

**Annex B: Measurement Results****Project Name : T472****Report Number:
FCC16073812-4****I. RESULTS**

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
Phone	GSM850	<u>Measurement 1</u> : Right Head with Cheek device position on Middle Channel in GSM mode
Phone	GSM850	<u>Measurement 2</u> : Right Head with Tilt device position on Middle Channel in GSM mode
Phone	GSM850	<u>Measurement 3</u> : Left Head with Cheek device position on Low Channel in GSM mode
Phone	GSM850	<u>Measurement 4</u> : Left Head with Cheek device position on Middle Channel in GSM mode
Phone	GSM850	<u>Measurement 5</u> : Left Head with Cheek device position on High Channel in GSM mode
Phone	GSM850	<u>Measurement 6</u> : Left Head with Tilt device position on Middle Channel in GSM mode
Phone	GSM850	<u>Measurement 7</u> : Validation Plane with Body device position on Middle Channel in GSM mode
Phone	GSM1900	<u>Measurement 8</u> : Right Head with Cheek device position on Low Channel in GSM mode
Phone	GSM1900	<u>Measurement 9</u> : Right Head with Cheek device position on Middle Channel in GSM mode

Phone	GSM1900	<u>Measurement 10</u> : Right Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	<u>Measurement 11</u> : Right Head with Tilt device position on Middle Channel in GSM mode
Phone	GSM1900	<u>Measurement 12</u> : Left Head with Cheek device position on Middle Channel in GSM mode
Phone	GSM1900	<u>Measurement 13</u> : Left Head with Tilt device position on Middle Channel in GSM mode
Phone	GSM1900	<u>Measurement 14</u> : Validation Plane with Body device position on Low Channel in GSM mode
Phone	CUSTOM	<u>Measurement 15</u> : Validation Plane with Body device position (band GPRS850_4Tx)
Phone	CUSTOM	<u>Measurement 16</u> : Validation Plane with Body device position (band GPRS850_4Tx)
Phone	CUSTOM	<u>Measurement 17</u> : Validation Plane with Body device position (band GPRS850_4Tx)
Phone	CUSTOM	<u>Measurement 18</u> : Validation Plane with Body device position (band GPRS1900_4Tx)
Phone	CUSTOM	<u>Measurement 19</u> : Validation Plane with Body device position (band GPRS1900_4Tx)
Phone	CUSTOM	<u>Measurement 20</u> : Validation Plane with Body device position (band GPRS1900_4Tx)
Phone	CUSTOM	<u>Measurement 21</u> : Validation Plane with Body device position (band GPRS1900_4Tx)
Phone	GSM850	<u>Measurement 22</u> : Left Head with Cheek device position on Middle Channel in GSM mode
Phone	GSM1900	<u>Measurement 23</u> : Right Head with Cheek device position on Middle Channel in GSM mode
Phone	CUSTOM	<u>Measurement 24</u> : Validation Plane with Body device position (band GPRS850_4Tx)
Phone	CUSTOM	<u>Measurement 25</u> : Validation Plane with Body device position (band GPRS850_4Tx)
Phone	CUSTOM	<u>Measurement 26</u> : Validation Plane with Body device position (band GPRS1900_4Tx)

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 8 minutes 58 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

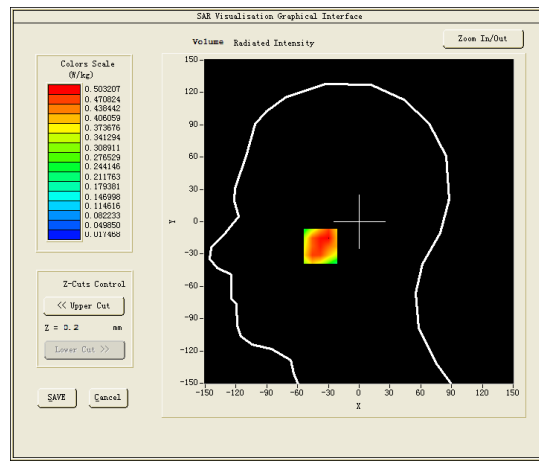
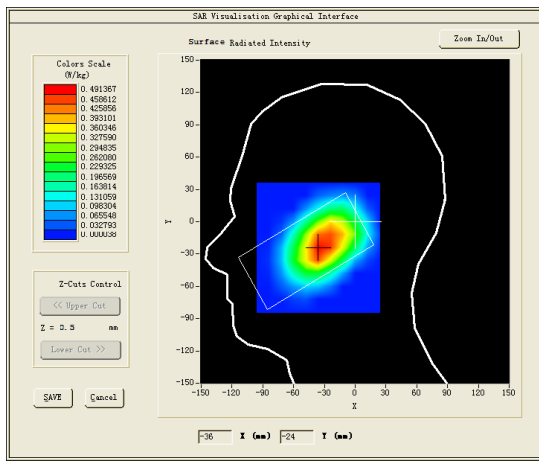
B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	41.517799
Relative permittivity (imaginary part)	19.492121
Conductivity (S/m)	0.905950
Variation (%)	1.200000

SURFACE SAR

VOLUME SAR

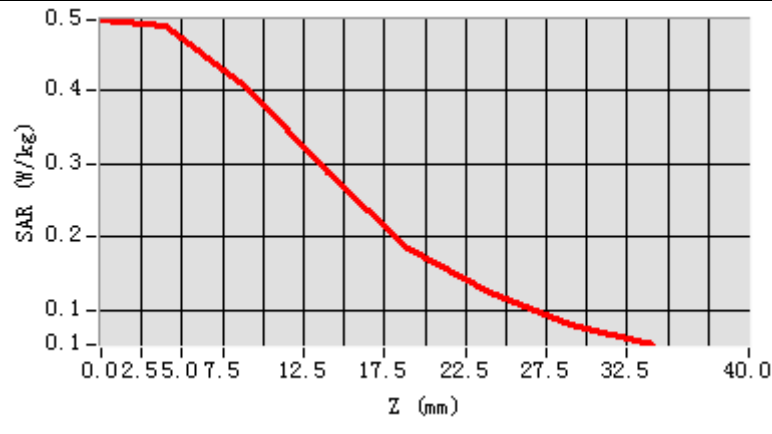


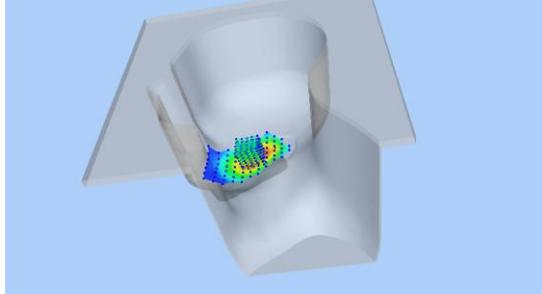
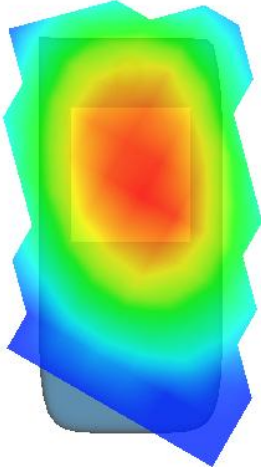
Maximum location: X=-32.00, Y=-23.00

SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.329667
SAR 1g (W/Kg)	0.486949

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4958	0.4881	0.4025	0.2879	0.1843	0.1249	0.0813



3D screen shot	Hot spot position
	

MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 8 minutes 36 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

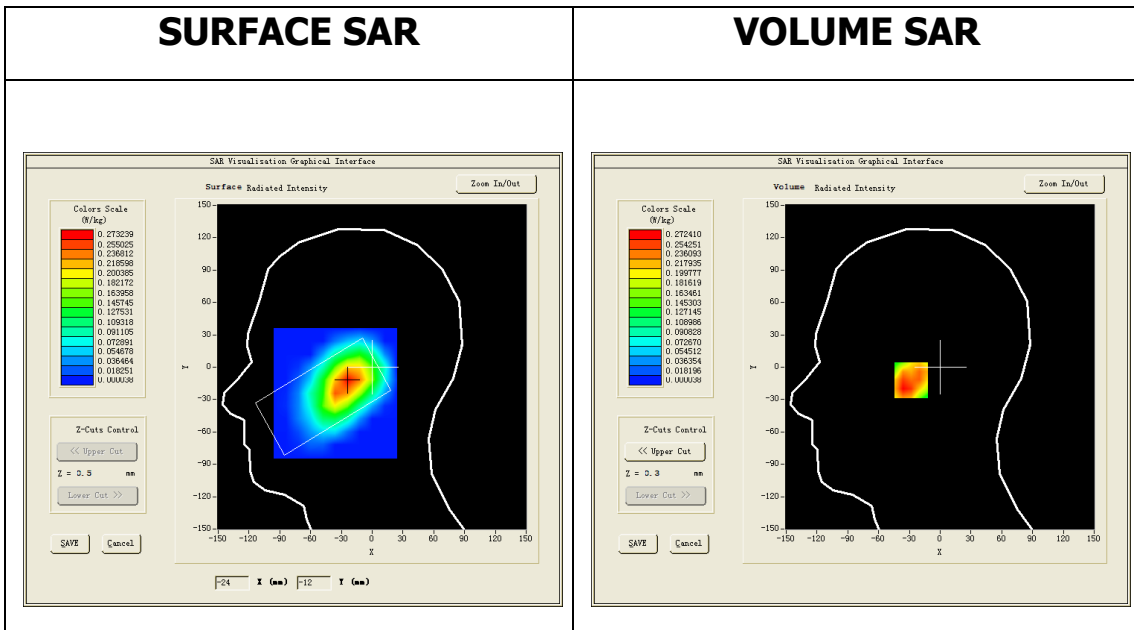
B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	41.517799
Relative permittivity (imaginary part)	19.492121
Conductivity (S/m)	0.905950
Variation (%)	3.170000

SURFACE SAR

VOLUME SAR

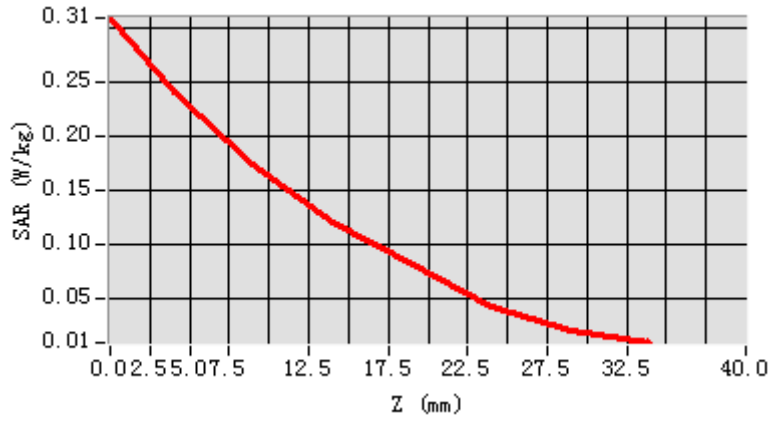


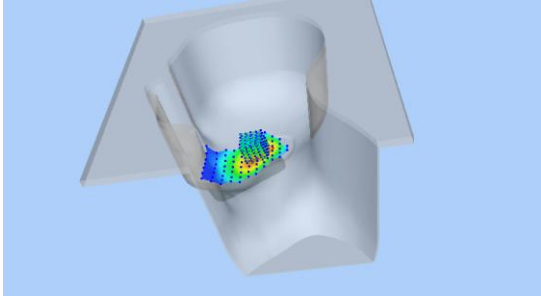
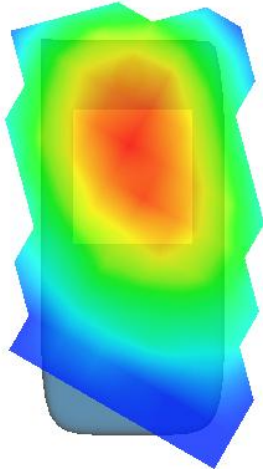
Maximum location: X=-23.00, Y=-12.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.160803
SAR 1g (W/Kg)	0.262456

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3098	0.2404	0.1748	0.1202	0.0819	0.0424	0.0199



3D screen shot	Hot spot position
	

MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 8 minutes 58 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

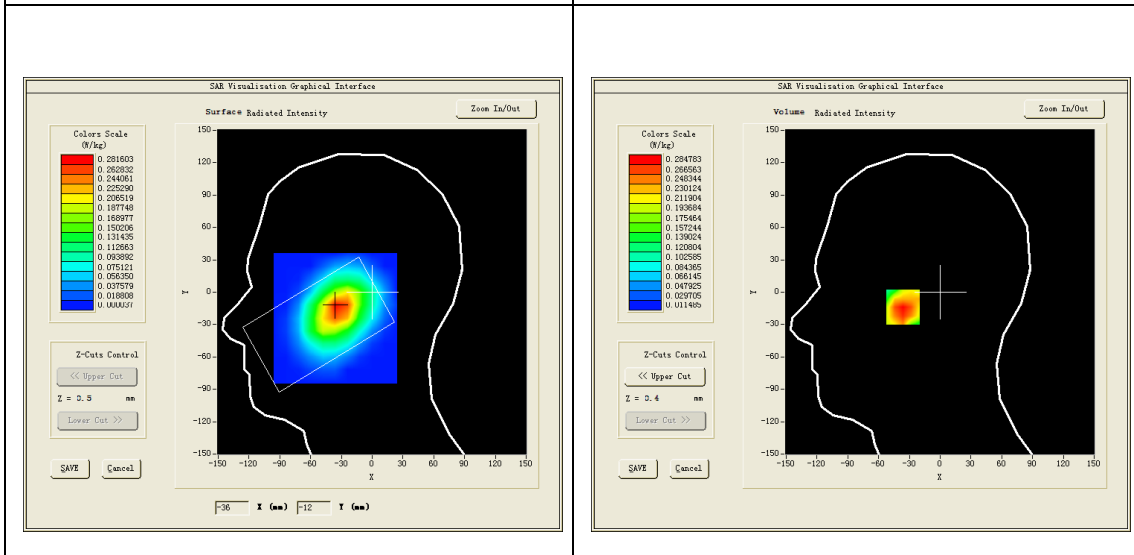
B. SAR Measurement Results

Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.594379
Relative permittivity (imaginary part)	19.357260
Conductivity (S/m)	0.886347
Variation (%)	-0.250000

SURFACE SAR

VOLUME SAR

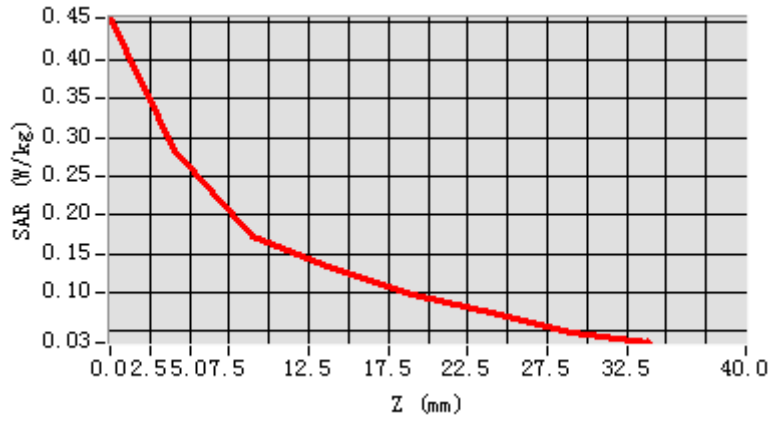


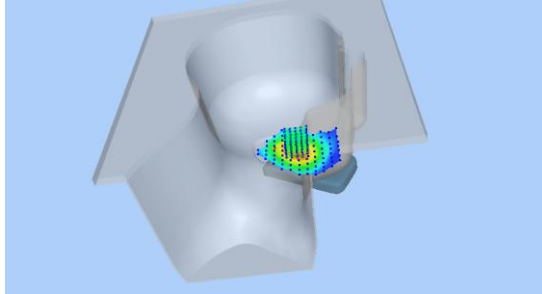
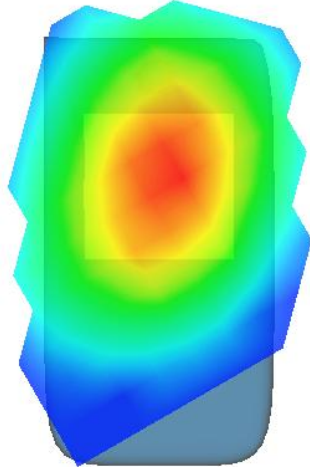
Maximum location: X=-34.00, Y=-14.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.171212
SAR 1g (W/Kg)	0.278926

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4546	0.2848	0.1720	0.1298	0.0970	0.0734	0.0480



3D screen shot	Hot spot position
	

MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 9 minutes 2 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

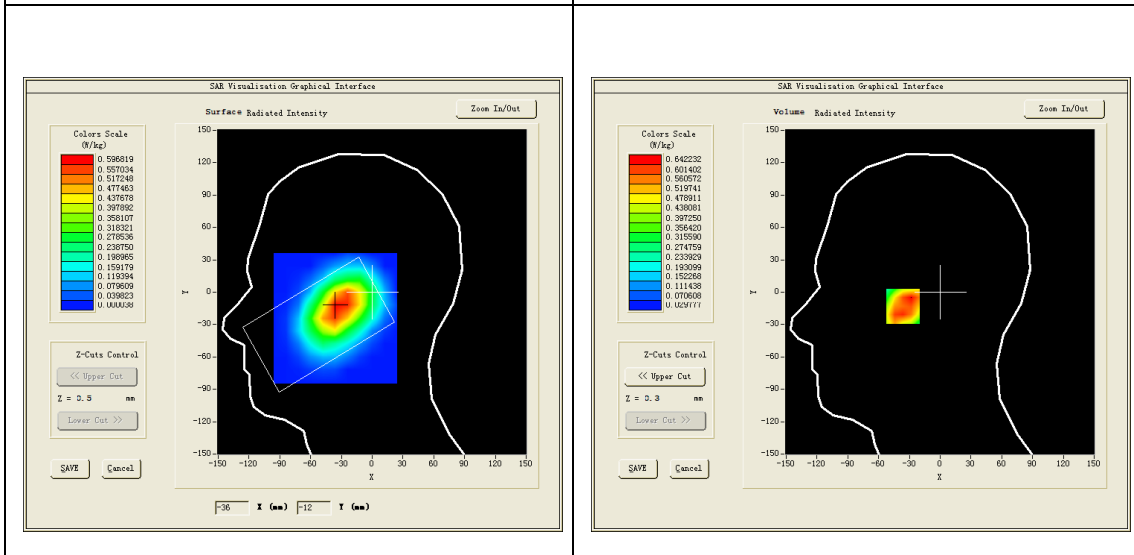
B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	41.517799
Relative permittivity (imaginary part)	19.492121
Conductivity (S/m)	0.905950
Variation (%)	-0.260000

SURFACE SAR

VOLUME SAR

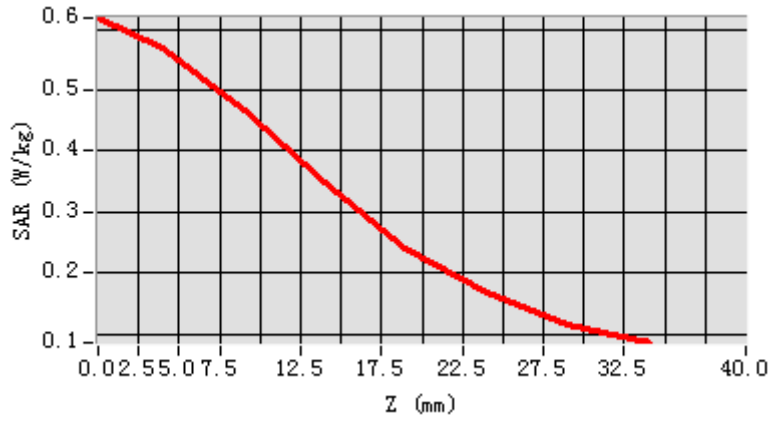


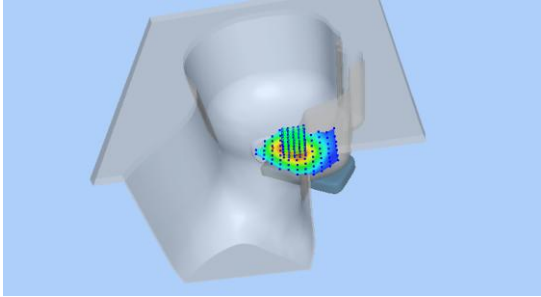
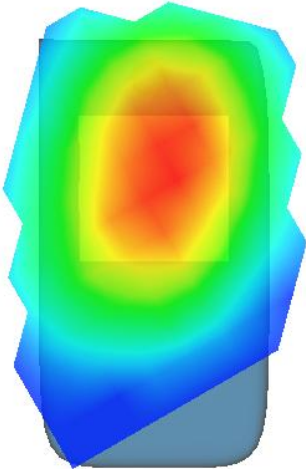
Maximum location: X=-33.00, Y=-13.00

SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.395101
SAR 1g (W/Kg)	0.613601

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6187	0.5708	0.4665	0.3477	0.2406	0.1697	0.1160



3D screen shot	Hot spot position
	

MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 9 minutes 28 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

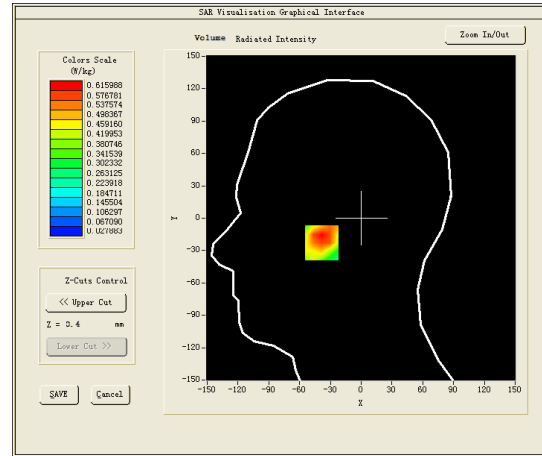
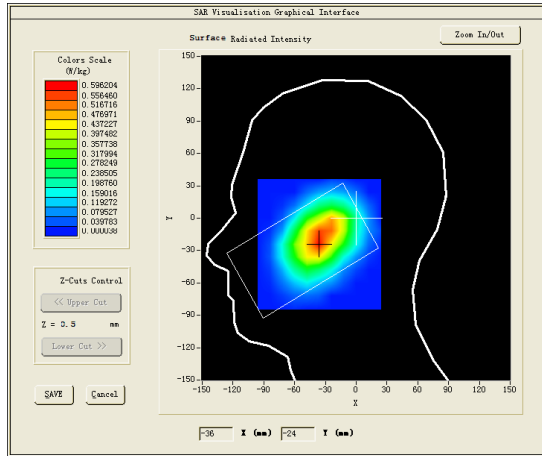
B. SAR Measurement Results

Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.398041
Relative permittivity (imaginary part)	19.569880
Conductivity (S/m)	0.922829
Variation (%)	1.340000

SURFACE SAR

VOLUME SAR

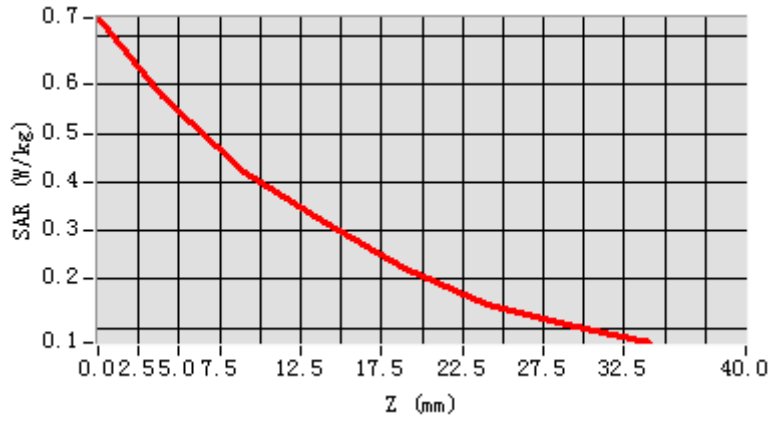


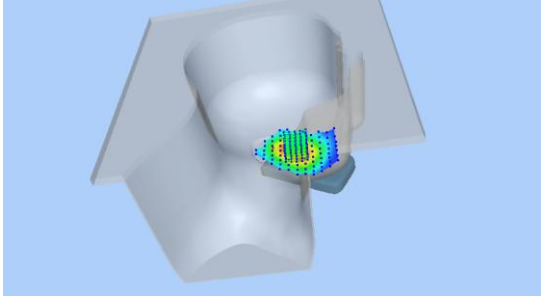
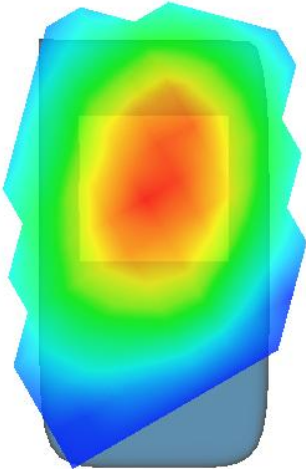
Maximum location: X=-36.00, Y=-23.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.386760
SAR 1g (W/Kg)	0.607555

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7377	0.5770	0.4188	0.3159	0.2214	0.1488	0.1061



3D screen shot	Hot spot position
	

MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 8 minutes 43 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

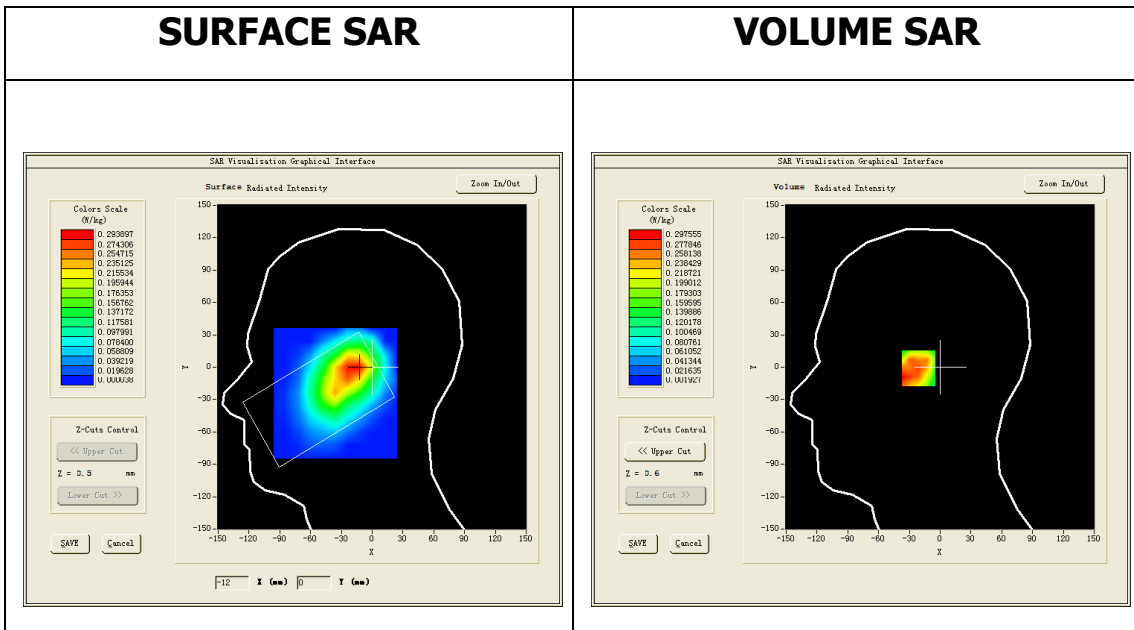
B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	41.517799
Relative permittivity (imaginary part)	19.492121
Conductivity (S/m)	0.905950
Variation (%)	3.620000

SURFACE SAR

VOLUME SAR

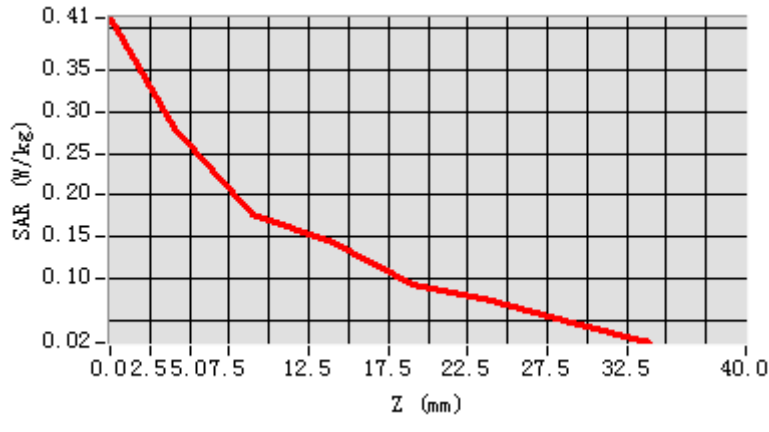


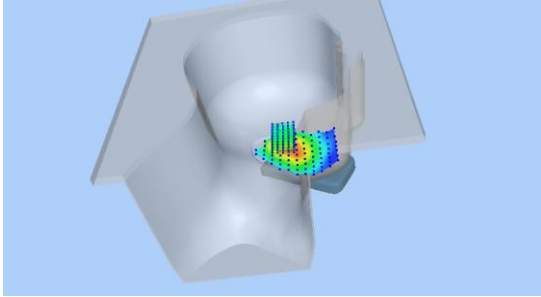
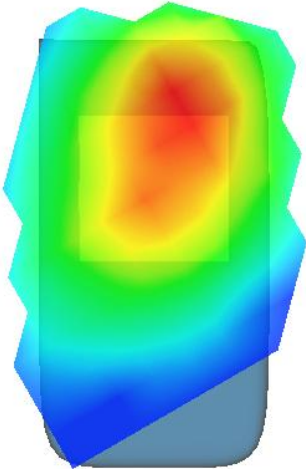
Maximum location: X=-16.00, Y=-1.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.181681
SAR 1g (W/Kg)	0.272026

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4112	0.2809	0.1770	0.1429	0.0928	0.0739	0.0490



3D screen shot	Hot spot position
	

MEASUREMENT 7

Towards-phantom-with-headset-middle

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 10 minutes 39 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>5.07</u>

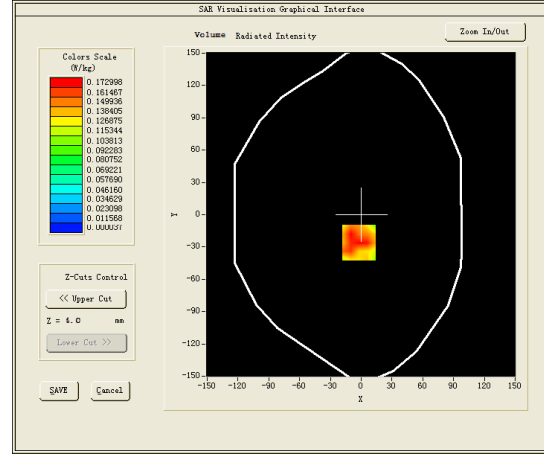
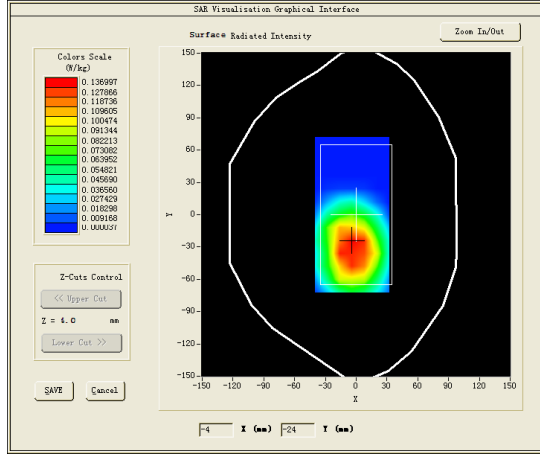
B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.267799
Relative permittivity (imaginary part)	20.892120
Conductivity (S/m)	0.971019
Variation (%)	1.820000

SURFACE SAR

VOLUME SAR

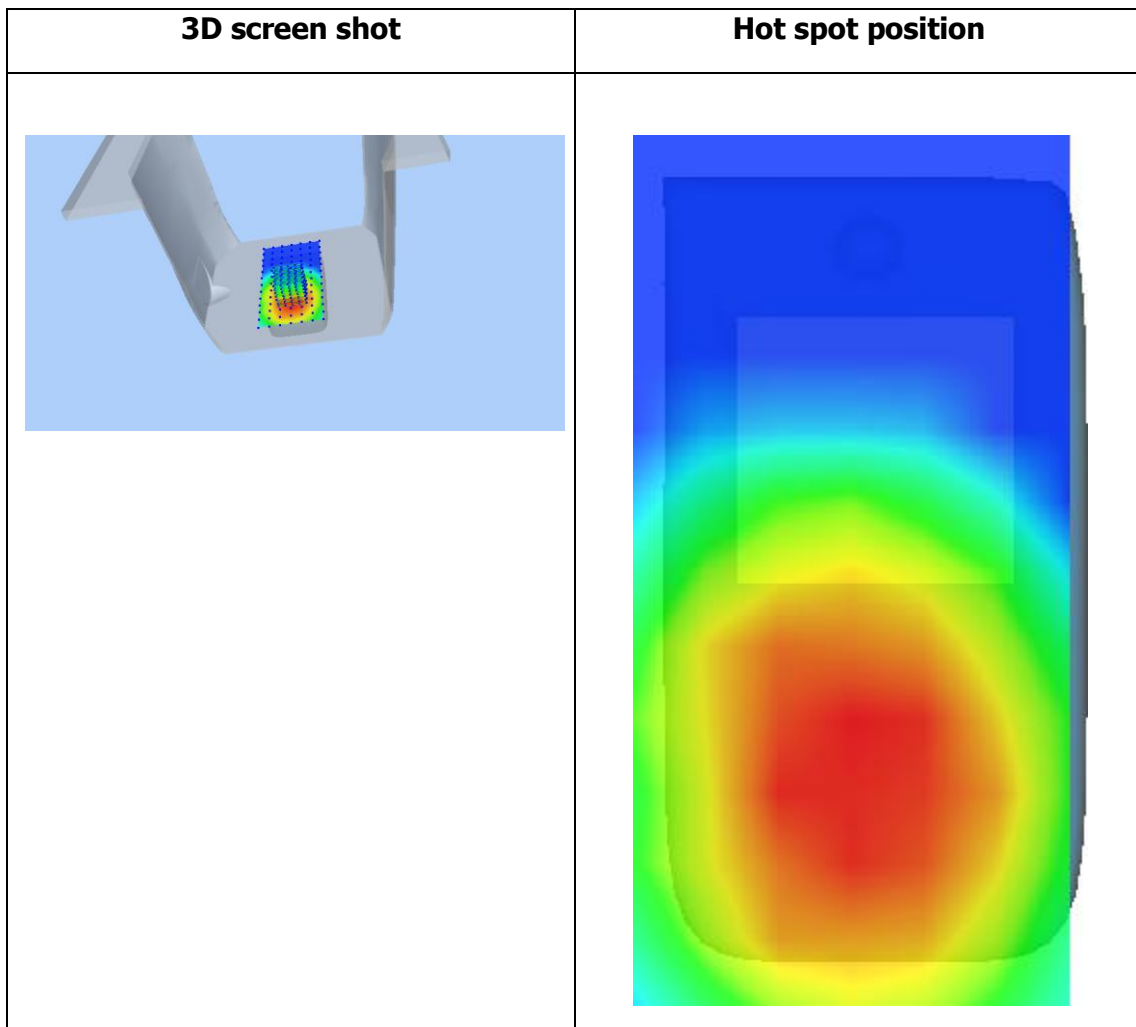
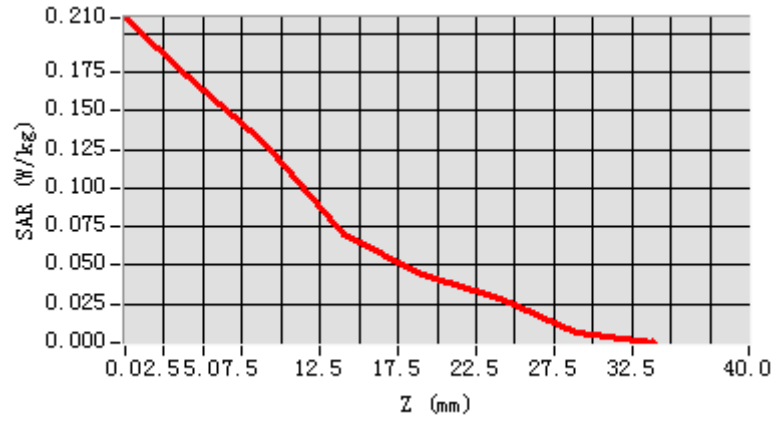


Maximum location: X=-2.00, Y=-26.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.113662
SAR 1g (W/Kg)	0.16668

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2102	0.1730	0.1288	0.0705	0.0446	0.0285	0.0066



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 25 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

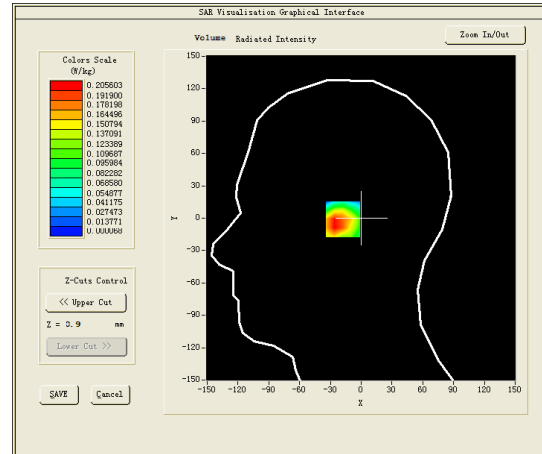
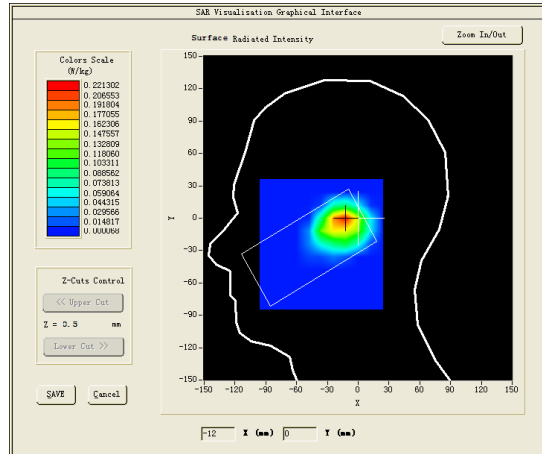
B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	53.225300
Relative permittivity (imaginary part)	14.826600
Conductivity (S/m)	1.524010
Variation (%)	-2.240000

SURFACE SAR

VOLUME SAR

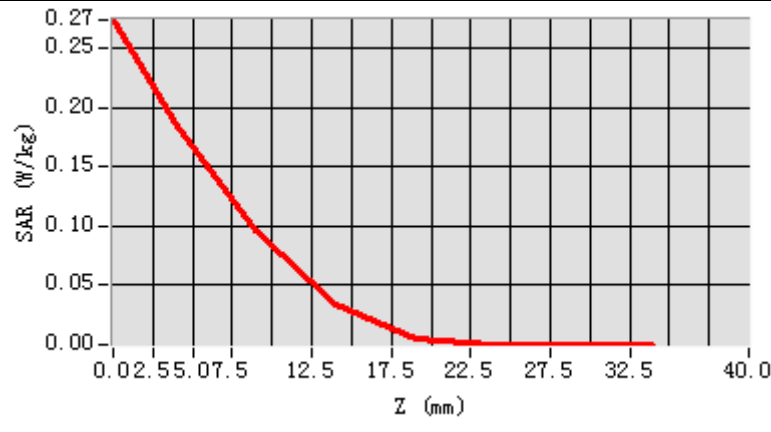


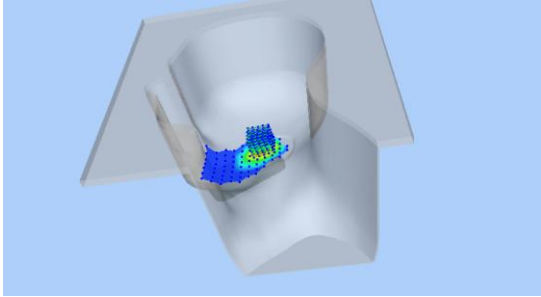
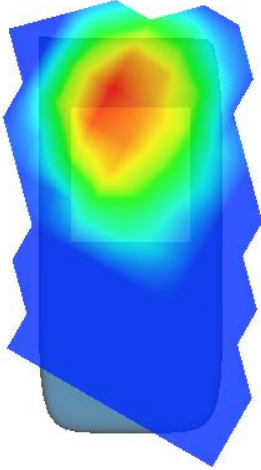
Maximum location: X=-13.00, Y=-1.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.089127
SAR 1g (W/Kg)	0.196610

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2742	0.1841	0.0964	0.0336	0.0044	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 30 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

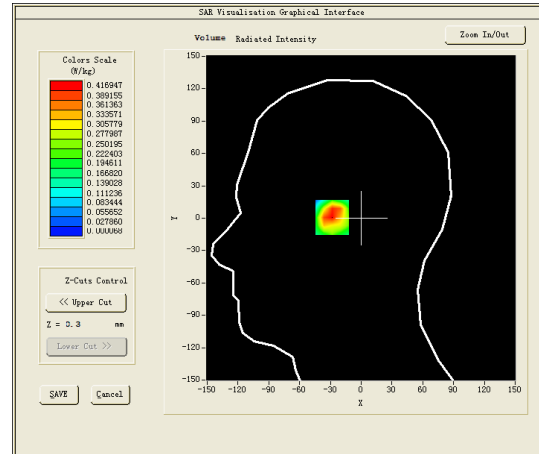
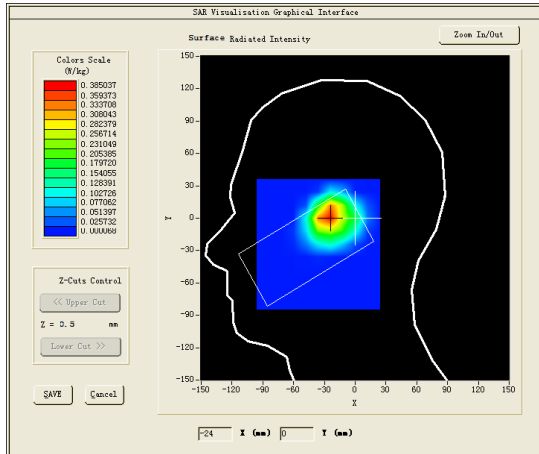
B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.541901
Relative permittivity (imaginary part)	14.439500
Conductivity (S/m)	1.508126
Variation (%)	-1.60000

SURFACE SAR

VOLUME SAR

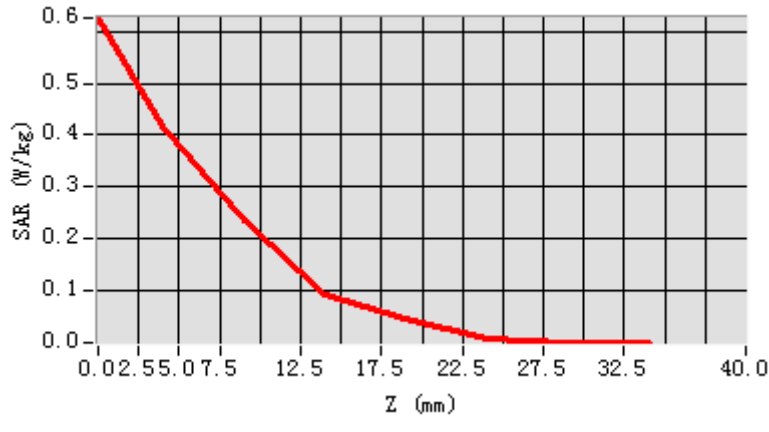


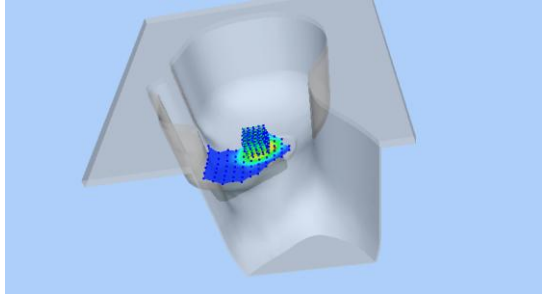
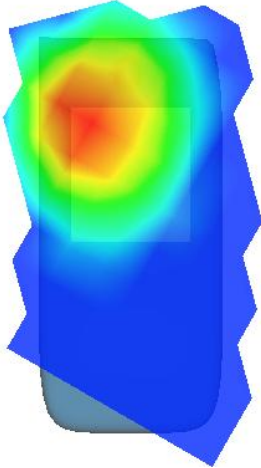
Maximum location: X=-25.00, Y=2.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.186376
SAR 1g (W/Kg)	0.394025

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6257	0.4169	0.2357	0.0916	0.0447	0.0079	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 28 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

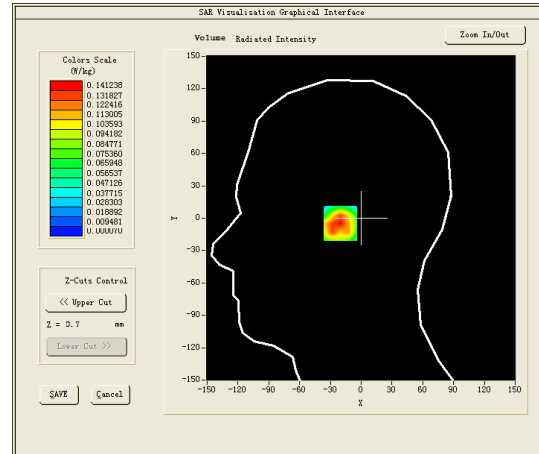
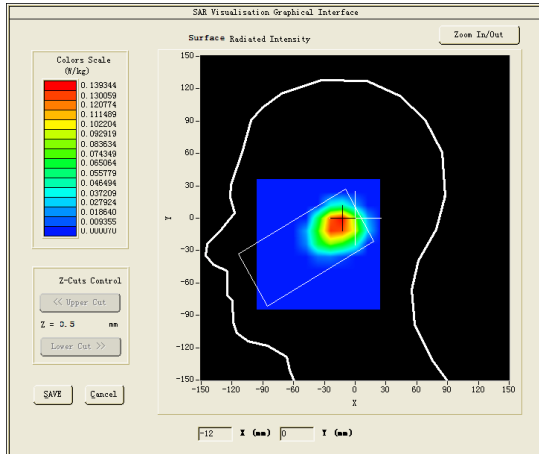
B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	53.861198
Relative permittivity (imaginary part)	14.625960
Conductivity (S/m)	1.551814
Variation (%)	-1.140000

SURFACE SAR

VOLUME SAR

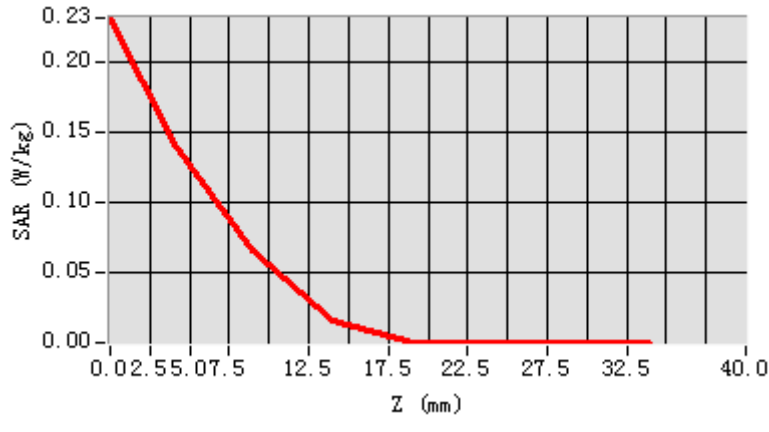


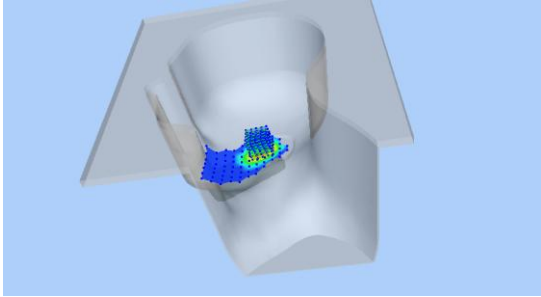
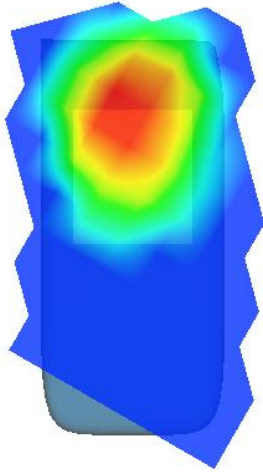
Maximum location: X=-15.00, Y=-5.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.057826
SAR 1g (W/Kg)	0.131666

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2318	0.1412	0.0658	0.0155	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 27 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

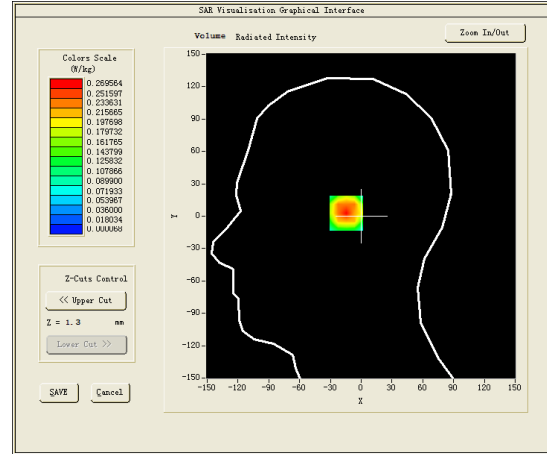
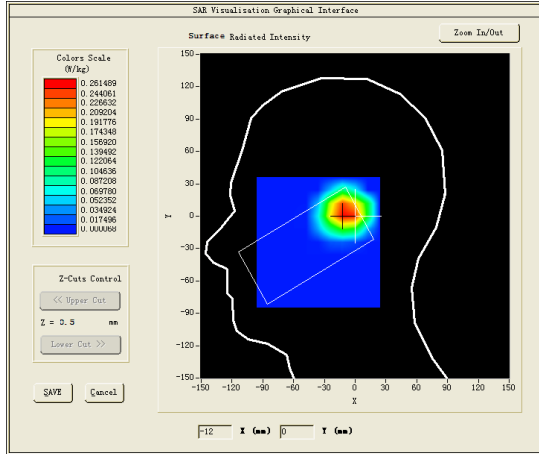
B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.541901
Relative permittivity (imaginary part)	14.439500
Conductivity (S/m)	1.508126
Variation (%)	-1.890000

SURFACE SAR

VOLUME SAR

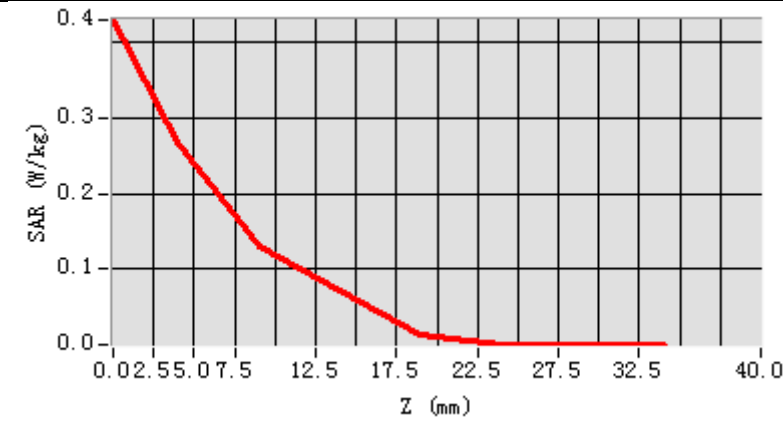


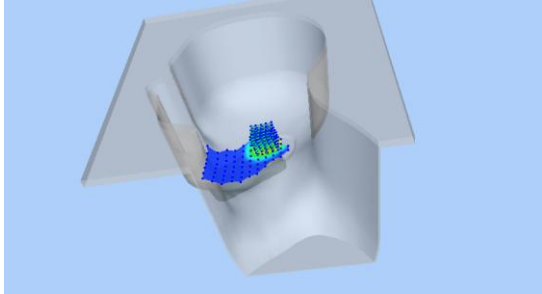
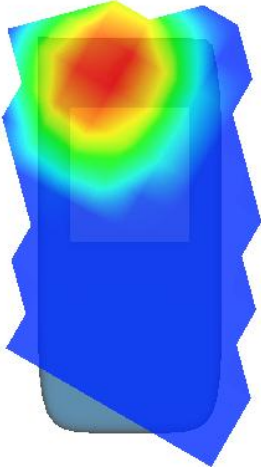
Maximum location: X=-9.00, Y=3.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.120742
SAR 1g (W/Kg)	0.245874

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4305	0.2696	0.1292	0.0711	0.0143	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 40 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

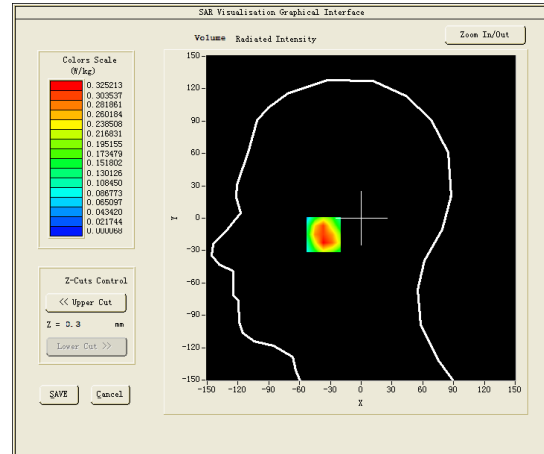
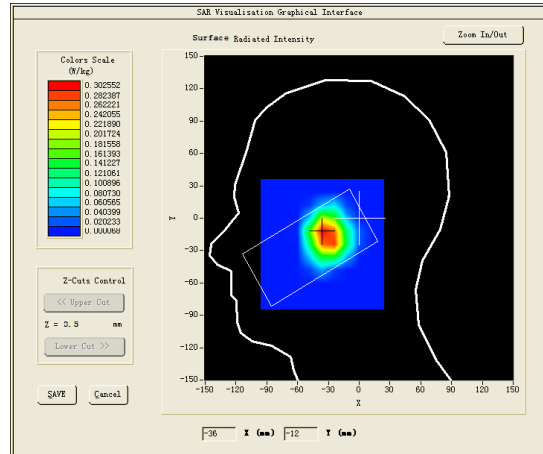
B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.541901
Relative permittivity (imaginary part)	14.439500
Conductivity (S/m)	1.508126
Variation (%)	0.000000

SURFACE SAR

VOLUME SAR

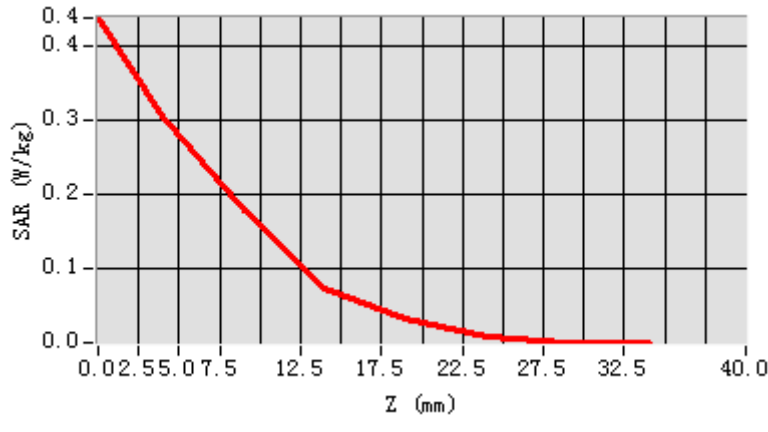


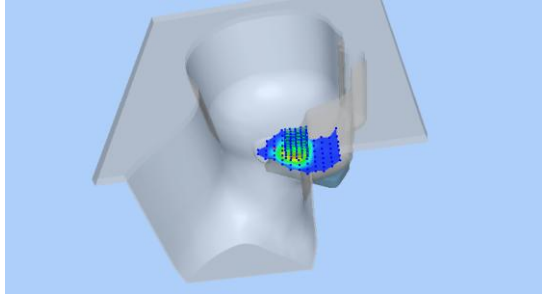
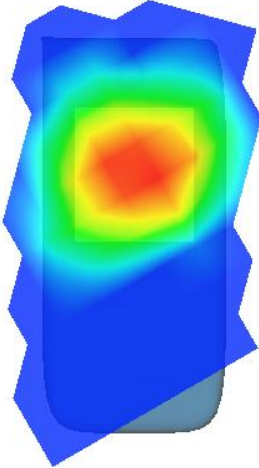
Maximum location: X=-33.00, Y=-15.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.144944
SAR 1g (W/Kg)	0.311294

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4383	0.3046	0.1779	0.0743	0.0314	0.0081	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 33 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

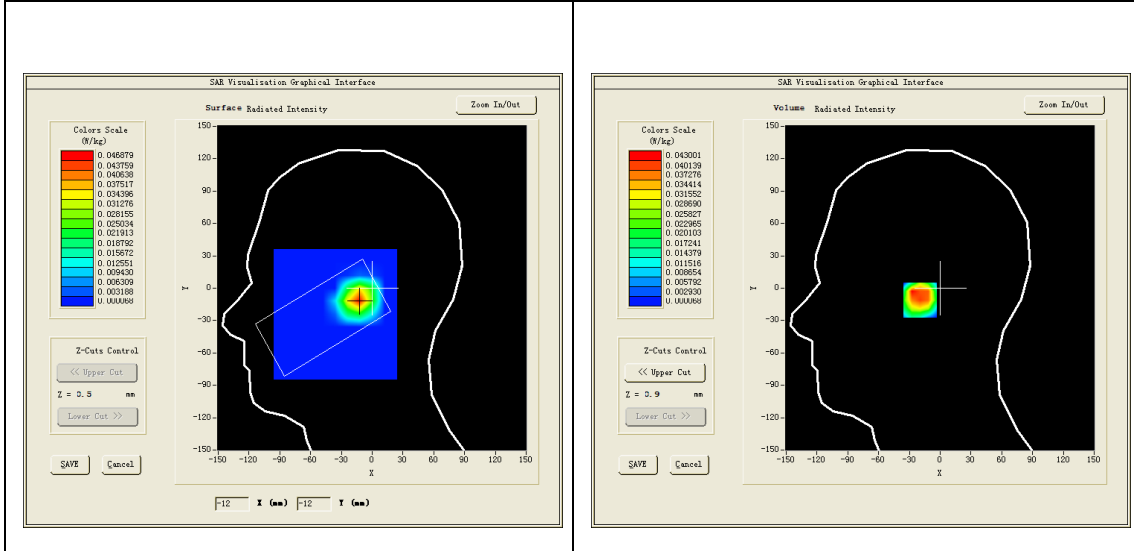
B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.541901
Relative permittivity (imaginary part)	14.439500
Conductivity (S/m)	1.508126
Variation (%)	2.540000

SURFACE SAR

VOLUME SAR

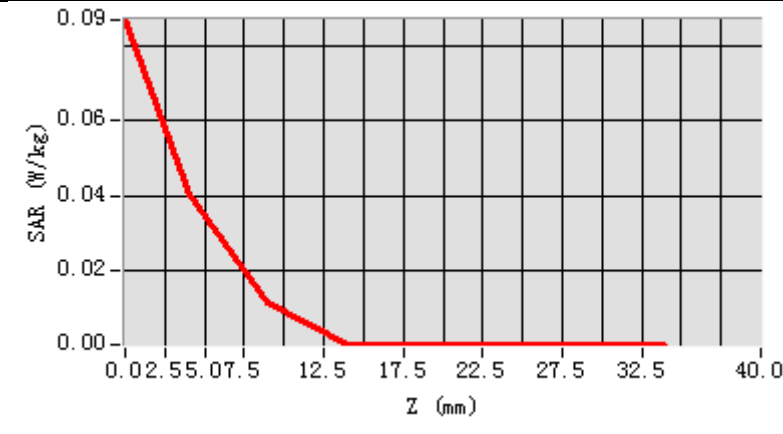


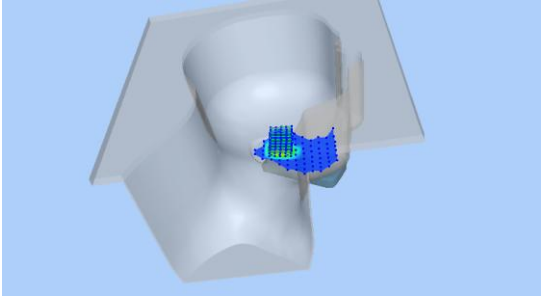
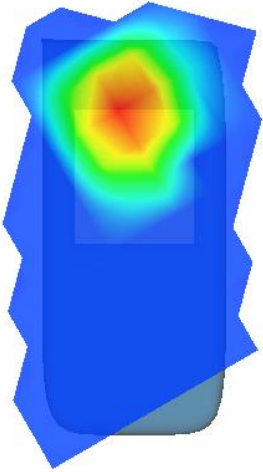
Maximum location: X=-13.00, Y=-11.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.014684
SAR 1g (W/Kg)	0.043114

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0869	0.0403	0.0115	0.0001	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 14

Towards-ground-with-headset-low

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 9 minutes 59 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.78</u>

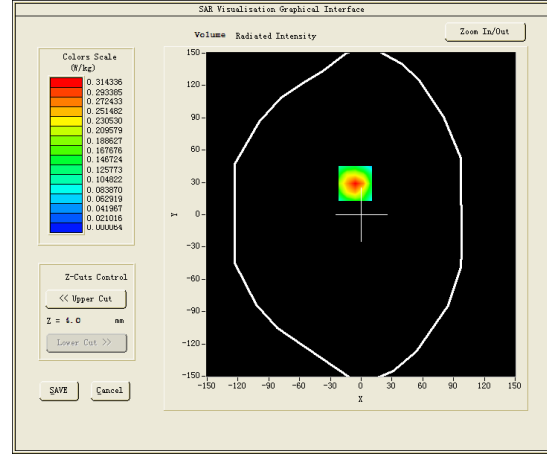
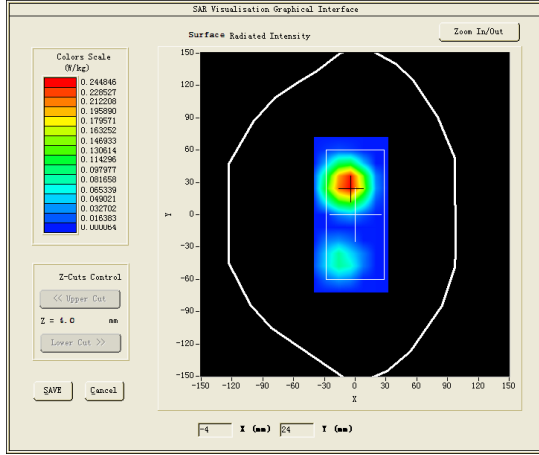
B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	53.225300
Relative permittivity (imaginary part)	14.826600
Conductivity (S/m)	1.524010
Variation (%)	0.000000

SURFACE SAR

VOLUME SAR

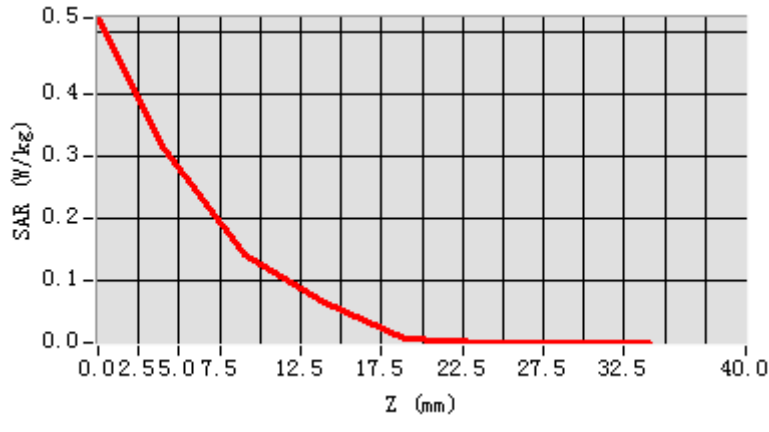


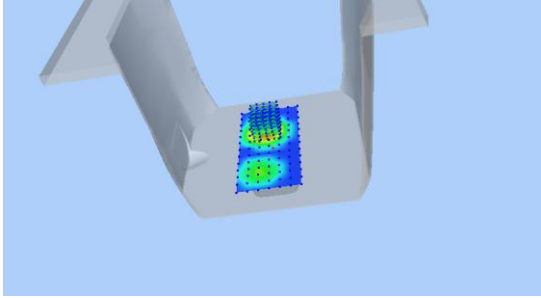
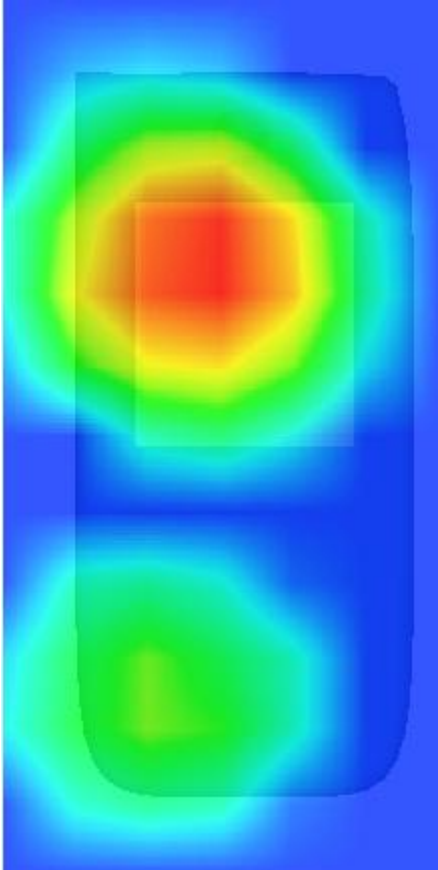
Maximum location: X=-6.00, Y=29.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.135881
SAR 1g (W/Kg)	0.308532

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5209	0.3143	0.1413	0.0655	0.0068	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 15

Towards-phantom-low

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 9 minutes 48 seconds

A. Experimental conditions.

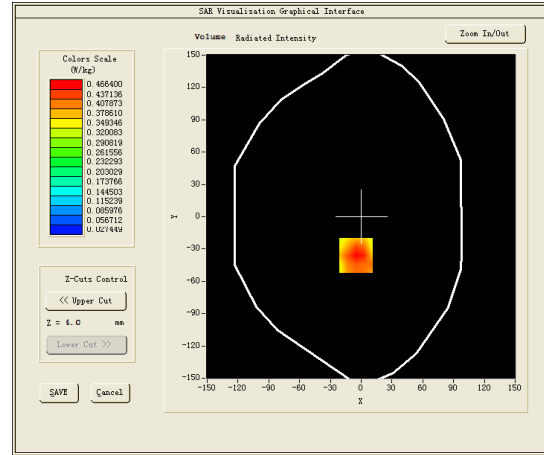
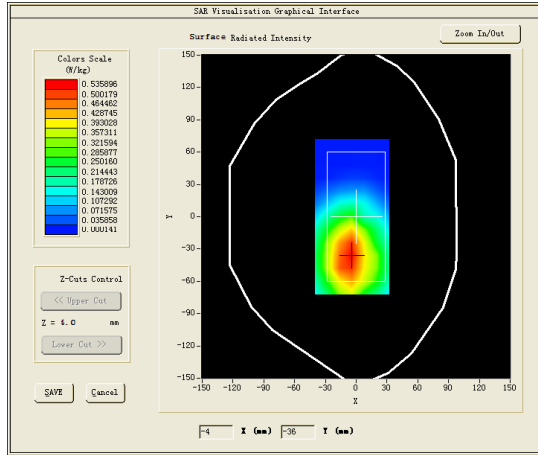
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	55.344379
Relative permittivity (imaginary part)	20.757259
Conductivity (S/m)	0.950452
Variation (%)	-1.340000

SURFACE SAR

VOLUME SAR

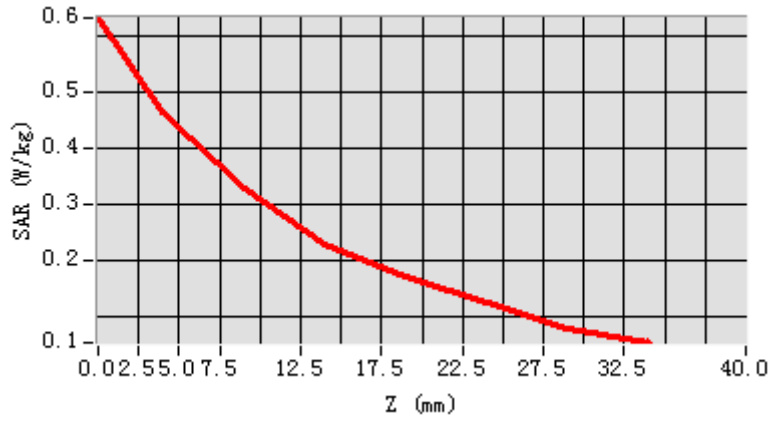


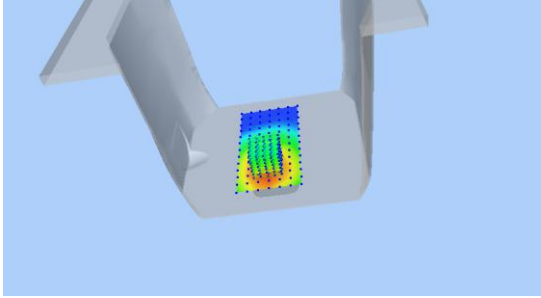
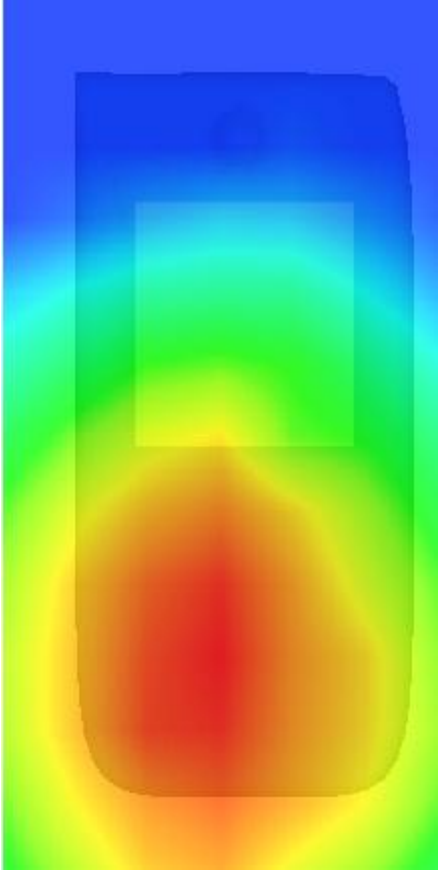
Maximum location: X=-5.00, Y=-36.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.300899
SAR 1g (W/Kg)	0.451742

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6341	0.4664	0.3300	0.2292	0.1700	0.1235	0.0760



3D screen shot	Hot spot position
	

MEASUREMENT 16

Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 12 minutes 5 seconds

A. Experimental conditions.

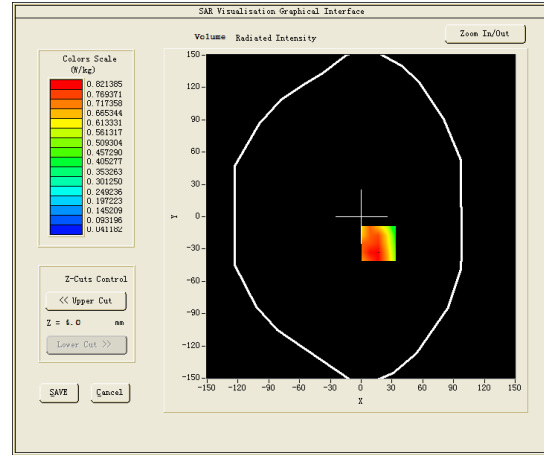
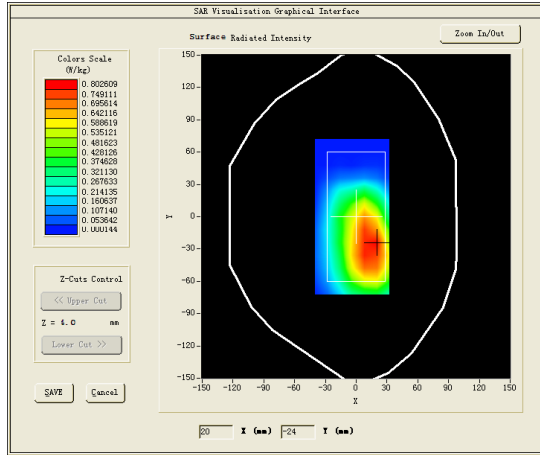
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.267799
Relative permittivity (imaginary part)	20.892120
Conductivity (S/m)	0.971019
Variation (%)	-1.800000

SURFACE SAR

VOLUME SAR

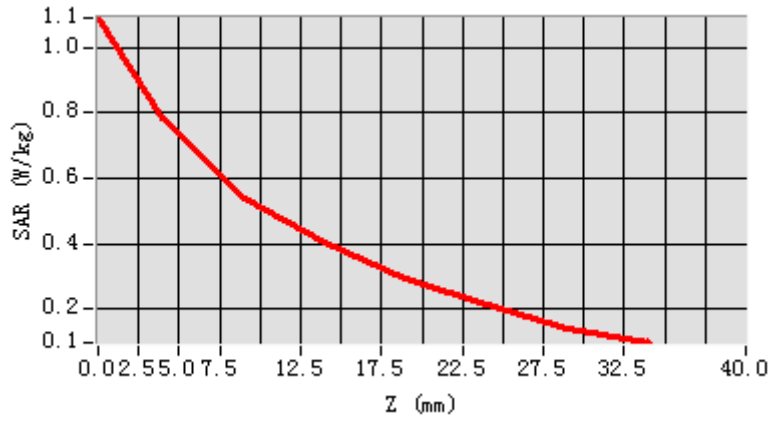


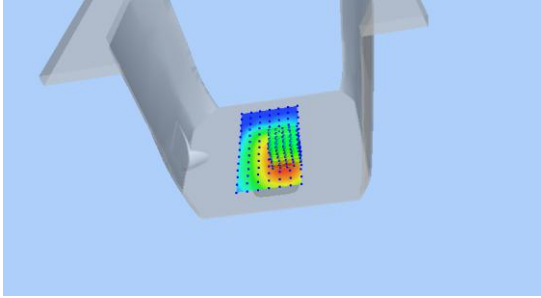
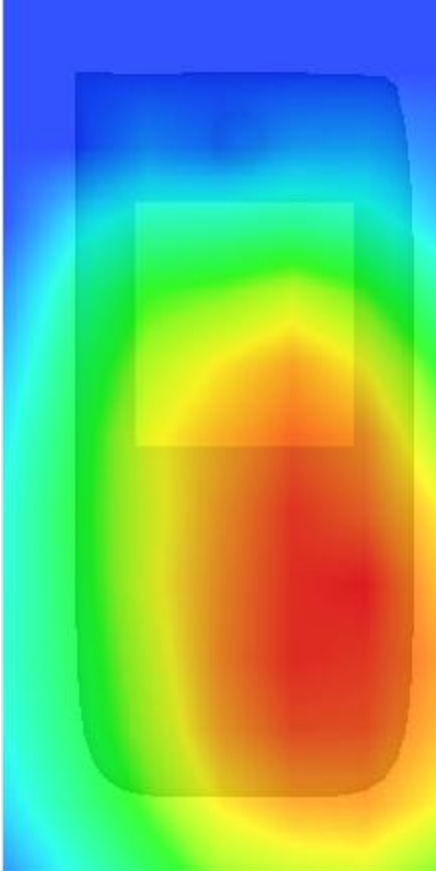
Maximum location: X=17.00, Y=-25.00

SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.542522
SAR 1g (W/Kg)	0.792181

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0918	0.7820	0.5407	0.4036	0.2941	0.2122	0.1363



3D screen shot	Hot spot position
	

MEASUREMENT 17

Towards-phantom-high

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 9 minutes 58 seconds

A. Experimental conditions.

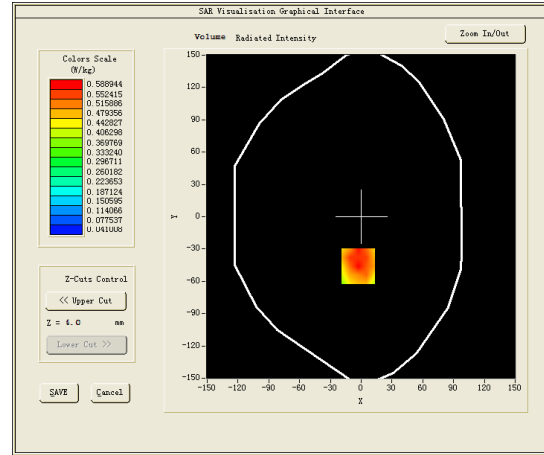
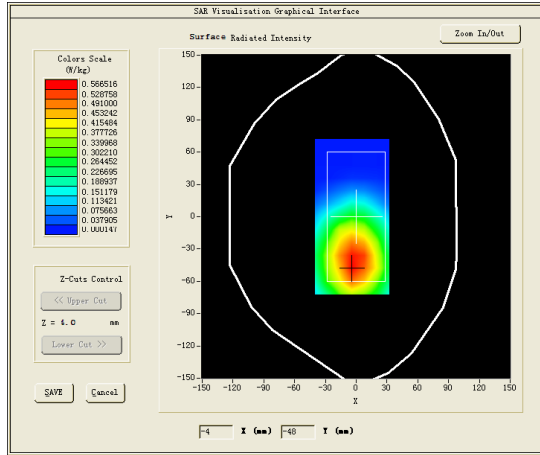
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

B. SAR Measurement Results

Frequency (MHz)	848.799988
Relative permittivity (real part)	55.148041
Relative permittivity (imaginary part)	20.969879
Conductivity (S/m)	0.988846
Variation (%)	2.060000

SURFACE SAR

VOLUME SAR

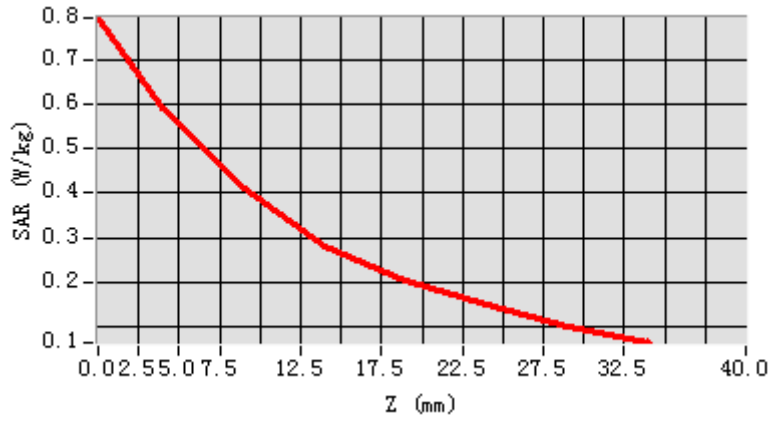


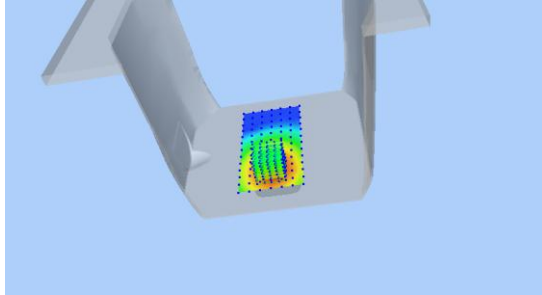
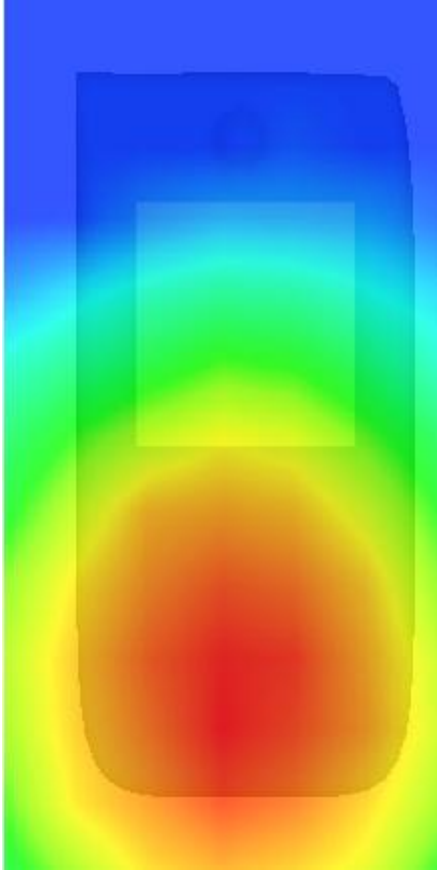
Maximum location: X=-3.00, Y=-46.00

SAR Peak: 0.80 W/kg

SAR 10g (W/Kg)	0.375512
SAR 1g (W/Kg)	0.557460

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7934	0.5889	0.4090	0.2811	0.2029	0.1492	0.1015



3D screen shot	Hot spot position
	

MEASUREMENT 18

Towards-ground-low

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 10 minutes 18 seconds

A. Experimental conditions.

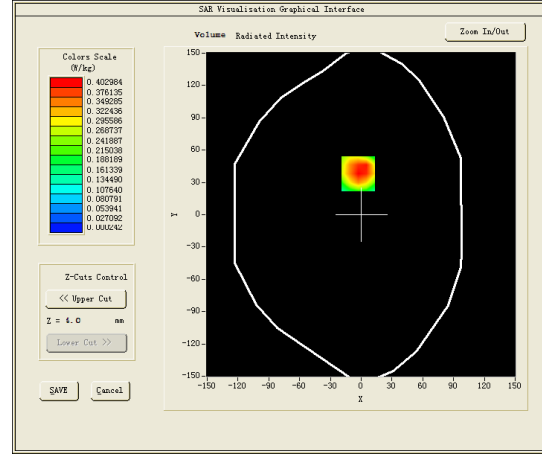
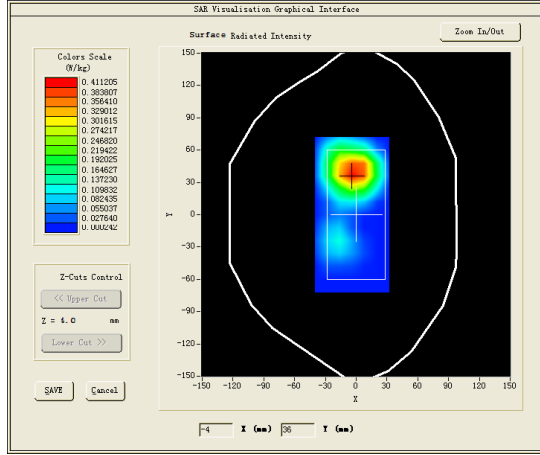
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

B. SAR Measurement Results

Frequency (MHz)	1850.199951
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.628520
Conductivity (S/m)	1.400860
Variation (%)	1.150000

SURFACE SAR

VOLUME SAR

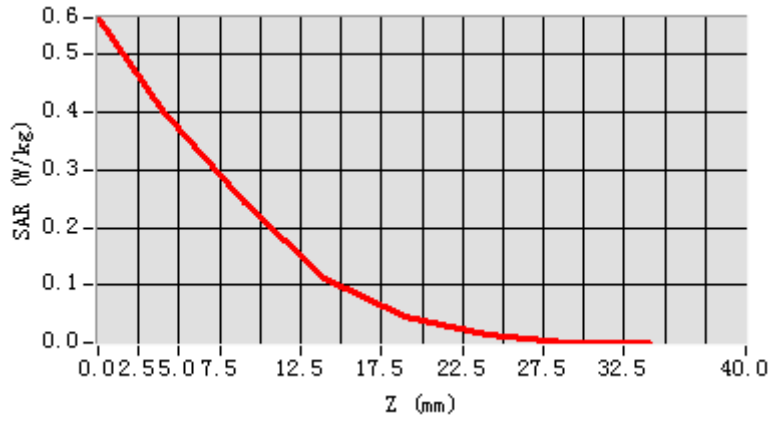


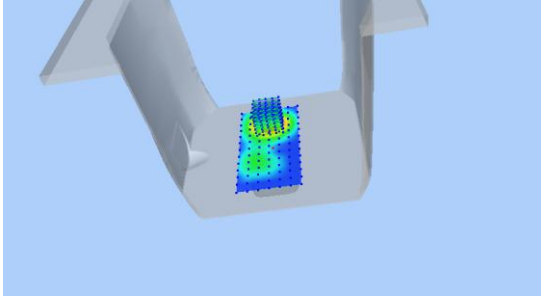
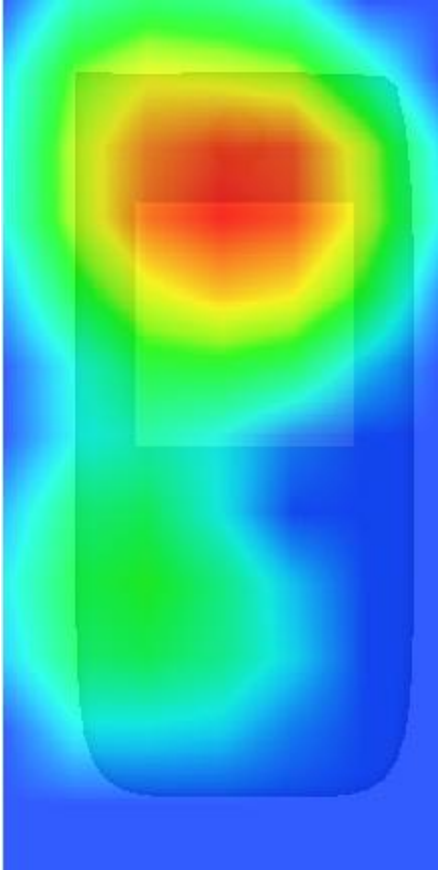
Maximum location: X=-3.00, Y=38.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.200388
SAR 1g (W/Kg)	0.392227

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5642	0.4030	0.2429	0.1122	0.0472	0.0149	0.0002



3D screen shot	Hot spot position
	

MEASUREMENT 19

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 11 minutes 29 seconds

A. Experimental conditions.

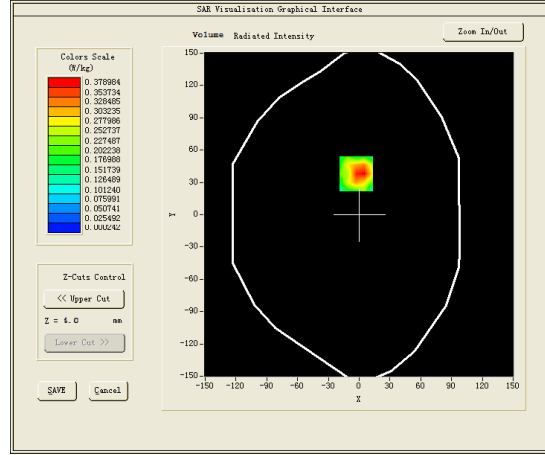
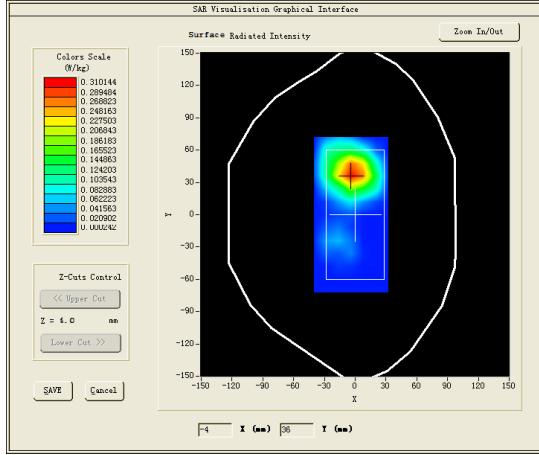
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	1.190000

SURFACE SAR

VOLUME SAR

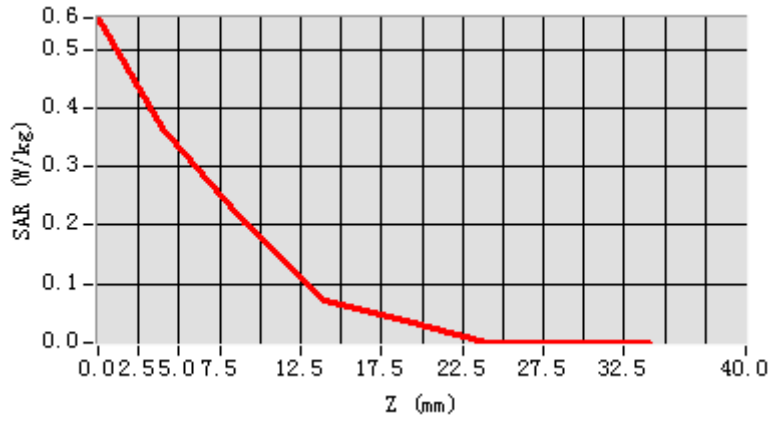


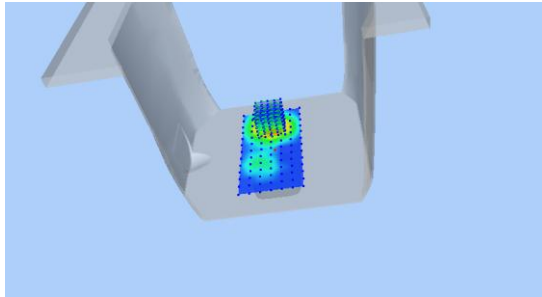
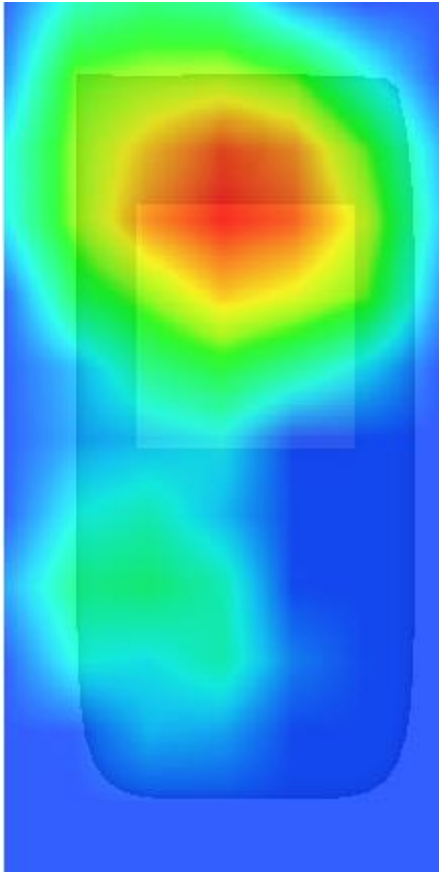
Maximum location: X=-3.00, Y=38.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.170214
SAR 1g (W/Kg)	0.364186

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5533	0.3660	0.2049	0.0729	0.0390	0.0002	0.0002



3D screen shot	Hot spot position
	

MEASUREMENT 20

Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 10 minutes 26 seconds

A. Experimental conditions.

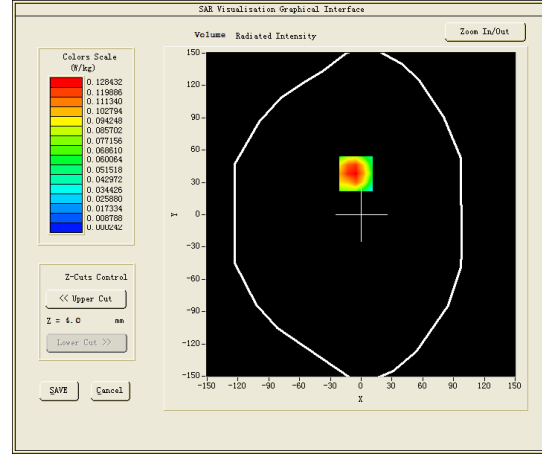
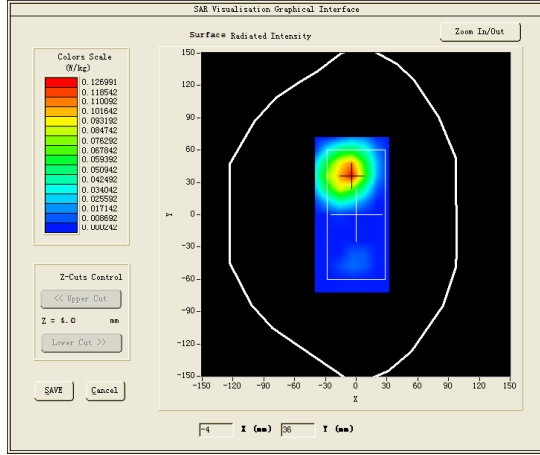
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	0.000000

SURFACE SAR

VOLUME SAR

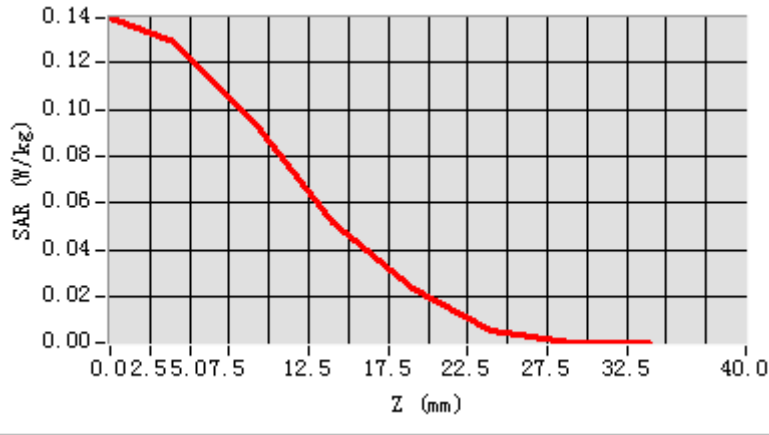


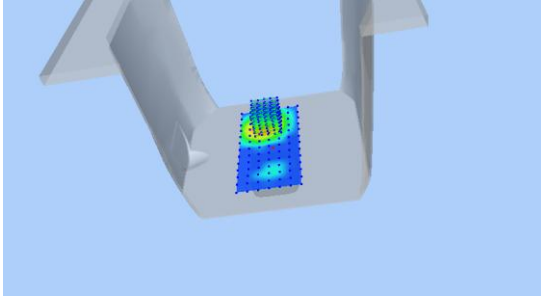
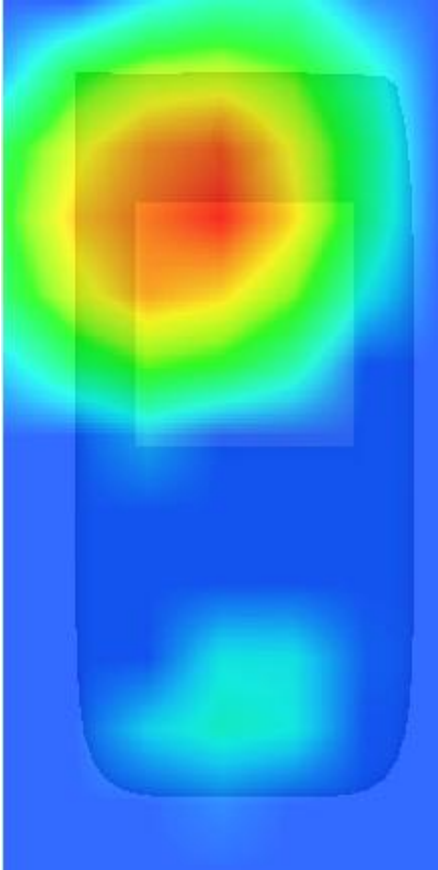
Maximum location: X=-5.00, Y=38.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.071019
SAR 1g (W/Kg)	0.119562

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1390	0.1284	0.0953	0.0513	0.0234	0.0057	0.0002



3D screen shot	Hot spot position
	

MEASUREMENT 21

Towards-ground-high

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 10 minutes 45 seconds

A. Experimental conditions.

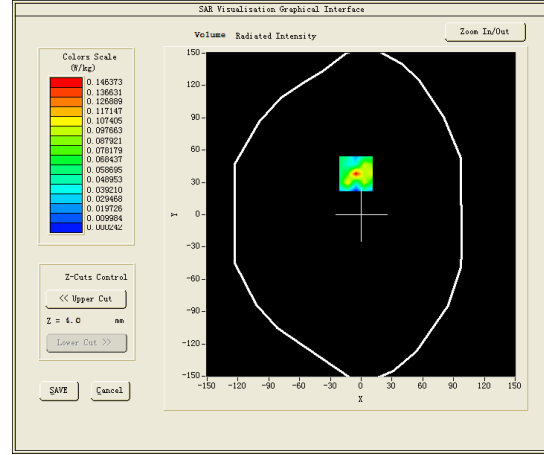
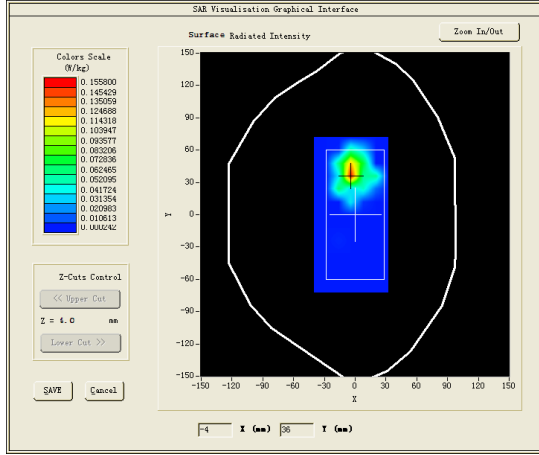
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.195320
Conductivity (S/m)	1.400023
Variation (%)	0.000000

SURFACE SAR

VOLUME SAR

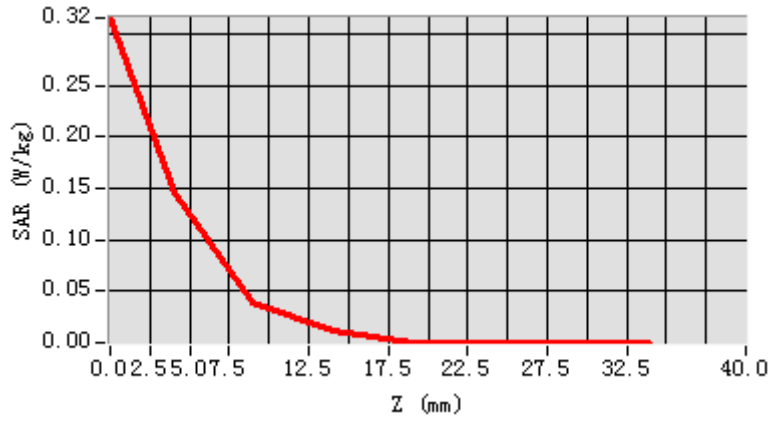


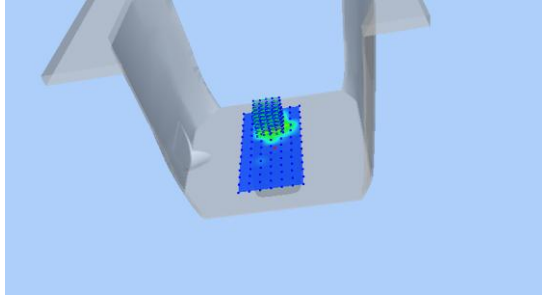
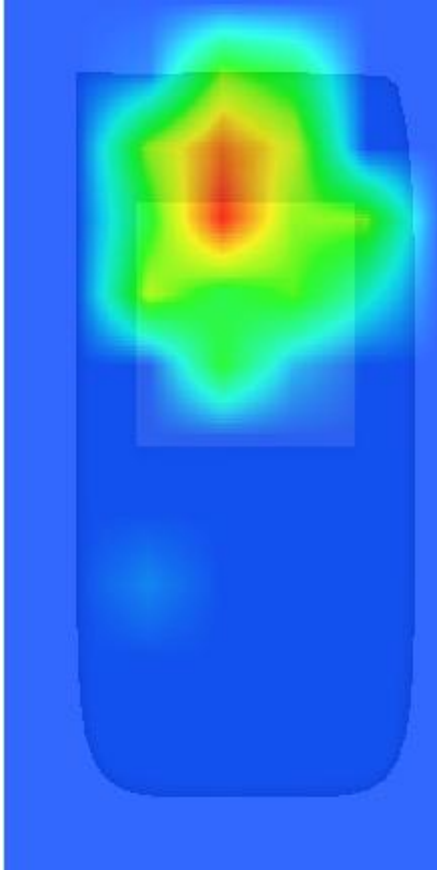
Maximum location: X=-5.00, Y=38.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.041035
SAR 1g (W/Kg)	0.127283

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3153	0.1464	0.0395	0.0112	0.0002	0.0002	0.0002



3D screen shot	Hot spot position
	

MEASUREMENT 22

SIM2

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 9 minutes 2 seconds

A. Experimental conditions.

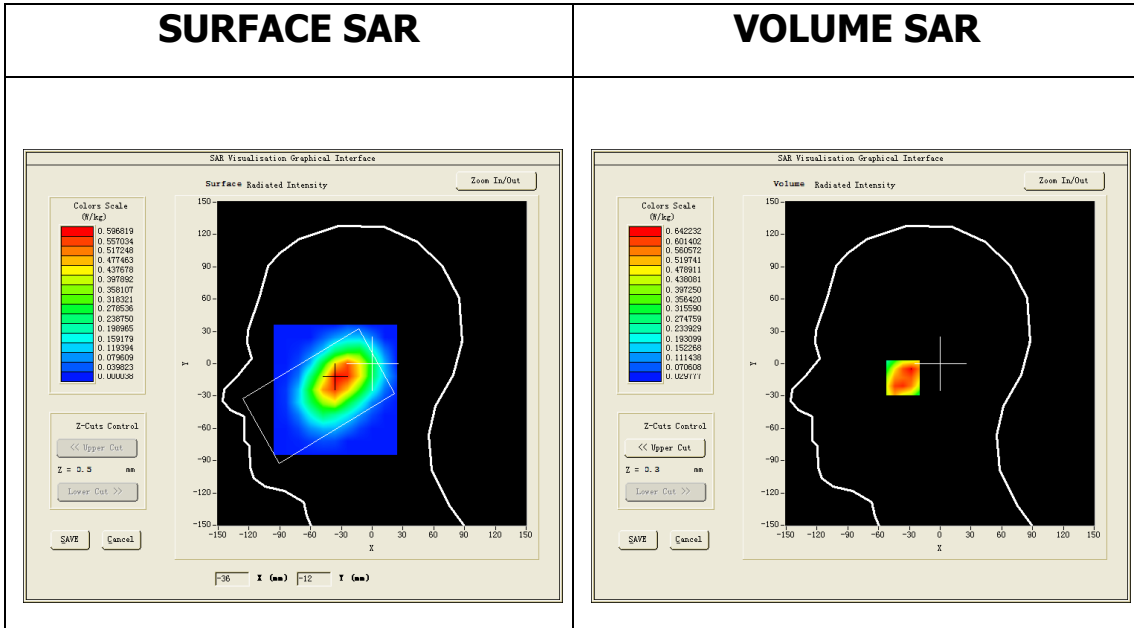
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.93</u>

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	41.517799

Relative permittivity (imaginary part)	19.492121
Conductivity (S/m)	0.905950
Variation (%)	0.350000

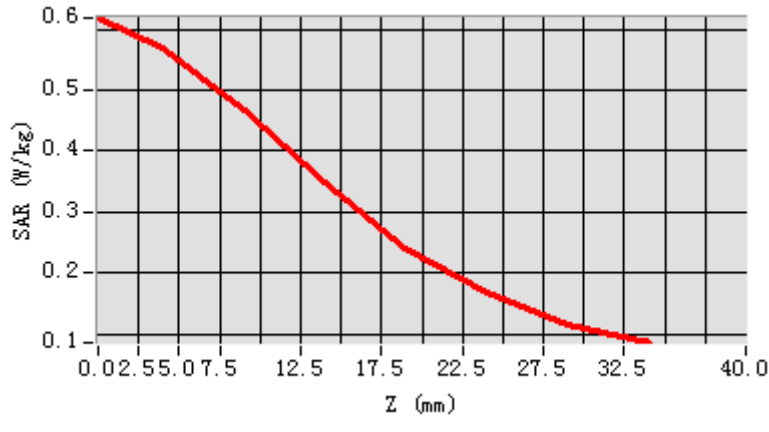


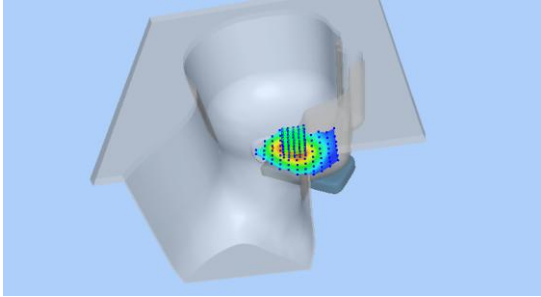
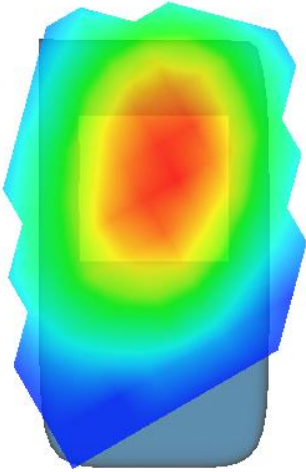
Maximum location: X=-33.00, Y=-13.00

SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.165101
SAR 1g (W/Kg)	0.267601

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6187	0.5708	0.4665	0.3477	0.2406	0.1697	0.1160



3D screen shot	Hot spot position
	

MEASUREMENT 23

SIM2

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 8 minutes 30 seconds

A. Experimental conditions.

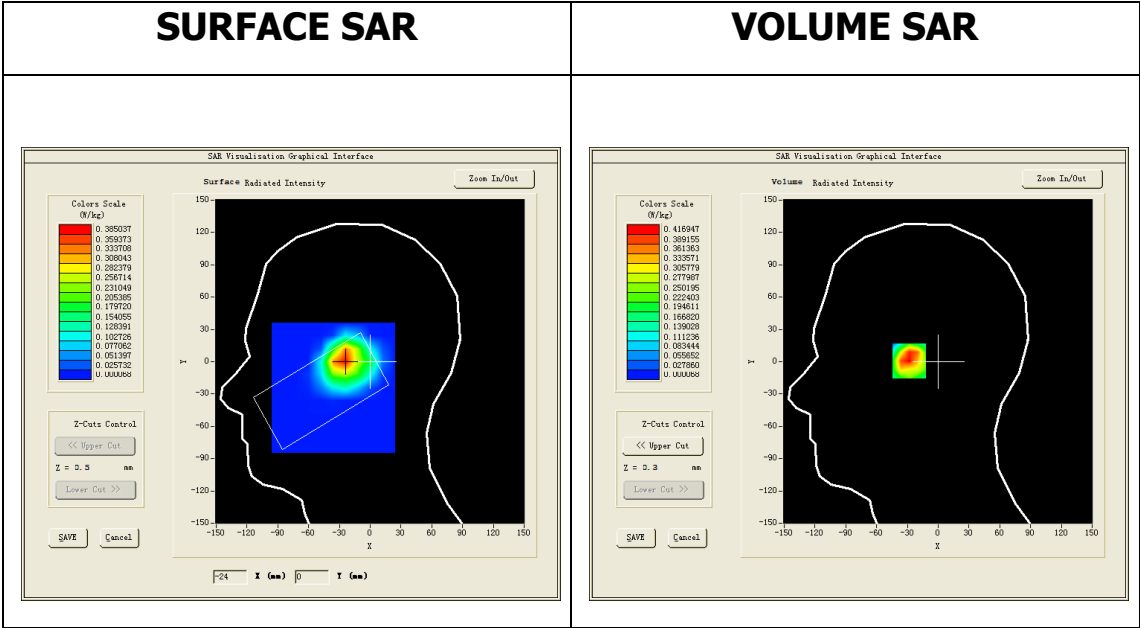
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM(duty cycle : 1:8)</u>
<u>Conversion factor</u>	<u>4.63</u>

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.541901
Relative permittivity (imaginary part)	14.439500
Conductivity (S/m)	1.508126

Variation (%)	-1.300000
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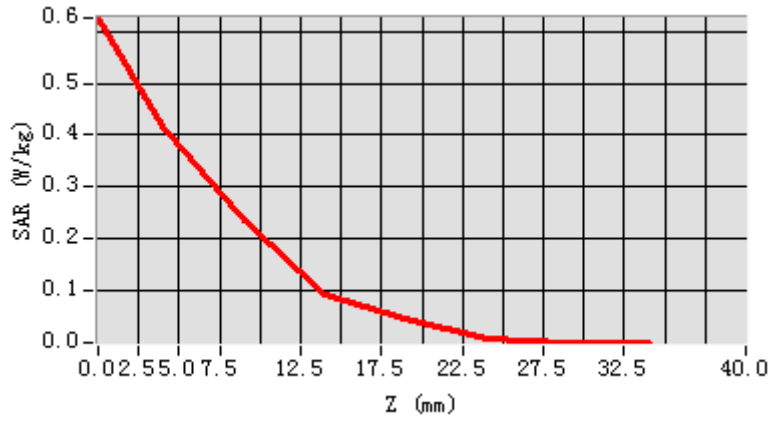


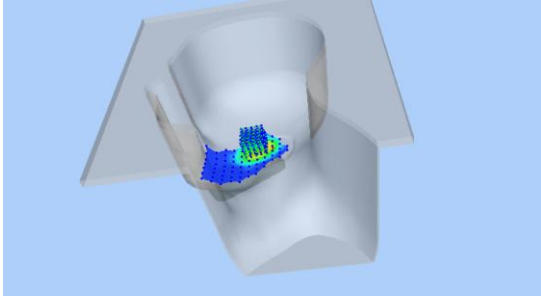
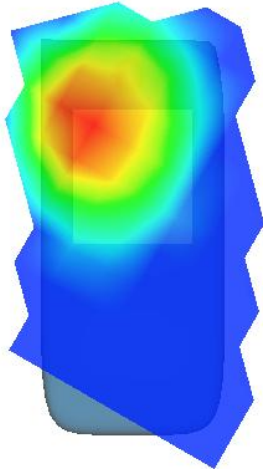
Maximum location: X=-25.00, Y=2.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.120376
SAR 1g (W/Kg)	0.323025

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6257	0.4169	0.2357	0.0916	0.0447	0.0079	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 24

Towards-phantom-middle-SIM2

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 12 minutes 5 seconds

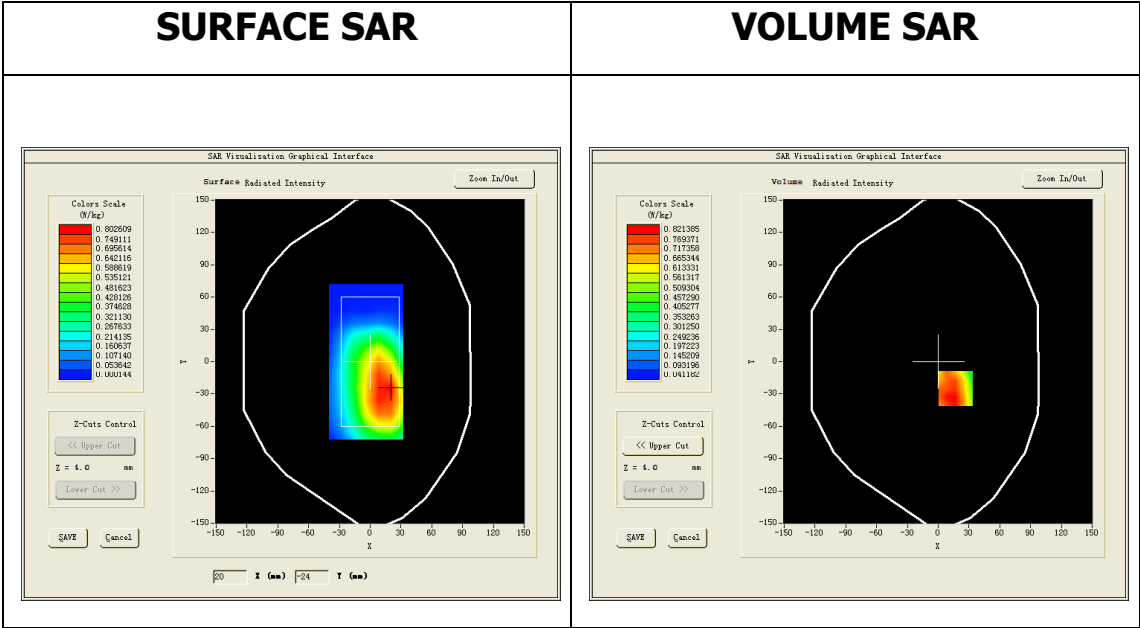
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.267799
Relative permittivity (imaginary part)	20.892120
Conductivity (S/m)	0.971019

Variation (%)	1.260000
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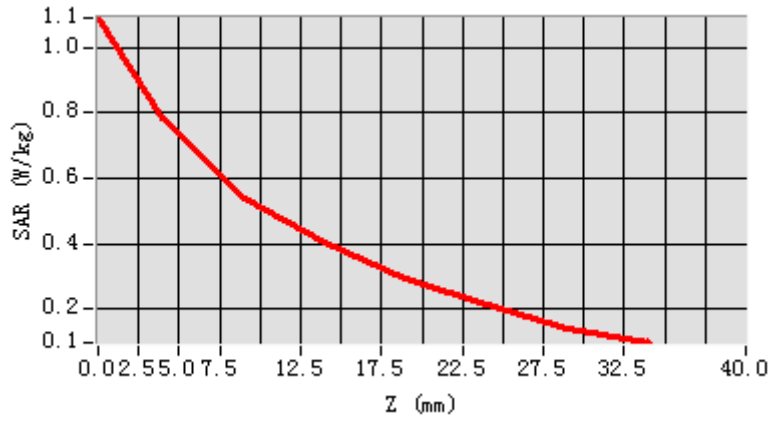


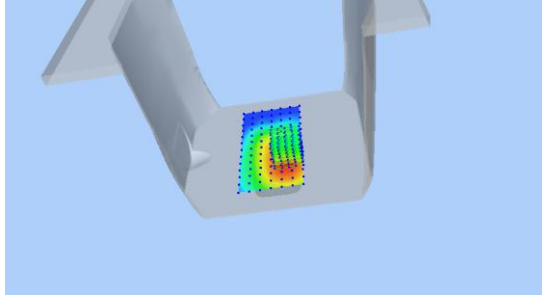
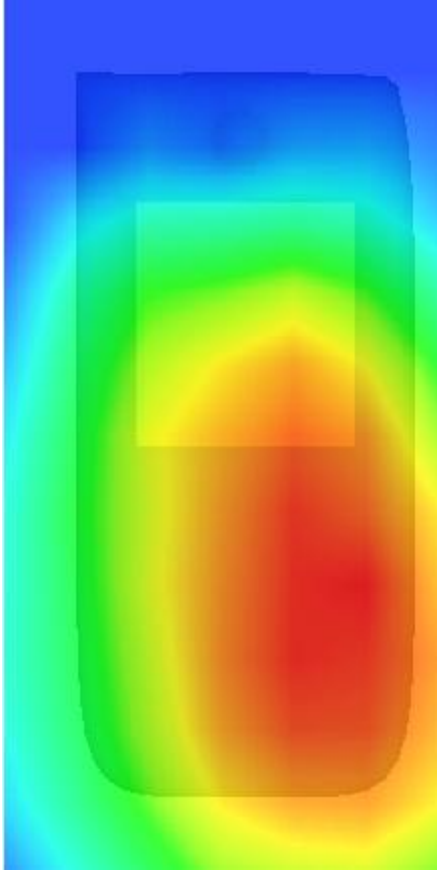
Maximum location: X=17.00, Y=-25.00

SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.310522
SAR 1g (W/Kg)	0.423181

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0918	0.7820	0.5407	0.4036	0.2941	0.2122	0.1363



3D screen shot	Hot spot position
	

MEASUREMENT 25

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 16/7/2016

Measurement duration: 10 minutes 31 seconds

A. Experimental conditions.

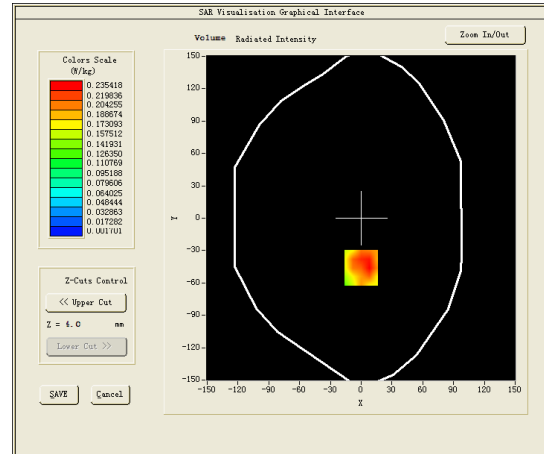
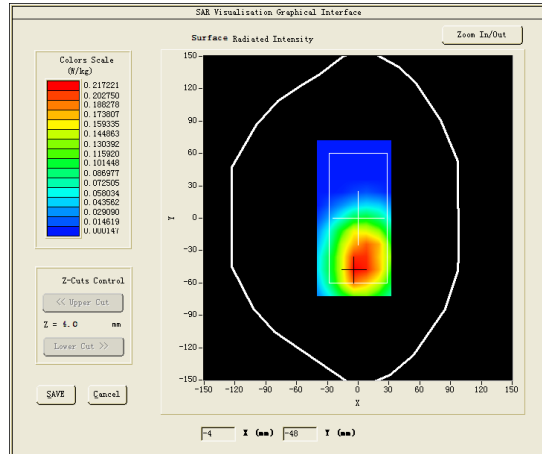
<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.148041
Relative permittivity (imaginary part)	20.969879
Conductivity (S/m)	0.988846
Variation (%)	1.190000

SURFACE SAR

VOLUME SAR

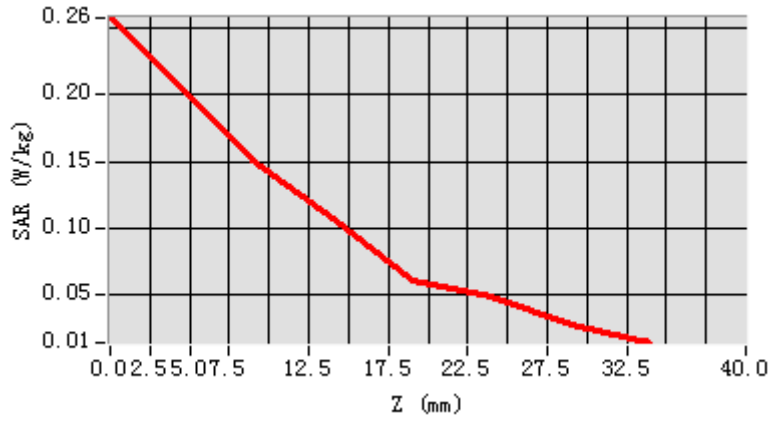


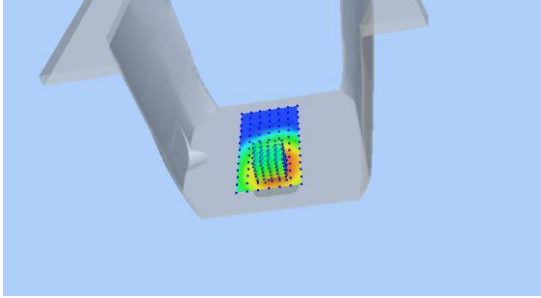
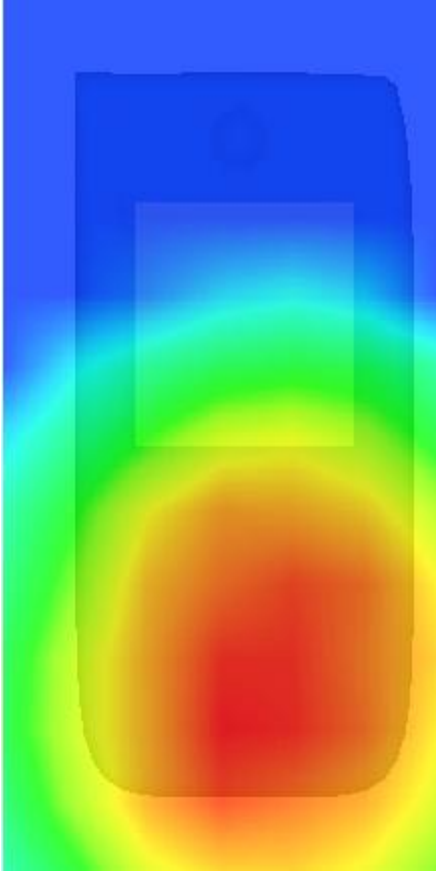
Maximum location: X=0.00, Y=-46.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.511520
SAR 1g (W/Kg)	0.760715

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2573	0.2109	0.1512	0.1070	0.0612	0.0486	0.0275



3D screen shot	Hot spot position
	

MEASUREMENT 26

Towards-ground-low-SIM2

Type: Phone measurement (Complete)

Date of measurement: 18/7/2016

Measurement duration: 10 minutes 18 seconds

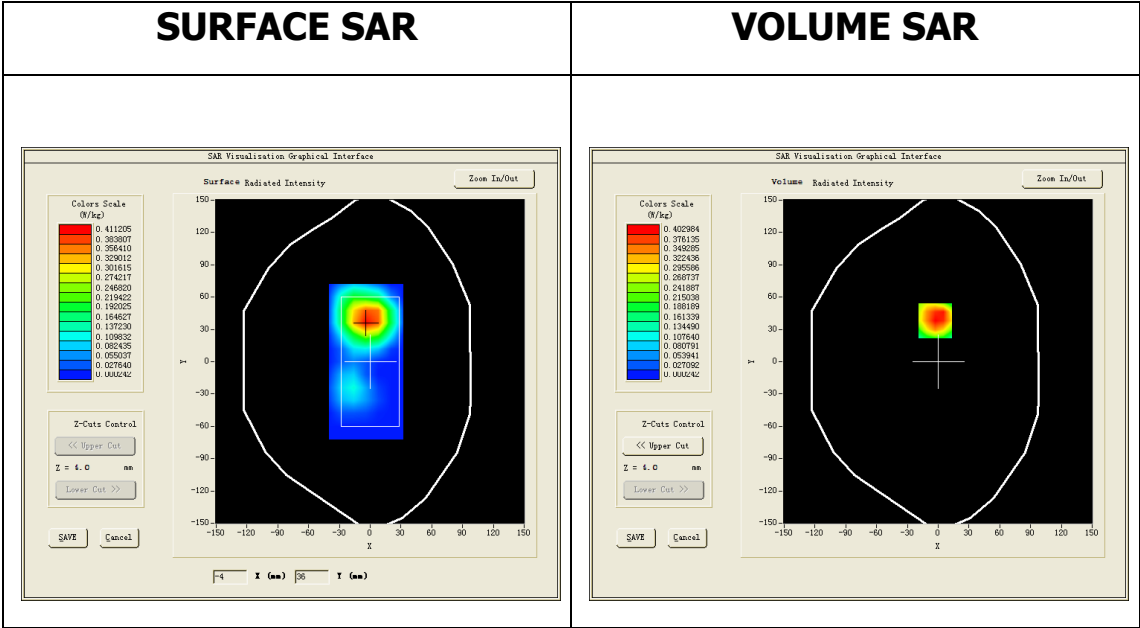
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm 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

Frequency (MHz)	1850.199951
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.628520
Conductivity (S/m)	1.400860

Variation (%)	1.600000
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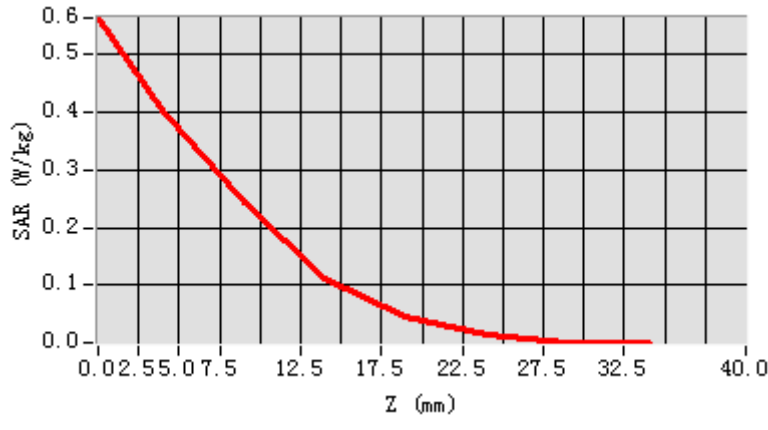


Maximum location: X=-3.00, Y=38.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.236388
SAR 1g (W/Kg)	0.324227

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5642	0.4030	0.2429	0.1122	0.0472	0.0149	0.0002



3D screen shot	Hot spot position
