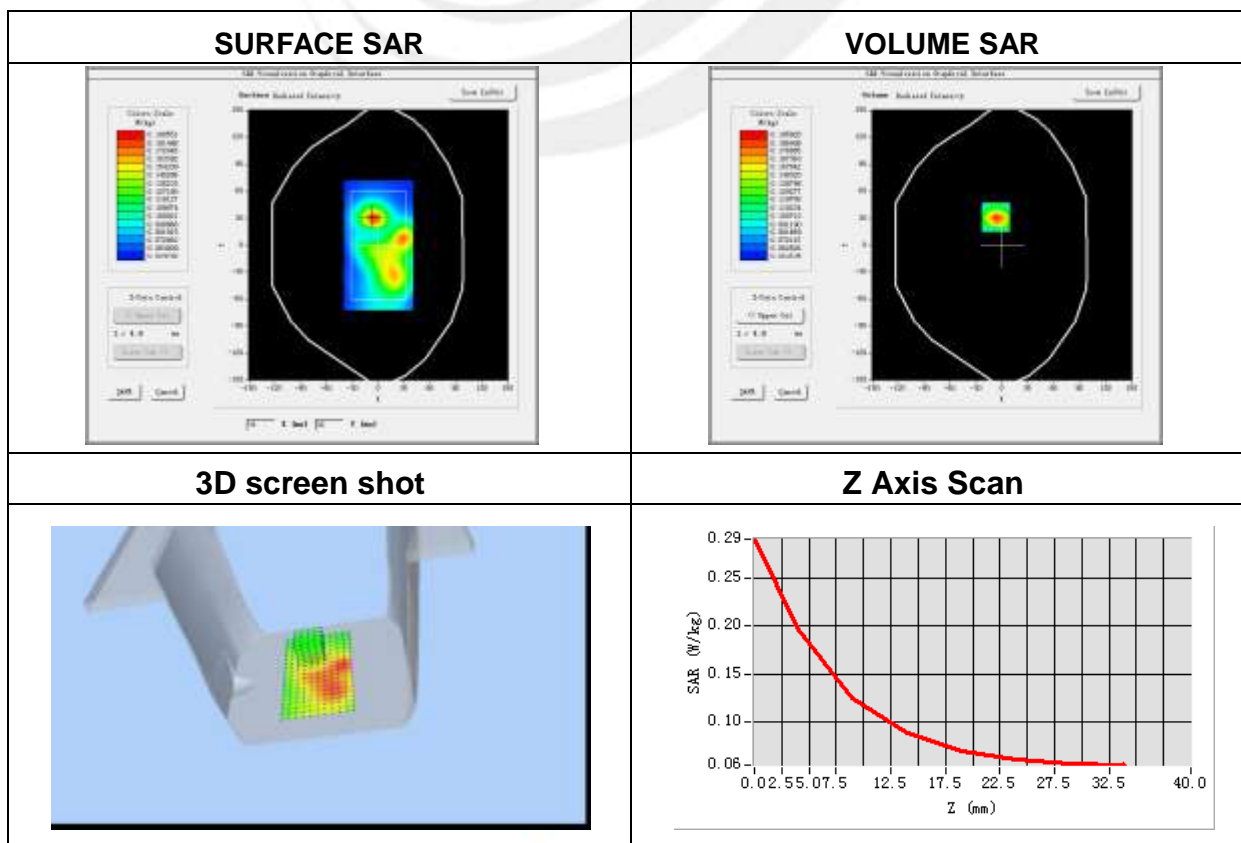
Plot 67: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-1.54

Maximum location: X=-7.00, Y=31.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.113540
SAR 1g (W/Kg)	0.186351



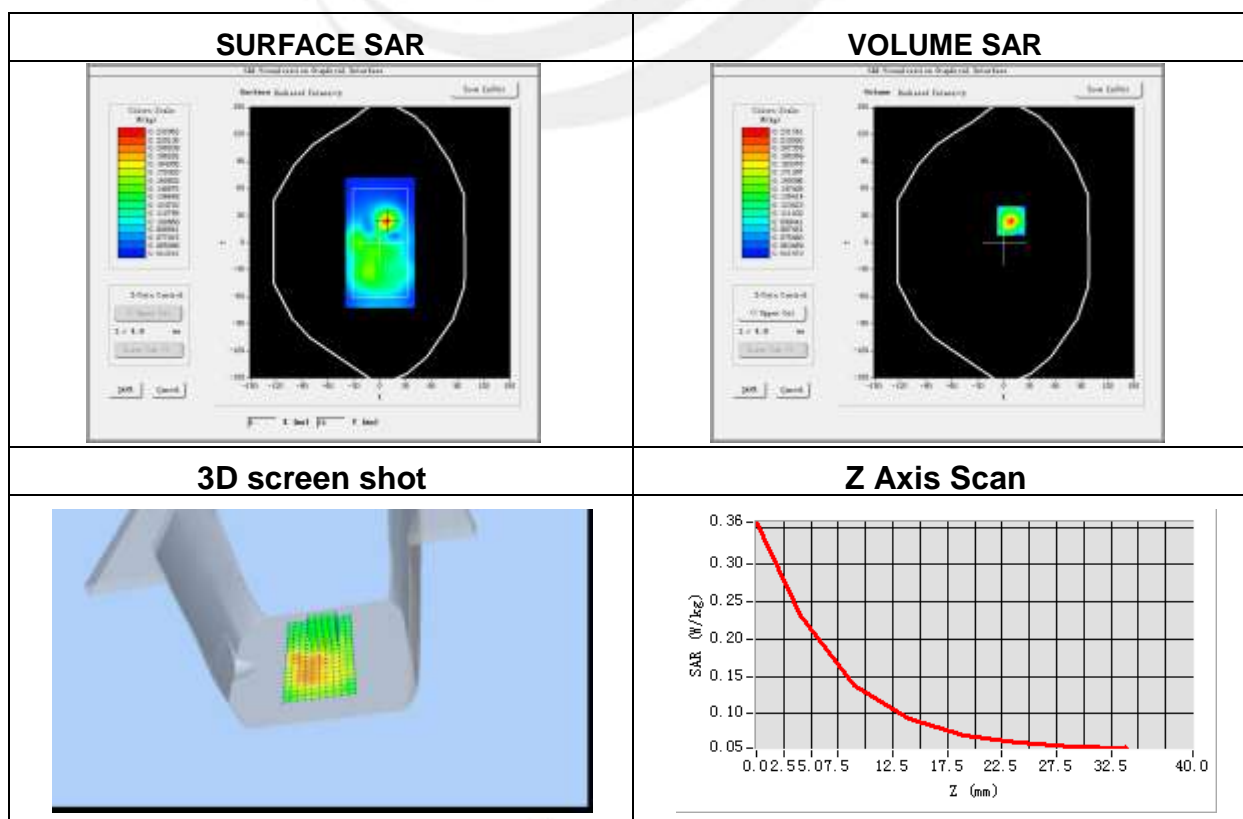
Plot 68: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-2.17

Maximum location: X=8.00, Y=24.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.120133
SAR 1g (W/Kg)	0.213856



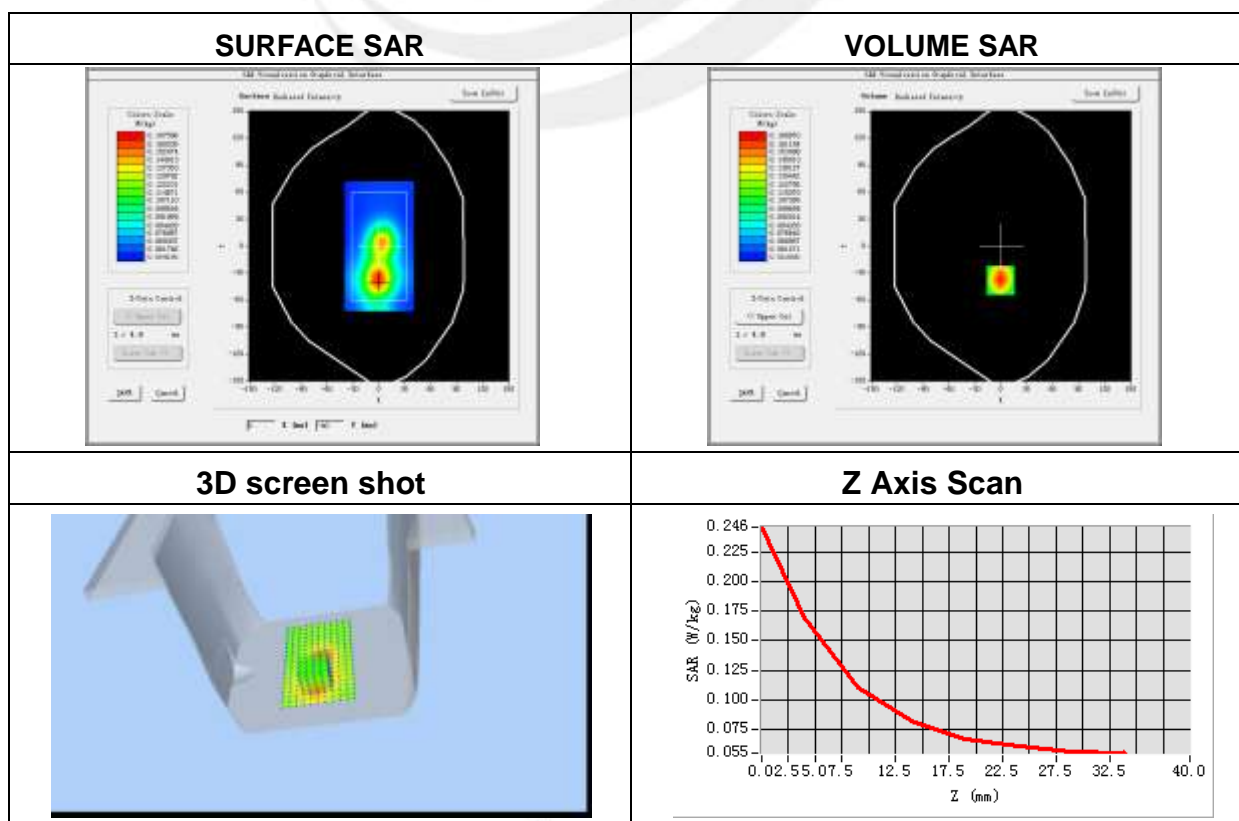
Plot 69: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	0.43

Maximum location: X=-1.00, Y=-38.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.108231
SAR 1g (W/Kg)	0.163152



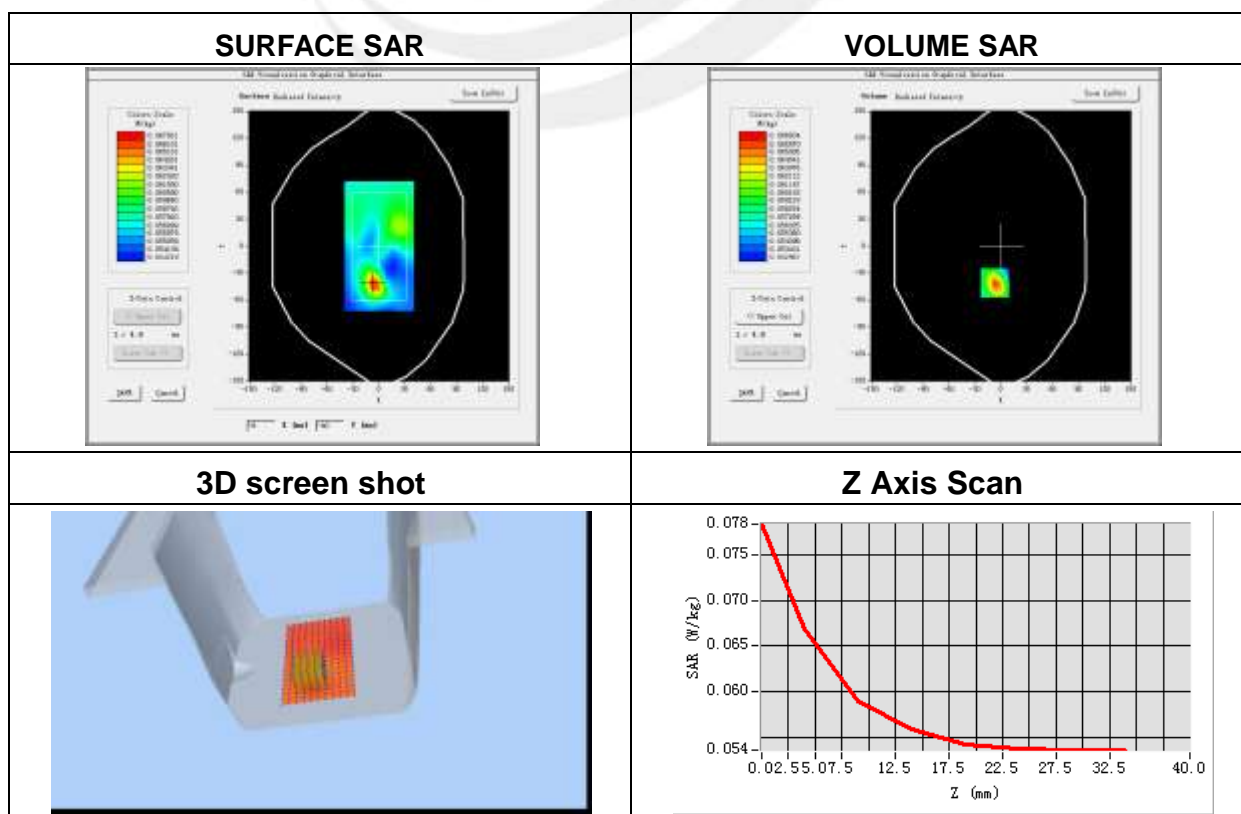
Plot 70: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	1.06

Maximum location: X=-7.00, Y=-41.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.058581
SAR 1g (W/Kg)	0.066077



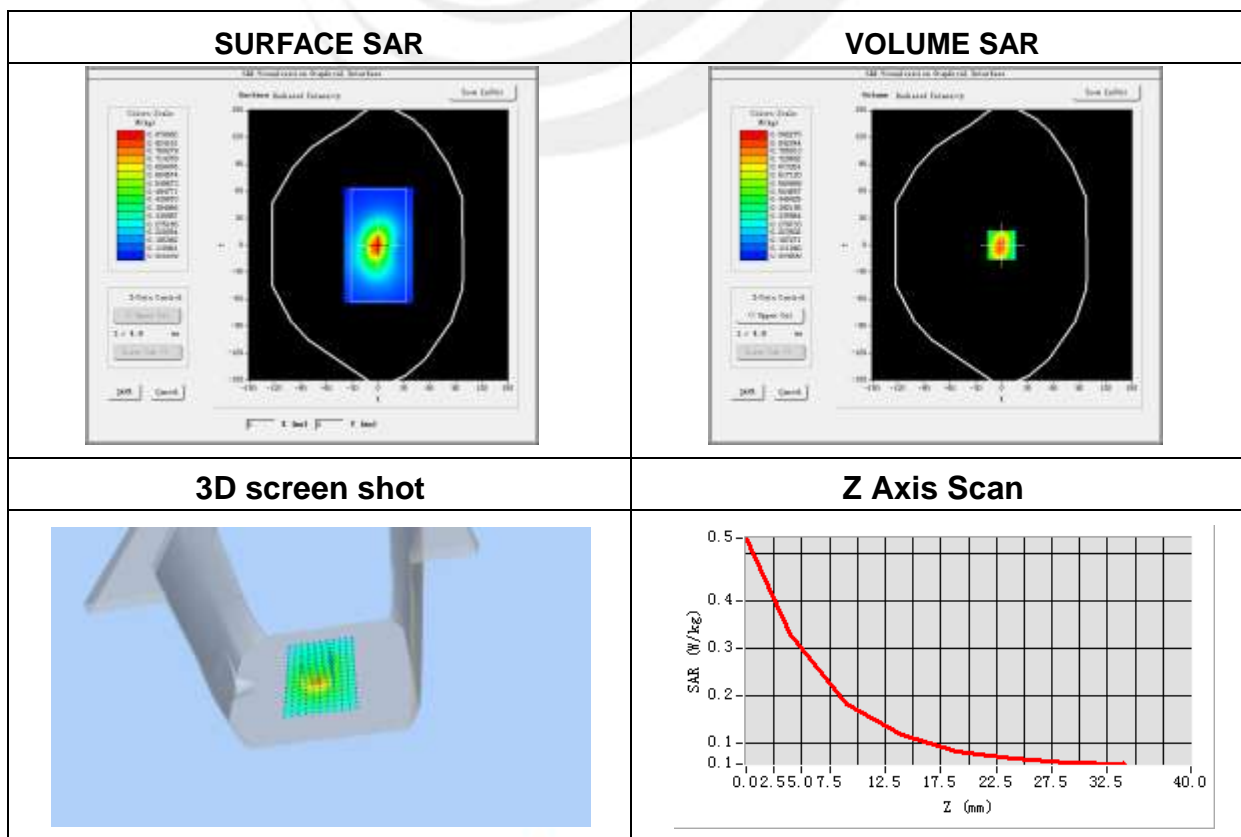
Plot 71: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	0.70

Maximum location: X=-1.00, Y=-8.00

SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.161290
SAR 1g (W/Kg)	0.301920



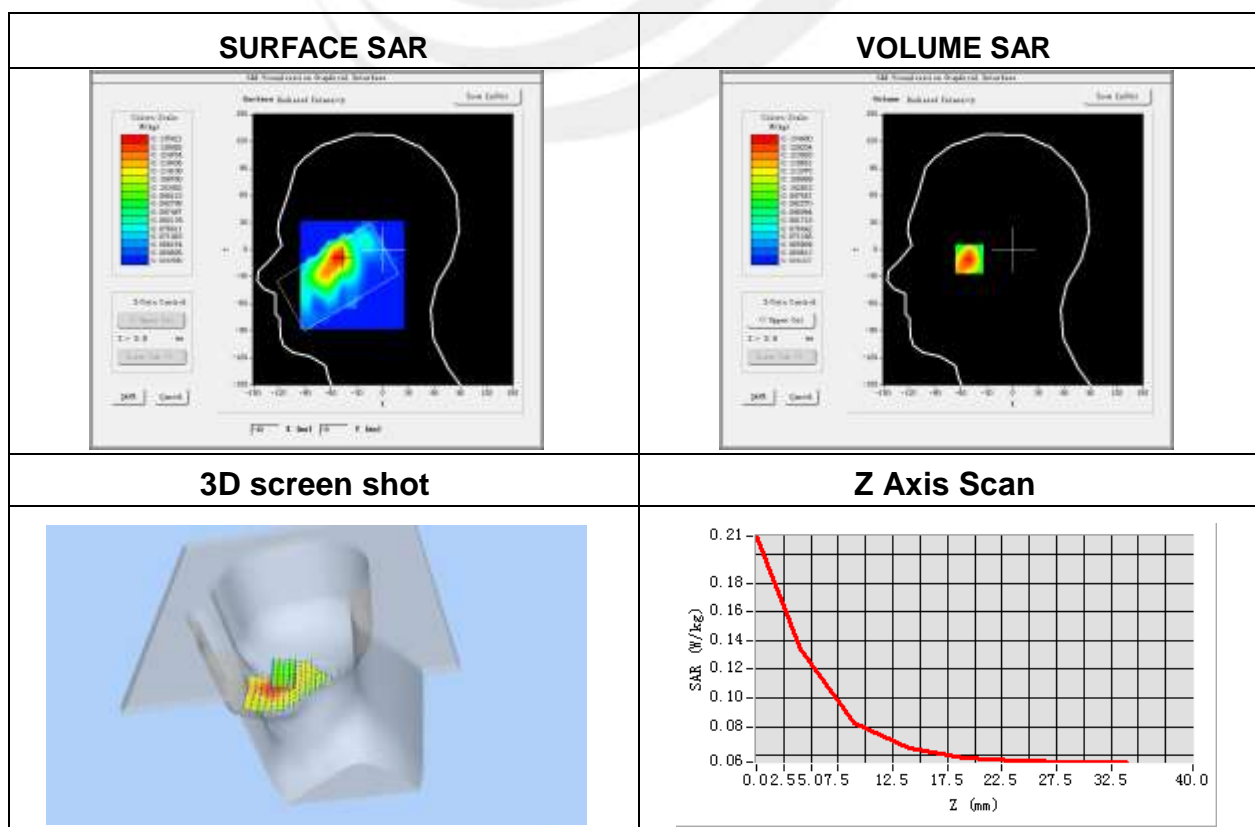
Plot 72: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	0.44

Maximum location: X=-51.00, Y=-8.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.089199
SAR 1g (W/Kg)	0.133151



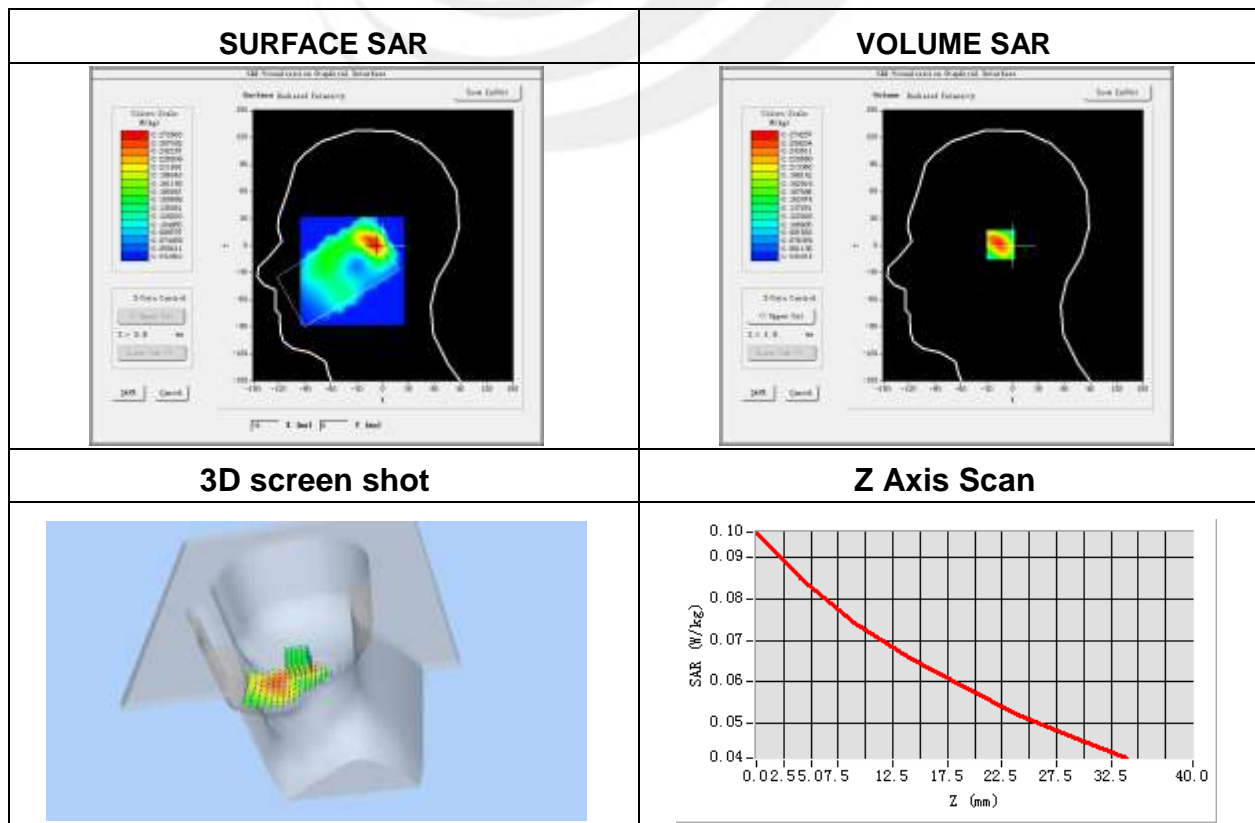
Plot 73: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	0.63

Maximum location: X=-41.00, Y=-24.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.071288
SAR 1g (W/Kg)	0.085086



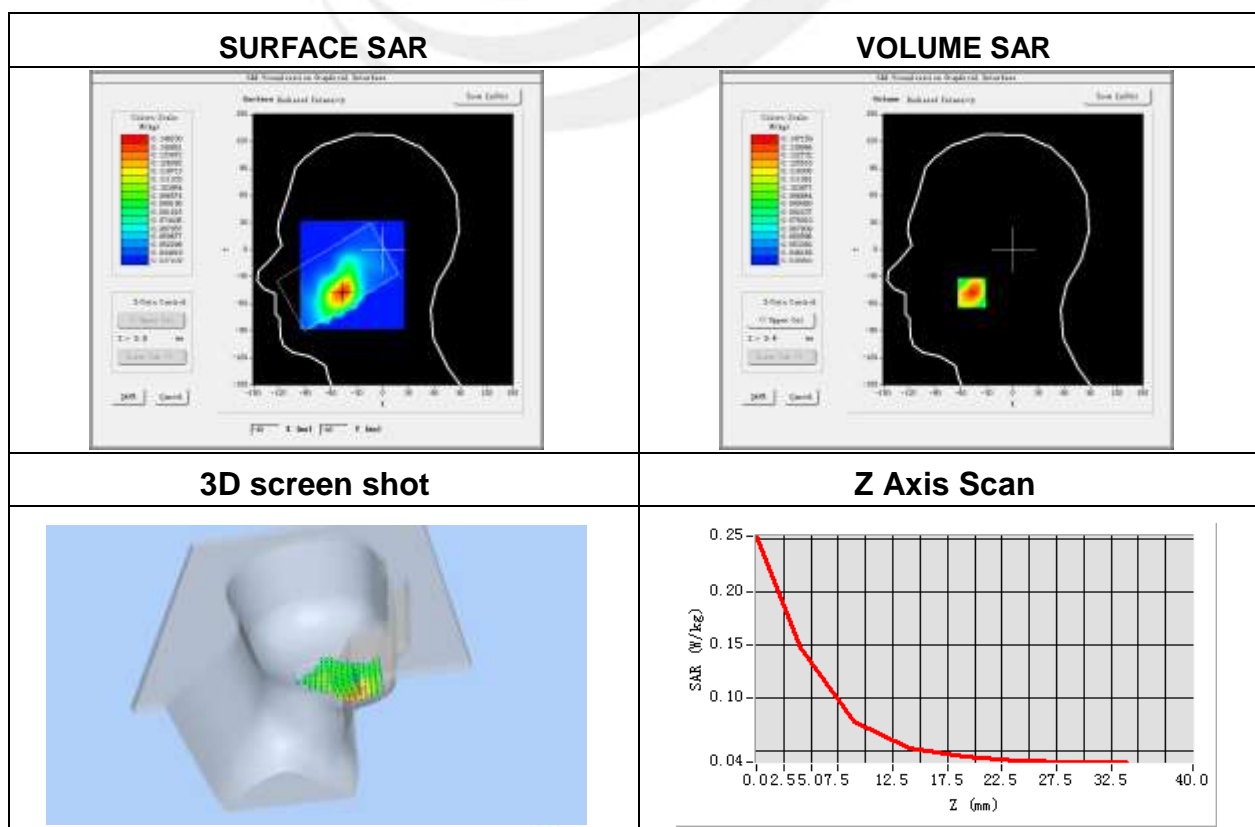
Plot 74: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	2.13

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

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.084365
SAR 1g (W/Kg)	0.145489



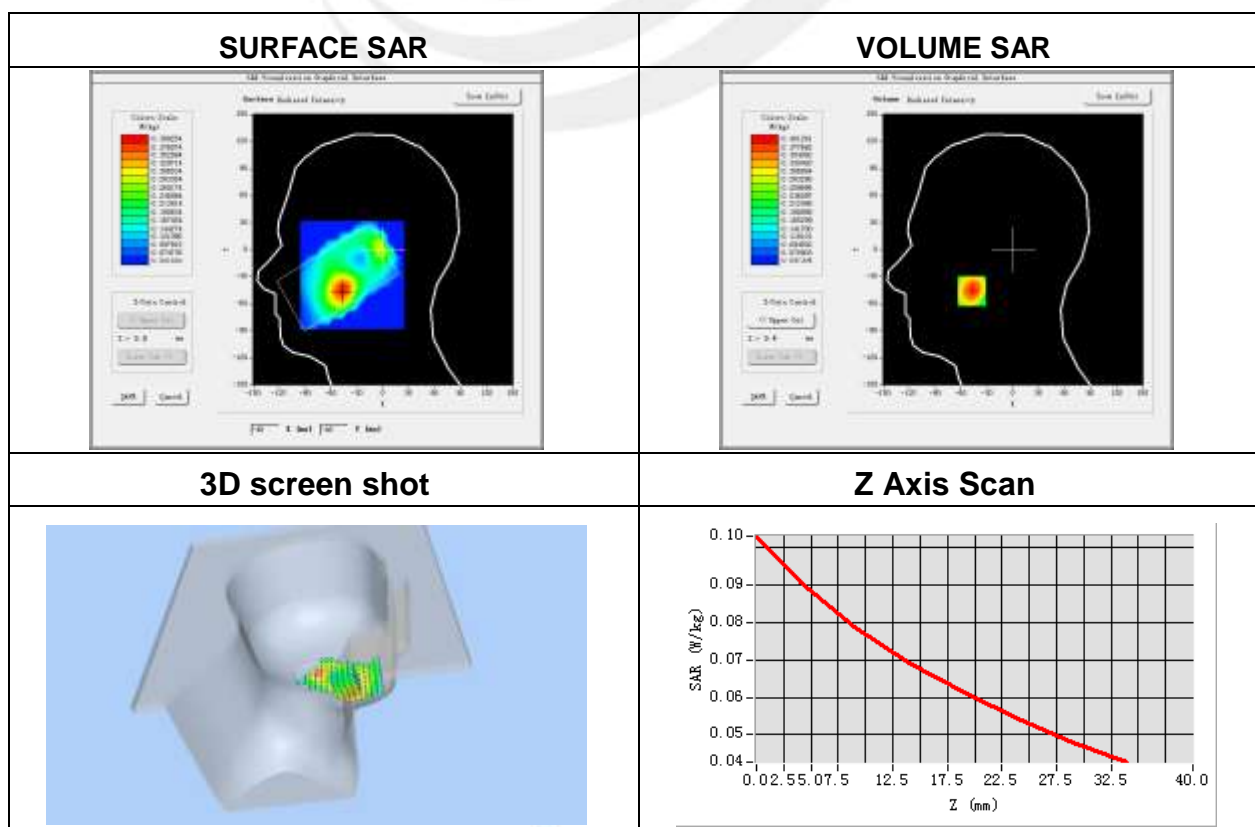
Plot 75: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	0.37

Maximum location: X=-40.00, Y=-24.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.075055
SAR 1g (W/Kg)	0.090565



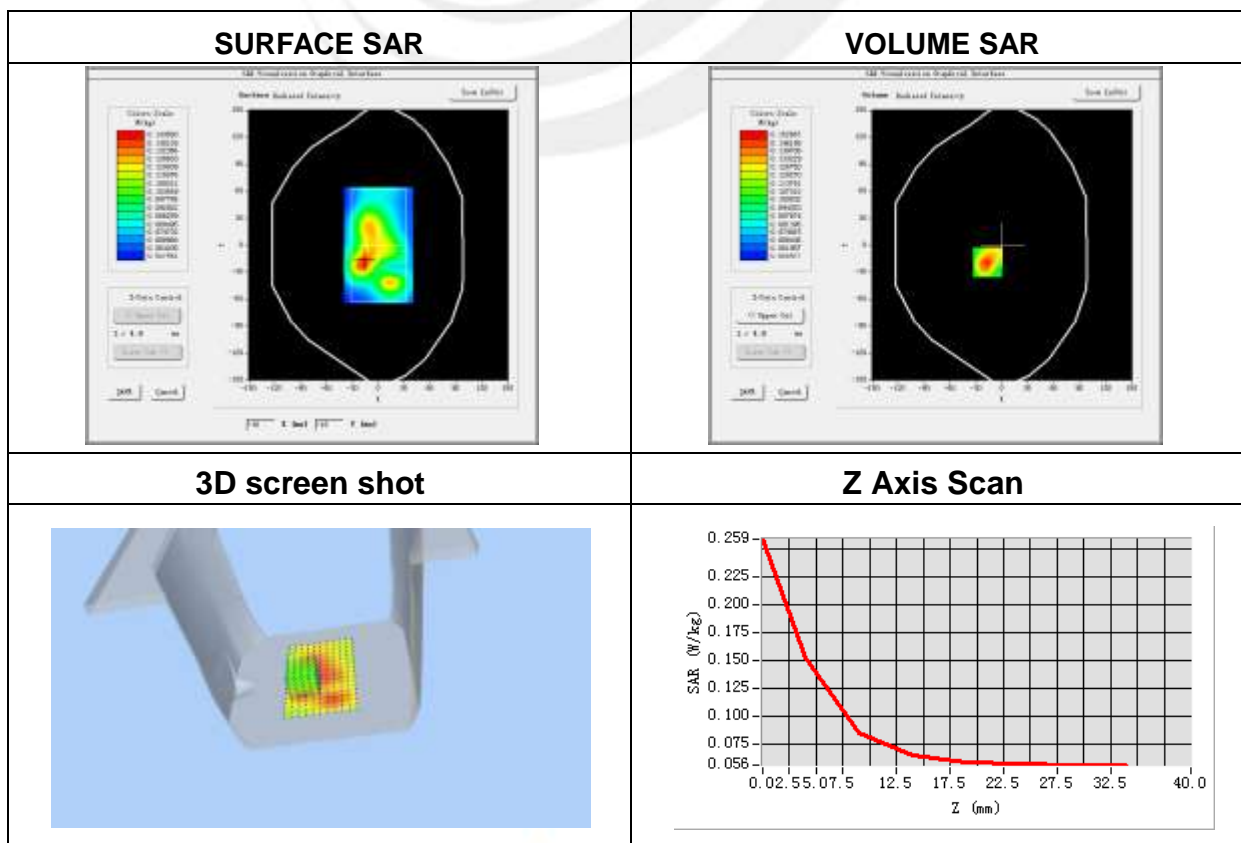
Plot 76: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	3.73

Maximum location: X=-17.00, Y=-19.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.094777
SAR 1g (W/Kg)	0.152151



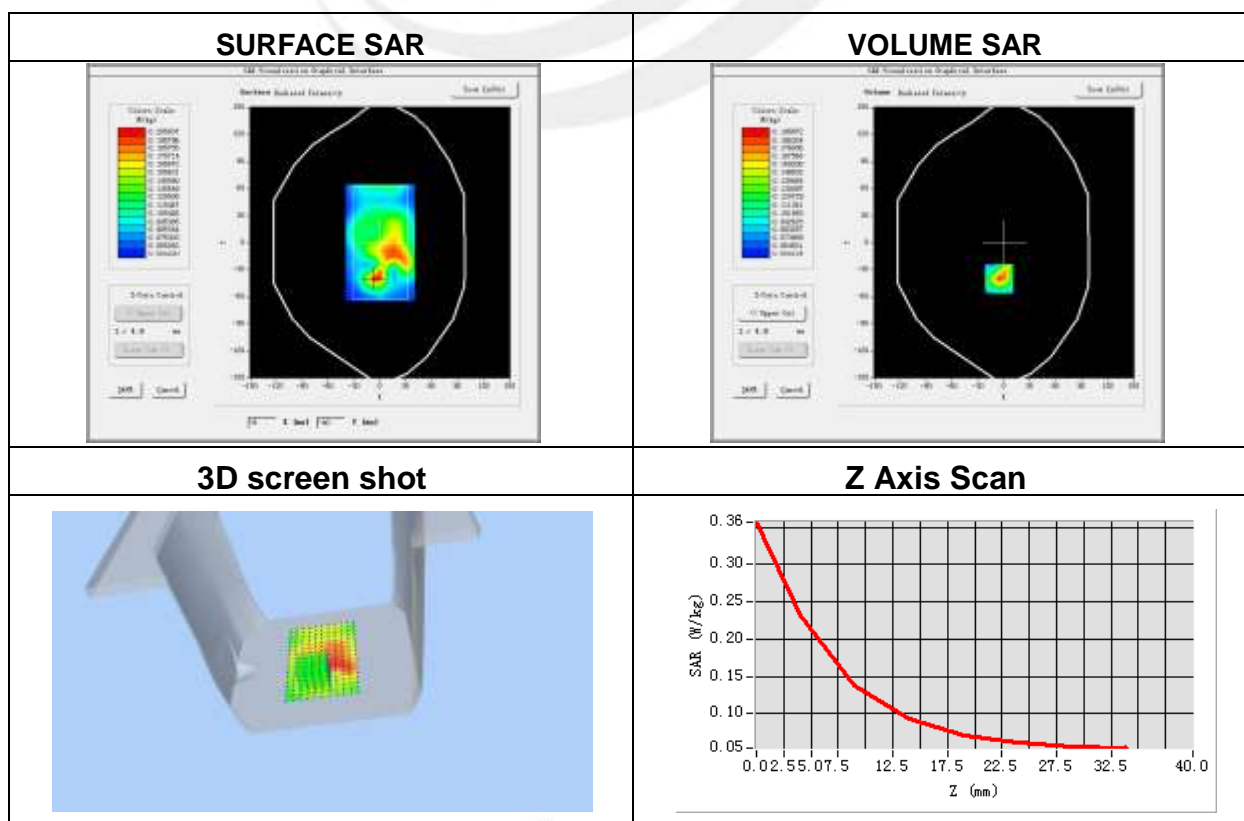
Plot 77: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-3.69

Maximum location: X=-6.00, Y=-40.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.103813
SAR 1g (W/Kg)	0.191378



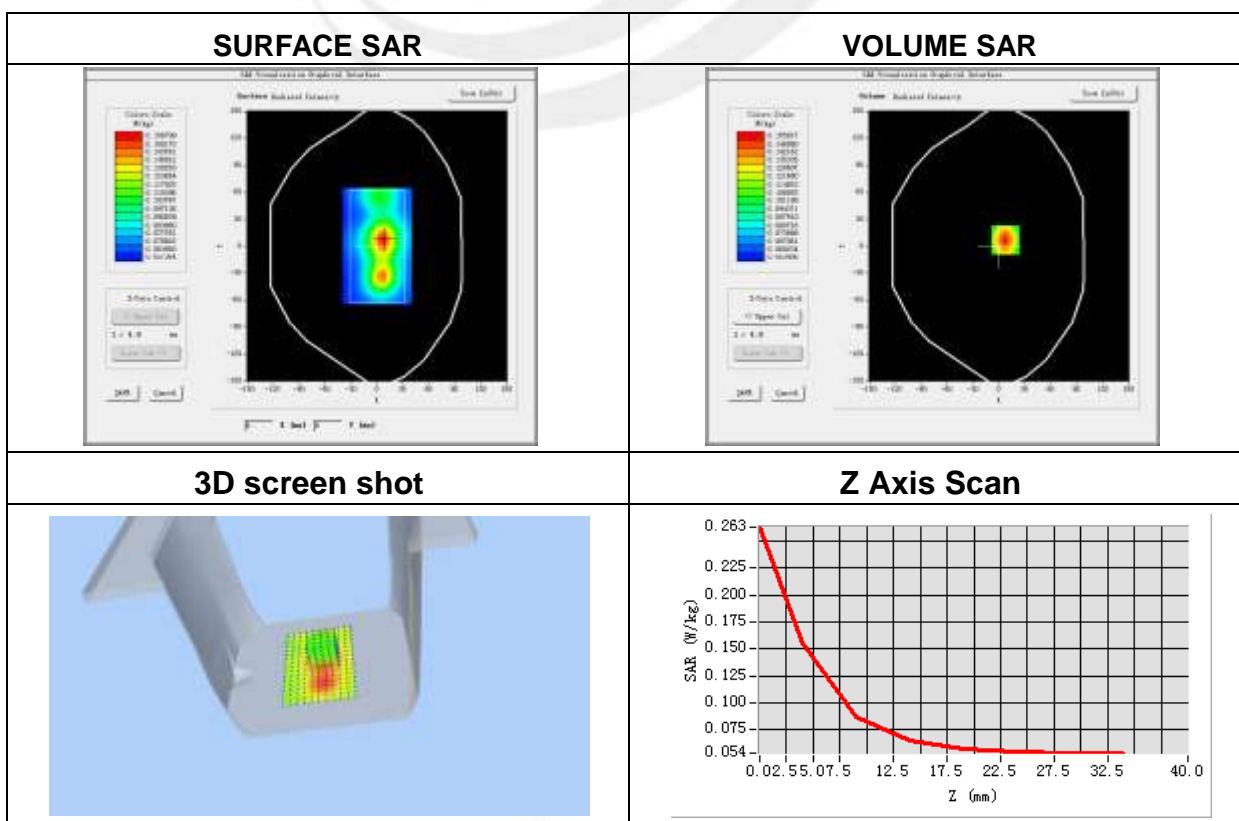
Plot 78: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-0.37

Maximum location: X=7.00, Y=7.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.096902
SAR 1g (W/Kg)	0.154659



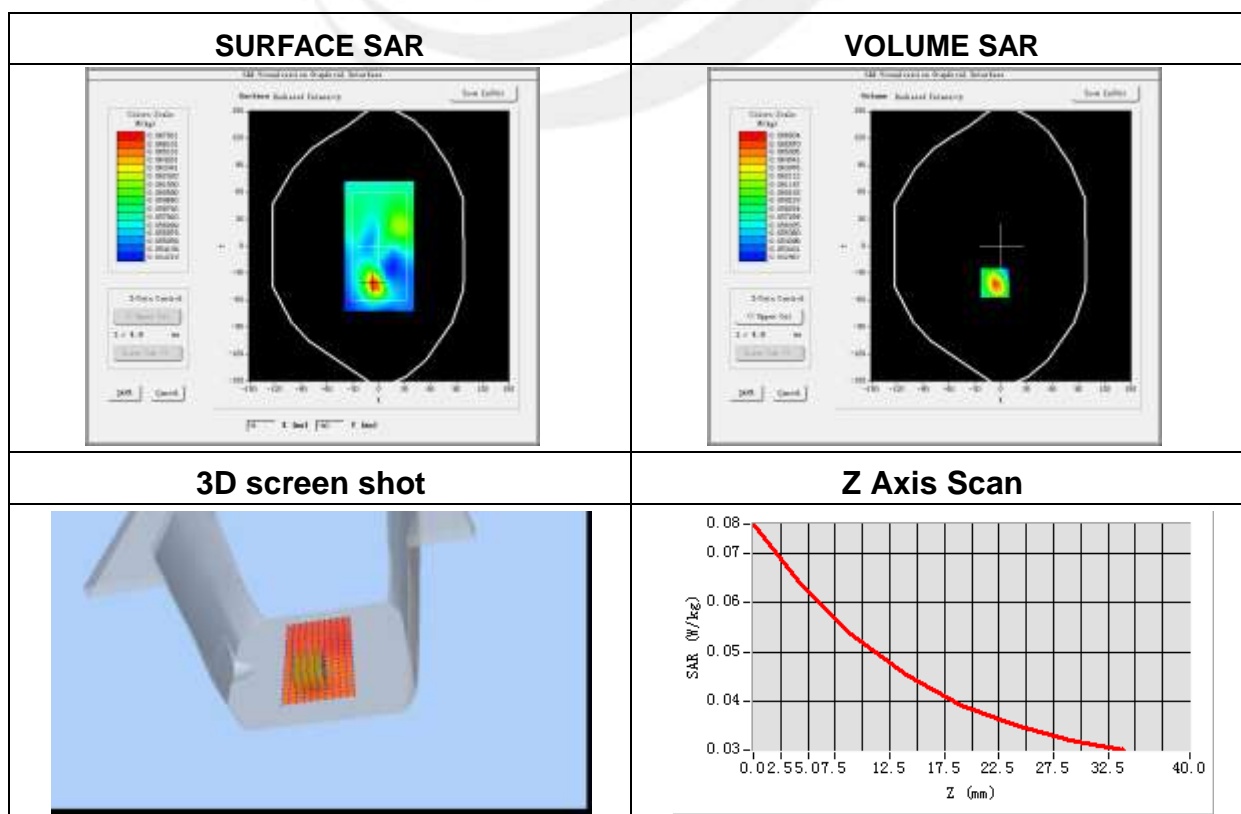
Plot 79: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-2.99

Maximum location: X=5.00, Y=-31.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.051931
SAR 1g (W/Kg)	0.064220



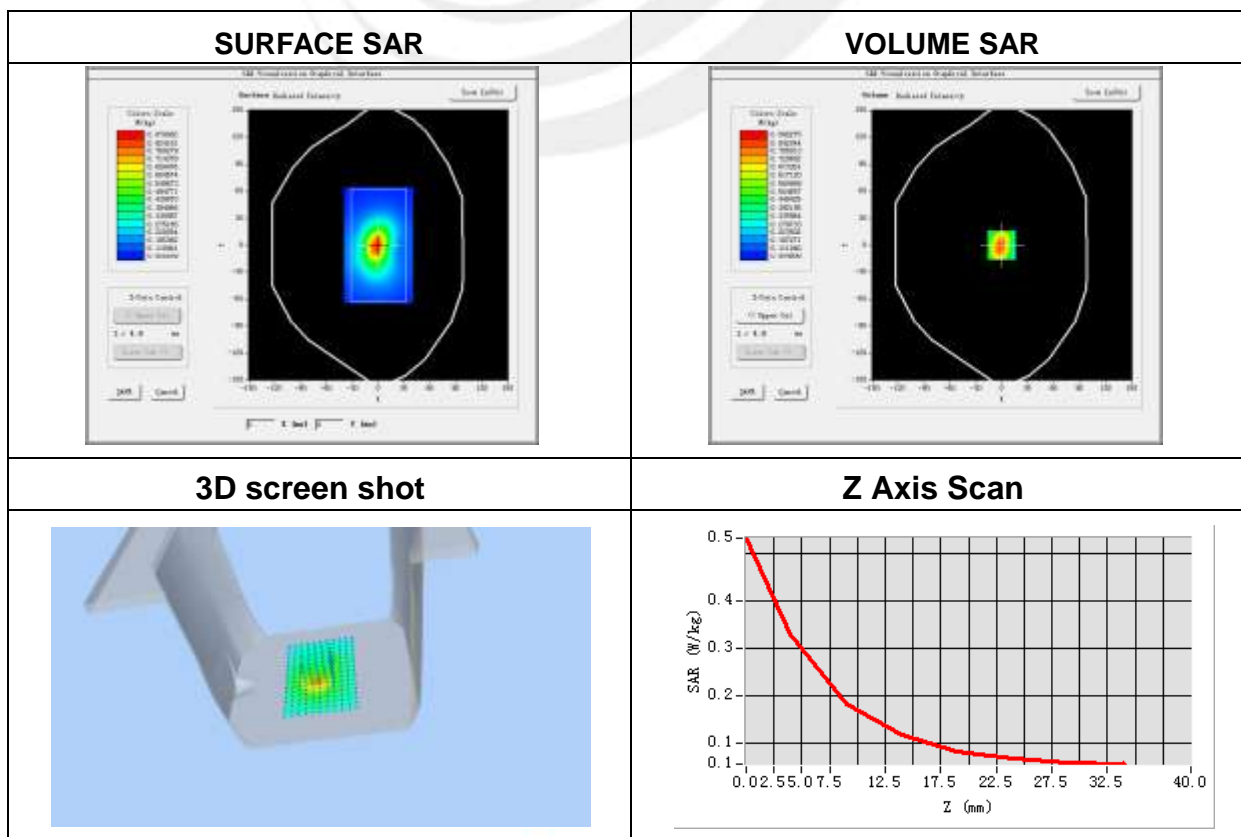
Plot 80: DUT: smart phone; EUT Model: Ilium L200

Test Data	2015-06-08
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	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711.0
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	0.04

Maximum location: X=8.00, Y=-18.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.037711
SAR 1g (W/Kg)	0.044636





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※

