



## **Annex B: Measurement Results**

**Tested Model : Sun\_S5501**

**Report Number:  
FCC17070749A-SAR**

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 21/6/2017

Measurement duration: 10 minutes 10 seconds

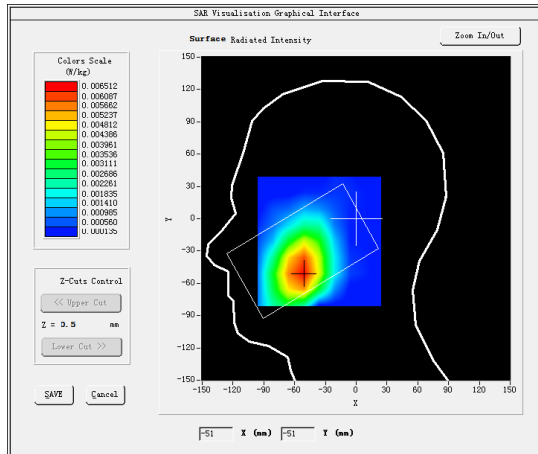
### **A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<b><u>Phantom</u></b>	<u>Right head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>CUSTOM (GPRS850 4Tx)</u>
<b><u>Channels</u></b>	<u>High</u>
<b><u>Signal</u></b>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<b><u>Conversion factor</u></b>	<u>4.93</u>

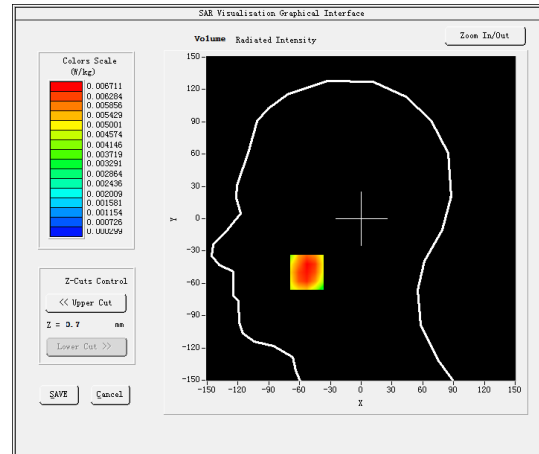
### **B. SAR Measurement Results**

<b>Frequency (MHz)</b>	848.799988
<b>Relative permittivity (real part)</b>	40.053120
<b>Relative permittivity (imaginary part)</b>	19.917360
<b>Conductivity (S/m)</b>	0.939214
<b>Variation (%)</b>	1.310000

## SURFACE SAR



## VOLUME SAR

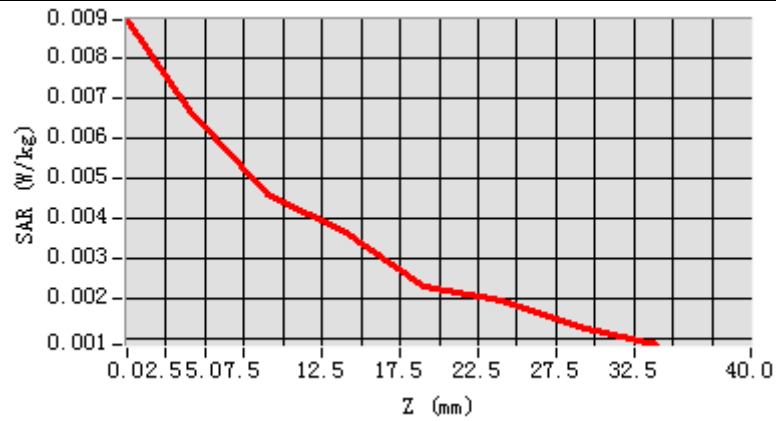


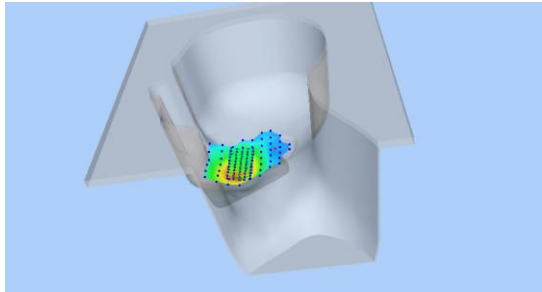
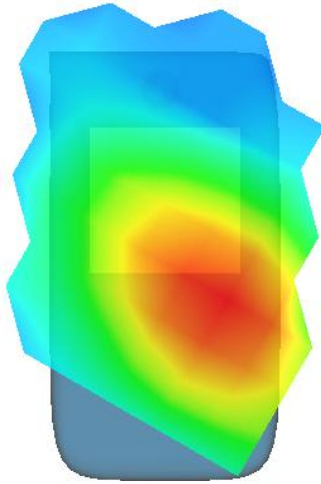
**Maximum location: X=-53.00, Y=-50.00**

**SAR Peak: 0.01 W/kg**

<b>SAR 10g (W/Kg)</b>	0.004538
<b>SAR 1g (W/Kg)</b>	0.006564

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0089	0.0067	0.0046	0.0036	0.0023	0.0020	0.0013



3D screen shot	Hot spot position
	

## MEASUREMENT 2

### Front-side-high

Type: Phone measurement (Complete)

Date of measurement: 21/6/2017

Measurement duration: 6 minutes 58 seconds

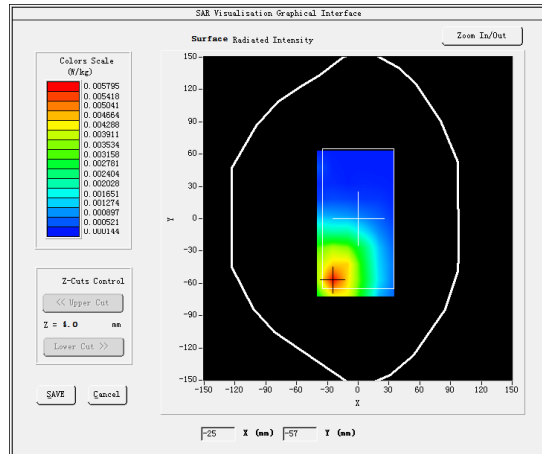
### A. Experimental conditions.

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Body</u>
<b><u>Band</u></b>	<u>CUSTOM (GPRS850 4Tx)</u>
<b><u>Channels</u></b>	<u>High</u>
<b><u>Signal</u></b>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<b><u>Conversion factor</u></b>	<u>5.07</u>

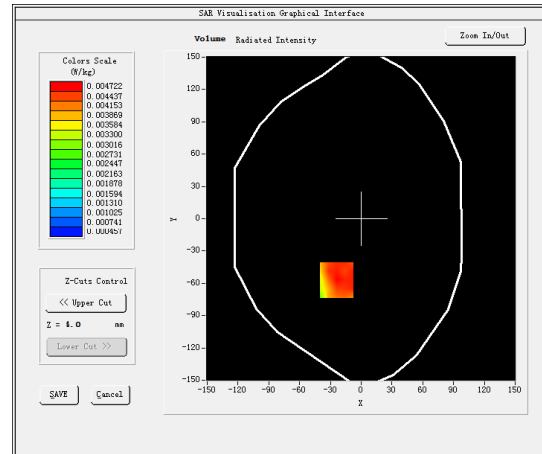
### B. SAR Measurement Results

<b>Frequency (MHz)</b>	848.799988
<b>Relative permittivity (real part)</b>	53.755020
<b>Relative permittivity (imaginary part)</b>	21.411160
<b>Conductivity (S/m)</b>	1.009655
<b>Variation (%)</b>	-3.280000

## SURFACE SAR



## VOLUME SAR

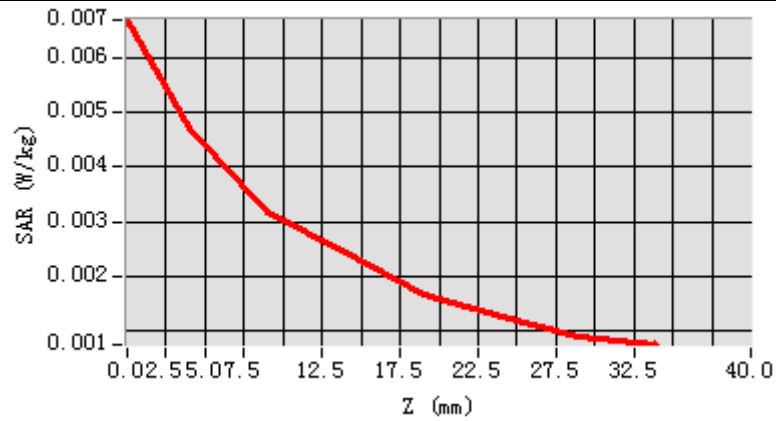


**Maximum location: X=-24.00, Y=-57.00**

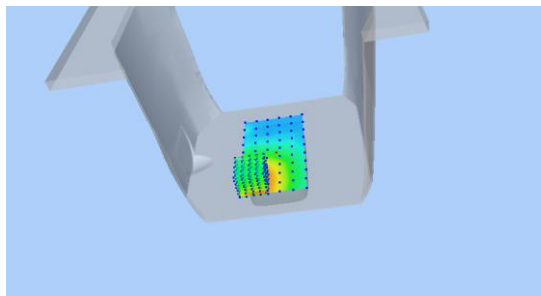
**SAR Peak: 0.01 W/kg**

<b>SAR 10g (W/Kg)</b>	0.003231
<b>SAR 1g (W/Kg)</b>	0.004728

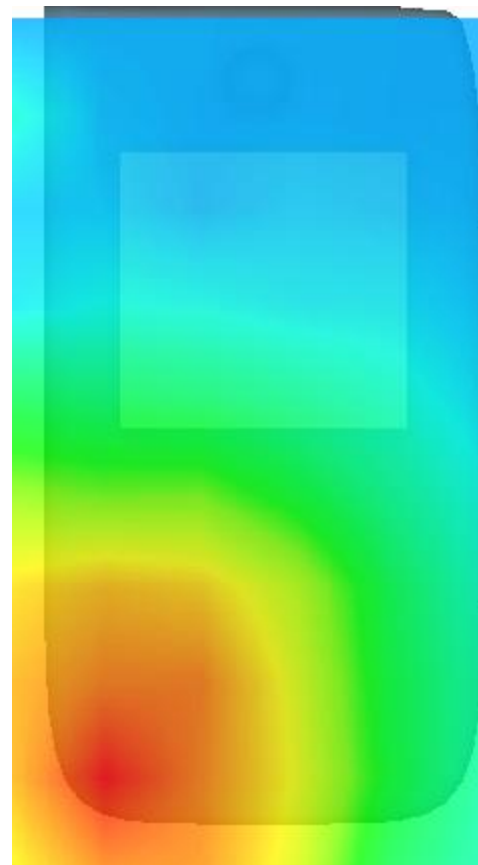
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0067	0.0047	0.0032	0.0025	0.0017	0.0013	0.0009



**3D screen shot**



**Hot spot position**



## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 28/6/2017

Measurement duration: 10 minutes 9 seconds

### A. Experimental conditions.

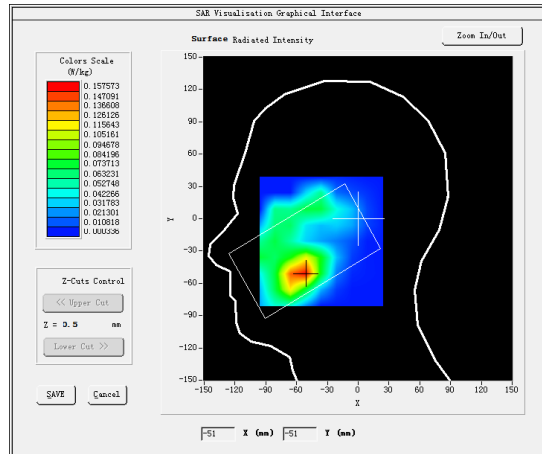
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<b><u>Phantom</u></b>	<u>Right head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>CUSTOM (GPRS1900 4Tx)</u>
<b><u>Channels</u></b>	<u>Low</u>
<b><u>Signal</u></b>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<b><u>Conversion factor</u></b>	<u>4.63</u>

### B. SAR Measurement Results

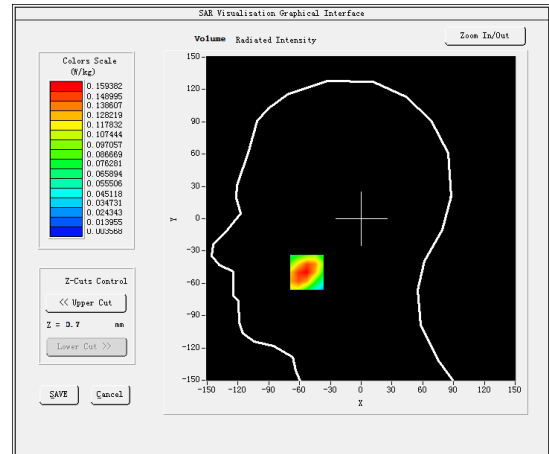
<b>Frequency (MHz)</b>	1850.199951
<b>Relative permittivity (real part)</b>	39.923779
<b>Relative permittivity (imaginary part)</b>	13.336920
<b>Conductivity (S/m)</b>	1.370887
<b>Variation (%)</b>	-0.690000



## SURFACE SAR



## VOLUME SAR

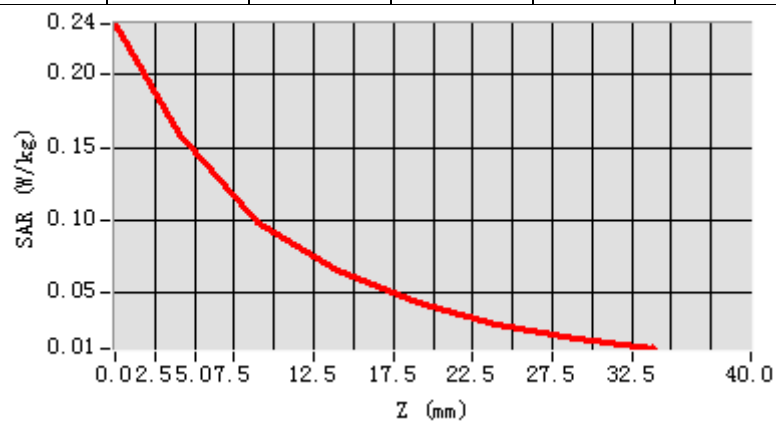


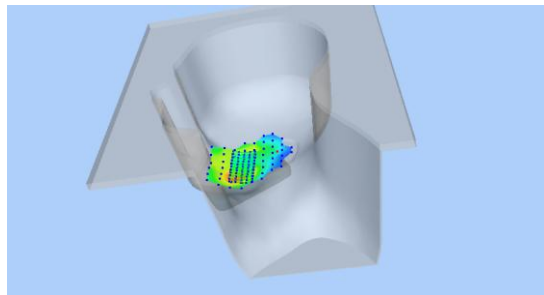
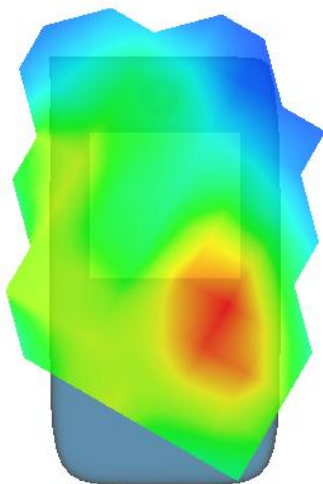
**Maximum location: X=-53.00, Y=-50.00**

**SAR Peak: 0.24 W/kg**

<b>SAR 10g (W/Kg)</b>	0.090026
<b>SAR 1g (W/Kg)</b>	0.153104

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2351	0.2394	0.1982	0.1649	0.1429	0.1270	0.1187



3D screen shot	Hot spot position
	

## MEASUREMENT 4

### Front-side-low

Type: Phone measurement (Complete)

Date of measurement: 28/6/2017

Measurement duration: 11 minutes 25 seconds

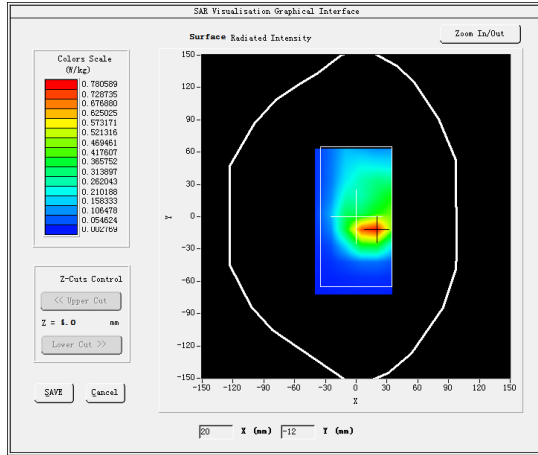
### A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

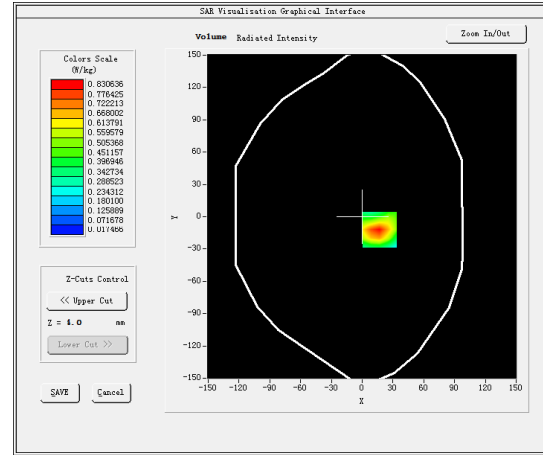
### B. SAR Measurement Results

<b>Frequency (MHz)</b>	1850.199951
<b>Relative permittivity (real part)</b>	53.232899
<b>Relative permittivity (imaginary part)</b>	14.493960
<b>Conductivity (S/m)</b>	1.489818
<b>Variation (%)</b>	-2.080000

## SURFACE SAR



## VOLUME SAR

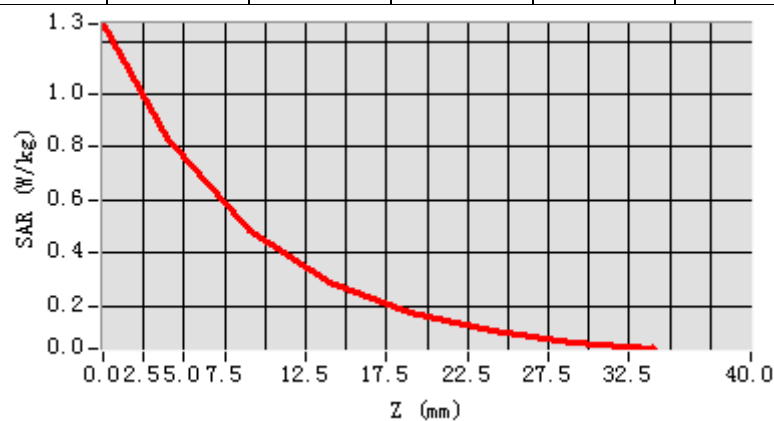


**Maximum location: X=17.00, Y=-12.00**

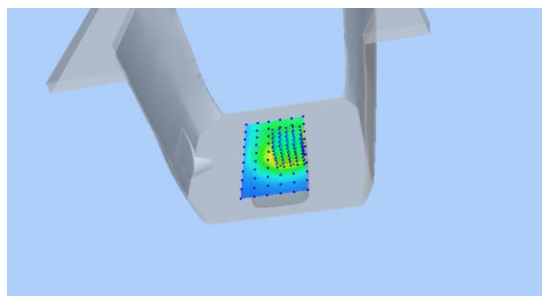
**SAR Peak: 1.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.416514
<b>SAR 1g (W/Kg)</b>	0.765651

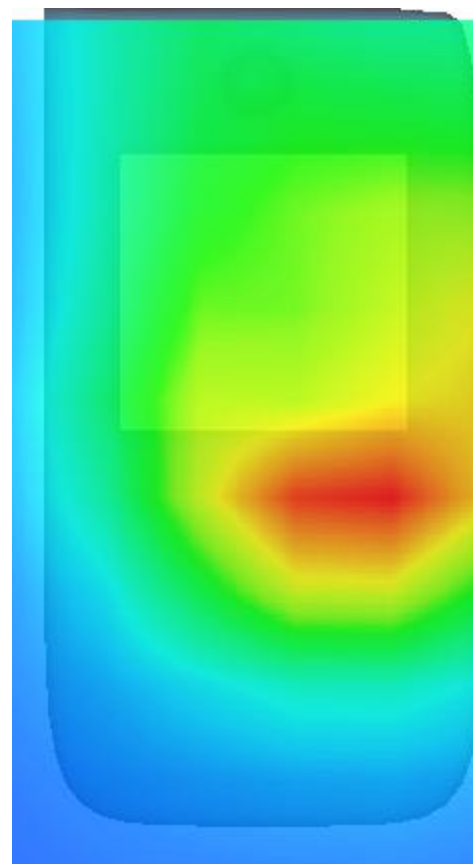
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2669	0.8306	0.4840	0.2895	0.1753	0.1052	0.0623



**3D screen shot**



**Hot spot position**



## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 28/6/2017

Measurement duration: 9 minutes 19 seconds

### **A. Experimental conditions.**

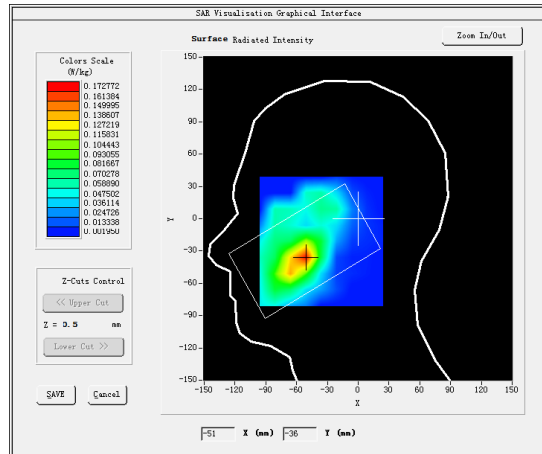
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<b><u>Phantom</u></b>	<u>Left head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>Band2 WCDMA1900</u>
<b><u>Channels</u></b>	<u>Low</u>
<b><u>Signal</u></b>	<u>Duty cycle:1:1</u>
<b><u>Conversion factor</u></b>	<u>4.78</u>

### **B. SAR Measurement Results**

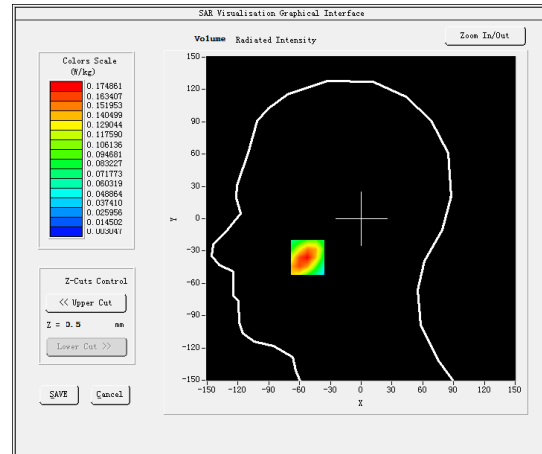
Lower Band SAR (Channel 9262):

<b>Frequency (MHz)</b>	1852.400024
<b>Relative permittivity (real part)</b>	39.843739
<b>Relative permittivity (imaginary part)</b>	13.323660
<b>Conductivity (S/m)</b>	1.371153
<b>Variation (%)</b>	0.610000

## SURFACE SAR



## VOLUME SAR

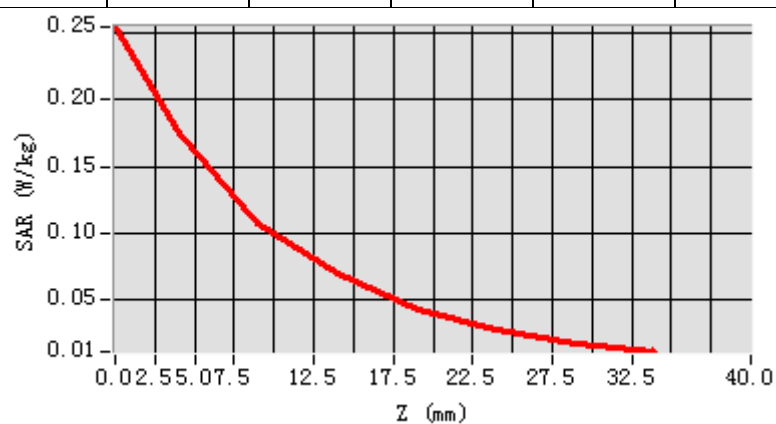


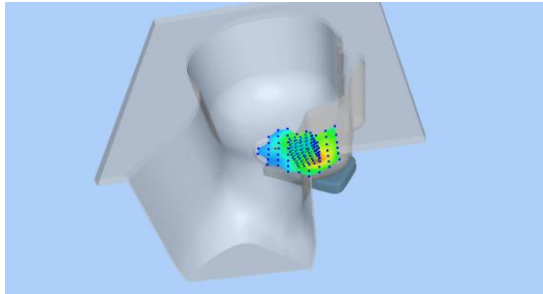
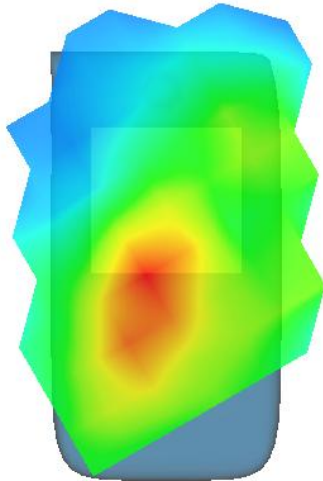
**Maximum location: X=-52.00, Y=-36.00**

**SAR Peak: 0.25 W/kg**

<b>SAR 10g (W/Kg)</b>	0.096826
<b>SAR 1g (W/Kg)</b>	0.166363

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2545	0.1749	0.1079	0.0698	0.0432	0.0275	0.0179



3D screen shot	Hot spot position
	



## MEASUREMENT 6

Front-side-low

Type: Phone measurement (Complete)

Date of measurement: 28/6/2017

Measurement duration: 10 minutes 33 seconds

### **A. Experimental conditions.**

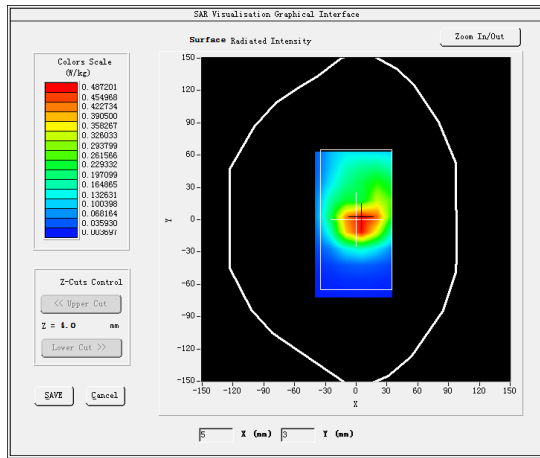
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Body</u>
<b><u>Band</u></b>	<u>Band2 WCDMA1900</u>
<b><u>Channels</u></b>	<u>Low</u>
<b><u>Signal</u></b>	<u>Duty cycle:1:1</u>
<b><u>Conversion factor</u></b>	<u>4.63</u>

### **B. SAR Measurement Results**

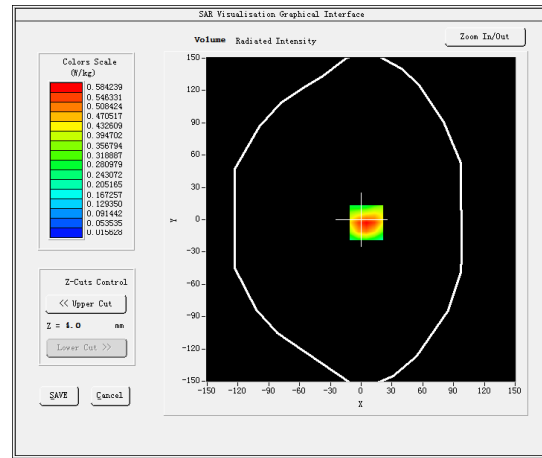
Lower Band SAR (Channel 9262):

<b>Frequency (MHz)</b>	1852.400024
<b>Relative permittivity (real part)</b>	53.256340
<b>Relative permittivity (imaginary part)</b>	14.499960
<b>Conductivity (S/m)</b>	1.492207
<b>Variation (%)</b>	1.320000

## SURFACE SAR



## VOLUME SAR

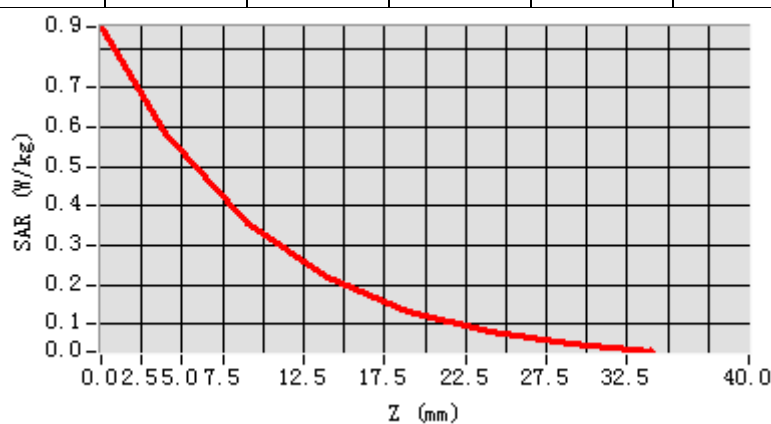


**Maximum location: X=5.00, Y=-3.00**

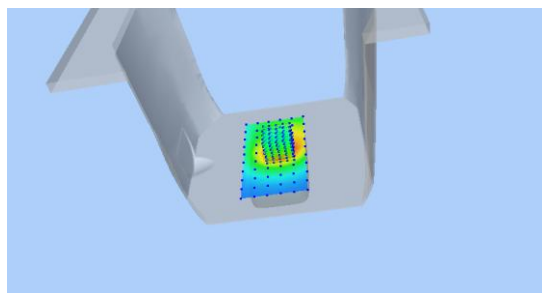
**SAR Peak: 0.85 W/kg**

<b>SAR 10g (W/Kg)</b>	0.315004
<b>SAR 1g (W/Kg)</b>	0.551276

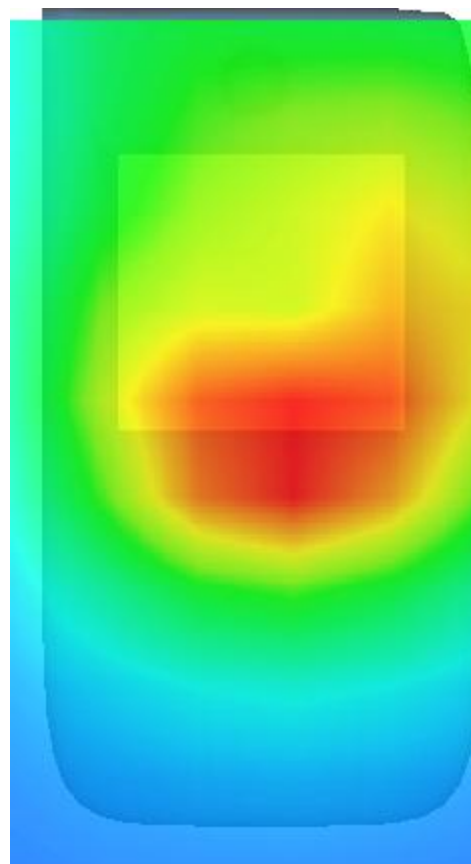
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8552	0.5842	0.3567	0.2197	0.1340	0.0822	0.0505



**3D screen shot**



**Hot spot position**



## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 21/6/2017

Measurement duration: 8 minutes 12 seconds

### A. Experimental conditions.

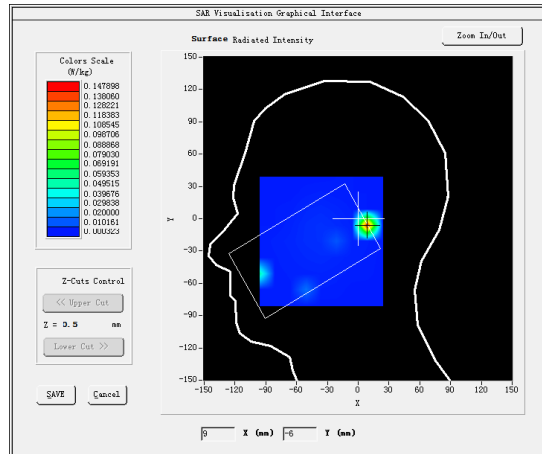
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Left head</u>
<b><u>Device Position</u></b>	<u>Tilt</u>
<b><u>Band</u></b>	<u>Band5 WCDMA850</u>
<b><u>Channels</u></b>	<u>High</u>
<b><u>Signal</u></b>	<u>Duty cycle:1:1</u>
<b><u>Conversion factor</u></b>	<u>4.93</u>

### B. SAR Measurement Results

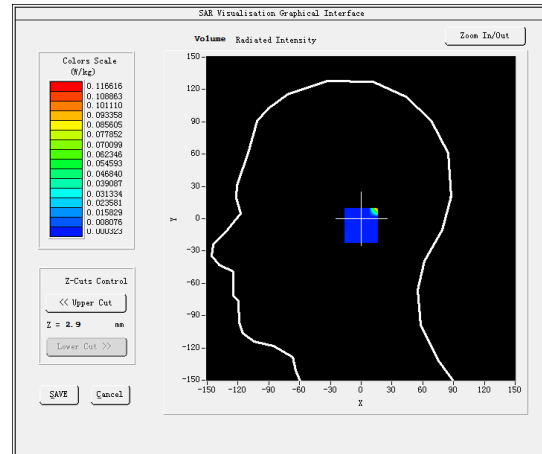
Higher Band SAR (Channel 4233):

<b>Frequency (MHz)</b>	846.600000
<b>Relative permittivity (real part)</b>	40.055901
<b>Relative permittivity (imaginary part)</b>	19.702999
<b>Conductivity (S/m)</b>	0.998285
<b>Variation (%)</b>	2.750000

## SURFACE SAR



## VOLUME SAR

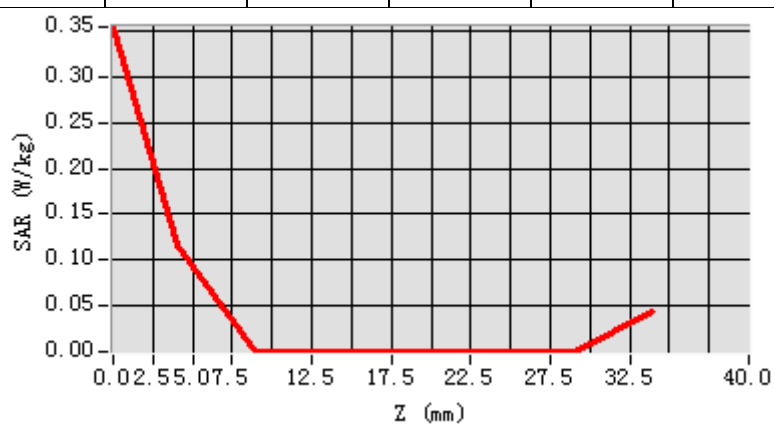


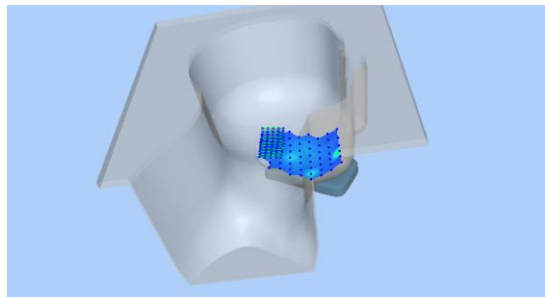
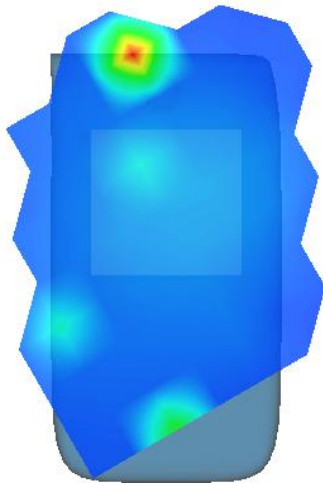
**Maximum location: X=9.00, Y=-6.00**

**SAR Peak: 0.33 W/kg**

<b>SAR 10g (W/Kg)</b>	0.084078
<b>SAR 1g (W/Kg)</b>	0.143772

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3541	0.1166	0.0011	0.0003	0.0008	0.0003	0.0006



3D screen shot	Hot spot position
	

## MEASUREMENT 8

Rear-side-high

Type: Phone measurement (Complete)

Date of measurement: 21/6/2017

Measurement duration: 7 minutes 0 seconds

### **A. Experimental conditions.**

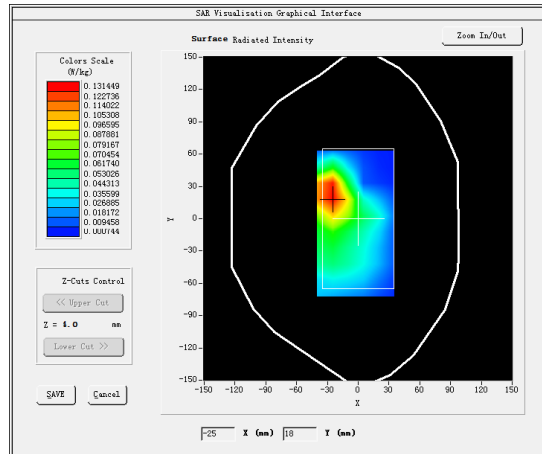
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Body</u>
<b><u>Band</u></b>	<u>Band5 WCDMA850</u>
<b><u>Channels</u></b>	<u>High</u>
<b><u>Signal</u></b>	<u>Duty cycle:1:1</u>
<b><u>Conversion factor</u></b>	<u>5.07</u>

### **B. SAR Measurement Results**

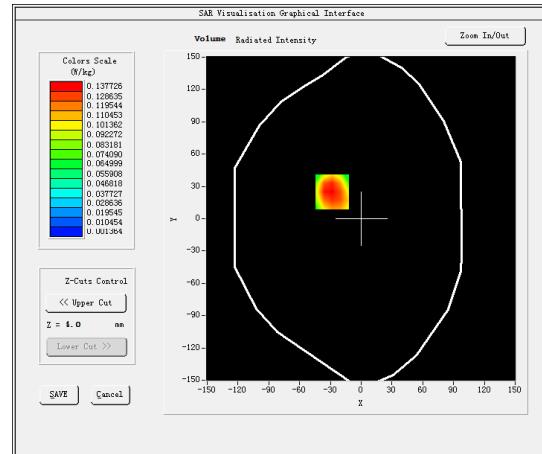
Higher Band SAR (Channel 4233):

<b>Frequency (MHz)</b>	846.600000
<b>Relative permittivity (real part)</b>	55.000000
<b>Relative permittivity (imaginary part)</b>	20.879999
<b>Conductivity (S/m)</b>	1.057920
<b>Variation (%)</b>	3.410000

## SURFACE SAR



## VOLUME SAR



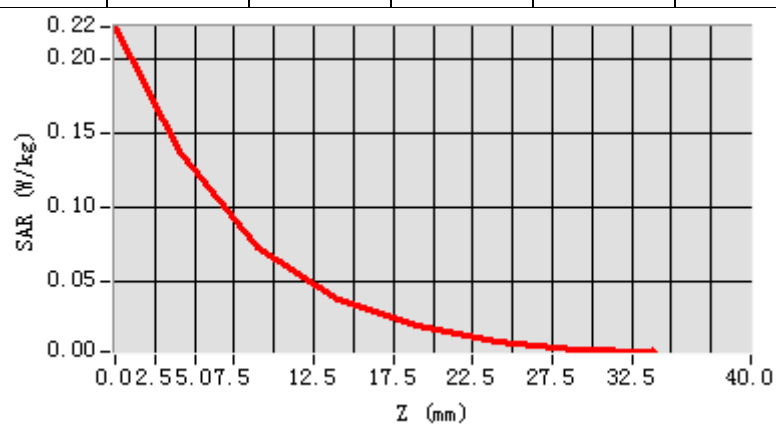
**Maximum location: X=-28.00, Y=25.00**

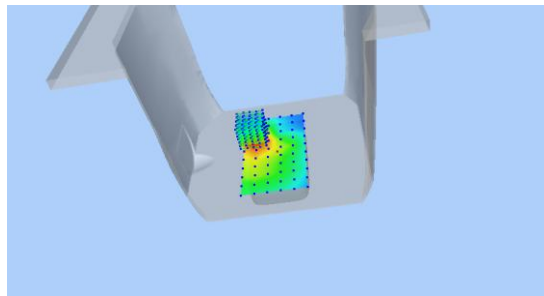
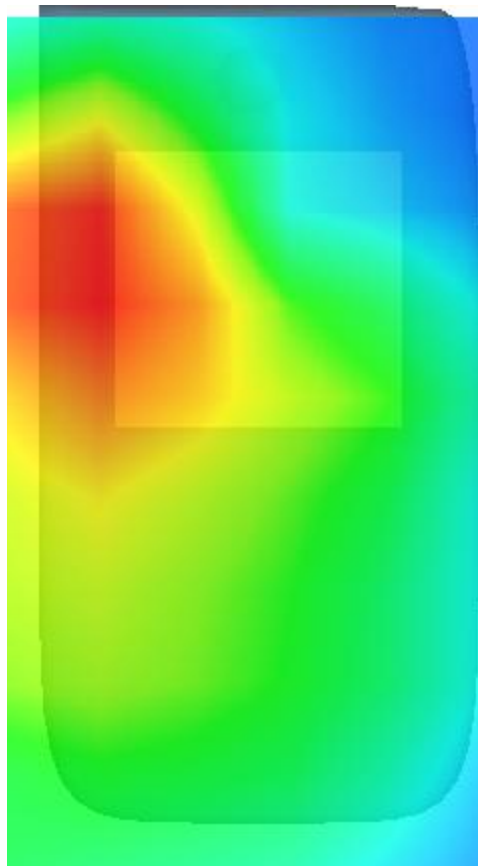
**SAR Peak: 0.23 W/kg**

<b>SAR 10g (W/Kg)</b>	0.072595
<b>SAR 1g (W/Kg)</b>	0.136902



Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2210	0.1377	0.0731	0.0385	0.0198	0.0098	0.0047



3D screen shot	Hot spot position
	

## MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 10/7/2017

Measurement duration: 12 minutes 41 seconds

### **A. Experimental conditions.**

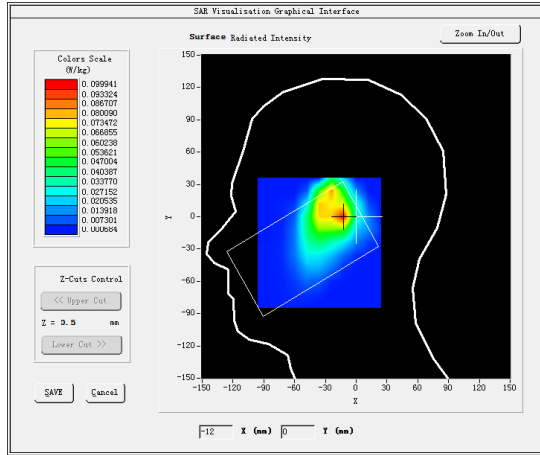
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>7x7x7,dx=5mm dy=5mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Right head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>IEEE 802.11b ISM</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>Duty cycle:1:1</u>
<b><u>Conversion factor</u></b>	<u>4.11</u>

### **B. SAR Measurement Results**

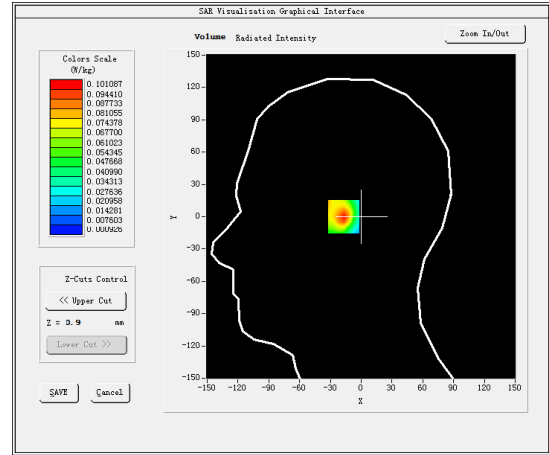
Middle Band SAR (Channel 6):

<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	38.568100
<b>Relative permittivity (imaginary part)</b>	13.379800
<b>Conductivity (S/m)</b>	1.815193
<b>Variation (%)</b>	-0.220000

## SURFACE SAR



## VOLUME SAR

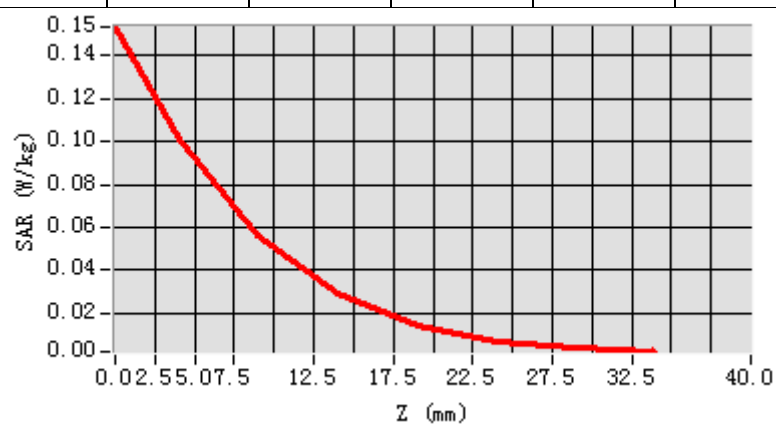


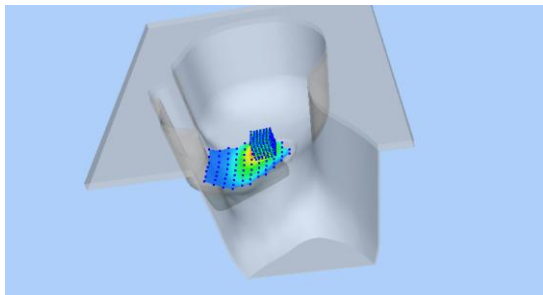
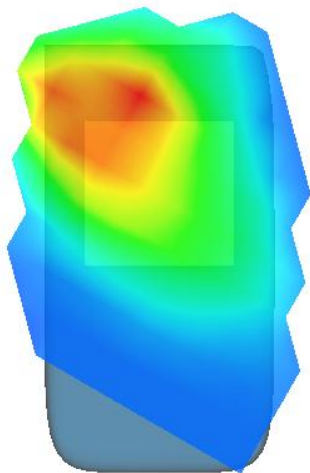
**Maximum location: X=-14.00, Y=0.00**

**SAR Peak: 0.15 W/kg**

<b>SAR 10g (W/Kg)</b>	0.046579
<b>SAR 1g (W/Kg)</b>	0.091101

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1535	0.1011	0.0566	0.0289	0.0141	0.0070	0.0034



3D screen shot	Hot spot position
	

## MEASUREMENT 10

### Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 10/7/2017

Measurement duration: 13 minutes 37 seconds

#### **A. Experimental conditions.**

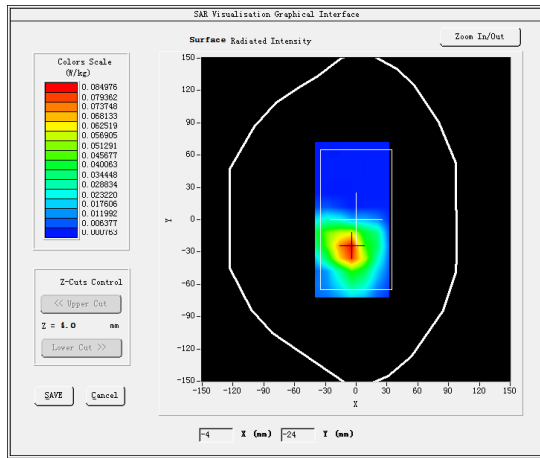
<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>7x7x7,dx=5mm dy=5mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Body</u>
<b><u>Band</u></b>	<u>IEEE 802.11b ISM</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>Duty cycle:1:1</u>
<b><u>Conversion factor</u></b>	<u>4.0</u>

#### **B. SAR Measurement Results**

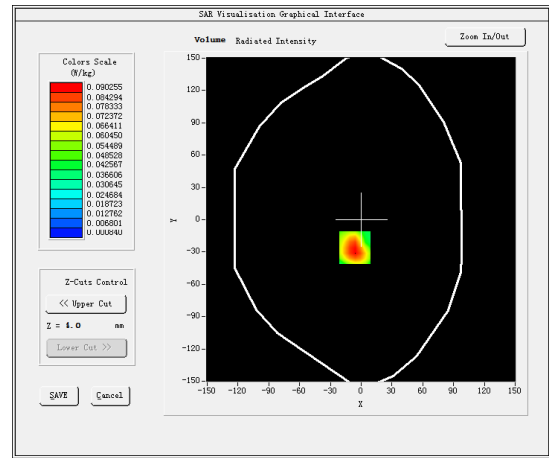
Middle Band SAR (Channel 6):

<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	52.756401
<b>Relative permittivity (imaginary part)</b>	14.076200
<b>Conductivity (S/m)</b>	1.909671
<b>Variation (%)</b>	-1.780000

## SURFACE SAR



## VOLUME SAR

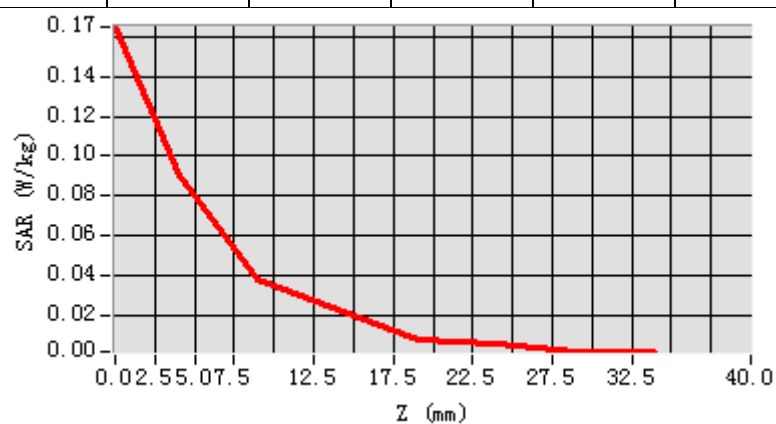


**Maximum location: X=-6.00, Y=-26.00**

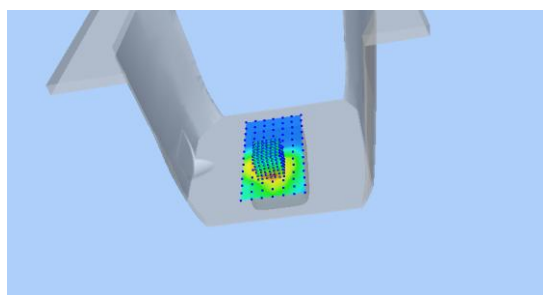
**SAR Peak: 0.15 W/kg**

<b>SAR 10g (W/Kg)</b>	0.043256
<b>SAR 1g (W/Kg)</b>	0.085450

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1651	0.0903	0.0377	0.0227	0.0073	0.0055	0.0014



**3D screen shot**



**Hot spot position**

