

Annex C Plots of SAR Test Results

MEASUREMENT 1

Type: Phone measurement (Complete)
 Area scan resolution: dx=8mm,dy=8mm
 Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
 Date of measurement: 2017.11.16
 Measurement duration: 13 minutes 42 seconds

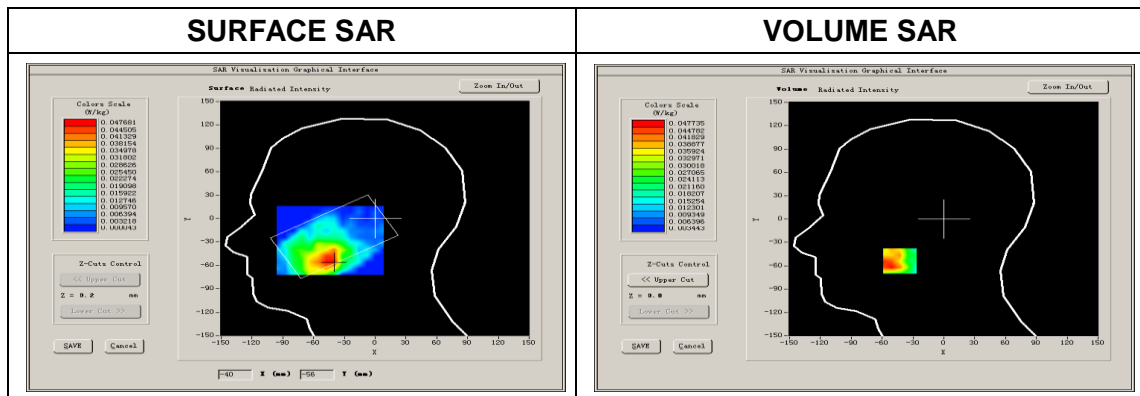
A. Experimental conditions.

<u>Phantom File</u>	surf_sam_plan.txt
<u>Phantom</u>	Right head
<u>Device Position</u>	Cheek
<u>Band</u>	GSM850
<u>Channels</u>	High
<u>Signal</u>	GSM

B. SAR Measurement Results

High Band SAR (Channel 251):

Frequency (MHz)	848.800000
Relative permittivity (real part)	41.033457
Conductivity (S/m)	0.902823
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Duty cycle:	1:1



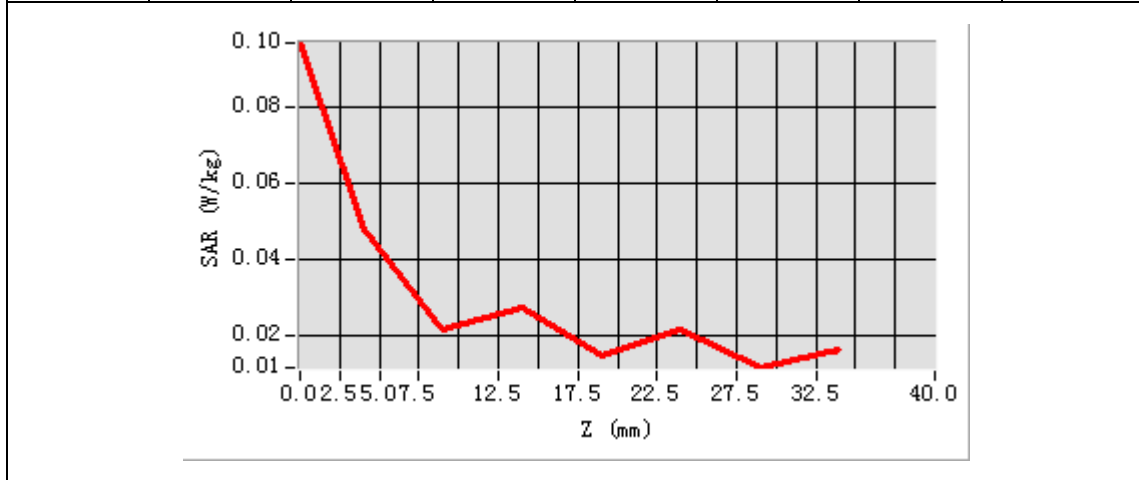
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

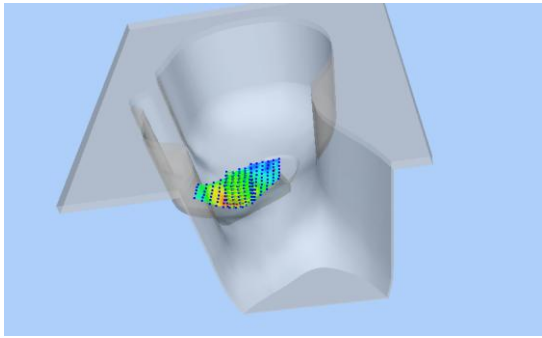
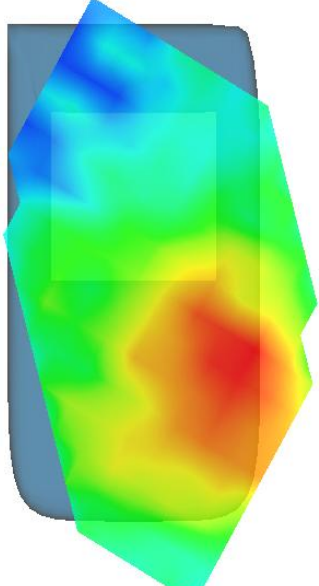
Maximum location: X=-43.00, Y=-54.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.032480
SAR 1g (W/Kg)	0.048810

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0969	0.0477	0.0212	0.0270	0.0147	0.0216	0.0113



3D screen shot	Hot spot position
	

MEASUREMENT 2

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.15

Measurement duration: 13 minutes 56 seconds

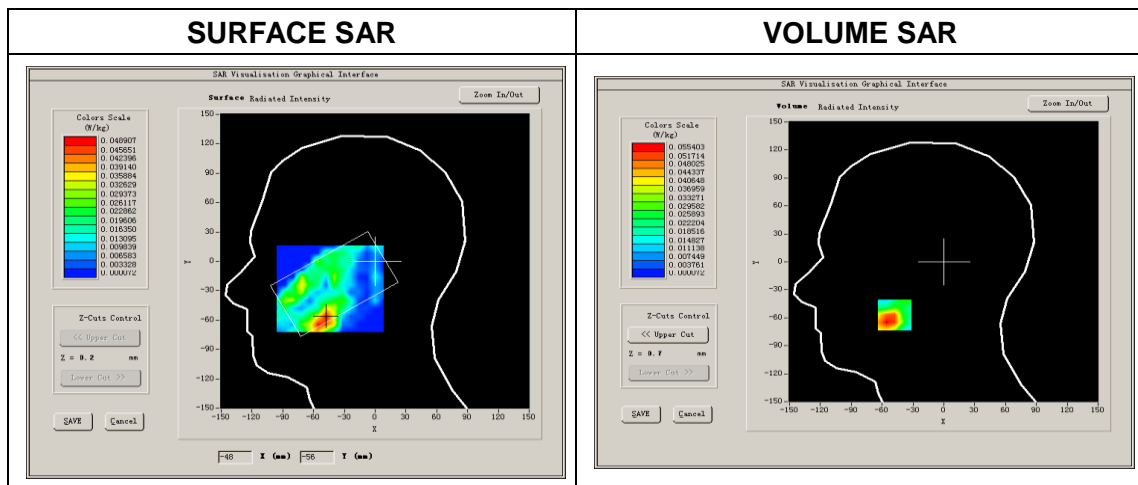
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</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>High</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement Results

High Band SAR (Channel 810):

Frequency (MHz)	1907.600000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Duty cycle:	1:1

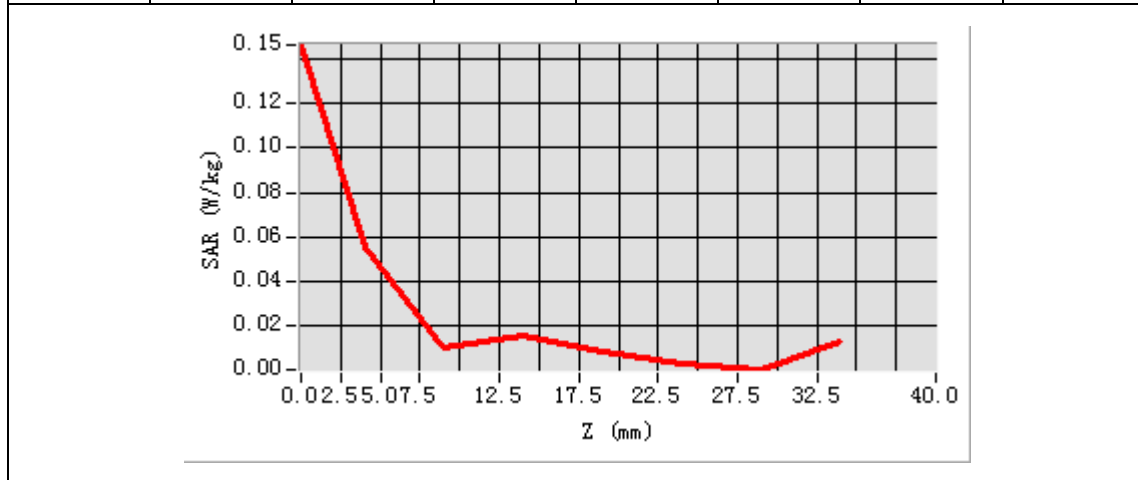


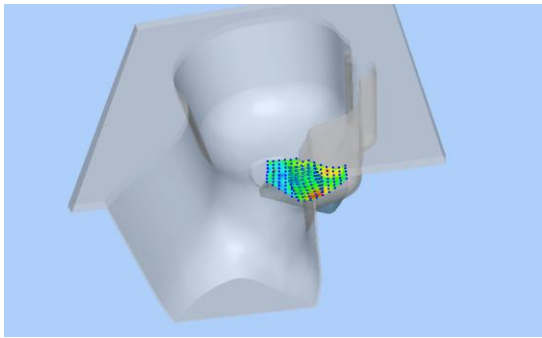
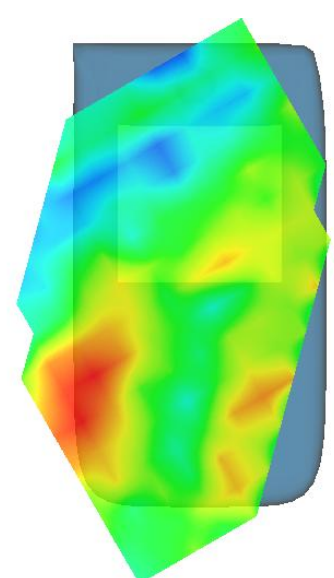
Maximum location: X=-48.00, Y=-57.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.028495
SAR 1g (W/Kg)	0.057645

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1460	0.0554	0.0102	0.0160	0.0091	0.0036	0.0006



3D screen shot	Hot spot position
	

MEASUREMENT 3

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.15

Measurement duration: 13 minutes 18 seconds

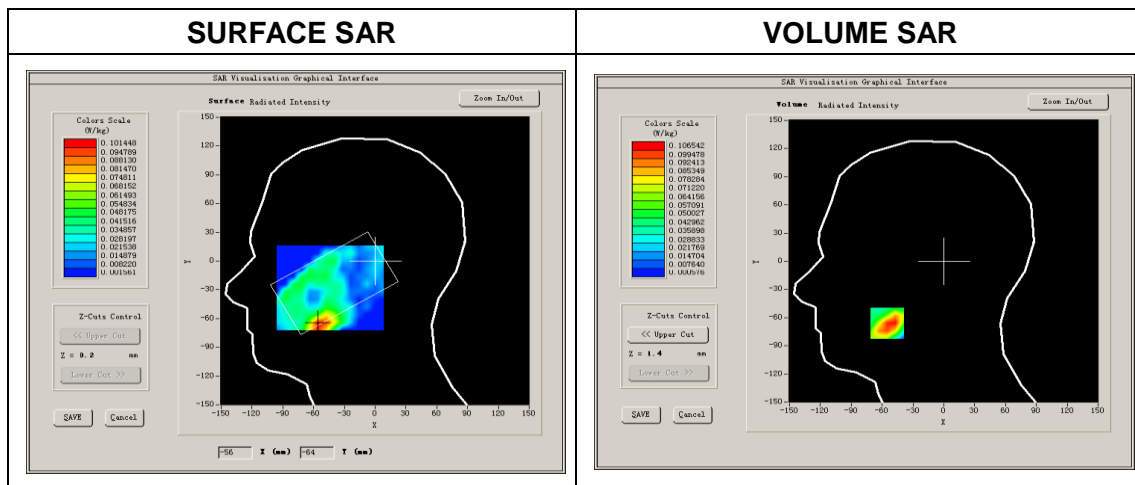
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

High Band SAR (Channel 9538):

Frequency (MHz)	1907.6
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	0.670000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Duty cycle:	1:1

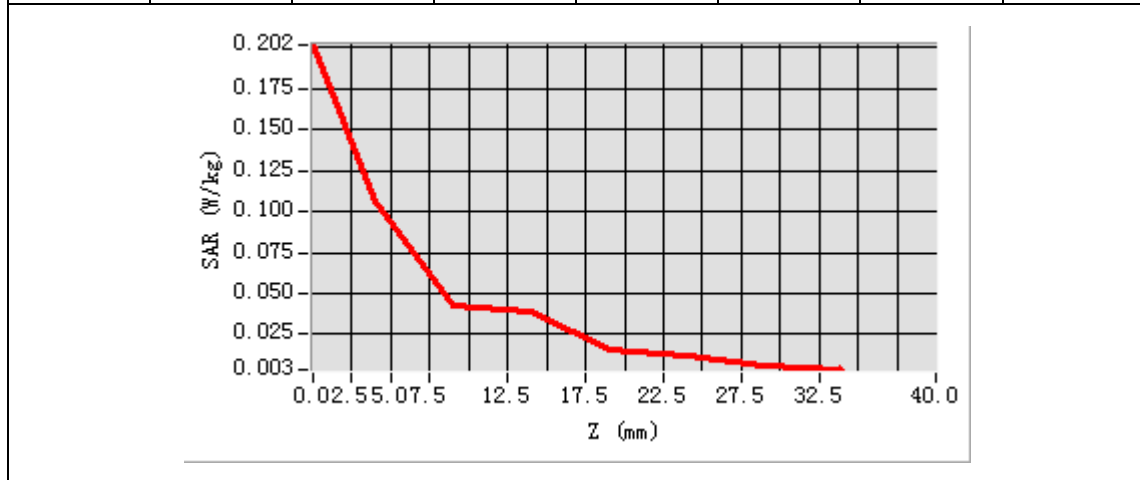


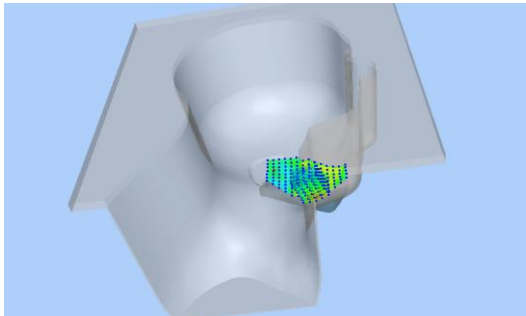
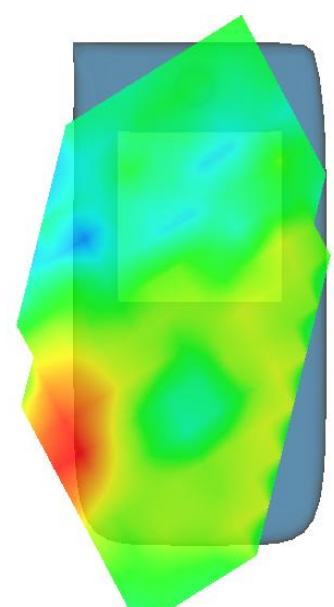
Maximum location: X=-55.00, Y=-66.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.053869
SAR 1g (W/Kg)	0.108569

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2016	0.1065	0.0426	0.0388	0.0153	0.0119	0.0055



3D screen shot	Hot spot position
	

MEASUREMENT 4

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.15

Measurement duration: 13 minutes 28 seconds

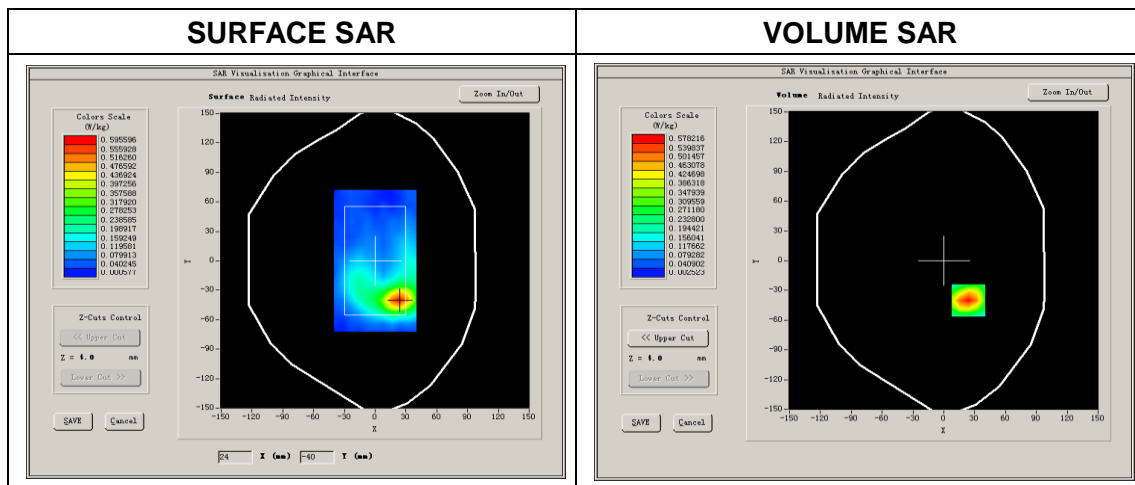
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

High Band SAR (Channel 9538):

Frequency (MHz)	1907.600000
Relative permittivity (real part)	53.285167
Conductivity (S/m)	1.515073
Power drift (%)	1.520711
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.71
Duty cycle:	1:1

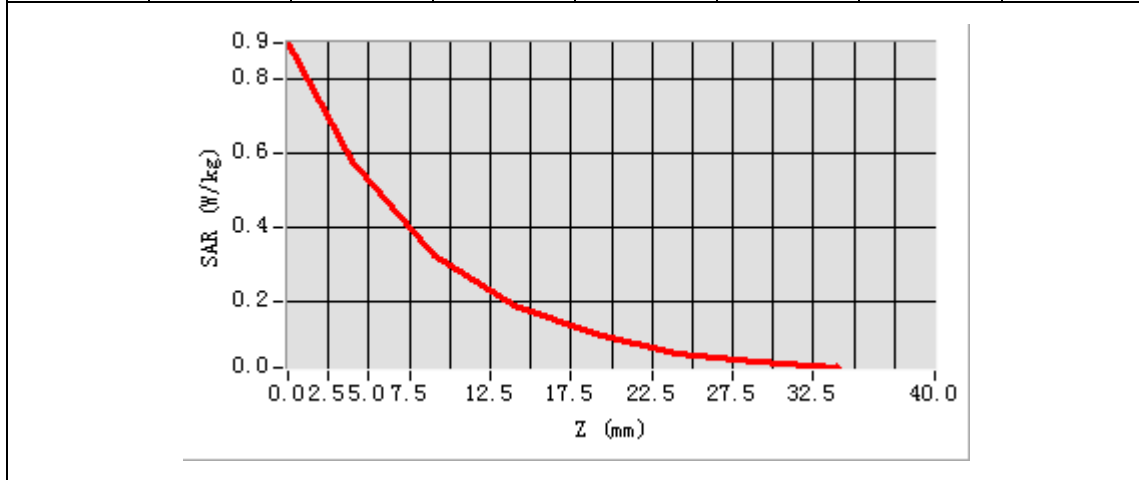


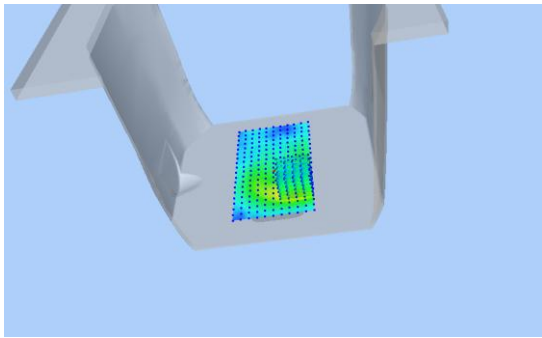
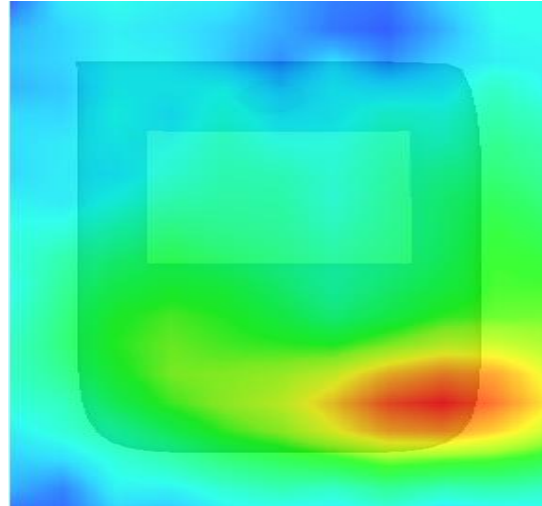
Maximum location: X=24.00, Y=-40.00

SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.282116
SAR 1g (W/Kg)	0.539496

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8962	0.5782	0.3248	0.1873	0.1092	0.0571	0.0369



3D screen shot	Hot spot position
	

MEASUREMENT 5

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

Measurement duration: 13 minutes 23 seconds

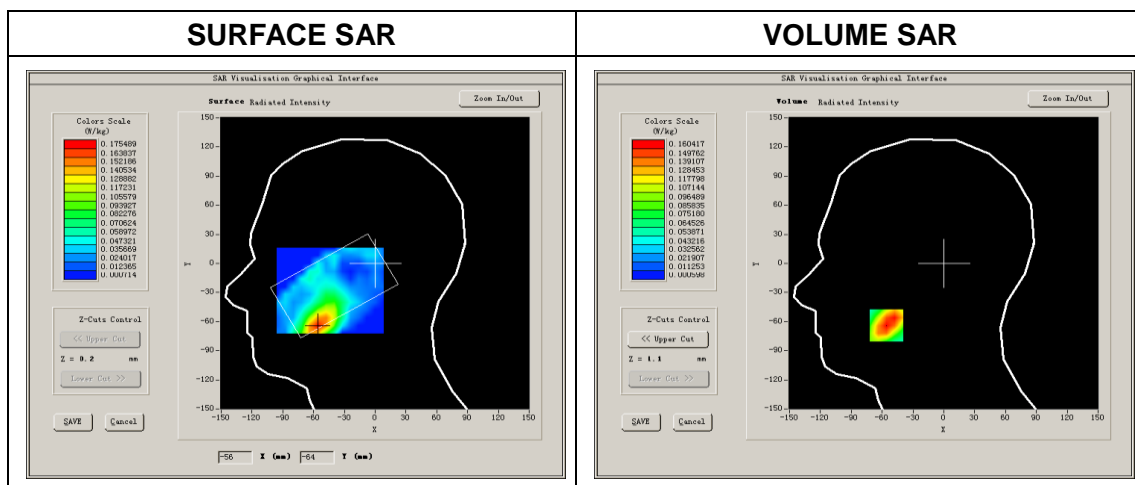
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Right head</u>
Device Position	<u>Cheek</u>
Band	<u>Band4 WCDMA1700</u>
Channels	<u>Low</u>
Signal	<u>WCDMA</u>

B. SAR Measurement Results

Low Band SAR (Channel 1312):

Frequency (MHz)	1712.400000
Relative permittivity (real part)	40.196477
Conductivity (S/m)	1.314283
Power drift (%)	3.020000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Duty cycle:	1:1

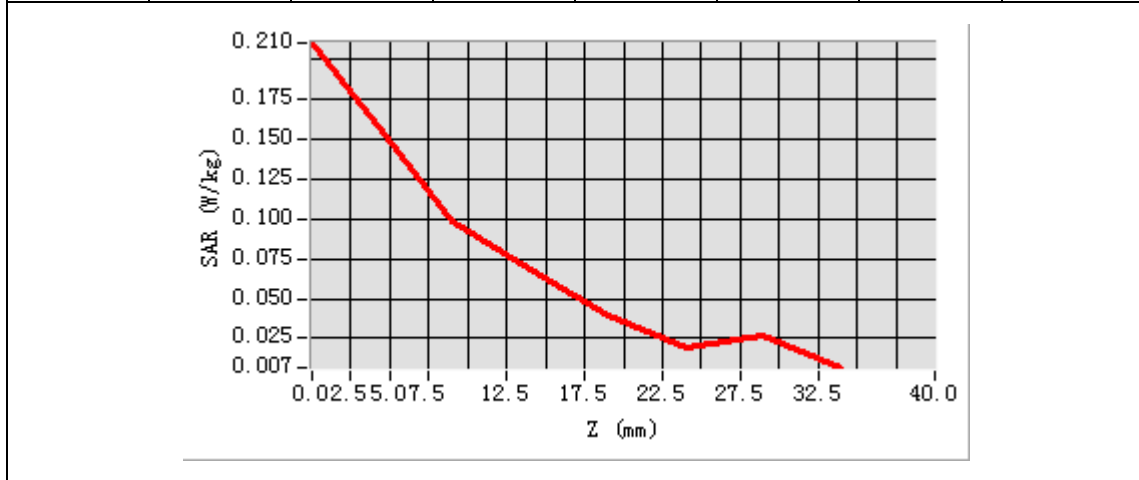


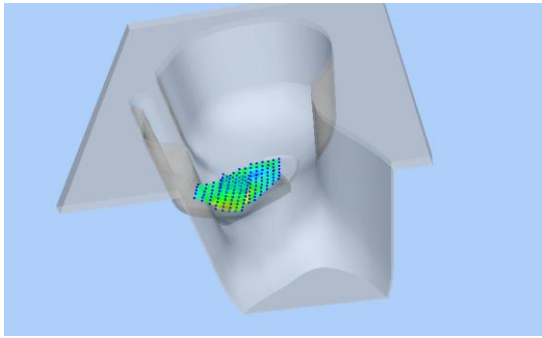
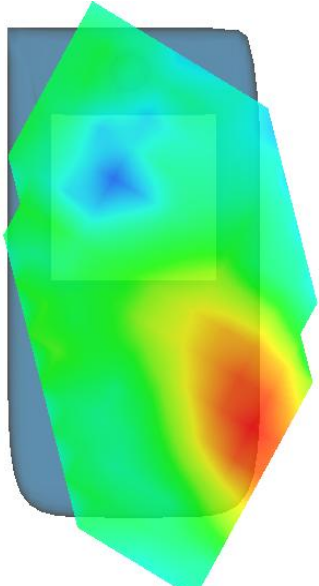
Maximum location: X=-56.00, Y=-64.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.015912
SAR 1g (W/Kg)	0.023185

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2099	0.1604	0.0987	0.0680	0.0391	0.0198	0.0268



3D screen shot	Hot spot position
	

MEASUREMENT 6

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

Measurement duration: 13 minutes 28 seconds

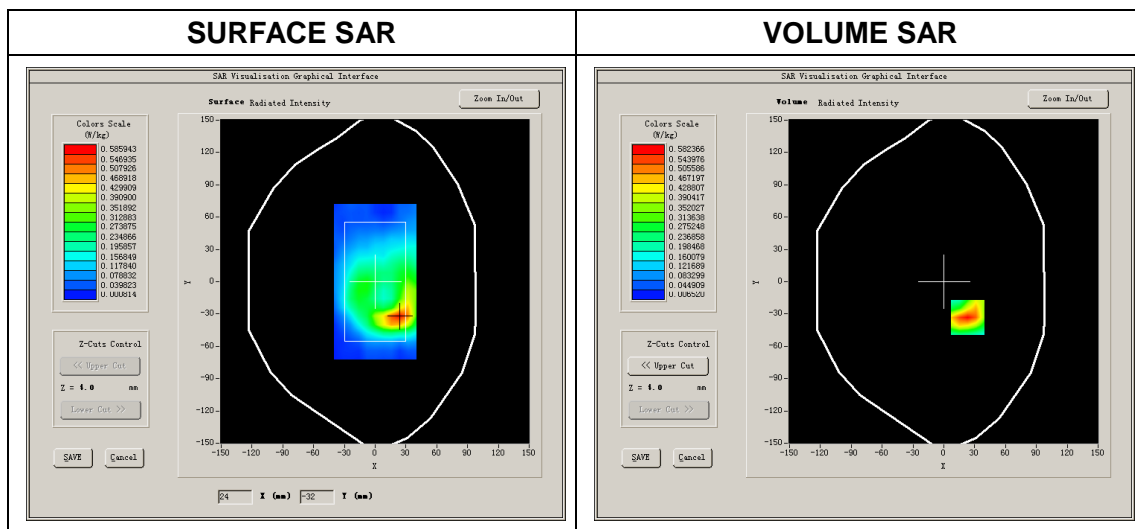
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4_WCDMA1700</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Low Band SAR (Channel 1312):

Frequency (MHz)	1712.400000
Relative permittivity (real part)	53.385167
Conductivity (S/m)	1.515073
Power drift (%)	1.520711
Ambient Temperature:	22.5°C
Liquid Temperature:	22.7°C
ConvF:	5.71
Duty cycle:	1:1

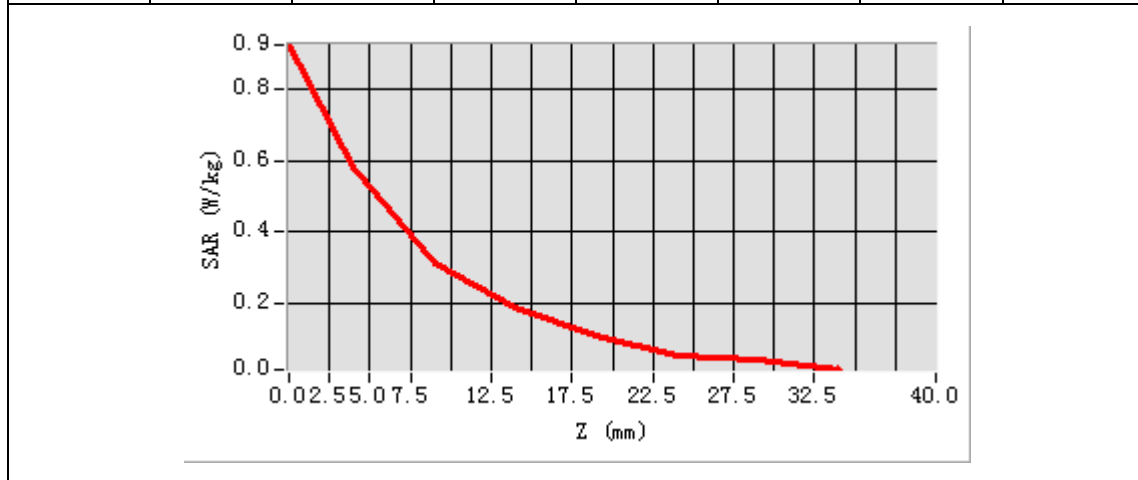


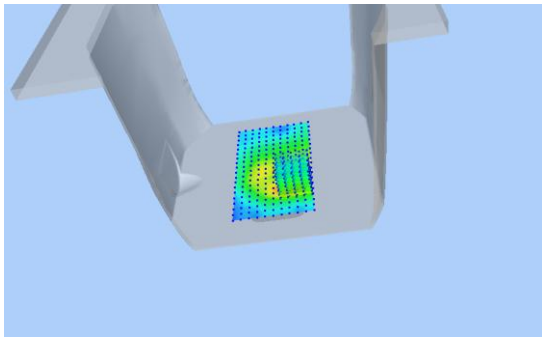
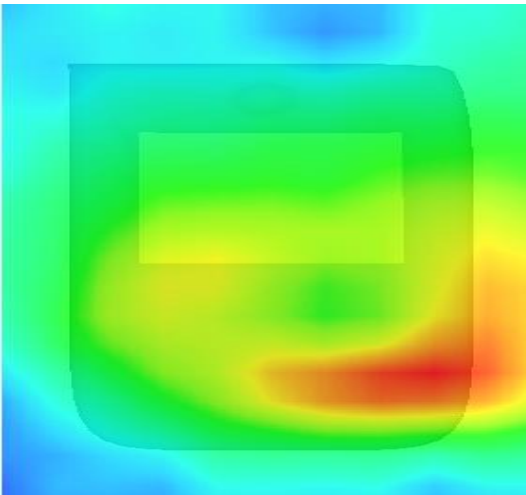
Maximum location: X=23.00, Y=-33.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.282913
SAR 1g (W/Kg)	0.541316

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9224	0.5824	0.3145	0.1882	0.1080	0.0547	0.0408



3D screen shot	Hot spot position
	

MEASUREMENT 7

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.16

Measurement duration: 13 minutes 17 seconds

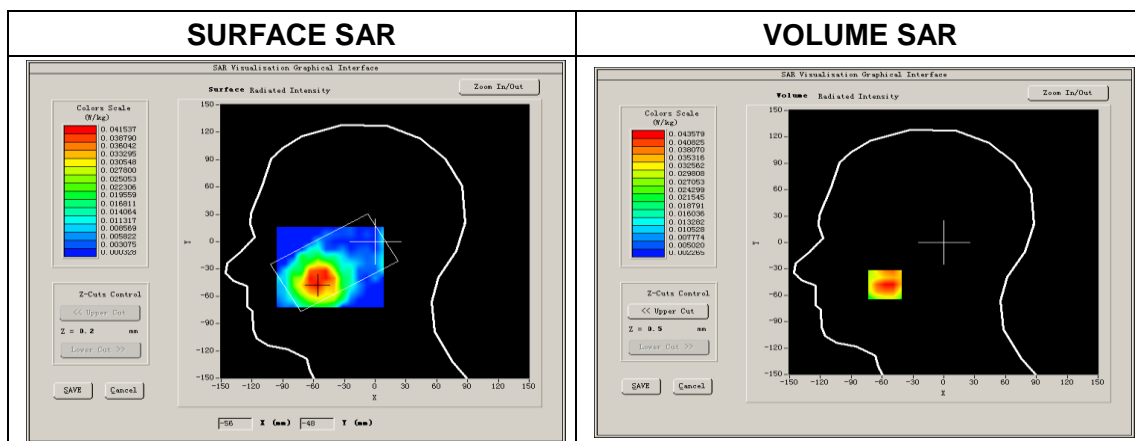
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Low Band SAR (Channel 4131):

Frequency (MHz)	826.200024
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.901453
Power drift (%)	0.670000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Duty cycle:	1:1

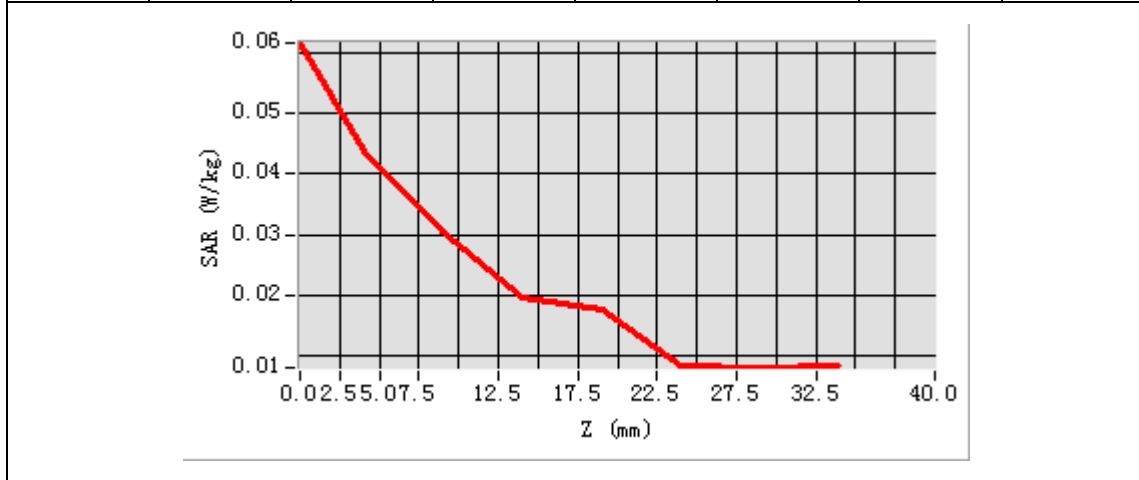


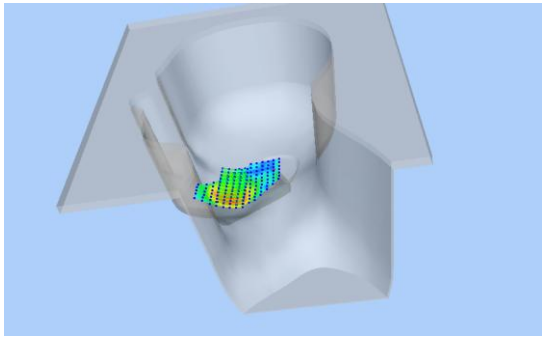
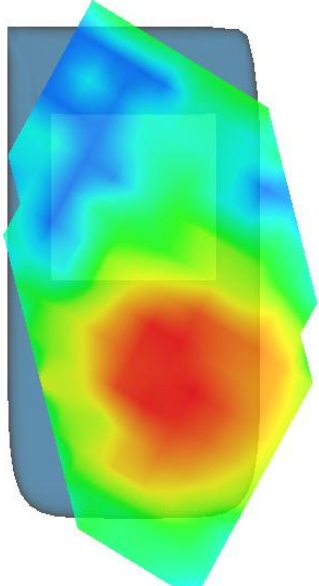
Maximum location: X=-57.00, Y=-48.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.028376
SAR 1g (W/Kg)	0.039981

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0615	0.0436	0.0305	0.0197	0.0176	0.0082	0.0081



3D screen shot	Hot spot position
	

MEASUREMENT 8

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.16

Measurement duration: 13 minutes 25 seconds

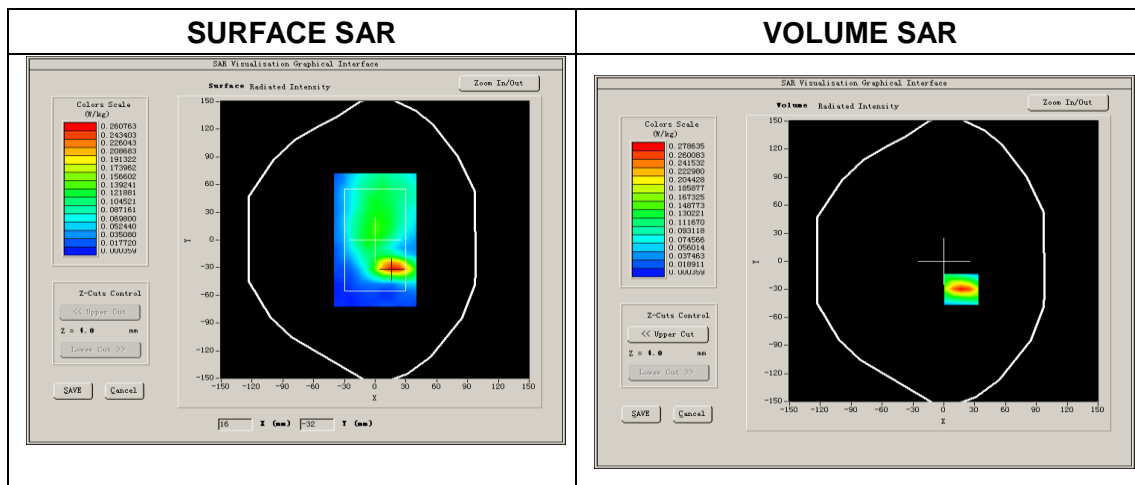
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>Band5_WCDMA850</u>
Channels	<u>Low</u>
Signal	<u>WCDMA</u>

B. SAR Measurement Results

Low Band SAR (Channel 4131):

Frequency (MHz)	826.200024
Relative permittivity (real part)	55.302291
Conductivity (S/m)	0.971718
Power drift (%)	0.971708
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.37
Duty cycle:	1:1

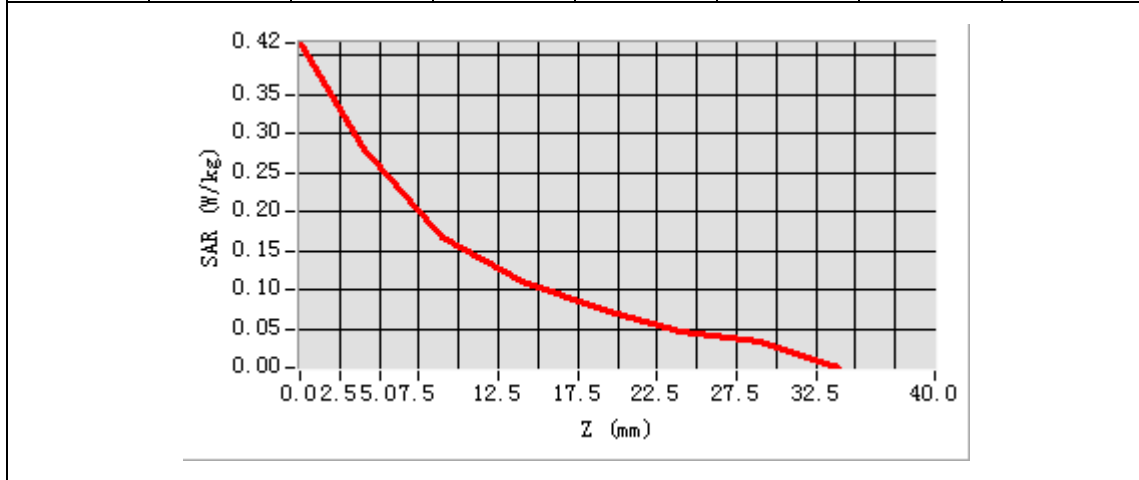


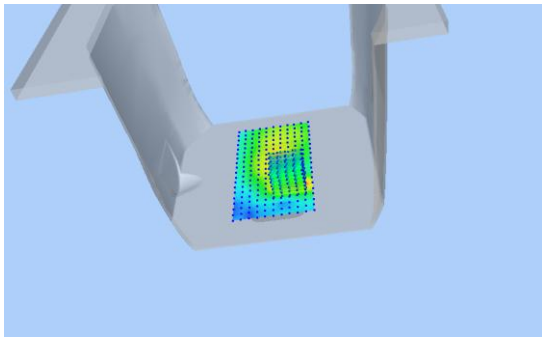
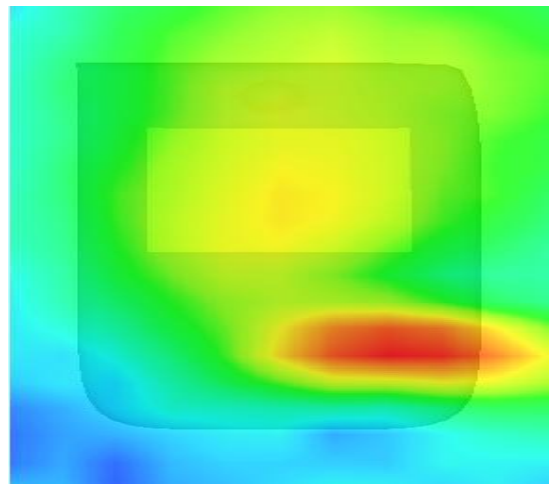
Maximum location: X=17.00, Y=-30.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.134779
SAR 1g (W/Kg)	0.253334

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4157	0.2786	0.1660	0.1096	0.0735	0.0477	0.0330



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 9

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

Measurement duration: 13 minutes 5 seconds

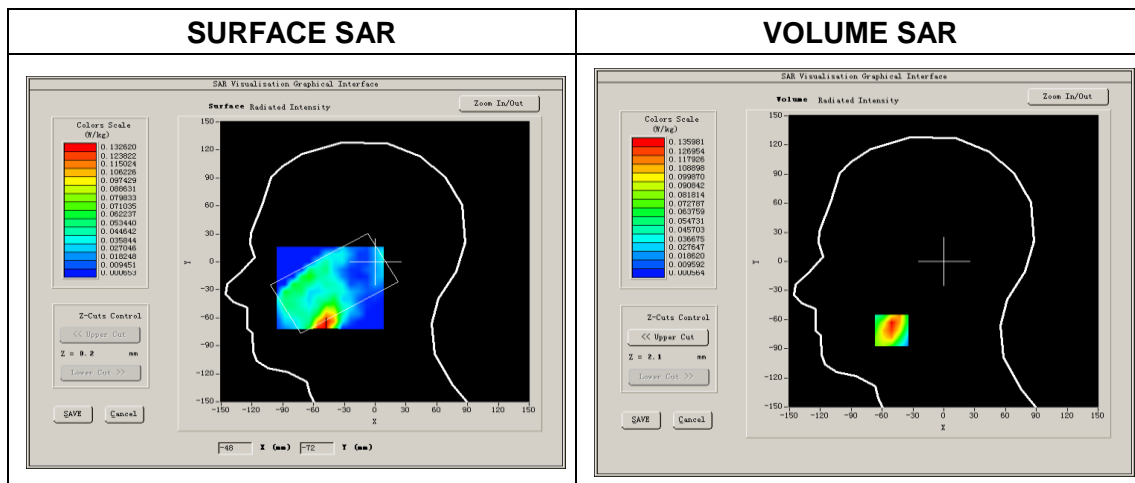
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 18900):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.400604
Power drift (%)	2.400000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Duty cycle:	1:1

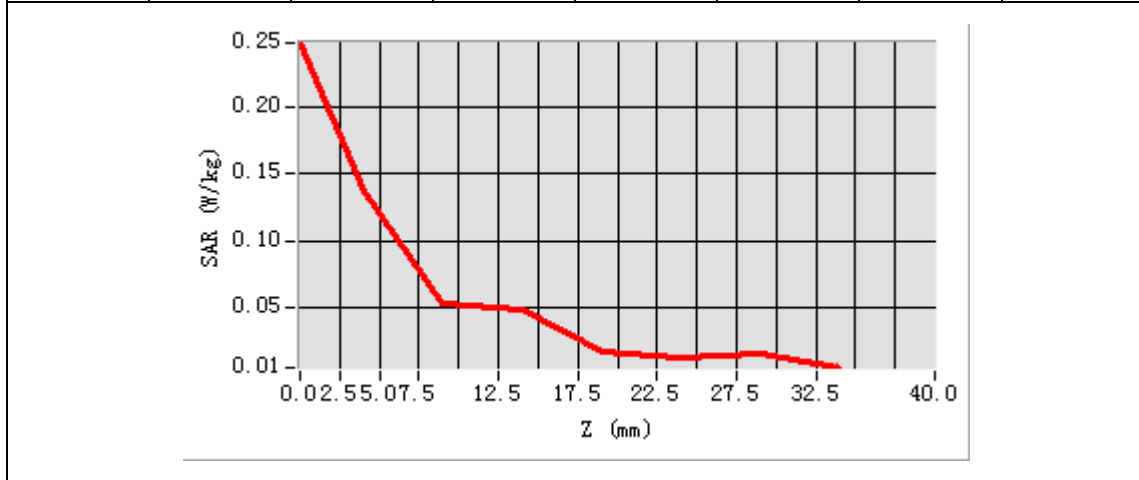


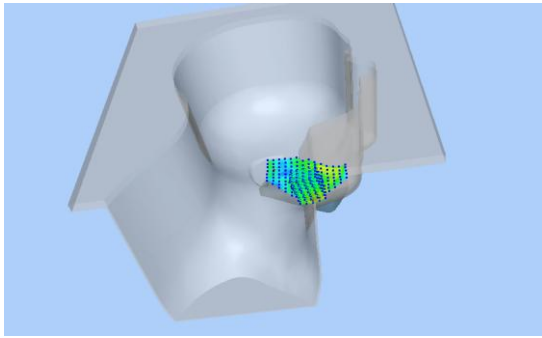
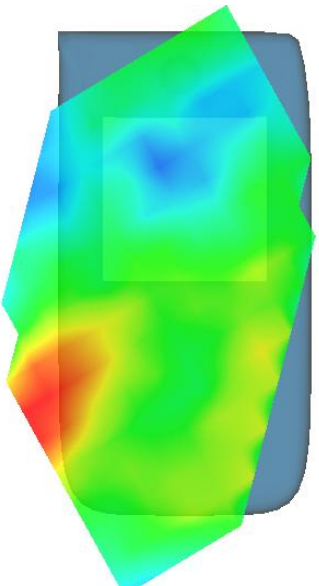
Maximum location: X=-51.00, Y=-71.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.066493
SAR 1g (W/Kg)	0.125468

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2470	0.1360	0.0526	0.0482	0.0178	0.0133	0.0152



3D screen shot	Hot spot position
	

MEASUREMENT 10

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

Measurement duration: 13 minutes 30 seconds

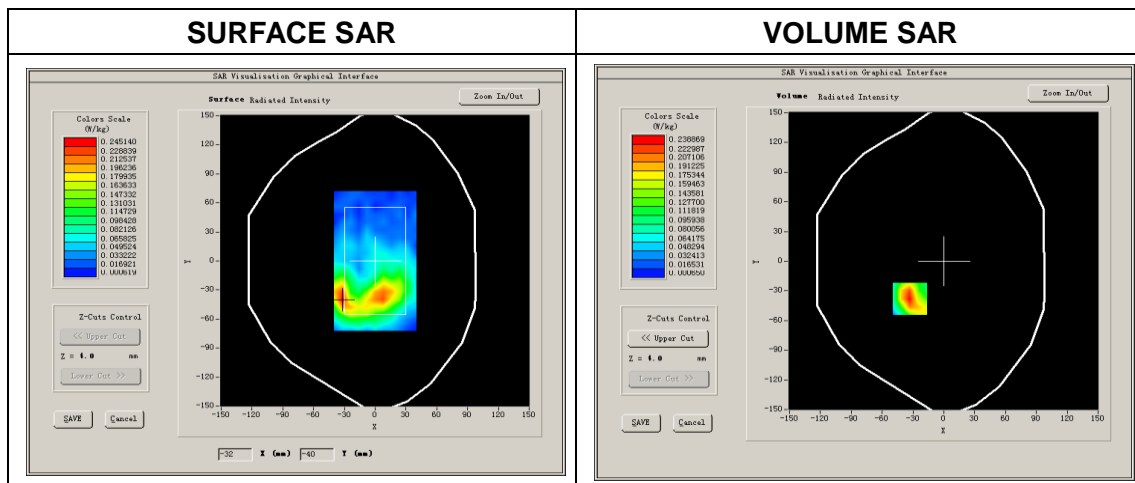
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 18900):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.295167
Conductivity (S/m)	1.515073
Power drift (%)	-0.820000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.38
Duty cycle:	1:1

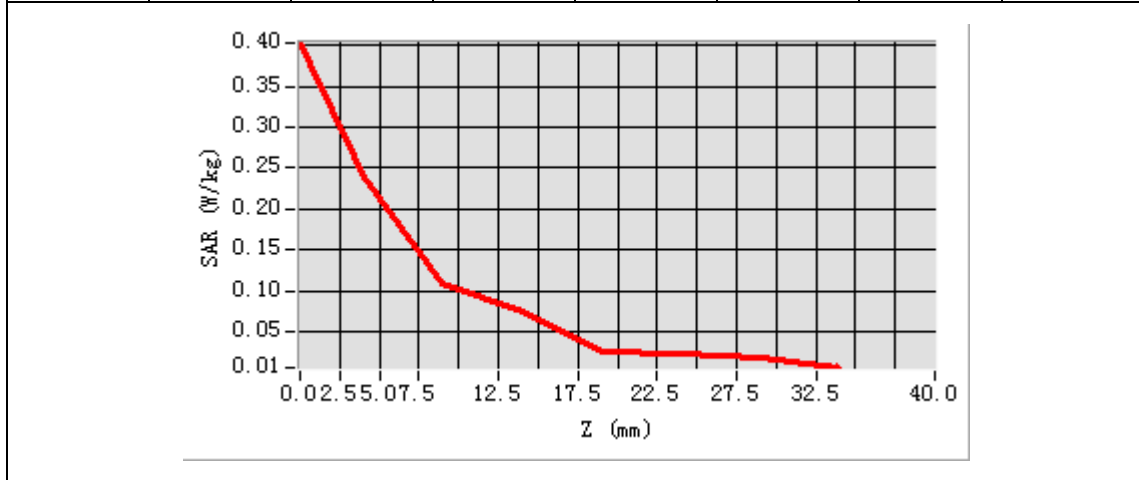


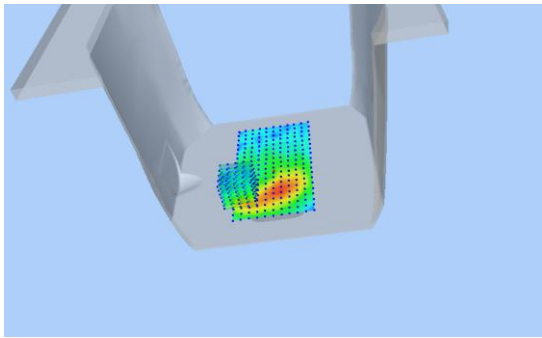
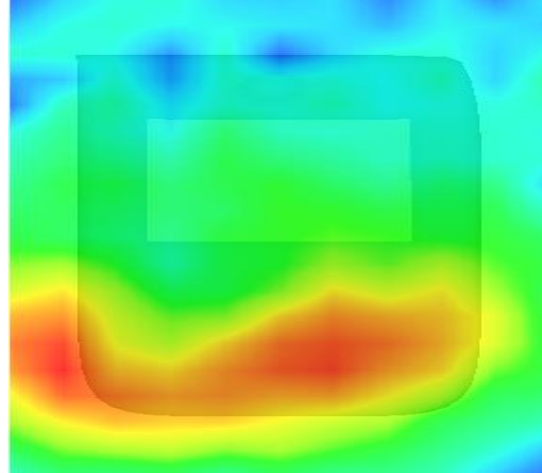
Maximum location: X=-33.00, Y=-38.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.108365
SAR 1g (W/Kg)	0.226619

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4031	0.2389	0.1079	0.0731	0.0243	0.0232	0.0176



3D screen shot	Hot spot position
	

MEASUREMENT 11

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

Measurement duration: 13 minutes 52 seconds

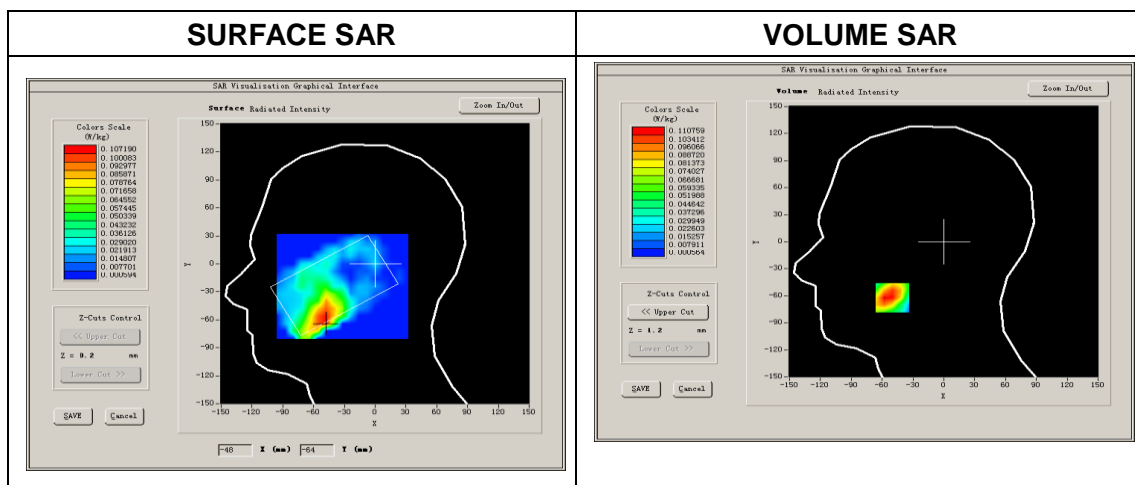
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

High Band SAR (Channel 20300):

Frequency (MHz)	1745.000000
Relative permittivity (real part)	40.120012
Conductivity (S/m)	1.320043
Power drift (%)	-3.450000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Duty cycle:	1:1

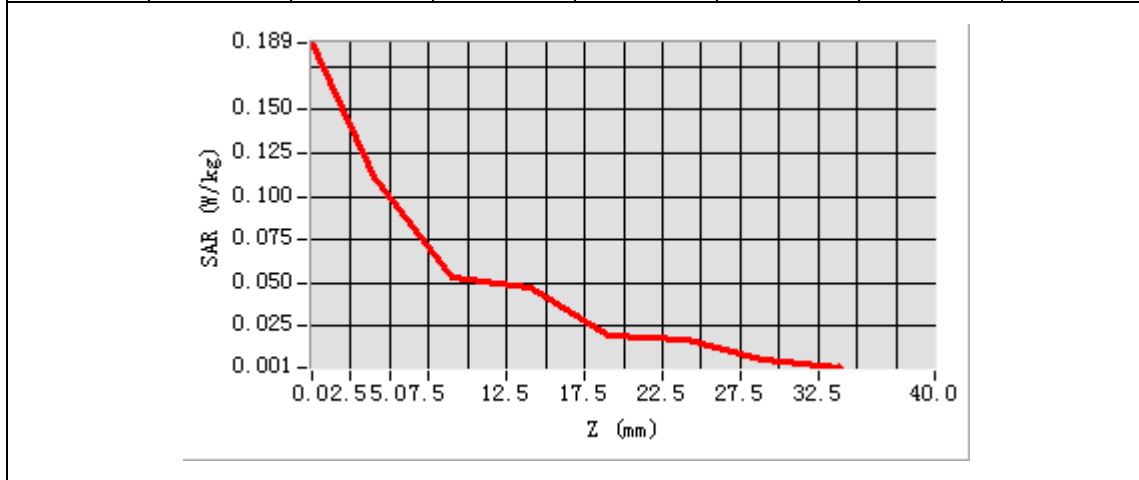


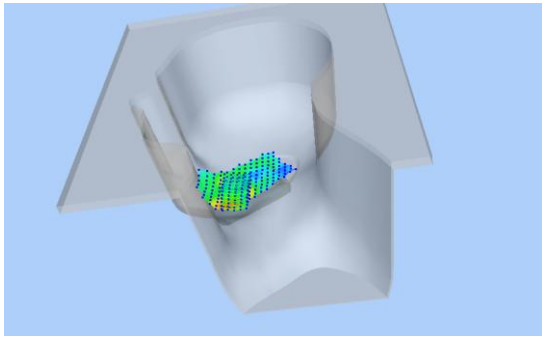
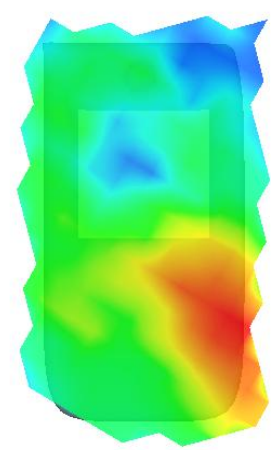
Maximum location: X=-50.00, Y=-62.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.059485
SAR 1g (W/Kg)	0.101879

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1887	0.1108	0.0536	0.0478	0.0190	0.0172	0.0058



3D screen shot	Hot spot position
	

MEASUREMENT 12

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

Measurement duration: 13 minutes 26 seconds

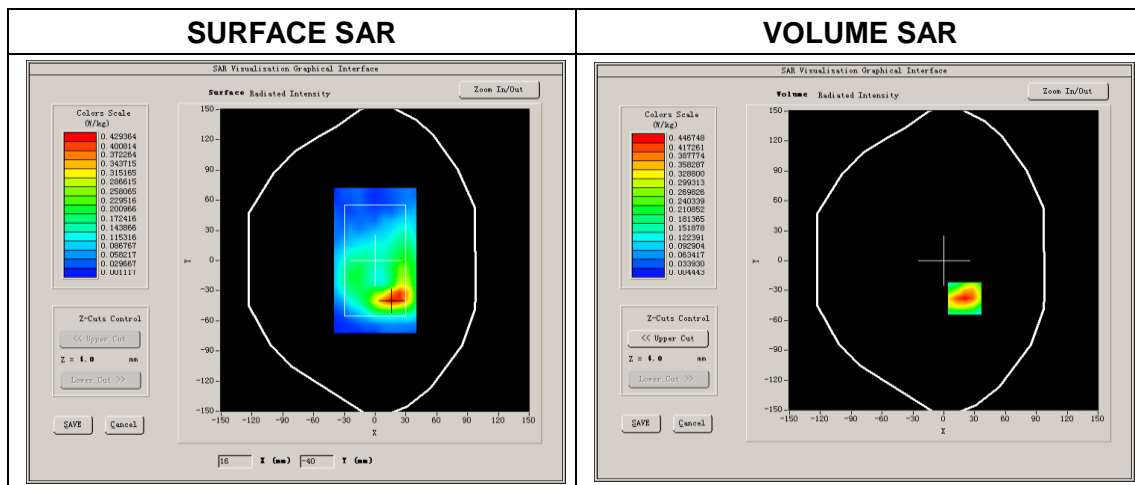
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

High Band SAR (Channel 20300):

Frequency (MHz)	1745.000000
Relative permittivity (real part)	53.385166
Conductivity (S/m)	1.515073
Power drift (%)	-0.820000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.7°C
ConvF:	5.38
Duty cycle:	1:1

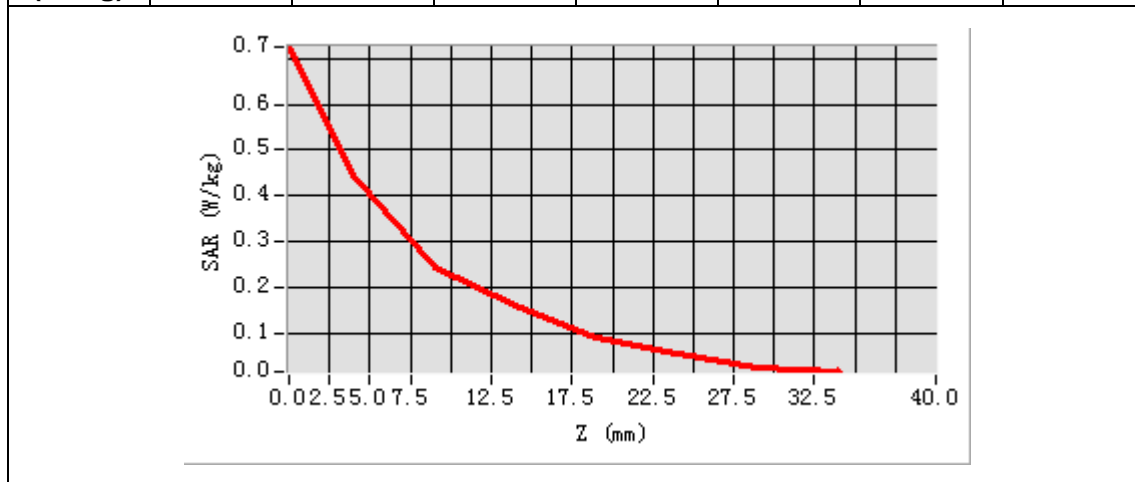


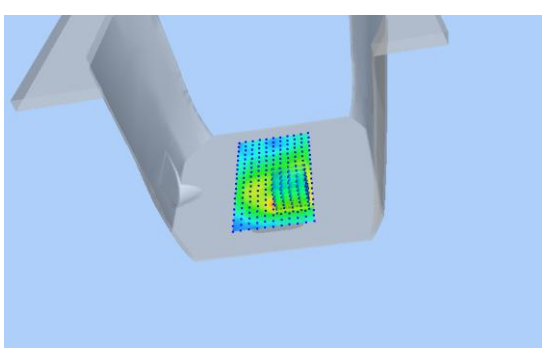
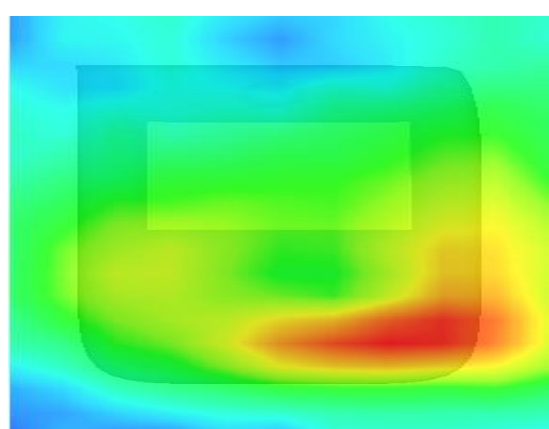
Maximum location: X=20.00, Y=-38.00

SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.225980
SAR 1g (W/Kg)	0.427943

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7246	0.4467	0.2451	0.1612	0.0942	0.0558	0.0269



3D screen shot	Hot spot position
	

MEASUREMENT 13

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.18

Measurement duration: 13 minutes 7 seconds

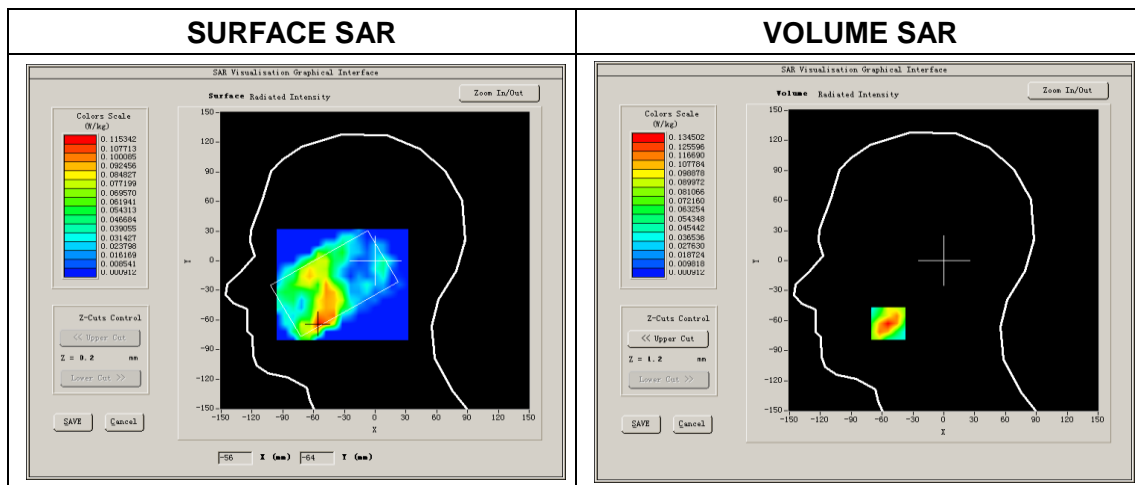
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Low Band SAR (Channel 20850):

Frequency (MHz)	2510.000000
Relative permittivity (real part)	39.035116
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.4°C
ConvF:	4.74
Duty cycle:	1:1

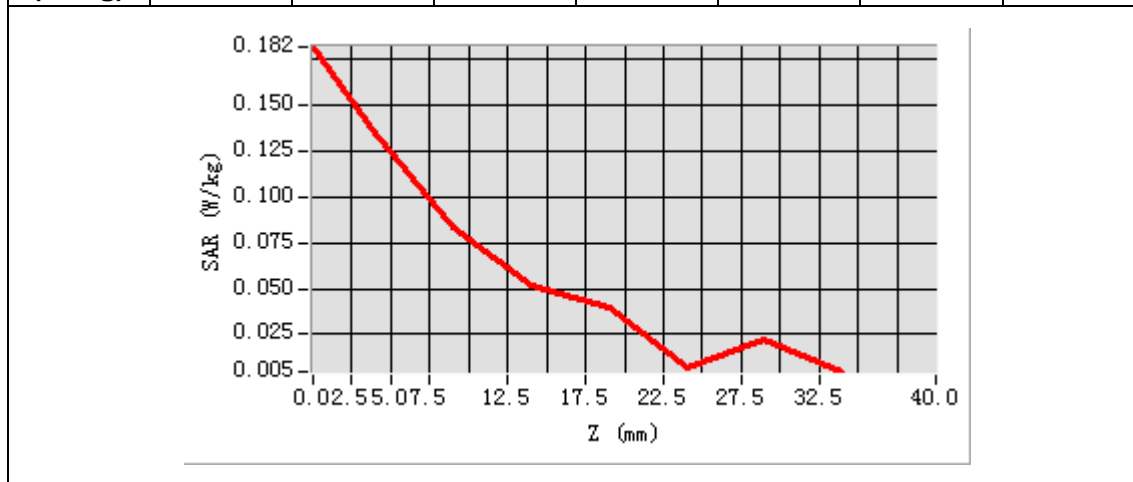


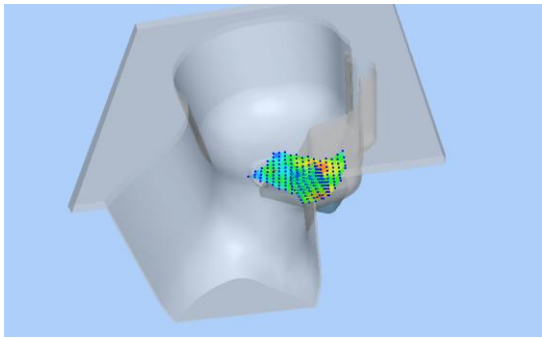
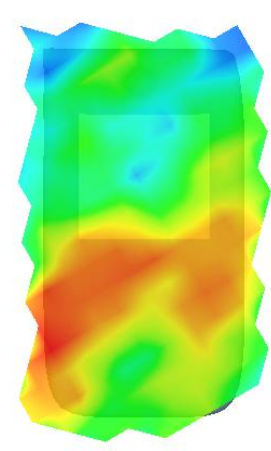
Maximum location: X=-54.00, Y=-63.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.064621
SAR 1g (W/Kg)	0.125023

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1821	0.1345	0.0834	0.0511	0.0402	0.0066	0.0217



3D screen shot	Hot spot position
	

MEASUREMENT 14

Type: Phone measurement (Complete)
 Area scan resolution: dx=8mm,dy=8mm
 Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
 Date of measurement: 2017.11.18
 Measurement duration: 13 minutes 30 seconds

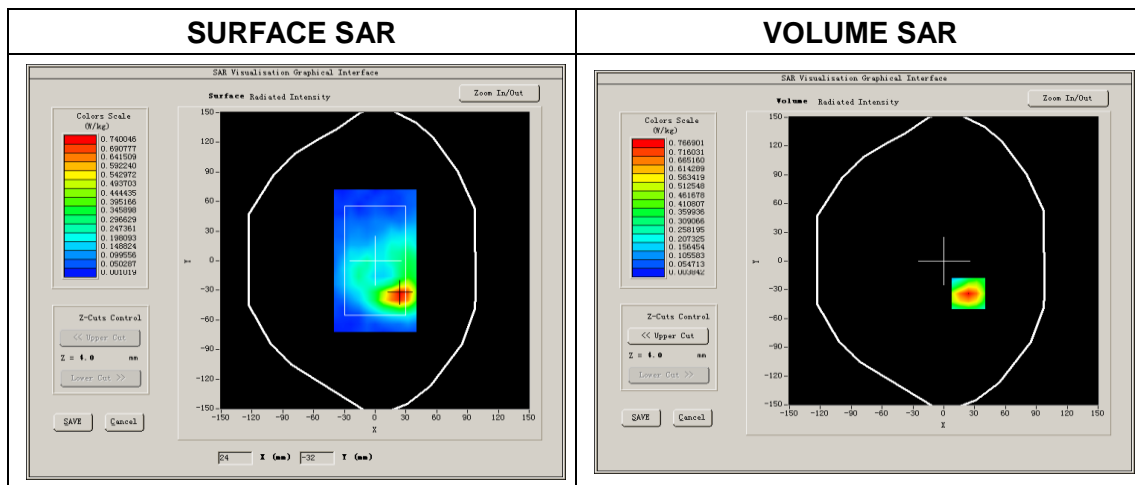
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Low Band SAR (Channel 20850):

Frequency (MHz)	2510.000000
Relative permittivity (real part)	52.362564
Conductivity (S/m)	2.105256
Power drift (%)	18.500000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.4°C
ConvF:	4.93
Duty cycle:	1:1

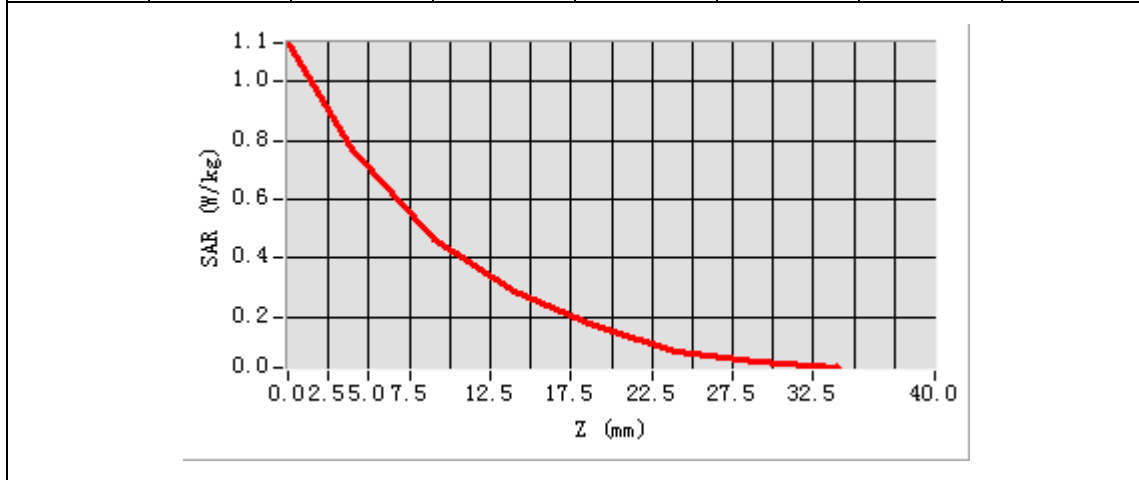


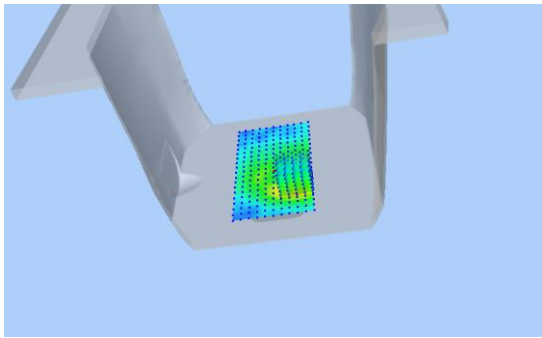
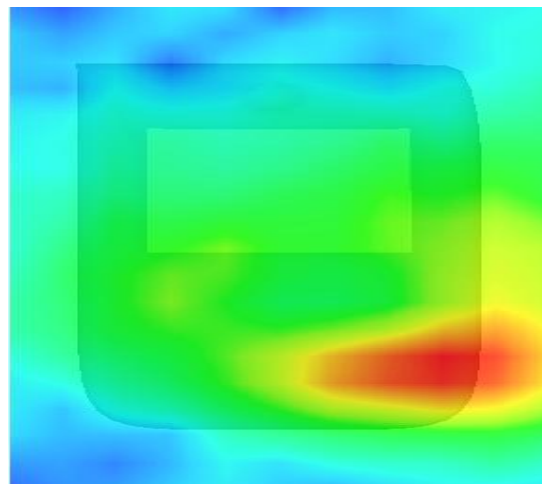
Maximum location: X=24.00, Y=-34.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.383966
SAR 1g (W/Kg)	0.716700

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1307	0.7669	0.4623	0.2824	0.1661	0.0808	0.0456



3D screen shot	Hot spot position
	

MEASUREMENT 15

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.12.04

Measurement duration: 13 minutes 32 seconds

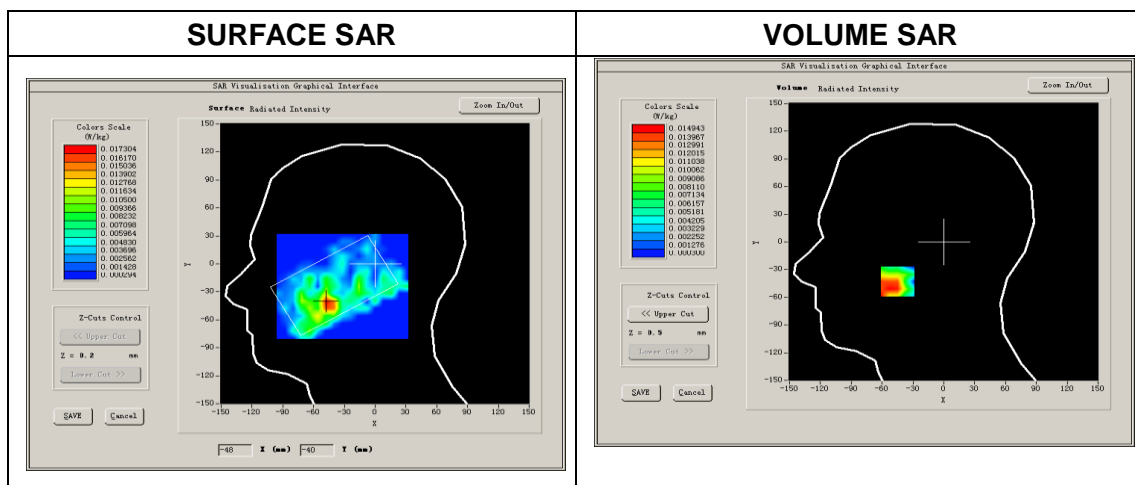
A. Experimental conditions.

<u>Phantom File</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 23095):

Frequency (MHz)	707.500000
Relative permittivity (real part)	41.571142
Conductivity (S/m)	0.866329
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	6.44
Duty cycle:	1:1

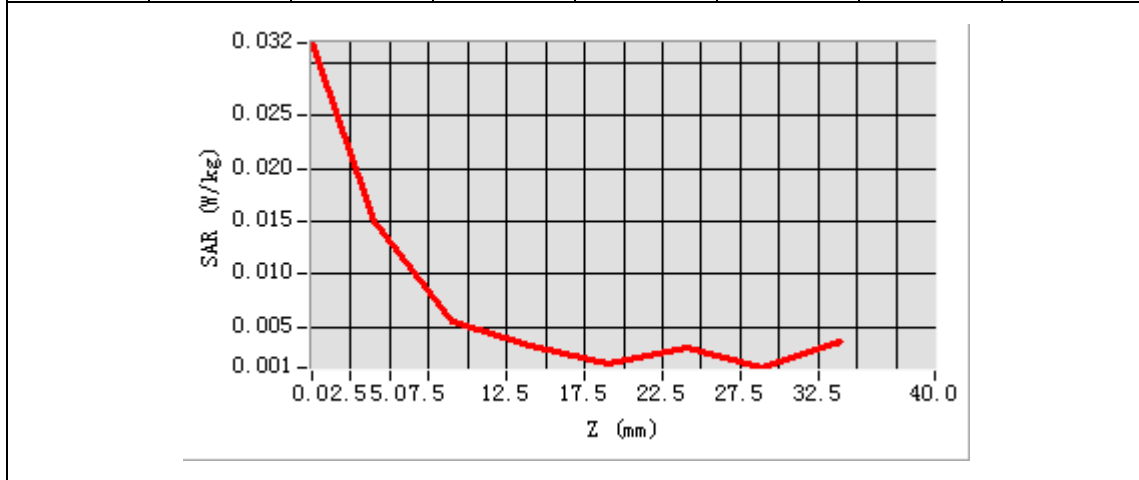


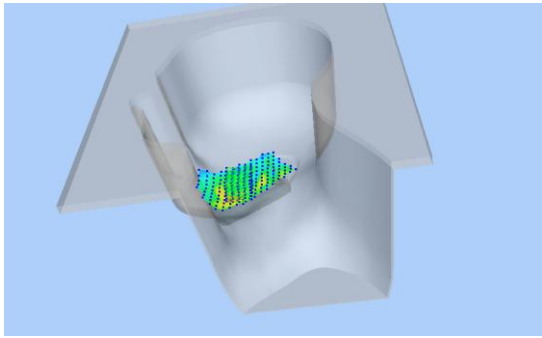
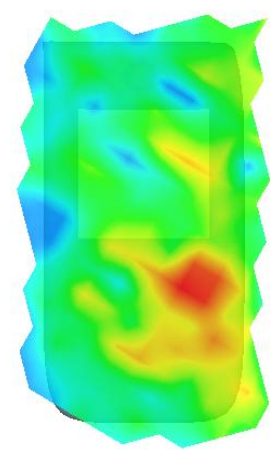
Maximum location: X=-45.00, Y=-43.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.008848
SAR 1g (W/Kg)	0.016268

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0319	0.0149	0.0055	0.0032	0.0015	0.0030	0.0012



3D screen shot	Hot spot position
	

MEASUREMENT 16

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.12.04

Measurement duration: 13 minutes 28 seconds

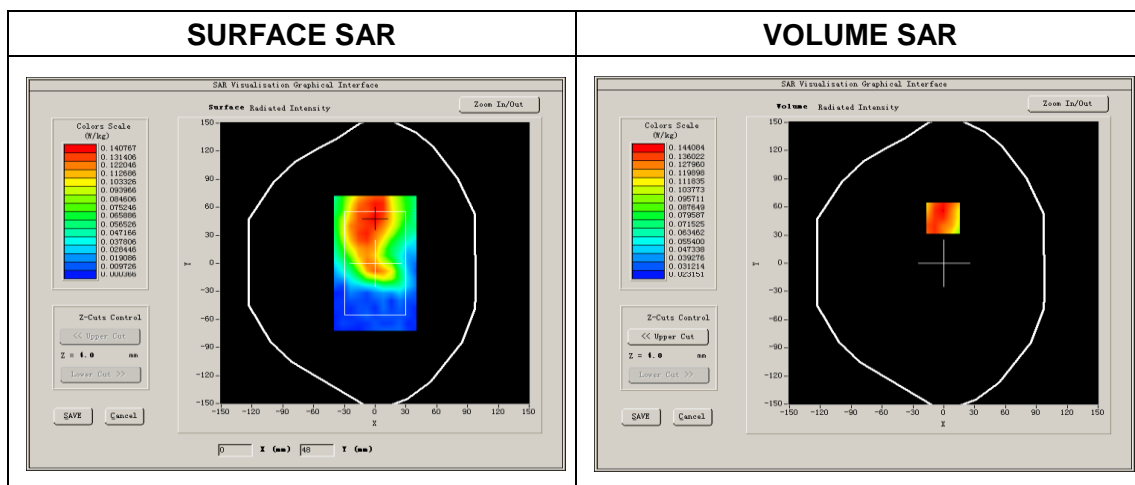
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 23095):

Frequency (MHz)	707.500000
Relative permittivity (real part)	55.452642
Conductivity (S/m)	0.938128
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	6.68
Duty cycle:	1:1

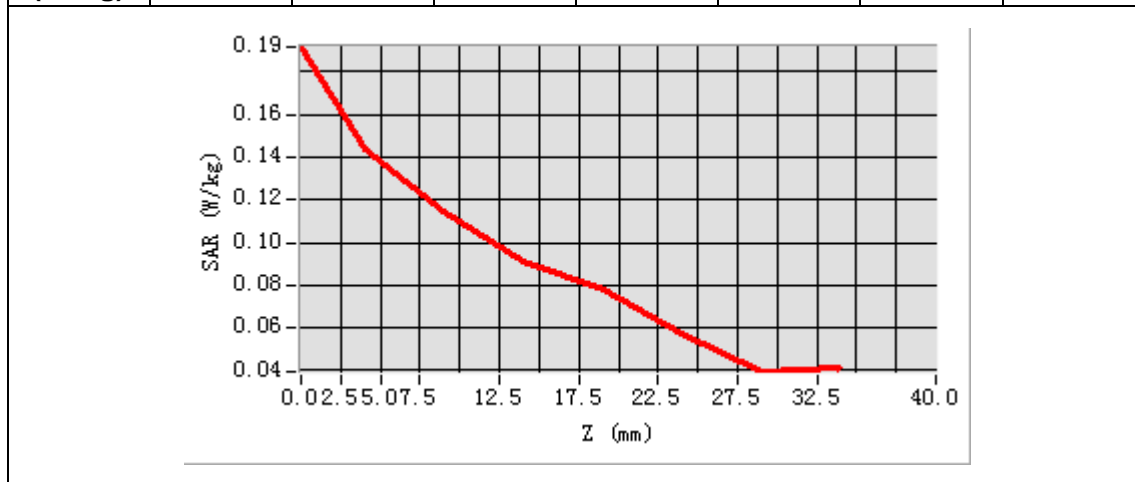


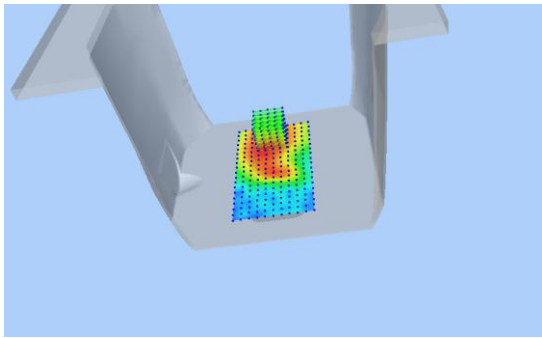
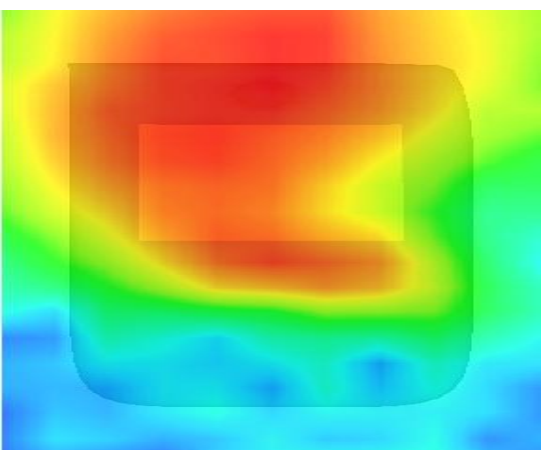
Maximum location: X=-1.00, Y=48.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.112672
SAR 1g (W/Kg)	0.145578

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1917	0.1441	0.1149	0.0915	0.0780	0.0572	0.0394



3D screen shot	Hot spot position
	

MEASUREMENT 17

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.12.04

Measurement duration: 13 minutes 55 seconds

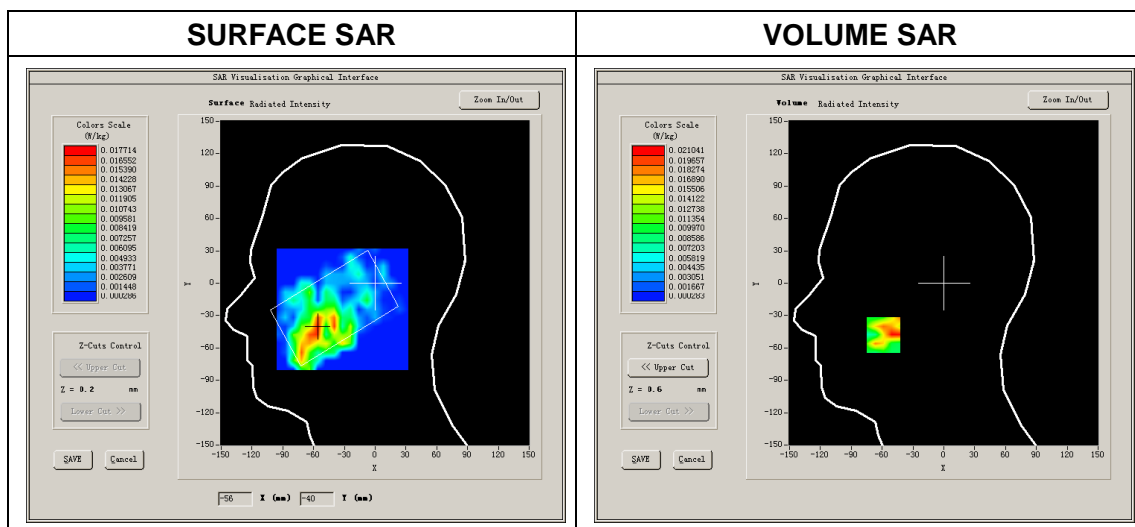
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Right head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 17</u>
Channels	<u>Low</u>
Signal	<u>LTE</u>

B. SAR Measurement Results

Low Band SAR (Channel 23780):

Frequency (MHz)	709.000000
Relative permittivity (real part)	41.560032
Conductivity (S/m)	0.872439
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	6.44
Duty cycle:	1:1

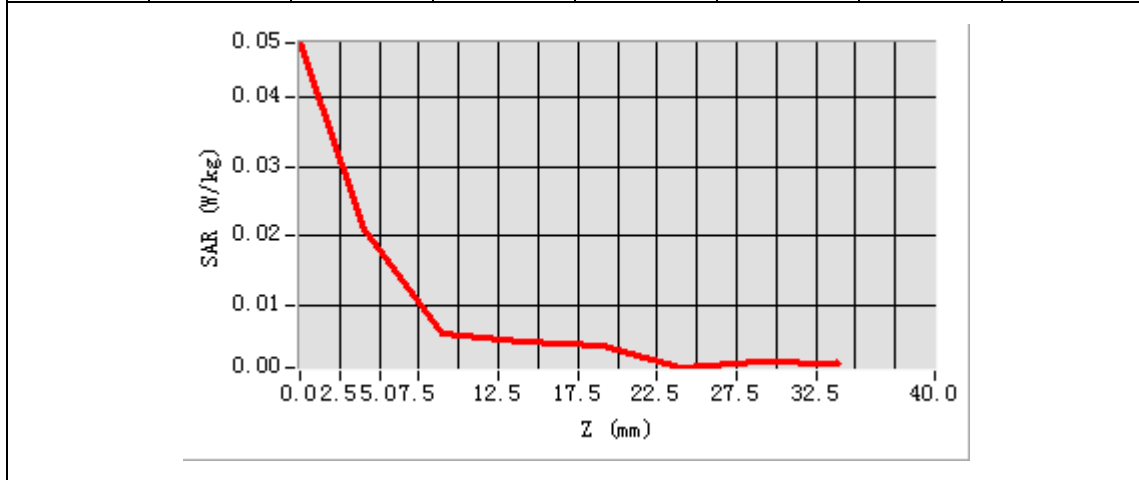


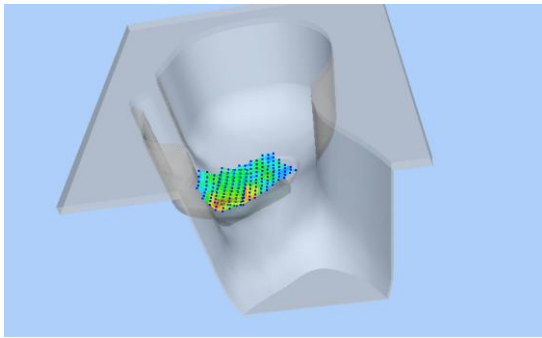
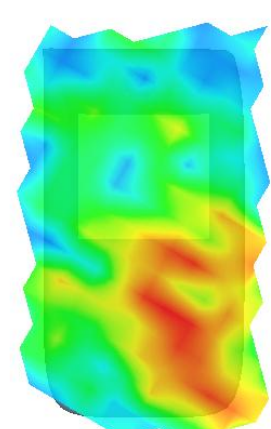
Maximum location: X=-39.00, Y=-2.00

SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.011527
SAR 1g (W/Kg)	0.022514

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0478	0.0210	0.0059	0.0047	0.0042	0.0010	0.0019



3D screen shot	Hot spot position
	

MEASUREMENT 18

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.12.04

Measurement duration: 13 minutes 27 seconds

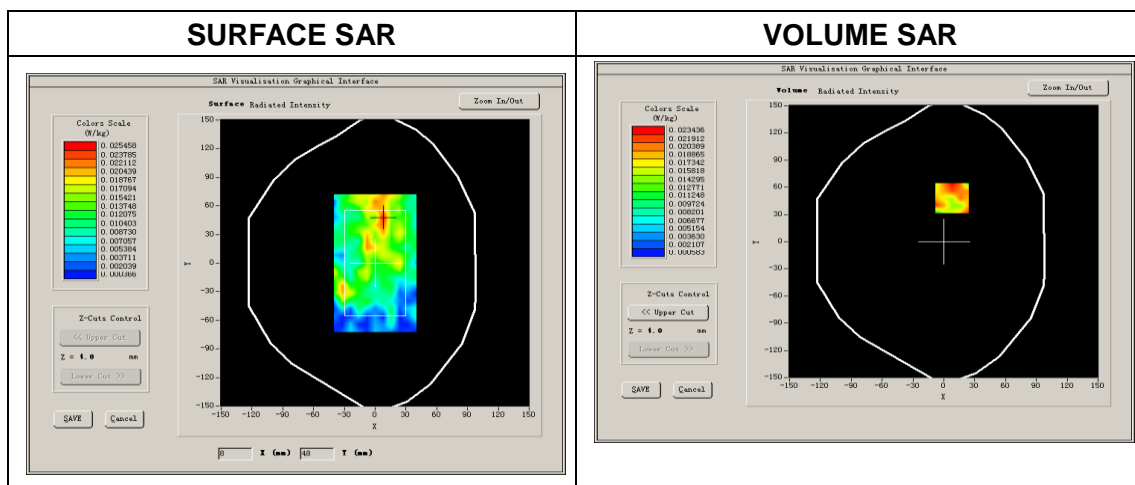
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Low Band SAR (Channel 23780):

Frequency (MHz)	709.000000
Relative permittivity (real part)	55.441223
Conductivity (S/m)	0.945244
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.68
Duty cycle:	1:1

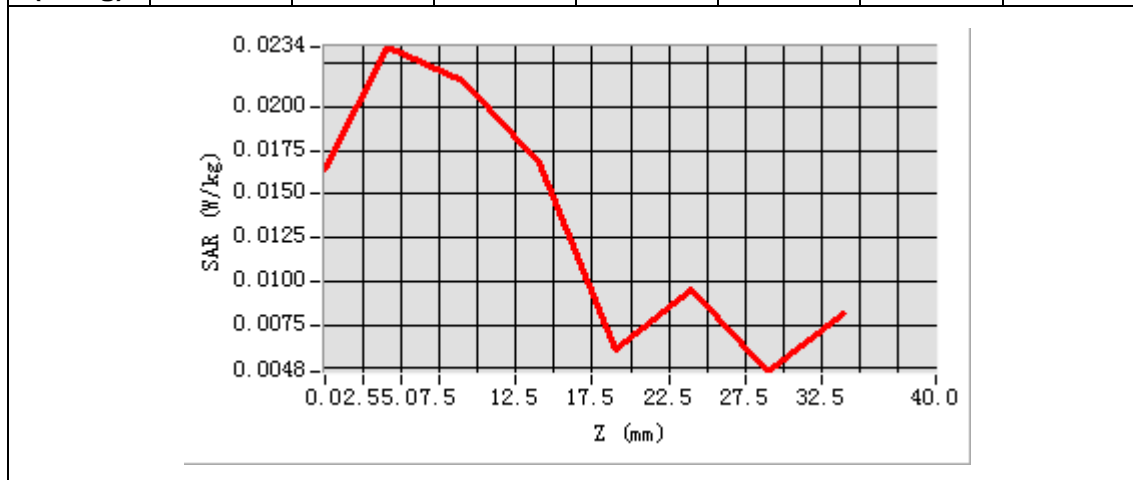


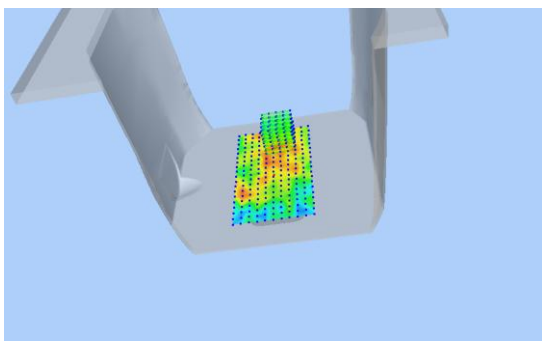
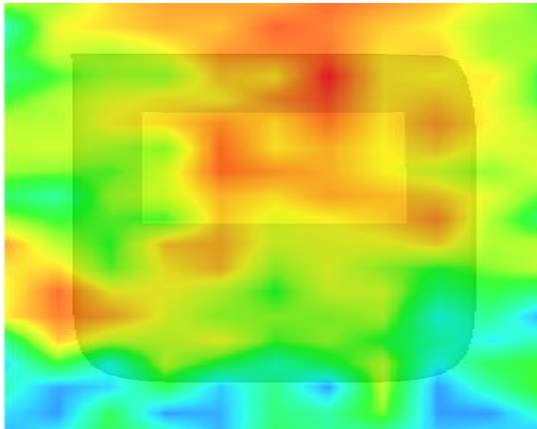
Maximum location: X=8.00, Y=48.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.015711
SAR 1g (W/Kg)	0.023005

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0165	0.0234	0.0215	0.0168	0.0060	0.0095	0.0048



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 19

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.17

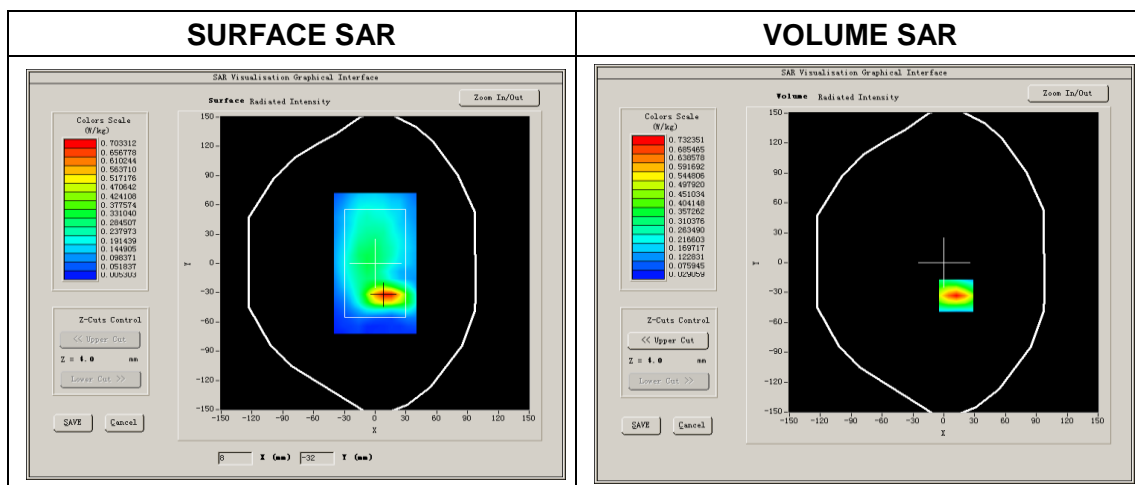
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</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>High</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	836.600012
Relative permittivity (real part)	55.282291
Conductivity (S/m)	0.971718
Power drift (%)	2.360000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.37
Duty cycle:	1:2.08

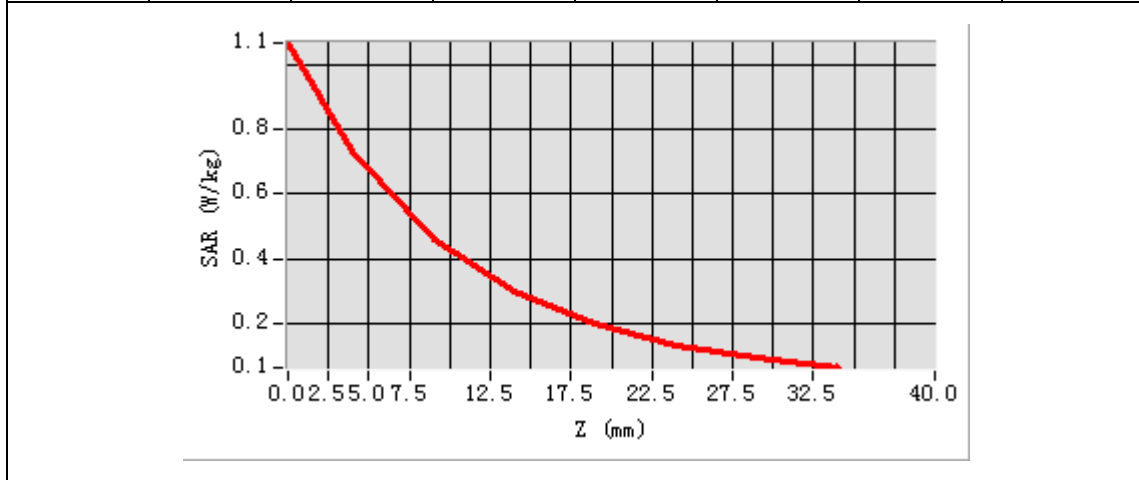


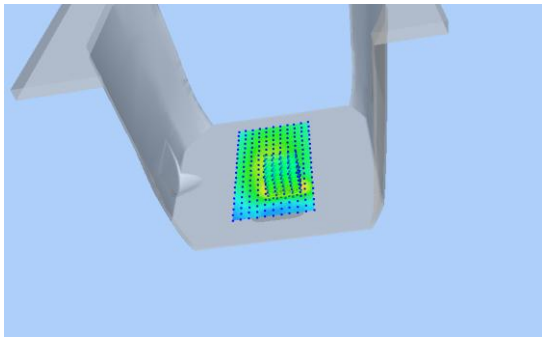
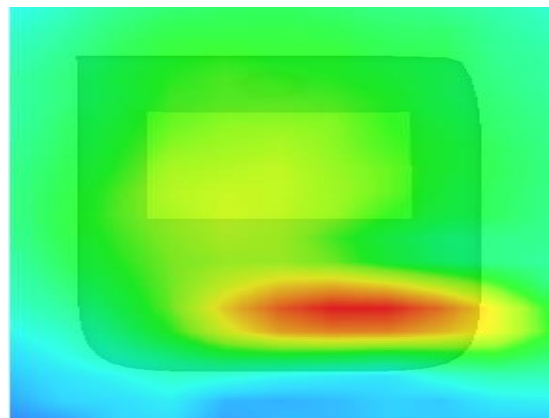
Maximum location: X=12.00, Y=-33.00

SAR Peak: 1.06 W/kg

SAR 10g (W/Kg)	0.364089
SAR 1g (W/Kg)	0.664099

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0687	0.7324	0.4562	0.2984	0.1951	0.1305	0.0893



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 20

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.11.15

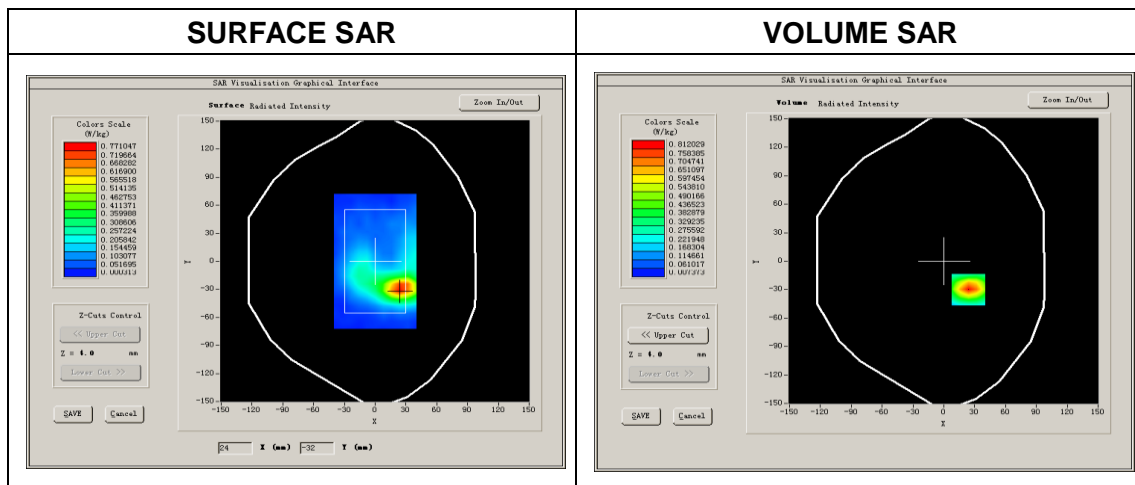
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>GSM1900</u>
Channels	<u>High</u>
Signal	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	1909.800000
Relative permittivity (real part)	53.285167
Conductivity (S/m)	1.515073
Power drift (%)	1.521111
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.71
Duty cycle:	1:2.08

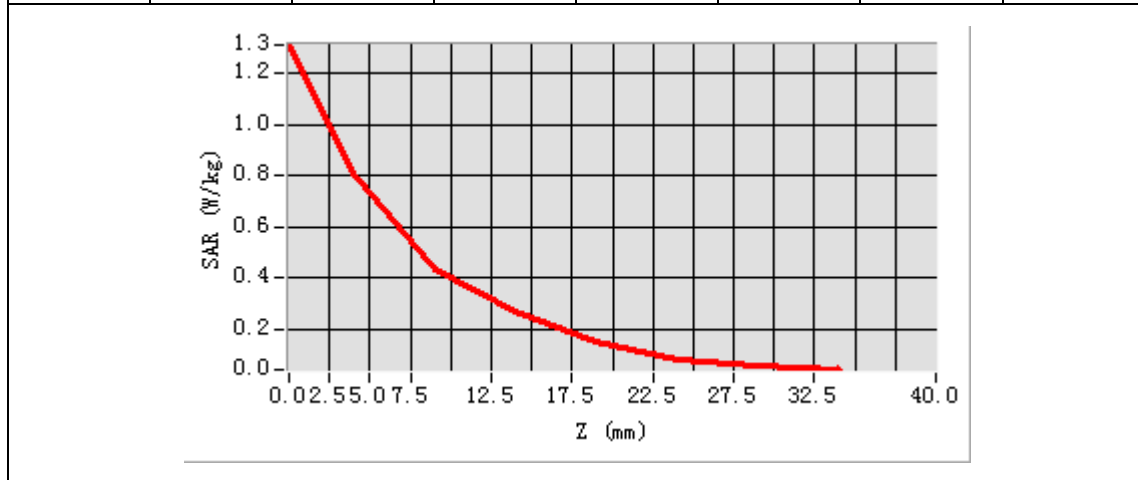


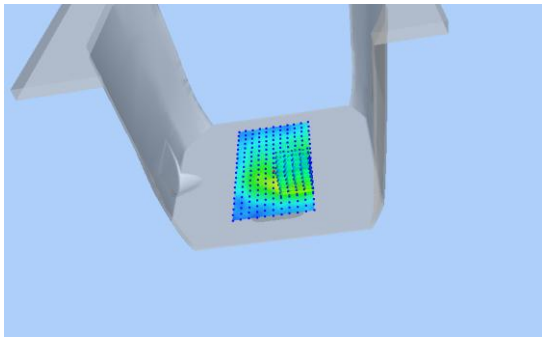
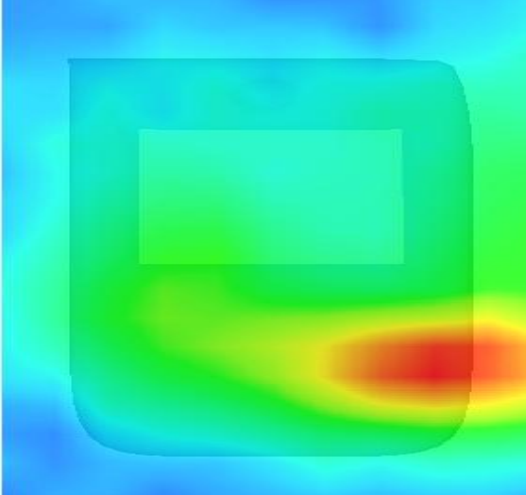
Maximum location: X=24.00, Y=-30.00

SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.380796
SAR 1g (W/Kg)	0.728080

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3096	0.8120	0.4312	0.2716	0.1514	0.0801	0.0594



3D screen shot	Hot spot position
	

MEASUREMENT 21

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.11.30

Measurement duration: 18 minutes 10 seconds

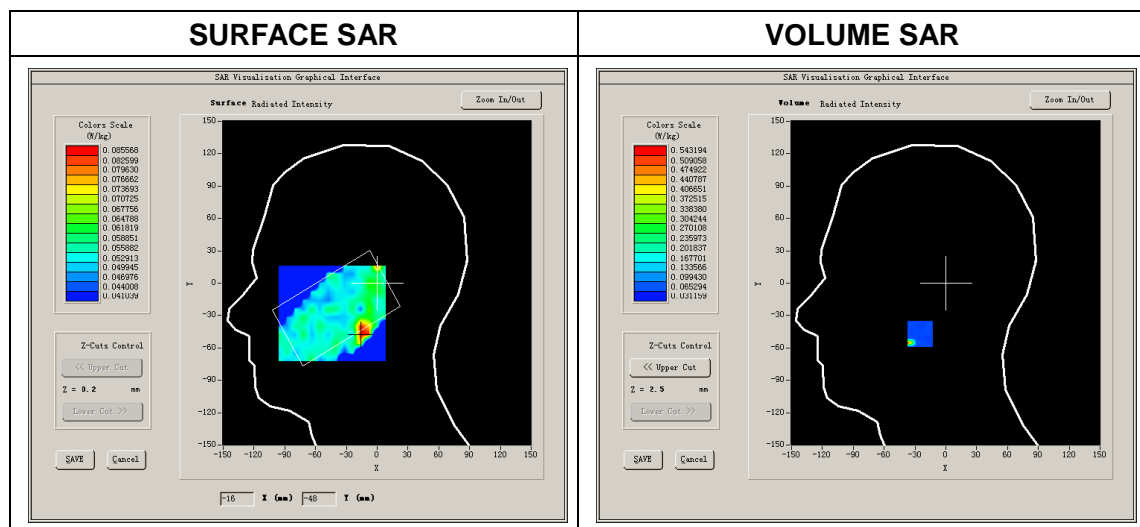
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11n-40</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>OFDM</u>

B. SAR Measurement Results

Higher Band SAR (Channel 54):

Frequency (MHz)	5270.000000
Relative permittivity (real part)	36.083014
Conductivity (S/m)	4.715260
Power drift (%)	-3.450000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.8°C
ConvF:	21.61
Duty cycle:	1:1.057

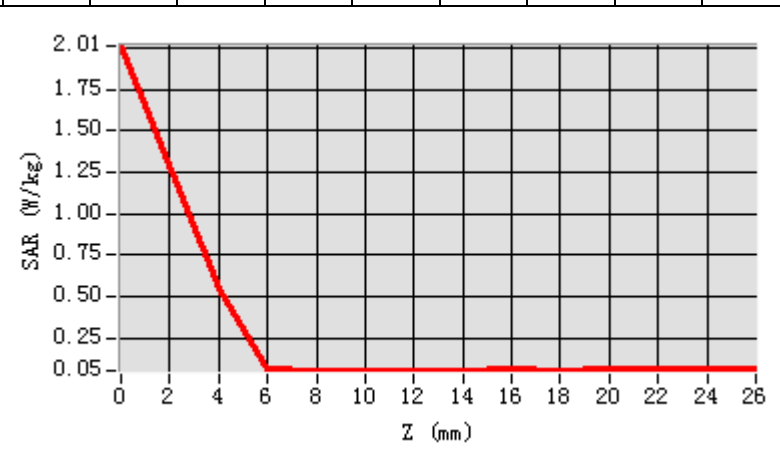


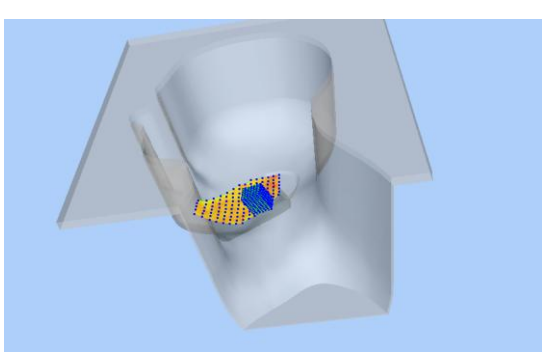
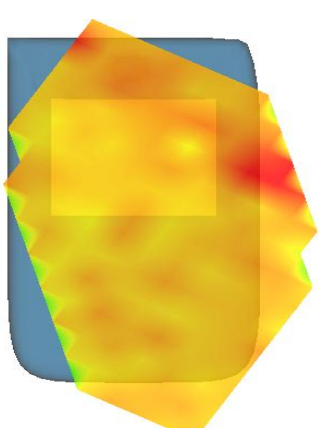
Maximum location: X=-13.00, Y=-47.00

SAR Peak: 1.55 W/kg

SAR 10g (W/Kg)	0.070111
SAR 1g (W/Kg)	0.168859

Z (m)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
SAR (W/Kg)	2.0144	0.5432	0.0606	0.0541	0.0508	0.0542	0.0563	0.0617	0.0564	0.0649	0.0587	0.0636



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 22

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.11.30

Measurement duration: 26 minutes 12 seconds

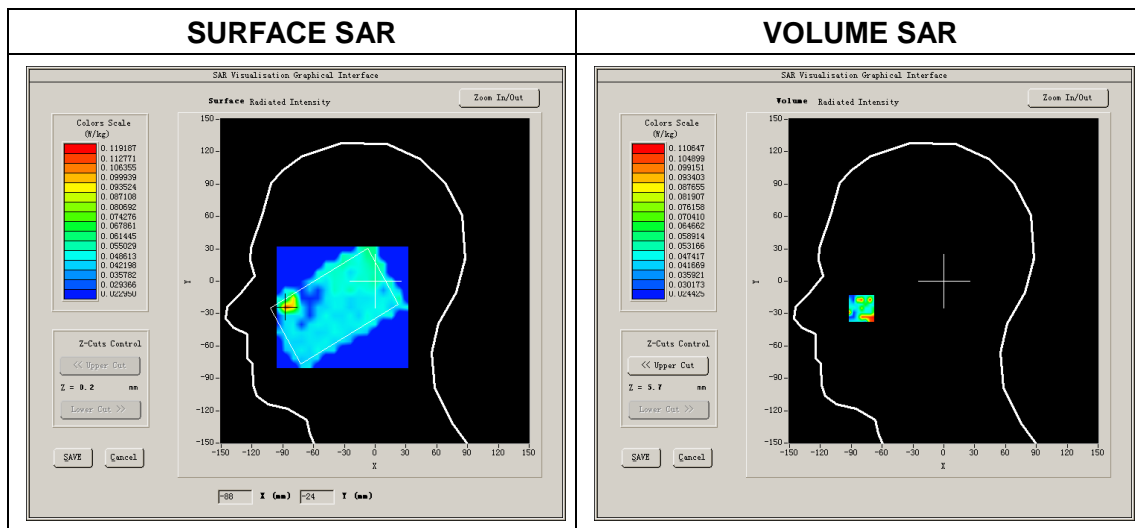
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11n-40</u>
Channels	<u>Middle</u>
Signal	<u>OFDM</u>

B. SAR Measurement Results

Middle Band SAR (Channel 38):

Frequency (MHz)	5190.000000
Relative permittivity (real part)	36.230140
Conductivity (S/m)	4.563562
Power drift (%)	-3.450000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.8°C
ConvF:	21.61
Duty cycle:	1:1.057

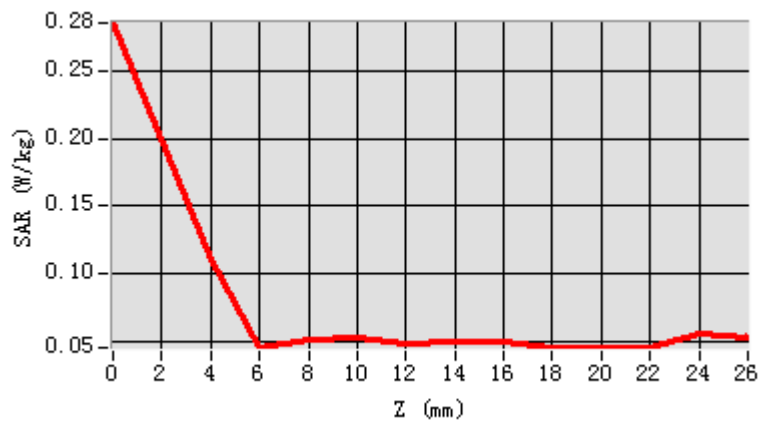


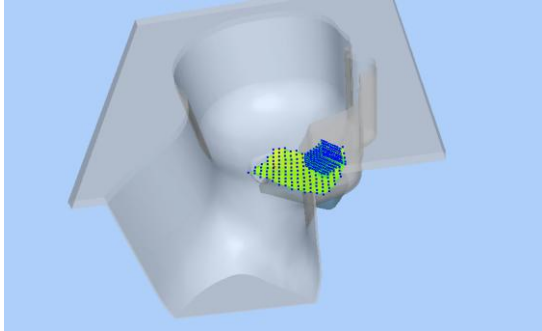
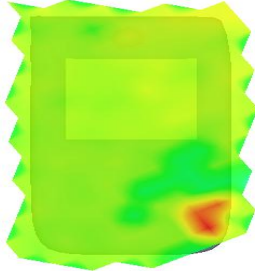
Maximum location: X=-80.00, Y=-24.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.064474
SAR 1g (W/Kg)	0.098907

Z (m)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
					0	0	0	0	0	0	0	0
SAR (W/Kg)	0.2848	0.1106	0.0467	0.0516	0.0537	0.0494	0.0509	0.0509	0.0461	0.0467	0.0464	0.0570



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 23

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.11.30

Measurement duration: 25 minutes 20 seconds

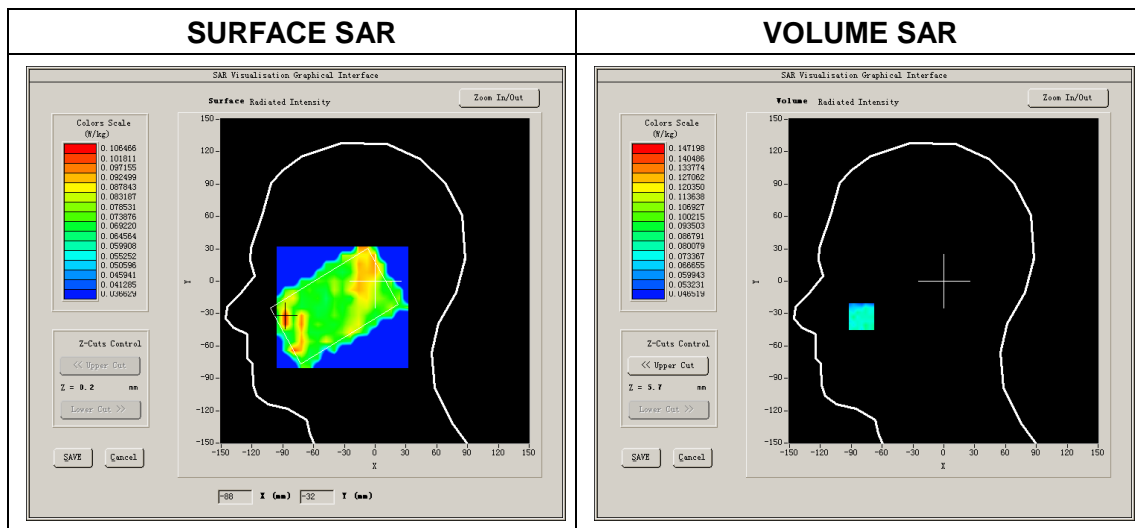
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11n-20</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>OFDM</u>

B. SAR Measurement Results

Higher Band SAR (Channel 165):

Frequency (MHz)	5825.000000
Relative permittivity (real part)	35.130625
Conductivity (S/m)	5.420221
Power drift (%)	-3.450000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.8°C
ConvF:	22.42
Duty cycle:	1:1.029

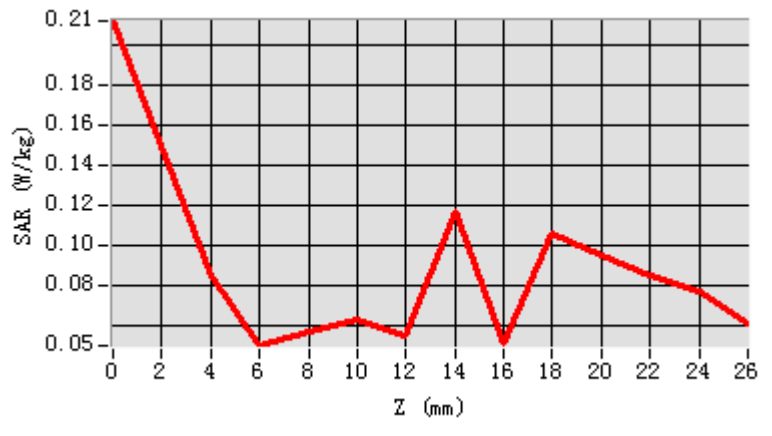


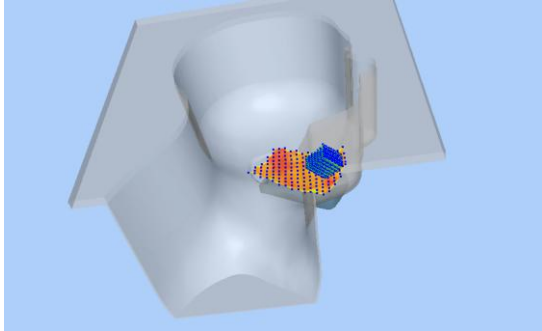
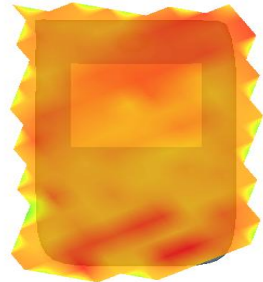
Maximum location: X=-80.00, Y=-33.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.085361
SAR 1g (W/Kg)	0.106988

Z (m m)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
SAR (W/Kg)	0.2118	0.0845	0.0496	0.0571	0.0622	0.0547	0.1168	0.0507	0.1055	0.0942	0.0845	0.0762



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 24

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm,dy=12mm

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

Date of measurement: 2017.11.28

Measurement duration: 8 minutes 37 seconds

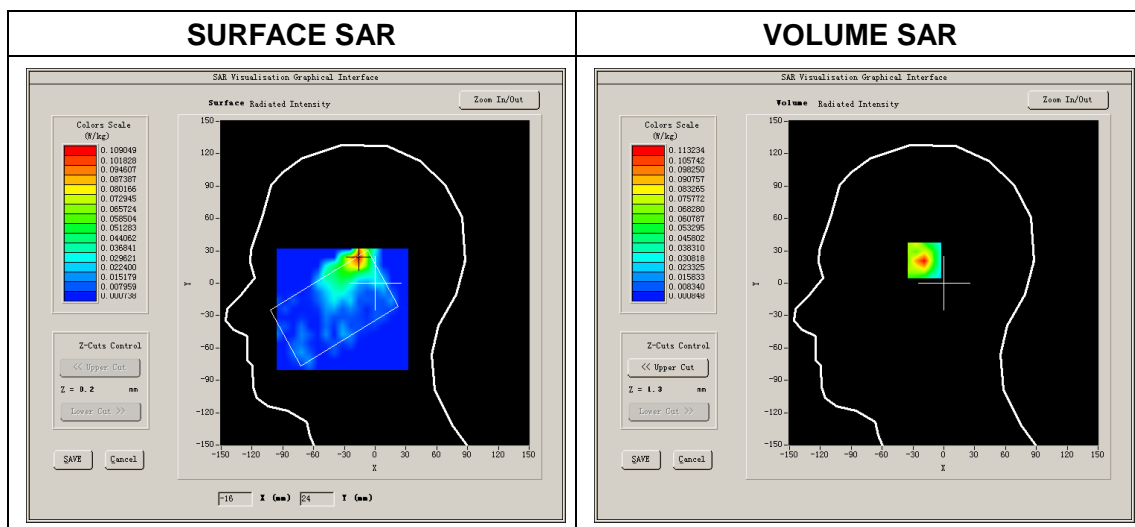
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11b</u>
Channels	<u>Middle</u>
Signal	<u>DSSS</u>

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.424446
Conductivity (S/m)	1.786061
Power drift (%)	-0.650000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Duty cycle:	1:1.007

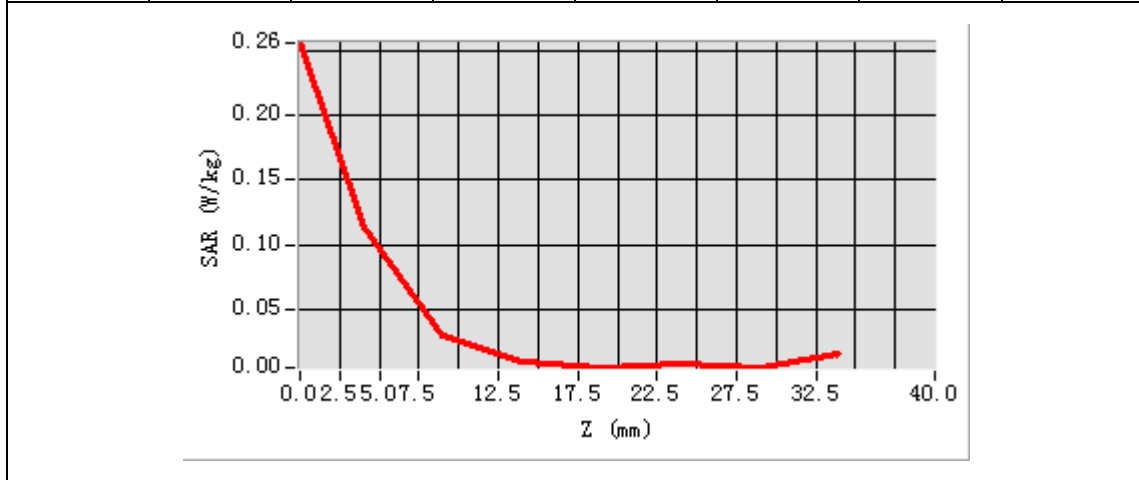


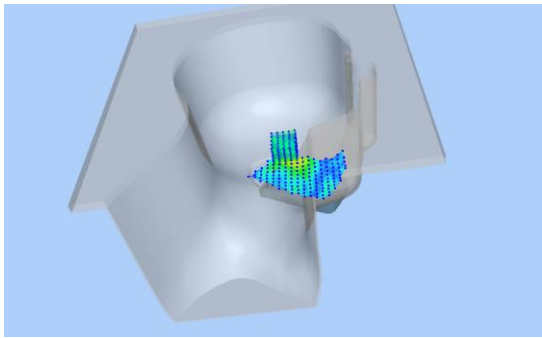
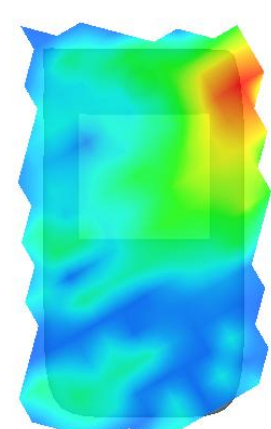
Maximum location: X=-17.00, Y=24.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.041607
SAR 1g (W/Kg)	0.109698

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2562	0.1132	0.0303	0.0098	0.0048	0.0075	0.0050



3D screen shot	Hot spot position
	

MEASUREMENT 25

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm,dy=12mm

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

Date of measurement: 2017.11.28

Measurement duration: 9 minutes 30 seconds

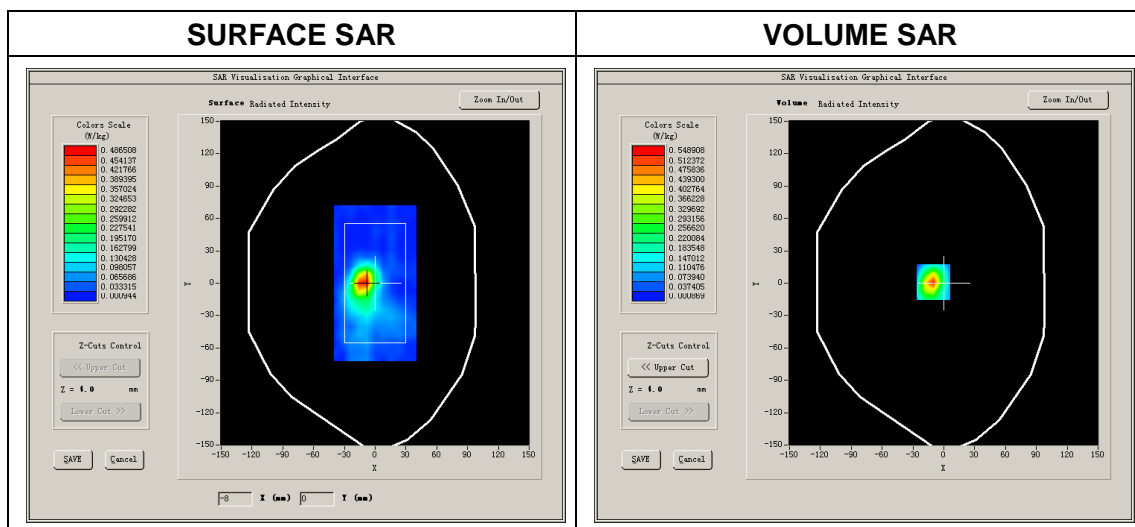
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>IEEE 802.11b ISM</u>
Channels	<u>Middle</u>
Signal	<u>DSSS</u>

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	52.984446
Conductivity (S/m)	1.866143
Power drift (%)	-3.450000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.7°C
ConvF:	4.96
Duty cycle:	1:1.007

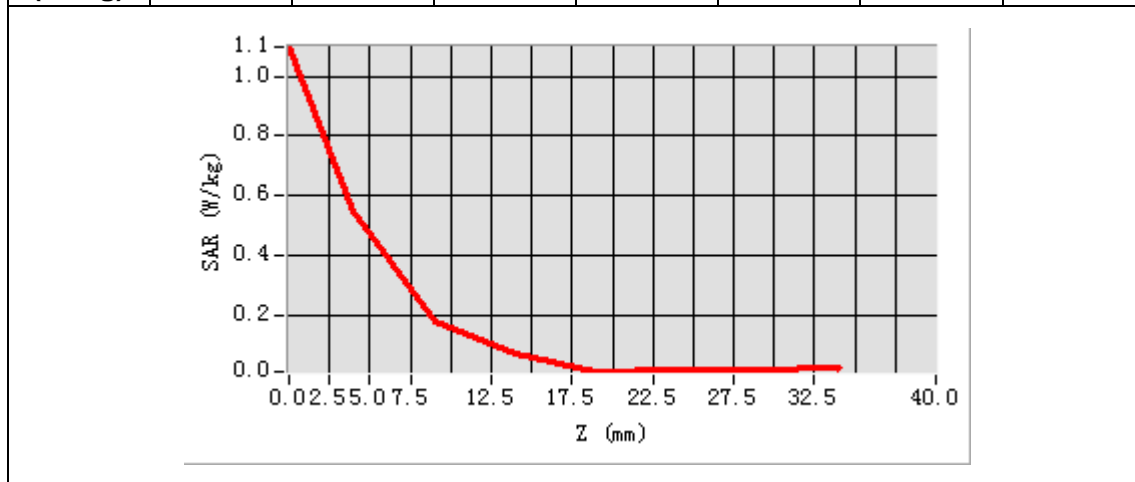


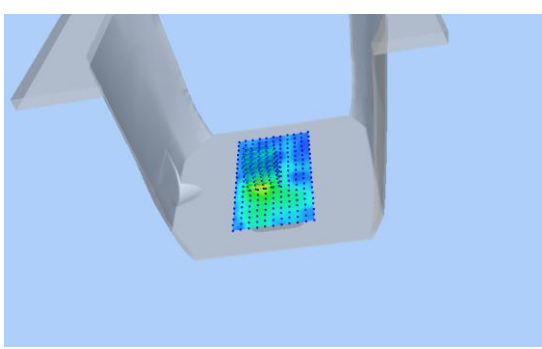
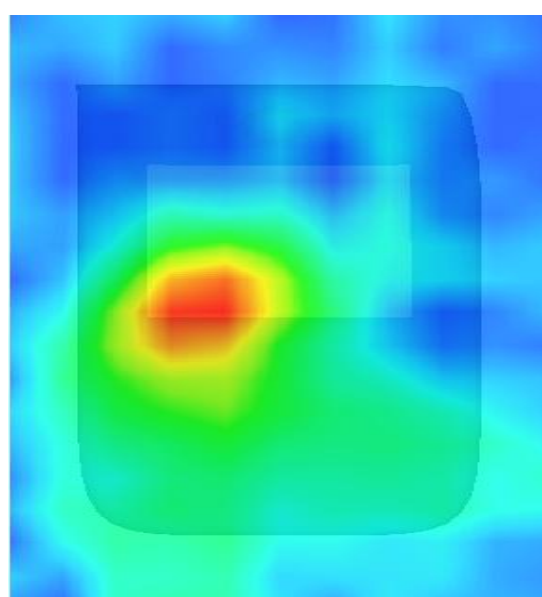
Maximum location: X=-10.00, Y=1.00

SAR Peak: 1.09 W/kg

SAR 10g (W/Kg)	0.180841
SAR 1g (W/Kg)	0.500501

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0989	0.5489	0.1799	0.0672	0.0092	0.0172	0.0167



3D screen shot	Hot spot position
	

MEASUREMENT 26

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.11.30

Measurement duration: 19 minutes 1 seconds

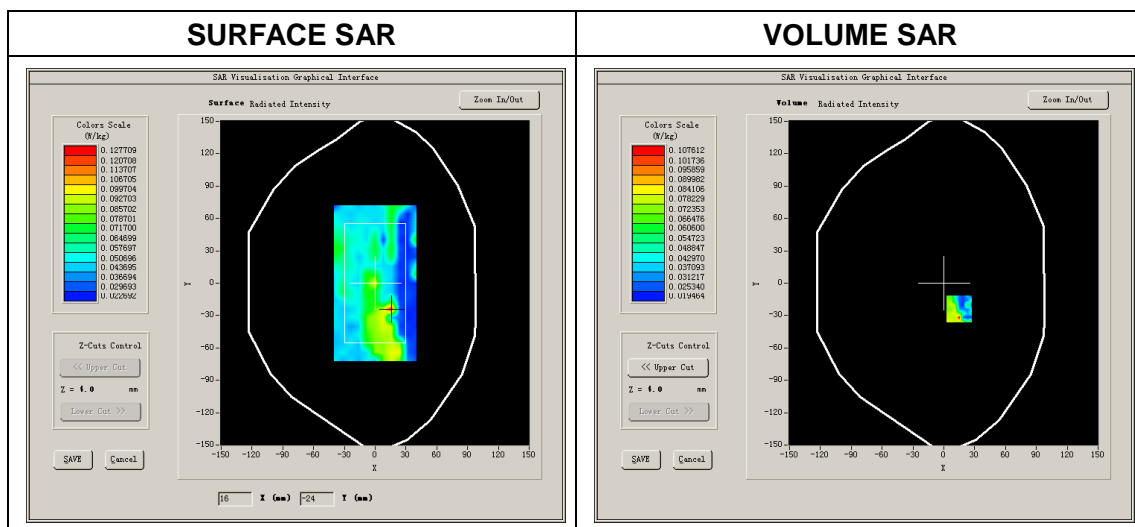
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>IEEE 802.11n-40</u>
Channels	<u>Middle</u>
Signal	<u>OFDM</u>

B. SAR Measurement Results

Middle Band SAR (Channel 38):

Frequency (MHz)	5190.000000
Relative permittivity (real part)	49.313021
Conductivity (S/m)	5.443215
Power drift (%)	-3.450000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.8°C
ConvF:	22.11
Duty cycle:	1:1

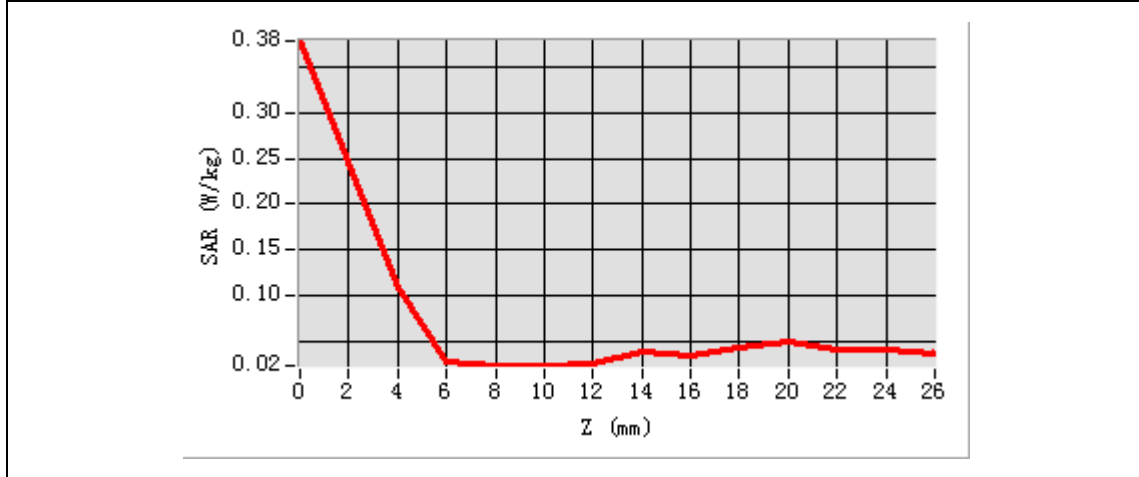


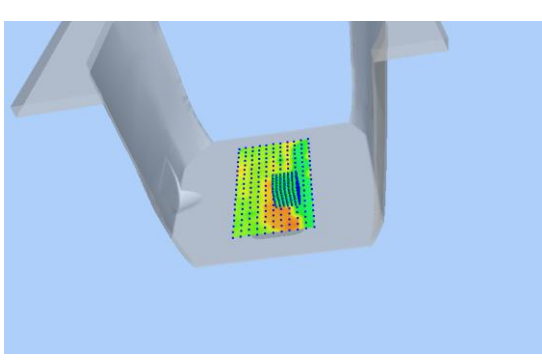
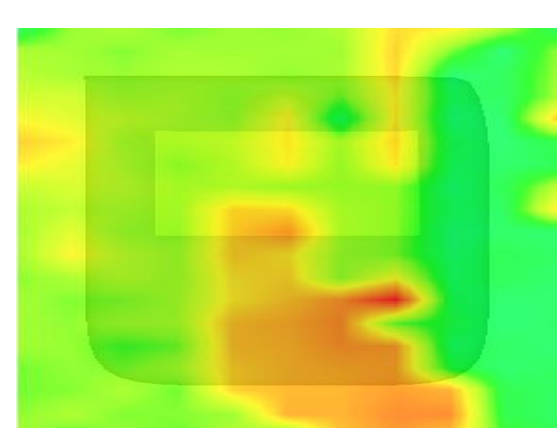
Maximum location: X=15.00, Y=-24.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.056571
SAR 1g (W/Kg)	0.100116

Z (m m)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
					0	0	0	0	0	0	0	0
SAR (W/Kg)	0.3795	0.1076	0.0261	0.0228	0.0225	0.0243	0.0386	0.0327	0.0422	0.0482	0.0396	0.0399



<p align="center">3D screen shot</p>	<p align="center">Hot spot position</p>
	

MEASUREMENT 27

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 24/11/2011

Measurement duration: 19 minutes 2 seconds

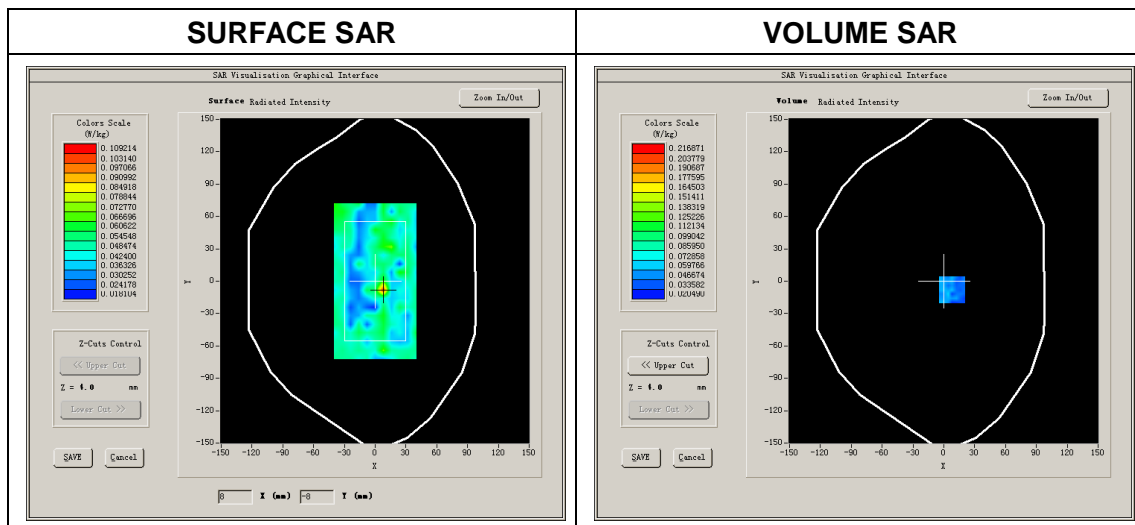
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11n-20</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>OFDM</u>

B. SAR Measurement Results

Higher Band SAR (Channel 165):

Frequency (MHz)	5825.000000
Relative permittivity (real part)	48.075128
Conductivity (S/m)	5.980764
Power drift (%)	-3.450000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.8°C
ConvF:	23.02
Duty cycle:	1:1

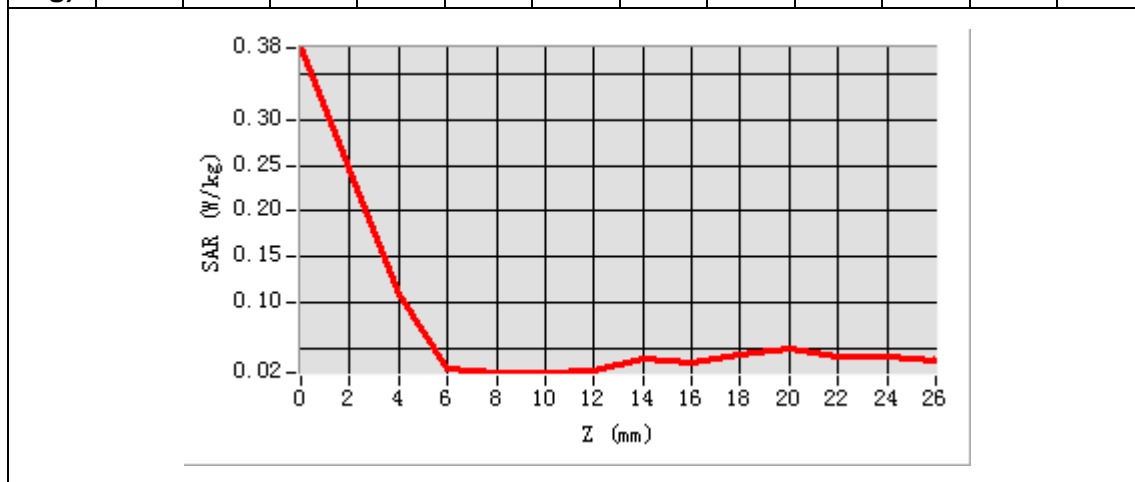


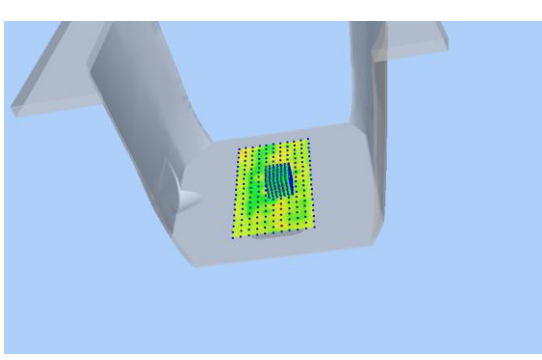
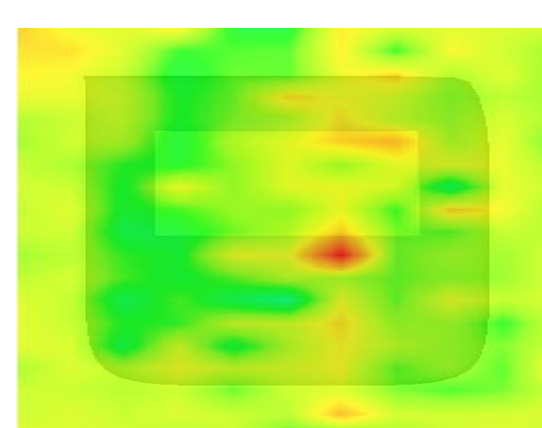
Maximum location: X=8.00, Y=-8.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.079104
SAR 1g (W/Kg)	0.106500

Z (m m)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
					0	0	0	0	0	0	0	0
SAR (W/Kg)	0.1078	0.0619	0.0618	0.0259	0.0561	0.0684	0.0459	0.0280	0.0216	0.0230	0.0253	0.0293



<p>3D screen shot</p>	<p>Hot spot position</p>
	

MEASUREMENT 28

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.11.30

Measurement duration: 18 minutes 58 seconds

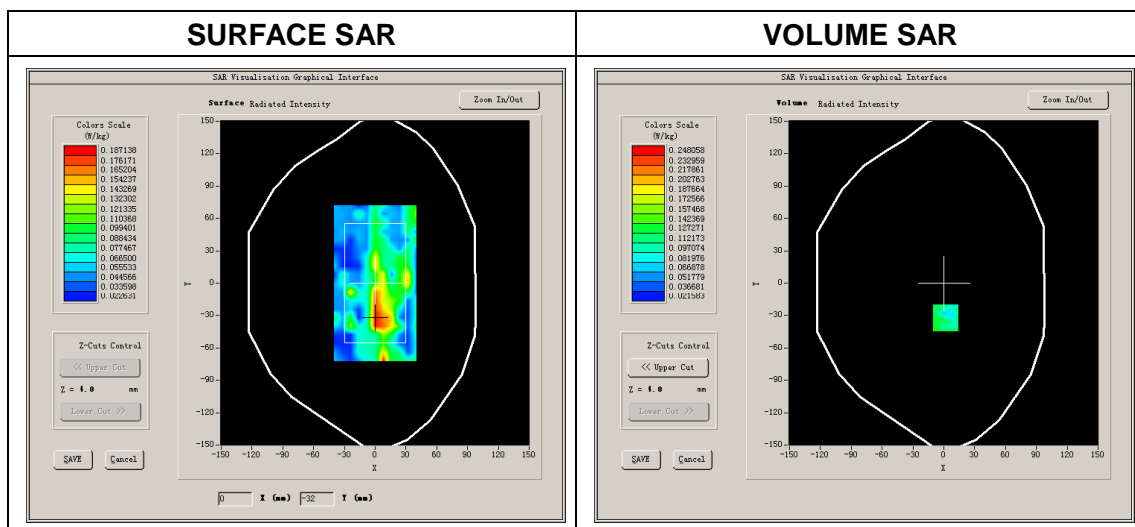
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>IEEE 802.11n-40</u>
Channels	<u>High</u>
Signal	<u>OFDM</u>

B. SAR Measurement Results

Higher Band SAR (Channel 54):

Frequency (MHz)	5270.000000
Relative permittivity (real part)	48.173014
Conductivity (S/m)	5.643260
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	22.11
Duty cycle:	1:1

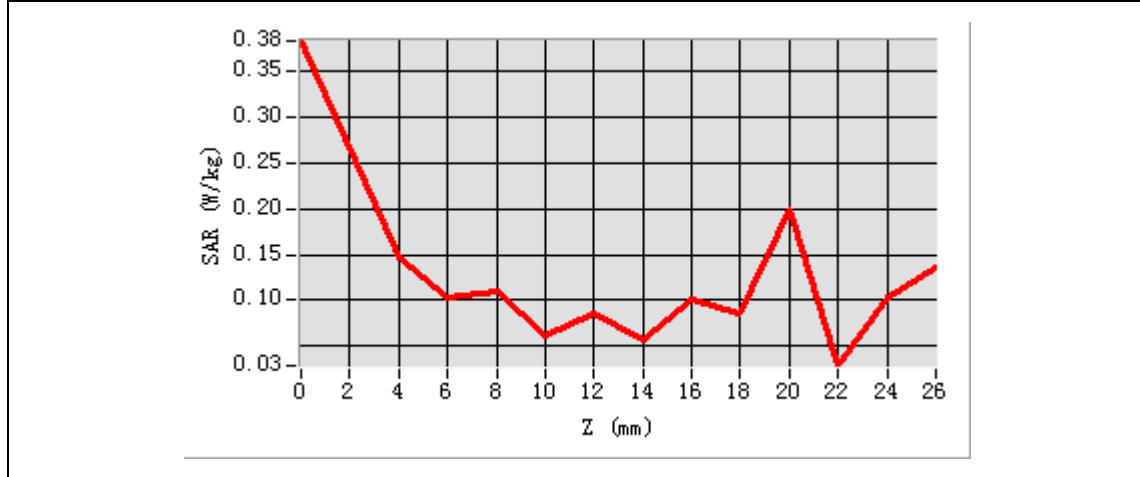


Maximum location: X=2.00, Y=-32.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.098297
SAR 1g (W/Kg)	0.112833

Z (m m)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
					0	0	0	0	0	0	0	0
SAR (W/Kg)	0.3825	0.1476	0.1026	0.1101	0.0623	0.0857	0.0571	0.1011	0.0859	0.1987	0.0289	0.1021



<p align="center">3D screen shot</p>	<p align="center">Hot spot position</p>
