

**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Touch- Left<SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.90$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

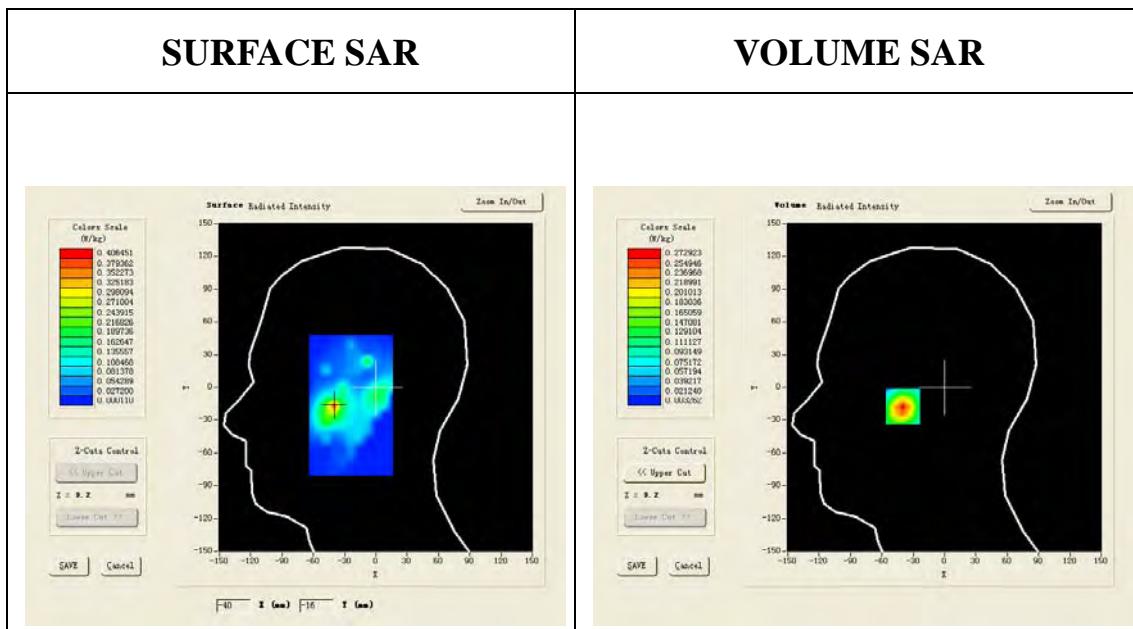
- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Touch-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/PCS1900 Mid Touch-Left/Zoom Scan: Measurement grid: dx=8mm,**

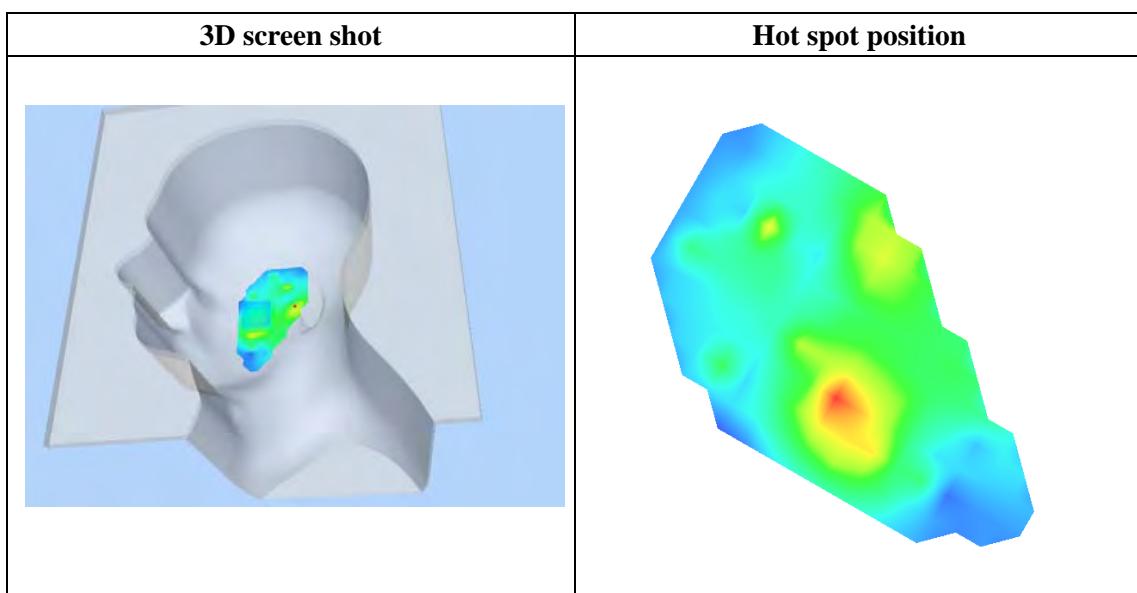
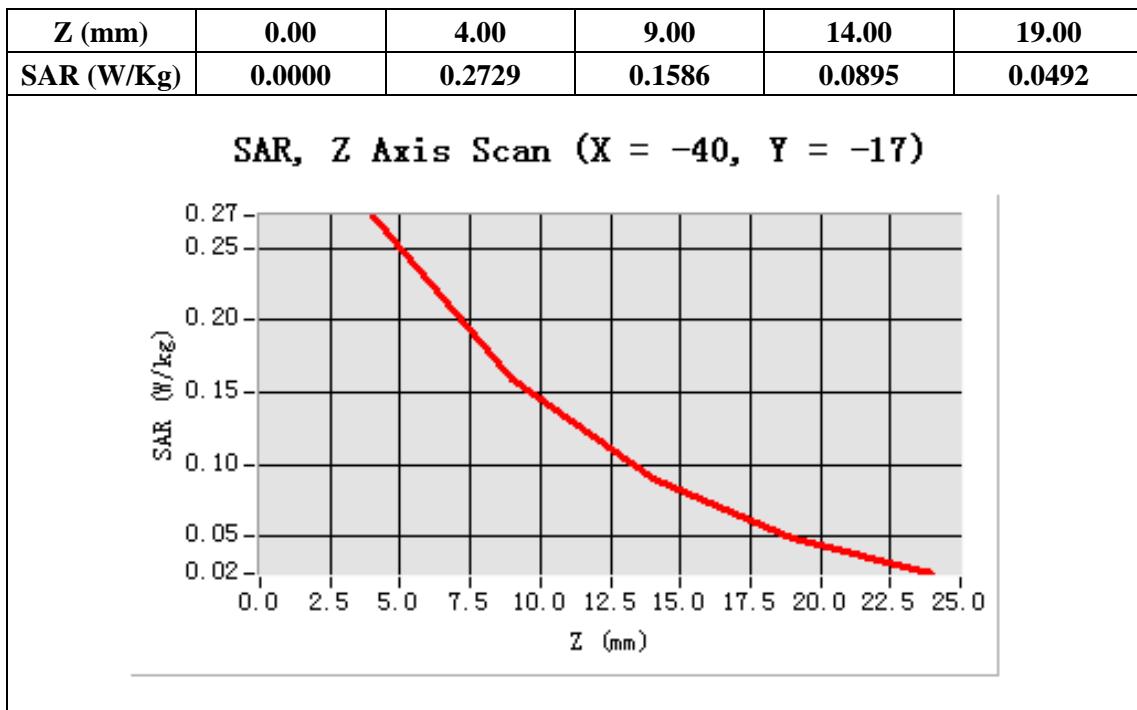
dy=8mm, dz=5mm;

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-40.00, Y=-17.00**

<b>SAR 10g (W/Kg)</b>	0.127535
<b>SAR 1g (W/Kg)</b>	0.251055



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Tilt-Left<SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.90$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

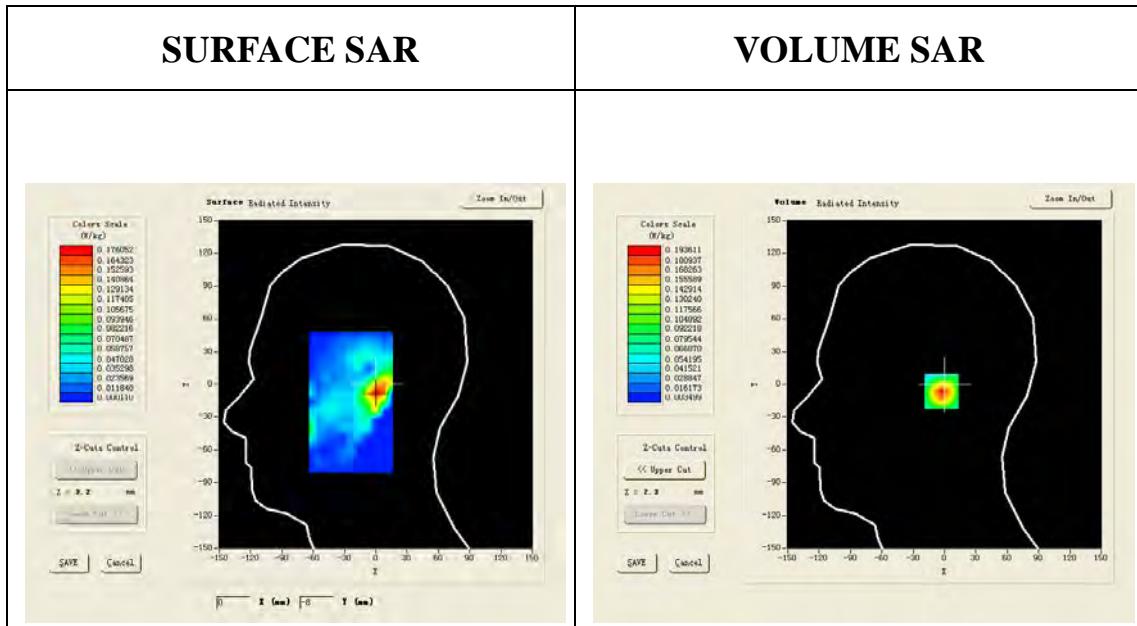
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Tilt-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm**

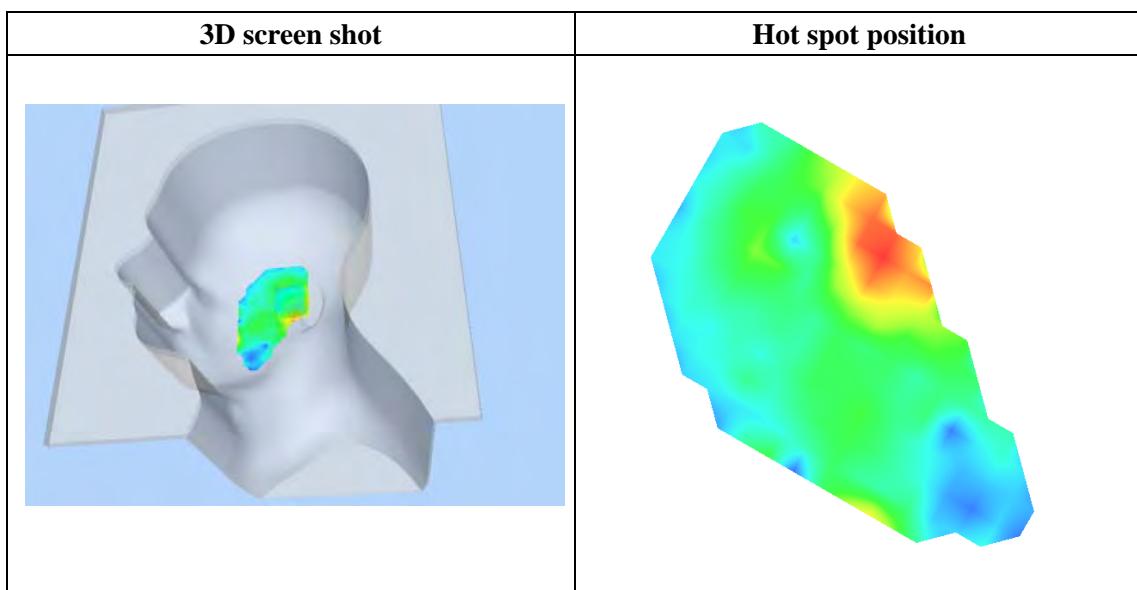
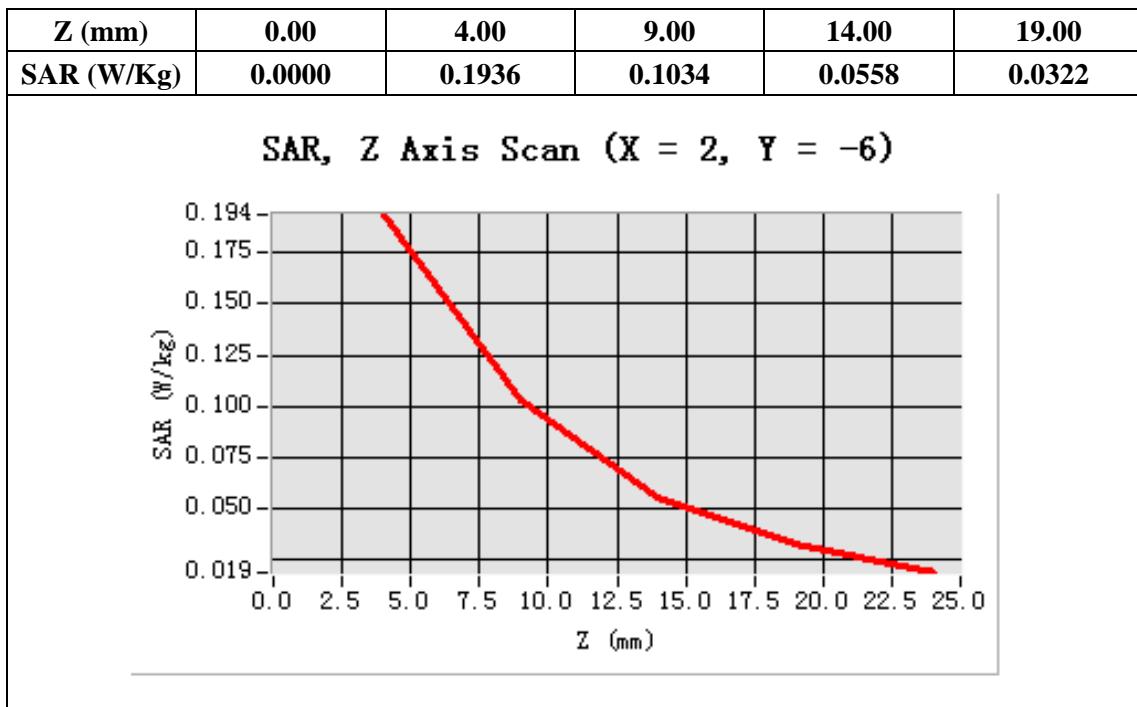
**Configuration/PCS1900 Mid Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=2.00, Y=-6.00**

<b>SAR 10g (W/Kg)</b>	0.089013
<b>SAR 1g (W/Kg)</b>	0.179310



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Touch- Right<SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.90$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

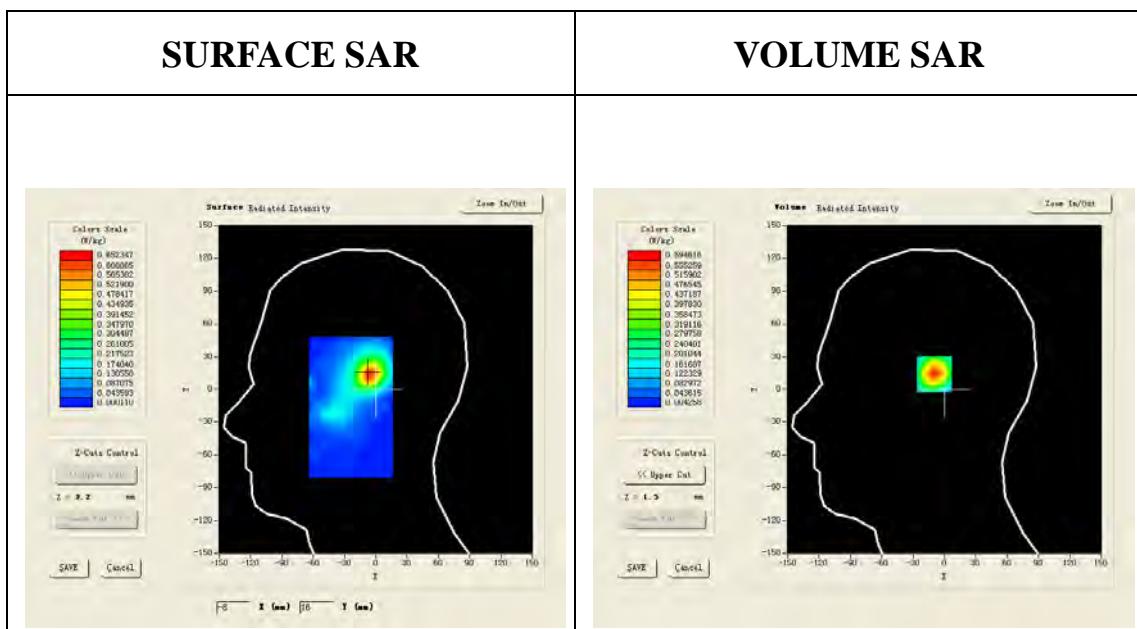
- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/PCS1900 Mid Touch-Right/Zoom Scan: Measurement grid: dx=8mm,**

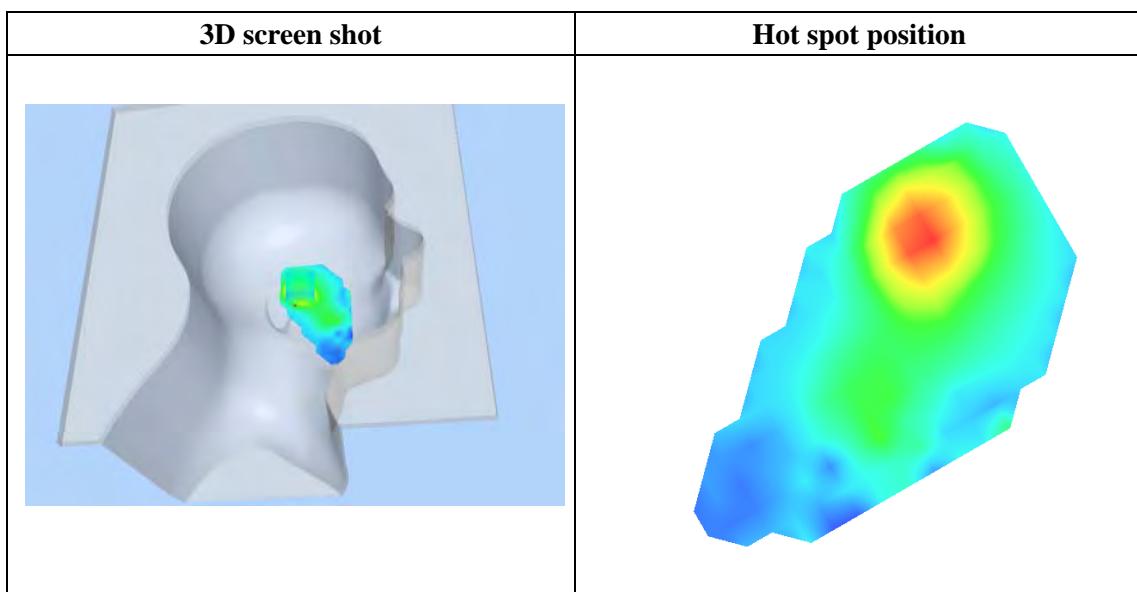
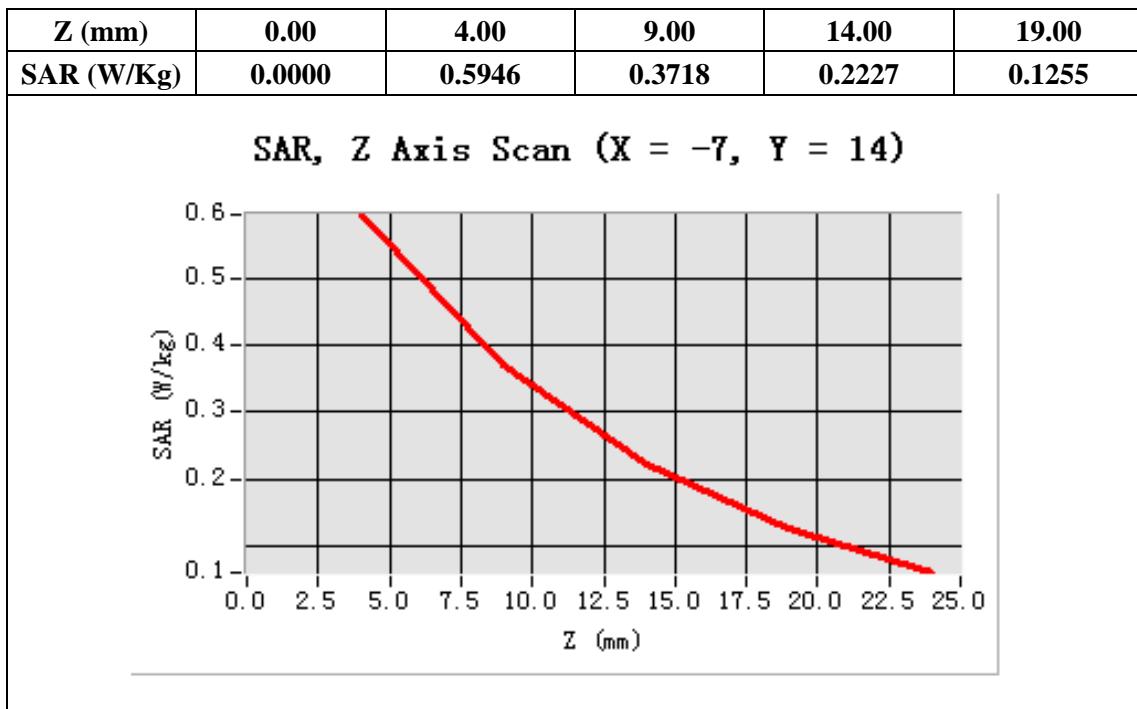
dy=8mm, dz=5mm;

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-7.00, Y=14.00**

<b>SAR 10g (W/Kg)</b>	0.287312
<b>SAR 1g (W/Kg)</b>	0.545489



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Tilt- Right<SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.90$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

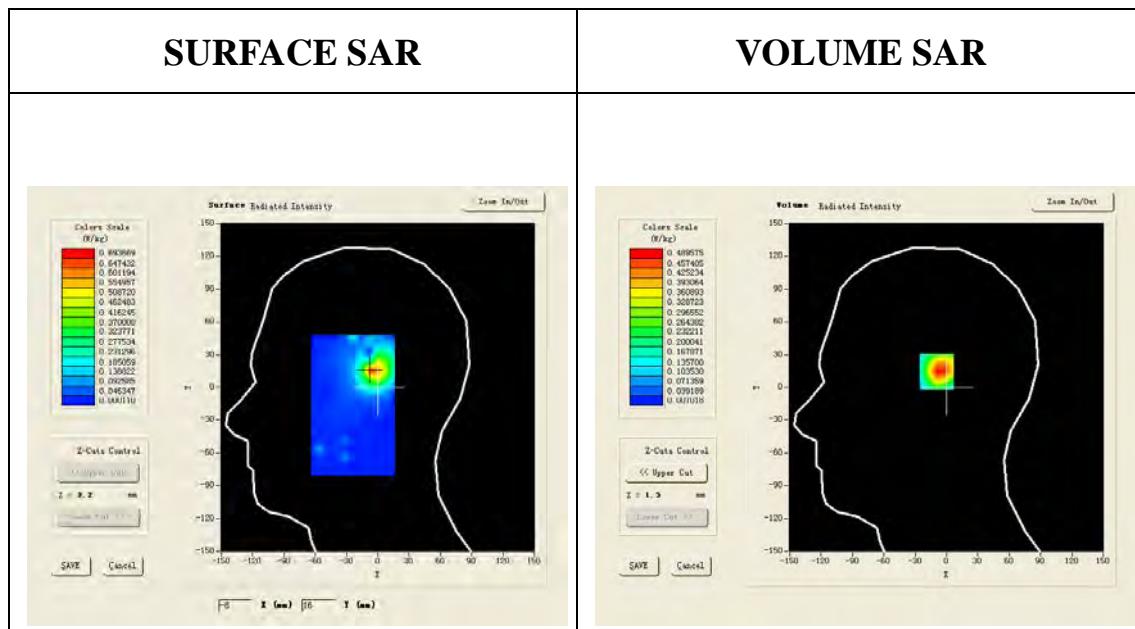
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm**

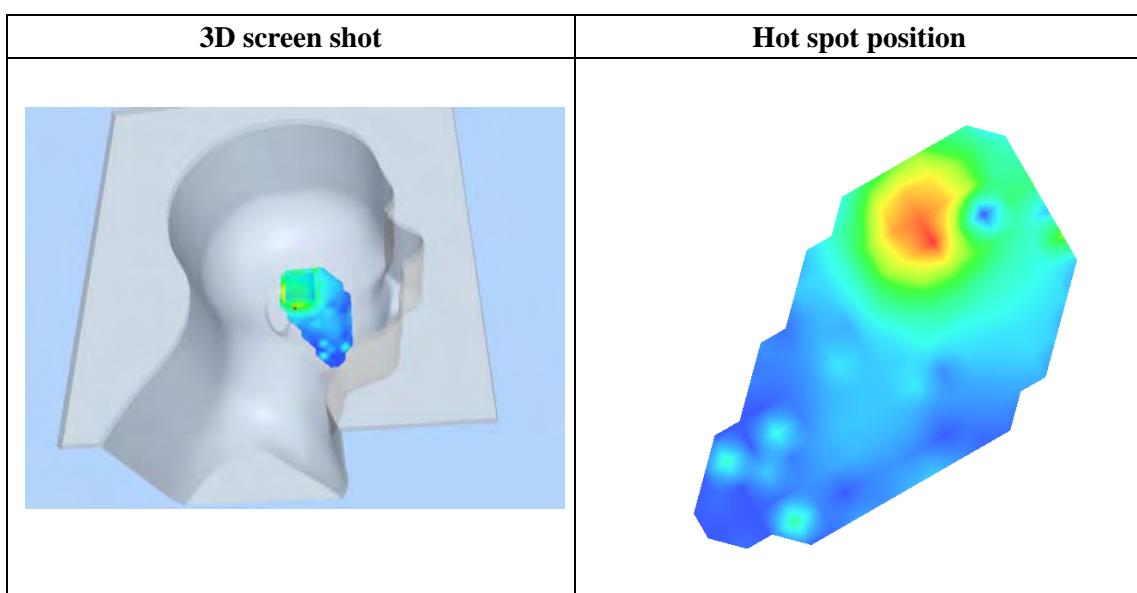
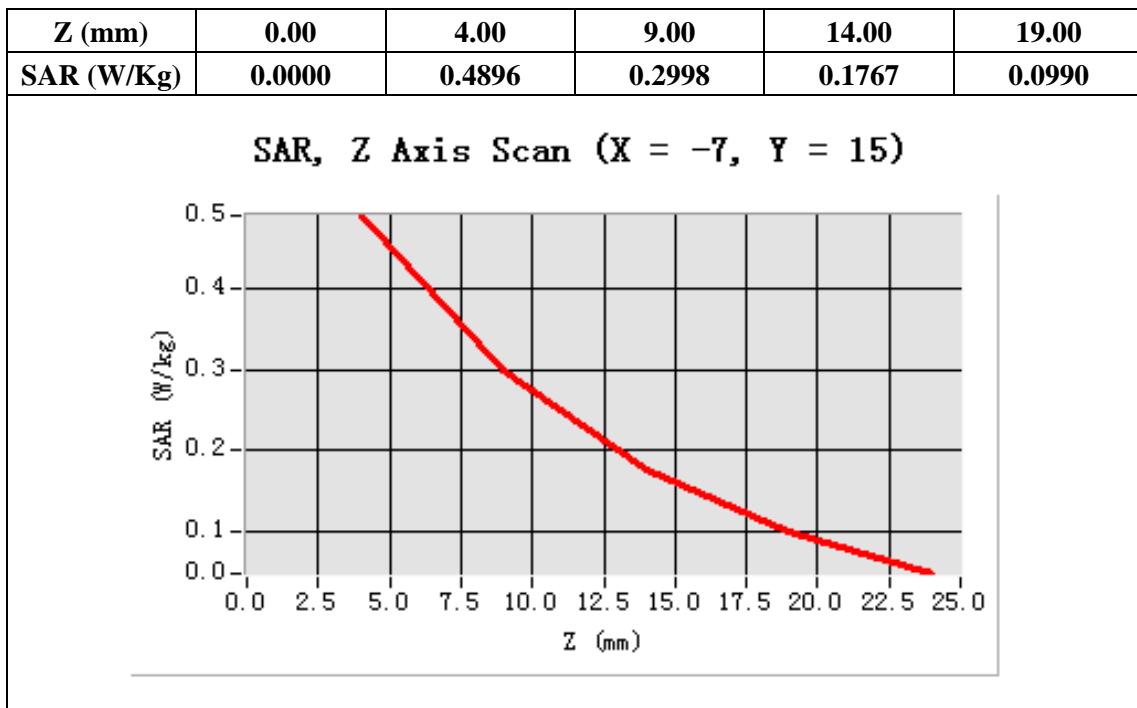
**Configuration/PCS1900 Mid Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,  
dy=8mm, dz=5mm;**

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-7.00, Y=15.00**

<b>SAR 10g (W/Kg)</b>	0.250068
<b>SAR 1g (W/Kg)</b>	0.466698



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Touch-Right<SIM 2>**

**DUT: mobile phone; Type: AM507**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.90$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

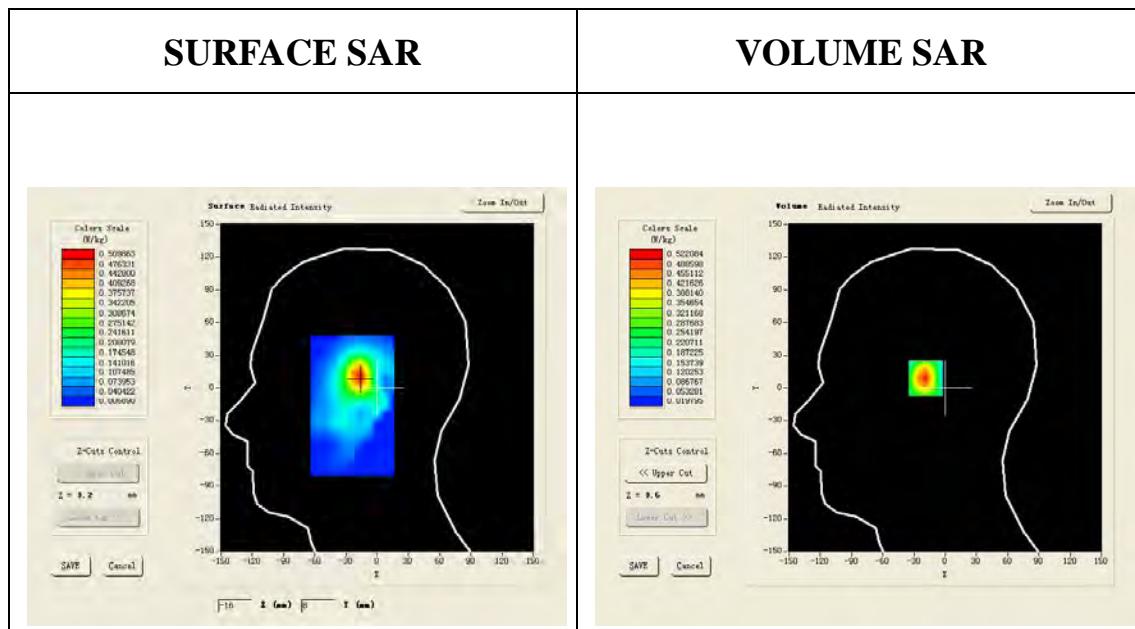
- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/PCS1900 Mid Touch-Right/Zoom Scan: Measurement grid: dx=8mm,**

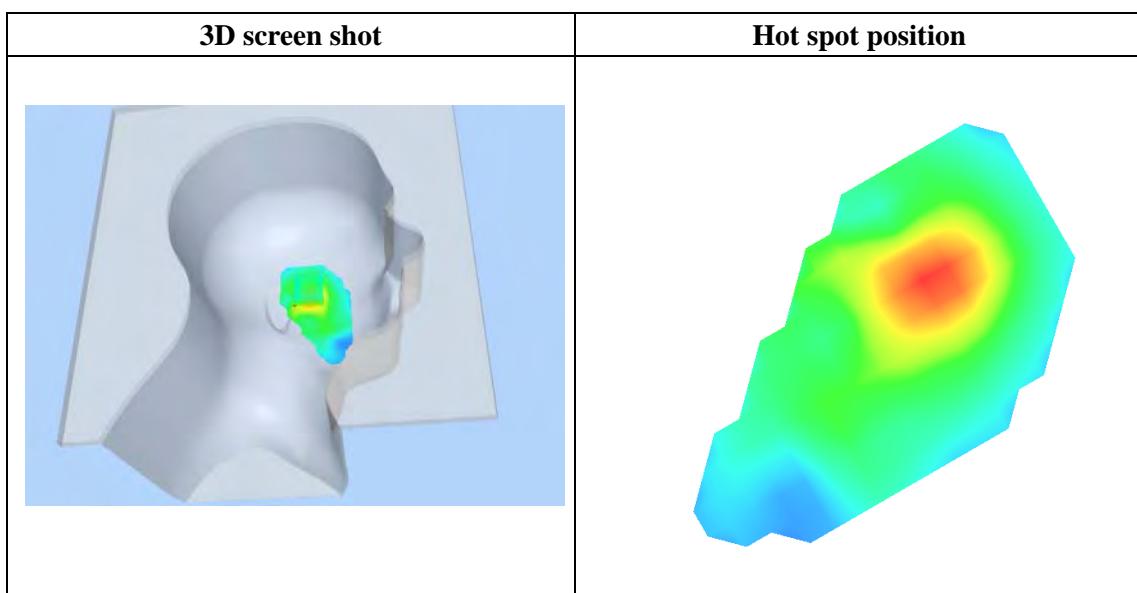
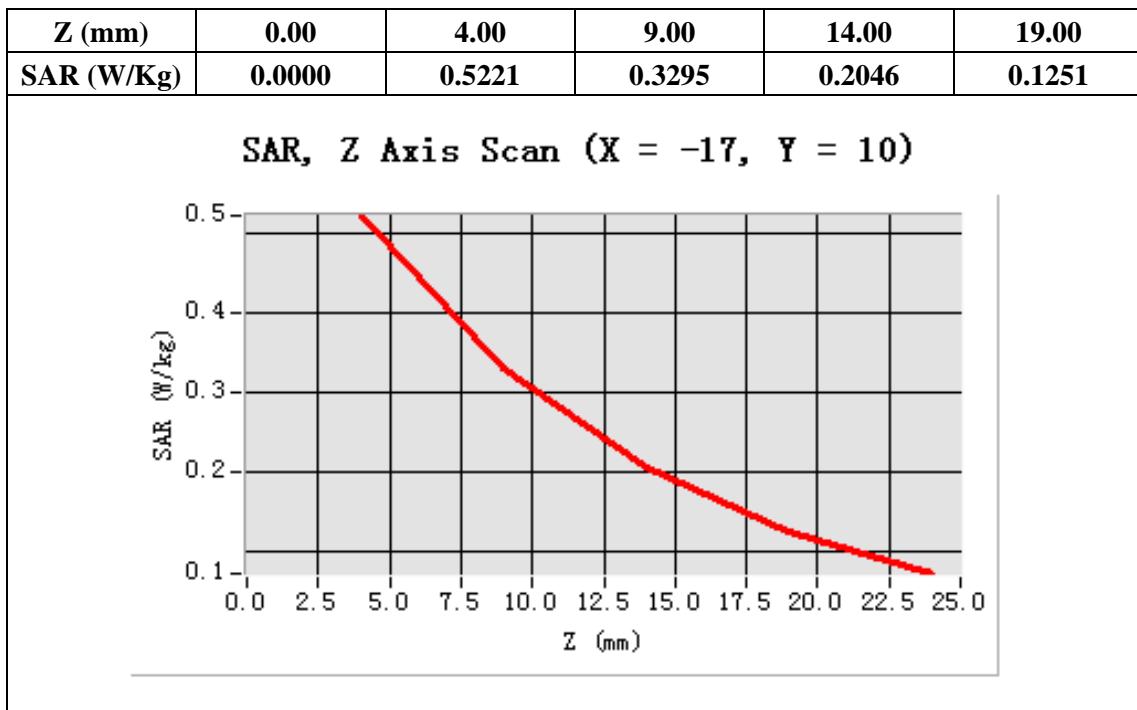
dy=8mm, dz=5mm;

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Touch
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-17.00, Y=10.00**

<b>SAR 10g (W/Kg)</b>	0.263859
<b>SAR 1g (W/Kg)</b>	0.482802



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Body- Back(MS) <SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.18$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

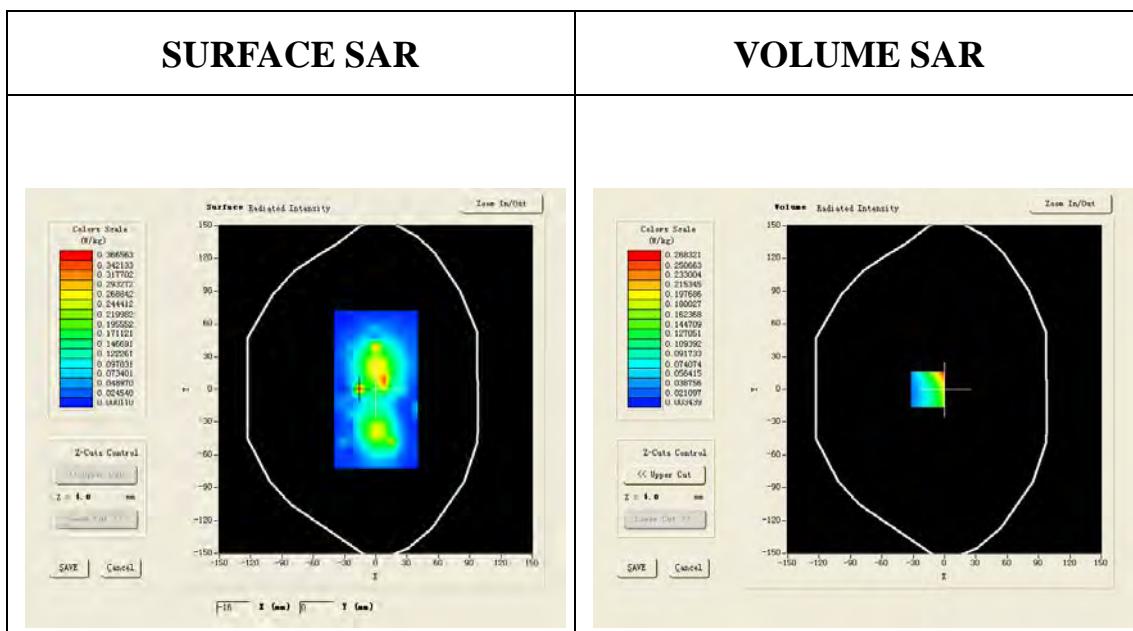
- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/PCS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm,**

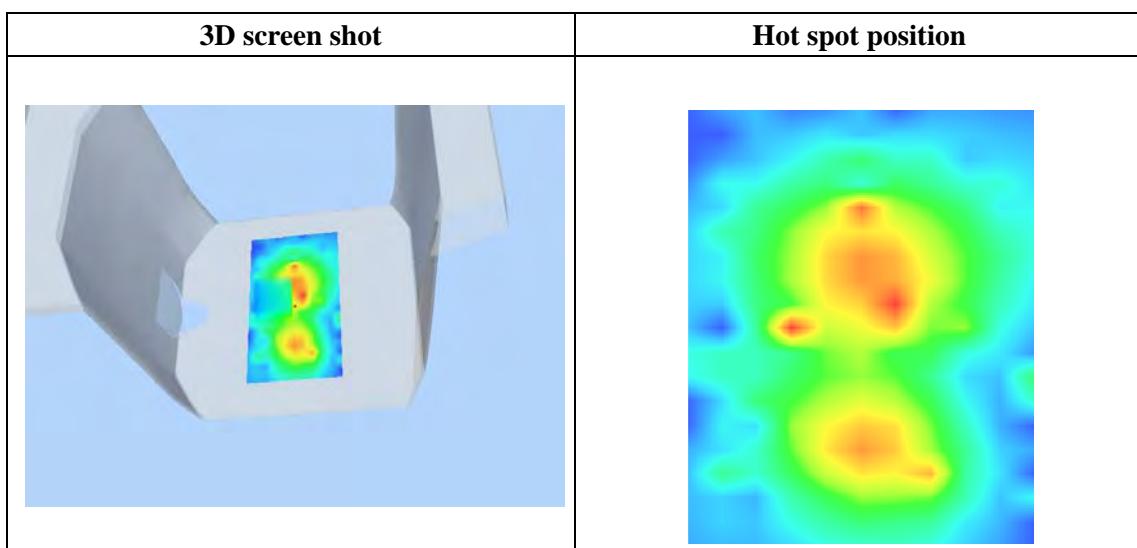
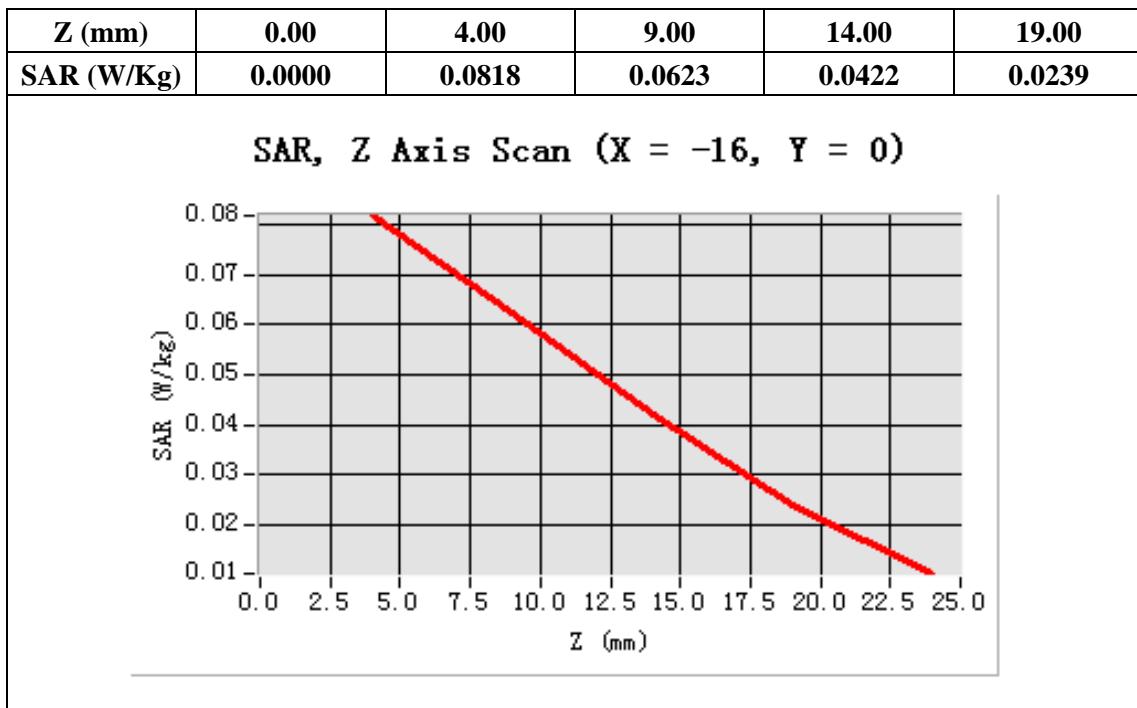
dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-16.00, Y=0.00**

<b>SAR 10g (W/Kg)</b>	0.101327
<b>SAR 1g (W/Kg)</b>	0.224464



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Body- Back (2up) <SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: GPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.18$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

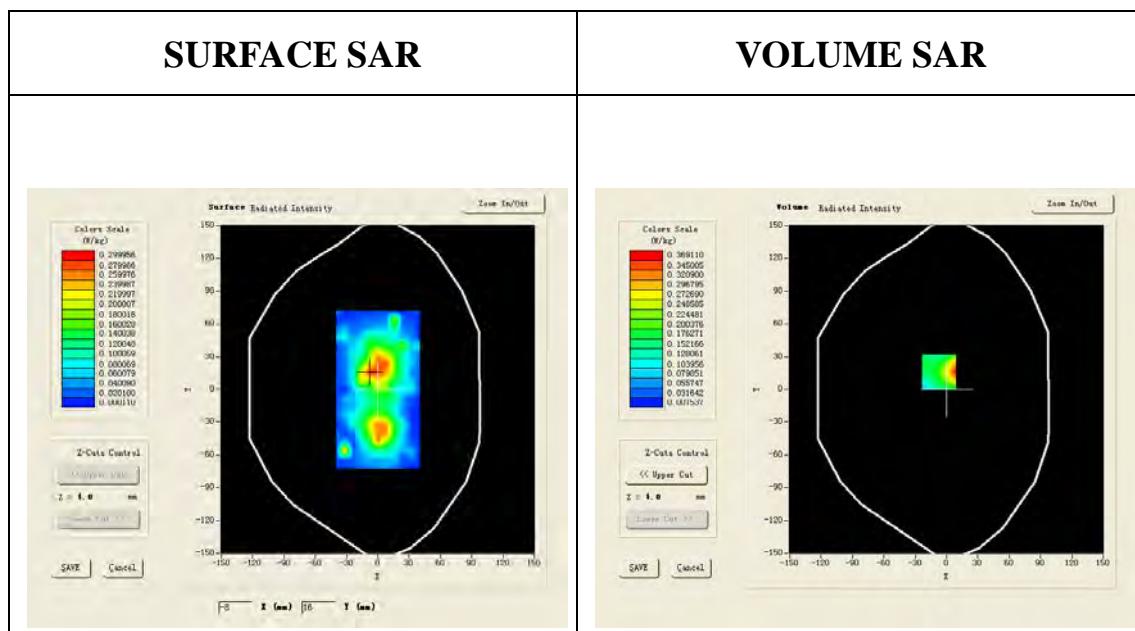
- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm,**

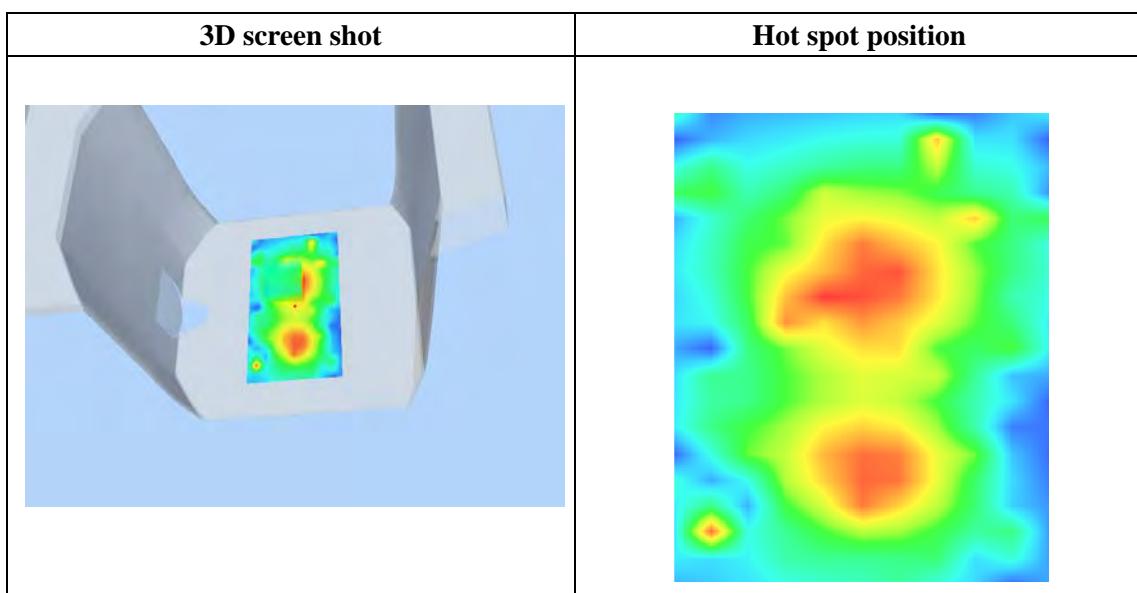
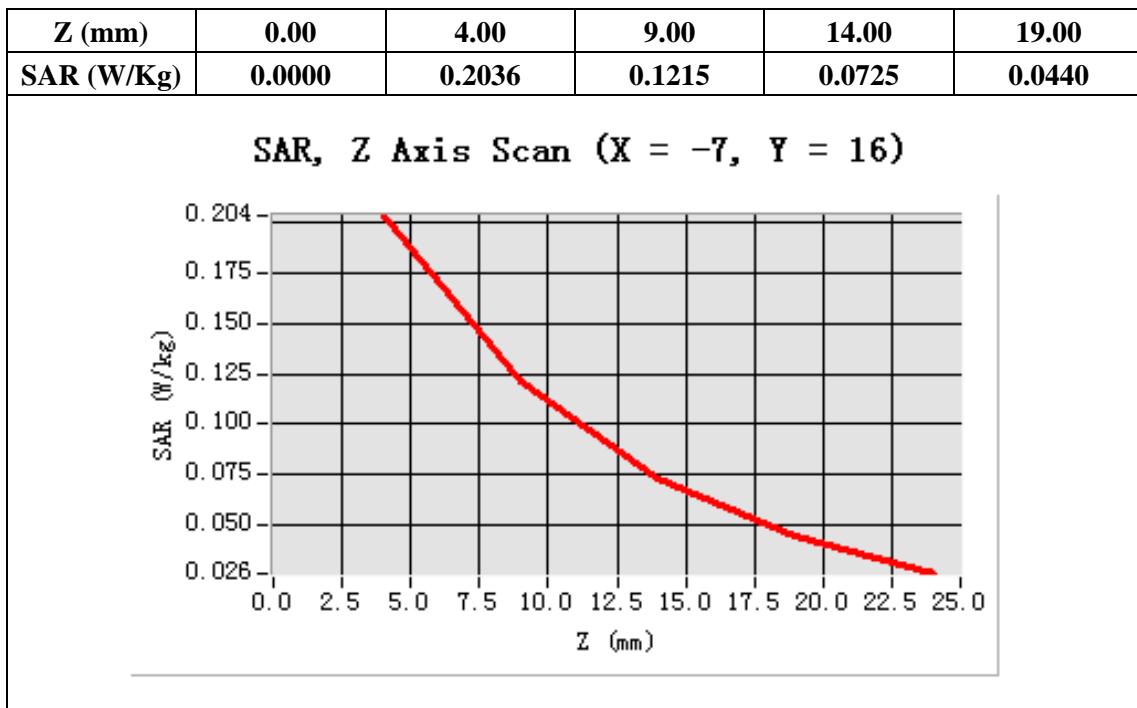
dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)



**Maximum location: X=-7.00, Y=16.00**

<b>SAR 10g (W/Kg)</b>	0.160268
<b>SAR 1g (W/Kg)</b>	0.327982



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Body -Front (2up) <SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: GPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.18$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

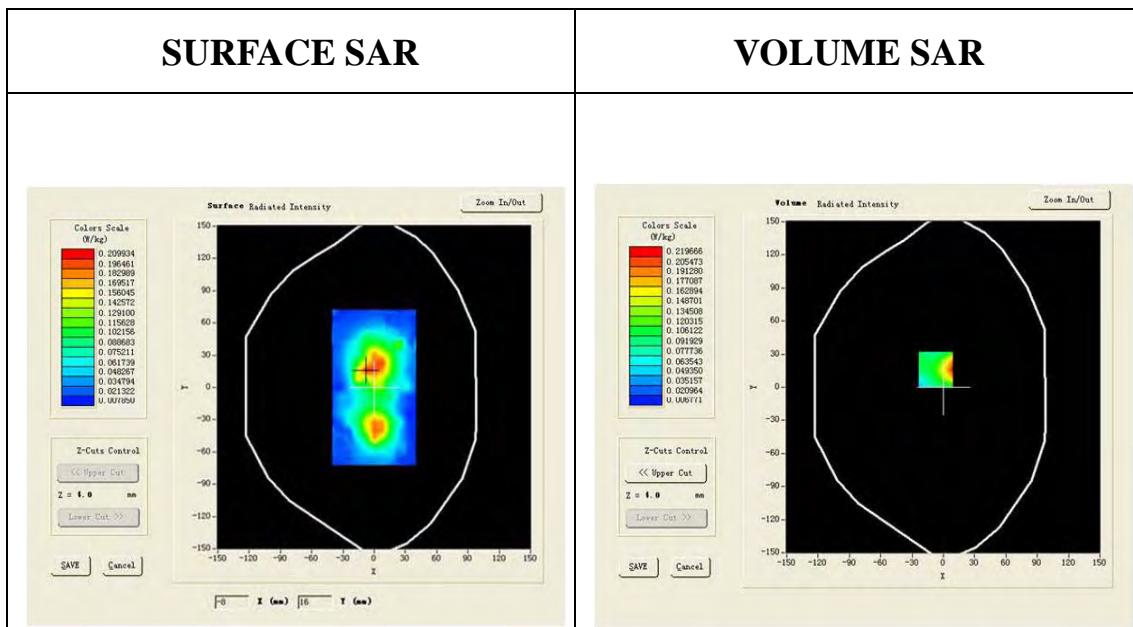
- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS1900 Mid Body-Front/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/GPRS1900 Mid Body-Front/Zoom Scan: Measurement grid: dx=8mm,**

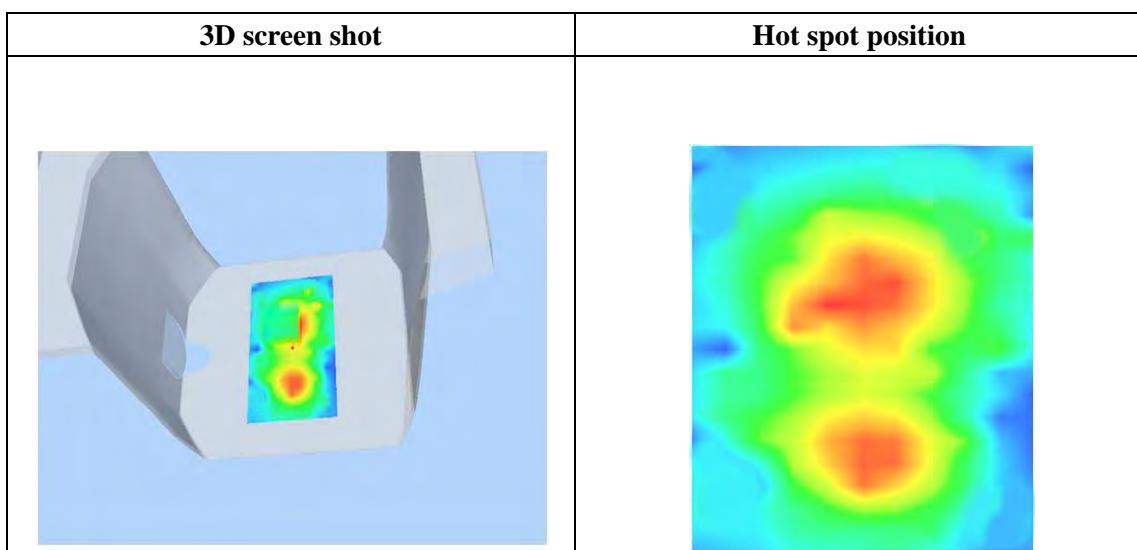
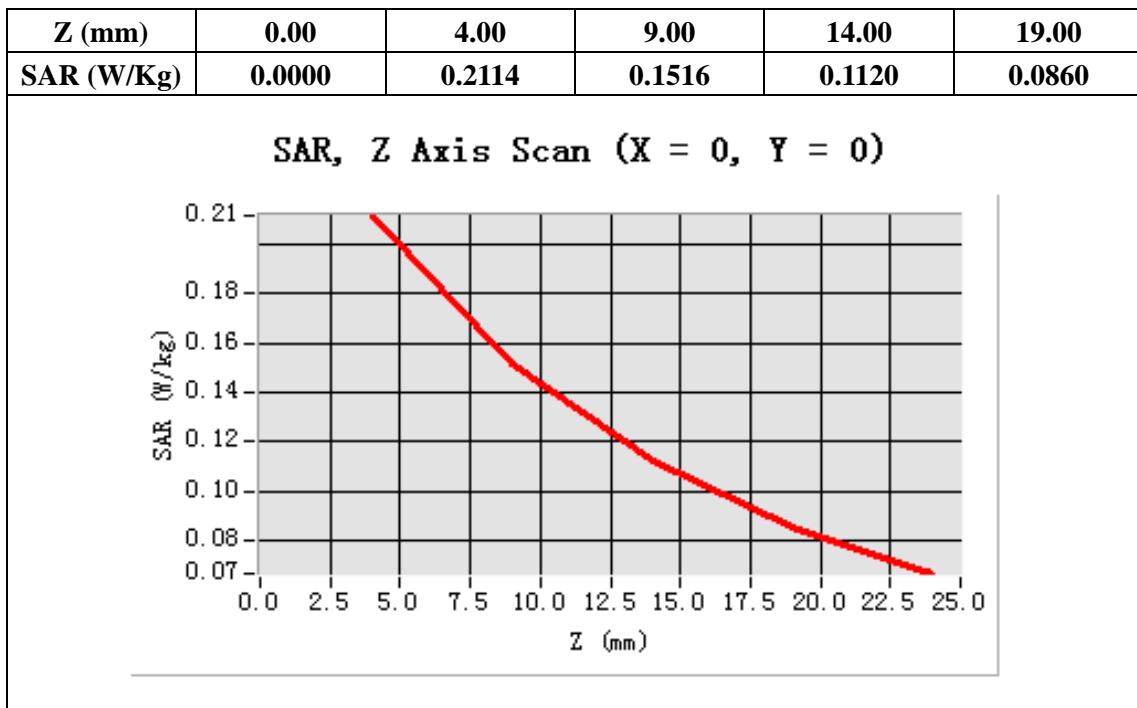
dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)



**Maximum location: X=-7.00, Y=16.00**

<b>SAR 10g (W/Kg)</b>	0.154431
<b>SAR 1g (W/Kg)</b>	0.220173



**Test Laboratory: AGC Lab**

**Date: Aug. 14,2012**

**PCS 1900 Mid-Body- Back (2up with earphone) <SIM 1>**

**DUT: mobile phone; Type: AM507**

Communication System: GPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.18$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

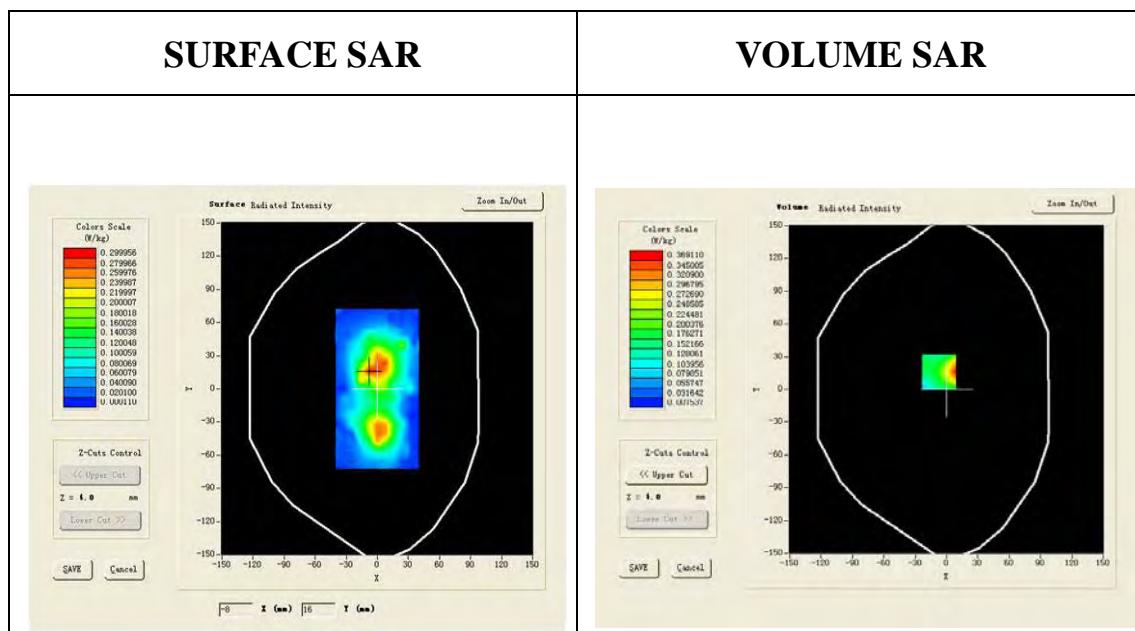
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm**

**Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5m;**

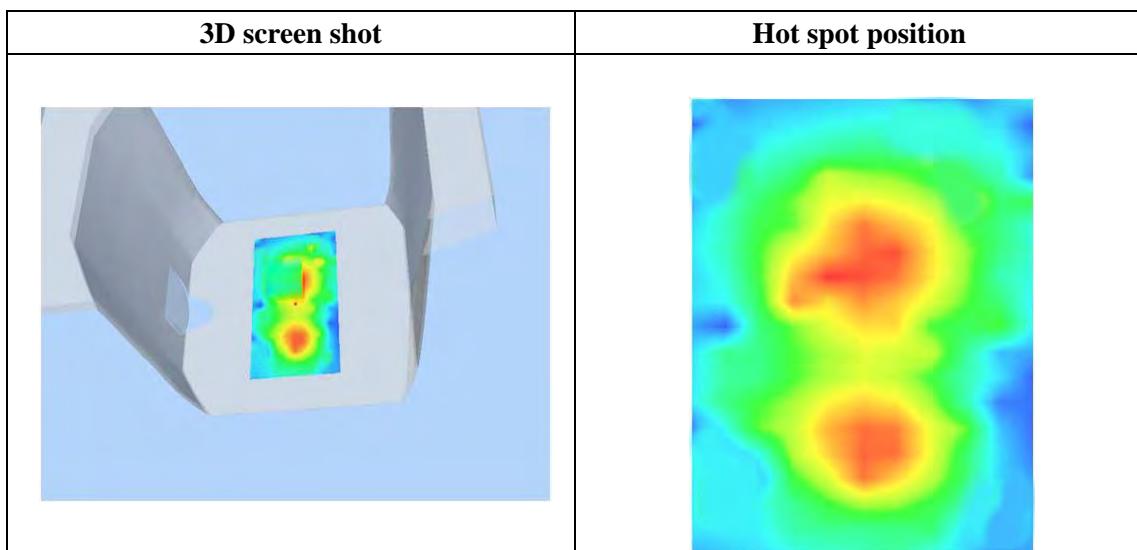
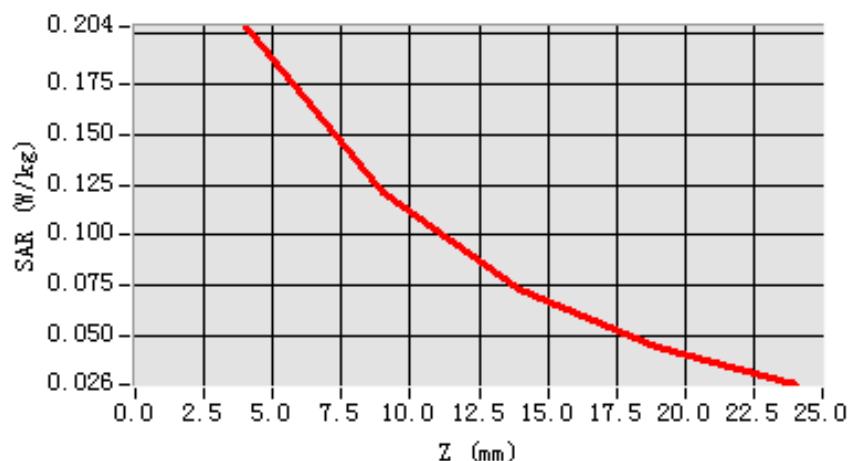
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)



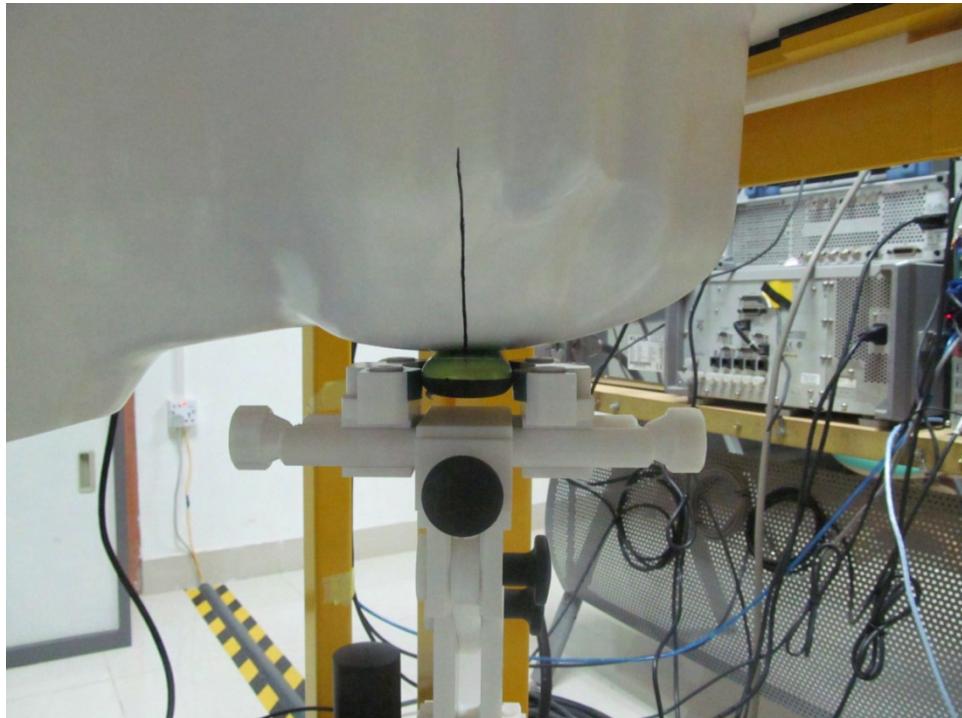
**Maximum location: X=-7.00, Y=16.00**

<b>SAR 10g (W/Kg)</b>	0.157261
<b>SAR 1g (W/Kg)</b>	0.305642

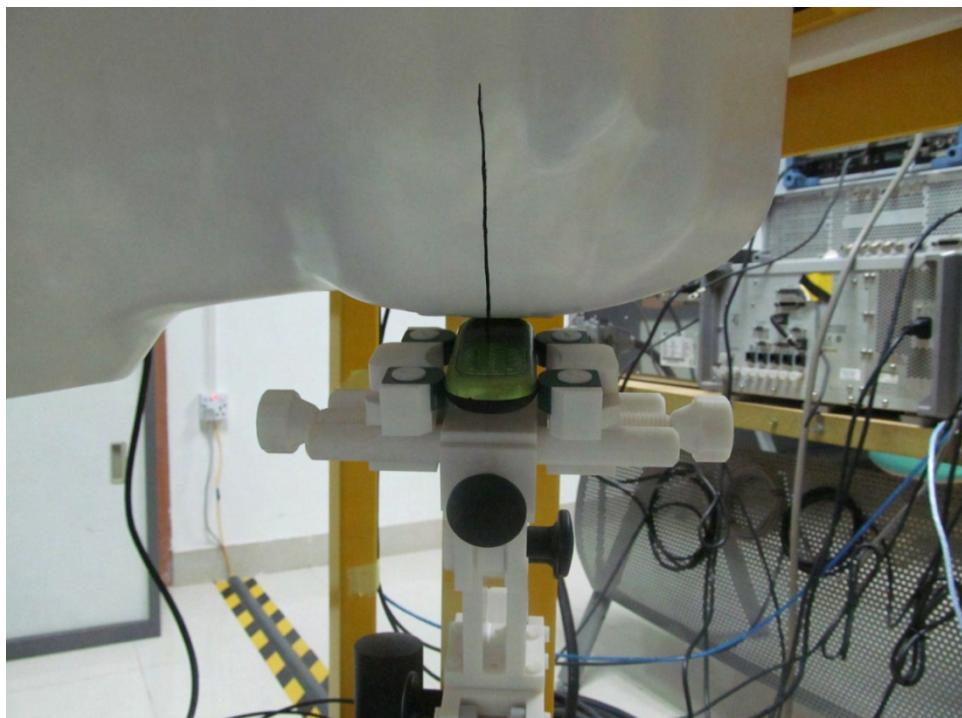
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2015	0.1237	0.08061	0.04127

**SAR, Z Axis Scan (X = -7, Y = 16)**

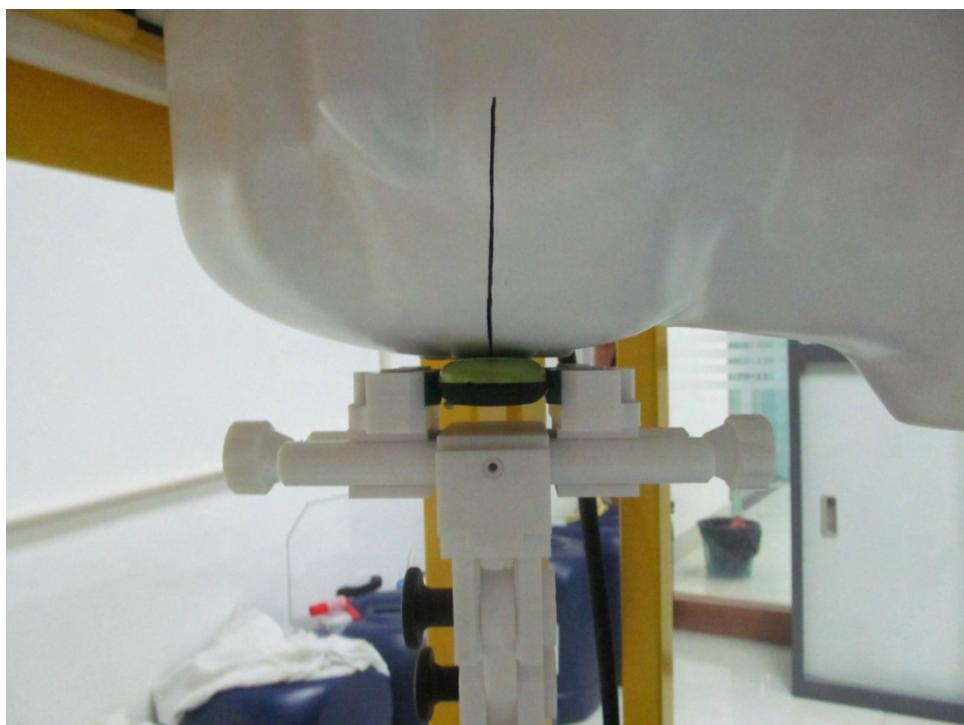
**Appendix C. TEST SETUP PHOTOGRAPHS & EUT PHOTOGRAPS**  
**Test Setup Photographs**  
**LEFT-CHECK TOUCH**



LEFT-TILT 15<sup>0</sup>



RIGHT-CHECK TOUCH



RIGHT-TILT 15°



Body Back15mm



Body Front 15mm



Body back with Headset



### DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note : The position used in the measurement were according to IEEE 1528-2003



**EUT PHOTOGRAPS**  
**TOP VIEW OF SAMPLE**



**BOTTOM VIEW OF SAMPLE**



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



FRONT VIEW OF SAMPLE



BACK VEW OF SAMPLE

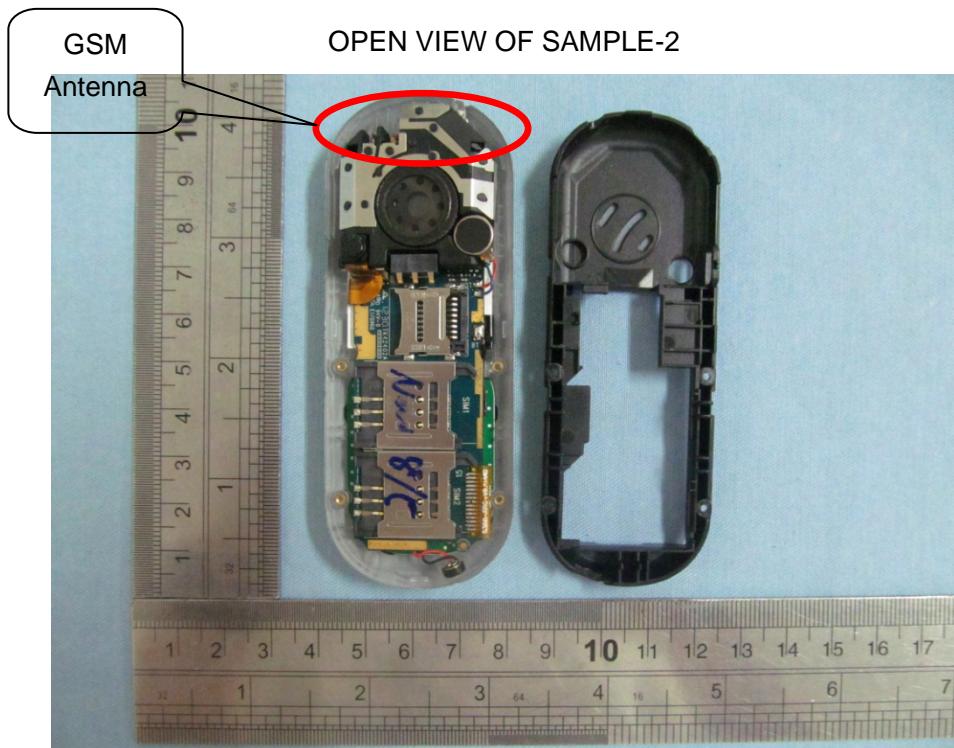


ALL VIEW OF SAMPLE

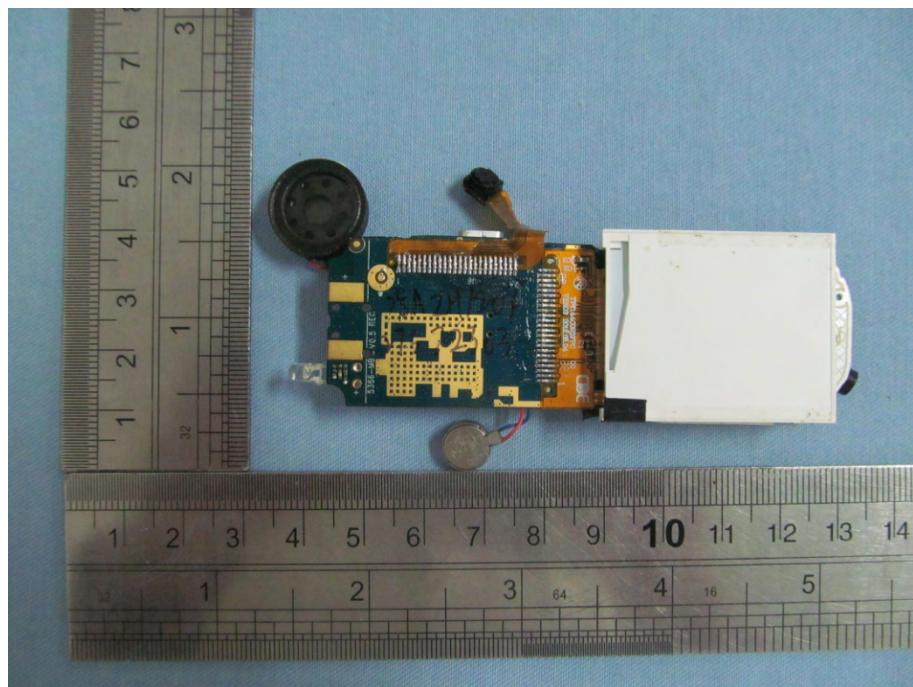


OPEN VIEW OF SAMPLE-1

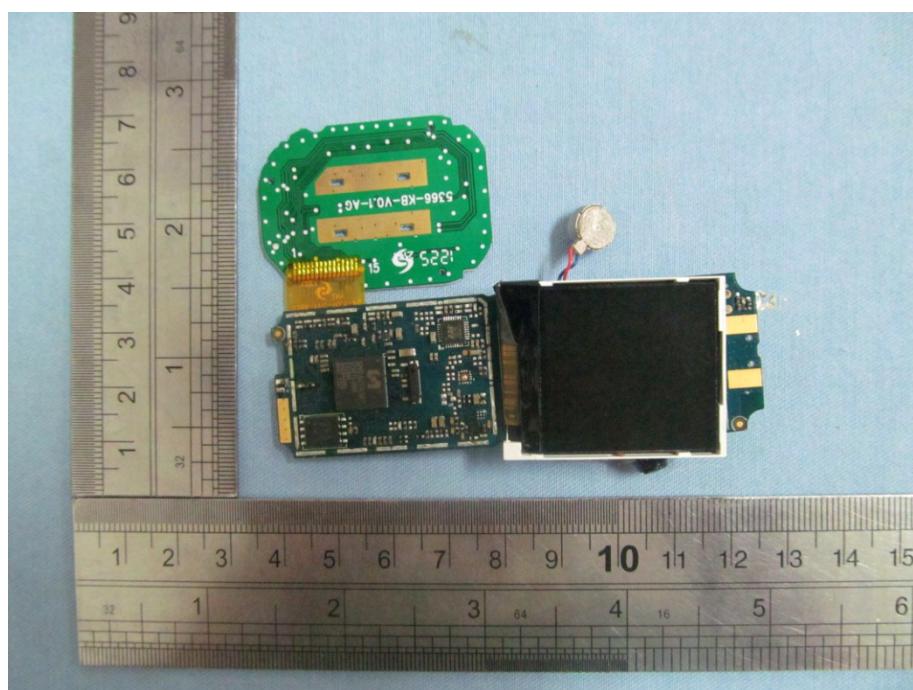




INTERNAL VIEW OF SAMPLE-1



INTERNAL VIEW OF SAMPLE-2



INTERNAL VIEW OF SAMPLE-3

